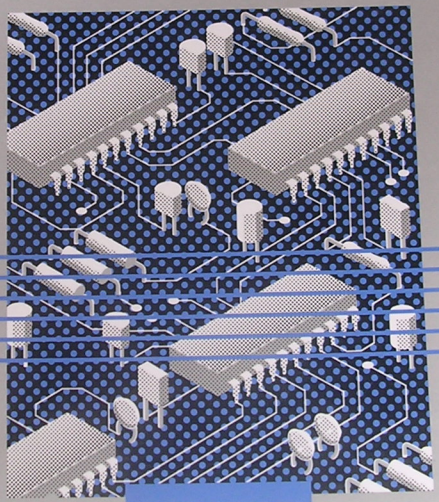
TOYOTA

CROWN

电 路 图

GRS182 系列　　2004年 11月



CROWN
电路图

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A 导言

本手册由以下 13 章组成：

号码	章节	简述
A	索引	本手册内容的索引。
	导言	每一章节的简要解释。
B	如何使用本手册	说明如何使用本手册。
C	故障排除	描述电路的基本检查步骤。
D	缩写词汇	定义本手册中使用的缩写词汇。
E	术语和符号表	定义主要零件的符号和功能。
F	继电器位置分布图	标示电子控制装置、继电器、继电器盒等的位置。 这一章与系统电路紧密相关。
G	电路图	描述零件连接器、接点、接地点等的位置。 这一章与系统电路紧密相关。
H	索引	系统电路的索引。
	系统电路	各系统电路图显示的是从电源开始到接地点的全部电路。根据连接方法通过代码来显示和分类电路连接和它们的位置（参见“如何使用本手册”一章）。本章中也包括用于故障排除的“系统概述”和“维修提示”。
I	接地点	显示本手册中所述的所有零件的接地位置。
J	电源（电流流程图）	描述从电源到各个电力负载的电源分配情况。
K	连接器表	描述本书中出现的零件的连接器形状。 这一章与系统电路紧密相关。
L	连接器零件号	说明本手册中使用的连接器的零件号。
M	总电路图	提供表示电路连接的电路图。

本手册将车辆上安装的电路按所属系统划分，提供关于它们的资料。

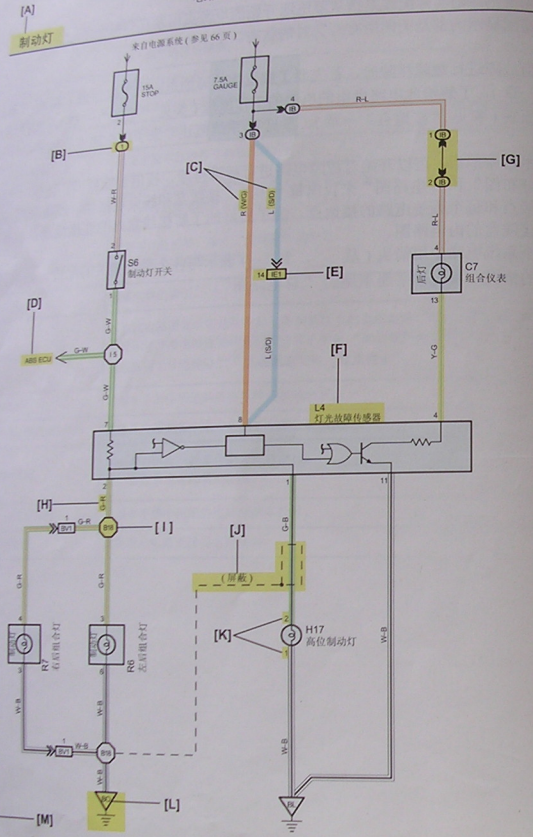
每个系统电路的实际配线是指从蓄电池开始的电源点出发直到每个接地点结束。（所有电路图显示的都是关闭所有开关时的状态。）

对任何故障进行故障排除时，首先要了解发生故障的电路的工作原理（参见“系统电路”一章），了解给此电路供电的电源的工作原理（参见“电源”一章），和接地点的工作原理（参见“接地点”一章）。参见“系统概述”来了解电路工作原理。

了解电路原理后，可以开始对故障电路进行故障排除，找出故障原因。使用“继电器位置分布图”和“电路图”来找出每个零件、接线盒和线束连接器、线束和线束连接器、接点和每个系统电路的接地点。为了更好的了解接线盒内的连接情况，也提供了每个接线盒的内电路图。

在每个系统电路中用箭头（从 ___，到 ___）表示与各个系统相关的配线。如果需要连接的情况，参见本手册末尾的“总电路图”。

*此系统图仅为参考示样图，不同于“系统电路”一章中的实际电路。



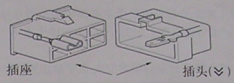
[A] ：系统名称

[B] ：表示继电器盒。无阴影表示且只给出继电器盒号以区别接线盒
例：①表示 1 号继电器盒

[C] ：当车辆型号、发动机类型或规格不同时，用（）来表示不同的配线和连接器。

[D] ：表示相关系统。

[E] ：表示线束和线束连接器。带插头端子的线束用箭头（≫）表示。
外侧数字为引脚号。



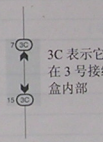
每个线束和线束连接器代码的第一个字母表示组件位置，如“发动机室”的“E”，仪表板和周围区域的“1”和车身及周围区域的“B”。

当两个以上的代码第 1 和第 2 个字母相同时，就增加数字（如 IH1、IH2），表示它们是相同类型的线束和线束连接器。

[F] ：表示零件（所有零件用天蓝色表示）。此代码与零件位置图中所用的代码相同。

[G] ：接线盒（圈内的数字是接线盒号，连接器代码在它旁边）。接线盒用阴影标出，以便将它与其它零件清楚地区别开来。

例：

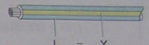


[H] ：表示配线颜色。
配线颜色用字母表示。

B = 黑色	W = 白色	BR = 褐色	
L = 蓝色	V = 紫色	SB = 天蓝色	
R = 红色	G = 绿色	LG = 浅绿色	
P = 粉色	Y = 黄色	GR = 灰色	
O = 橙色			

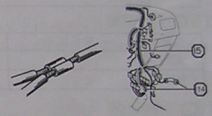
第一个字母表示基本配线颜色，第二个字母表示条纹的颜色。

例：L - Y



[I] ：表示配线接点（发动机室的代码为“E”、仪表板的代码为“1”、车身的代码为“B”）。

例：

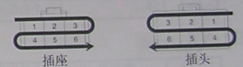


接点 I5 的位置是阴影部分表示。

[J] ：表示屏蔽电缆。

[K] ：表示连接器引脚的编号。
这个编号系统对于插头和插座连接器是不同的。

例：从左上到右下依次标出编号　　从右上到左下依次标出编号



[L] ：表示接地点。
每个接地点的代码的第一个字母表示组件位置，如“发动机室”的“E”，仪表板和周围区域的“1”和车身及周围区域的“B”。

[M] ：页码

[N]

系统概述

始终将电流通过制动灯保险丝加到制动灯开关的端子 2 上。

打开点火开关，电流从仪表保险丝流到灯光故障传感器的端子 8，同时也经过后灯警告灯流到灯光故障传感器的端子 4。

制动灯断开警告

打开点火开关并踩下制动踏板 (制动灯开关 ON)，如果制动灯电路开路，且从灯光故障传感器的端子 7 流到端子 1、2 的电流改变，则灯光故障传感器检测到这个断开，并且灯光故障传感器的警告电路被激活。因此，电流从灯光故障传感器的端子 4 流到端子 11，再流到接地，并点亮后灯警告灯。通过踩下制动踏板，流到灯光传感器的端子 8 的电流保持警告电路 ON，并在关闭点火开关之前一直点亮警告灯。

[O]

维修提示

S6 制动灯开关

2 - 1: 踩下制动踏板时关闭

L4 灯光故障传感器

1、2、7 - 接地 : 制动灯开关打开时大约 12 V

4、8 - 接地 : 点火开关 ON 时大约 12 V

11 - 接地 : 始终导通

[P] ○ : 零件位置

代码	参见页	代码	参见页	代码	参见页
C7	34	L4	36	R7	37
H17	36	R6	37	S6	35

[Q] ⬭ : 继电器盒

代码	参见页	继电器盒 (继电器盒位置)
1	18	1 号继电器盒 (左仪表板支架)

[R] ⬭ : 接线盒和线束连接器

代码	参见页	接线盒和线束 (连接器位置)
IB	20	仪表板配线和仪表板接线盒 (下饰板)
3C	22	仪表板配线和 3 号接线盒 (左仪表板支架)

[S] □ : 连接线束的连接器和线束

代码	参见页	连接线束和线束 (连接器位置)
IE1	42	地板配线和仪表板配线 (左踏脚板)
BV1	50	行李箱配线和地板配线 (左行李箱)

[T] ▽ : 接地点

代码	参见页	接地点位置
BL	50	左侧中立柱下方
BO	50	中间后端板

[U] ◯ : 接点

代码	参见页	带接点的线束	代码	参见页	带接点的线束
I5	44	前围板配线	B18	50	行李箱配线

[N] : 解释系统概述。

[O] : 显示参考值或解释故障排除中要参考的功能。

[P] : 显示系统电路中的零件在车辆上的位置的参考页码。

例 : 零件 “L4”(灯光故障传感器) 在手册的 36 页。

* 代码中的字母是零件的第一个字母，数字表示此零件在以此字母开始的零件中的序列中的位置。

例 : L4
- 4 — 零件是序列中的第四个
- L — 灯光故障传感器

[Q] : 显示系统电路中的继电器盒连接器在车辆上的位置的参考页码。

例 : 在本手册的 18 页中描述了连接器 “1”，它被安装在仪表板的左侧。

[R] : 显示系统电路中的接线盒和线束在车辆上的位置的参考页码。

例 : 连接器 “3C” 连接仪表板配线和 3 号接线盒。在本手册的 22 页中描述了此连接器，它被安装在仪表板的左侧。

[S] : 显示描述线束和线束连接器 (首先显示插座线束，然后显示接头线束) 的参考页码。

例 : 连接器 “IE1” 连接地板配线 (插座) 和仪表板配线 (插头)。在本手册的 42 页中描述了此连接器，它被安装在左侧踏脚板上。

[T] : 显示车辆上接地点位置的参考页码。

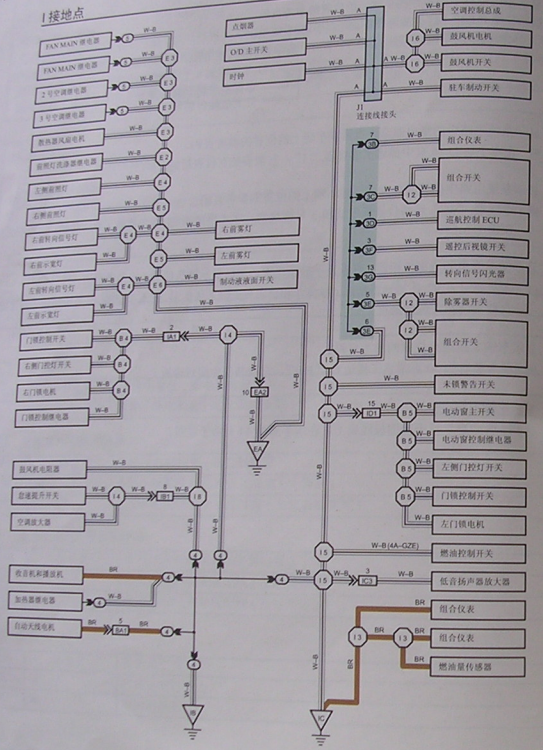
例 : 在本手册的 50 页描述了接地点 “BO”，它安装在中间后端板上。

[U] : 显示车辆上接点位置的参考页码。

例 : 接点 “I5” 位于前围板线束上，在本手册的 44 页给予说明。

接地点电路图显示从所有主要零件到各个接地点的连接情况。对故障接地点进行故障排除时，检查共用接地点的系统电路将有助于快速确认故障接地。也可用此种方法检查接地点（下面用 E7、E8 和 E9 表示）间的关系。

I 接地点

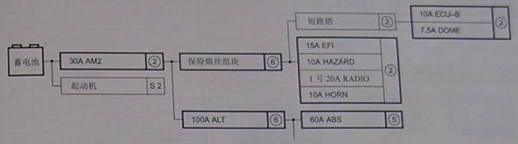


* 此系统图仅为参考示样图，不同于“系统电路”一章中的实际电路。

“电流流程图”一章描述每个电源（保险丝、保险熔丝和断路器）输送电流到哪个零件。在电源电路图中，解释了当给每个系统提供蓄电池电源时的情况。因为所有的系统电路图都与电源有关，因此必须对电源系统有全面的了解。

J 电源（电流流程图）

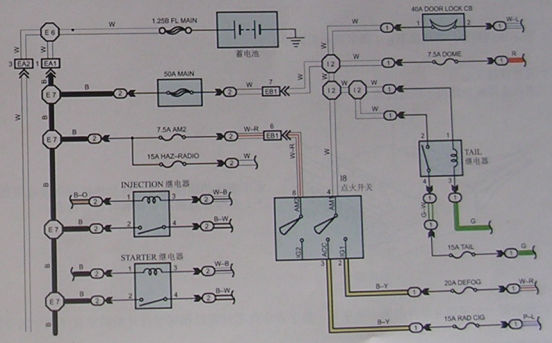
下图显示电流从蓄电池流到每个电源（保险熔丝、断路器、保险丝等）和其它零件的路径。



发动机室继电器盒（参见 20 页）

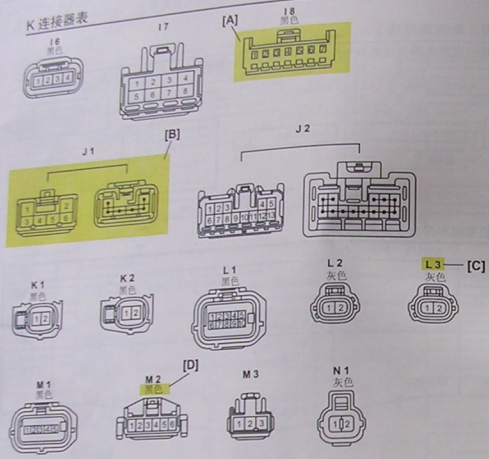
保险丝		系统	页码
20A	STOP	ABS	194
		ABS 和牵引控制	187
		巡航控制	180
		电子控制变速器	166
		多路通信系统	210
10A	DOME	点烟器	214
		组合仪表	230
		前照灯	112
		车内灯	122
		钥匙提醒和座椅安全带警告灯自动关闭	

电源



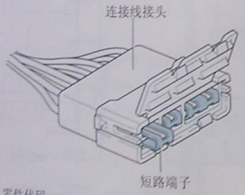
* 此系统图仅为参考示样图，不同于“系统电路”一章中的实际电路。

K 连接器表



[A] ：表示连接到零件的连接器。（数字表示引脚号）

[B] ：连接线接头
表示连接到短路端子的连接器。



本手册中的连接线接头包括连接到许多线束的短路端子。必须在短路端子安装时进行检查。

[C] ：零件代码
代码的第一个字母是零件的第一个字母，数字表示此零件在以相同字母开始的零件序列中的位置。

[D] ：连接器颜色
凡没有标明的连接器都是乳白色。

L 连接器零件号

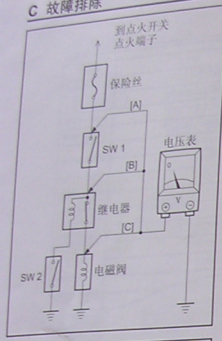
代码	零件名	零件号	代码	零件名	零件号
A 1	空调环境温度传感器	90980–11070	D 4	二极管（门控灯）	90980–11608
A 2	空调冷凝器风扇电机	90980–11237	D 5	二极管（车内灯）	90980–10962
A 3	空调冷凝器风扇电阻器	90980–10940	D 6	二极管（月亮天窗）	90980–11608
A 4	空调冷凝器风扇电阻器	90980–10928	D 7	门锁控制继电器	90980–10848
A 5	空调电磁离合器	90980–11271	D 8	左侧门锁控制开关	90980–11148
A 6	自动变速器油温传感器	90980–11413	D 9	右侧门锁控制开关	
[A]	ABS 执行器[B]	909[C] 151	D10	左侧门控灯开关	90980–11097
A 8	ABS 执行器	90980–11009	D11	右侧门控灯开关	
A 9	左前 ABS 速度传感器	90980–10941	D12	左前门门控灯开关	90980–11156
A10	右前 ABS 速度传感器	90980–11002	D13	右前门门控灯开关	
A11	左前空气囊传感器	90980–11856	D14	左后门门控灯开关	
A12	右前空气囊传感器		D15	右后门门控灯开关	
A13		90980–11194	D16		90980–11170
		90980–11[illegible]			

[A] ：零件代码

[B] ：零件名

[C] ：零件号
显示丰田零件号。

不能完全提供上述所有的连接器零件号。



电压检查

(a) 在如下情况下检查点存在电压。

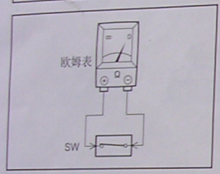
例：

[A] - 点火开关 ON

[B] - 点火开关和 SW 1 打开

[C] - 点火开关、SW 1 和继电器打开 (SW 2 关闭)

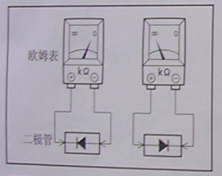
(b) 用电压表将负极导线连接到好的接地点或蓄电池负极端子上，正极导线连接到连接器或组件端子上。
用测试灯代替电压表也能进行电压检查。



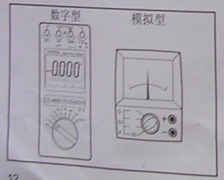
导通性和电阻检查

(a) 断开蓄电池端子或配线，从而使检查点间没有电压。

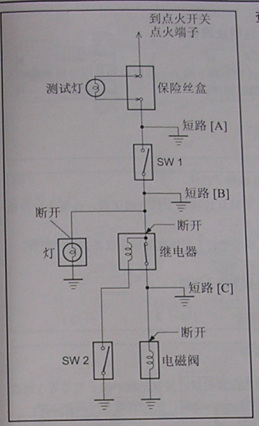
(b) 用欧姆表的两根导线接触检查点两端。



如果电路有二极管，则反接两根导线，再次进行检查。
将负极导线接触二极管正极侧，正极导线接触负极侧，应显示导通。
如果将两根导线反接，则应显示不导通。



(c) 用高阻抗 (最小 10 kΩ/V) 电压表 / 欧姆表对电路进行故障排除。



查找短路电路

(a) 拆下熔断的保险丝并断开保险丝的所有载荷。

(b) 在保险丝的位置连接测试灯。

(c) 在如下情况下测试灯亮。

例：

[A] - 点火开关 ON

[B] - 点火开关和 SW 1 打开

[C] - 点火开关、SW 1 和继电器开 (连接继电器) 和 SW 2 关闭 (或断开 SW 2)

(d) 查看测试灯时，断开和重新连接连接器。
短路位于测试灯仍点亮的连接器和测试灯熄灭的连接器之间。

(e) 沿车身轻微晃动故障配线以准确找出短路位置。

注意：

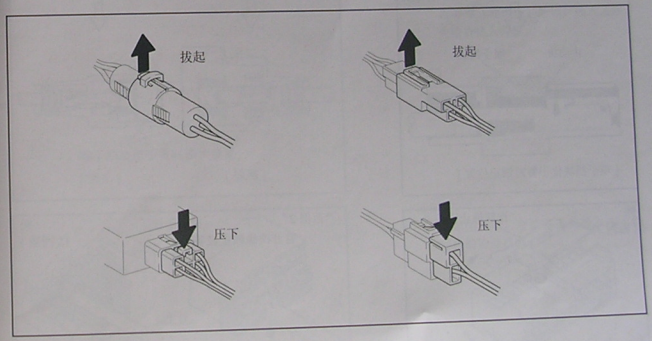
(a) 除非绝对有必要不要打开盖或 ECU 的壳。(如果接触 IC 端子，静电可能会损坏 IC。)

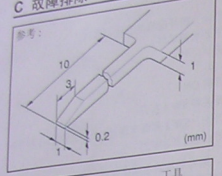
(b) 更换数字仪表的内部机构 (ECU 部分) 时，小心身体或衣物的任一部分不要与更换零件 (备用零件) IC 等的导线的端子接触。

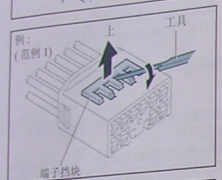
插头和插座连接器的断开

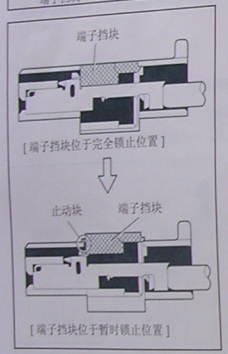
为了扯开连接器，只是拉连接器自身，而不是线束。

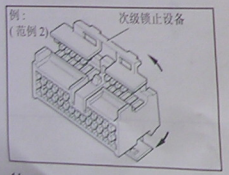
提示：扯开之前，先要检查要断开的是哪类连接器。











如何更换端子
(带端子挡块或次级锁止设备)

1. 准备专用工具

   提示：为了从连接器上拆下端子，请建构和使用专用工具或左图所示的类似物体。

2. 断开连接器

3. 分开次级锁止设备或端子挡块。

   (a) 释放端子锁止夹或从连接器上拆下端子前，必须先分开锁止设备。

   (b) 使用专用工具或端子起子开锁次级锁止设备或端子挡块。

小心：

不要从连接器体上拆下端子挡块。

[A] 非防水型连接器

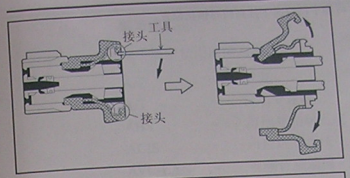
提示：探针插入位置根据连接器形状 (端子数等等) 而改变，所以，插入之前，先检查插入位置。

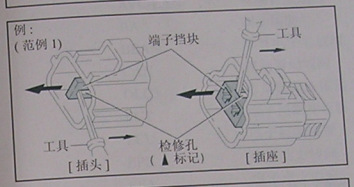
“范例 1”

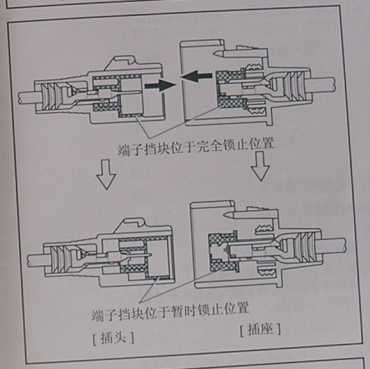
将端子挡块升高到暂时锁止位置。

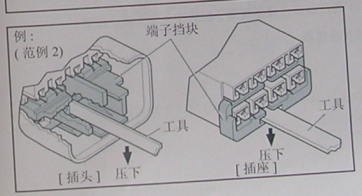
“范例 2”

打开次级锁止设备。









[B] 防水型连接器

提示：端子挡块颜色根据连接器体颜色不同而不同。

例：

端子挡块 ：连接器体

黑色或白色 : 灰色

黑色或白色 : 深灰色

灰色或白色 : 黑色

“范例 1”

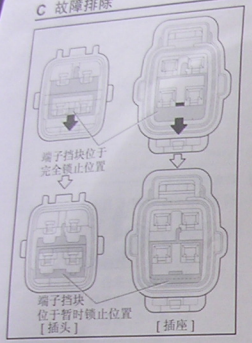
端子挡块被拔起到暂时锁止位置的类型 (拔起型)。

将专用工具插入端子挡块检修孔 (▲ 标记) 并将端子挡块拉起到暂时锁止位置。

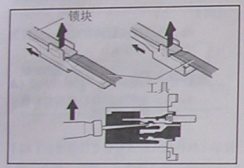
提示：探针插入位置根据连接器形状 (端子数等等) 而改变，所以，插入之前，先检查插入位置。

“范例 2”

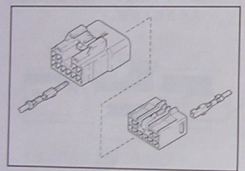
如图所示，直接将工具插入端子挡块的检修孔内。



将端子挡块向下推到暂时锁止位置。



(c) 从端子上释放锁块，并从后部拉出端子。

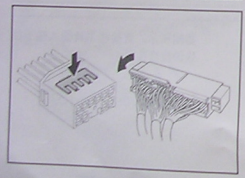


4. 将端子安装到连接器上

(a) 插入端子。

提示：

1. 确保端子被正确定位。
2. 插入端子直到锁块紧固锁止。
3. 将带端子挡块的端子插入到暂时锁止位置。



(b) 将次级锁止设备或端子挡块推入完全锁止位置。

5. 连接连接器

缩写词汇

本手册中使用的缩写词汇如下。

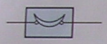
A/C	=	空调
A/T	=	自动变速器
ABS	=	防抱死制动系统
ACIS	=	声控进气系统
AVC-LAN	=	视频音频通信 - 局域网
BA	=	制动辅助
BEAN	=	车身电子局域网
CAN	=	控制器局域网
DLC3	=	数据链路连接器 3
ECT	=	电子控制变速器
ECU	=	电子控制装置
EPS	=	电机动力转向
ESA	=	电子点火提前
ETCS-i	=	智能电子节气门控制系统
EVAP	=	燃油蒸汽排放
IC	=	集成电路
J/B	=	接线盒
LH	=	左侧
R/B	=	继电器盒
RH	=	右侧
SFI	=	连续多点燃油喷射
SRS	=	乘员保护辅助系统
SW	=	开关
TEMP.	=	温度
TRC	=	牵引控制
VSC	=	车辆稳定控制
VSV	=	真空控制阀
VVT-i	=	智能可变气门正时
w/	=	带
w/o	=	不带

* 组件中给出的名称是端子名称（端子代码），但不能被认为是缩写词汇。

蓄电池
存储化学能并将之转化为电能。给汽车的各个电路提供直流电。

电容器（电容器）
小型临时电压保持装置。

点烟器
电阻加热元件。

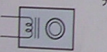


断路器
断路器是一根可重新使用的保险丝，如果流经的电流过强，断路器将变热并断开。冷却之后一些装置自动重新设定，而另一些必须手动重新设定。

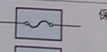
二极管
仅允许电流单向流通的半导体。

二极管，稳压二极管
此二极管仅直到规定电压时允许电流单向流通并阻滞逆向流动。超过该电压，则由其分流余压。它可以简单地起调压器的作用。

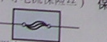
光敏二极管
光敏二极管是根据光线的多少控制电流的半导体。



分电器，IIA
将高压电流从点火线圈引导到每个火花塞。



（中等电流保险丝）



（强电流保险丝或保险熔丝）

保险丝
这是一薄的金属片，如果太多的电流经过，就会熔断，从而切断电流来保护电路免受损坏。

保险熔丝
这是位于强电流电路中的粗导线，如果电流超载将会熔断，从而保护电路。数字表示导线的横截面面积。

接地
指配线连接车身的点，从而给电路提供一个回路；如果没有接地，则电流不能流动。

1. 单丝
2. 双丝

前照灯
电流导致前照灯灯丝加热并发光。前照灯即可以有一根 (1) 灯丝也可以有两根 (2) 灯丝

喇叭
发出高频音频信号的电子设备。

点火线圈
将低压直流电转换为点燃火花塞的高压点火电流。

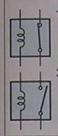
灯
流经灯丝的电流加热灯丝并使之发光。

LED（发光二极管）
基于电流，这些二极管不同于一般的灯，它发光但不产生热量。

模拟型仪表
电流将起动一个电磁线圈，这将会导致探针的移动，从而，提供一个相对于背景刻度的相关显示。

数字型仪表
电流起动 LED、LCD 或荧光显示器的一个或数个，将提供一个相关或数字的显示。

电机
这是将电能转换为机械能的电源装置，特别是对于旋转运动。

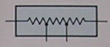


1. 正常关闭
2. 正常打开

继电器
基本上，这是可以正常关闭 (1) 或打开 (2) 的电子操作开关。
流经小线圈的电流将产生电磁场，会打开或关闭附属的开关。

双投继电器
这是电流流经一组接点或其它组的继电器。

电阻器
这是具有固定电阻的电子元件，安装在电路中来将电压降低到规定值。



抽头电阻器
这是有两个或多个不同不可调电阻值的电阻器。

滑变电阻器或可变电阻器
这是可调电阻比的可控电阻器。
有时也将之称为电位计或变阻器。

传感器（热敏电阻）
这个电阻器可以根据温度而改变它的电阻。

（舌簧开关型）

速度传感器
此传感器使用电磁脉冲来打开和关闭产生起动其它部件的信号的开关。

短路销
用于在接线盒中提供不可断的连接。

电磁阀
这是电磁线圈，当电流流经时，会形成一个磁场来移动活塞等等。

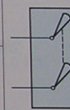
扬声器
这是可以根据电流产生声波的机电设备。

手动开关

1. 正常打开
2. 正常关闭

打开或关闭电路，从而停止 (1) 或流通 (2) 电流。

双投开关
这是电流持续流经一组接点或其它组的开关。



点火开关
这是键操作开关，它有数个位置允许各个电路变为可操作的，特别是初级点火电路。

刮水器停止开关
关闭刮水器开关时，此开关自动经刮水器返回到停止位置。

晶体管
这是典型的被用作电子式继电器的固体电路设备；根据“基数”提供的电压切断或流通电流。

配线

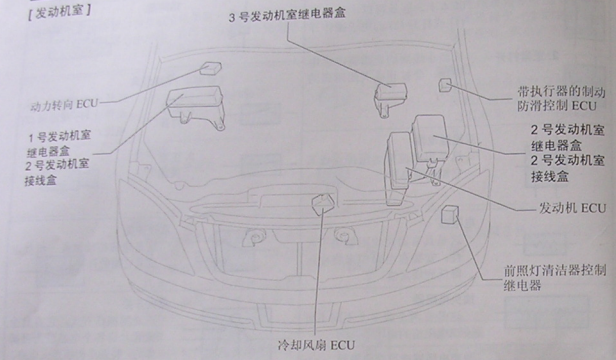
(1) 没有连接

(2) 接合

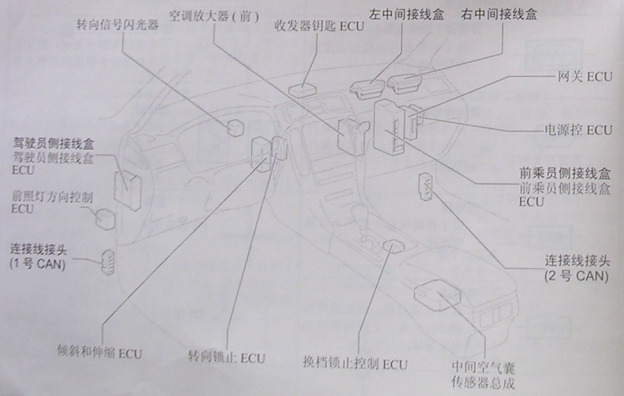
在电路图中，配线通常用直线表示。
在汇合处没有黑色圆点的交叉配线 (1) 没有接合。
在汇合处有黑色圆点或八角形 (○) 标记的交叉配线 (2) 结合。

F 继电器位置分布图

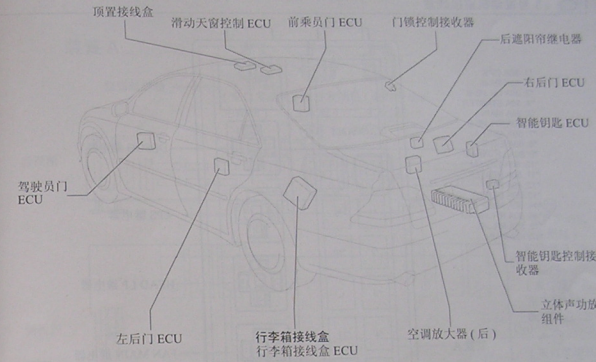
[发动机室]



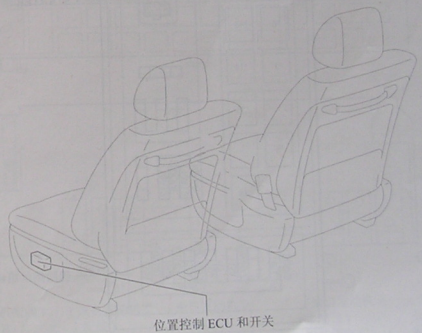
[仪表板]



[车身]



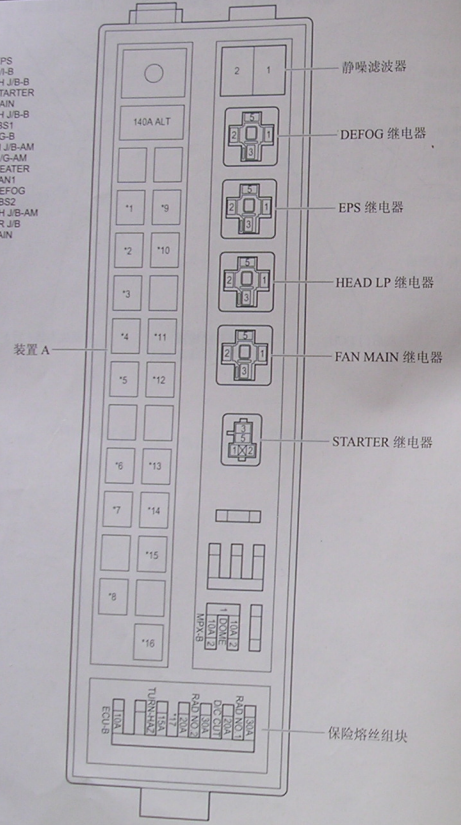
[座椅]



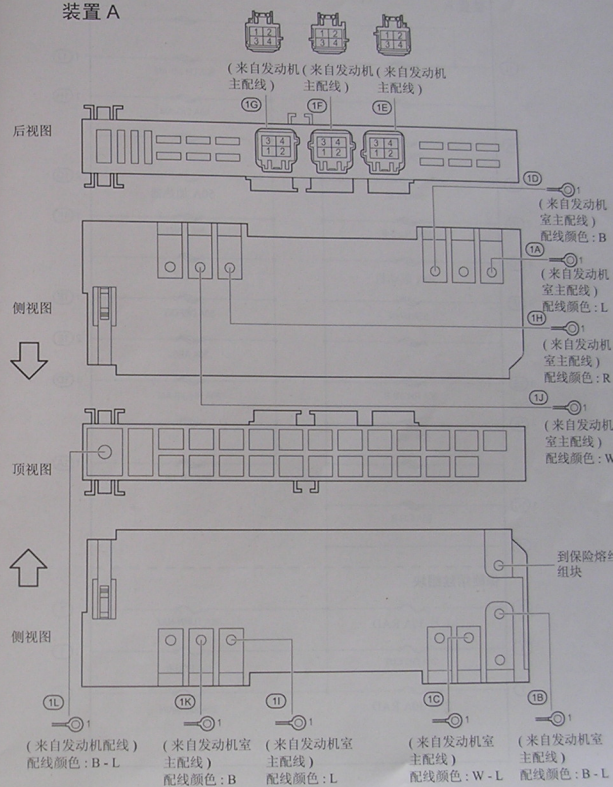
F 继电器位置分布图

① : 1 号发动机室继电器盒 ○ : 1 号发动机室接线盒	前悬架右支撑罩附近 (参见 20 页)

*1: 80A EPS
*2: 60A P/I-B
*3: 30A LH J/B-B
*4: 30A STARTER
*5: 30A MAIN
*6: 30A RH J/B-B
*7: 50A ABS1
*8: 60A E/G-B
*9: 80A LH J/B-AM
*10: 60A E/G-AM
*11: 50A HEATER
*12: 40A FAN1
*13: 50A DEFOG
*14: 30A ABS2
*15: 80A RH J/B-AM
*16: 80A RR J/B
*17: IG2 MAIN

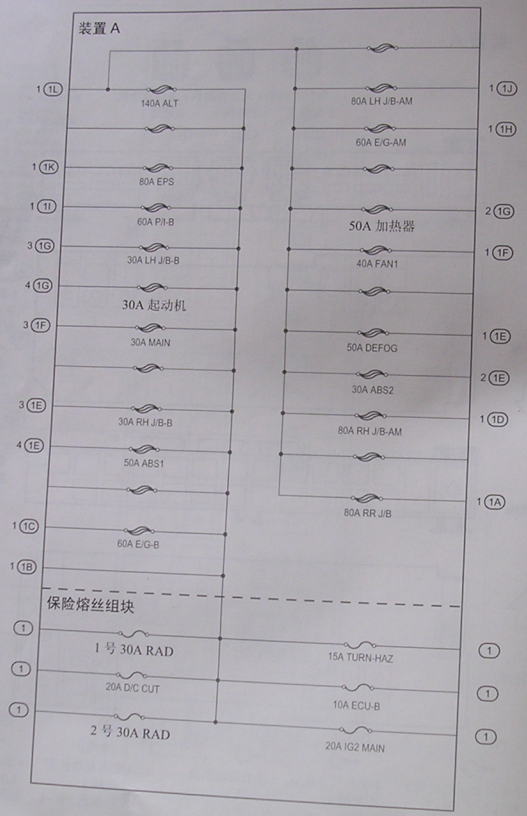


装置 A



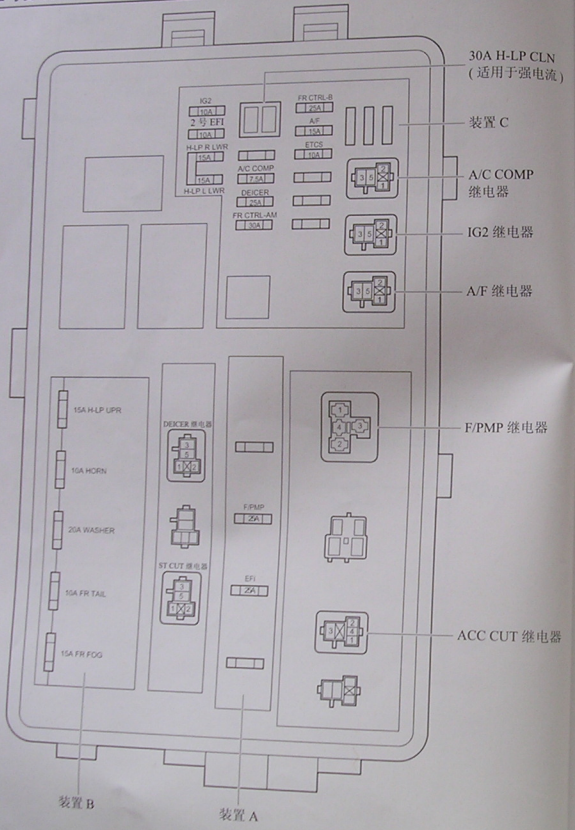
F 继电器位置分布图

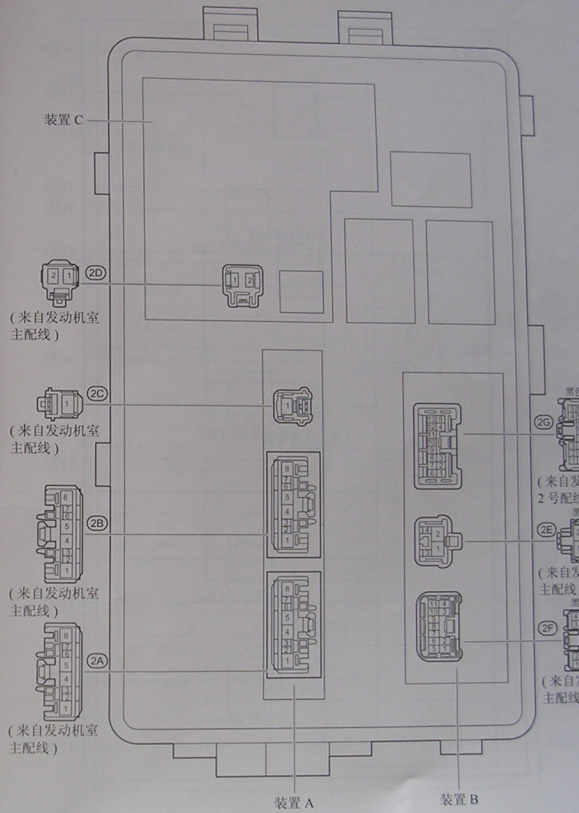
[1 号发动机室继电器盒和 1 号发动机室接线盒内电路]



F 继电器位置分布图

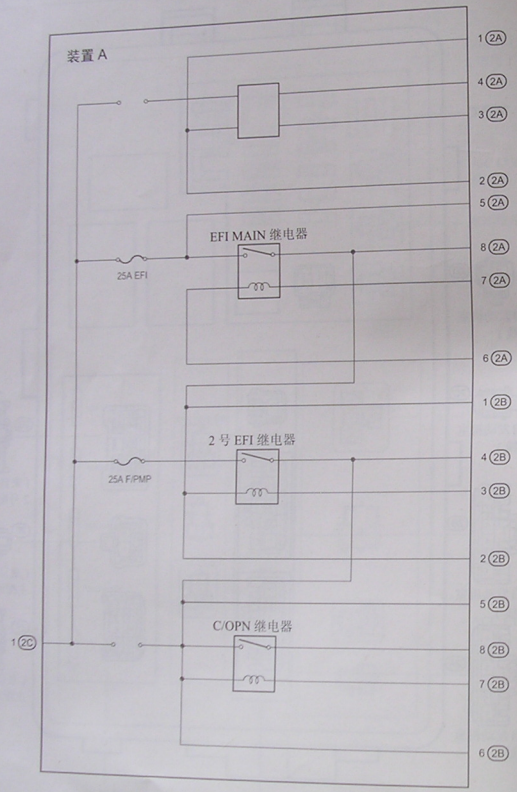
① : 2 号发动机室继电器盒 ⬭ : 2 号发动机室接线盒	左发动机室 (参见 20 页)

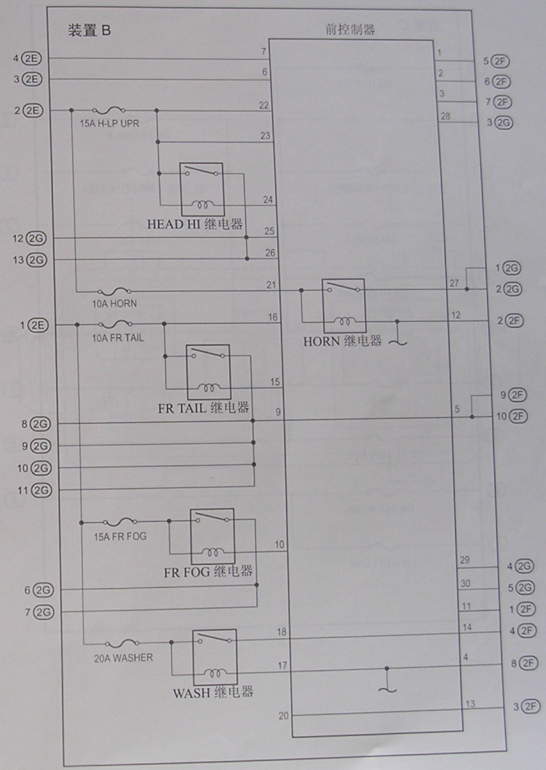




F 继电器位置分布图

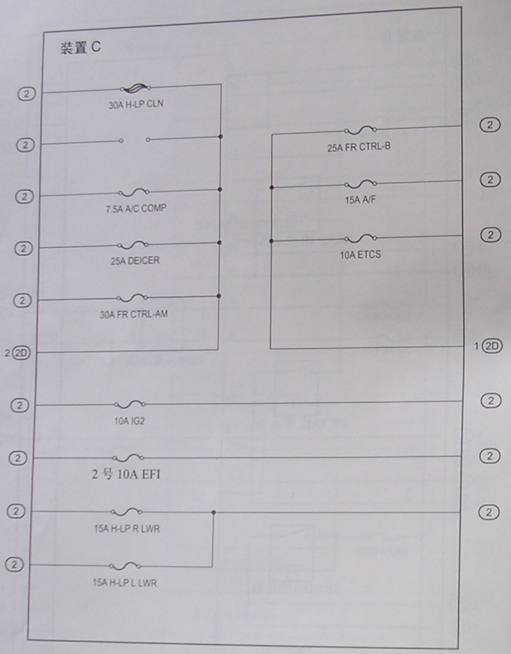
[2 号发动机室继电器盒和 2 号发动机室接线盒内电路]



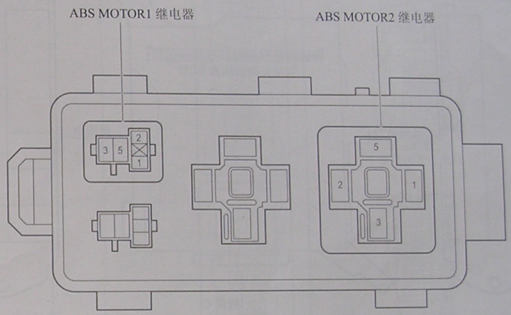


F 继电器位置分布图

[2 号发动机室继电器盒和 2 号发动机室接线盒内电路]



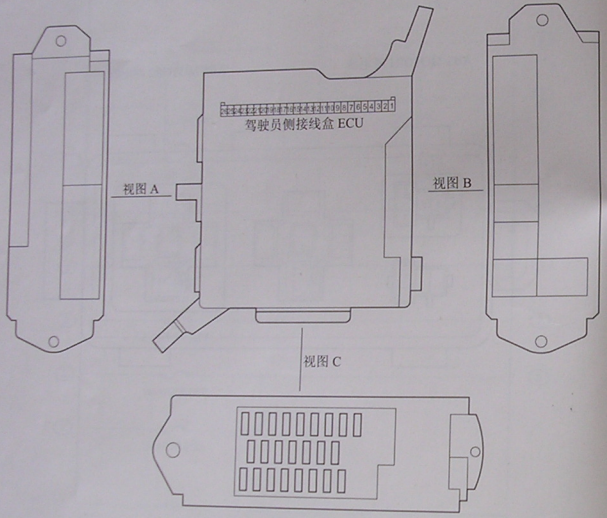
③ ：3 号发动机室继电器盒	前悬架左支撑罩附近 (参见 20 页)



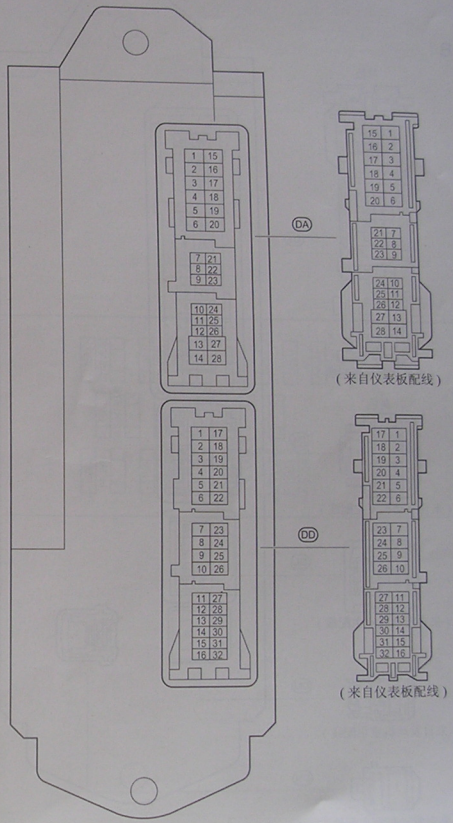
F 继电器位置分布图

：驾驶员侧接线盒

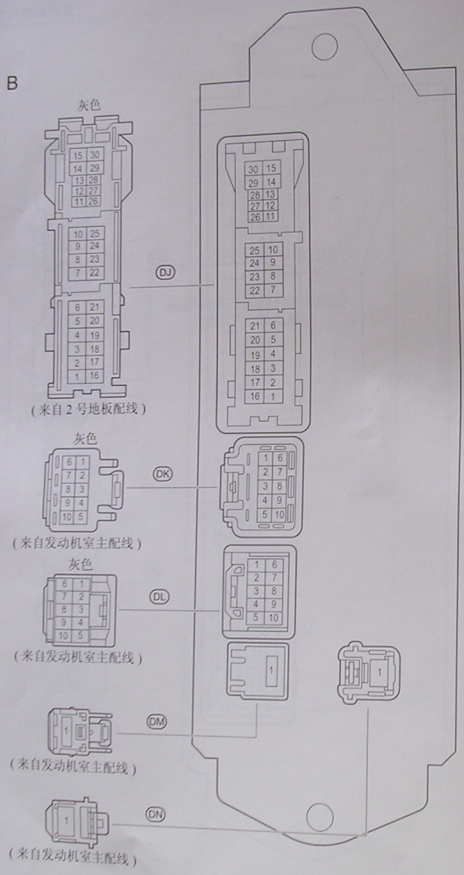
左前围板侧板（参见 20 页）



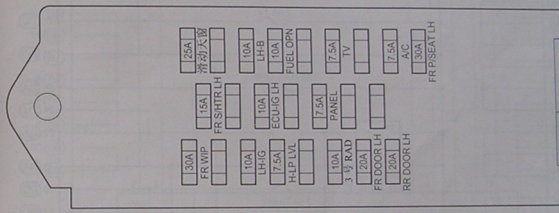
视图 A



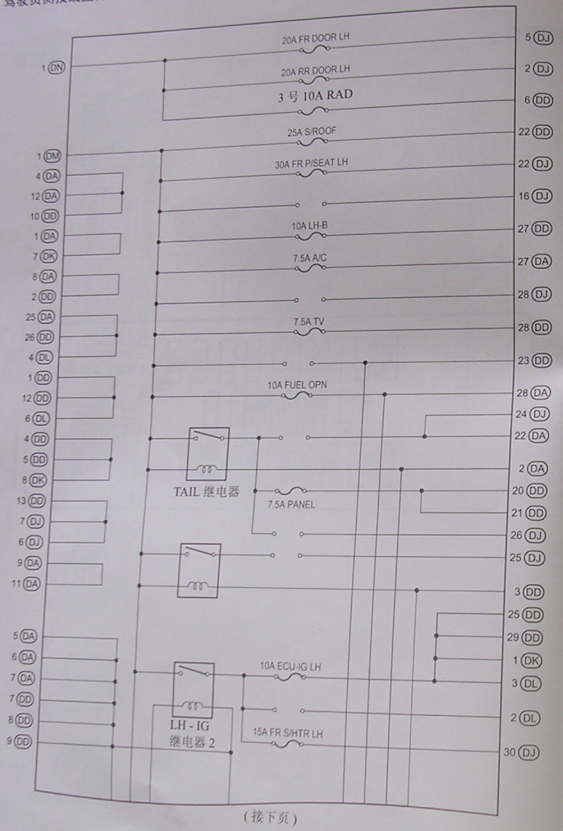
视图 B


灰色
(来自 2 号地板配线)
DJ
灰色
DK
(来自发动机室主配线)
灰色
DL
(来自发动机室主配线)
DM
(来自发动机室主配线)
DN
(来自发动机室主配线)

视图 C


25A 滑动门电机
10A LH-B
10A FUEL OPN
7.5A TV
7.5A A/C
30A FR P/SEAT LH
15A FR SHTR LH
10A ECU-IG LH
7.5A PANEL
30A FR WIP
10A LH-IG
7.5A H-LP LVL
10A 3 号 RAD
20A FR DOOR LH
20A RR DOOR LH

[驾驶员侧接线盒内电路]



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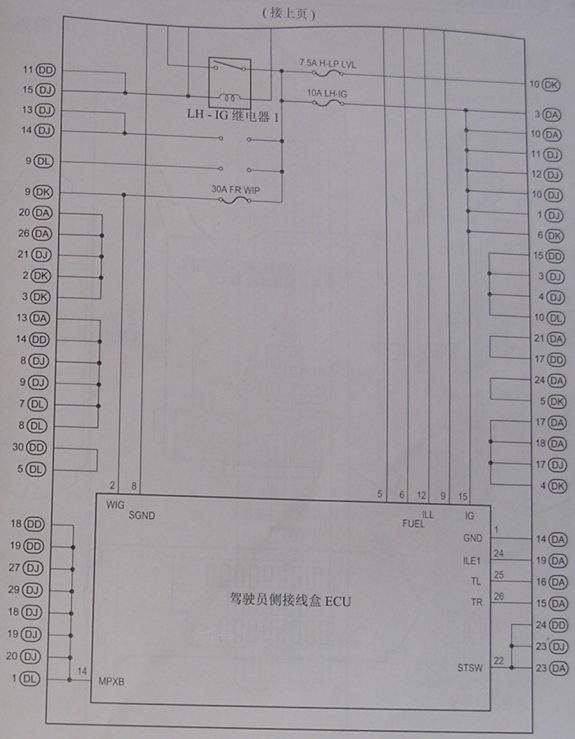
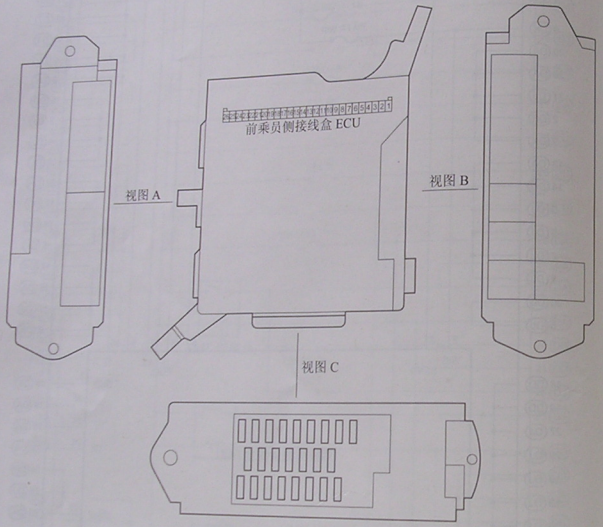
(接上页)



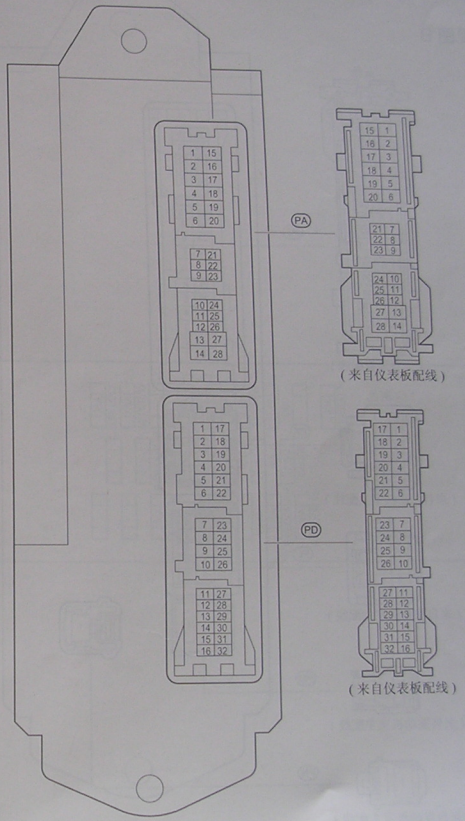
F 继电器位置分布图

：前乘员侧接线盒

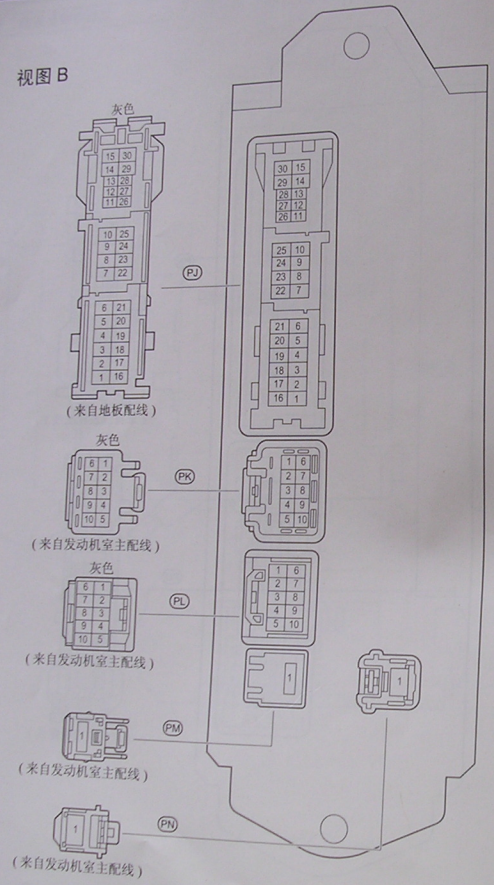
右前围板侧板（参见 20 页）



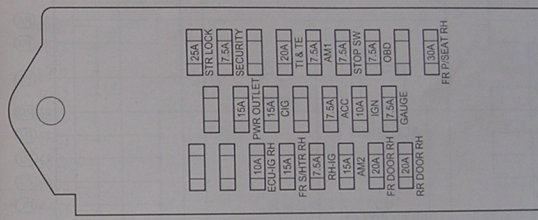
视图 A



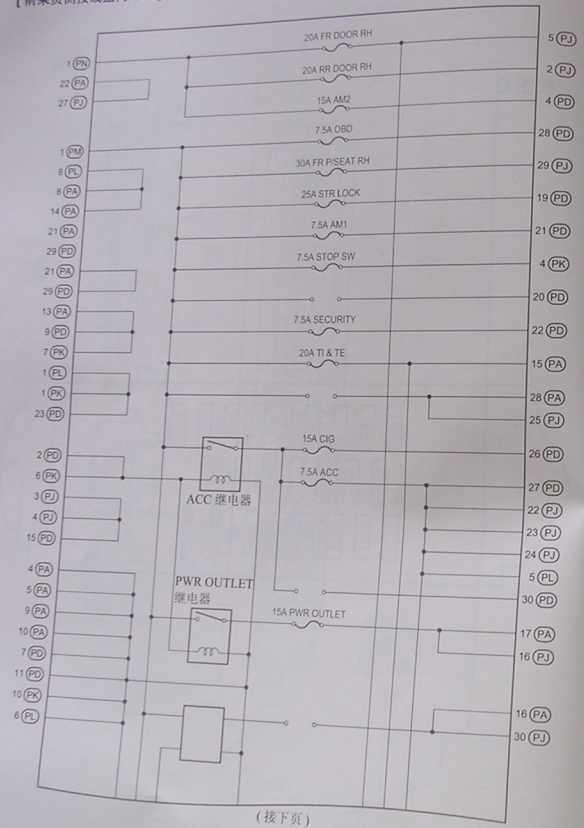
视图 B


灰色
PJ
（来自地板配线）
灰色
PK
（来自发动机室主配线）
灰色
PL
（来自发动机室主配线）
PM
（来自发动机室主配线）
PN
（来自发动机室主配线）

视图 C

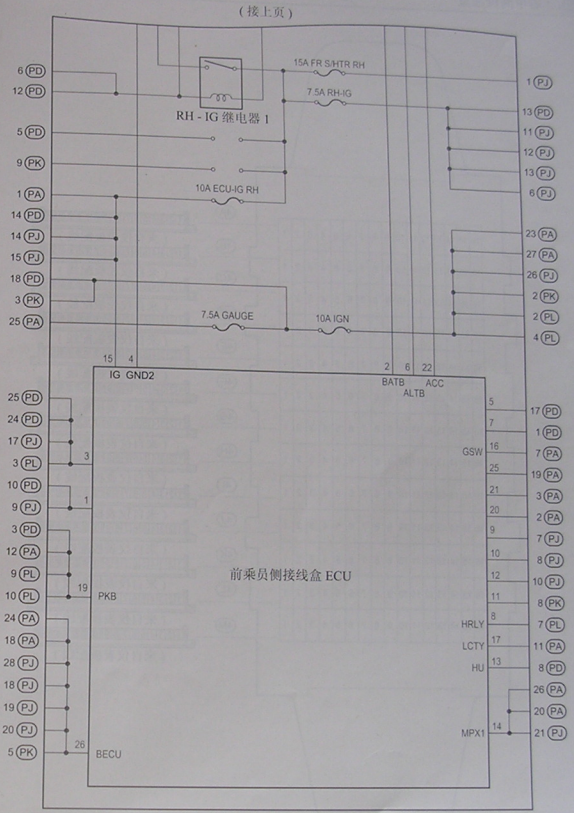

25A STR LOCK
7.5A SECURITY
20A TI& TE
7.5A AM1
7.5A STOP SW
7.5A OBD
30A FR P/SEAT RH
15A PWR OUTLET
15A CIG
7.5A ACC
10A IGN
7.5A GAUGE
10A ECU-IG RH
15A FR SHTR RH
7.5A RH-IG
15A AM2
20A FR DOOR RH
20A RR DOOR RH

[前乘员侧接线盒内电路]



(接下页)

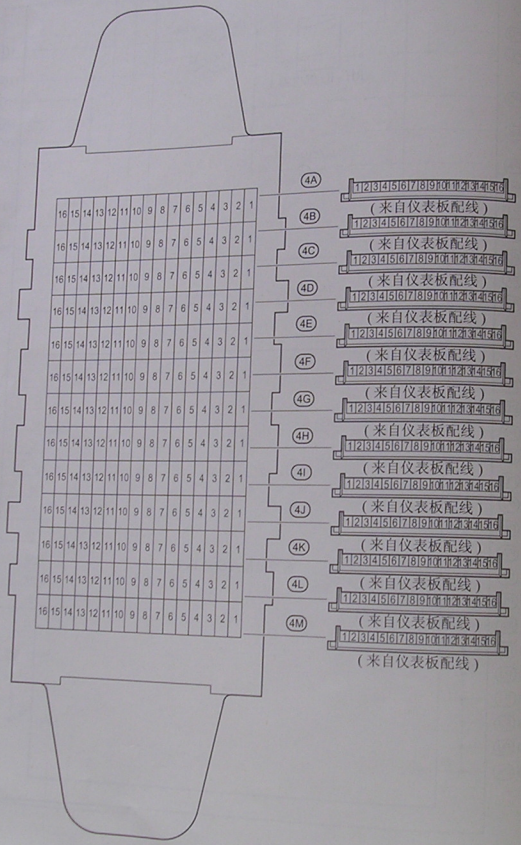
(接上页)



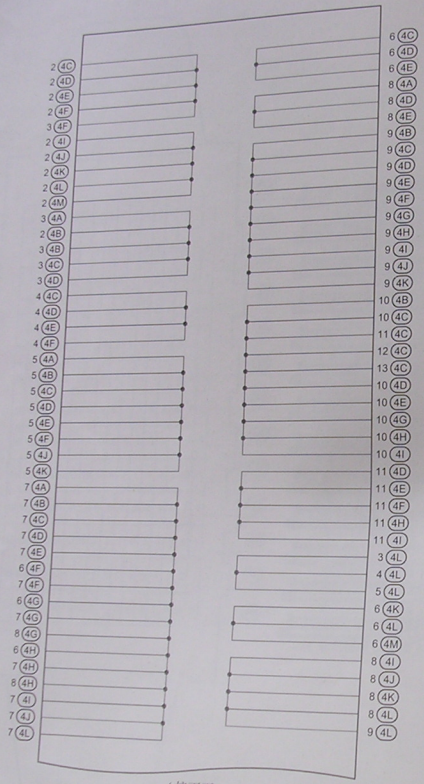
F 继电器位置分布图

：右中间接线盒

仪表板加强件右侧（参见 20 页）

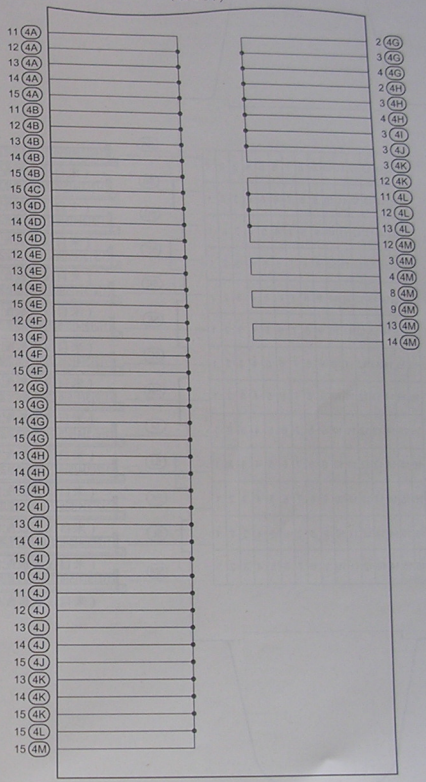


[右中间接线盒内电路]



(接下页)

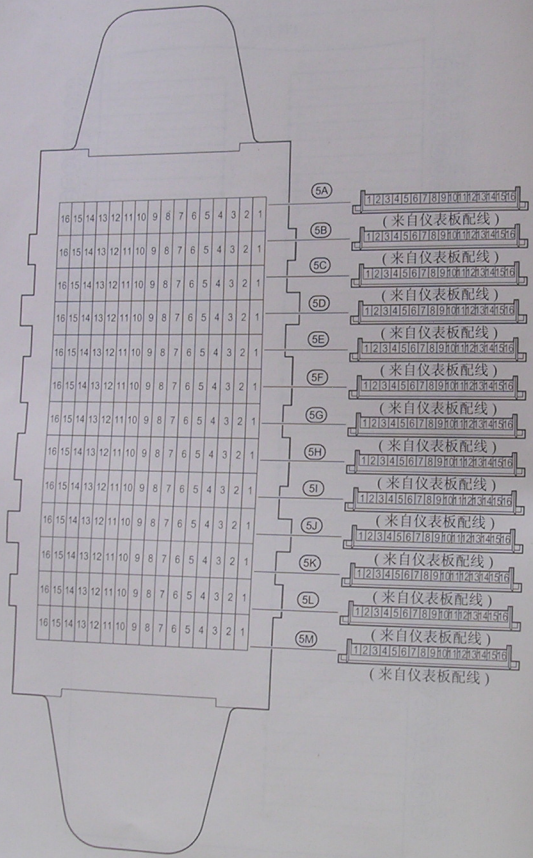
(接上页)



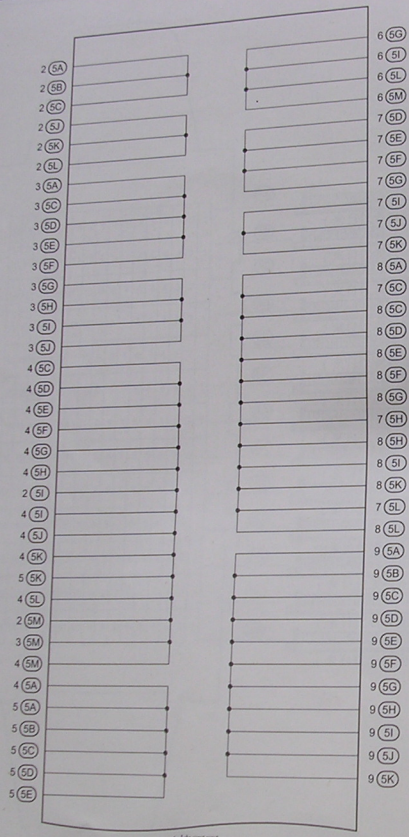
F 继电器位置分布图

：左中间接线盒

仪表板加强件右侧（参见 20 页）

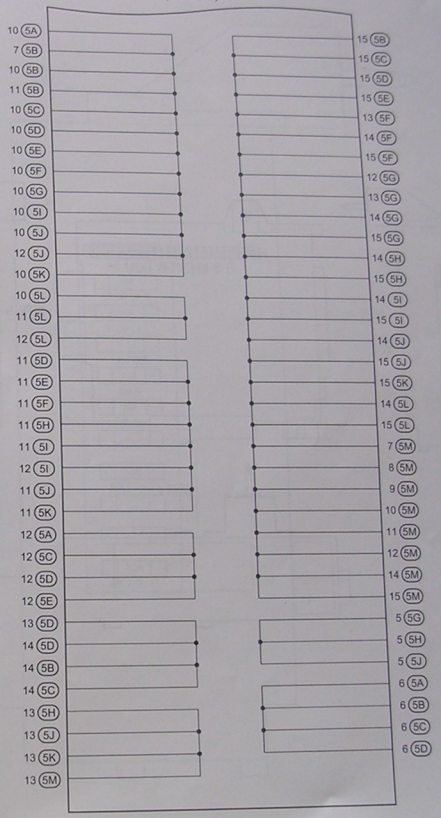


[左中间接线盒]



(接下页)

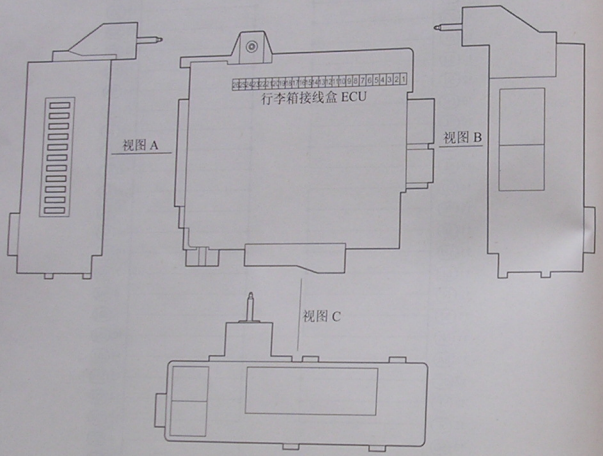
(接上页)



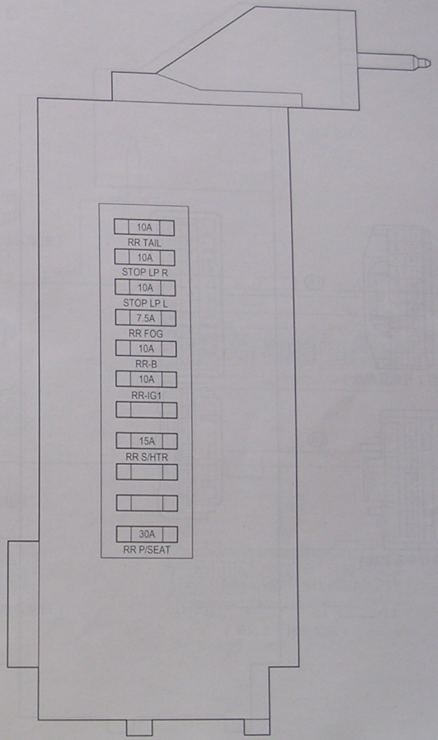
F 继电器位置分布图

：行李箱接线盒

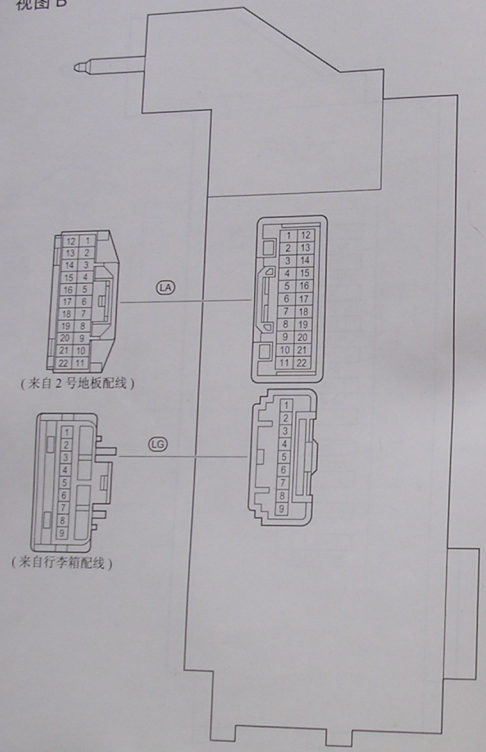
行李箱左侧（参见 21 页）



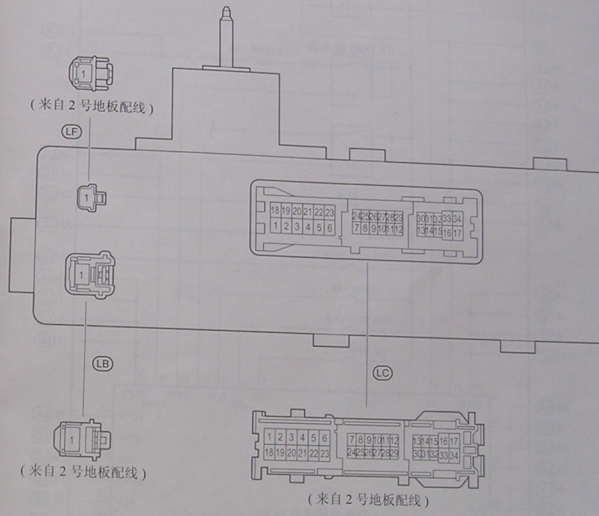
视图 A



视图 B

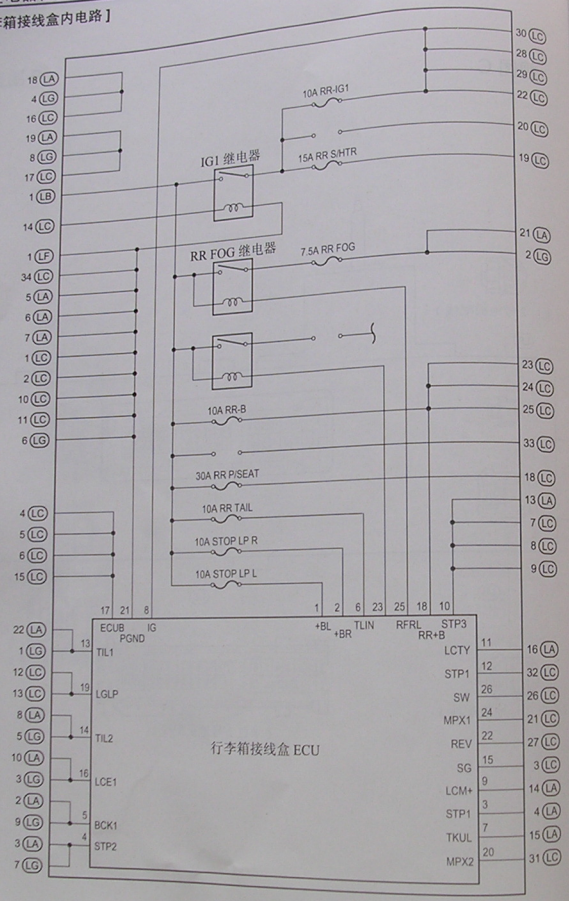


视图 C



F 继电器位置分布图

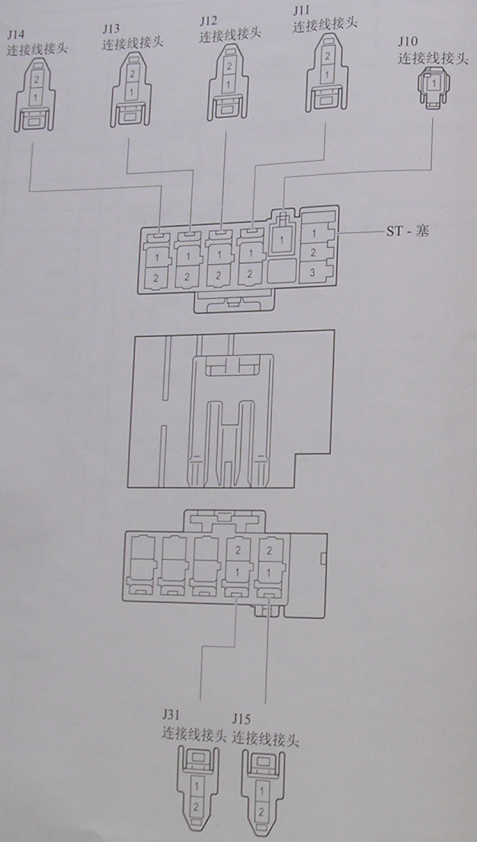
[行李箱接线盒内电路]



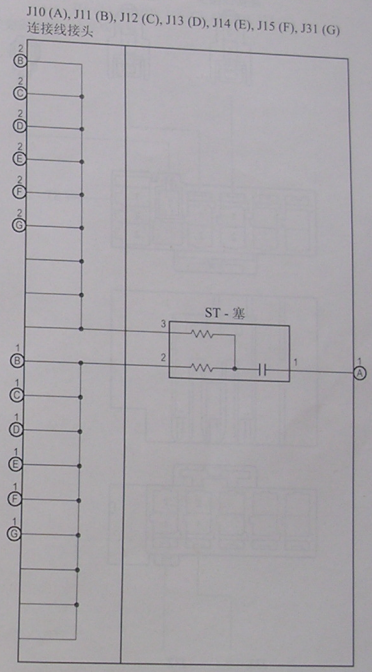
F 继电器位置分布图

连接线接头　　左踏脚板 (参见 20 页)

(1 号 CAN)



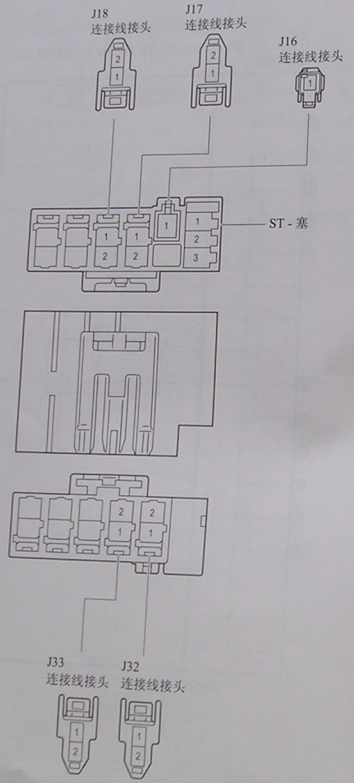
[连接线接头 (1 号 CAN) 内电路]



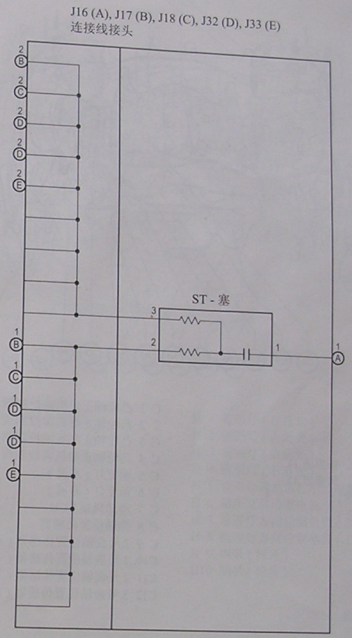
F 继电器位置分布图

连接线接头 (2 号 CAN)

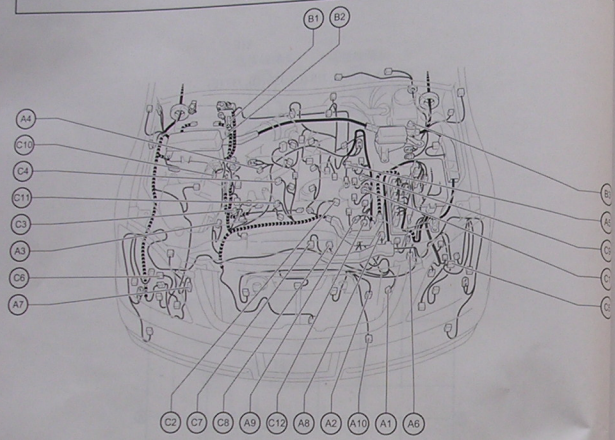
右踏脚板 (参见 20 页)



[连接线接头 (2 号 CAN) 内电路]



发动机室内零件的位置

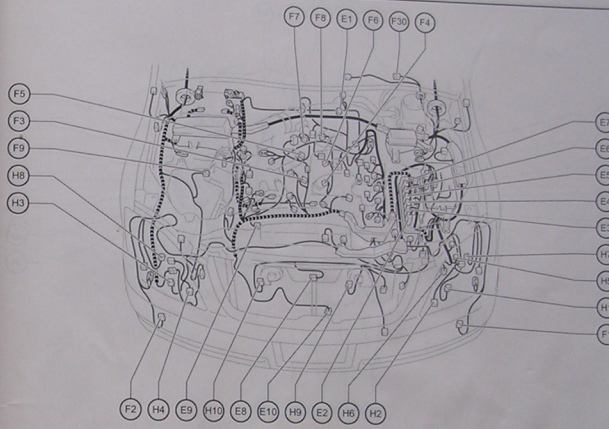


A 1 空调压缩机
A 2 空调压力传感器
A 3 空气流量计
A 4 空燃比传感器 (1 排，传感器 1)
A 5 空燃比传感器 (2 排，传感器 1)
A 6 空气囊传感器 (左前)
A 7 空气囊传感器 (右前)
A 8 交流发电机
A 9 交流发电机
A10 环境温度传感器

B 1 蓄电池电流传感器
B 2 蓄电池温度计传感器
B 3 制动液液面警告开关

C 1 凸轮轴正时机油控制阀 (左侧排气)
C 2 凸轮轴正时机油控制阀 (左侧进气)
C 3 凸轮轴正时机油控制阀 (右侧排气)
C 4 凸轮轴正时机油控制阀 (右侧进气)
C 5 示宽灯 (左前)
C 6 示宽灯 (右前)
C 7 冷却风扇 ECU
C 8 曲轴位置传感器
C 9 2 号曲轴位置传感器 (左侧排气)
C10 2 号曲轴位置传感器 (右侧排气)
C11 2 号曲轴位置传感器 (右侧进气)
C12 3 号曲轴位置传感器 (左侧进气)

发动机室内零件的位置

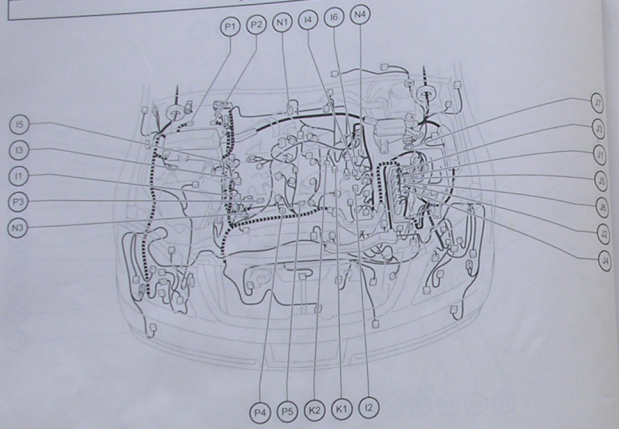


E 1 ECT 电磁阀
E 2 发动机 ECU
E 3 发动机 ECU
E 4 发动机 ECU
E 5 发动机 ECU
E 6 发动机 ECU
E 7 发动机 ECU
E 8 发动机罩灯控开关
E 9 机油油位传感器
E10 机油压力开关

F 1 雾灯 (左前)
F 2 雾灯 (右前)
F 3 喷油嘴 (1 号)
F 4 喷油嘴 (2 号)
F 5 喷油嘴 (3 号)
F 6 喷油嘴 (4 号)
F 7 喷油嘴 (5 号)
F 8 喷油嘴 (6 号)
F 9 燃油泵电阻器
F30 前刮水器除冰器

H 1 前照灯 (左远光)
H 2 前照灯 (左近光)
H 3 前照灯 (右远光)
H 4 前照灯 (右近光)
H 5 前照灯清洁器控制继电器
H 6 前照灯清洁器电机
H 7 前照灯方向控制电机 (左)
H 8 前照灯方向控制电机 (右)
H 9 喇叭 (高音)
H10 喇叭 (低音)

发动机室内零件的位置



I 1 点火线圈 (1 号)
I 2 点火线圈 (2 号)
I 3 点火线圈 (3 号)
I 4 点火线圈 (4 号)
I 5 点火线圈 (5 号)
I 6 点火线圈 (6 号)

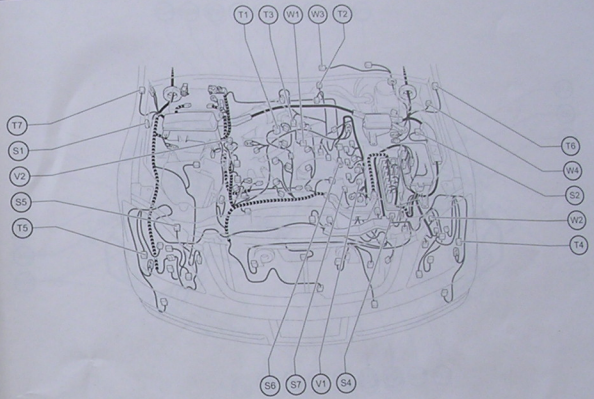
J 1 连接线接头
J 2 连接线接头
J 3 连接线接头
J 4 连接线接头
J 5 连接线接头
J 6 连接线接头
J 7 连接线接头

K 1 爆震控制传感器 (1 排)
K 2 爆震控制传感器 (2 排)

N 1 空档起动开关
N 3 静噪滤波器 (1 排点火)
N 4 静噪滤波器 (2 排点火)

P 1 动力转向 ECU
P 2 动力转向 ECU
P 3 动力转向电机
P 4 动力转向电机
P 5 动力转向扭矩传感器

发动机室内零件的位置



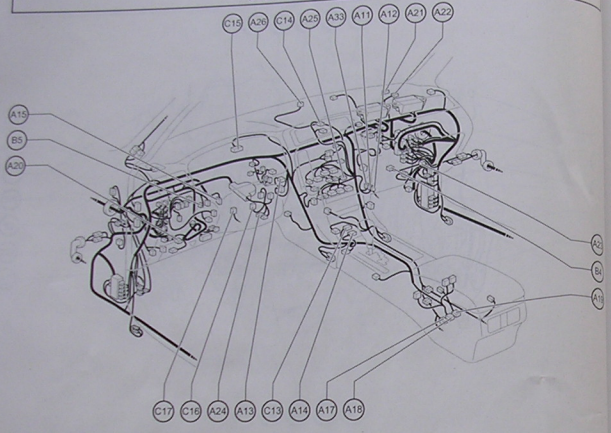
S 1 安全喇叭
S 2 带执行器的制动防滑控制 ECU
S 4 速度传感器 (左前)
S 5 速度传感器 (右前)
S 6 起动机
S 7 起动机

T 1 节气门体总成
T 2 变速器转速传感器 (中间轴齿轮)
T 3 变速器转速传感器 (涡轮)
T 4 转向信号灯 (左前)
T 5 转向信号灯 (右前)
T 6 转向信号灯 (左前侧)
T 7 转向信号灯 (右前侧)

V 1 VSV (ACIS)
V 2 VSV (EVAP)

W 1 水泵传感器
W 2 风挡玻璃洗涤器电机
W 3 风挡玻璃刮水器电机
W 4 无线门锁蜂鸣器

仪表板内零件的位置

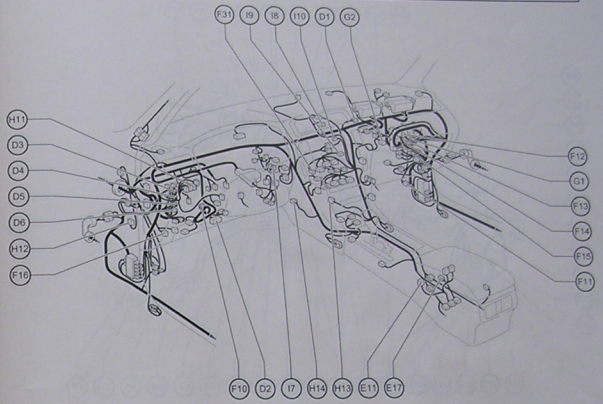


A11 空调放大器 (前)
A12 空调放大器 (前)
A13 空调室内温度传感器
A14 自动变速器换档杆照明
A15 加速踏板位置传感器
A17 中央空气囊传感器总成
A18 中央空气囊传感器总成
A19 中央空气囊传感器总成
A20 空气囊引爆管 (驾驶员侧膝盖空气囊)
A21 空气囊引爆管 (前乘员侧空气囊总成)
A22 空气囊引爆管 (前乘员侧空气囊总成)
A23 空气囊引爆管 (前乘员侧膝盖空气囊)
A24 空气囊引爆管 (方向盘衬垫)
A25 天线放大器
A26 自动灯控传感器
A33 空调放大器 (前)

B 4 鼓风机电机 (前)
B 5 制动踏板踏感开关

C13 点烟器
C14 时钟
C15 组合仪表
C16 组合开关
C17 组合开关

仪表板内零件的位置



D 1 二级管
D 2 DLC3
D 3 驾驶员侧接线盒 ECU
D 4 驾驶员侧接线盒 ECU
D 5 驾驶员侧接线盒 ECU
D 6 驾驶员侧接线盒 ECU

E11 ECT 模式选择开关
E17 电子钥匙振荡器 (后控制台)

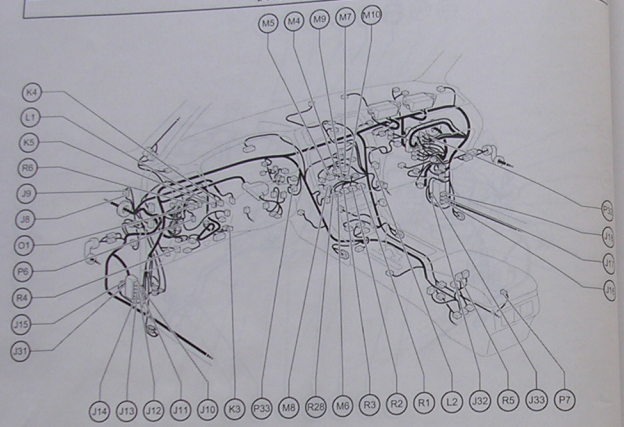
F10 足部照明灯 (左前)
F11 足部照明灯 (右前)
F12 前乘员侧接线盒 ECU
F13 前乘员侧接线盒 ECU
F14 前乘员侧接线盒 ECU
F15 前乘员侧接线盒 ECU
F16 加油口盖开启器开关
F31 前刮水器除冰器开关

G 1 网关 ECU
G 2 手套箱灯

H11 前照灯清洁器开关
H12 前照灯方向控制 ECU
H13 加热型氧传感器 (1 排，传感器 2)
H14 加热型氧传感器 (2 排，传感器 2)

I 7 点火开关
I 8 仪表板调节器总成
I 9 集成控制面板总成
I 10 离子发生器

仪表板内零件的位置



J 8 连接线接头
J 9 连接线接头
J 10 连接线接头
J 11 连接线接头
J 12 连接线接头
J 13 连接线接头
J 14 连接线接头
J 15 连接线接头
J 16 连接线接头
J 17 连接线接头
J 18 连接线接头
J 31 连接线接头
J 32 连接线接头
J 33 连接线接头

K 3 钥匙取消开关
K 4 钥匙孔
K 5 钥匙孔

L 1 灯控可变电阻器
L 2 行李箱门开启器取消开关

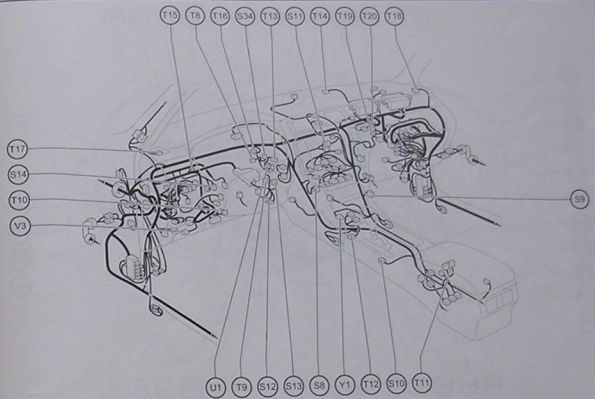
M 4 复式显示器
M 5 复式显示器
M 6 复式显示器
M 7 复式显示器
M 8 复式显示器
M 9 复式显示器
M10 复式显示器

O 1 外后视镜开关

P 6 驻车制动开关
P 7 电源插座 (前)
P 32 电源控制 ECU
P 33 电源开关

R 1 收音机总成
R 2 收音机总成
R 3 收音机总成
R 4 后电动座椅开关 (回位控制)
R 5 后遮阳帘开关
R 6 后视镜收缩器开关
R 28 收音机总成

仪表板内零件的位置



S 8 座椅加热器开关 (左前)
S 9 座椅加热器开关 (右前)
S10 换档锁止控制 ECU
S11 扬声器 (中间)
S12 螺旋电缆
S13 转向传感器
S14 制动灯开关
S34 转向锁止 ECU

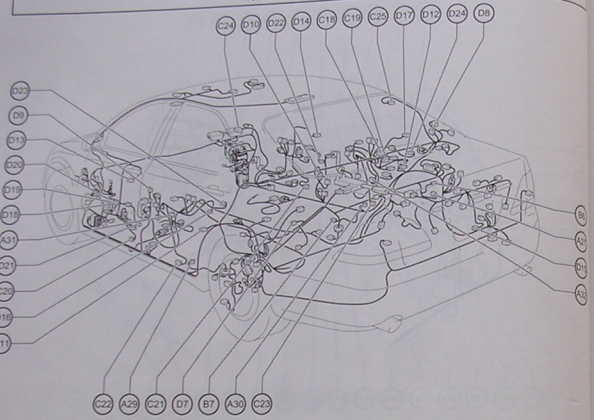
T 8 倾斜和伸缩 ECU
T 9 倾斜电机
T10 轮胎压力警告开关
T11 牵引控制开关
T12 变速器控制开关
T13 收发器钥匙放大器
T14 收发器钥匙 ECU
T15 计程器开关
T16 转向信号闪光器
T17 高音喇叭 (左前)
T18 高音喇叭 (右前)
T19 电视摄像头控制器
T20 电视摄像头控制器

U 1 未锁警告开关

V 3 VSC 警告蜂鸣器

Y 1 偏移率传感器

车身内零件的位置



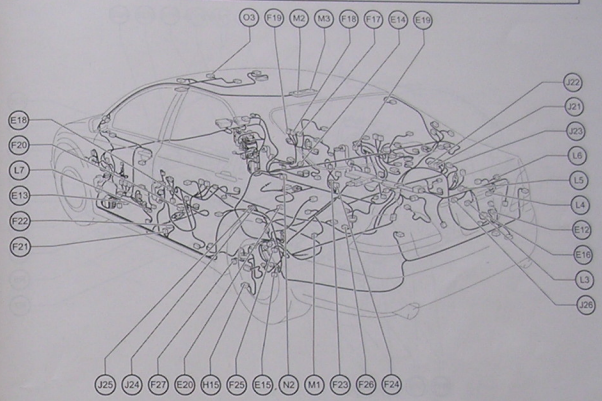
A27 空调放大器 (后)
A29 空气囊传感器 (左后)
A30 空气囊传感器 (右后)
A31 烟灰缸照明 (左后)
A32 烟灰缸照明 (右后)

B 6 鼓风机电机 (后)
B 7 鼓风机电阻器 (后)

C18 中央制动灯
C19 中央制动灯
C20 门控灯 (左前门)
C21 门控灯 (右前门)
C22 门控灯 (左后门)
C23 门控灯 (右后门)
C24 帘式空气囊引爆管 (左)
C25 帘式空气囊引爆管 (右)

D 7 阻尼器伺服电机 (后空气混合)
D 8 门控接收器
D 9 门控灯开关 (驾驶员侧)
D10 门控灯开关 (前乘员侧)
D11 门控灯开关 (左后)
D12 门控灯开关 (右后)
D13 门锁总成 (驾驶员侧)
D14 门锁总成 (前乘员侧)
D15 门锁总成 (行李箱)
D16 门锁总成 (左后)
D17 门锁总成 (右后)
D18 驾驶员门 ECU
D19 驾驶员门 ECU
D20 驾驶员门 ECU
D21 车门外侧把手 (左前)
D22 车门外侧把手 (右前)
D23 车门外侧把手 (左后)
D24 车门外侧把手 (右后)

车身内零件的位置



E12 电子钥匙天线 (行李箱)
E13 电子钥匙振荡器 (左前门)
E14 电子钥匙振荡器 (右前门)
E15 电子钥匙振荡器 (行李箱内侧)
E16 电子钥匙振荡器 (行李箱外侧)
E18 电子钥匙振荡器 (左后门)
E19 电子钥匙振荡器 (右后门)
E20 电子钥匙振荡器 (后座椅)

F 17 前乘员门 ECU
F 18 前乘员门 ECU
F 19 前乘员门 ECU
F 20 前座椅内安全带 (驾驶员侧)
F 21 前座椅外安全带 (左)
F 22 前座椅外安全带 (左)
F 23 前座椅外安全带 (右)
F 24 前座椅外安全带 (右)
F 25 加油口盖开启器电机
F 26 燃油量传感器
F 27 吸油泵和计量表总成

H15 高度控制传感器

J 21 连接线接头
J 22 连接线接头
J 23 连接线接头
J 24 连接线接头
J 25 连接线接头
J 26 连接线接头

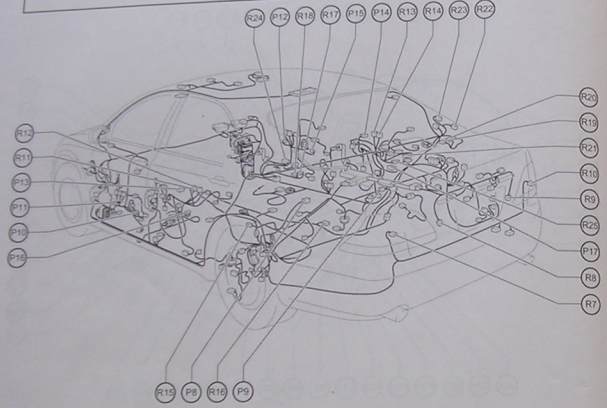
L 3 牌照灯 (左)
L 4 牌照灯 (右)
L 5 行李箱门锁芯
L 6 行李箱门锁
L 7 行李箱门开启器开关 (左前门)

M 1 电磁阀 (后)
M 2 地图灯 (左)
M 3 地图灯 (右)

N 2 静噪滤波器 (中央制动灯)

O 3 顶置接线盒

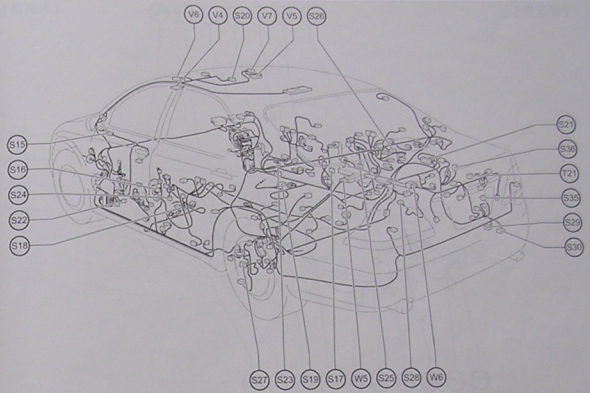
车身内零件的位置



P 8 电动座椅电机(左后座椅倾斜控制)
P 9 电动座椅电机(右后座椅倾斜控制)
P10 电动窗主开关
P11 电动窗升降调节器电机(驾驶员侧)
P12 电动窗升降调节器电机(前乘员侧)
P13 电动窗升降调节器电机(左后)
P14 电动窗升降调节器电机(右后)
P15 电动窗开关(前乘员侧)
P16 电动窗开关(左后)
P17 电动窗开关(右后)

R 7 后组合灯(左)
R 8 后组合灯(左)
R 9 后组合灯(右)
R10 后组合灯(右)
R11 左后门 ECU
R12 左后门 ECU
R13 右后门 ECU
R14 右后门 ECU
R15 后座椅内安全带(左)
R16 后座椅内安全带(右)
R17 后座椅外安全带(左)
R18 后座椅外安全带(左)
R19 后座椅外安全带(右)
R20 后座椅外安全带(右)
R21 后遮阳帘继电器
R22 后窗除雾器
R23 后窗除雾器
R24 后窗除雾器
R25 室内灯(行李箱)

车身内零件的位置



S15 座椅位置存储器开关
S16 侧空气囊传感器(左)
S17 侧空气囊传感器(右)
S18 侧空气囊引爆管(左)
S19 侧空气囊引爆管(右)
S20 滑动天窗控制 ECU
S21 烟雾传感器
S22 扬声器(左前门)
S23 扬声器(右前门)
S24 扬声器(左后门)
S25 扬声器(右后门)
S26 扬声器(低音喇叭)
S27 速度传感器(左后)
S28 速度传感器(右后)
S29 立体声功放组件
S30 立体声功放组件
S35 智能钥匙控制接收器
S36 智能钥匙 ECU

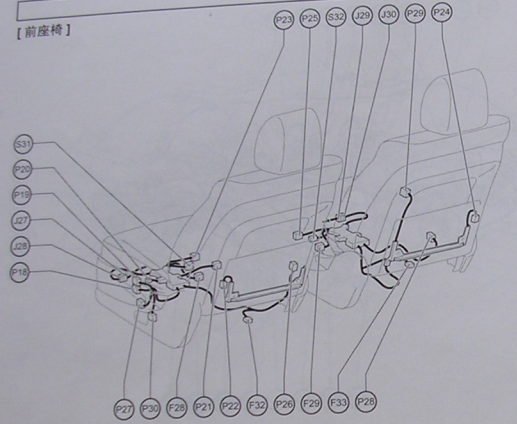
T21 电视摄像头(后)

V 4 梳妆灯(左)
V 5 梳妆灯(右)
V 6 梳妆灯开关(左)
V 7 梳妆灯开关(右)

W 5 线束轴
W 6 线束轴

座椅内零件的位置

[前座椅]



F28 前座椅内安全带 (驾驶员侧)
F29 前座椅内安全带 (前乘员侧)
F32 足部照明灯 (左后)
F33 足部照明灯 (右后)

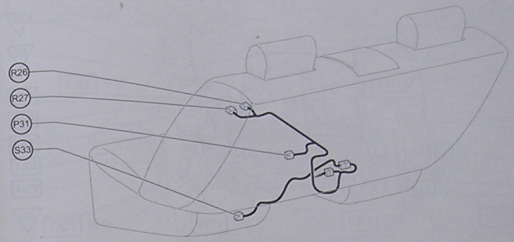
J27 连接线接头
J28 连接线接头
J29 连接线接头
J30 连接线接头

P18 位置控制 ECU 和开关
P19 位置控制 ECU 和开关
P20 电动座椅电机 (驾驶员座椅前垂直控制)
P21 电动座椅电机 (驾驶员座椅后垂直控制)
P22 电动座椅电机 (驾驶员座椅倾斜控制)
P23 电动座椅电机 (驾驶员座椅滑动控制)
P24 电动座椅电机 (前乘员座椅倾斜控制)
P25 电动座椅电机 (前乘员座椅滑动控制)
P26 电动座椅电机 (腰部支撑)
P27 电动座椅开关 (驾驶员座椅)
P28 电动座椅开关 (前乘员座椅)
P29 电动座椅开关 (前乘员座椅)
P30 电动座椅开关 (腰部支撑)

S31 座椅加热器 (左前)
S32 座椅加热器 (右前)

座椅内零件的位置

[后座椅]



P31 电源插座 (后)

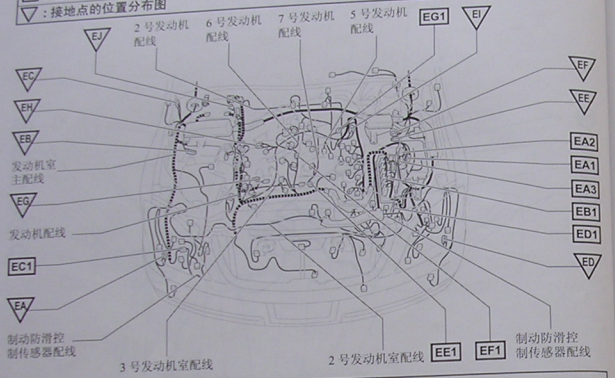
S33 座椅加热器 (后)

R26 后控制器
R27 后控制器

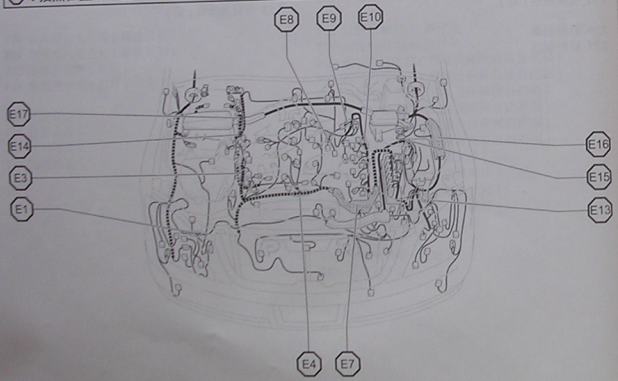
G 电路图

□：连接线束的连接器和线束位置分布图

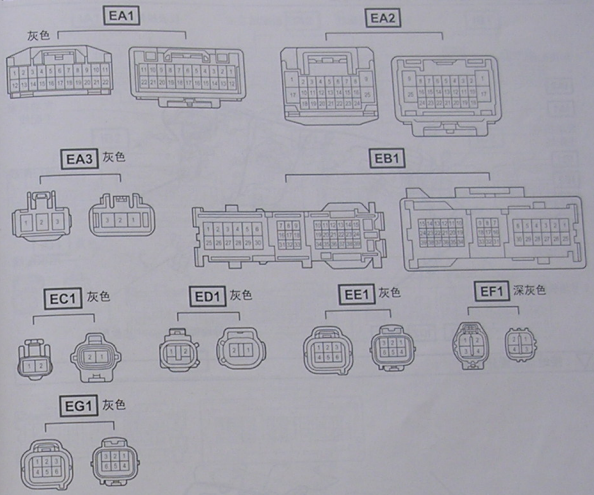
▽：接地点的位置分布图



○：接点位置分布图

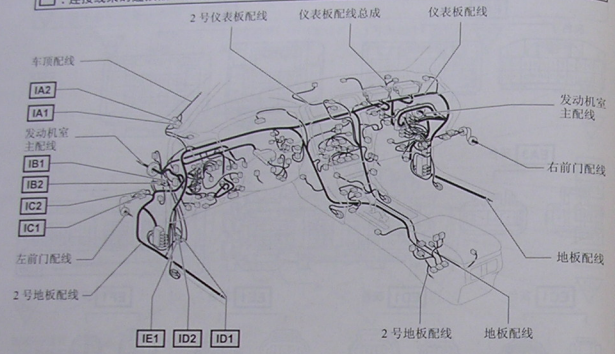


连接线束的连接器和线束

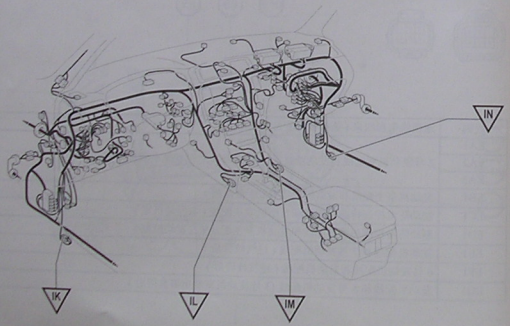


代码	连接线束和线束（连接器位置分布图）
EA1	2 号发动机室配线和发动机室主配线 (2 号发动机室继电器盒内侧)
EA2	
EA3	
EB1	发动机室主配线和发动机配线 (ECU 盒内侧)
EC1	制动防滑控制传感器配线和发动机室主配线 (右发动机室)
ED1	制动防滑控制传感器配线和发动机室主配线 (左发动机室)
EE1	发动机配线和 7 号发动机配线 (进气歧管后)
EF1	6 号发动机配线和发动机配线 (进气歧管后)
EG1	发动机配线和 5 号发动机配线 (3 号发动机室继电器盒附近)

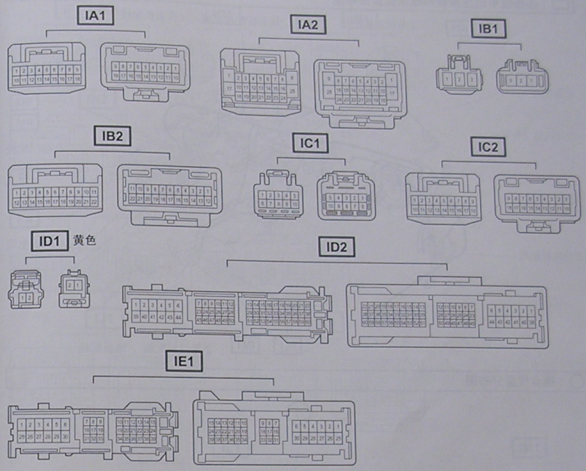
□：连接线束的连接器和线束位置分布图



▽：接地点位置分布图



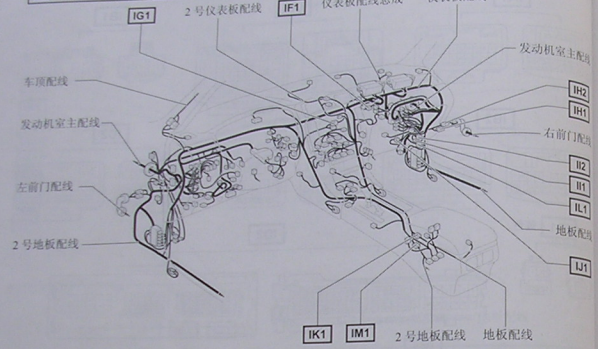
连接线束的连接器和线束



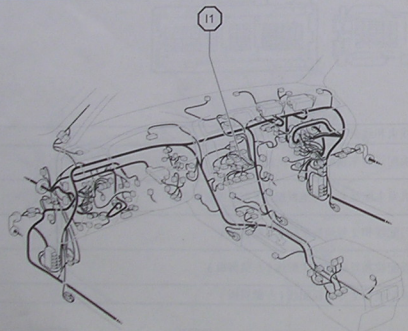
代码	连接线束和线束（连接器位置分布图）
IA1	仪表板配线和车顶配线（仪表板左侧）
IA2	
IB1	发动机室主配线和 2 号地板配线（左前围板侧板）
IB2	
IC1	左前门配线和 2 号地板配线（左踏脚板）
IC2	
ID1	仪表板配线和发动机室主配线（左踏脚板）
ID2	
IE1	仪表板配线和 2 号地板配线（左踏脚板）

G 电路图

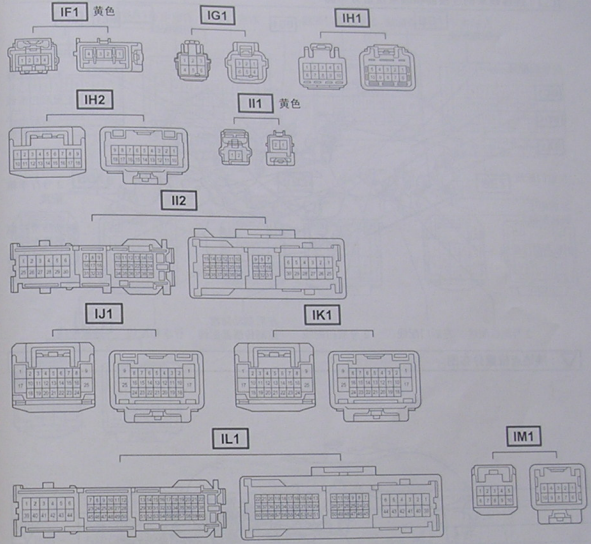
□：连接线束的连接器和线束位置分布图



○：接点位置分布图



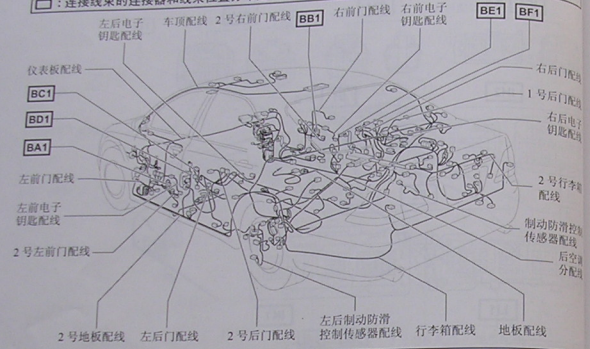
连接线束的连接器和线束



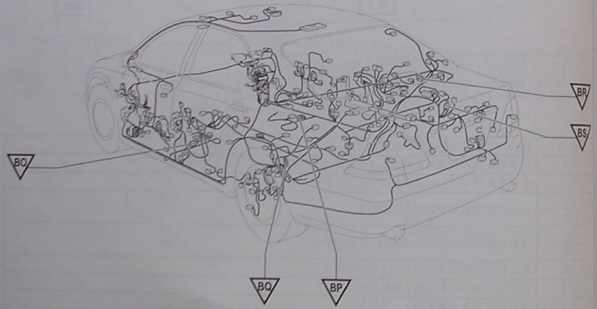
代码	连接线束和线束（连接器位置分布图）
IF1	仪表板配线和仪表板配线总成（仪表板加强件右侧）
IG1	仪表板配线和 2 号仪表板配线（仪表板中间）
IH1	右前门配线和地板配线（右踏脚板）
IH2	
II1	仪表板配线和发动机室主配线（右踏脚板）
II2	
IJ1	发动机室主配线和地板配线（右踏脚板）
IK1	仪表板配线和地板配线（后控制台下）
IL1	仪表板配线和地板配线（右踏脚板）
IM1	仪表板配线和 2 号地板配线（后控制台下）

G 电路图

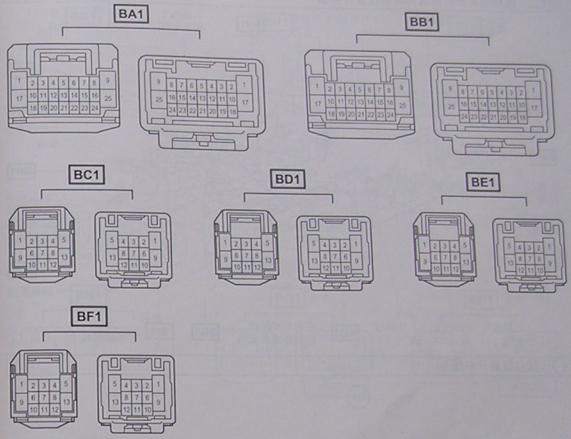
□：连接线束的连接器和线束位置分布图



▽：接地点位置分布图



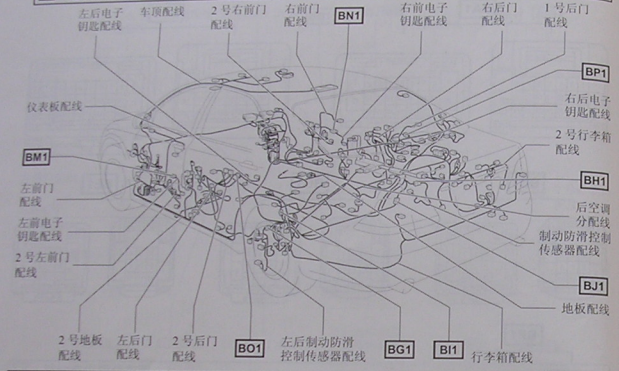
连接线束的连接器和线束



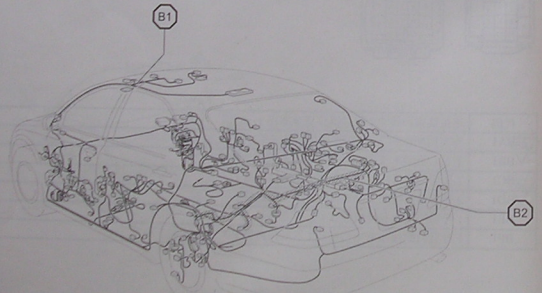
代码	连接线束和线束（连接器位置分布图）
BA1	左前门配线和2号左前门配线（左前门内侧）
BB1	右前门配线和2号右前门配线（右前门内侧）
BC1	2号后门配线和左后门配线（左后门内侧）
BD1	2号后门配线和2号地板配线（左中立柱）
BE1	1号后门配线和地板配线（右中立柱）
BF1	1号后门配线和右后门配线（右后门内侧）

G 电路图

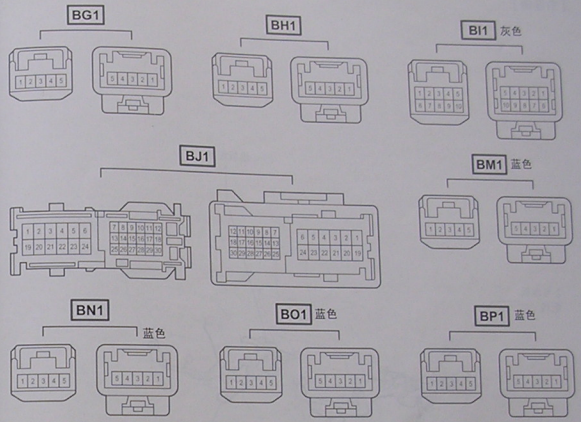
□：连接线束的连接器和线束位置分布图



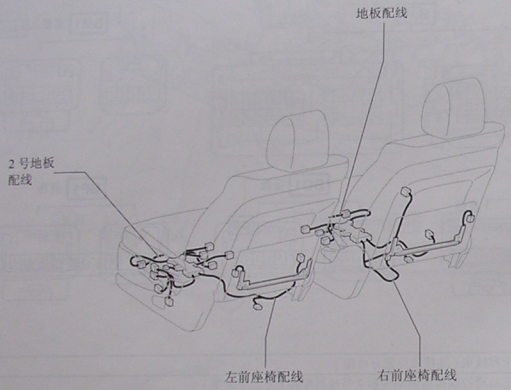
○：接点位置分布图



连接线束的连接器和线束



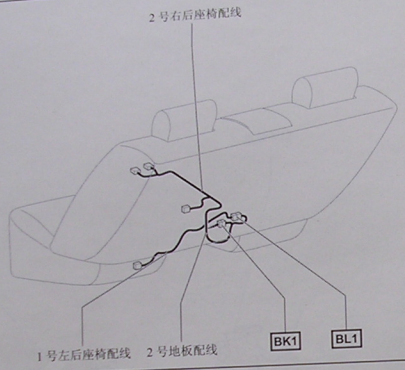
代码	连接线束和线束（连接器位置分布图）
BG1	左后制动防滑控制传感器配线和 2 号地板配线（左后车轮罩）
BH1	制动防滑控制传感器配线和地板配线（右后车轮罩）
BI1	2 号地板配线和后空调分配线（左后地板隔板）
BJ1	地板配线和 2 号地板配线（右后地板隔板）
BM1	左前门配线和左前电子钥匙配线（左前门内侧）
BN1	右前门配线和右前电子钥匙配线（右前门内侧）
BO1	左后电子钥匙配线和 2 号后门配线（左后门内侧）
BP1	右后电子钥匙配线和 1 号后门配线（右后门内侧）


地板配线
2 号地板
配线
左前座椅配线
右前座椅配线

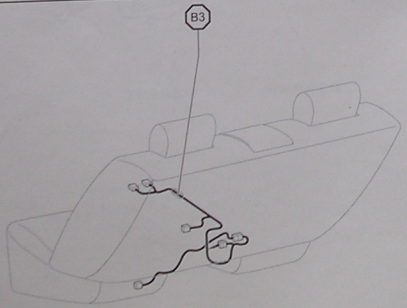
G 电路图

□：连接线束的连接器和线束位置分布图

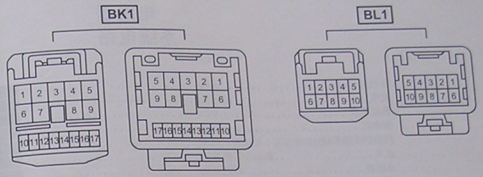
[后座椅]



○：接点位置分布图



连接线束的连接器和线束



代码	连接线束和线束（连接器位置分布图）
BK1	2 号右后座椅配线和 2 号地板配线（左后座椅背面）
BL1	2 号右后座椅配线和 1 号左后座椅配线（右后座椅背面）

CROWN
电路图
系统电路

	页码
车内灯	192
充电	111
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倒车灯	232
灯自动关闭系统	232
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电动窗	306
电动倾斜和伸缩	422
电动座椅（不带驾驶位置存储器的驾驶员座椅）	408
电动座椅（带驾驶位置存储器的驾驶员座椅）	402
电动座椅（后乘员座椅）	412
电动座椅（前乘员座椅）	410
电源	92
电源插座	400
电子张紧力调节器	414
多路通信系统 (AVC-LAN)	158
多路通信系统 (BEAN)	162
多路通信系统 (CAN)	154
ECT 和 A/T 指示器	142
EPS	350
发动机控制	118
发动机停机系统（不带智能进入和起动系统）	138
防盗	284
丰田驻车辅助（倒车导向监视器）	440
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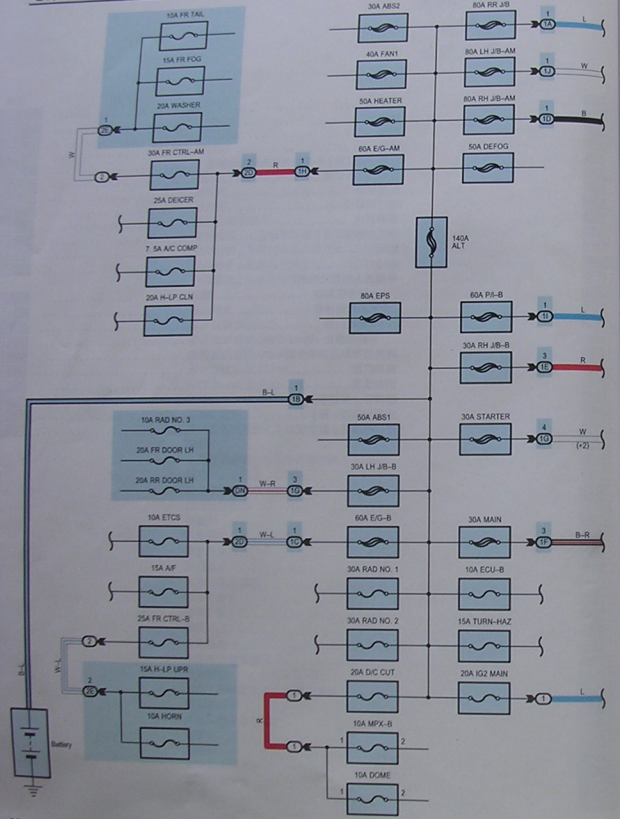
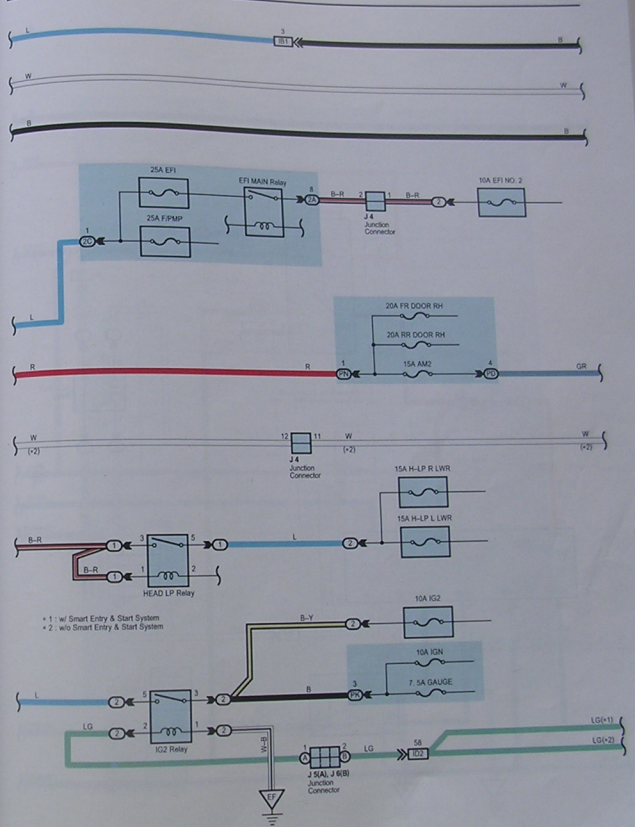
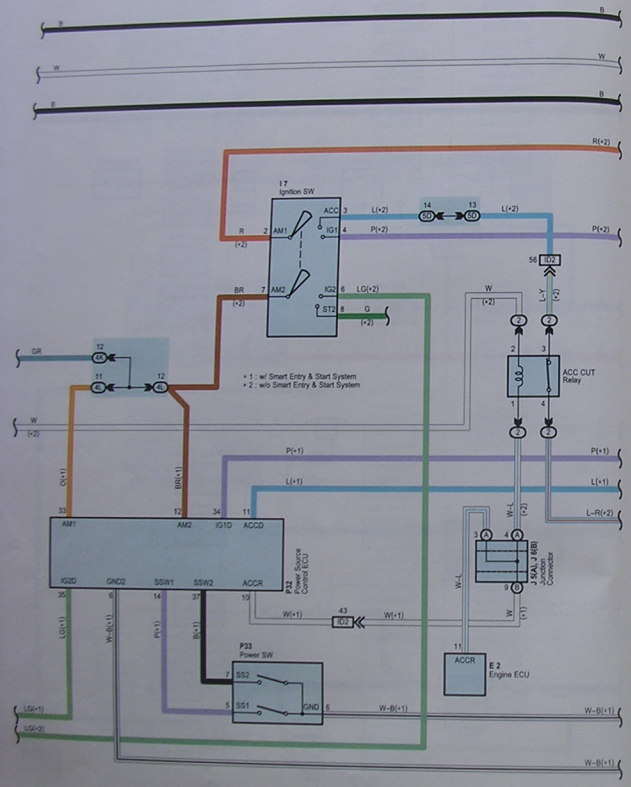
后窗除雾器	390
后视镜加热器	418
后雾灯	180
后遮阳帘	428
滑动天窗	370
换档锁止	438
加油口盖开启器	416
空调（后）	478
空调（前）	466
喇叭	394
冷却风扇	464
轮胎压力警告系统	332
门锁控制	242
起动（不带智能进入和起动系统）	108
前窗除冰器	388
前刮水器和洗涤器	382
前雾灯	174
前照灯	168
前照灯方向控制	356
前照灯清洁器	360
SRS	341

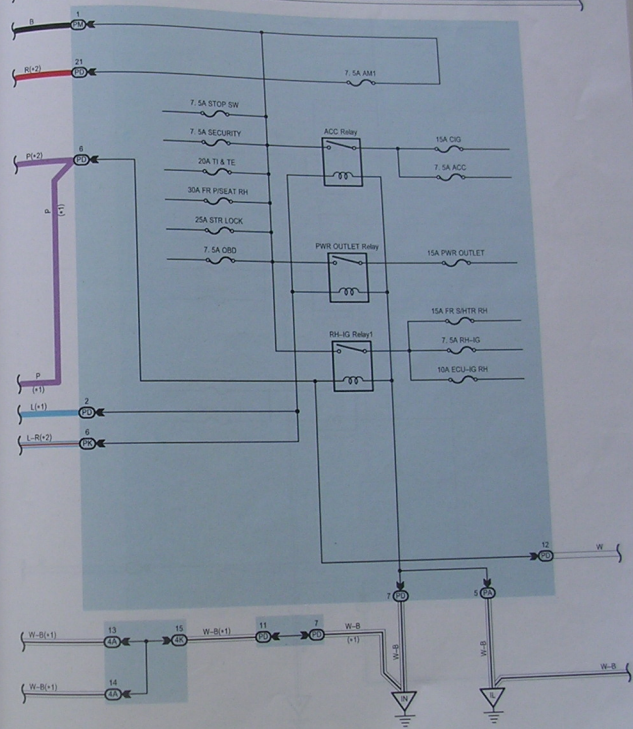
	页码
时钟	396
TRC	332
VSC	332
尾灯	208
无线门锁控制（不带智能进入和起动系统）	270
行李箱门开启器	376
巡航控制	320
遥控后视镜	364
音响系统	450
钥匙提醒器	302
照明	214
制动灯	226
智能进入和起动系统	
＊按按钮起动	100
＊发动机停机	100
＊无线门锁	254
＊转向锁止	100
转向信号和应急警告灯	186
自动灯控	234
组合仪表	456
座椅安全带警告	298
座椅加热器（后）	436
座椅加热器（前）	434

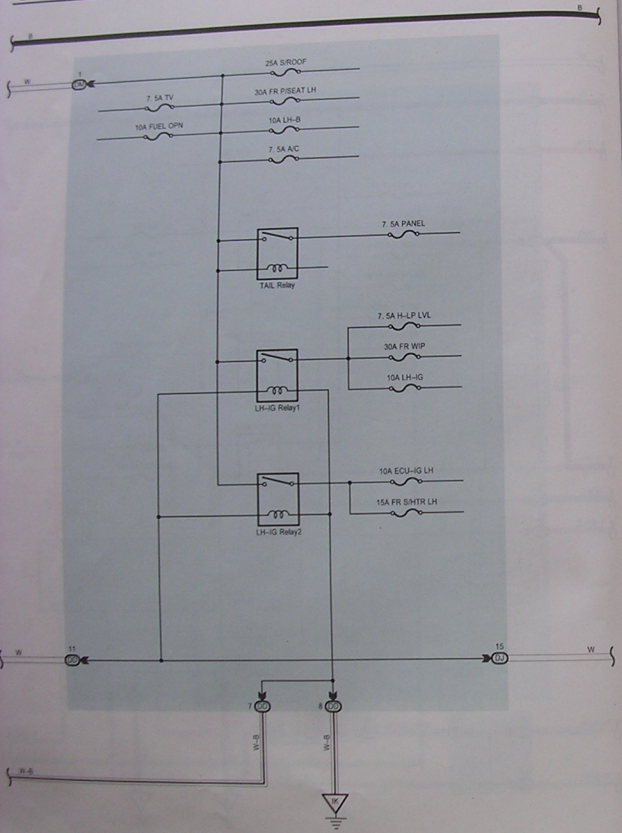

10A FR TAIL
15A FR FOG
20A WASHER
30A FR CTRL–AM
25A DEICER
7.5A A/C COMP
20A H–LP CLN
30A ABS2
40A FAN1
50A HEATER
60A E/G–AM
80A EPS
50A ABS1
10A RAD NO. 3
20A FR DOOR LH
20A RR DOOR LH
10A ETCS
15A A/F
25A FR CTRL–B
15A H–LP UPR
10A HORN
Battery
80A RR J/B
80A LH J/B–AM
80A RH J/B–AM
50A DEFOG
140A ALT
60A P/I–B
30A RH J/B–B
30A STARTER
30A LH J/B–B
60A E/G–B
30A RAD NO. 1
30A RAD NO. 2
20A D/C CUT
10A MPX–B
10A DOME
30A MAIN
10A ECU–B
15A TURN–HAZ
20A IG2 MAIN

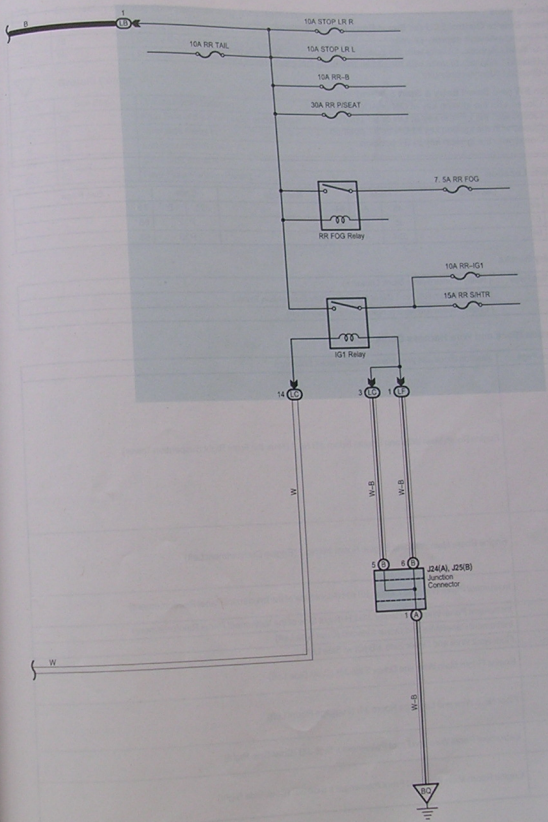

25A EFI
25A F/PMP
EFI MAIN Relay
10A EFI NO. 2
J 4
Junction Connector
20A FR DOOR RH
20A RR DOOR RH
15A AM2
J 4
Junction Connector
15A H–LP R LWR
15A H–LP L LWR
HEAD LP Relay
* 1 : w/ Smart Entry & Start System
* 2 : w/o Smart Entry & Start System
10A IG2
10A IGN
7.5A GAUGE
IG2 Relay
J 5(A), J 6(B)
Junction Connector

电源


I 7
Ignition SW
ACC
IG1
IG2
ST2
AM1
AM2
ACC CUT Relay
* 1 : w/ Smart Entry & Start System
* 2 : w/o Smart Entry & Start System
AM1
AM2
IG1D
ACCD
IG2D
GND2
SSW1
SSW2
ACCR
P32
Power Source Control ECU
P33
Power SW
SS2
SS1
GND
J5A/J 7(B)
Junction Connector
E 2
Engine ECU
ACCR


7. 5A AM1
7. 5A STOP SW
7. 5A SECURITY
20A TI & TE
30A FR P/SEAT RH
25A STR LOCK
7. 5A OBD
ACC Relay
15A CIG
7. 5A ACC
PWR OUTLET Relay
15A PWR OUTLET
RH-IG Relay1
15A FR S/HTR RH
7. 5A RH-IG
10A ECU-IG RH


B
W
1
EA1
25A S/ROOF
7. 5A TV
30A FR P/SEAT LH
10A FUEL OPN
10A LH-B
7. 5A A/C
7. 5A PANEL
TAIL Relay
7. 5A H-LP LVL
30A FR WIP
10A LH-IG
LH-IG Relay1
10A ECU-IG LH
15A FR S/HTR LH
LH-IG Relay2
11
EA7
15
EA1
W
7
EA6
8
EA6
W-B
E2


B
1
EA1
10A STOP LR R
10A RR TAIL
10A STOP LR L
10A RR-B
30A RR P/SEAT
7. 5A RR FOG
RR FOG Relay
10A RR-IG1
15A RR S/HTR
IG1 Relay
14
EA6
3
EA6
1
EA6
W
W-B
W-B
5
6
J24(A), J25(B)
Junction
Connector
1
A
W
W-B
E2

电源

Service Hints

P32 Power Source Control ECU (w/ Smart Entry & Start System)

12, 33–Ground : Always approx. 12 volts
11–Ground : Approx. 12 volts with the power SW at IG ON or ACC ON position
34, 35–Ground : Approx. 12 volts with the power SW at IG ON position
6–Ground : Always continuity

I7 Ignition SW (w/o Smart Entry & Start System)

2–3 : Closed with the ignition key at ON or ACC position
2–4 : Closed with the ignition key at ON or ST position
7–6 : Closed with the ignition key at ST position
7–8 : Closed with the ignition key at ST position

○ : Parts Location

Code	See Page	Code		See Page	Code		See Page
E2	63	J5	A	64	J25	B	71
I7	67	J6	B	64	P32		68
J4	64	J24	A	71	P33		68

▢ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)
2	26	Engine Room R/B No.2 (Engine Compartment Left)

▢ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	23	Engine Room Main Wire and Engine Room J/B No.1 (Near the Front Right Suspention Tower)
1B		
1C		
1D		
1E		
1F		
1G		
1H		
1I		
1J		
2A	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
2C		
2D		
2E		
4A	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4K		
5D	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
DD	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DJ	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
DM	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
DN		
LB	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
LC		
LF		
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)
PM		
PN		

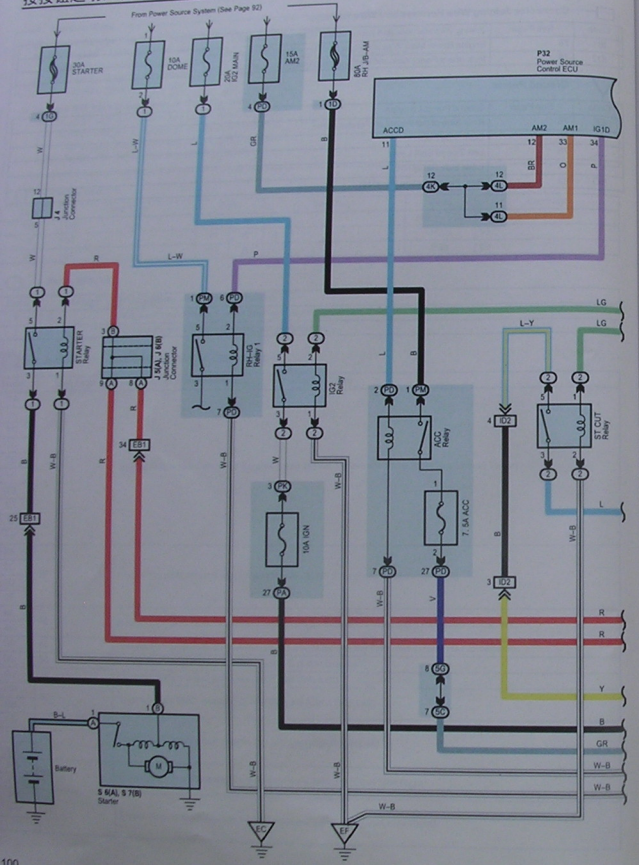
▢ : Connector Joining Wire Harness and Wire Harness

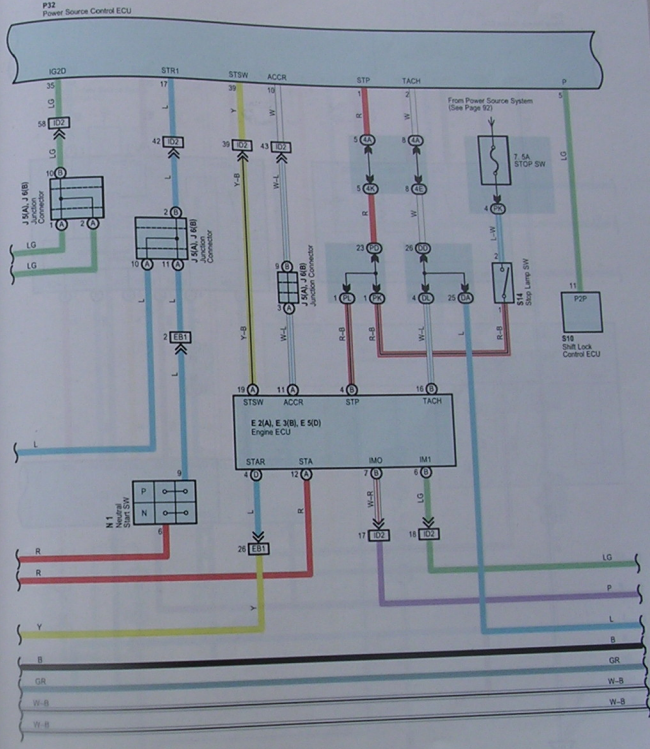
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB1	78	Engine Room Main Wire and Floor No.2 Wire (Left Cowl Side Panel)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)

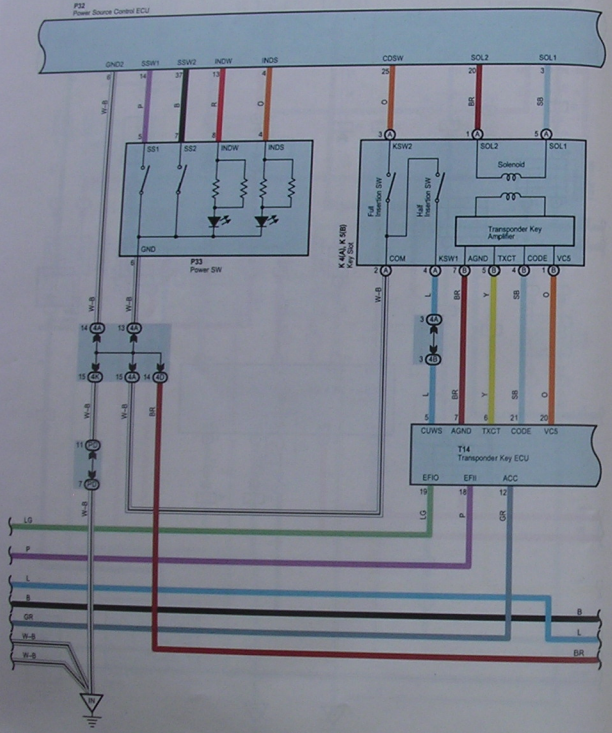
▽ : Ground Points

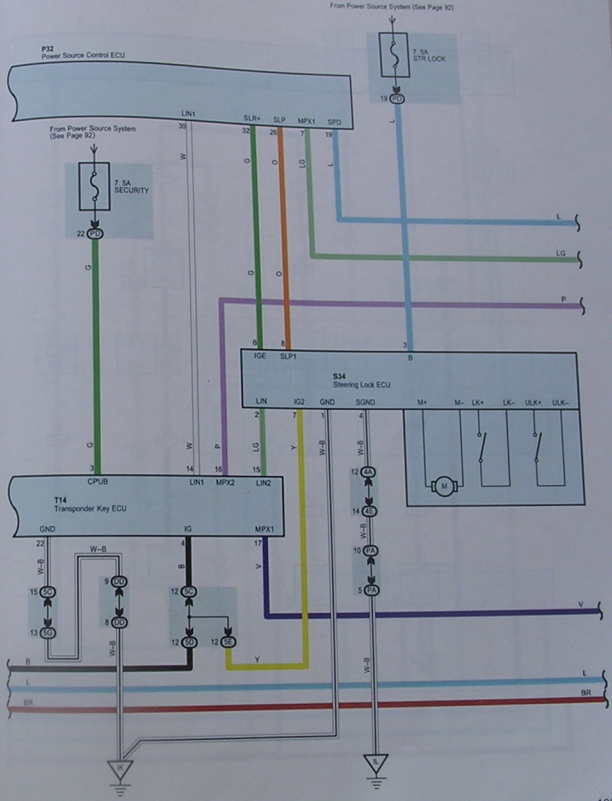
Code	See Page	Ground Points Location
EF	76	Rear Side of the Front Left Fender Apron
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH
BQ	82	Rear Floor Partition Panel LH

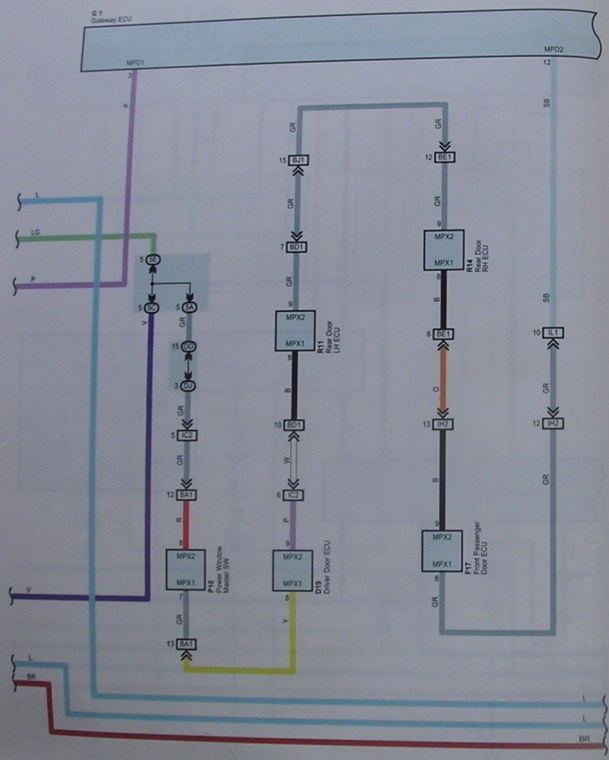
按按钮起动，发动机停机和转向锁止

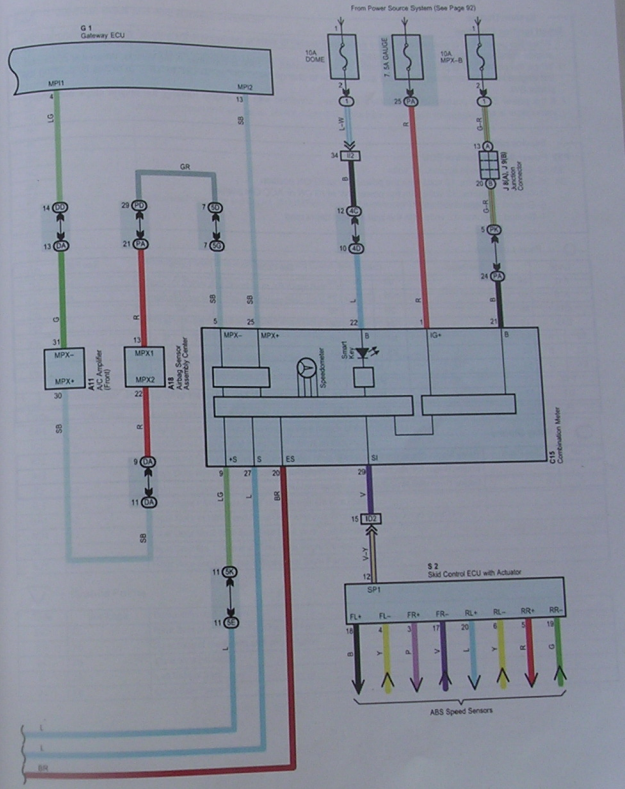





P32
Power Source Control ECU
GND2
SSW1
SSW2
INDW
INDS
CDSW
SOL2
SOL1
SS1
SS2
INDW
INDS
GND
P33
Power SW
KSW2
SOL2
SOL1
Solenoid
Full Insertion SW
Half Insertion SW
Transponder Key Amplifier
COM
KSW1
AGND
TXCT
CODE
VC5
K-ALI, K-SBI
K-ALO, K-SBO
T14
Transponder Key ECU
CUWS
AGND
TXCT
CODE
VC5
EFIO
EFII
ACC


From Power Source System (See Page 92)
P32
Power Source Control ECU
7.5A
STR LOCK
LIN1
SLR+
SLP
MPX1
SPD
From Power Source System
(See Page 92)
7.5A
SECURITY
S34
Steering Lock ECU
IGE
SLP1
LIN
IG2
GND
SGND
M+
M-
LK+
LK-
ULK+
ULK-
T14
Transponder Key ECU
CPUB
LIN1
MPX2
LIN2
GND
IG
MPX1


G 1
Gateway ECU
MPD1
MPD2
P
L
LG
V
BR
GR
SB
W
O
B
Y
5 GR
5 GA
15 GC
3 GB
5 IC2
12 EA1
13 EA1
P16
Power Window
Master SW
MPX2
MPX1
7 EJ1
7 ED1
10 ED1
8 IC2
9 IP
8 Y
DR
Driver Door ECU
15 EJ1
9 GR
8 B
RH1
Rear Door
LH ECU
12 EB1
9 GR
8 B
6 EB1
RH4
Rear Door
RH ECU
13 IH2
8 B
9 O
FR7
Front Passenger
Door ECU
10 IJ1
12 IH2


From Power Source System (See Page 92)
G 1
Gateway ECU
MP11
MP12
10A
DOME
7.5A GAUGE
10A
MPX–B
L-W
G-R
J 1
J/B NO. 2 RW
Connector
LG
GR
SB
R
L
B
4 LG
14 GG
13 GA
31 G
29 PG
21 GA
13 R
22 R
9 GA
11 GA
7 GG
7 GA
5 SB
25 SB
34 B
12 GE
10 AN
22 L
5 R
30 SB
MPX–
MPX+
A11
Amplifier
(For Auto
A/C)
A18
ABS Sensor
Assembly Center
Smart
Junction
Block
Speedometer
IG+
B
C15
Combination Meter
+S
S
ES
SI
9 LG
27 L
20 BR
29 V
15 IG1
3 V-Y
11 GA
11 GE
L
BR
S 2
Skid Control ECU with Actuator
SP1
FL+
FL–
FR+
FR–
RL+
RL–
RR+
RR–
15 B
4 Y
3 P
17 V
20 L
6 Y
3 R
19 G
ABS Speed Sensors

按按钮起动，发动机停机和转向锁止

System Outline

Smart Ignition Function

- When the power SW is pushed with brake pedal depressed, ID code is confirmed in the vehicle. When it is confirmed, the engine immobilizer allows the engine to start.
- When the power SW is pushed without brake pedal depressed, ID code is confirmed in the vehicle. When it is confirmed, the engine immobilizer allows the power supply mode to change "ACC ON" to "IG ON" to "OFF" in circles by pushing the power SW.
- If the power SW is pushed under vehicle's stationary condition with the engine running, the engine stops and engine immobilizer is set.

Service Hints

P32 Power Source Control ECU

33, 12–Ground : Always approx. 12 volts
34, 35–Ground : Approx. 12 volts with the power SW at IG ON position
11–Ground : Approx. 12 volts with the power SW at IG ON or ACC ON position
6–Ground : Always continuity
1–Ground : Approx. 12 volts with the brake pedal depressed

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A11	66	J5 A	64	R11	72
A18	66	J6 B	64	R14	72
C15	66	J8 A	68	S2	65
D19	70	J9 B	68	S6 A	65
E2 A	63	K4 A	68	S7 B	65
E3 B	63	K5 B	68	S10	69
E5 D	63	N1	64	S14	69
F17	71	P10	72	S34	69
G1	67	P32	68	T14	69
J4	64	P33	68		

▢ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)
2	26	Engine Room R/B No.2 (Engine Compartment Left)

○ : Junction Block and Wire Harness Connector

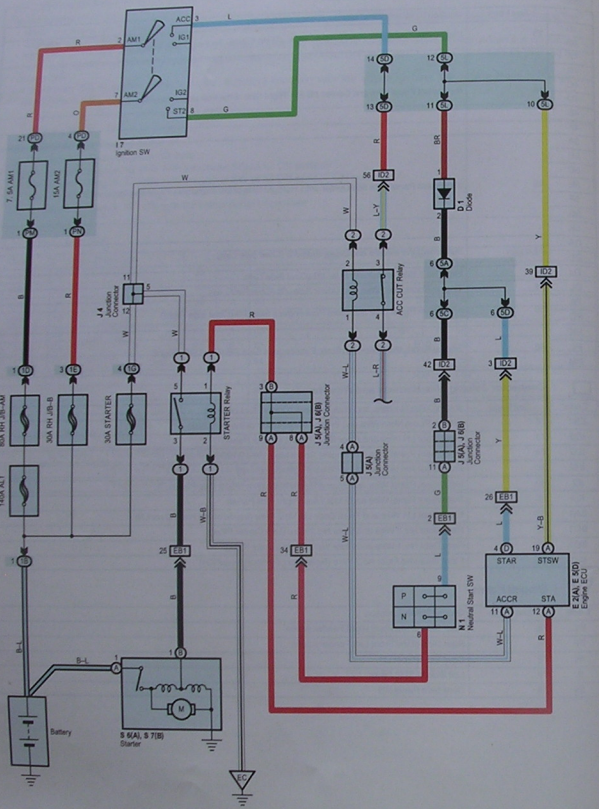
Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	23	Engine Room Main Wire and Engine Room J/B No.1 (Near the Front Right Suspention Tower)
1G		
4A	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4B		
4C		
4D		
4E		
4K		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5C		
5D		
5E		
5F		
5G		
5K		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
DJ	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
DL	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)
PL		
PM		

▢ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	76	Engine Room Main Wire and Engine Wire (Inside of the ECU Box)
IC2	78	Front Door LH Wire and Floor No.2 Wire (Left Kick Panel)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IH2	80	Front Door RH Wire and Floor Wire (Right Kick Panel)
II2	80	Instrument Panel Wire and Engine Room Main Wire (Right Kick Panel)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BA1	82	Front Door LH Wire and Front Door LH No.2 Wire (Inside of the Front Door LH)
BD1	82	Rear Door No.2 Wire and Floor No.2 Wire (Left Center Pillar)
BE1	82	Rear Door No.1 Wire and Floor Wire (Right Center Pillar)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

▽ : Ground Points

Code	See Page	Ground Points Location
EC	76	Rear Side of the Front Right Fender Apron
EF	76	Rear Side of the Front Left Fender Apron
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH



Service Hints

N1 Neutral Start SW
9–6 : Closed with the shift lever in P or N position

S6 (A), S7 (B) Starter
Point closed with the neutral start SW at P or N position and the ignition SW at ST position

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
D1		67	J3		64	N1		64
E2	A	63	J4		64	S6	A	65
E5	D	63	J5	A	64	S7	B	65
I7		67	J6	B	64			

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)
2	26	Engine Room R/B No.2 (Engine Compartment Left)

⬭ : Junction Block and Wire Harness Connector

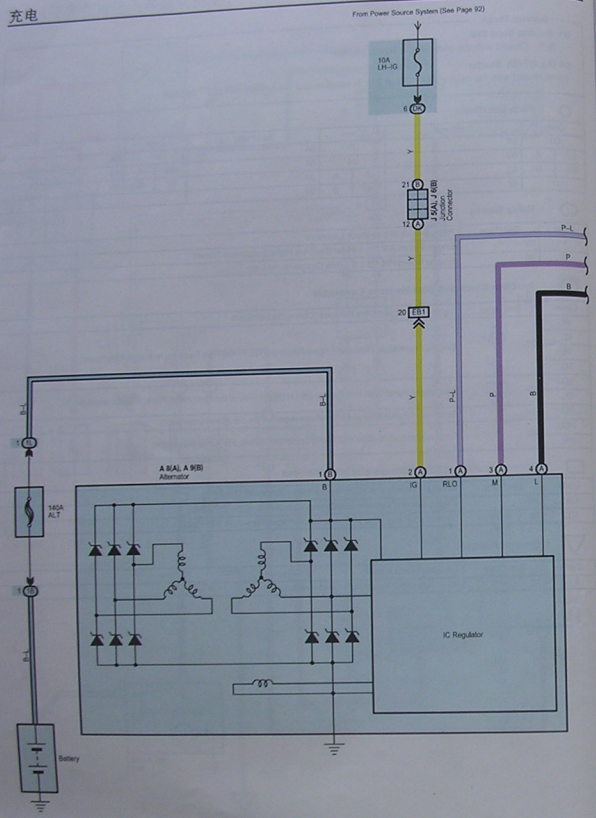
Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	23	Engine Room Main Wire and Engine Room J/B No.1 (Near the Front Right Suspention Tower)
1D		
1E		
1G		
5D	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5L		
PD	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PM	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)
PN		

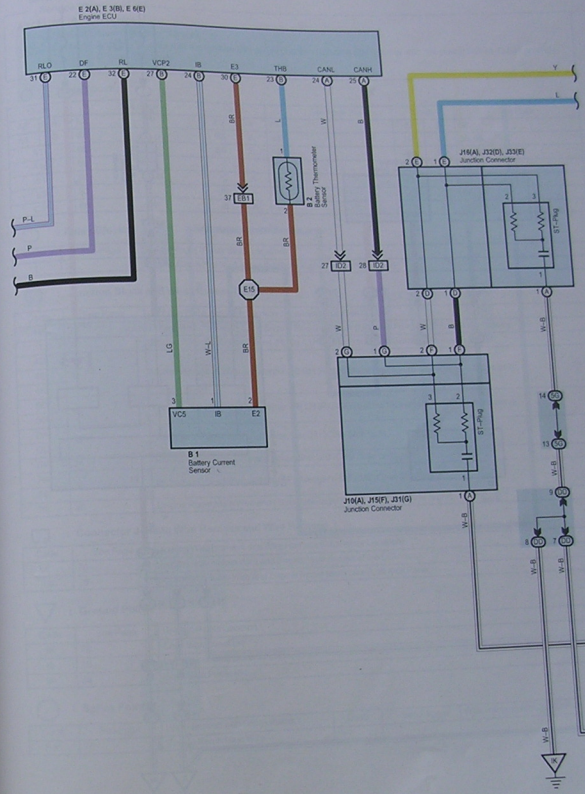
▭ : Connector Joining Wire Harness and Wire Harness

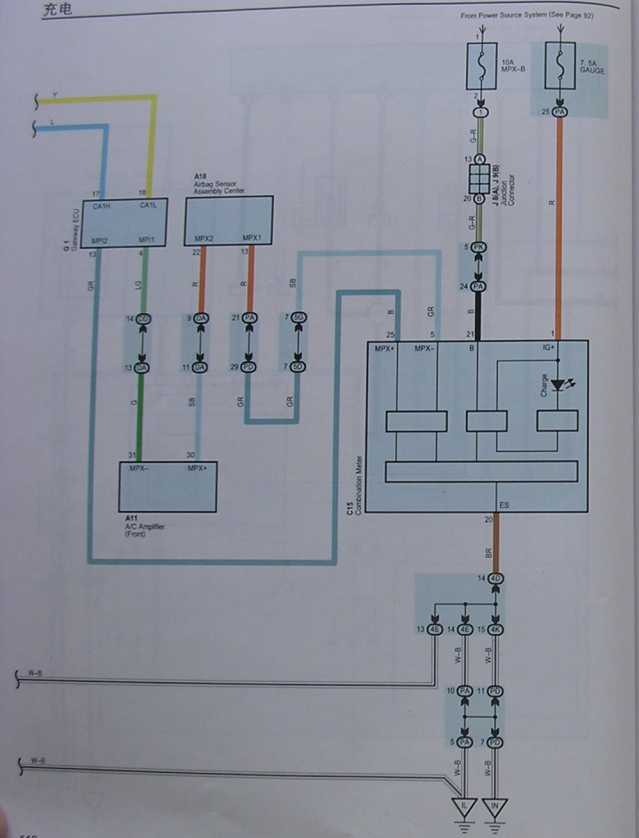
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	76	Engine Room Main Wire and Engine Wire (Inside of the ECU Box)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)

▽ : Ground Points

Code	See Page	Ground Points Location
EC	76	Rear Side of the Front Right Fender Apron


From Power Source System (See Page 92)
10A
LH-IG
6
IK
Y
21
12
1.5A(J,7.6B)
Junction
Connector
Y
P-L
P
B
20
EB1
A 8(A), A 9(B)
Alternator
B
IG
RLO
M
L
IC Regulator
140A
ALT
Battery


E 2(A), E 3(B), E 6(E)
Engine ECU
RLO
DF
RL
VCP2
IB
E3
THB
CANL
CANH
31
27
32
27
24
30
23
24
25
P-L
P
B
37
EB1
E15
BR
L
W
B
B 2
Battery Thermometer
Sensor
27
CL1
28
CL2
LG
W-L
BR
VC5
IB
E2
B 1
Battery Current
Sensor
J16(A), J32(D), J33(E)
Junction Connector
ST-Plug
J10(A), J15(F), J31(G)
Junction Connector
Y
L
W-B
14
13
9
8
7
W-B



Service Hints

A8 (A), A9 (B) Alternator

(B) 1–Ground : Always approx. 12 volts

(A) 2–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A8	A	62	E2	A	63	J9	B	68
A9	B	62	E3	B	63	J10	A	58, 68
A11		66	E6	E	63	J15	F	58, 68
A18		66	G1		67	J16	A	60, 68
B1		62	J5	A	64	J31	G	58, 68
B2		62	J6	B	64	J32	D	60, 68
C15		66	J8	A	68	J33	E	60, 68

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	23	Engine Room Main Wire and Engine Room J/B No.1 (Near the Front Right Suspention Tower)
1L	23	Engine Wire and Engine Room J/B No.1 (Near the Front Right Suspention Tower)
4D	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4E		
4K		
5D	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5G		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
DK	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)

▭ : Connector Joining Wire Harness and Wire Harness

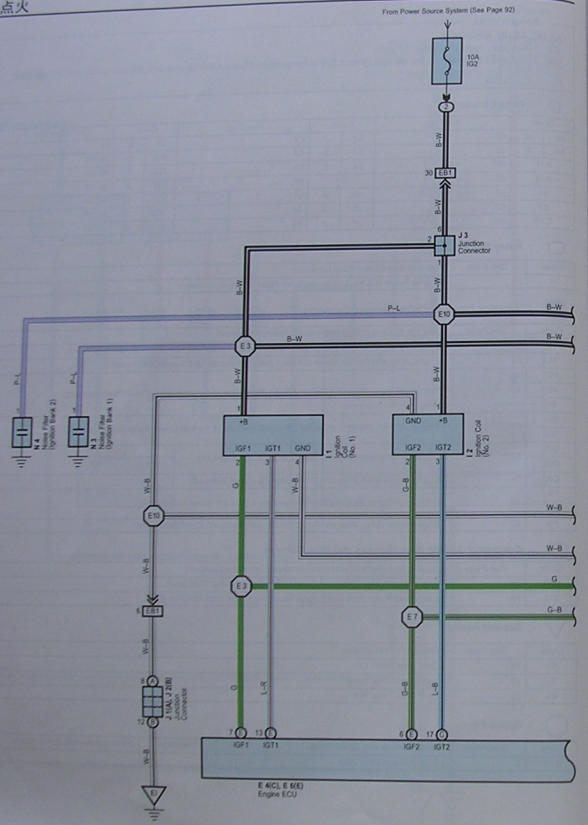
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	76	Engine Room Main Wire and Engine Wire (Inside of the ECU Box)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)

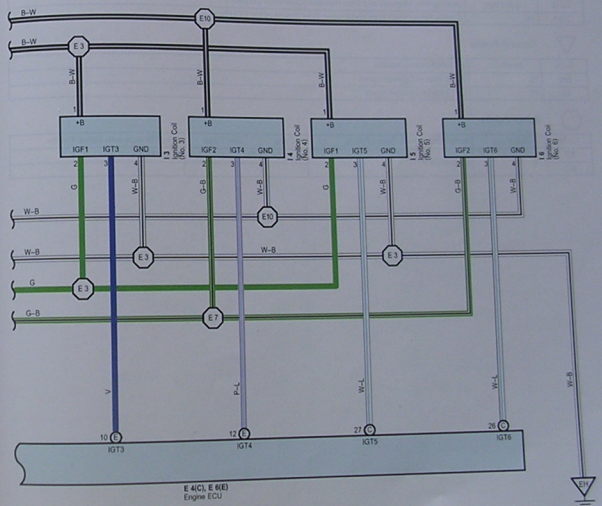
▽ : Ground Points

Code	See Page	Ground Points Location
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH

⬡ : Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E15	76	Engine Room Main Wire			


From Power Source System (See Page 92)
10A
IG2
B-W
30
EB1
J3
Junction
Connector
P-L
E10
E3
N1
Noise Filter
(Ignition Coil No. 2)
N2
Noise Filter
(Ignition Coil No. 1)
+B
IGF1
IGT1
GND
I1
Ignition
Coil
(No. 1)
GND
+B
IGF2
IGT2
I2
Ignition Coil
(No. 2)
W-B
G
G-B
L-R
E9
E7
6
EB1
12
EB2
2
3-Junction
Connector
7
IGF1
13
IGT1
6
IGF2
17
IGT2
E 4(C), E 6(E)
Engine ECU


B-W
E10
E3
+B
IGF1
IGT3
GND
I3
Ignition Coil
(No. 3)
IGF2
IGT4
GND
I4
Ignition Coil
(No. 4)
IGF1
IGT5
GND
I5
Ignition Coil
(No. 5)
IGF2
IGT6
GND
I6
Ignition Coil
(No. 6)
G
W-B
G-B
E9
E7
V
P-L
W-L
10
IGT3
12
IGT4
27
IGT5
26
IGT6
E 4(C), E 6(E)
Engine ECU

Service Hints

I1, I2, I3, I4, I5, I6 Ignition Coil (No.1, No.2, No.3, No.4, No.5, No.6)

1–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

4–Ground : Always continuity

○ : **Parts Location**

Code		See Page	Code	See Page	Code	See Page
E4	C	63	I4	64	J3	64
E6	E	63	I5	64	N3	64
I1		64	I6	64	N4	64
I2		64	J1 A	64		
I3		64	J2 B	64		

⬭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
2	26	Engine Room R/B No.2 (Engine Compartment Left)

□ : **Connector Joining Wire Harness and Wire Harness**

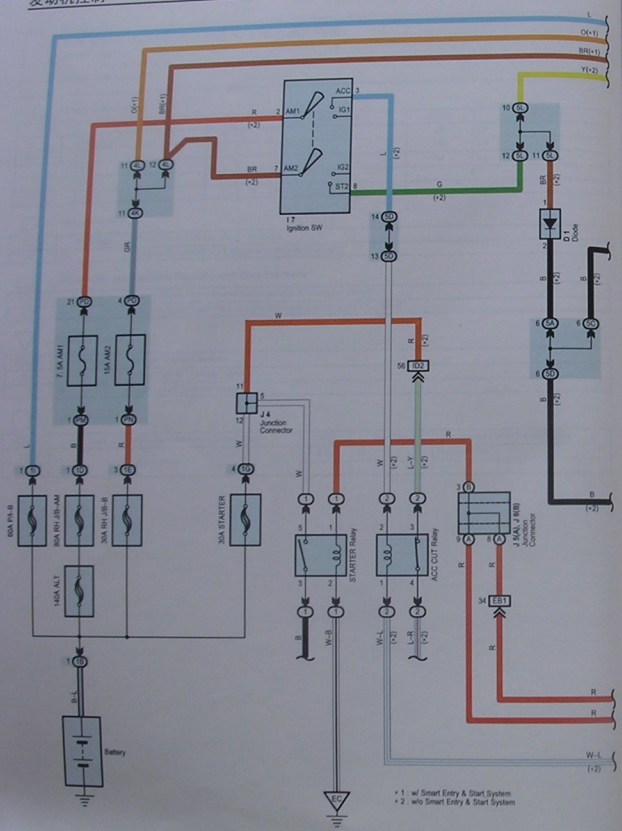
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	76	Engine Room Main Wire and Engine Wire (Inside of the ECU Box)

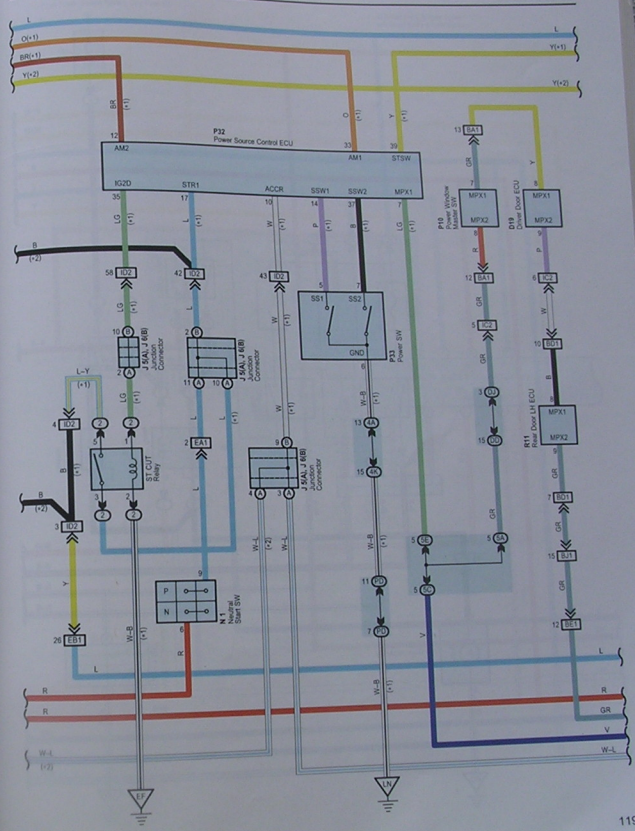
▽ : **Ground Points**

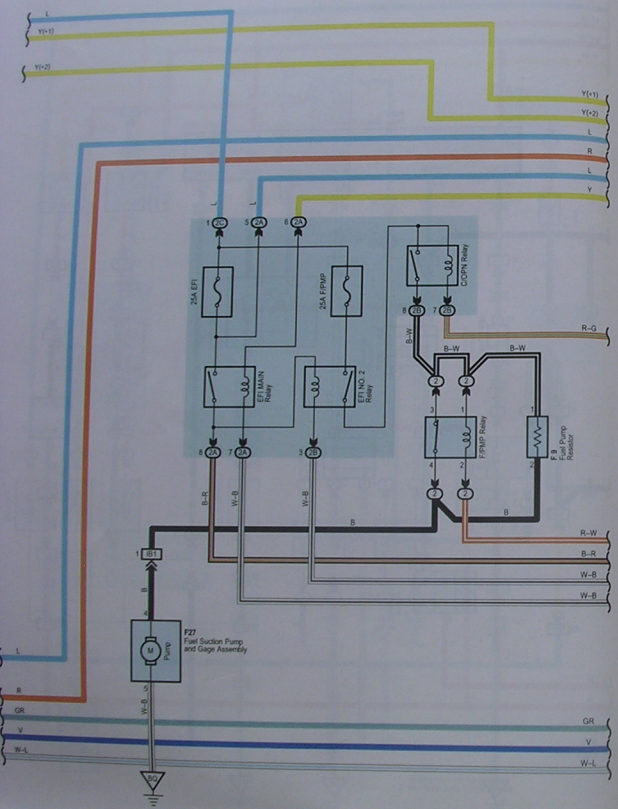
Code	See Page	Ground Points Location
EH	76	Right Side of Cylinder Head
EI	76	Left Side of Cylinder Head

◯ : **Splice Points**

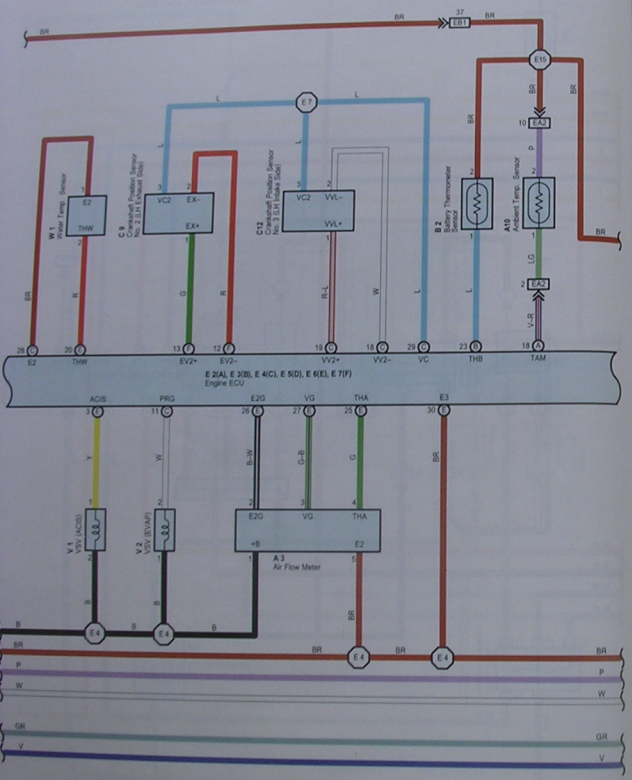
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E3	76	Engine Wire	E10	76	Engine Wire
E7					

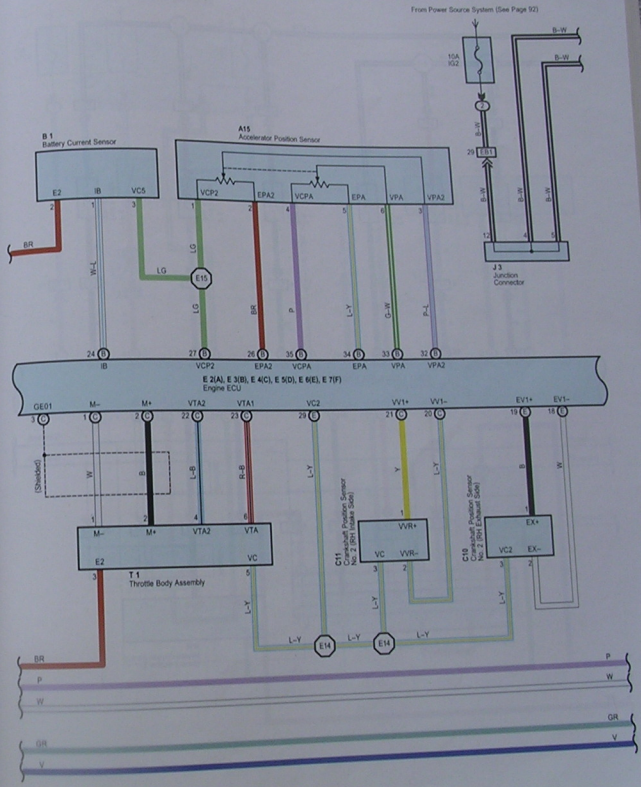

I7
Ignition SW
ACC
IG1
IG2
ST2
AM1
AM2
D1
Door
J4
Junction
Connector
7.5A AM1
15A AM2
60A PH-B
80A RH-JB-AM
30A RH-JB-B
140A ALT
30A STARTER
Battery
STARTER Relay
ACC CUT Relay
J 9(AL,J 6(B)
Junction
Connector
* 1 : w/ Smart Entry & Start System
* 2 : w/o Smart Entry & Start System

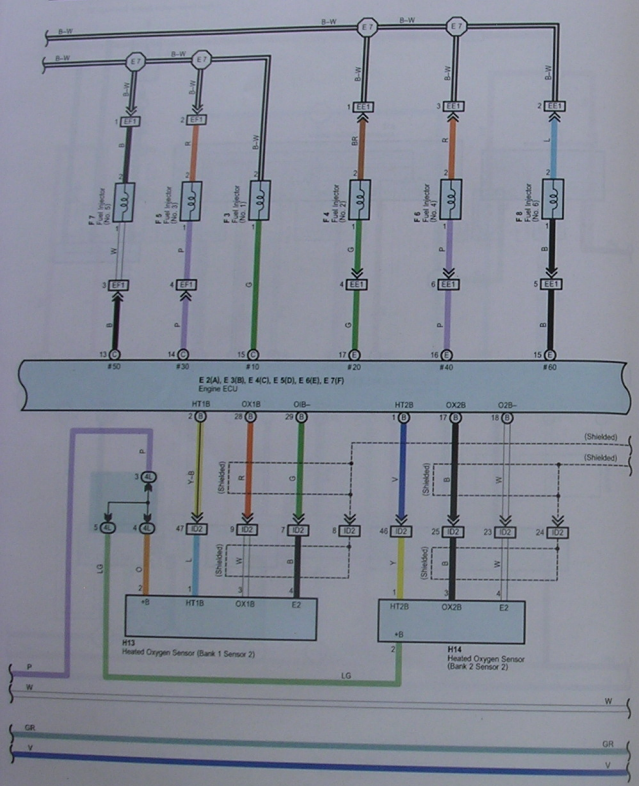

P32
Power Source Control ECU
AM2
AM1
STSW
IG2D
STR1
ACCR
SSW1
SSW2
MPX1
P33
Power SW
SS1
SS2
GND
J 9(AL,J 6(B)
Junction
Connector
STR CUT
Relay
N 1
Start SW
P18
Power Window
Master SW
D18
Door ECU
R11
Rear LH ECU
MPX1
MPX2

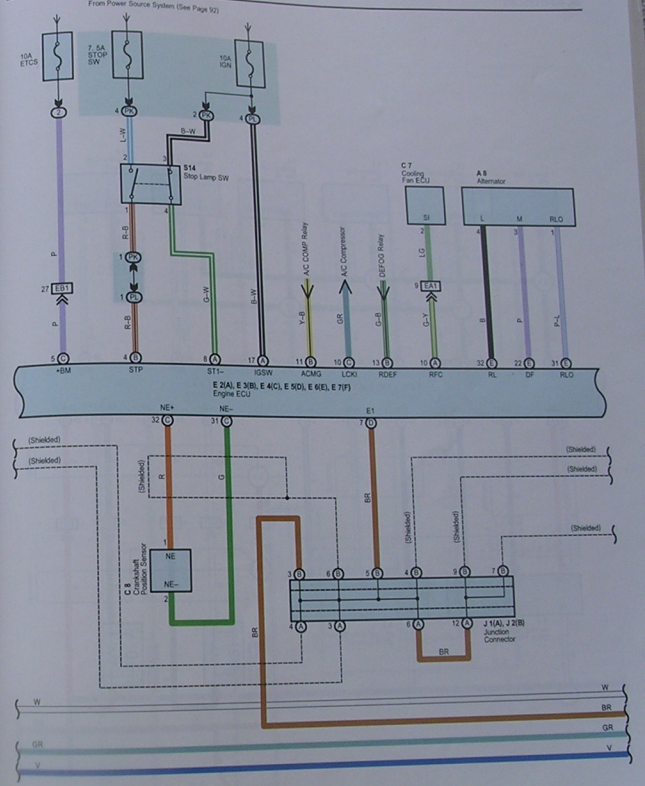


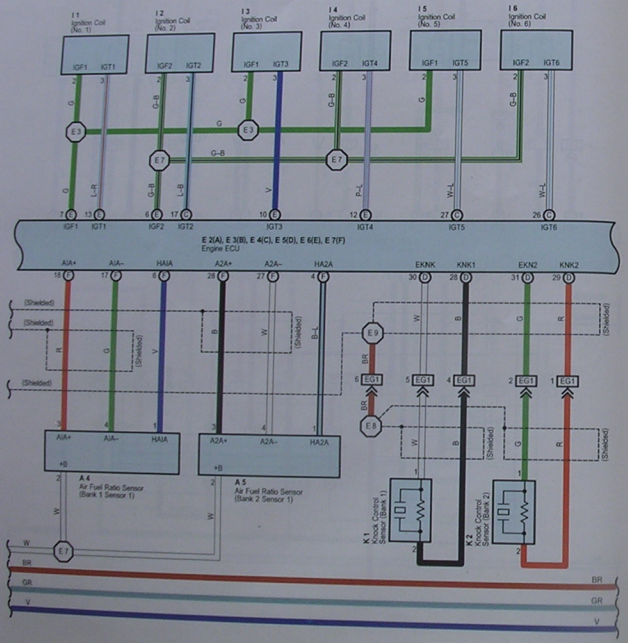
* 1 : w/ Smart Entry & Start System
* 2 : w/o Smart Entry & Start System

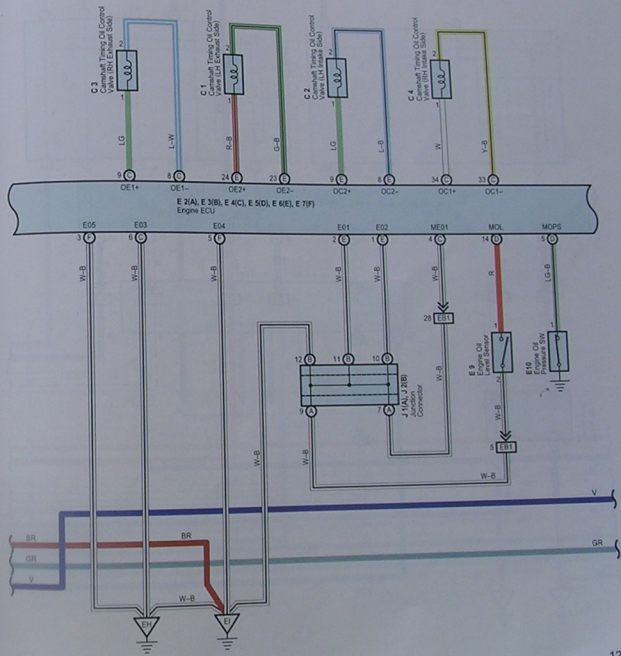

BR
37
EB1
E15
E7
L
W1
Water Temp. Sensor
E2
THW
C9
Crankshaft Position Sensor
No. 1 (Pulse Side)
VC2
EX−
EX+
C12
Crankshaft Position Sensor
No. 1 (Ground Side)
VC2
VVL−
VVL+
B2
Engine Thermometer
Sensor
A10
Intake Air Temp. Sensor
EA2
EA1
E2
THW
EV2+
EV2−
VV2+
VV2−
VC
THB
TAM
E 2(A), E 3(B), E 4(C), E 5(D), E 6(E), E 7(F)
Engine ECU
ACIS
PRG
E2G
VG
THA
E3
V1
VSV (ACIS)
V2
VSV (EVAP)
A3
Air Flow Meter
E2G
VG
THA
+B
E2
E4
GR
V
P
W

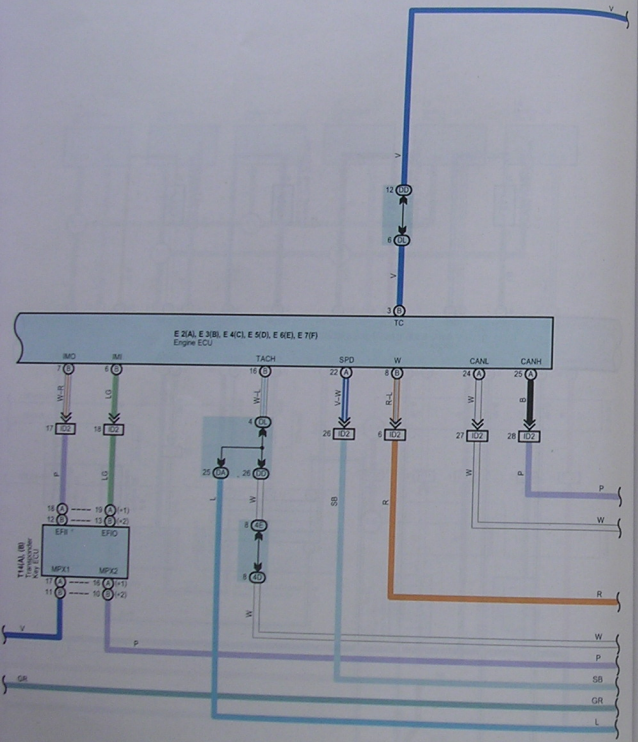

From Power Source System (See Page 92)
10A
IG2
B-W
J3
Junction
Connector
B1
Battery Current Sensor
A15
Accelerator Position Sensor
E2
IB
VC5
VCP2
EPA2
VCPA
EPA
VPA
VPA2
E15
IB
VCP2
EPA2
VCPA
EPA
VPA
VPA2
E 2(A), E 3(B), E 4(C), E 5(D), E 6(E), E 7(F)
Engine ECU
GE01
M−
M+
VTA2
VTA1
VC2
VV1+
VV1−
EV1+
EV1−
(Shielded)
T1
Throttle Body Assembly
M−
M+
VTA2
VTA
E2
VC
C11
Crankshaft Position Sensor
No. 2 RH (Intake Side)
VVR+
VC
VVR−
C10
Crankshaft Position Sensor
No. 2 RH (Exhaust Side)
EX+
VC2
EX−
E14
BR
P
W
GR
V

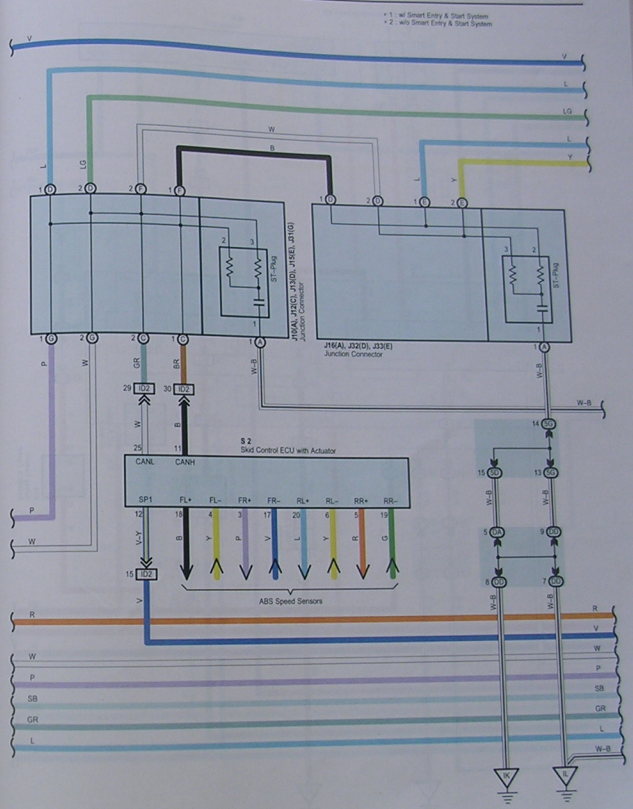

F7 Fuel Injector No. 1
F5 Fuel Injector No. 3
F3 Fuel Injector No. 5
F4 Fuel Injector No. 2
F6 Fuel Injector No. 4
F8 Fuel Injector No. 6
#50
#30
#10
#20
#40
#60
E 2(A), E 3(B), E 4(C), E 5(D), E 6(E), E 7(F)
Engine ECU
HT1B
OX1B
O1B–
HT2B
OX2B
O2B–
H13
Heated Oxygen Sensor (Bank 1 Sensor 2)
H14
Heated Oxygen Sensor (Bank 2 Sensor 2)
(Shielded)

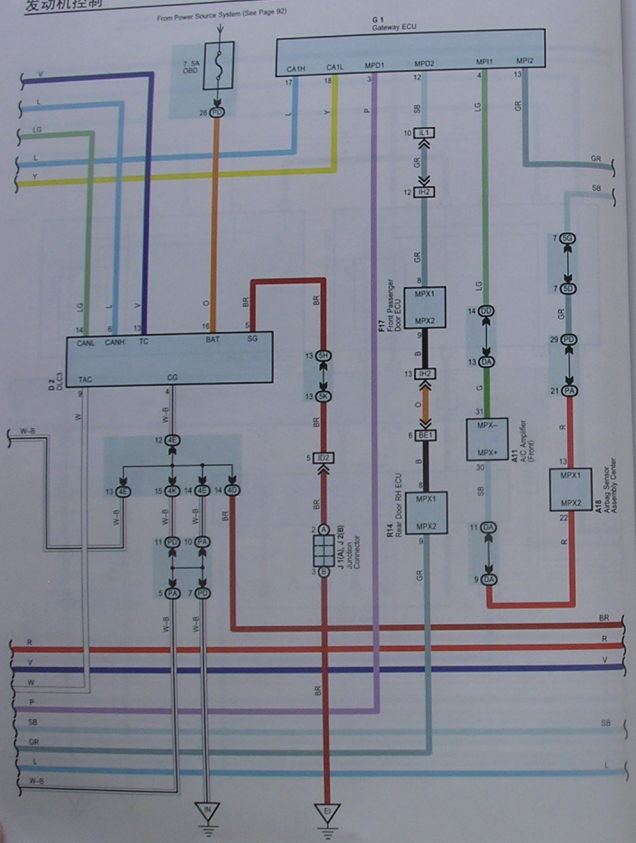

From Power Source System (See Page 92)
10A ETCS
7.5A STOP SW
10A IGN
S14 Stop Lamp SW
C 7 Cooling Fan ECU
A 8 Alternator
A/C COMP Relay
A/C Compressor
DEFOG Relay
+BM
STP
ST1–
IGSW
ACMG
LCKI
RDEF
RFC
RL
DF
RLO
E 2(A), E 3(B), E 4(C), E 5(D), E 6(E), E 7(F)
Engine ECU
NE+
NE–
E1
C 8 Crankshaft Position Sensor
J 1(A), J 2(B) Junction Connector
(Shielded)

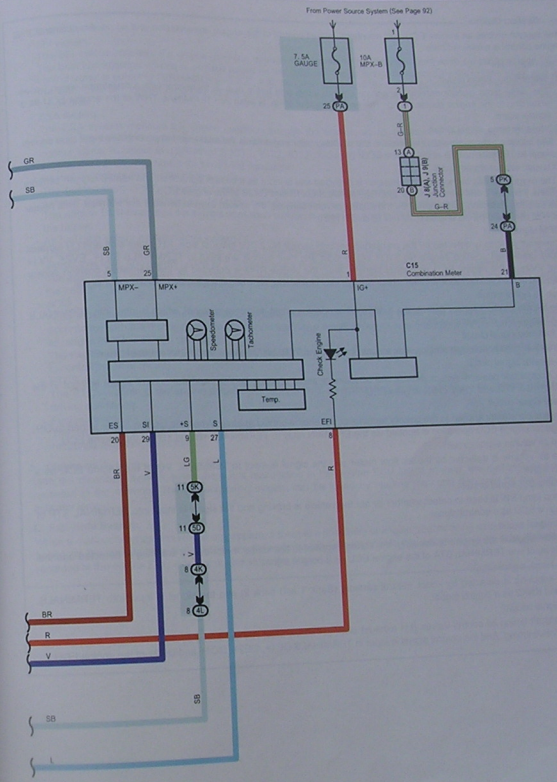

I 1 Ignition Coil (No. 1)
I 2 Ignition Coil (No. 2)
I 3 Ignition Coil (No. 3)
I 4 Ignition Coil (No. 4)
I 5 Ignition Coil (No. 5)
I 6 Ignition Coil (No. 6)
IGF1 IGT1
IGF2 IGT2
IGF1 IGT3
IGF2 IGT4
IGF1 IGT5
IGF2 IGT6
E3
E7
G–B
G
G–B
V
P–L
W–L
W–L
IGF1 IGT1 IGF2 IGT2 IGT3 IGT4 IGT5 IGT6
E 2(A), E 3(B), E 4(C), E 5(D), E 6(E), E 7(F)
Engine ECU
AIA+ AIA– HAIA A2A+ A2A– HA2A EKNK KNK1 EKN2 KNK2
(Shielded)
R
G
V
B
W
B–L
E9
E8
BR
EG1
A4
Air Fuel Ratio Sensor
(Bank 1 Sensor 1)
A5
Air Fuel Ratio Sensor
(Bank 2 Sensor 1)
K1
Knock Control
Sensor (Bank 1)
K2
Knock Control
Sensor (Bank 2)
+B
W
BR
GR
V


C 3
Camshaft Timing Oil Control
Valve (RH Exhaust Side)
C 1
Camshaft Timing Oil Control
Valve (LH Exhaust Side)
C 2
Camshaft Timing Oil Control
Valve (LH Intake Side)
C 4
Camshaft Timing Oil Control
Valve (RH Intake Side)
LG
L–W
R–B
G–B
LG
L–B
W
V–B
OE1+ OE1– OE2+ OE2– OC2+ OC2– OC1+ OC1–
E 2(A), E 3(B), E 4(C), E 5(D), E 6(E), E 7(F)
Engine ECU
E05 E03 E04 E01 E02 ME01 MOL MOPS
W–B
J 1(A), J 2(B)
Junction
Connector
E01
E9
Engine Oil
Level Sensor
E16
Engine Oil
Heater Relay
LG–B
R
V
BR
GR
E1


E 2(A), E 3(B), E 4(C), E 5(D), E 6(E), E 7(F)
Engine ECU
IMO
IMI
TACH
SPD
W
CANL
CANH
TC
EFI
EFI2
MPX1
MPX2
THAA (B)
Throttle Actuator
Assy (ETCS)


* 1 : w/ Smart Entry & Start System
* 2 : w/o Smart Entry & Start System
J16(A), J52(C), J13(D), J16(E), J31(G)
Junction Connector
ST-Plug
J16(A), J52(D), J53(E)
Junction Connector
S 2
Skid Control ECU with Actuator
CANL
CANH
SP1
FL+
FL-
FR+
FR-
RL+
RL-
RR+
RR-
ABS Speed Sensors


From Power Source System (See Page 92)
G 1
Gateway ECU
7.5A
OBD
CA1H
CA1L
MPD1
MPD2
MPI1
MPI2
D 2
DLC 3
CANL
CANH
TC
BAT
SG
TAC
CG
F17
Front Passenger Door ECU
MPX1
MPX2
R14
Rear Door RH ECU
A11
A/C Amplifier (Front)
A18
Airbag Sensor Assembly Center
J/A(L) 2 (RB)
Junction Connector


From Power Source System (See Page 92)
7.5A
GAUGE
10A
MPX-B
J/A(L) 3 (RB)
Junction Connector
C15
Combination Meter
MPX-
MPX+
IG+
Speedometer
Tachometer
Temp.
Check Engine
ES
SI
+S
S
EFI

System Outline

This system utilizes an engine ECU and maintains overall control of the engine, transmission and so on. An outline of the engine control is explained here.

1. Input Signals

(1) Water temp. signal circuit

The water temp. sensor detects the engine coolant temp. and has a built–in thermistor with a resistance which varies according to the engine coolant temp. The engine coolant temp. is input into TERMINAL THW of the engine ECU as a control signal.

(2) Intake air temp. signal circuit

The intake air temp. sensor is installed in the air flow meter and detects the intake air temp., which is input as a control signal to TERMINAL THA of the engine ECU.

(3) Oxygen sensor signal circuit

The oxygen density in the exhaust emission is detected and is input as a control signal from the heated oxygen sensors (Bank 1 sensor 2 and bank 2 sensor 2) to TERMINALS OX1B and OX2B of the engine ECU.

To stabilize detection performance by the heated oxygen sensors, the heated oxygen sensors are warmed. This heater is also controlled by the engine ECU (HT1B and HT2B).

(4) RPM signal circuit

Camshaft position is detected by the crankshaft position sensor No.2 (RH exhaust side, RH intake side and LH exhaust side), crankshaft position sensor No.3 (LH intake side) and their signals are input to TERMINALS EV1+, EV2+, VV1+ and VV2+ of the engine ECU as control signals. Also, the engine RPM is detected by the crankshaft position sensor installed in the cylinder block and the signal is input into TERMINAL NE+ of the engine ECU as a control signal.

(5) Throttle signal circuit

The throttle position sensor detects the throttle valve opening angle as a control signal, which is input into TERMINALS VTA1 and VTA2 of the engine ECU.

(6) Air fuel ratio signal circuit

The air fuel ratio is detected and input as a control signal into TERMINALS A1A+ and A2A+ of the engine ECU.

(7) Accelerator signal circuit

The Accelerator position sensor detects the accelerator pedal opening degree. And the control signal is input in the TERMINALS VPA and VPA2 of the engine ECU.

(8) Battery signal circuit

Voltage is constantly applied to the battery terminal of the engine control module. When the ignition SW is turned to ON, voltage for engine ECU operation is applied via the EFI MAIN relay to TERMINALS +B and +B1 of the engine ECU.

(9) Intake air volume signal circuit

Intake air volume is detected by the air flow meter and the signal is input to TERMINAL VG of the engine ECU as a control signal.

(10) Stop lamp SW signal circuit

The stop lamp SW is used to detect whether or not the vehicle is braking and the signal is input into TERMINAL STP of the engine ECU as a control signal.

(11) Starter signal circuit

To confirm whether the engine is cranking, the voltage applied to the starter motor during cranking is detected and the signal is input into TERMINAL STA of the engine ECU as a control signal.

(12) Engine knock signal circuit

Engine knocking is detected by knock control sensors (Bank 1 and bank 2) and the signal is input into TERMINALS KNK1 and KNK2 as a control signal.

(13) VVT–i signal circuit

The camshaft timing oil control valves (LH exhaust side, LH intake side, RH exhaust side and RH intake side) detects the real valve timing. And the control signal is input in TERMINALS OE1+, OE2+, OC1+ and OC2+ of the engine ECU.

2. Control System

- SFI system

The SFI system monitors the engine condition through the signals, which are input from each sensor to engine ECU. The best fuel injection volume is decided based on this data and the program memorized by the engine ECU, and the control signal is output to TERMINALS #10, #20, #30, #40, #50 and #60 of the engine ECU to operate the injector (Inject the fuel). The SFI system produces control of fuel injection operation by the engine ECU in response to the driving conditions.

- ESA system

The ESA system monitors the engine condition through the signals, which are input to the engine ECU from each sensor. The best ignition timing is decided according to this data and the memorized data in the engine ECU, and the control signal is output to TERMINALS IGT1, IGT2, IGT3, IGT4, IGT5 and IGT6. This signal controls the igniter to provide the best ignition timing for the driving conditions.

- Heated oxygen sensor heater control system

The heated oxygen sensor heater control system turns the heater on when the intake air volume is low (Temp. of exhaust emissions is low), and warms up the heated oxygen sensor to improve detection performance of the sensor.

The engine ECU evaluates the signals from each sensor, current is output to TERMINALS HT1B and HT2B, controlling the heater.

- Air fuel ratio sensor heater control system

The air fuel ratio sensor heater control system turns the heater on when the intake air volume is low (Temp. of exhaust emission is low), and warms up the air fuel ratio sensor to improve detection performance of the sensor.

The engine ECU evaluates the signals from each sensor, current is output to TERMINALS HA1A and HA2A, controlling the heater.

- ACIS

ACIS includes a valve in the bulkhead separating the surge tank into two parts. This valve is opened and closed in accordance with the driving conditions to control the intake manifold length in two stages for increased engine output in all ranges from low to high speeds.

The engine ECU judges the engine speed by the signals from each sensor and outputs signals to the TERMINAL ACIS to control the VSV (ACIS).

- ETCS–i

The ETCS–i controls the engine output at its optimal level corresponding to the opening of the throttle valve under all driving conditions.

- Fuel pump control

The engine ECU outputs current to TERMINAL FPR and controls the F/PMP relay and fuel pump drive speed in response to driving conditions.

3. Diagnosis System

With the diagnosis system, when there is a malfunction in the engine ECU signal system, the malfunctioning system is recorded in the memory. The malfunctioning system can be found by reading the code displayed by the check engine indicator lamp.

4. Fail–Safe System

When a malfunction has occurred in any system, if there is a possibility of engine trouble being caused by continued control based on the signals from that system, the fail–safe system either controls the system by using data (Standard values) recorded in the engine ECU memory or else stops the engine.

Service Hints

W1 Water Temp. Sensor

1–2 : Approx. 15.04 kΩ (–20°C, –4°F)
Approx. 5.74 kΩ (0°C, 32°F)
Approx. 2.45 kΩ (20°C, 68°F)
Approx. 1.15 kΩ (40°C, 104°F)
Approx. 0.584 kΩ (60°C, 140°F)
Approx. 0.318 kΩ (80°C, 176°F)

E2 (A), E3 (B), E4 (C), E5 (D), E6 (E), E7 (F) Engine ECU

BATT–E1 : Always 9.0–14.0 volts
+B–E1 : 9.0–14.0 volts (Ignition SW at ON position (Ignition SW type) or power SW at IG ON position (Power SW type))
VC–E1 : 4.5–5.5 volts (Ignition SW at ON position (Ignition SW type) or power SW at IG ON position (Power SW type))
VTA1–E3 : 0.5–1.1 volts (Ignition SW on (Ignition SW type) or power SW IG on (Power SW type) and throttle valve fully closed)
: 3.2–4.8 volts (Ignition SW on (Ignition SW type) or power SW IG on (Power SW type) and throttle valve fully open)
VTA2–E3 : 2.1–3.1 volts (Ignition SW on (Ignition SW type) or power SW IG on (Power SW type) and throttle valve fully closed)
: 4.5–5.5 volts (Ignition SW on (Ignition SW type) or power SW IG on (Power SW type) and throttle valve fully open)
VG–E2G : 0.5–3.0 volts (Engine idling)
THA–E3 : 0.5–3.4 volts (Engine idling and intake air temp. 20°C, 68°F)
THW–E2 : 0.2–1.0 volts (Engine idling and engine coolant temp. 80°C, 176°F)
IGF1–E1 : Pulse generation (Engine idling)
IGF2–E1 : Pulse generation (Engine idling)
VV1+ –VV1– : Pulse generation (Engine idling)
VV2+ –VV2– : Pulse generation (Engine idling)
NE+ –NE– : Pulse generation (Engine idling)
STA–E1 : 6.0 volts or more (Engine cranking)
FC–E1 : 9.0–14.0 volts (Ignition SW at ON position (Ignition SW type) or power SW at IG ON position (Power SW type))
0–3.0 volts (Engine idling)
PRG–E01 : 9.0–14.0 volts (Ignition SW at ON position (Ignition SW type) or power SW at IG ON position (Power SW type))
Pulse generation (Engine idling)
TACH–E1 : Pulse generation (Engine idling)
STP–E1 : 7.5–14.0 volts (Ignition SW on (Ignition SW type) or power SW IG on (Power SW type) and brake pedal depressed)
0–1.5 volts (Ignition SW on (Ignition SW type) or power SW IG on (Power SW type) and brake pedal released)
KNK1, KNK2–E1 : Pulse generation (Engine idling)
HT1B, HT2B–E1 : 9.0–14.0 volts (Ignition SW at ON position (Ignition SW type) or power SW at IG ON position (Power SW type))
0–3.0 volts (Engine idling)
IGT1, IGT2, IGT3, IGT4, IGT5, IGT6–E1 : Pulse generation (Engine idling)
#10, #20, #30, #40, #50, #60–E01 : Pulse generation (Engine idling)

: Parts Location

Code	See Page
A3	62
A4	62
A5	62
A8	62
A10	62
A11	66
A15	66
A18	66
B1	62
B2	62
C1	62
C2	62
C3	62
C4	62
C7	62
C8	62
C9	62
C10	62
C11	62
C12	62
C15	66
D1	67
D2	67
D19	70
E2 A	63
E3 B	63
E4 C	63
E5 D	63

Code	See Page
E6 E	63
E7 F	63
E9	63
E10	63
F3	63
F4	63
F5	63
F6	63
F7	63
F8	63
F9	63
F17	71
F27	71
G1	67
H13	67
H14	67
I1	64
I2	64
I3	64
I4	64
I5	64
I6	64
I7	67
J1 A	64
J2 B	64
J3	64
J4	64
J5 A	64

Code	See Page
J6 B	64
J8 A	68
J9 B	68
J10 A	58, 68
J12 C	58, 68
J13 D	58, 68
J15 E	58, 68
J16 A	60, 68
J31 G	58, 68
J32 D	60, 68
J33 E	60, 68
K1	64
K2	64
N1	64
P10	72
P32	68
P33	68
R11	72
R14	72
S2	65
S14	69
T1	65
T14 A	69
T14 B	69
V1	65
V2	65
W1	65

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)
2	26	Engine Room R/B No.2 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	23	Engine Room Main Wire and Engine Room J/B No.1 (Near the Front Right Suspention Tower)
1D		
1E		
1G		
1I		
2A	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
2B		
2C		
4A	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4D		
4E		
4K		
4L		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5C		
5D		
5E		
5G		
5K		
5L		
A	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
D		
J	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
L	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
A	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
D		
K		
L	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)
M		
N		

: Connector Joining Wire Harness and Wire Harness

de	See Page	Joining Wire Harness and Wire Harness (Connector Location)
1	76	Engine Room No.2 Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.2)
2		
1	76	Engine Room Main Wire and Engine Wire (Inside of the ECU Box)
1	76	Engine Wire and Engine No.7 Wire (Behind the Intake Manifold)
1	76	Engine No.6 Wire and Engine Wire (Behind the Intake Manifold)
1	76	Engine Wire and Engine No.5 Wire (Near the Engine Room R/B No.3)
1	78	Engine Room Main Wire and Floor No.2 Wire (Left Cowl Side Panel)
2	78	Front Door LH Wire and Floor No.2 Wire (Left Kick Panel)
2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
2	80	Front Door RH Wire and Floor Wire (Right Kick Panel)
1	82	Front Door LH Wire and Front Door LH No.2 Wire (Inside of the Front Door LH)
1	82	Rear Door No.2 Wire and Floor No.2 Wire (Let Center Pillar)
1	82	Rear Door No.1 Wire and Floor Wire (Right Center Pillar)
1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

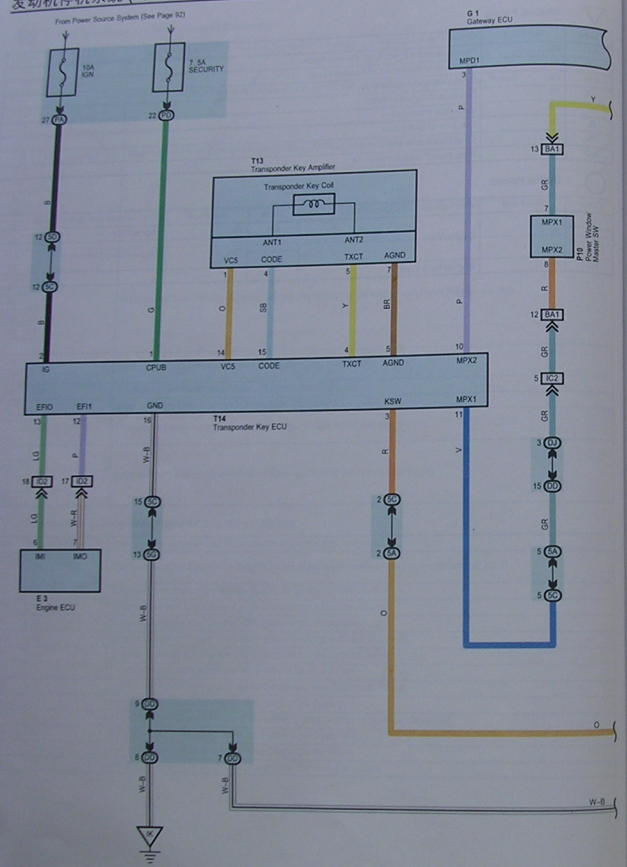
: Ground Points

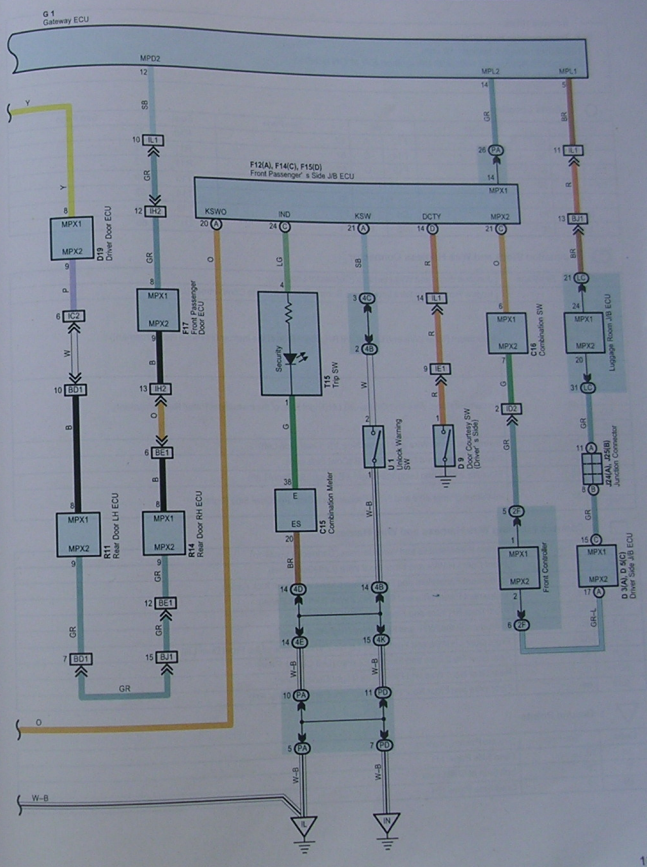
Code	See Page	Ground Points Location
EC	76	Rear Side of the Front Right Fender Apron
EE	76	Rear Side of the Front Left Fender Apron
EH	76	Right Side of Cylinder Head
EI	76	Left Side of Cylinder Head
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH
BQ	82	Rear Floor Partition Panel LH

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E3	76	Engine Wire	E9	76	Engine Wire
E4			E14	76	Engine Room Main Wire
E7			E15		
E8	76	Engine No.5 Wire			

发动机停机系统（不带智能进入和起动系统）





Service Hints

T14 Transponder Key ECU

1–Ground : Always approx. 12 volts
2–Ground : Approx. 12 volts with the ignition SW at ON position
16–Ground : Always continuity

○ : Parts Location

Code		See Page
C15		66
C16		66
D3	A	67
D5	C	67
D9		70
D19		70
E3		63
F12	A	67
F14	C	67
F15	D	67
F17		71
G1		67
J24	A	71
J25	B	71
P10		72
R11		72
R14		72
T13		69
T14		69
T15		69
U1		69

⬭ : Junction Block and Wire Harness Connector

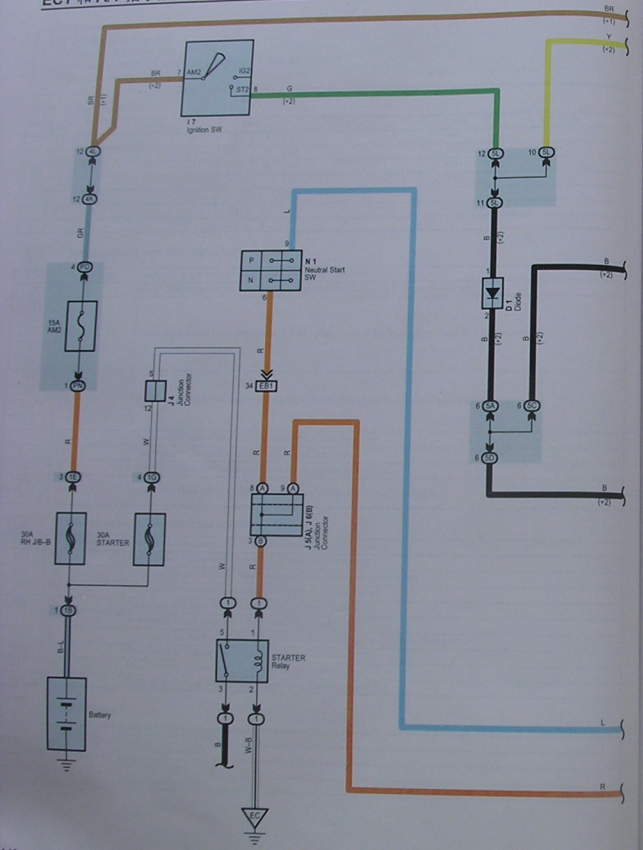
Code	See Page	Junction Block and Wire Harness (Connector Location)
2F	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
4B	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4C		
4D		
4E		
4K		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5C		
5D		
5G		
DD	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DJ	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
LC	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		

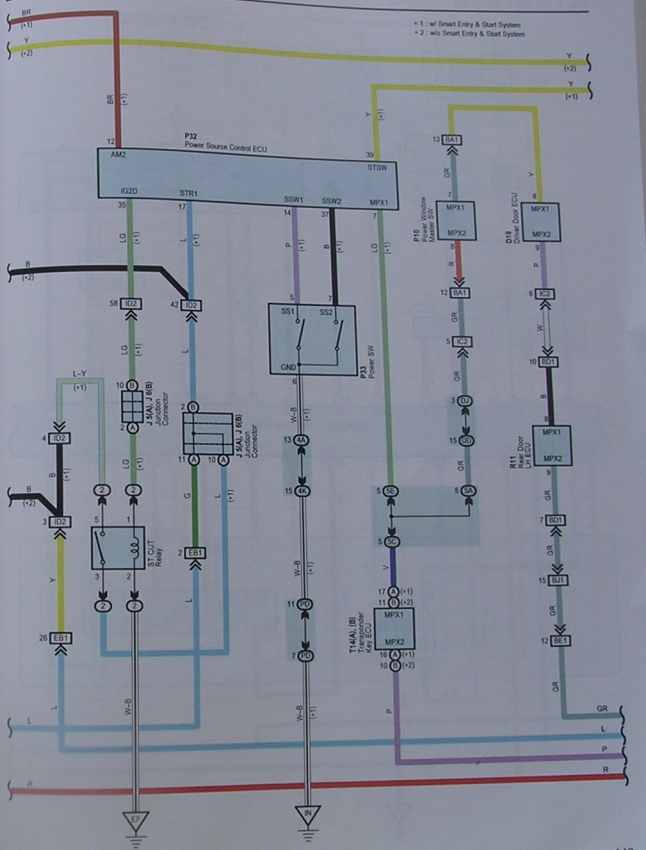
□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	78	Front Door LH Wire and Floor No.2 Wire (Left Kick Panel)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IE1	78	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
IH2	80	Front Door RH Wire and Floor Wire (Right Kick Panel)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BA1	82	Front Door LH Wire and Front Door LH No.2 Wire (Inside of the Front Door LH)
BD1	82	Rear Door No.2 Wire and Floor No.2 Wire (Left Center Pillar)
BE1	82	Rear Door No.1 Wire and Floor Wire (Right Center Pillar)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

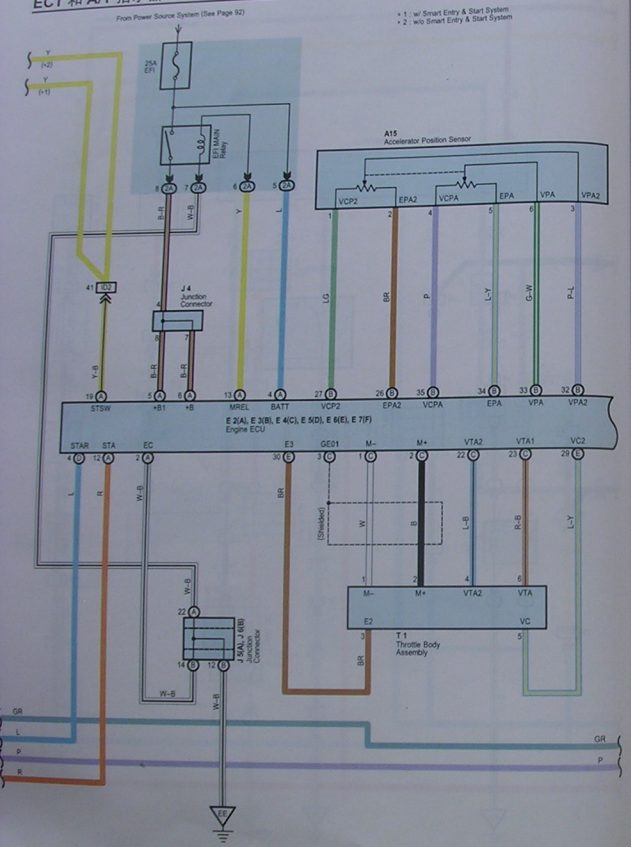
▽ : Ground Points

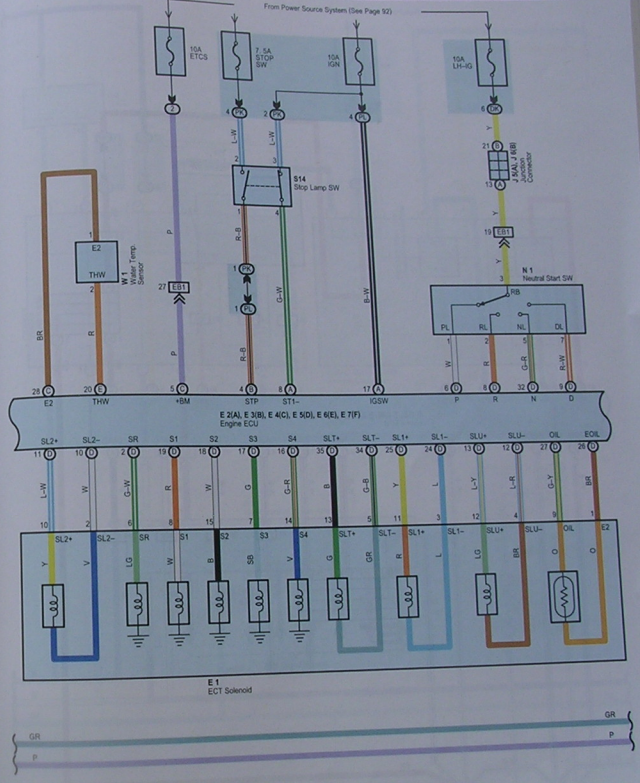
Code	See Page	Ground Points Location
IK	76	Cowl Side Panel LH
IL	76	Left Side of Shift Lever
IN	76	Cowl Side Panel RH


I 7
Ignition SW
N 1
Neutral Start SW
D 1
Diode
15A AM2
30A RH J/B-B
30A STARTER
J 4
Junction Connector
J 5A(J 6B)
Junction Connector
STARTER Relay
Battery
ECT

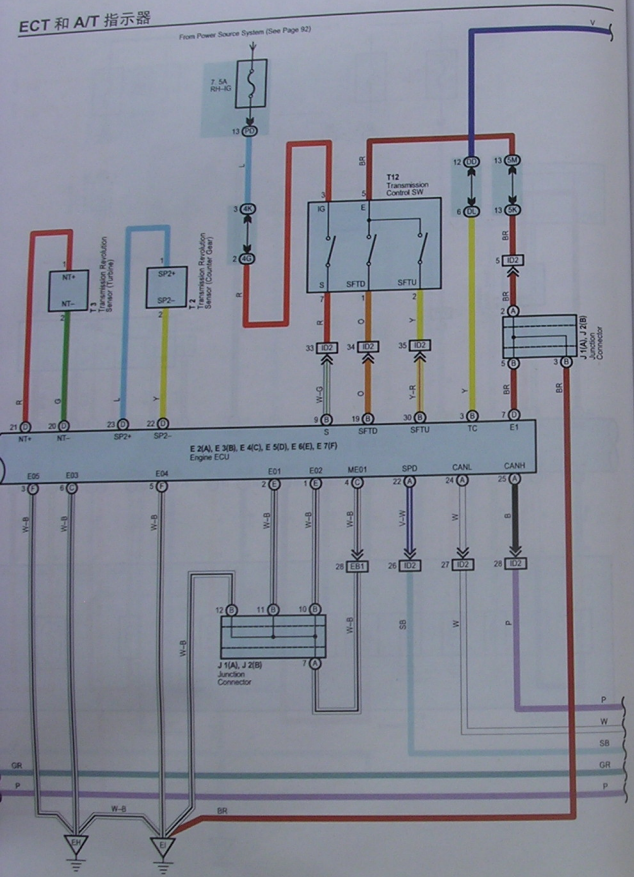

* 1 : w/ Smart Entry & Start System
* 2 : w/o Smart Entry & Start System
P32
Power Source Control ECU
AM2
IG2D
STR1
STSW
SSW1
SSW2
MPX1
MPX2
P33
Power SW
P18
Power Window Master SW
D13
Driver Door ECU
B11
Rear Door LH ECU
J 5A(J 6B)
Junction Connector
ST CUT Relay
T14A(J 8)
Transponder Key ECU
GND
IN

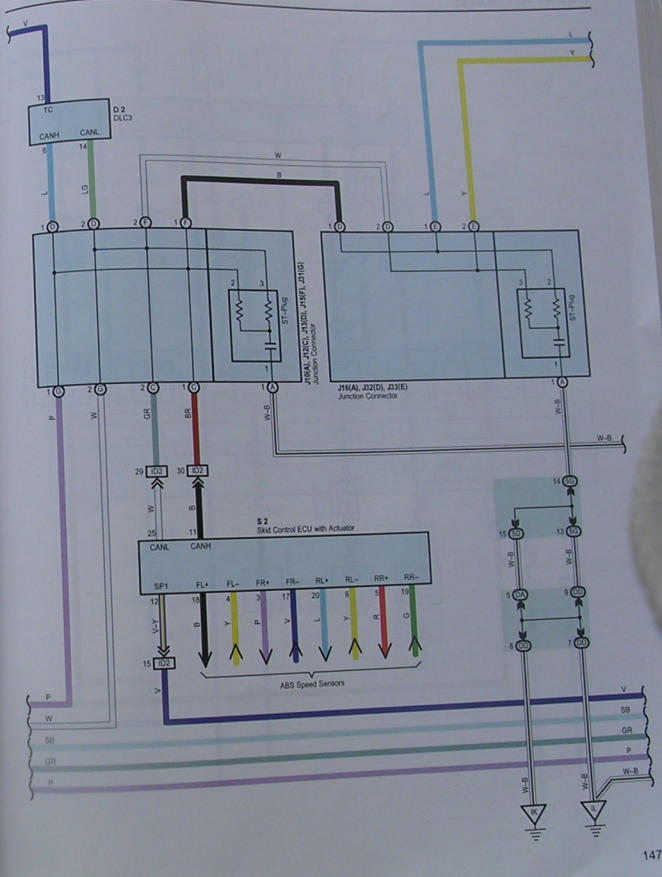
ECT 和 A/T 指示器

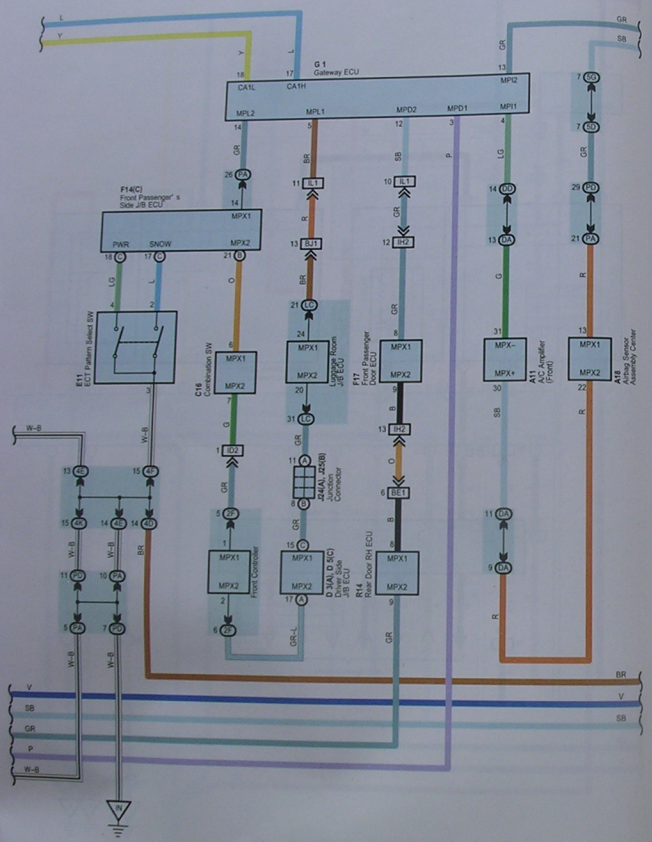

From Power Source System (See Page 92)
* 1 : w/ Smart Entry & Start System
* 2 : w/o Smart Entry & Start System
25A ETC
EFI Main Relay
A15
Accelerator Position Sensor
VCP2
EPA2
VCPA
EPA
VPA
VPA2
J 4
Junction Connector
STSW
+B1
+B
MREL
BATT
VCP2
EPA2
VCPA
EPA
VPA
VPA2
E 2(A), E 3(B), E 4(C), E 5(D), E 6(E), E 7(F)
Engine ECU
STAR
STA
EC
E3
GE01
M-
M+
VTA2
VTA1
VC2
(Shielded)
T 1
Throttle Body Assembly
M-
M+
VTA2
VTA
E2
VC
J 3(A), J 6(B)
Junction Connector
E7

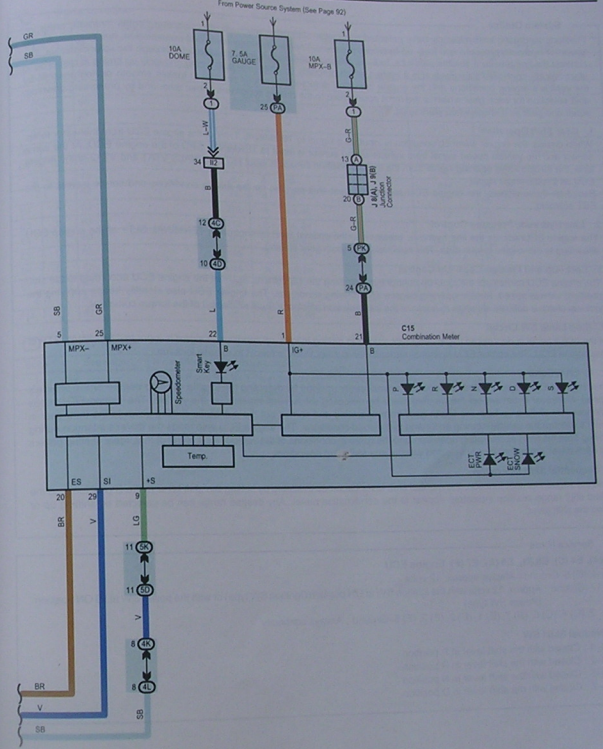

From Power Source System (See Page 92)
10A ETCS
7.5A STOP SW
10A IGN
10A LH-IG
S14
Stop Lamp SW
J 3(A), J 6(B)
Junction Connector
W 1
Water Temp. Sensor
N 1
Neutral Start SW
E 2(A), E 3(B), E 4(C), E 5(D), E 6(E), E 7(F)
Engine ECU
E2
THW
+BM
STP
ST1+
IGSW
P
R
N
D
E 1
ECT Solenoid

ECT 和 A/T 指示器


From Power Source System (See Page 92)
7.5A RH-IG
T12 Transmission Control SW
IG
E
S
SFTD
SFTU
T1 Transmission Revolution Sensor (Turbine)
T2 Transmission Revolution Sensor (Counter Gear)
NT+
NT-
SP2+
SP2-
J 1(A), J 2(B) Junction Connector
E 2(A), E 3(B), E 4(C), E 5(D), E 6(E), E 7(F) Engine ECU
TC
E1
CANL
CANH
SPD
ME01
E01
E02
E03
E04
E05
J 1(A), J 2(B) Junction Connector
ID2
EB1
W-B
BR
SB
GR
P
W
V
Y
L
R
G
O
B


D 2 DLC3
TC
CANH
CANL
J16(A), J22(C), J23(D), J18(F), J31(G) Junction Connector
J16(A), J22(D), J33(E) Junction Connector
ST-Plug
S 2 Skid Control ECU with Actuator
SP1
FL+
FL-
FR+
FR-
RL+
RL-
RR+
RR-
ABS Speed Sensors
W-B
BR
GR
SB
P
W
V
Y
L
G
B


G1
Gateway ECU
CAN-L
CAN-H
MPL2
MPL1
MPD2
MPD1
MPI2
MPI1
F14(C)
Front Passenger's Side J/B ECU
MPX1
MPX2
PWR
SNOW
E11
ECT Pattern Select SW
C16
Combination SW
Front Controller
Luggage Room J/B ECU
J/A(A), J/B(B)
Connector
D J/A(I, D &C)
Driver Side J/B ECU
F17
Front Passenger Door ECU
R14
Rear Door RH ECU
A11
A/C Amplifier (Front)
A18
Airbag Sensor Assembly Center
W-B
BR
V
SB
GR
P


From Power Source System (See Page 92)
10A
DOME
7.5A
GAUGE
10A
MPX-B
J/A(I, J/B)
Junction Connector
C15
Combination Meter
MPX-
MPX+
IG+
Speedometer
Smart Key
Temp.
ECT
PWR
SNOW
ES
SI
+S
BR
V
SB
GR
LG

System Outline

Previous automatic transmissions have selected each gear shift using mechanically controlled throttle hydraulic pressure, governor hydraulic pressure and lock–up hydraulic pressure. The electronically controlled transmission, however, electrically controls the line pressure, throttle pressure, lock–up pressure and accumulator pressure etc. through the solenoid valve. The electronically controlled transmission is a system which precisely controls gear shift timing and lock–up timing in response to the vehicle's driving conditions and the engine condition detected by various sensors. It makes smooth driving possible by shift selection for each gear which is the most appropriate to the driving conditions at that time, and by preventing downing, squat and gear shift shock when starting off.

1. Gear Shift Operation

When driving, the engine warm up condition is input as a signal to TERMINAL THW of the engine ECU from the water temp. sensor and the vehicle speed signal from vehicle speed sensor is input to TERMINAL SPD of the engine ECU. At the same time, the throttle valve opening signal from the throttle position sensor is input to TERMINALS VTA1 and VTA2 of the engine ECU as throttle angle signal.

Based on these signals, the engine ECU selects the best shift position for the driving conditions and sends current to the ECT solenoid.

2. Line Hydraulic Pressure Control

The engine ECU adjusts the line hydraulic pressure to the optimal level by controlling TERMINAL SLT+ of the engine ECU according to the engine torque data. This realizes the smooth gear shifting.

3. Lock–Up and Flexible Lock–Up Control

The engine ECU carries out the lock–up control by controlling the TERMINAL SLU+ of the engine ECU according to the shift position, vehicle speed, throttle opening degree and running conditions. The engine ECU also steadily keeps applying the lock–up clutch a delicate slippage to improve the transmission efficiency (Fuel efficiency) of the torque converter.

4. Stop Lamp SW Circuit

If the brake pedal is depressed (Stop lamp SW on) when driving in lock–up condition, a signal is input to TERMINAL STP of the engine ECU. The engine ECU operates and cuts the current to the solenoid to release lock–up.

5. AI–Shift Control

The engine ECU judges whether the road is downslope or upslope by detecting the throttle opening degree or the vehicle's speed. Moreover it can expect the winding roads by detecting the turning condition of the vehicle. The engine ECU keeps unnecessary shifting up from the fourth gear from operating and carries out the automatic shifting down to the third gear in order to control the vehicle running according to the road conditions. The engine ECU also reads the driver's intention during driving from his (her) accelerating operation and the running conditions of the vehicle. As a result of that, ideal shifting patters for each driver are automatically selected without any switching operations.

6. Sequential Shift Operation

With the sequential shift function, the manual shift lever becomes available by setting the shift lever to the S position, and the S and shift range position indicators appear in the combination meter. Any desired range can be selected by shifting up or down the shift lever.

Service Hints

E2 (A), E4 (C), E5 (D), E6 (E), E7 (F) Engine ECU

(A) 4, (C) 5–Ground : Always approx. 12 volts

(A) 17–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

(A) 2, (C) 4, (C) 6, (D) 7, (E) 1, (E) 2, (F) 3, (F) 5–Ground : Always continuity

N1 Neutral Start SW

3–1 : Closed with the shift lever in P position
3–2 : Closed with the shift lever in R position
3–5 : Closed with the shift lever in N position
3–7 : Closed with the shift lever in D position

○ : **Parts Location**

Code		See Page
A11		66
A15		66
A18		66
C15		66
C16		66
D1		67
D2		67
D3	A	67
D5	C	67
D19		70
E1		63
E2	A	63
E3	B	63
E4	C	63
E5	D	63
E6	E	63
E7	F	63
E11		67
F14	C	67
F17		71
G1		67
I7		67
J1	A	64
J2	B	64
J3		64
J4		64
J5	A	64
J6	B	64
J8	A	68
J9	B	68
J10	A	58, 68
J12	C	58, 68
J13	D	58, 68
J15	E	58, 68
J16	A	60, 68
J24	A	71
J25	B	71
J31	G	58, 68
J32	D	60, 68
J33	E	60, 68
N1		64
P10		72
P32		68
P33		68
R11		72
R14		72
S2		65
S14		69
T1		65
T2		65
T3		65
T12		69
T14	A	69
	B	69
W1		65

○ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)
2	26	Engine Room R/B No.2 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	23	Engine Room Main Wire and Engine Room J/B No.1 (Near the Front Right Suspention Tower)
1E		
1G		
2A	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
2F		
4A	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4C		
4D		
4E		
4F		
4G		
4K		
4L		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5C		
5D		
5E		
5G		
5K		
5L		
5M		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
DJ	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
DK	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
DL		
LC	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)
PL		
PN		

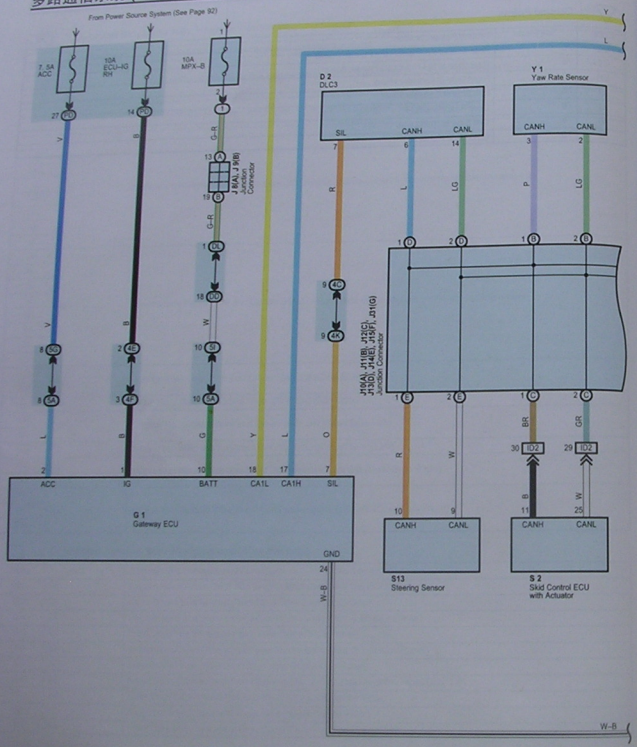
: Connector Joining Wire Harness and Wire Harness

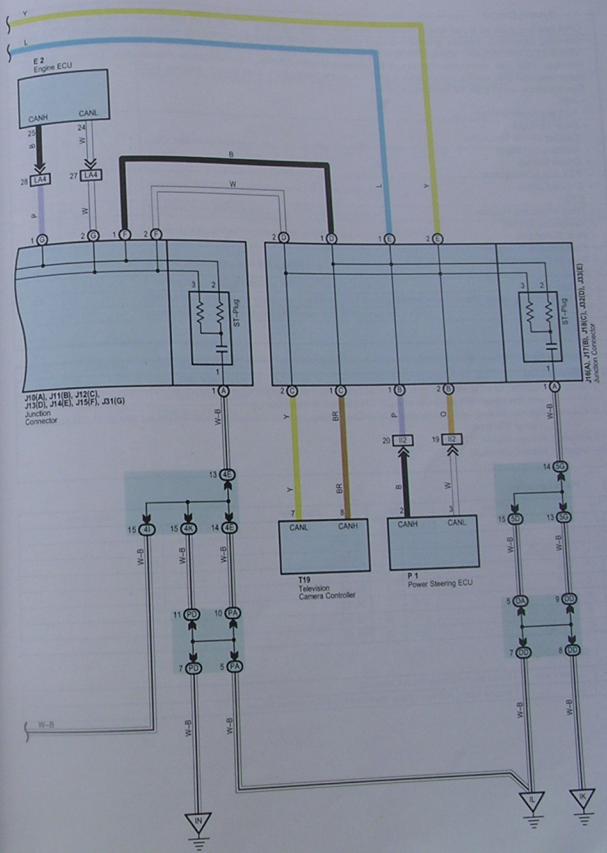
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	76	Engine Room Main Wire and Engine Wire (Inside of the ECU Box)
IC2	78	Front Door LH Wire and Floor No.2 Wire (Left Kick Panel)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IH2	80	Front Door RH Wire and Floor Wire (Right Kick Panel)
II2	80	Instrument Panel Wire and Engine Room Main Wire (Right Kick Panel)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BA1	82	Front Door LH Wire and Front Door LH No.2 Wire (Inside of the Front Door LH)
BD1	82	Rear Door No.2 Wire and Floor No.2 Wire (Left Center Pillar)
BE1	82	Rear Door No.1 Wire and Floor Wire (Right Center Pillar)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

: Ground Points

Code	See Page	Ground Points Location
EC	76	Rear Side of the Front Right Fender Apron
EE	76	Rear Side of the Front Left Fender Apron
EH	76	Right Side of Cylinder Head
EI	76	Left Side of Cylinder Head
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH

多路通信系统 (CAN)


From Power Source System (See Page 92)
7.5A ACC
10A ECU-IG RH
10A MPX-B
J14(A), J18(B) Junction Connector
D 2 DLC3
SIL
CANH
CANL
Y 1 Yaw Rate Sensor
J10(A), J11(B), J12(C), J13(D), J14(E), J15(F), J31(G) Junction Connector
G 1 Gateway ECU
ACC
IG
BATT
CA1L
CA1H
SIL
GND
S13 Steering Sensor
S 2 Skid Control ECU with Actuator
W-B


E 2 Engine ECU
CANH
CANL
ST-Plug
J10(A), J11(B), J12(C), J13(D), J14(E), J15(F), J31(G) Junction Connector
J14(A), J18(B), J19(C), J33(D), J33(E) Junction Connector
T19 Television Camera Controller
P 1 Power Steering ECU
W-B

多路通信系统 (CAN)

System Outline

CAN has two lines as a pair which make communication with operating voltage. CAN has excellent data speed and error detecting capacity. It consists of vehicle control systems such as engine ECU, yaw rate sensor, power steering ECU, skid control ECU with actuator, steering sensor, DLC3, television camera controller (w/ navigation system) and gateway ECU. Gateway ECU has communication circuit to correspond with different types of communication data. Different types of communication data can be shared among communication parts after it goes through gateway ECU.

This system is working for the following systems:

- ABS
- Air Conditioner (Front)
- Back-Up Light
- Cellular Mobile Telephone
- Combination Meter
- Cruise Control
- ECT and A/T Indicator
- Engine Control
- EPS
- Front Wiper and Washer
- Navigation System
- Rear Sunshade
- Rear Window Defogger
- Remote Control Mirror
- SRS
- Starting
- TOYOTA Parking Assist (Back Guide Monitor)
- TRC
- VSC

Service Hints

G1 Gateway ECU

2–Ground : Approx. 12 volts with the ignition SW at ON or ACC position (Ignition SW type) or with the power SW at IG ON or ACC ON position (Power SW type)

1–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

10–Ground : Always approx. 12 volts

24–Ground : Always continuity

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
D2	67	J13 D	58, 68	J33 E	60, 68
E2	63	J14 E	58, 68	P1	64
G1	67	J15 F	58, 68	S2	65
J8 A	68	J16 A	60, 68	S13	69
J9 B	68	J17 B	60, 68	T19	69
J10 A	58, 68	J18 C	60, 68	Y1	69
J11 B	58, 68	J31 G	58, 66		
J12 C	58, 68	J32 D	60, 66		

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
4C	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4E		
4F		
4I		
4K		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5D		
5G		
5I		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
DL	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PA		
PD		

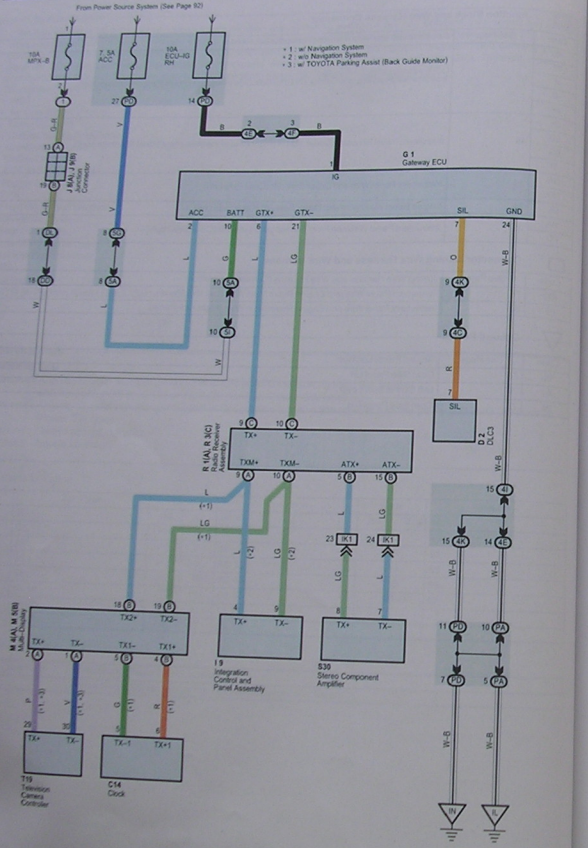
▭ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
II2	80	Instrument Panel Wire and Engine Room Main Wire (Right Kick Panel)

▽ : Ground Points

Code	See Page	Ground Points Location
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH

多路通信系统 (AVC-LAN)



System Outline

AVC–LAN consists of audio visual systems such as radio receiver assembly, multi–display (w/ navigation system), integration control and panel assembly (w/o navigation system), clock (w/ navigation system), stereo component amplifier, television camera controller (w/ navigation system), clock (w/ navigation system) and gateway ECU. Gateway ECU has communication circuit to correspond with different types of communication data. Different types of communication data can be shared among communication parts after it goes through gateway ECU.

This system is working for the following systems:

- Air Conditioner (Front)
- Air Conditioner (Rear)
- Audio System
- Clock (w/ Navigation System)
- Mirror Heater
- Navigation System
- Rear Window Defogger
- TOYOTA Parking Assist (Back Guide Monitor)

Service Hints

G1 Gateway ECU

2–Ground : Approx. 12 volts with the ignition SW at ON or ACC position (Ignition SW type) or with the power SW at IG ON or ACC ON position (Power SW type)
1–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
10–Ground : Always approx. 12 volts
24–Ground : Always continuity

○ : Parts Location

Code	See Page	Code		See Page	Code		See Page
C14	66	J8	A	68	R1	A	68
D2	67	J9	B	68	R3	C	68
G1	67	M4	A	68	S30		73
I9	67	M5	B	68	T19		69

▭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

▭ : Junction Block and Wire Harness Connector

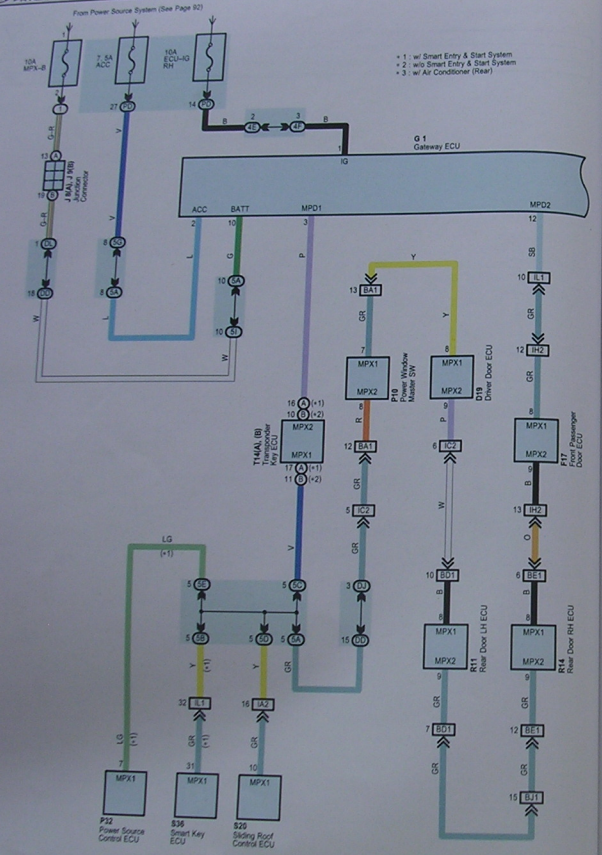
Code	See Page	Junction Block and Wire Harness (Connector Location)
4C	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4E		
4F		
4I		
4K		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5G		
5I		
DD	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DL	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		

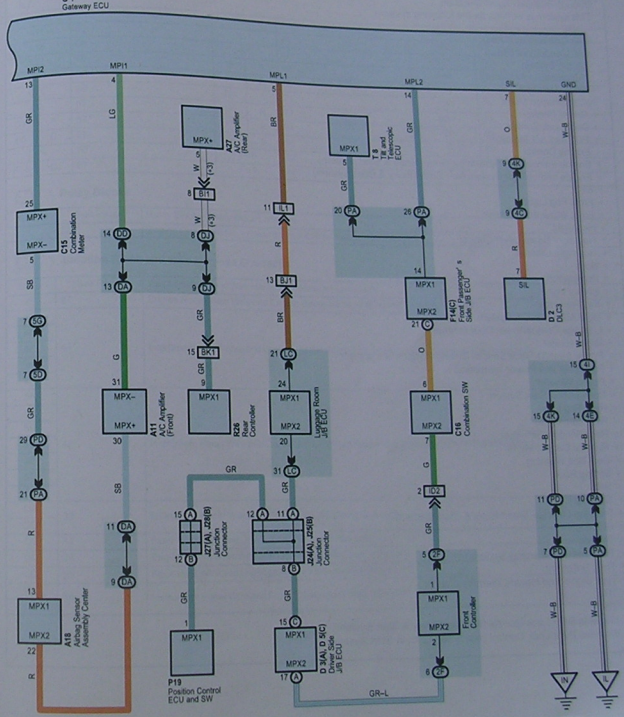
▭ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IK1	80	Instrument Panel Wire and Floor Wire (Under the Rear Console)

▽ : Ground Points

Code	See Page	Ground Points Location
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH


From Power Source System (See Page 92)
10A MPX-B
7.5A ACC
10A ECU-IG2 RH
+1 : w/ Smart Entry & Start System
+2 : w/o Smart Entry & Start System
+3 : w/ Air Conditioner (Rear)
G 1 Gateway ECU
ACC
BATT
MPD1
MPD2
IG
J 9(A), J 9(B) Junction Connector
T14(A), (B) Transponder Key ECU
P10 Power Window Master SW
D19 Driver Door ECU
F17 Front Passenger Door ECU
R11 Rear Door LH ECU
R14 Rear Door RH ECU
P12 Power Source Control ECU
S36 Smart Key ECU
S20 Sliding Roof Control ECU
LG (+1)


G 1 Gateway ECU
MPI2
MPI1
MPL1
MPL2
S/L
GND
C15 Combination Meter
A18 Air Bag Sensor Assembly Center
A11 A/C Amplifier (Front)
A27 A/C Amplifier (Rear)
R26 Main Body Controller
J 4(A), J 4(B) Junction Connector
T8 Tilt and Telescopic ECU
C16 Combination SW
F14(C) Front Passenger's Side ECB (LIN)
Front Controller
P19 Position Control ECU and SW
D 3(A), D 3(C) Junction Connector
D2 DLC3
GR-L

多路通信系统 (BEAN)

System Outline

BEAN consists of body electrical systems such as transponder key ECU, sliding roof control ECU, front passenger's door ECU, rear door LH ECU, rear door RH ECU, driver door ECU, power window master SW, A/C amplifier (Front), rear controller, A/C amplifier (Rear), airbag sensor assembly center, combination meter, luggage room J/B ECU, front passenger's side J/B ECU, front controller, combination SW, driver side J/B ECU, tilt and telescopic ECU, gateway ECU, power source control ECU (w/ smart entry system), smart key ECU (w/ smart entry & start system) and position control ECU. Gateway ECU has communication circuit to correspond with different types of communication data. Different types of communication data can be shared among communication parts after it goes through gateway ECU. Vehicle information is input to driver side J/B ECU at an assembling plant as a representative ECU which delivers the information to other ECUs through multiplex communication.

This system is working for the following systems:

- ABS
- Air Conditioner (Front)
- Air Conditioner (Rear)
- Audio System
- Automatic Light Control
- Back-Up Light
- Combination Meter
- Cruise Control
- Door Lock Control
- ECT and A/T Indicator
- Engine Control
- Engine Immobilizer System (w/ Smart Entry & Start System)
- Engine Immobilizer System (w/o Smart Entry & Start System)
- EPS
- Front Fog Light
- Front Wiper and Washer
- Headlight
- Headlight Beam Level Control
- Headlight Cleaner
- Horn
- Illumination
- Interior Light
- Key Reminder
- Light Auto Turn Off System
- Luggage Compartment Door Opener
- Mirror Heater
- Power Seat (Driver's Seat w/ Driving Position Memory)
- Power Tilt and Power Telescopic
- Power Window
- Push Button Start System
- Rear Fog Light
- Rear Sunshade
- Rear Window Defogger
- Remote Control Mirror
- Seat Belt Warning
- Sliding Roof
- SRS
- Starting
- Steering Lock (w/ Smart Entry & Start System)
- Stop Light
- Taillight
- Tire Pressure Warning System
- Theft Deterrent
- Turn Signal and Hazard Warning Light
- TRC
- VSC
- Wireless Door Lock Control (w/ Smart Entry & Start System)
- Wireless Door Lock Control (w/o Smart Entry & Start System)

Service Hints

G1 Gateway ECU

2–Ground : Approx. 12 volts with the ignition SW at ON or ACC position (Ignition SW type) or with the power SW at IG ON or ACC ON position (Power SW type)
1–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
10–Ground : Always approx. 12 volts
24–Ground : Always continuity

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A11	66	F17	71	P32	68
A18	66	G1	67	R11	72
A27	70	J8 A	68	R14	72
C15	66	J9 B	68	R26	75
C16	66	J24 A	71	S20	73
D2	67	J25 B	71	S36	73
D3 A	67	J27 A	74	T8	69
D5 C	67	J28 B	74	T14 A	69
D19	70	P10	72	T14 B	69
F14 C	67	P19	74		

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2F	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
4C	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4E		
4F		
4I		
4K		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5B		
5C		
5D		
5E		
5G		
5I		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
DJ	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
DL	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
LC	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		

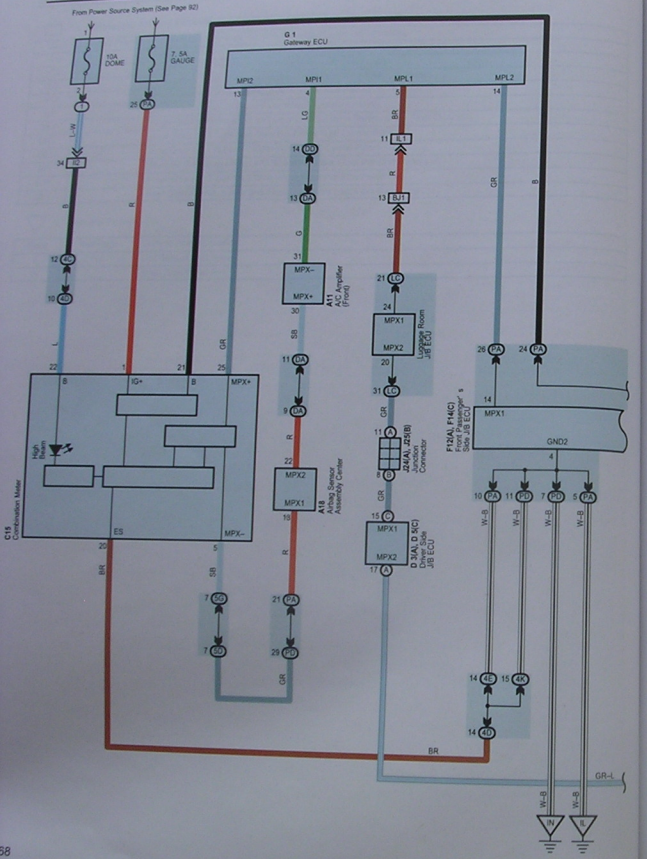
Connector Joining Wire Harness and Wire Harness

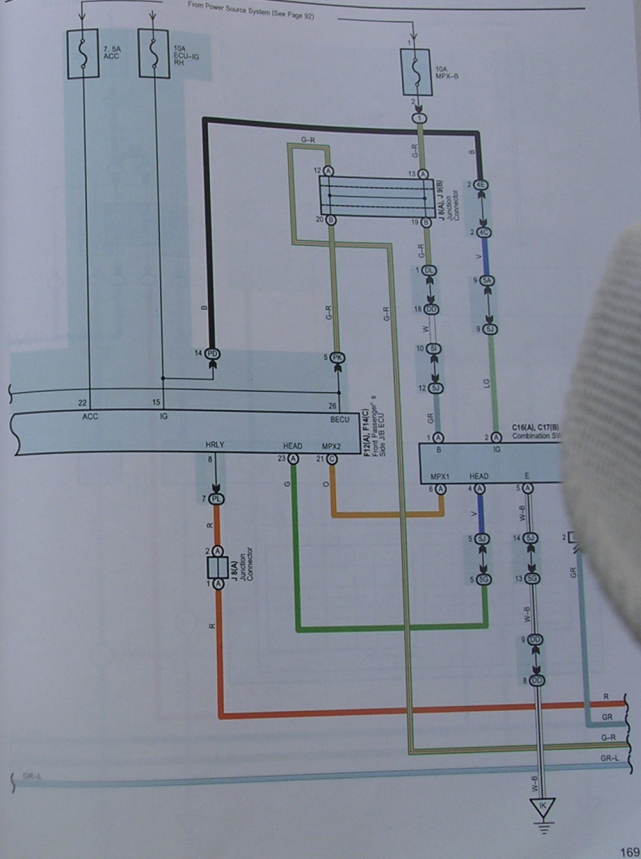
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	78	Instrument Panel Wire and Roof Wire (Left Side of the Instrument Panel)
IC2	78	Front Door LH Wire and Floor No.2 Wire (Left Kick Panel)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IH2	80	Front Door RH Wire and Floor Wire (Right Kick Panel)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BA1	82	Front Door LH Wire and Front Door LH No.2 Wire (Inside of the Front Door LH)
BD1	82	Rear Door No.2 Wire and Floor No.2 Wire (Left Center Pillar)
BE1	82	Rear Door No.1 Wire and Floor Wire (Right Center Pillar)
BI1	84	Floor No.2 Wire and Rear A/C Sub Wire (Rear Floor Partition Panel LH)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)
BK1	88	Rear Seat RH No.2 Wire and Floor No.2 Wire (Back the Rear Seat LH)

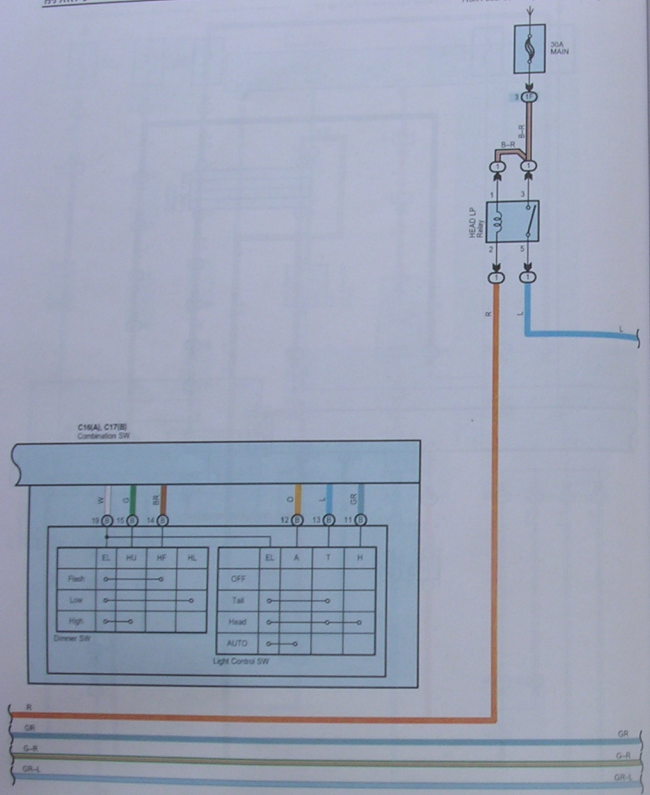
Ground Points

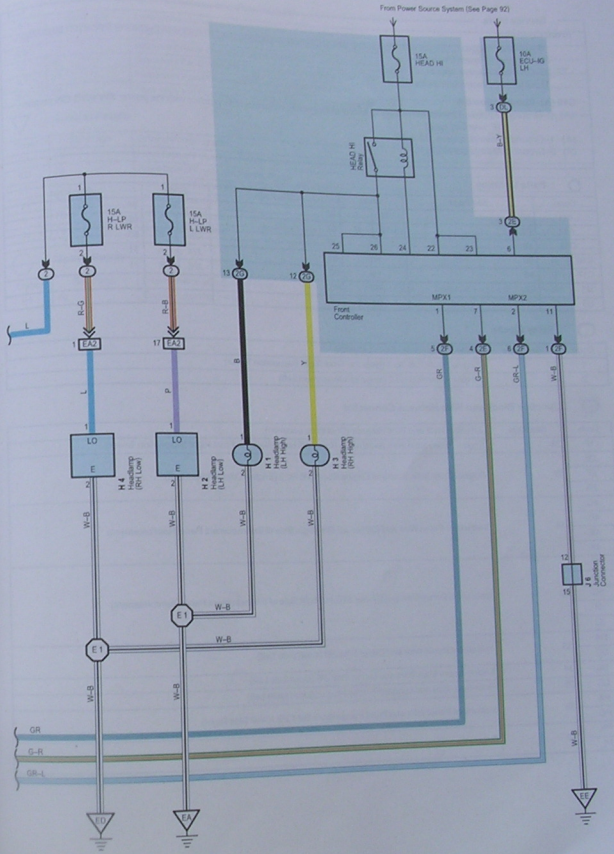
Code	See Page	Ground Points Location
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH

前照灯


From Power Source System (See Page 92)
10A DOME
7.5A GAUGE
G 1 Gateway ECU
MPX2
MPL1
MPL2
MPX–
MPX+
A11 AC Amplifier (w/ Navi)
Relay Room J/B (EFI)
MPX1
MPX2
J 6A(A), J 25(B) Junction Connector
D 13A(I), D 8A(I) Driver Side J/B ECU
F12A(I), F14A(I) Front Passenger Side J/B ECU
GND2
C15 Combination Meter
High Mount Stop Light
IG+
MPX–
ES
M8 Airbag Sensor Assembly Center
W–B
GR–L
BR
GR


From Power Source System (See Page 92)
7.5A ACC
10A ECU–IG RH
10A MPX–B
G–R
J 6A(A), J 9(B) Junction Connector
ACC
IG
BECU
HRLY
HEAD
MPX2
F12A(I), F14A(I) Front Passenger Side J/B ECU
C16(A), C17(B) Combination SW
MPX1
HEAD
E
IG
J 6A(A) Junction Connector
W–B
R
GR
G–R
GR–L


From Power Source System (See Page 92)
30A MAIN
HEAD LP Relay
C16(A), C17(B) Combination SW
Dimmer SW
Light Control SW
EL
HU
HF
HL
Flash
Low
High
A
T
H
OFF
Tail
Head
AUTO
R
GR
G-R
GR-L
L


From Power Source System (See Page 92)
15A HEAD HI
10A ECU-IG LH
HEAD HI Relay
15A H-LP R LWR
15A H-LP L LWR
MPX1
MPX2
Front Controller
LO
E
H4 Headlamp (RH Low)
H2 Headlamp (LH Low)
H1 Headlamp (LH High)
H3 Headlamp (RH High)
E1
E2
E3
E4
J1 Junction Connector
GR
G-R
GR-L
W-B
R-G
R-B
L
P
B
Y

Service Hints

Front Controller

6–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

22, 23–Ground : Always approx. 12 volts

11–Ground : Always continuity

C16 (A) Combination SW

(A) 2–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

(A) 1–Ground : Always approx. 12 volts

(A) 5–Ground : Always continuity

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A11		66	F12	A	67	J6		64
A18		66	F14	C	67	J8	A	68
C15		66	G1		67	J9	B	68
C16	A	66	H1		63	J24	A	71
C17	B	66	H2		63	J25	B	71
D3	A	67	H3		63			
D5	C	67	H4		63			

▭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)
2	26	Engine Room R/B No.2 (Engine Compartment Left)

▭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	23	Engine Room Main Wire and Engine Room J/B No.1 (Near the Front Right Suspention Tower)
2E	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
2F		
2G		
4C	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4D		
4E		
4K		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5D		
5G		
5I		
5J		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
DL	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
LC	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)
PL		

▭ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA2	76	Engine Room No.2 Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.2)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
II2	80	Instrument Panel Wire and Engine Room Main Wire (Right Kick Panel)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

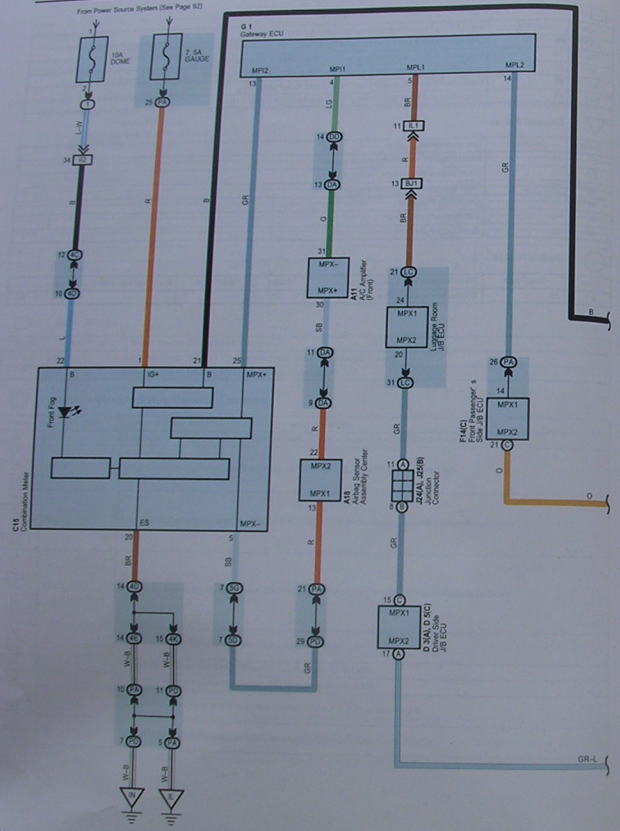
▽ : Ground Points

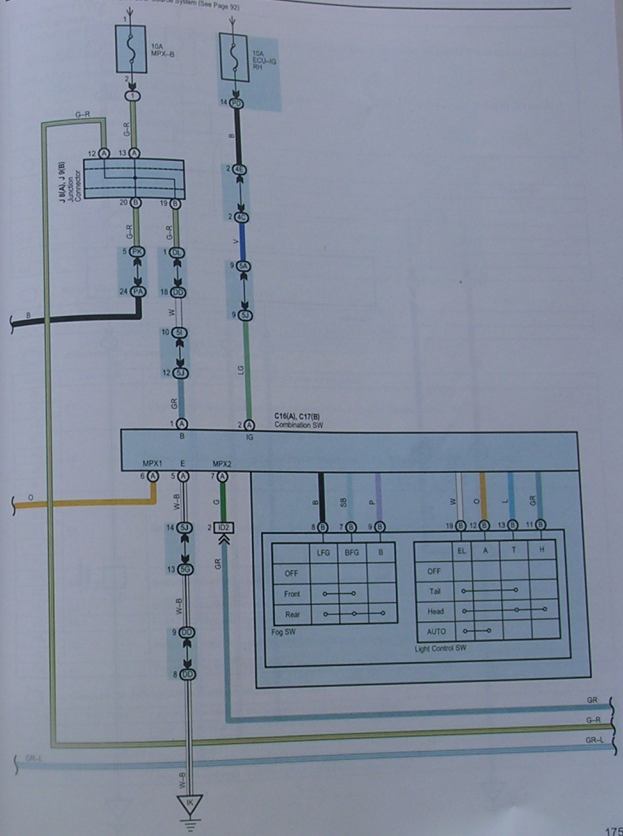
Code	See Page	Ground Points Location
EA	76	Front Side of Front Right Fender Apron
ED	76	Front Side of Front Light Fender Apron
EE	76	Rear Side of the Front Left Fender Apron
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH

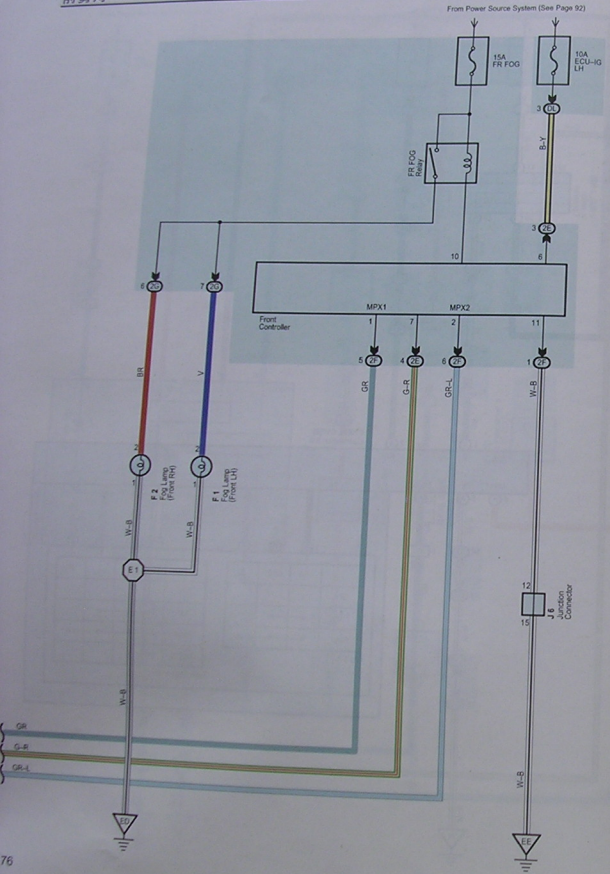
○ : Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E1	76	Engine Room No.2 Wire			

前雾灯


From Power Source System (See Page 92)
10A DOME
7.5A GAUGE
G 1 Gateway ECU
MPI2
MPI1
MPL1
MPL2
A11 Air Conditioning Amplifier Assembly (Front)
MPX-
MPX+
Luggage Room J/B (LJB)
A18 Airbag Sensor Assembly Center
MPX1
MPX2
F14(B) Front Passenger's Side J/B (FJB)
A14(A), 25(B) Driver's Side Junction Connector
D 3(A), 5(C) Driver's Side J/B (DJB)
C11 Combination Meter
Front Fog
IG+
ES
MPX-
GR-L


From Power Source System (See Page 92)
10A MPX-B
10A ECU-IG RH
J 8(A), J 9(B) Junction Connector
C16(A), C17(B) Combination SW
IG
MPX1
MPX2
Fog SW
LFG
BFG
OFF
Front
Rear
Light Control SW
EL
A
T
H
AUTO
Tail
Head
GR
G-R
GR-L



Service Hints

Front Controller

6–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

11–Ground : Always continuity

C16 (A) Combination SW

(A) 2–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

(A) 1–Ground : Always approx. 12 volts

(A) 5–Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A11	66	D5 C	67	J8 A	68
A18	66	F1	63	J9 B	68
C15	66	F2	63	J24 A	71
C16 A	66	F14 C	67	J25 B	71
C17 B	66	G1	67		
D3 A	67	J6	64		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2E	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
2F		
2G		
4C	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4D		
4E		
4K		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5D		
5G		
5I		
5J		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
DL	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
LC	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)

: Connector Joining Wire Harness and Wire Harness

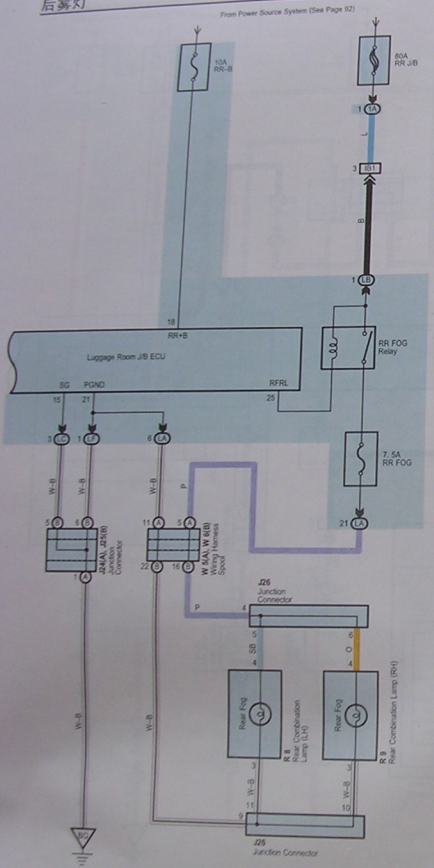
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
II2	80	Instrument Panel Wire and Engine Room Main Wire (Right Kick Panel)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

▽ : **Ground Points**

Code	See Page	Ground Points Location
ED	76	Front Side of Front Light Fender Apron
EE	76	Rear Side of the Front Left Fender Apron
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH

○ : **Splice Points**

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E1	76	Engine Room No.2 Wire			



Service Hints

Luggage Room J/B ECU

17, 18–Ground : Always approx. 12 volts
8–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
15, 21–Ground : Always continuity

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A11		66	D5	C	67	J25	B	71
A18		66	F14	C	67	J26		71
C15		66	G1		67	R8		72
C16	A	66	J8	A	68	R9		72
C17	B	66	J9	B	68	W5	A	73
D3	A	67	J24	A	71	W6	B	73

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

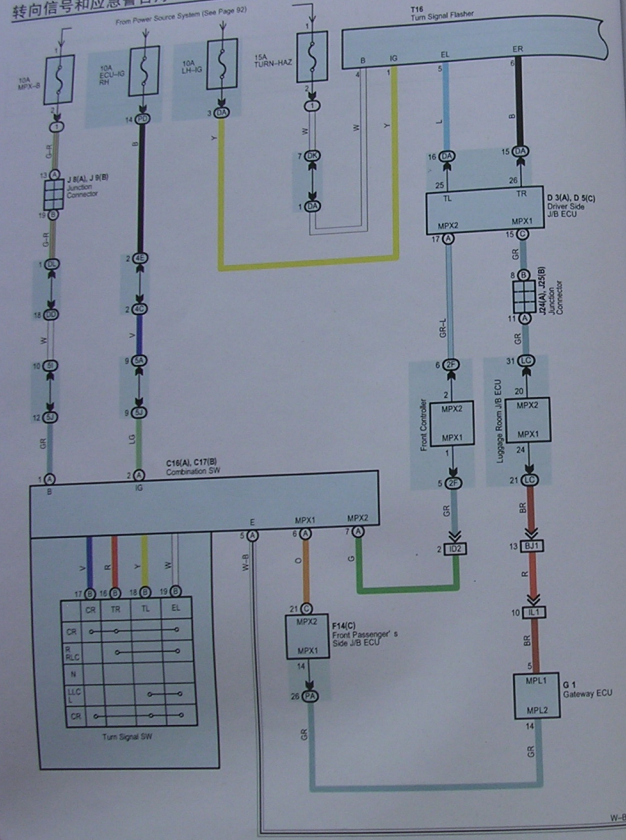
⬭ : Junction Block and Wire Harness Connector

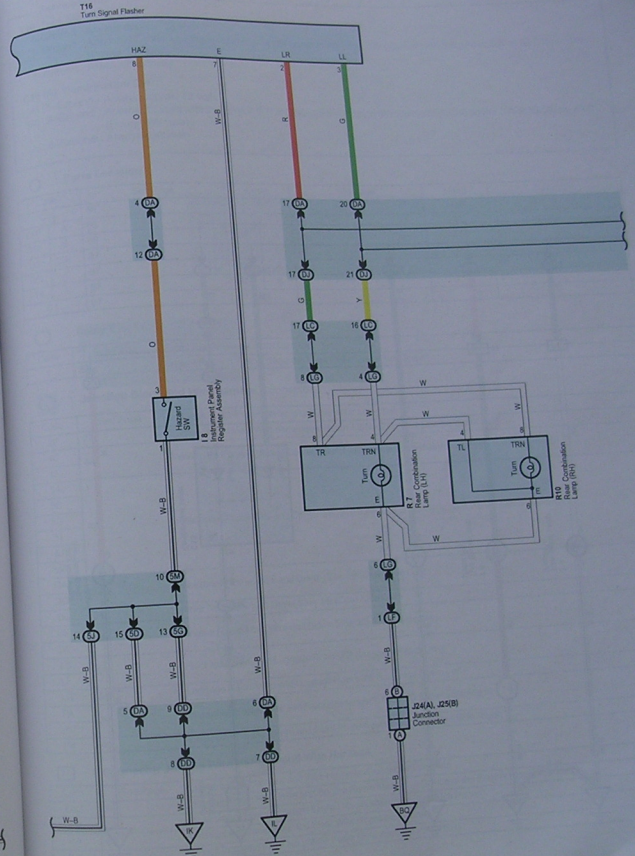
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	23	Engine Room Main Wire and Engine Room J/B No.1 (Near the Front Right Suspention Tower)
2F	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
4C	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4D		
4E		
4K		
5D	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5G		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
DJ	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
DL	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
LA	54	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
LB	55	
LC		
LF		
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)

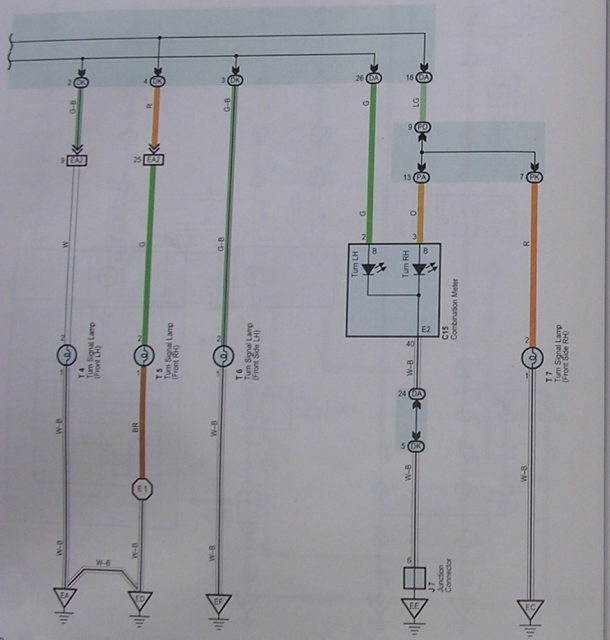
□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB1	78	Engine Room Main Wire and Floor No.2 Wire (Left Cowl Side Panel)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
II2	80	Instrument Panel Wire and Engine Room Main Wire (Right Kick Panel)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

转向信号和应急警告灯


From Power Source System (See Page 92)
10A MPX-B
10A ECU-IG RH
10A LH-IG
15A TURN-HAZ
T16
Turn Signal Flasher
B
IG
EL
ER
J1(A), J(B)
Junction Connector
D 3(A), D 5(C)
Driver Side J/B ECU
MPX2
MPX1
J4(A), J4(B)
Junction Connector
Front Controller
Luggage Room J/B ECU
C16(A), C17(B)
Combination SW
E
IG
F14(C)
Front Passenger's Side J/B ECU
G 1
Gateway ECU
MPL1
MPL2
CR
TR
TL
EL
R
RLC
N
LLC
L
CH
Turn Signal SW
W-B


T16
Turn Signal Flasher
HAZ
E
LR
LL
Hazard SW
I8
Instrument Panel Register Assembly
R7
Rear Combination Lamp (LH)
R10
Rear Combination Lamp (RH)
TR
TRN
TL
Turn
J24(A), J25(B)
Junction Connector
W-B



Service Hints

T16 Turn Signal Flasher

4–Ground : Always approx. 12 volts
1–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
7–Ground : Always continuity

C16 (A) Combination SW

(A) 1–Ground : Always approx. 12 volts
(A) 2–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
(A) 5–Ground : Always continuity

: Parts Location

Code		See Page	Code		See Page	Code	See Page
C15		66	I8		67	R10	72
C16	A	66	J7		64	T4	65
C17	B	66	J8	A	68	T5	65
D3	A	67	J9	B	68	T6	65
D5	C	67	J24	A	71	T7	65
F14	C	67	J25	B	71	T16	69
G1		67	R7		72		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2F	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
4C	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4E		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5D		
5G		
5I		
5J		
5M		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
DJ	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
DK	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
DL		
LC	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
LF		
LG	54	Luggage Room Wire and Luggage Room J/B (Luggage Room Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA2	76	Engine Room No.2 Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.2)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

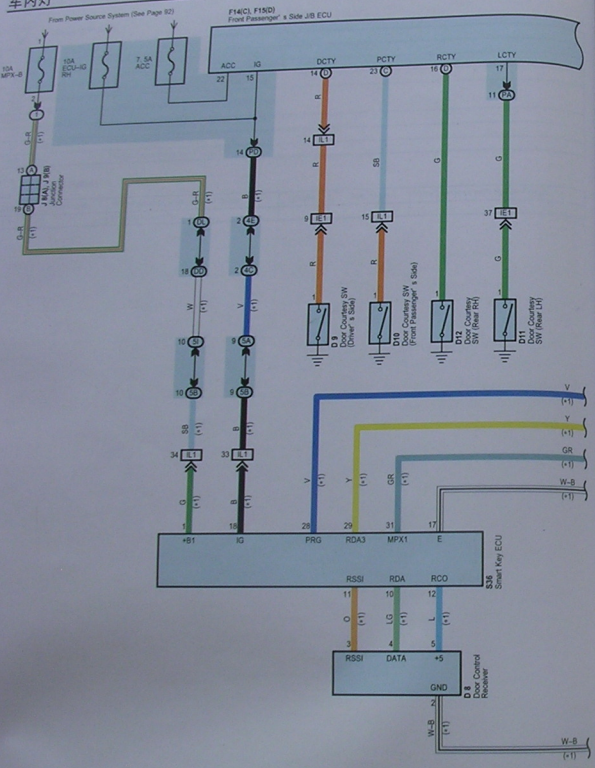
▽ : **Ground Points**

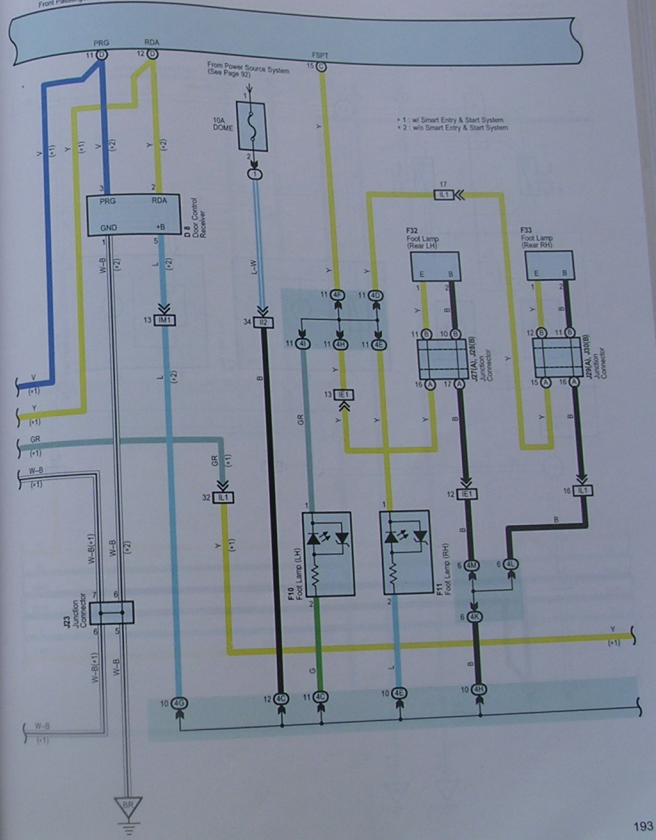
Code	See Page	Ground Points Location
EA	76	Front Side of Front Right Fender Apron
EC	76	Rear Side of the Front Right Fender Apron
ED	76	Front Side of Front Light Fender Apron
EE	76	Rear Side of the Front Left Fender Apron
EF		
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
SQ	82	Rear Floor Partition Panel LH

◯ : **Splice Points**

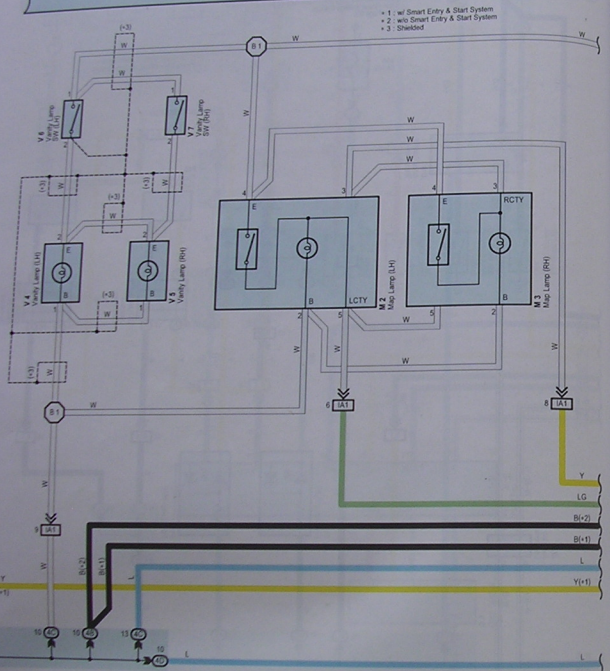
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E1	76	Engine Room No.2 Wire			

车内灯

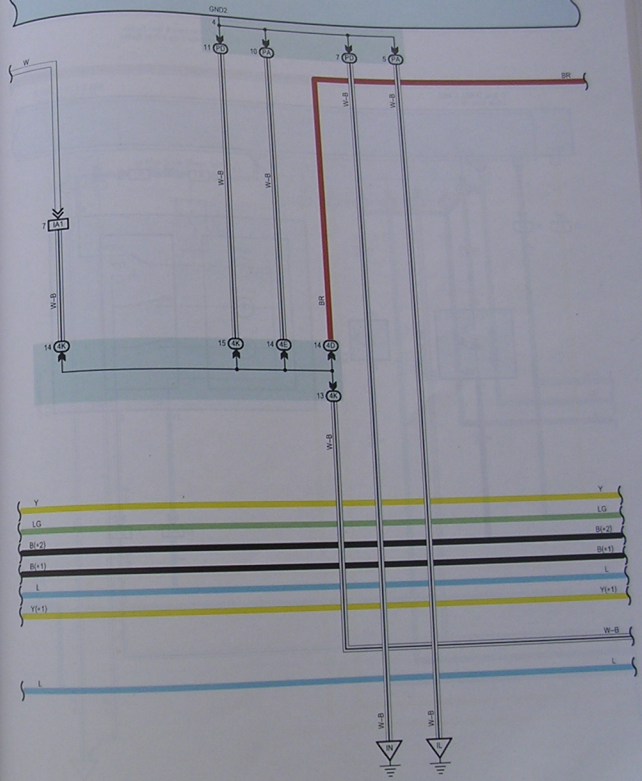

From Power Source System (See Page 92)
F14(C), F15(D)
Front Passenger's Side J/B ECU
10A MPX-IB
10A ECU-IG NO.1
7.5A ACC
ACC
IG
DCTY
PCTY
RCTY
LCTY
J/B
Junction Connector
D9 Door Courtesy SW (Driver's Side)
M10 Door Courtesy SW (Front Passenger's Side)
D12 Courtesy SW (Rear RH)
D11 Courtesy SW (Rear LH)
+B1
IG
PRG
RDA3
MPX1
E
S36 Smart Key ECU
RSSI
RDA
RCO
DATA
+5
GND
D8 Door Control Receiver


F14(C), F15(D)
Front Passenger's Side J/B ECU
PRG
RDA
FSPT
From Power Source System (See Page 92)
10A DOME
* 1 : w/ Smart Entry & Start System
* 2 : w/o Smart Entry & Start System
D8 Door Control Receiver
F32 Foot Lamp (Rear LH)
F33 Foot Lamp (Rear RH)
J/B(AL J/B#1) Junction Connector
F10 Foot Lamp (LH)
F11 Foot Lamp (RH)
J23 Junction Connector
GND

F14(C), F15(D)
Front Passenger' s Side J/B ECU



F14(C), F15(D)
Front Passenger' s Side J/B ECU



车内灯

F14(C), F15(D)
Front Passenger' s Side J/B ECU

* 1 : w/ Smart Entry & Start System
* 2 : w/o Smart Entry & Start System

D 3(A), D 5(C), D 6(D)
Driver Side J/B ECU

RCTY LCTY ILE ILE

GR 31 IE1 GR 15 IA1 GR

CTY

DOME
MAP RH
MAP LH
DOOR
D
OFF
ON
MR
ML

+B1 GND3

D13
Overhead J/B

T13
Transponder Key Amplifier
Ignition Key
ILL-
ILL+

K5
Key Slot

LG (+2) LG (+1)

B (+2) B (+1)

Y LG B(+2) B(+1) L Y(+1) W-B L

15 IA2 17 IA1

L W-B Y (+1) L W-B

F14(C), F15(D)
Front Passenger' s Side J/B ECU

D 3(A), D 5(C), D 6(D)
Driver Side J/B ECU

GND SGND IG MPXB MPX1 MPX2

From Power Source System
(See Page 52)

10A
LH-IG

W-B W-B

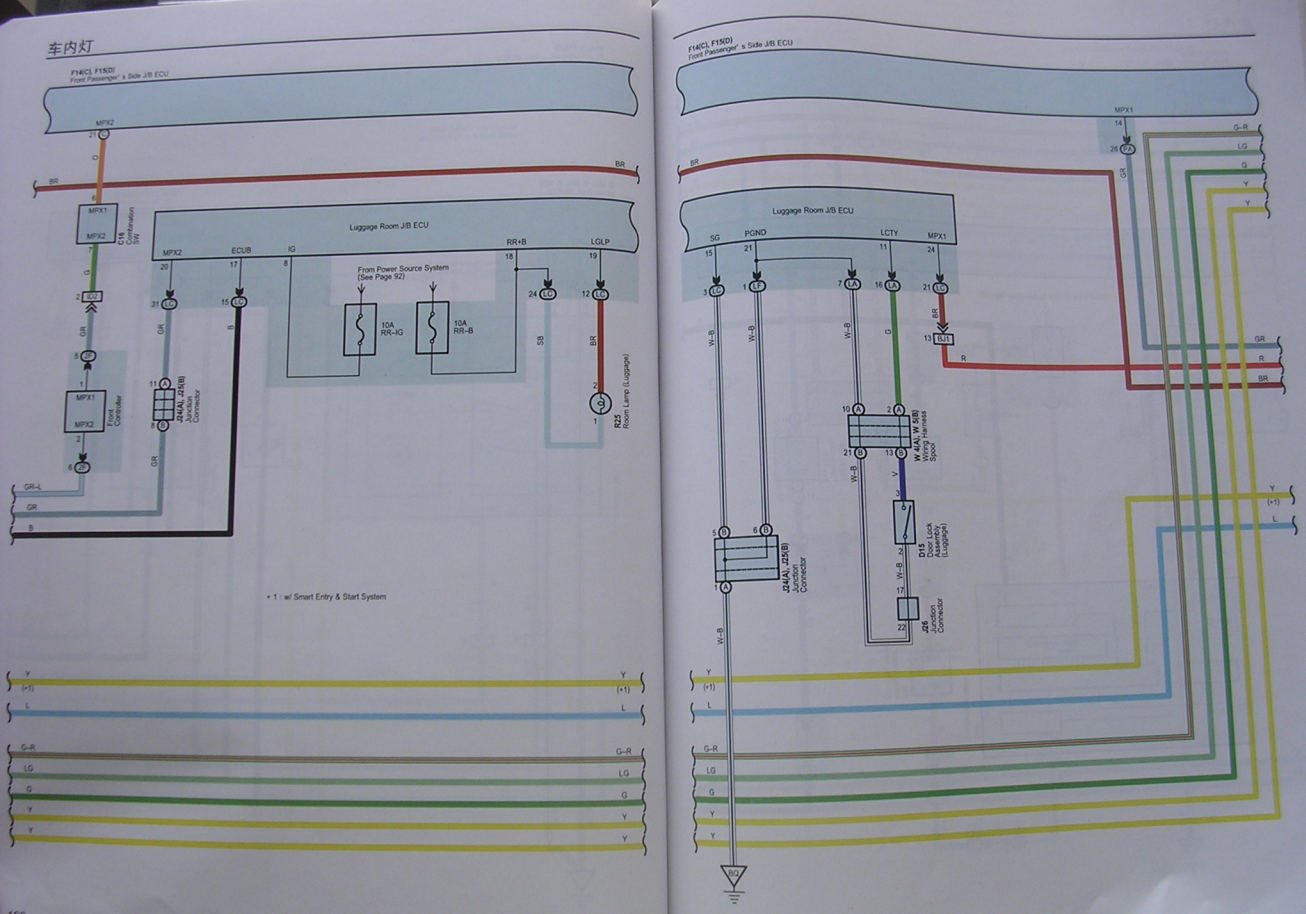
Y Y G LG G-R B GR GR-L

GR-L GR B

Y (+1) L G-R LG G Y Y

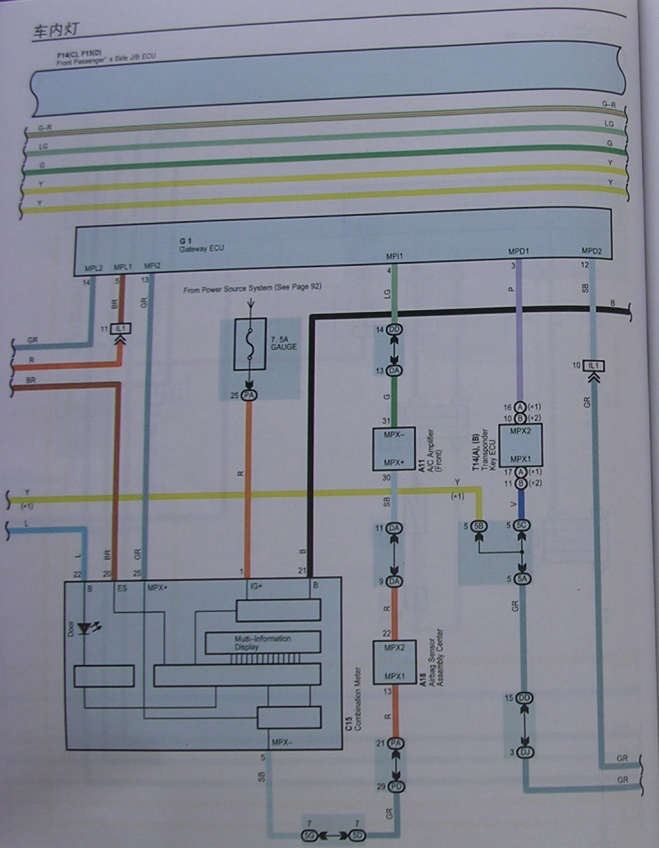
W-B W-B

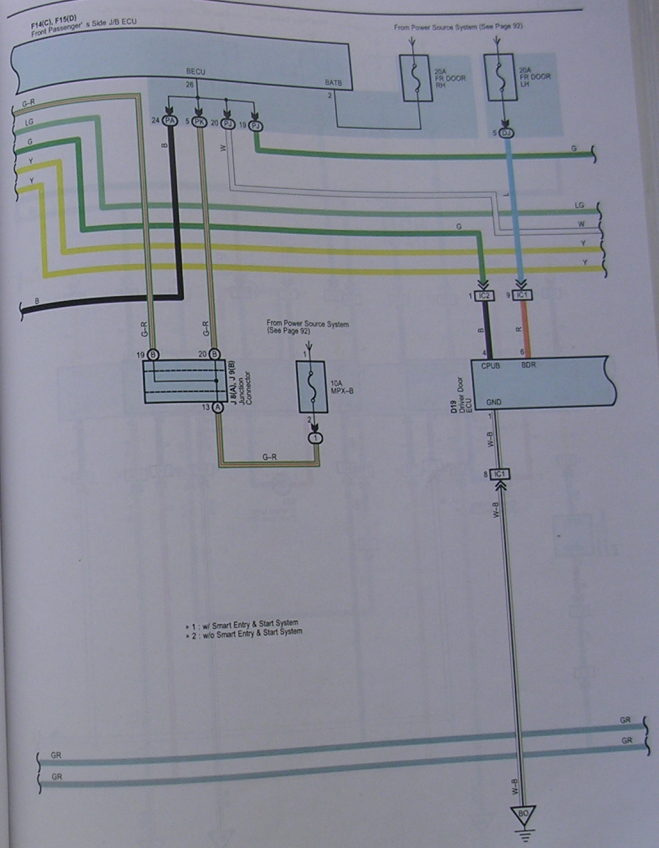
车内灯


F14(CL F15(D)
Front Passenger's & Side J/B ECU
MPX2
21
C
BR
6
MPX1
MPX2
C16 Combination Switch
7
GR
2
ECU
5
1
MPX1
MPX2
Front Controller
2
6
GR-L
GR
B
Luggage Room J/B ECU
MPX2
ECUB
IG
RR+B
LGLP
20
17
8
18
19
31
15
From Power Source System (See Page 92)
10A RR-IG
10A RR-B
24
12
SB
BR
2
1
R23 Room Lamp (Luggage)
11
24(AL),25(B) Junction Connector
GR
B
• 1 : w/ Smart Entry & Start System
Y
(+1)
L
G-R
LG
G
Y
Y

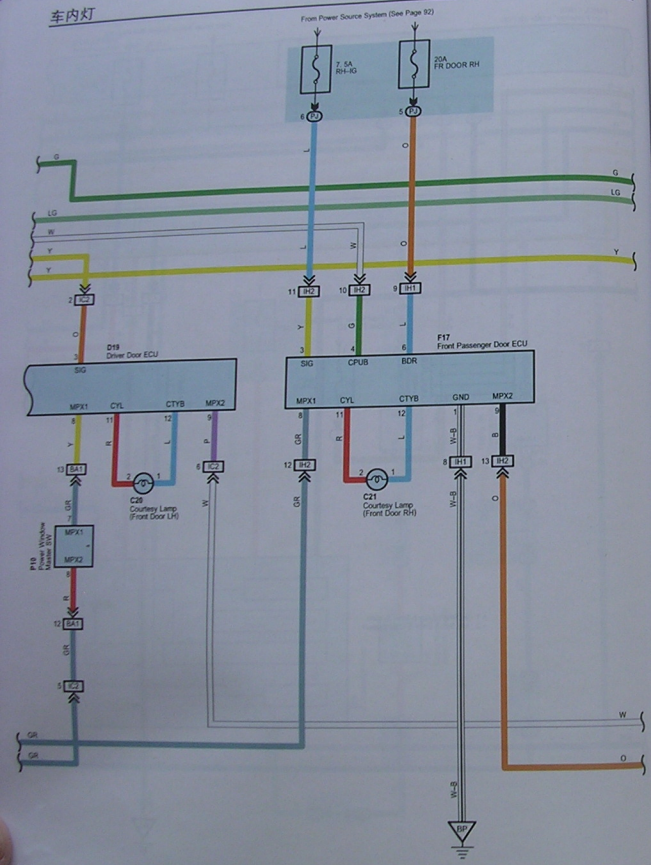
F14(CL F15(D)
Front Passenger's & Side J/B ECU
MPX1
14
26
G-R
LG
G
Y
Y
BR
G
Luggage Room J/B ECU
SG
PGND
LCTY
MPX1
15
21
11
24
3
1
7
16
21
13
W-B
W-B
W-B
G
BR
R
GR
R
BR
10
2
21
13
W-B
W-B
V
W-4(A),W-5(B) Warning Switch Harness
D15 Door Lock Actuator (Luggage)
5
6
17
22
24(AL),25(B) Junction Connector
J26 Junction Connector
W-B
Y
(+1)
L
G-R
LG
G
Y
Y
Y
(+1)
L
G-R
LG
G
Y
Y
BR2

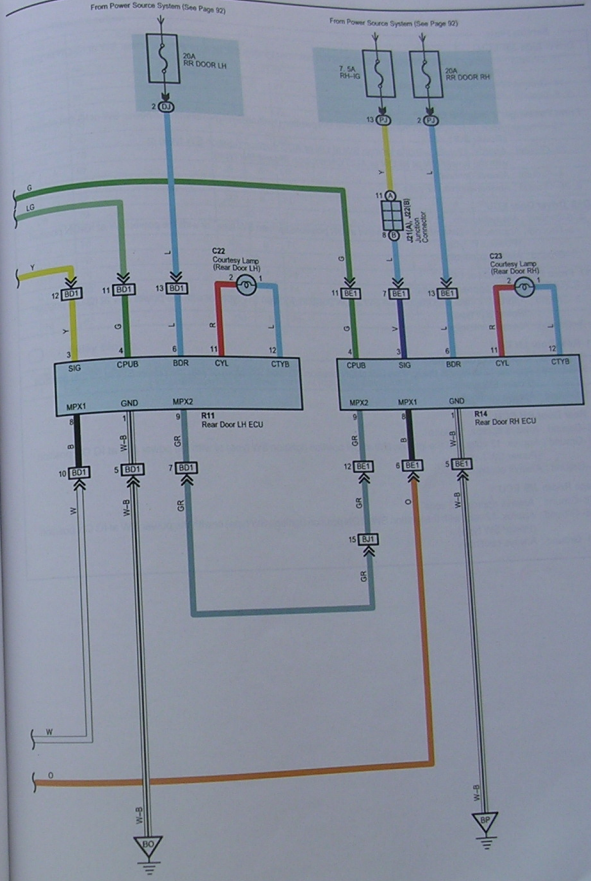
车内灯


F14(C), F15(D)
Front Passenger' s Side J/B ECU
G 1
Gateway ECU
From Power Source System (See Page 92)
7. 5A
GAUGE
Multi-Information
Display
C15
Combination Meter
A18
Antenna Sensor
Assembly Center
T14(A), (B)
Transponder
Key ECU
A1
AC Amplifier
(Front)
MPX–
MPX+
MPX1
MPX2
IG+
ES
Dual
MPI1
MPI2
MPD1
MPD2
MPL1
MPL2


F14(C), F15(D)
Front Passenger' s Side J/B ECU
From Power Source System (See Page 92)
BECU
BATB
20A
FR DOOR
RH
20A
FR DOOR
LH
From Power Source System
(See Page 92)
J/B(A), J/B(B)
Connector
10A
MPX–B
D19
Driver Door
ECU
CPUB
BDR
GND
* 1 : w/ Smart Entry & Start System
* 2 : w/o Smart Entry & Start System

车内灯


From Power Source System (See Page 92)
7.5A RH-IG
20A FR DOOR RH
D19 Driver Door ECU
F17 Front Passenger Door ECU
C20 Courtesy Lamp (Front Door LH)
C21 Courtesy Lamp (Front Door RH)
P10 Power Window Master SW
SIG
MPX1
CYL
CTYB
MPX2
CPUB
BDR
GND


From Power Source System (See Page 92)
20A RR DOOR LH
7.5A RH-IG
20A RR DOOR RH
C22 Courtesy Lamp (Rear Door LH)
C23 Courtesy Lamp (Rear Door RH)
21(A), 22(B) Junction Connector
R11 Rear Door LH ECU
R14 Rear Door RH ECU
SIG
CPUB
BDR
CYL
CTYB
MPX1
MPX2
GND

Service Hints

Driver Side J/B ECU

15–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
14–Ground : Always approx. 12 volts
1, 8–Ground : Always continuity

Front Passenger's Side J/B ECU

15–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
22–Ground : Approx. 12 volts with the ignition SW at ON or ACC position (Ignition SW type) or with the power SW at IG ON or ACC ON position (Power SW type)
4–Ground : Always continuity
2, 26–Ground : Always approx. 12 volts

D19 Driver Door ECU

4, 6–Ground : Always approx. 12 volts
3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
1–Ground : Always continuity

F17 Front Passenger Door ECU

4, 6–Ground : Always approx. 12 volts
3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
1–Ground : Always continuity

R11 Rear Door LH ECU

4, 6–Ground : Always approx. 12 volts
3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
1–Ground : Always continuity

R14 Rear Door RH ECU

4, 6–Ground : Always approx. 12 volts
3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
1–Ground : Always continuity

Luggage Room J/B ECU

17, 18–Ground : Always approx. 12 volts
8–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
15, 21–Ground : Always continuity

: Parts Location

Code	See Page
A11	66
A18	66
C15	66
C16	66
C20	70
C21	70
C22	70
C23	70
D3 A	67
D5 C	67
D6 D	67
D8	70
D9	70
D10	70
D11	70
D12	70
D15	70
D19	70
F10	67
F11	67
F14 C	67
F15 D	67
F17	71
F32	74
F33	74
G1	67
J8 A	68
J9 B	68
J21 A	71
J22 B	71
J23	71
J24 A	71
J25 B	71
J26	71
J27 A	74
J28 B	74
J29 A	74
J30 B	74
K5	68
M2	71
M3	71
O3	71
P10	72
R11	72
R14	72
R25	72
S36	73
T13	69
T14 A	69
T14 B	69
V4	73
V5	73
V6	73
V7	73
W4 A	65
W5 B	73

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2F	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
4B	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4C		
4D		
4E		
4F		
4G		
4H		
4I		
4K		
4L		
4M		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5B		
5C		
5D		
5G		
5I		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
DJ	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
DL	54	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
LA	55	
LC		
LF		
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD	40	Floor Wire and Front Passenger's Side J/B (Cowl Side Right)
PJ	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)
PK		

: Connector Joining Wire Harness and Wire Harness

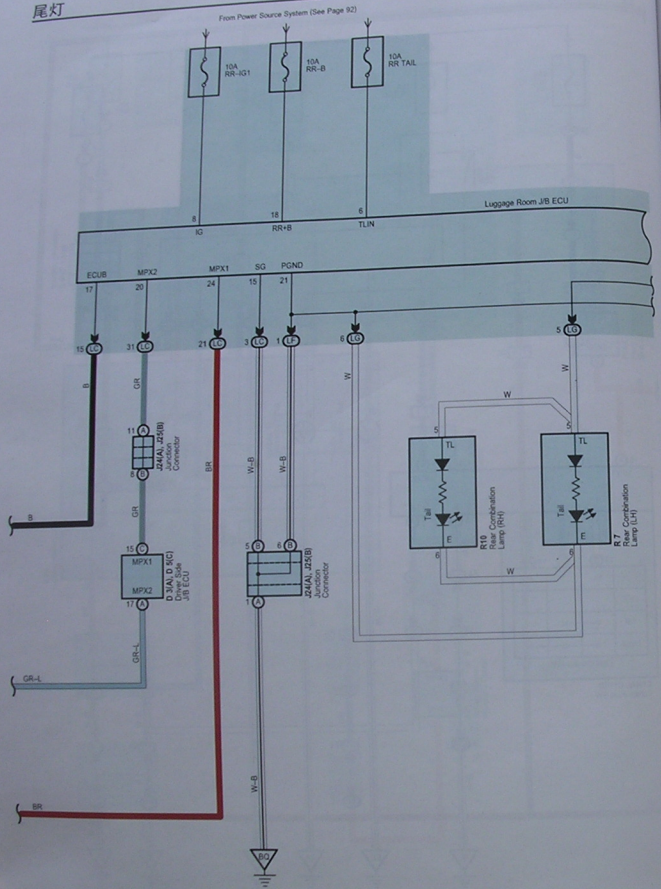
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	78	Instrument Panel Wire and Roof Wire (Left Side of the Instrument Panel)
IA2		
IC1	78	Front Door LH Wire and Floor No.2 Wire (Left Kick Panel)
IC2		
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IE1	78	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
IH1	80	Front Door RH Wire and Floor Wire (Right Kick Panel)
IH2		
II2	80	Instrument Panel Wire and Engine Room Main Wire (Right Kick Panel)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
IM1	80	Instrument Panel Wire and Floor No.2 Wire (Under the Rear Console)
BA1	82	Front Door LH Wire and Front Door LH No.2 Wire (Inside of the Front Door LH)
BD1	82	Rear Door No.2 Wire and Floor No.2 Wire (Left Center Pillar)
BE1	82	Rear Door No.1 Wire and Floor Wire (Right Center Pillar)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

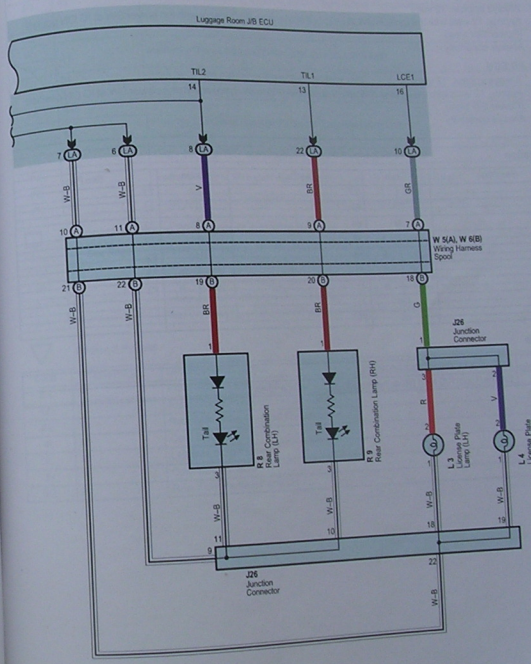
: Ground Points

Code	See Page	Ground Points Location
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH
BO	82	Under the Driver's Seat
BP	82	Under the Front Passenger's Seat
BQ	82	Rear Floor Partition Panel LH
BR	82	Rear Floor Partition Panel RH

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B1	84	Roof Wire			


From Power Source System (See Page 92)
10A RR-IG1
15A RR-B
10A RR TAIL
Luggage Room J/B ECU
IG
RR+B
TLIN
ECUB
MPX2
MPX1
SG
PGND
D 3(A), D 9(G) Driver Side J/B ECU
J14(A), J5(B) Junction Connector
J24(A), J2(B) Junction Connector
R19 Rear Combination Lamp (RH)
R7 Rear Combination Lamp (LH)
TL
Tail
E
W
B
GR
BR
GR-L
W-B


Luggage Room J/B ECU
TIL2
TIL1
LCE1
W 5(A), W 6(B) Wiring Harness Spool
J26 Junction Connector
R8 Rear Combination Lamp (LH)
R9 Rear Combination Lamp (RH)
L3 License Plate Lamp (LH)
L4 License Plate Lamp (RH)
Tail
W-B
V
BR
GR
R

尾灯

System Outline

When the light control SW is turned to the TAIL or HEAD, the signal from the combination SW is sent to the front controller and luggage room J/B ECU by the multiplex communication, and the clearance lamp, taillamp and license plate lamp come on.

Service Hints

Front Controller

7, 15, 16–Ground : Always approx. 12 volts
6–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
11–Ground : Always continuity

C16 (A) Combination SW

(A) 1–Ground : Always approx. 12 volts
(A) 2–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
(A) 5–Ground : Always continuity

Luggage Room J/B ECU

6, 18–Ground : Always approx. 12 volts
8–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
15, 21–Ground : Always continuity

○ : Parts Location

Code		See Page
A11		66
A18		66
C5		62
C6		62
C15		66
C16	A	66
C17	B	66
D3	A	67
D5	C	67

Code		See Page
F14	C	67
G1		67
J6		64
J8	A	68
J9	B	68
J24	A	71
J25	B	71
J26		71
L3		71

Code		See Page
L4		71
R7		72
R8		72
R9		72
R10		72
W5	A	73
W6	B	73	

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2E	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
2F		
2G		
4C	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4D		
4E		
4K		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5D		
5G		
5I		
5J		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
DJ	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
DL	54	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
LA	55	
LC		
LF		
LG	54	Luggage Room Wire and Luggage Room J/B (Luggage Room Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)

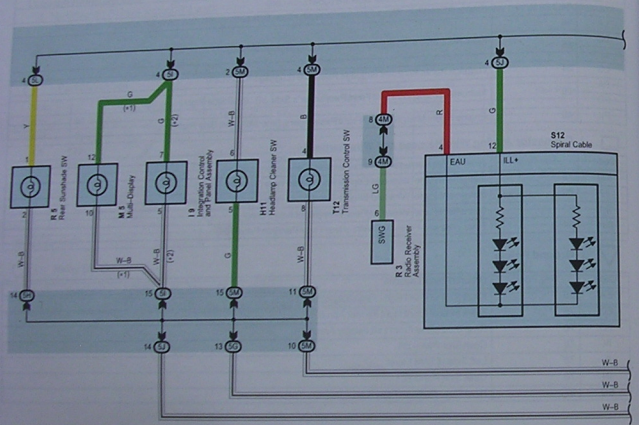
□ : Connector Joining Wire Harness and Wire Harness

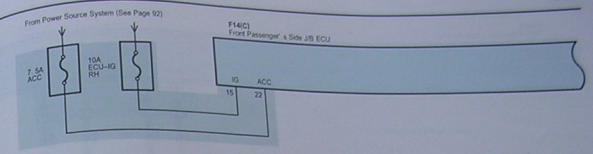
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
II2	80	Instrument Panel Wire and Engine Room Main Wire (Right Kick Panel)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

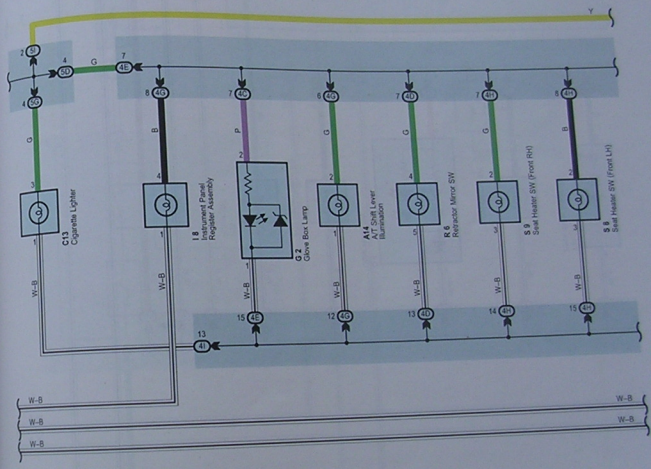
▽ : Ground Points

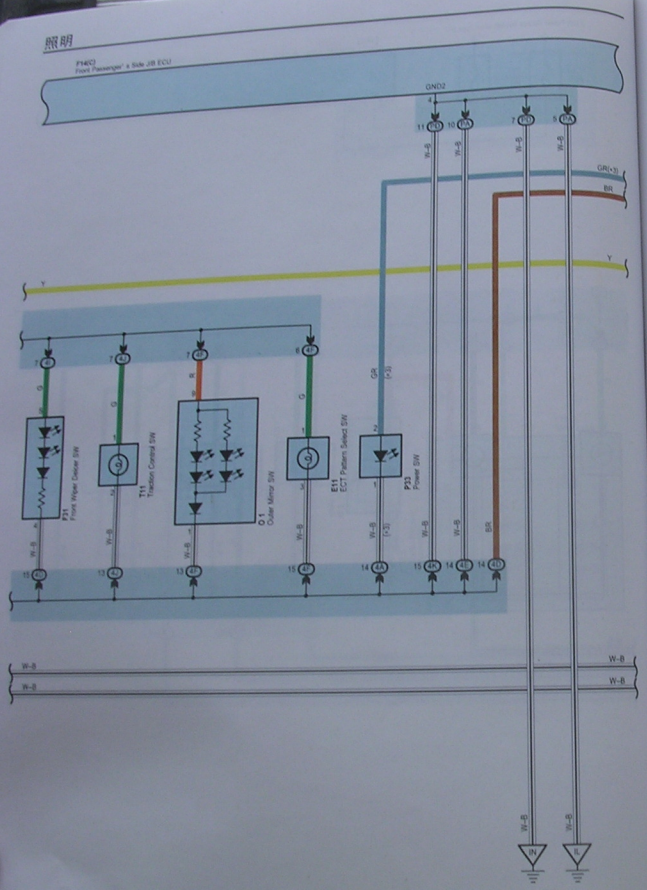
Code	See Page	Ground Points Location
EA	76	Front Side of Front Right Fender Apron
ED	76	Front Side of Front Light Fender Apron
EE	76	Rear Side of the Front Left Fender Apron
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH
BQ	82	Rear Floor Partition Panel LH

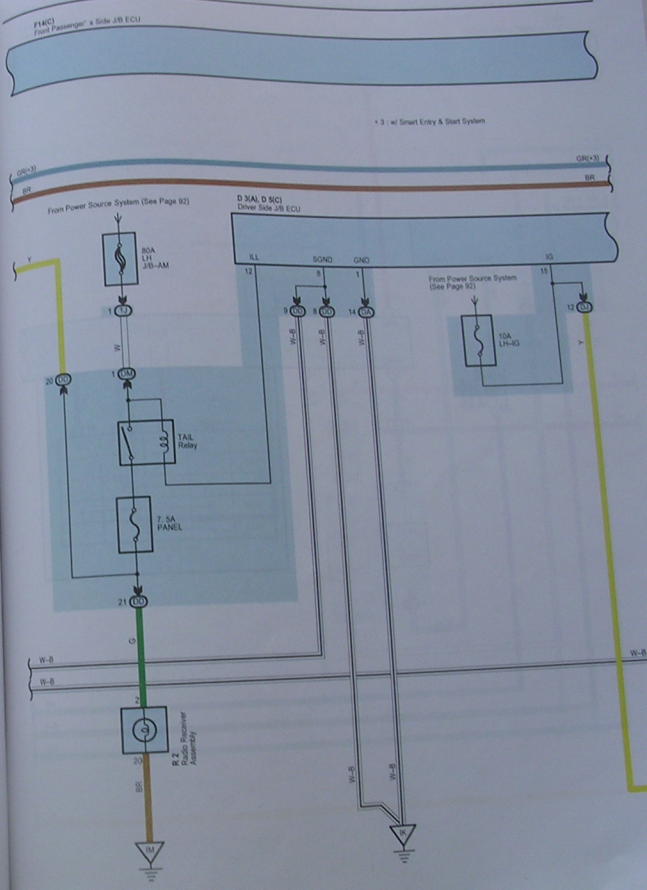
*1 : w/ Navigation System
*2 : w/o Navigation System

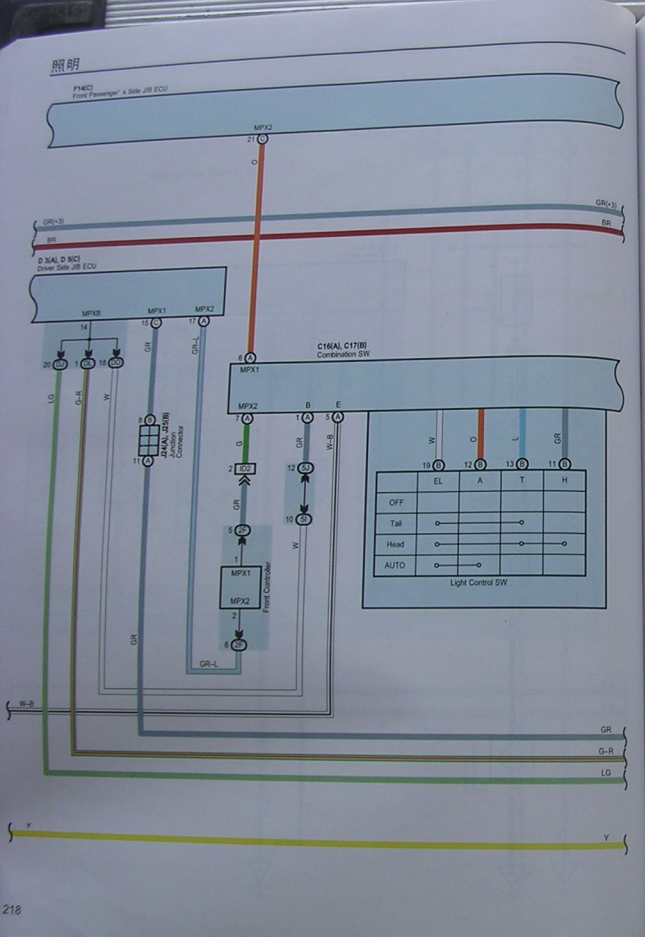


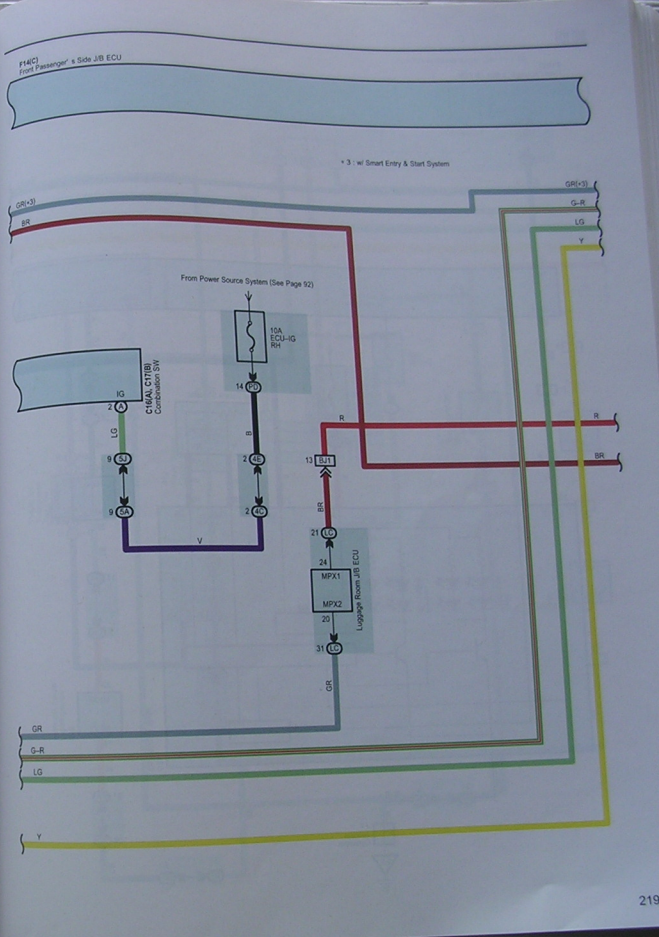


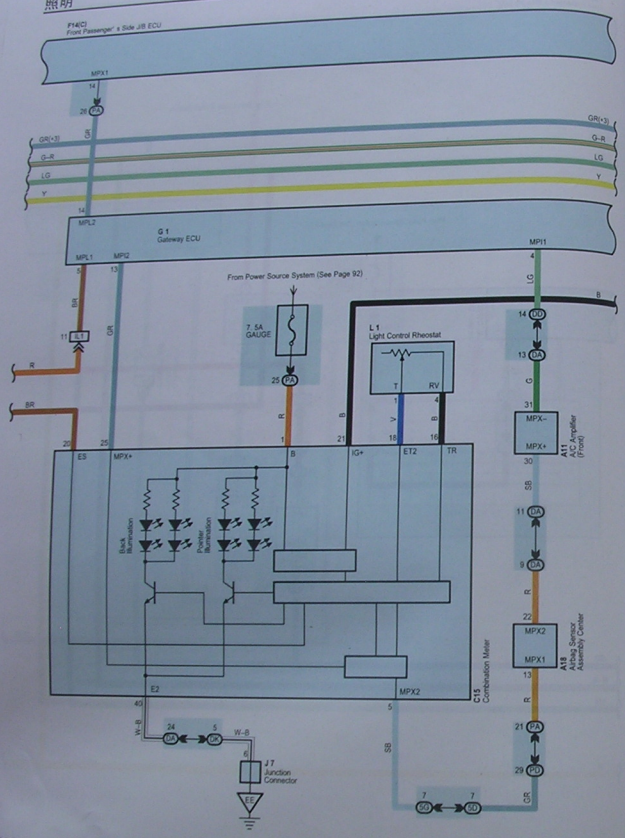


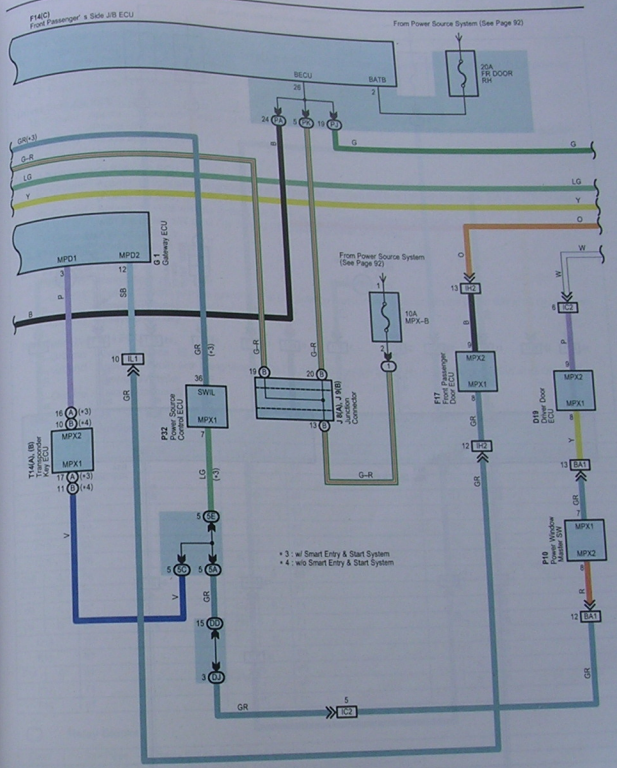

F14(C)
Front Passenger' s Side J/B ECU
GND2
GR(+3)
BR
Y
W-B
F21
Front Wiper Deicer SW
T11
Traction Control SW
O1
Outer Mirror SW
E11
ECT Pattern Select SW
P23
Power SW

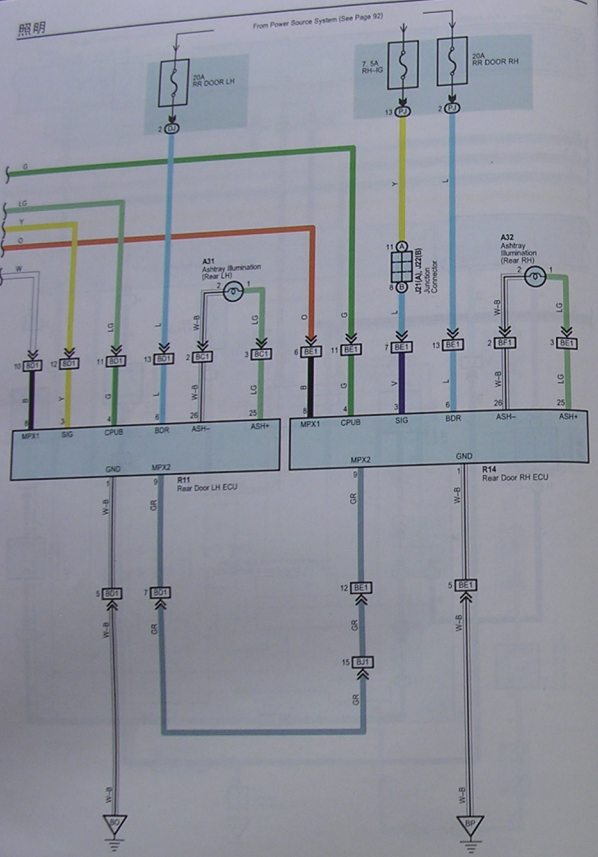

F14(C)
Front Passenger' s Side J/B ECU
* 3 : w/ Smart Entry & Start System
GR(+3)
BR
From Power Source System (See Page 92)
D 3(A), D 5(C)
Driver Side J/B ECU
80A
LH
J/B–AM
ILL
SGND
GND
IG
From Power Source System
(See Page 92)
10A
LH–IG
TAIL
Relay
7.5A
PANEL
W-B
R 2
Radio Receiver
Assembly


F14(C)
Front Passenger' s Side J/B ECU
MPX2
21 C
O
GR(×3)
BR
D 3(A), D 5(C)
Driver Side J/B ECU
MPX3
MPX1
MPX2
14
13 C
17 A
20 GR
1 GR
18 GR
GR
GR-L
LG
G-R
W
W-B
5 C
11 A
2(A), 2(B)
Junction
Connector
C16(A), C17(B)
Combination SW
MPX1
MPX2
7 A
B
1 A
E
5 A
G
GR
W-B
2 ID2
12 5A
10 6A
5 2F
1
MPX1
MPX2
2
8 2F
Front Controller
19 B
12 B
13 B
11 B
W
O
L
GR
EL
A
T
H
OFF
Tail
Head
AUTO
Light Control SW
GR
G-R
LG
Y


F14(C)
Front Passenger' s Side J/B ECU
* 3 : w/ Smart Entry & Start System
GR(×3)
BR
GR(×3)
G-R
LG
Y
From Power Source System (See Page 92)
10A
ECU-IG
RH
14 P3
C16(A), C17(B)
Combination SW
IG
2 A
LG
9 5J
9 5A
V
B
2 A6
2 A6
R
R
BR
13 BJ1
BR
21 L6
24
MPX1
MPX2
20
31 L5
Luggage Room J/B ECU
GR
GR
G-R
LG
Y


F14(C)
Front Passenger's Side J/B ECU
MPX1
14
26 PA
GR
GR(*3)
G-R
LG
Y
MPL2
G 1
Gateway ECU
MPL1
MPI2
MPI1
From Power Source System (See Page 92)
7.5A
GAUGE
L 1
Light Control Rheostat
T
RV
L1
BR
R
25 PA
ES
MPX+
IG+
ET2
TR
MPX-
A11
A/C Amplifier
(Front)
LG
B
LG
GR
SB
V
Back
Illumination
Panel
Illumination
E2
MPX2
C15
Combination Meter
A18
Airbag Sensor
Assembly Center
W-B
24 OA
2 OX
J7
Junction
Connector
E2
7 SD
SB
GR


F14(C)
Front Passenger's Side J/B ECU
From Power Source System (See Page 92)
20A
FR DOOR
RH
BECU
BATB
28
2
24 PA
5 PA
19 PA
GR(*3)
G-R
LG
Y
G
O
G 1
Gateway ECU
MPD1
MPD2
3
12
B
SB
From Power Source System
(See Page 92)
10A
MPX-B
L1
GR
T14(A) (B)
Transponder
Key ECU
MPX2
MPX1
P12
Power Source
Control ECU
SWIL
MPX1
(*3)
(*4)
LG
V
G-R
R/B#1 J/B
Junction
Connector
F17
Front Passenger
Door ECU
IH2
P19
Driver Door
ECU
IC2
BA1
P18
Power Window
Main Switch
5 SA
15 CD
3 DA
IC2
GR
* 3 : w/ Smart Entry & Start System
* 4 : w/o Smart Entry & Start System



Service Hints

C16 (A) Combination SW

(A) 2–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
(A) 1–Ground : Always approx. 12 volts
(A) 5–Ground : Always continuity

Driver Side J/B ECU

15–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
14–Ground : Always approx. 12 volts
1, 8–Ground : Always continuity

Front Passenger's Side J/B ECU

15–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
22–Ground : Approx. 12 volts with the ignition SW at ON or ACC position (Ignition SW type) or with the power SW at IG ON or ACC ON position (Power SW type)
4–Ground : Always continuity
2, 26–Ground : Always approx. 12 volts

R11 Rear Door LH ECU

4, 6–Ground : Always approx. 12 volts
3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
1–Ground : Always continuity

R14 Rear Door RH ECU

4, 6–Ground : Always approx. 12 volts
3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
1–Ground : Always continuity

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A11	66	G1	67	P32	68
A14	66	G2	67	P33	68
A18	66	H11	67	R2	68
A31	70	I8	67	R3	68
A32	70	I9	67	R5	68
C13	66	J7	64	R6	68
C15	66	J8 A	68	R11	72
C16 A	66	J9 B	68	R14	72
C17 B	66	J21 A	71	S8	69
D3 A	67	J22 B	71	S9	69
D5 D	67	J24 A	71	S12	69
D19	70	J25 B	71	T11	69
E11	67	L1	68	T12	69
F14 C	67	M5	68	T14 A	69
F17	71	O1	68	T14 B	69
F31	67	P10	72		

▢ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1J	23	Engine Room Main Wire and Engine Room J/B No.1 (Near the Front Right Suspention Tower)
2F	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
4A	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4C		
4D		
4E		
4F		
4G		
4H		
4I		
4J		
4K		
4M		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5C		
5D		
5E		
5G		
5H		
5I		
5J		
5L		
5M		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
DJ	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
DK	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
DL		
DM		
LC	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PJ	40	Floor Wire and Front Passenger's Side J/B (Cowl Side Right)
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)

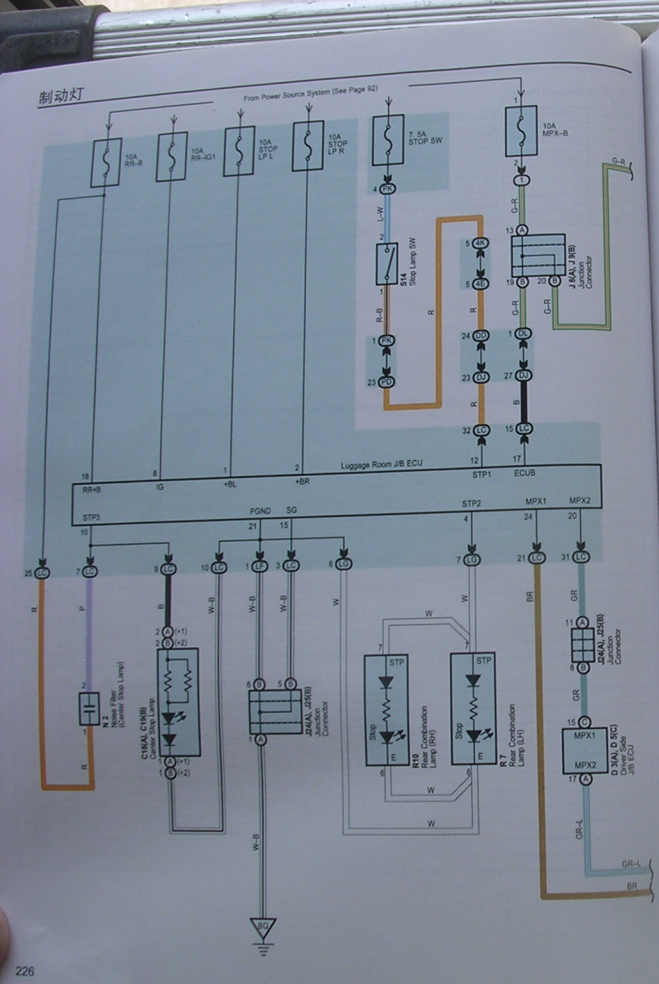
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	78	Front Door LH Wire and Floor No.2 Wire (Left Kick Panel)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IH2	80	Front Door RH Wire and Floor Wire (Right Kick Panel)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BA1	82	Front Door LH Wire and Front Door LH No.2 Wire (Inside of the Front Door LH)
BC1	82	Rear Door No.2 Wire and Rear Door LH Wire (Inside of the Rear Door LH)
BD1	82	Rear Door No.2 Wire and Floor No.2 Wire (Left Center Pillar)
BE1	82	Rear Door No.1 Wire and Floor Wire (Right Center Pillar)
BF1	82	Rear Door No.1 Wire and Rear Door RH Wire (Inside of the Rear Door RH)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

: Ground Points

Code	See Page	Ground Points Location
EE	76	Rear Side of the Front Left Fender Apron
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IM	78	Right Side of Shift Lever
IN	78	Cowl Side Panel RH
BO	82	Under the Driver's Seat
BP	82	Under the Front Passenger's Seat

制动灯


From Power Source System (See Page 92)
10A RR-B
10A RR-IG1
10A STOP LP L
10A STOP LP R
7.5A STOP SW
10A MPX-B
ST4 Stop Lamp SW
J/A(L) J/B(R) Junction Connector
Luggage Room J/B ECU
STP1
ECUB
STP2
MPX1
MPX2
STP3
PGND
SG
RR+B
IG
+BL
+BR
N 2 Fuse (Power Stop Lamp)
C19(A), C19(B) Combination Lamp
J/A(L) J/B(R) Junction Connector
RT6 Rear Combination Lamp (RH)
RT7 Rear Combination Lamp (LH)
D/A(L) J/B(R) Junction Connector
D/A(L) D/C Driver Side J/B ECU

* 1 : w/ Rear Sunshade
* 2 : w/o Rear Sunshade
From Power Source System (See Page 92)
7.5A GAUGE
G 1 Gateway ECU
MPL2
MPL1
MPI1
MPI2
F14(C) Front Passenger's Side J/B ECU
C16 Combination SW
Front Controller
A11 Air Conditioner (Front)
A18 Adhesion Sensor Assembly Center
C15 Combination Meter
MPX+
MPX-
IG+
ES
Rear Lights

Service Hints

S14 Stop Lamp SW

2–1 : Closed with the brake pedal depressed

Luggage Room J/B ECU

1, 2, 17, 18–Ground : Always approx. 12 volts

8–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

15, 21–Ground : Always continuity

○ : Parts Location

Code		See Page
A11		66
A18		66
C15		66
C16		66
C18	A	70
C19	B	70
D3	A	67
D5	C	67
F14	C	67
G1		67
J8	A	68
J9	B	68
J24	A	71
J25	B	71
N2		71
R7		72
R10		72
S14		69

▭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

▭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2F	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
4D	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4E		
4K		
5D	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5G		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
DJ	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
DL	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
LC	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
LF		
LG	54	Luggage Room Wire and Luggage Room J/B (Luggage Room Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)

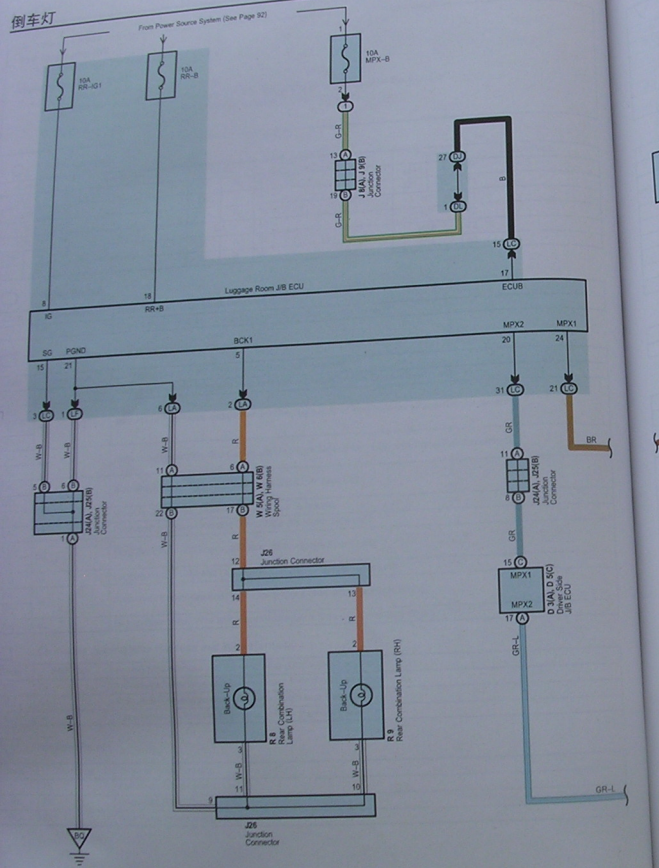
□ : Connector Joining Wire Harness and Wire Harness

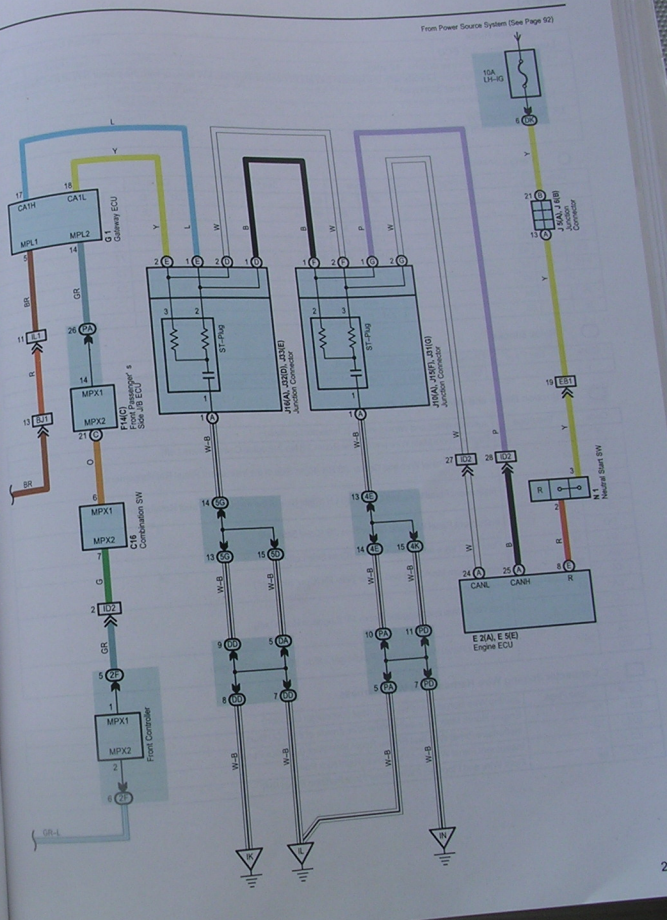
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

▽ : Ground Points

Code	See Page	Ground Points Location
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH
BQ	82	Rear Floor Partition Panel LH

倒车灯


From Power Source System (See Page 92)
10A RR-IG1
10A RR-B
10A MPX-B
J (A), J (B) Junction Connector
Luggage Room J/B ECU
ECUB
IG
RR+B
SG
PGND
BCK1
MPX2
MPX1
J24(A), J25(B) Junction Connector
W, 5(A), W, 6(B) Wiring Harness Splice
J26 Junction Connector
R 8 Combination Lamp (Rear Lamp, LH)
R 9 Rear Combination Lamp (RH)
Back-Up
D 3(A), D 5(C) Junction Block
J/B ECU
GR-L
BR
W-B
R
GR


From Power Source System (See Page 92)
10A LH-IG
J (A), J (B) Junction Connector
CA1H
CA1L
MPL1
MPL2
G 1 Gateway ECU
F14(C) Front Passenger's Side J/B ECU
J16(A), J32(D), J33(E) Junction Connector
J16(A), J16(F), J31(G) Junction Connector
ST-Plug
C16 Combination SW
Front Controller
CANL
CANH
E 2(A), E 5(E) Engine ECU
N 1 Neutral Start SW
L
Y
W
B
P
R
GR
BR
W-B
GR-L

倒车灯

Service Hints

Luggage Room J/B ECU
17, 18–Ground : Always approx. 12 volts
8–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
15, 21–Ground : Always continuity

N1 Neutral Start SW
3–2 : Closed with the shift lever in R position

: Parts Location

Code		See Page
C16		66
D3	A	67
D5	C	67
E2	A	63
E5	E	63
F14	C	67
G1		67
J5	A	64
J6	B	64
J8	A	68
J9	B	68
J10	A	58, 68
J15	F	58, 68
J16	A	60, 68
J24	A	71
J25	B	71
J26		71
J31	G	58, 68
J32	D	60, 68
J33	E	60, 68
N1		64
R8		72
R9		72
W5	A	73
W6	B	73

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2F	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
4E	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4K		
5D	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5G		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
DJ	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
DK	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
DL		
LA	54	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
LC	55	
LF		
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		

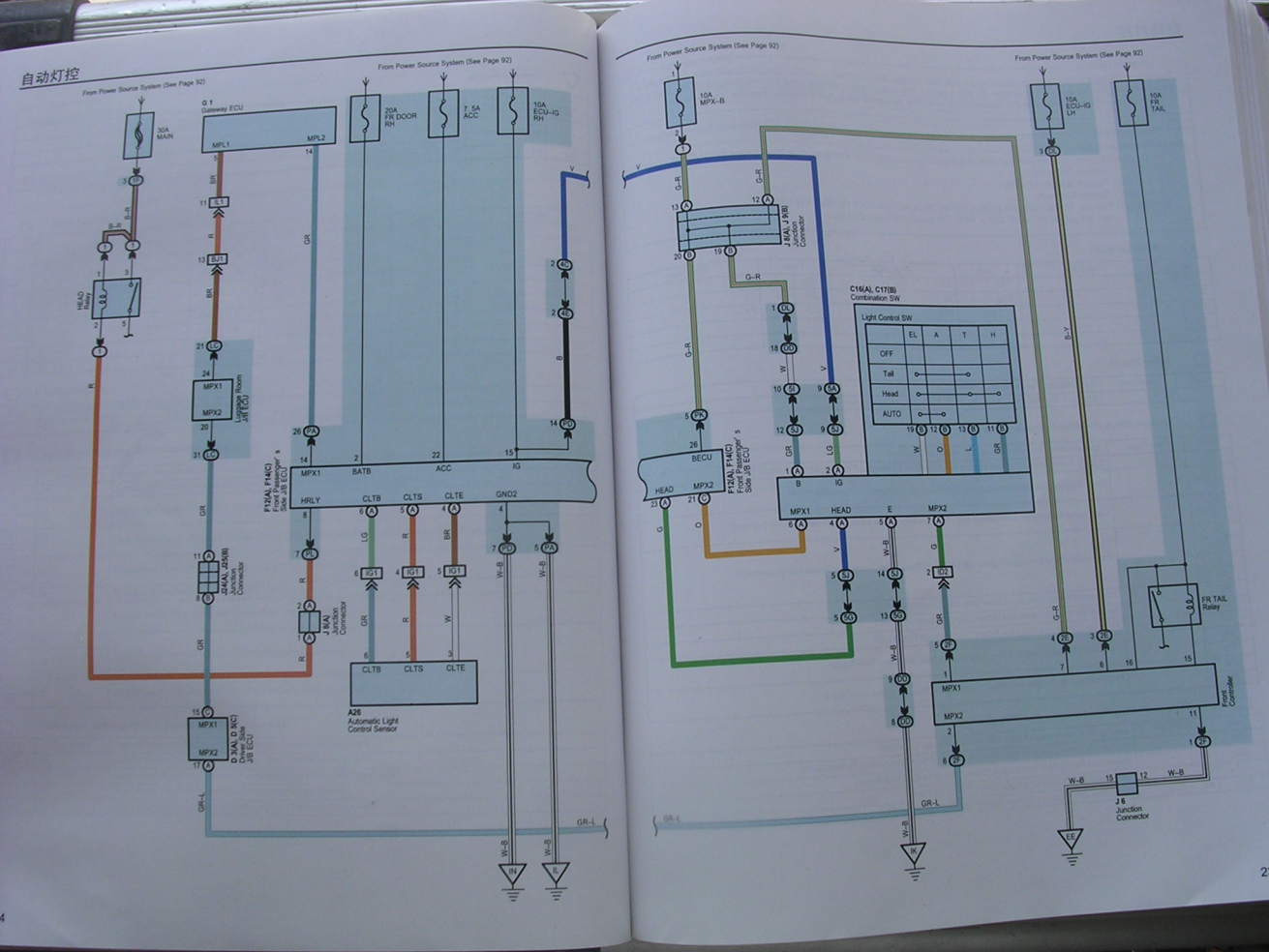
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	76	Engine Room Main Wire and Engine Wire (Inside of the ECU Box)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

: Ground Points

Code	See Page	Ground Points Location
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH
BQ	82	Rear Floor Partition Panel LH

自动灯控


From Power Source System (See Page 92)
G 1
Gateway ECU
MPL1
MPL2
30A
MAIN
20A
FR DOOR
RH
7.5A
ACC
10A
ECU-IG
RH
HEAD
Relay
Luggage Room
J/B (ECU)
MPX1
MPX2
F12(A), F14(C)
Front Passenger's Side J/B ECU
BATB
ACC
IG
HRLY
CLTB
CLTS
CLTE
GND2
J/C
Junction Connector
A26
Automatic Light Control Sensor
D, J(A), D, S(C)
Driver Side J/B ECU
GR-L
W-B
From Power Source System (See Page 92)
10A
MPX-B
J/B(A), J/B(B)
Radio Connector
C16(A), C17(B)
Combination S/W
Light Control SW
EL
A
T
H
OFF
Tail
Head
AUTO
BECU
HEAD
E
IG
From Power Source System (See Page 92)
10A
ECU-IG
LH
10A
FR
TAIL
FR TAIL
Relay
Front
Controller
J 6
Junction
Connector

自动灯控

System Outline

The automatic light control system works when the light control SW is turned to AUTO. The automatic light control sensor detects the brightness around the vehicle. By this function, the system automatically turns the headlamp on if the brightness is below the regular level and turns the headlamp off when the surroundings become brighter than the regular level.

Service Hints

Front Passenger's Side J/B ECU

15–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

2, 26–Ground : Always approx. 12 volts

4–Ground : Always continuity

22–Ground : Approx. 12 volts with the ignition SW at ON or ACC position (Ignition SW type) or with the power SW at IG ON or ACC ON position (Power SW type)

○ : Parts Location

Code		See Page
A26		66
C16	A	66
C17	B	66
D3	A	67
D5	C	67
F12	A	67
F14	C	67
G1		67
J6		64
J8	A	68
J9	B	68
J24	A	71
J25	B	71

▢ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

▢ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	23	Engine Room Main Wire and Engine Room J/B No.1 (Near the Front Right Suspention Tower)
2E	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
2F		
4C	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4E		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5G		
5I		
5J		
DD	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DL	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
LC	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)
PL		

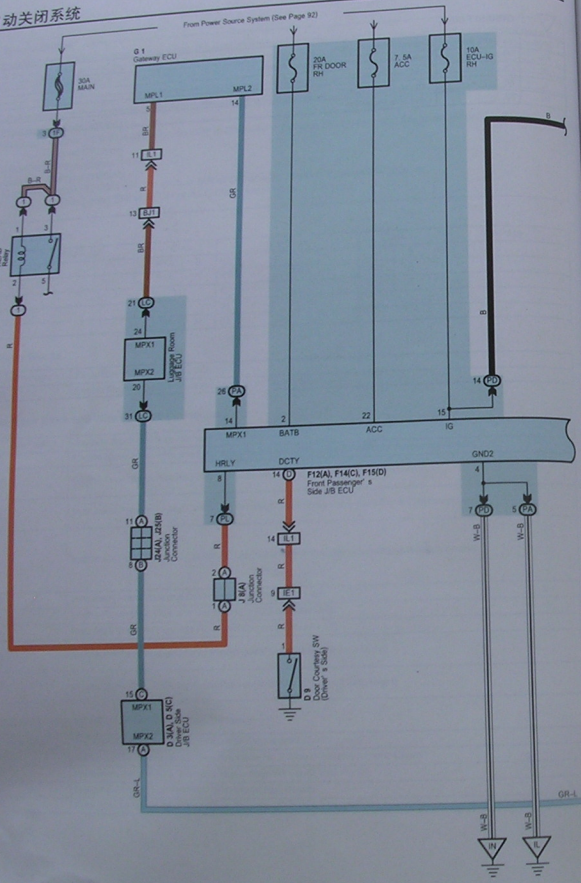
▢ : Connector Joining Wire Harness and Wire Harness

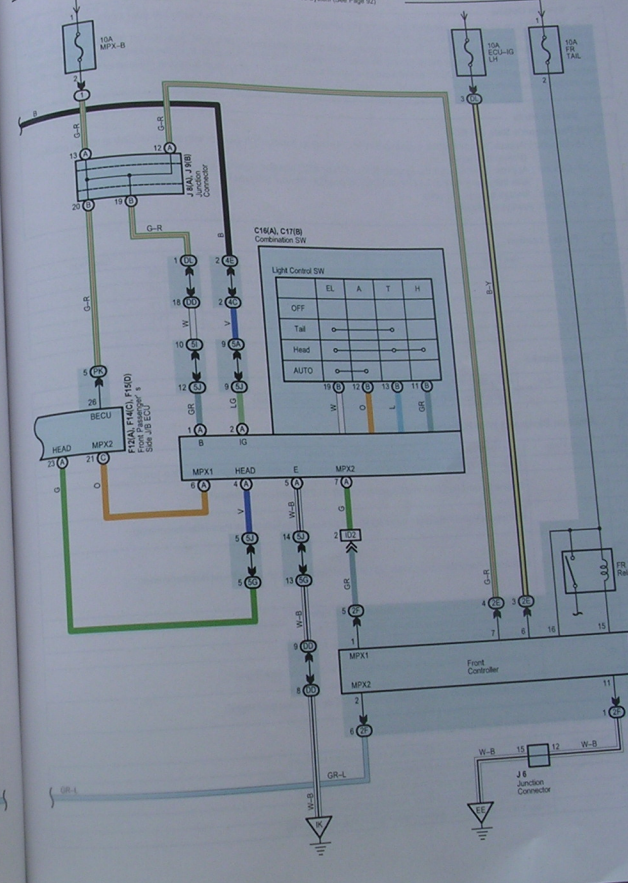
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IG1	80	Instrument Panel Wire and Instrument Panel No.2 Wire (Instrument Panel Center)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

▽ : Ground Points

Code	See Page	Ground Points Location
EE	76	Rear Side of the Front Left Fender Apron
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH

灯自动关闭系统


From Power Source System (See Page 92)
30A MAIN
G 1 Gateway ECU
MPL1
MPL2
20A FR DOOR RH
7.5A ACC
10A ECU-IG RH
HEAD Relay
Luggage Room J/B ECU
MPX1
MPX2
BATB
ACC
IG
HRLY
DCTY
GND2
F12(A), F14(C), F15(D) Front Passenger's Side J/B ECU
J 8(A), J 9(B) Junction Connector
J 8(A) Junction Connector
D 9 Door Courtesy SW (Driver's Side)
D 3(A), D 5(C) Driver Side J/B ECU
W-B
GR-L
GR
R
B-R
BR
B


From Power Source System (See Page 92)
10A MPX-B
10A ECU-IG LH
10A FR TAIL
J 8(A), J 9(B) Junction Connector
C16(A), C17(B) Combination SW
Light Control SW
EL
A
T
H
OFF
Tail
Head
AUTO
BECU
F12(A), F14(C), F15(D) Front Passenger's Side J/B ECU
HEAD
MPX1
MPX2
IG
E
FR TAIL Relay
Front Controller
J 6 Junction Connector
W-B
GR-L
G-R
G-R
B
O
V
W
GR
LG
L
R

System Outline

The light auto turn off system automatically turns the taillamp or headlamp off according to the door open or close on the driver's side, and prevent failing to turn off the lights.
If the ignition switch is turned to OFF from ON (Ignition SW type) or the power SW at OFF from IG ON (Power SW type) with the taillamp or headlamp is on. If the driver's side door is opened at that time, the signal from the door courtesy SW (Driver's side) is sent to the TERMINAL DCTY of the front passenger's side J/B ECU. The signal turns the taillamp or headlamp off by the multiplex communication.

Service Hints

Front Passenger's Side J/B ECU

15–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
22–Ground : Approx. 12 volts with the ignition SW at ON or ACC position (Ignition SW type) or with the power SW at IG ON or ACC ON position (Power SW type)
2, 26–Ground : Always approx. 12 volts
4–Ground : Always continuity

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
C16	A	66	F12	A	67	J8	A	68
C17	B	66	F14	C	67	J9	B	68
D3	A	67	F15	D	67	J24	A	71
D5	C	67	G1		67	J25	B	71
D9		70	J6		64			

▢ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

▢ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	23	Engine Room Main Wire and Engine Room J/B No.1 (Near the Front Right Suspention Tower)
2E	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
2F		
4C	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4E		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5G		
5I		
5J		
DD	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DL	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
LC	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)
PL		

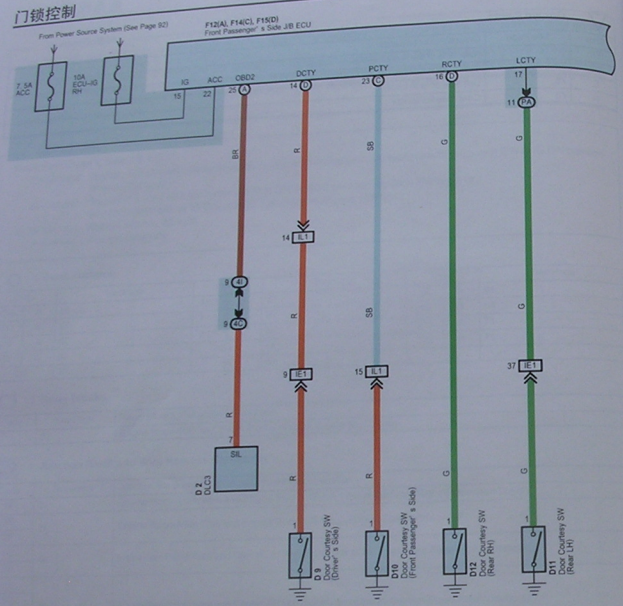
▢ : Connector Joining Wire Harness and Wire Harness

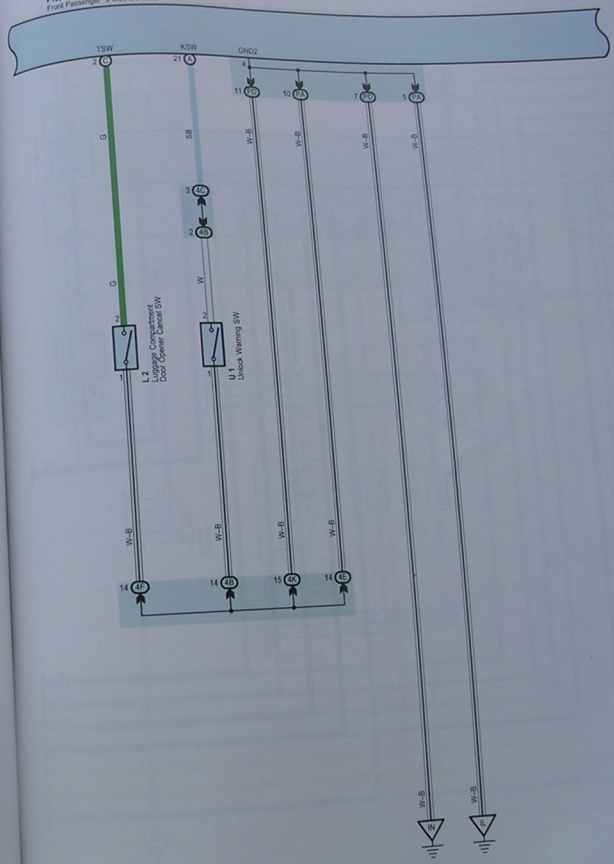
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IE1	78	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

▽ : Ground Points

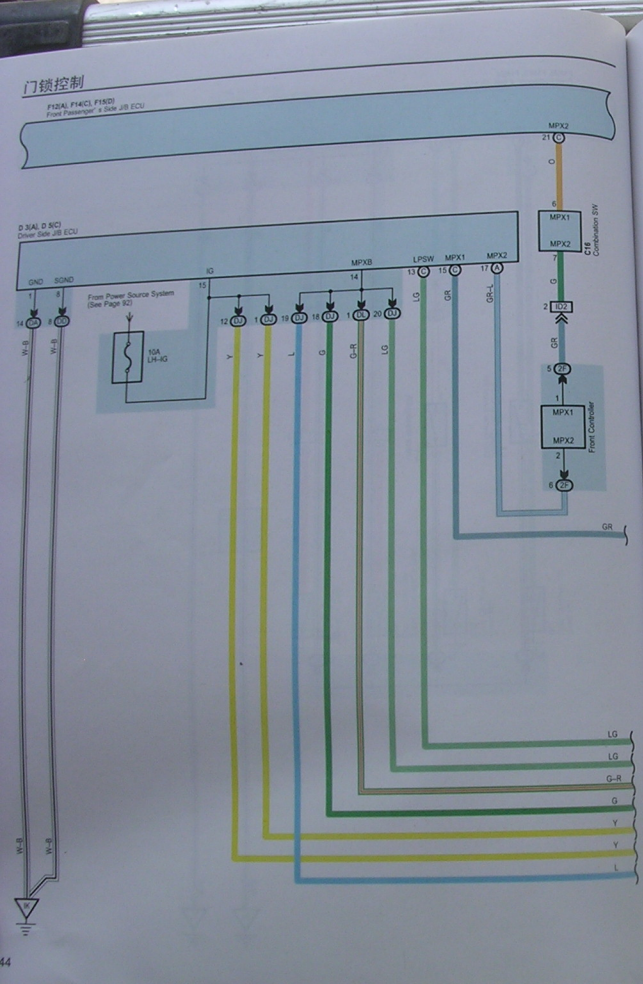
Code	See Page	Ground Points Location
EE	76	Rear Side of the Front Left Fender Apron
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH

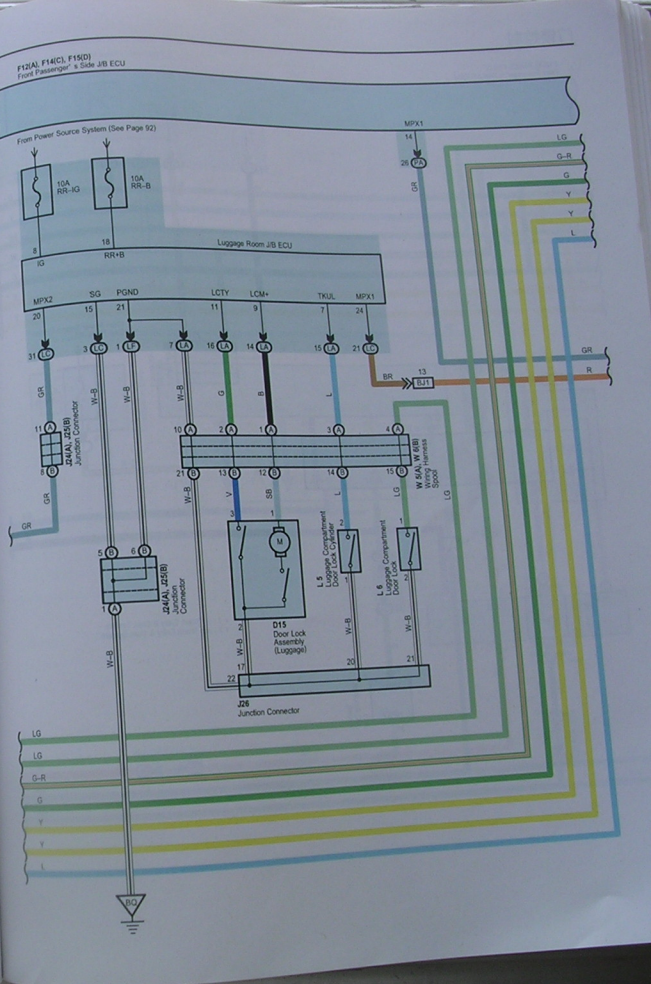
门锁控制


From Power Source System (See Page 92)
F12(A), F14(C), F15(D)
Front Passenger' s Side J/B ECU
7.5A ACC
10A ECU-IG RH
IG
ACC
CBD2
DCTY
PCTY
RCTY
LCTY
BR
R
SB
G
SIL
D2 DLC3
D9 Door Courtesy SW (Driver' s Side)
D10 Door Courtesy SW (Front Passenger' s Side)
D12 Door Courtesy SW (Rear RH)
D11 Door Courtesy SW (Rear LH)

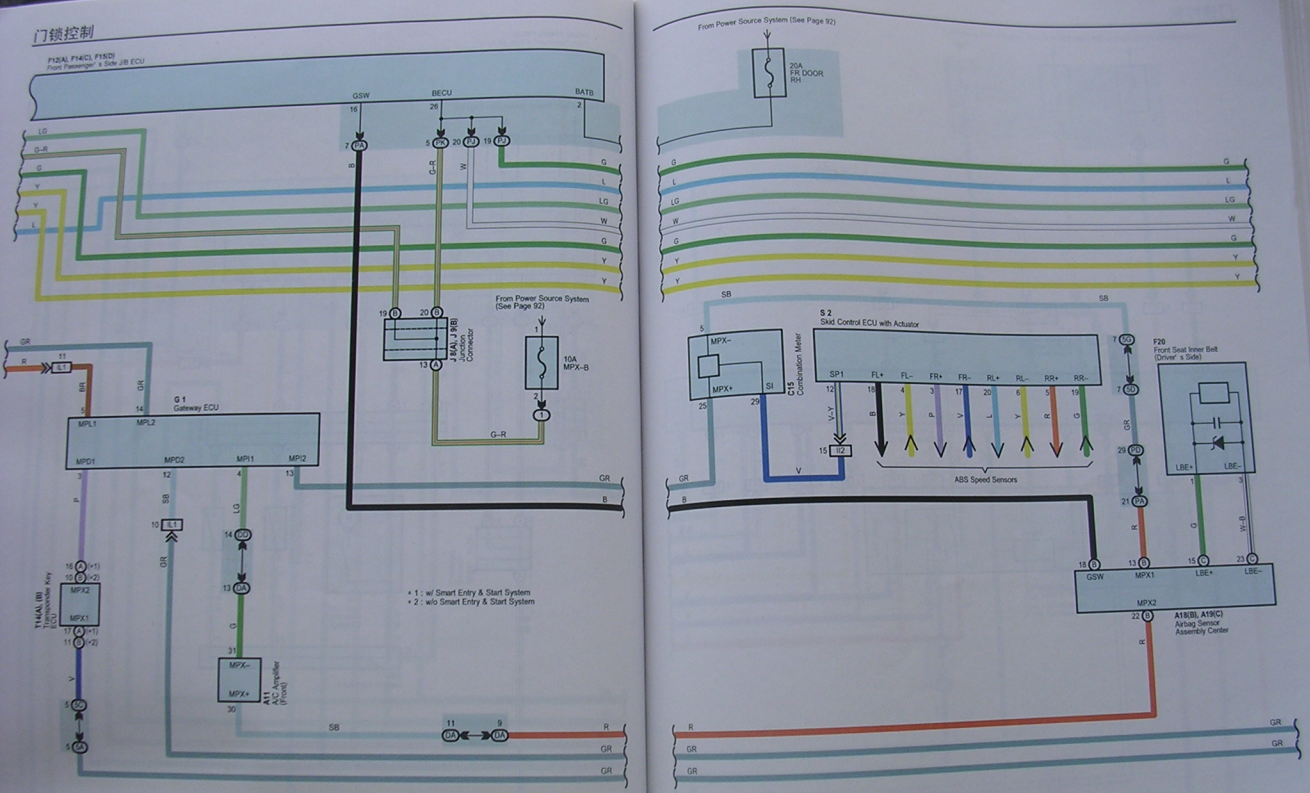

F12(A), F14(C), F15(D)
Front Passenger' s Side J/B ECU
TSW
KSW
GND2
L2 Luggage Compartment Door Opener Cancel SW
U1 Unlock Warning SW
W-B

门锁控制

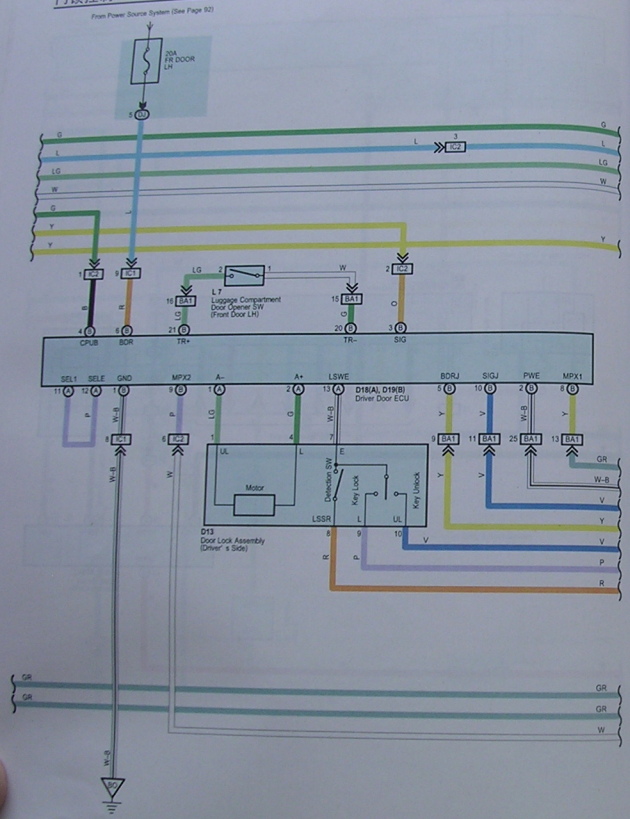

F12(A), F14(C), F15(D)
Front Passenger's Side J/B ECU
MPX2
MPX1
MPX2
C16
Combination SW
D 3(A), D 5(C)
Driver Side J/B ECU
GND
SGND
IG
MPXB
LPSW
MPX1
MPX2
From Power Source System (See Page 92)
10A
LH-IG
MPX1
MPX2
Front Controller
W-B
Y
L
O
G-R
LG
GR
GR-L
LG
LG
G-R
G
Y
Y
L
W-B
W-B

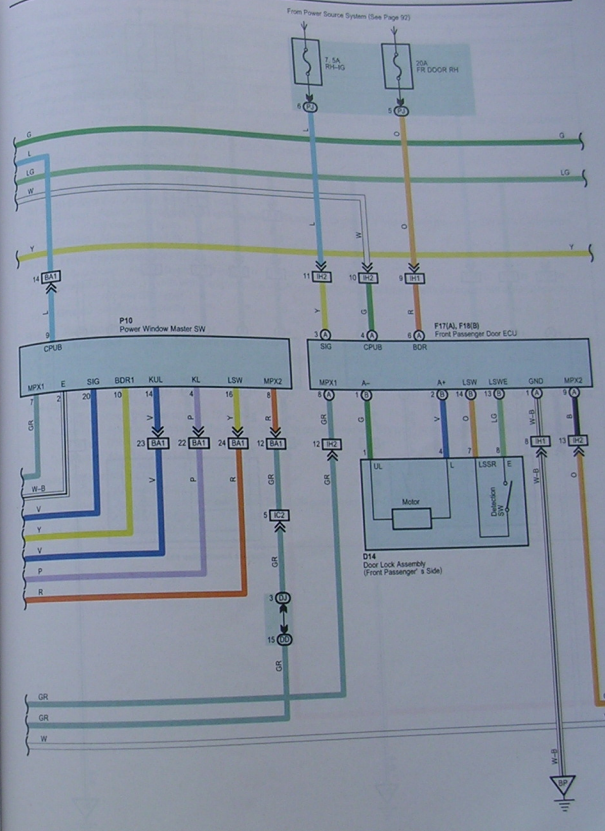

F12(A), F14(C), F15(D)
Front Passenger's Side J/B ECU
From Power Source System (See Page 92)
10A
RR-IG
10A
RR-B
Luggage Room J/B ECU
IG
RR+B
MPX2
SG
PGND
LCTY
LCM+
TKUL
MPX1
MPX1
J24(A), J24(B)
Junction Connector
W-B
W-B
W-B
G
B
L
GR
W-B
V
SB
L
LG
J24(A), J24(B)
Junction Connector
W-B
W-B
W-B
L5
Luggage Compartment
Door Lock Motor
L5
Luggage Compartment
Door Lock
D15
Door Lock
Assembly
(Luggage)
J26
Junction Connector
W-B
W-B
W-B
W-B
Wiring Harness
Side
LG
LG
G-R
G
Y
Y
L
GR
R
BR
BJ1
LG
G-R
G
Y
Y
L
BQ

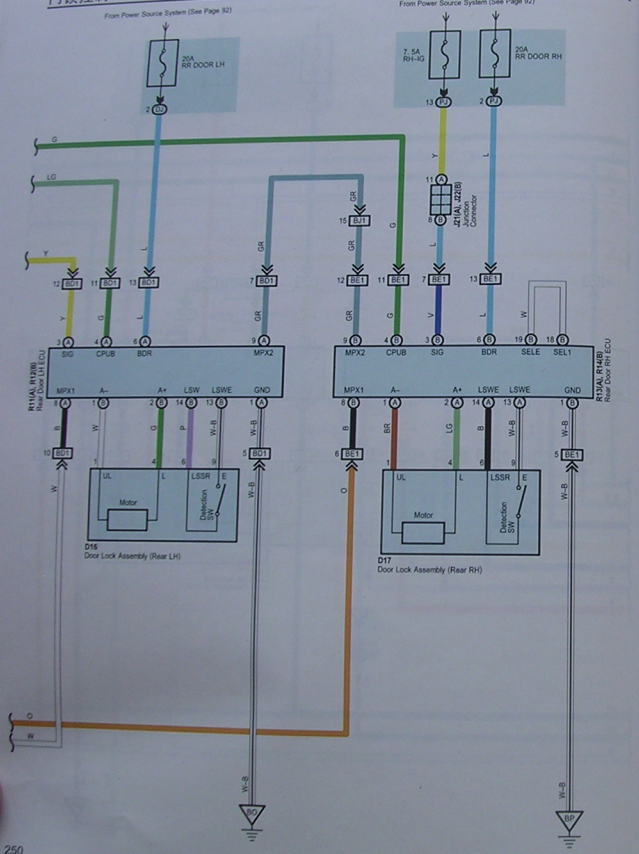
门锁控制


F12(AL, F14(CL, F15(D)
Front Passenger' s Side J/B ECU
GSW
BECU
BATB
From Power Source System (See Page 92)
J 8(A), J 9(B)
Junction Block Connector
10A
MPX–B
G 1
Gateway ECU
MPL1
MPL2
MPD1
MPD2
MPI1
MPI2
T14(AL (B)
Transponder Key Unit
MPX2
MPX1
MPX–
MPX+
A1
A/C Amplifier (Front)
* 1 : w/ Smart Entry & Start System
* 2 : w/o Smart Entry & Start System
From Power Source System (See Page 92)
20A
FR DOOR RH
S 2
Skid Control ECU with Actuator
C15
Combination Meter
ABS Speed Sensors
F20
Front Seat Inner Belt (Driver' s Side)
LBE+
LBE–
GSW
MPX1
MPX2
A18(B), A19(C)
Airbag Sensor Assembly Center

门锁控制


From Power Source System (See Page 92)
20A FR DOOR LH
L7
Luggage Compartment Door Opener SW (Front Door LH)
D18(A), D19(B)
Driver Door ECU
D13
Door Lock Assembly (Driver's Side)
Motor
Detection SW
Key Lock
Key Unlock
CPUB
BDR
TR+
TR-
SIG
SEL1
SEL2
GND
MPX2
A-
A+
LSWE
BDRJ
SIGJ
PWE
MPX1
UL
L
E
LSSR


From Power Source System (See Page 92)
7.5A RH-IG
20A FR DOOR RH
P10
Power Window Master SW
F17(A), F18(B)
Front Passenger Door ECU
D14
Door Lock Assembly (Front Passenger's Side)
Motor
Detection SW
CPUB
SIG
BDR
MPX1
E
BDR1
KUL
KL
LSW
MPX2
A-
A+
LSWE
GND
LSSR
UL
L



System Outline

In the door lock system, the respective door ECU controls the door lock motor. When the doors are locked/unlocked by the door lock control SW or the door key lock/unlock SW, the respective door ECU controls the motors through multiplex communication.

Service Hints

Front Passenger's Side J/B ECU

15–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

22–Ground : Approx. 12 volts with the ignition SW at ON or ACC position (Ignition SW type) or with the power SW at IG ON or ACC ON position (Power SW type)

2, 26–Ground : Always approx. 12 volts

4–Ground : Always continuity

D19 (B) Driver Door ECU

(B) 4, (B) 6–Ground : Always approx. 12 volts

(B) 3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

(B) 1–Ground : Always continuity

F17 (A) Front Passenger Door ECU

(A) 4, (A) 6–Ground : Always approx. 12 volts

(A) 3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

(A) 1–Ground : Always continuity

R11 (A) Rear Door LH ECU

(A) 4, (A) 6–Ground : Always approx. 12 volts

(A) 3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

(A) 1–Ground : Always continuity

R14 (B) Rear Door RH ECU

(B) 4, (B) 6–Ground : Always approx. 12 volts

(B) 3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

(B) 1–Ground : Always continuity

Luggage Room J/B ECU

17, 18–Ground : Always approx. 12 volts

8–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

15, 21–Ground : Always continuity

门锁控制

○ : Parts Location

Code		See Page
A11		66
A18	B	66
A19	C	66
C15		66
C16		66
D2		67
D3	A	67
D5	C	67
D9		70
D10		70
D11		70
D12		70
D13		70
D14		70
D15		70
D16		70
D17		70
D18	A	70
D19	B	70
F12	A	67
F14	C	67
F15	D	67
F17	A	71
F18	B	71
F20		71
G1		67
J8	A	68
J9	B	68
J21	A	71
J22	B	71
J24	A	71
J25	B	71
J26		71
L2		68
L5		71
L6		71
L7		71
P10		72
R11	A	72
R12	B	72
R13	A	72
R14	B	72
S2		65
T14	A	69
	B	69
U1		69
W5	A	73
W6	B	73

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2F	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
4B	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4C		
4E		
4F		
4I		
4K		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5C		
5D		
5G		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
DJ	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
DL	54	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
LA	55	
LC		
LF		
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD	40	Floor Wire and Front Passenger's Side J/B (Cowl Side Right)
PJ	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)
PK		

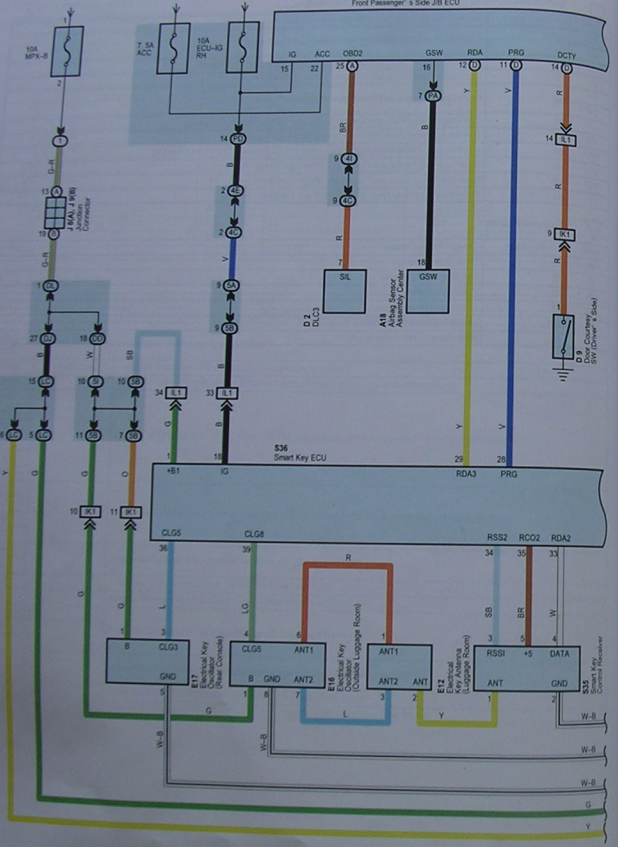
▢ : Connector Joining Wire Harness and Wire Harness

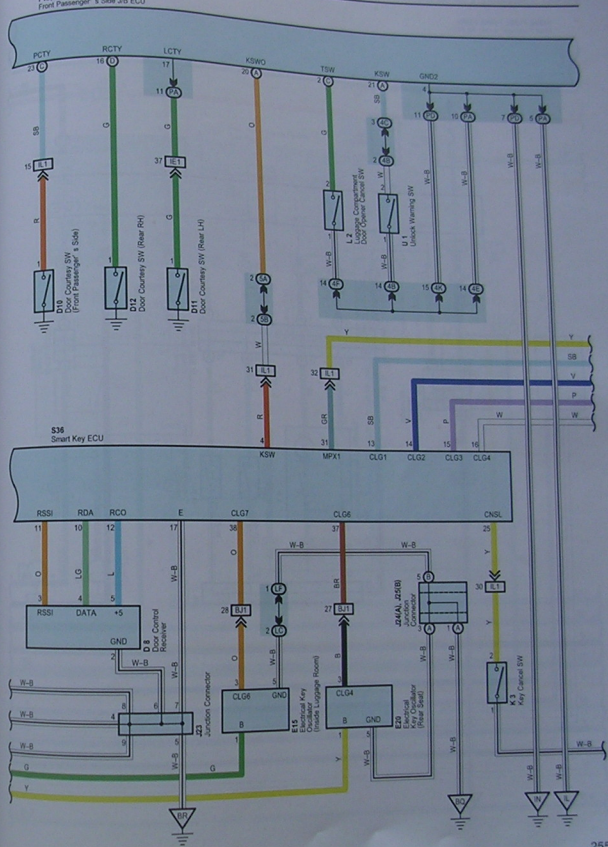
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC1	78	Front Door LH Wire and Floor No.2 Wire (Left Kick Panel)
IC2		
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IE1	78	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
IH1	80	Front Door RH Wire and Floor Wire (Right Kick Panel)
IH2		
II2	80	Instrument Panel Wire and Engine Room Main Wire (Right Kick Panel)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BA1	82	Front Door LH Wire and Front Door LH No.2 Wire (Inside of the Front Door LH)
BD1	82	Rear Door No.2 Wire and Floor No.2 Wire (Left Center Pillar)
BE1	82	Rear Door No.1 Wire and Floor Wire (Right Center Pillar)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

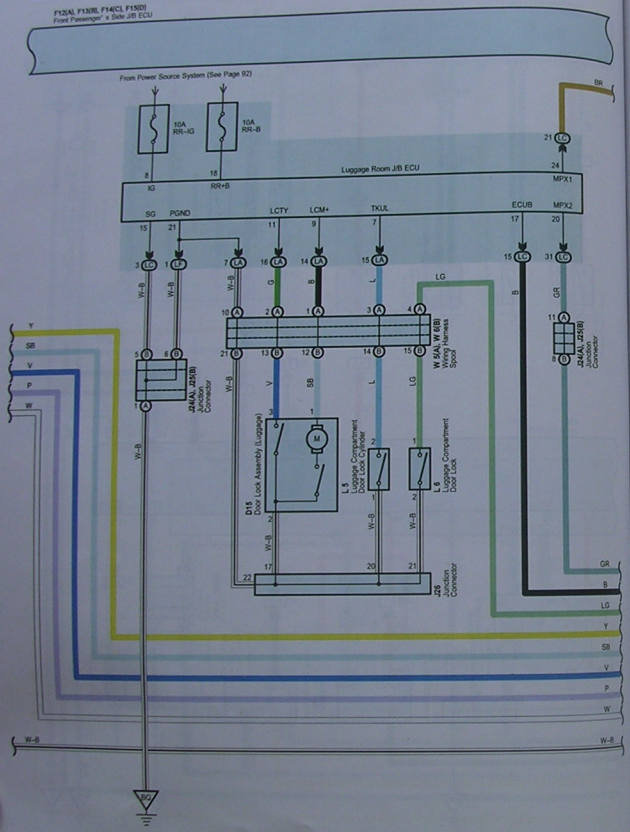
▽ : Ground Points

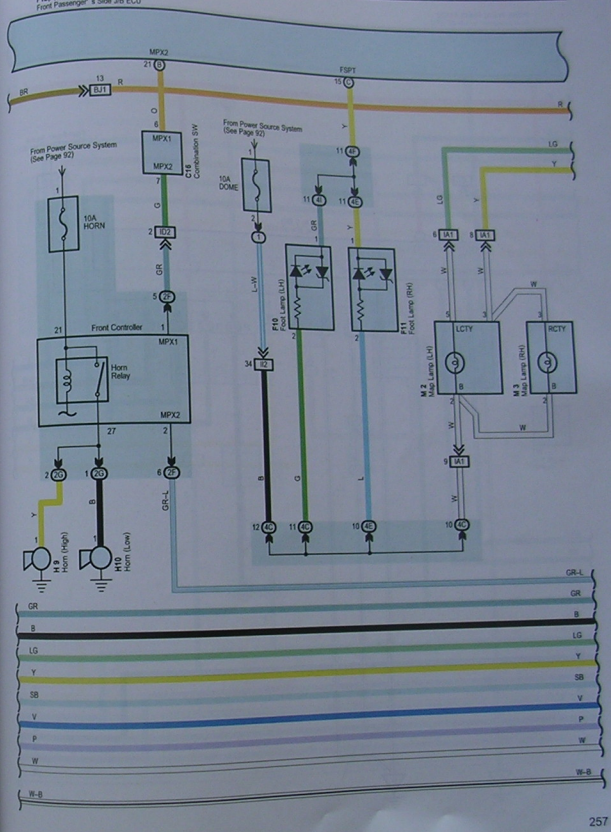
Code	See Page	Ground Points Location
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH
BO	82	Under the Driver's Seat
BP	82	Under the Front Passenger's Seat
BQ	82	Rear Floor Partition Panel LH

无线门锁控制（带智能进入和起动系统）

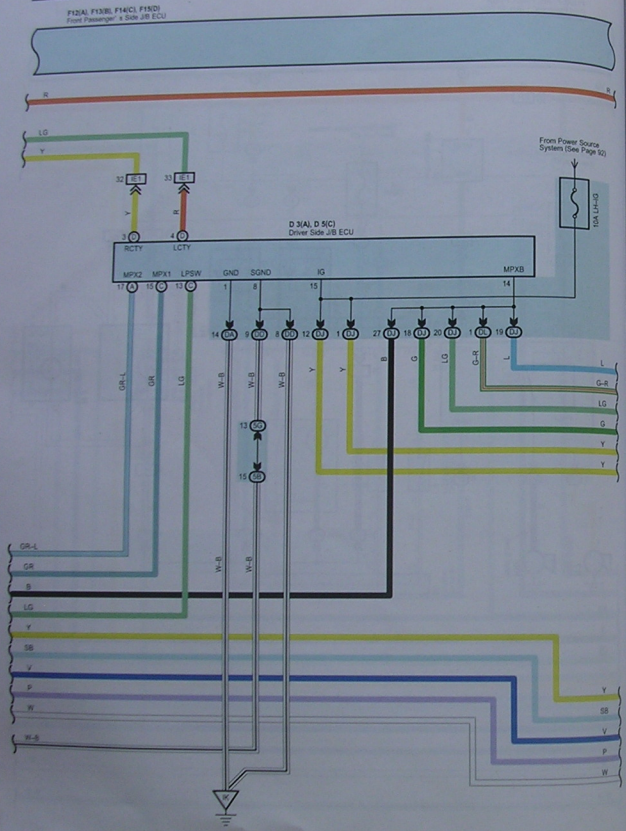


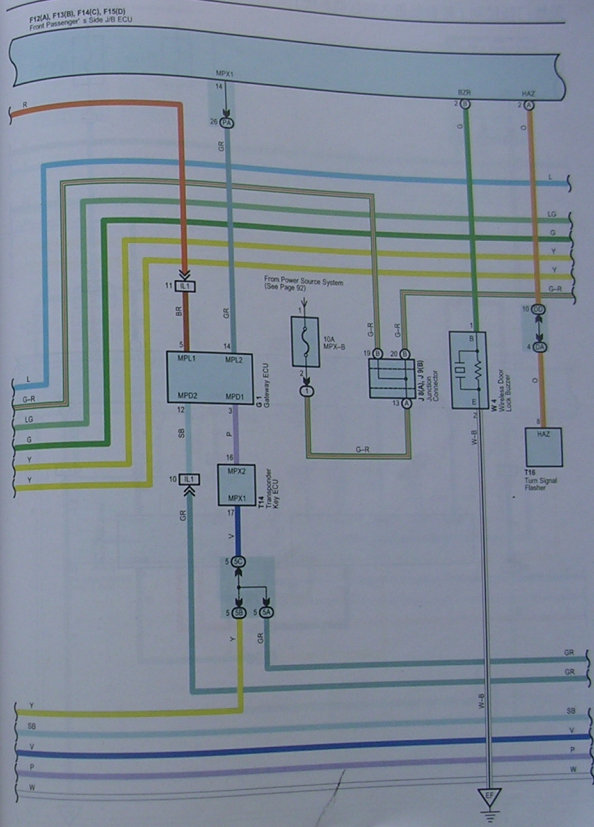



F12(AL, F13(BL, F14(CL, F15(D)
Front Passenger's Side J/B ECU
From Power Source System (See Page 92)
10A RR-IG
10A RR-B
Luggage Room J/B ECU
IG
RR+B
MPX1
MPX2
SG
PGND
LCTY
LCM+
TKUL
ECUB
BR
LG
GR
W-B
Y
SB
V
P
W
J24(AL, J25(B) Junction Connector
D15 Door Lock Assembly (Luggage)
L5 Luggage Compartment Door Lock Motor
L6 Luggage Compartment Door Lock
W-W(AL, W-B(B) Wiring Harness Spool
J25 Junction Connector
J24(AL, J25(B) Junction Connector
B2

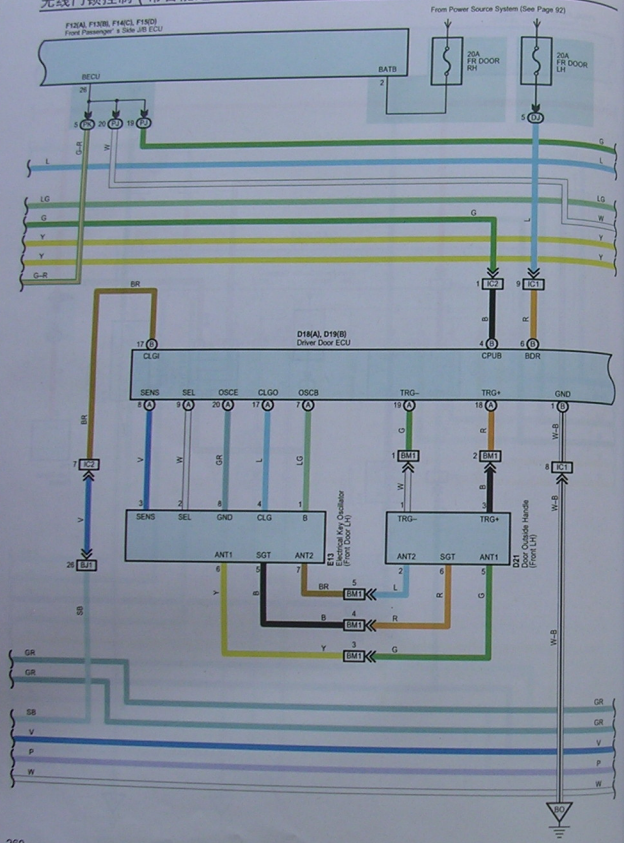

F12(AL, F13(BL, F14(CL, F15(D)
Front Passenger's Side J/B ECU
MPX2
FSPT
BR
BJ1
From Power Source System (See Page 92)
10A HORN
C16 Combination SW
10A DOME
Front Controller
Horn Relay
MPX1
MPX2
H9 Horn (High)
H10 Horn (Low)
F10 Foot Lamp (LH)
F11 Foot Lamp (RH)
M2 Mirror Lamp (LH)
M3 Mirror Lamp (RH)
LCTY
RCTY
GR-L
GR
B
LG
Y
SB
V
P
W
W-B

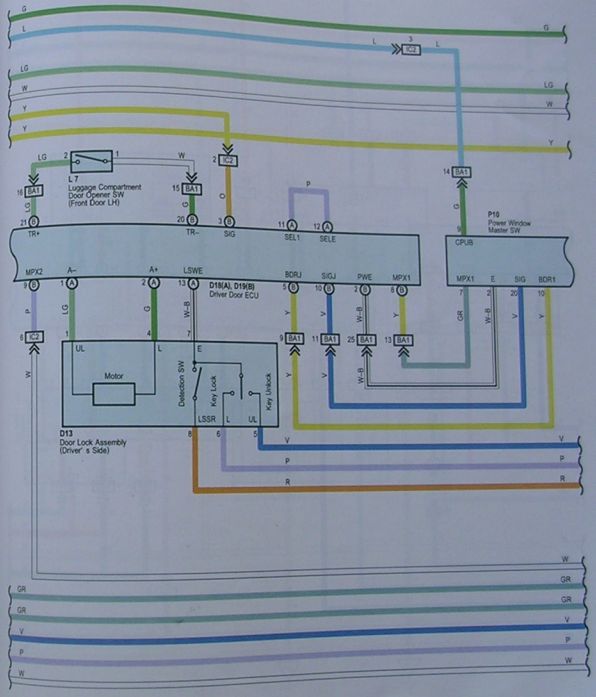
无线门锁控制（带智能进入和起动系统）



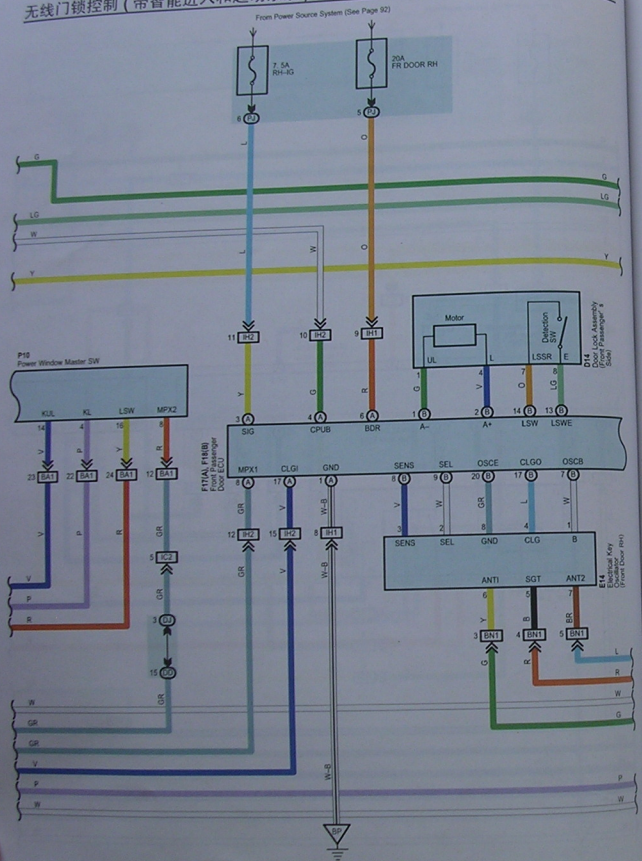


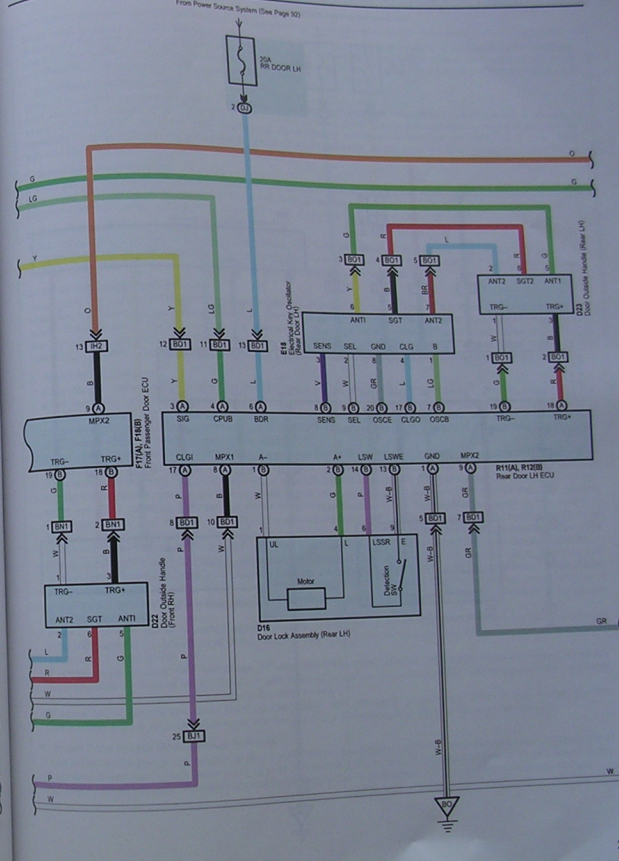
无线门锁控制（带智能进入和起动系统）



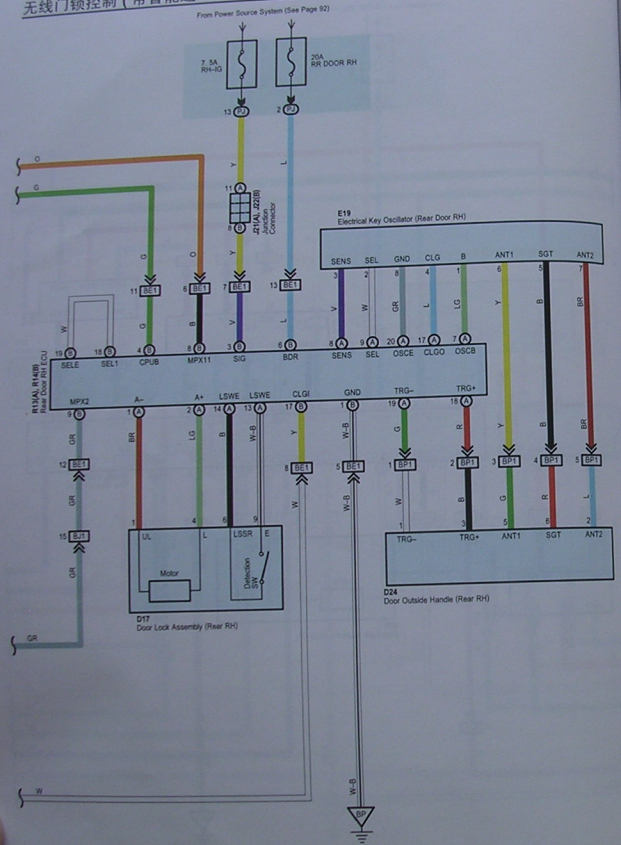


无线门锁控制（带智能进入和起动系统）





无线门锁控制（带智能进入和起动系统）



System Outline

Smart entry system is a system to enable, without operating the key, to lock/unlock doors, to unlatch luggage compartment door, to start engine. It owes interactive communication function of electrical key, which makes the vehicle to recognize where the key is. All that driver has to do is to have the key with him or her. If the electrical key runs out of dry battery, the key operates as mechanical key without the smart key system.

1. Smart Door Unlock Function

When all the doors are locked, oscillator of each door sends signal regularly and forms detecting area outside of passenger room around 0.7 to 1m from each door handle. After forming the area, driver goes in the area with the electrical key, the key sends ID code signal. Smart key ECU receives the signal through electrical key antenna and identifies ID code. After identifying ID code, doors in the area get into unlock stand–by condition. At this time, sensors installed in door handles activate. Touching back of door handles unlocks the door locks.

2. Smart Door Lock Function

If driver gets off the vehicle with the electrical key and pushes lock SW of door handles when all doors are locked, smart key ECU sends signal to inside and outside of passenger room to identify the electrical key. In case identification with inside of the passenger room is NG and that with outside of it is OK, doors lock.

3. Smart Luggage Compartment Door Unlatch Function

If the driver stands in front of luggage compartment door with the electrical key and pushes unlock SW of luggage compartment door, ID code of the electrical key is identified with smart key ECU through electrical key oscillator (Outside luggage room). After the ID code is identified, luggage compartment door is opened.

4. Smart Ignition (READY) Function

When the driver pushes the power SW with the electrical key with him or her, ID code of the electrical key is identified with smart key ECU by room oscillator in passenger room. After the ID code is identified, engine immobilizer is released and electric power is set at ACC ON to enable to start engine. Then pushing the power SW sets power supply at IG ON and another pushing sets it at OFF. Condition circulates from ACC ON to/from IG ON to/from OFF and to ACC ON. The vehicle gets READY to drive when the driver pushes power SW with applying brake pedal at any power supply condition.

5. Smart Alarm Function

- If any door is opened and then shut with shift at P range and the power SW at other than OFF position, all doors closed, smart key ECU identifies ID code with inside of passenger room. In case the identification result is NG, buzzer in combination meter alarms (Once) and wireless door lock buzzer alarms (Three times), and smart warning light in combination meter lights up. If power supply is pushed OFF with power SW or identification of the electrical key with inside of passenger room is confirmed, the warning stops.
- If all the doors are closed with shift at P range and power SW at other than OFF position, pushing lock SW of door handle starts smart key ECU to identify ID code with inside and outside of passenger room. In case result of identification with inside is NG and that with outside is confirmed, wireless door lock buzzer alarms (For two seconds) and doors do not lock.
- If driver's side door is opened and then shut with shift at other than P range and power SW at other than OFF position, smart key ECU identifies ID code with inside of passenger room. In case the identification result is NG, buzzer in combination meter and wireless door lock buzzer alarm continuously as well as smart warning light in combination meter lights up. Then, if shift is put into P range or the identification with inside is confirmed, the continuos alarming stops. If the driver turns electric power OFF with power SW or the identification with inside is confirmed, smart warning light goes off.
- If other doors than driver's side door is opened and under vehicle's stationary condition and power SW at other than OFF position, smart key ECU identifies ID code. In case the identification result is NG, buzzer in combination meter alarms (Once) and wireless door lock buzzer alarms (Three times), and smart warning light in combination meter lights up. If power supply is pushed OFF with power SW or identification with inside of passenger room is confirmed at the second time, the warning stops.
- If lock SW of door handle is pushed with all the doors shut and power SW at OFF position, smart key ECU identifies ID code with inside of passenger room. In case the identification is confirmed then, wireless door lock buzzer alarms (For two seconds) but doors do not lock.
- If power supply is turned OFF with power SW after "READY to drive" condition are kept for about 20 minutes, smart key ECU identifies ID code of the electrical key with inside of passenger room. In case the ECU recognizes code of battery voltage decrease, buzzer in combination meter alarms once.
- If power SW is pushed ON, smart key ECU identifies ID code with inside of passenger room. In case the identification result is NG, buzzer in combination meter alarms once and smart warning light lights up for about five seconds.

6. Smart Door Unlock Mode Change Function

If lock button and luggage room button of electrical key are pushed simultaneously for about five seconds with power SW at off position, smart door unlock mode changes to all door unlock mode or to each door unlock mode or driver's unlock mode. The unlock modes circulate. Wireless door lock buzzer and buzzer in combination meter sound to inform mode change.

7. Power Saving Function for Battery

In case the electrical key does not send signal for five days or longer, interval between identification time is extended from long interval verification.
In case the electrical key does not send signal for 14 days or longer, or the key is in detected area outside of vehicle for ten minutes or longer, smart function stops its operation. Smart function resumes under following conditions.

- When lock and unlock signal of wireless function of the key is input and its ID code is identified.
- When doors are locked with lock SW ON.
- When doors are locked or unlocked with door key SW operation.

8. Manual Operation Function

Electrical key has lock, unlock, and luggage room buttons. It can operate wireless door locking manually. Its operation is the same as one without smart key system.

9. Smart Illumination Function

When driver goes in detected area outside of passenger room with electrical key with him or her and its ID code is identified, interior light, light up.

10. Smart Entry System Cancelled

Smart key system is cancelled under following conditions.

- When key cancel SW is turned on.
- When electrical key is inserted in key slot.
- When battery of electrical key is dead.

Service Hints

S36 Smart Key ECU

1–Ground : Always approx. 12 volts
18–Ground : Approx. 12 volts with the power SW at IG ON position
17–Ground : Always continuity
25–Ground : Continuity with the key cancel SW at ON position

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A18	66	E14	71	J24 A	71
C16	66	E15	71	J25 B	71
D2	67	E16	71	J26	71
D3 A	67	E17	67	K3	68
D5 C	67	E18	71	L2	68
D8	70	E19	71	L5	71
D9	70	E20	71	L6	71
D10	70	F10	67	L7	71
D11	70	F11	67	M2	71
D12	70	F12 A	67	M3	71
D13	70	F13 B	67	P10	72
D14	70	F14 C	67	R11 A	72
D15	70	F15 D	67	R12 B	72
D16	70	F17 A	71	R13 A	72
D17	70	F18 B	71	R14 B	72
D18 A	70	G1	67	S35	73
D19 B	70	H9	63	S36	73
D21	70	H10	63	T14	69
D22	70	J8 A	68	T16	69
D23	70	J9 B	68	U1	69
D24	70	J21 A	71	W4	65
E12	71	J22 B	71	W5 A	73
E13	71	J23	71	W6 B	73

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2F	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
2G		
4B	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4C		
4E		
4F		
4I		
4K		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5B		
5C		
5G		
5I		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
DJ	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
DL	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
LA	54	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
LC	55	
LF		
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PJ	40	Floor Wire and Front Passenger's Side J/B (Cowl Side Right)
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)

□ : Connector Joining Wire Harness and Wire Harness

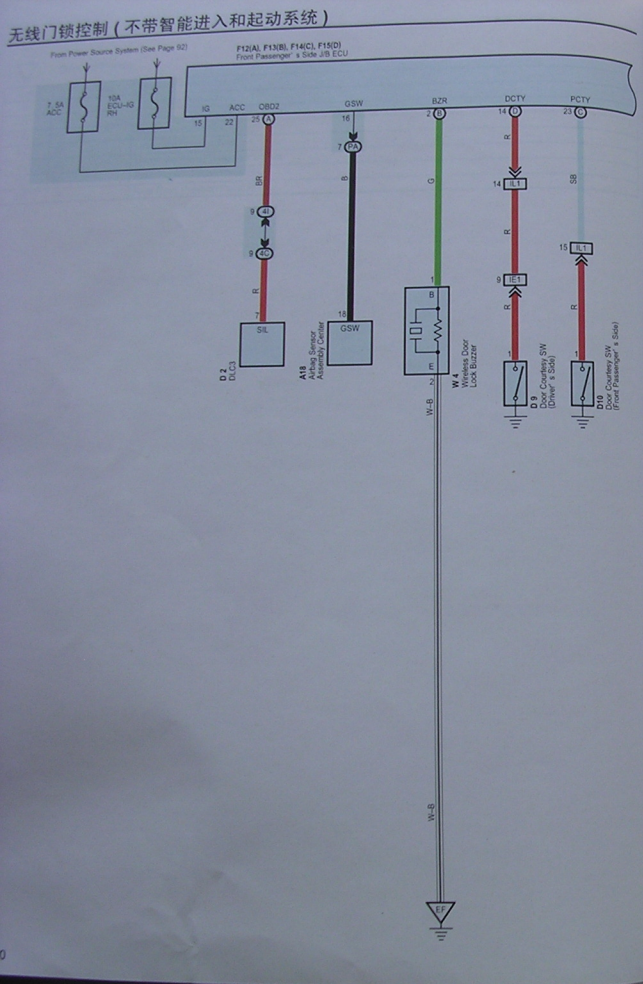
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	78	Instrument Panel Wire and Roof Wire (Left Side of Instrument Panel)
IC1	78	Front Door LH Wire and Floor No.2 Wire (Left Kick Panel)
IC2		
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IE1	78	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
IH1	80	Front Door RH Wire and Floor Wire (Right Kick Panel)
IH2		
II2	80	Instrument Panel Wire and Engine Room Main Wire (Right Kick Panel)
IK1	80	Instrument Panel Wire and Floor Wire (Under the Rear Console)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BA1	82	Front Door LH Wire and Front Door LH No.2 Wire (Inside of the Front Door LH)
BD1	82	Rear Door No.2 Wire and Floor No.2 Wire (Left Center Pillar)
BE1	82	Rear Door No.1 Wire and Floor Wire (Right Center Pillar)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)
BM1	84	Front Door LH Wire and Front Electrical Key LH Wire (Inside of the Front Door LH)
BN1	84	Front Door RH Wire and Front Electrical Key RH Wire (Inside of the Front Door RH)
BO1	84	Rear Electrical Key LH Wire and Rear Door No.2 Wire (Inside of the Rear Door LH)
BP1	84	Rear Electrical Key RH Wire and Rear Door No.1 Wire (Inside of the Rear Door RH)

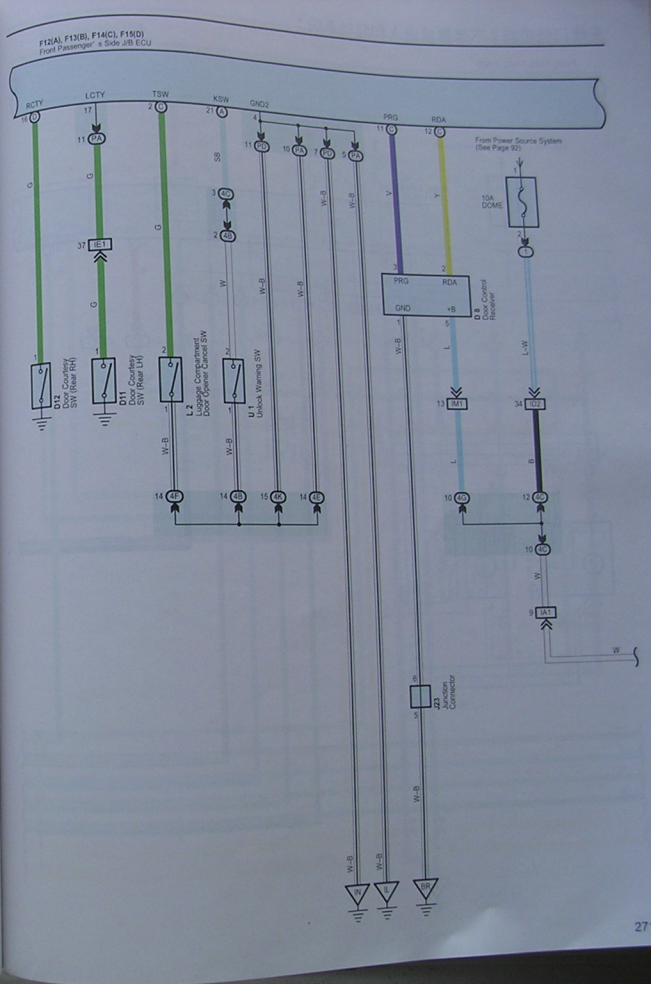
无线门锁控制（带智能进入和起动系统）

▽ : Ground Points

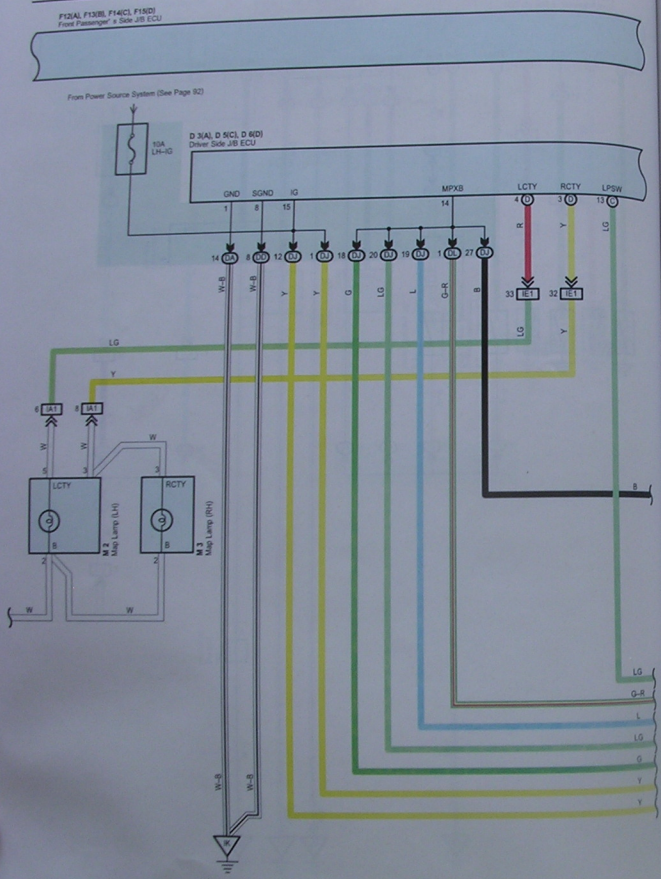
Code	See Page	Ground Points Location
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH
BO	82	Under the Driver's Seat
BP	82	Under the Front Passenger's Seat
BQ	82	Rear Floor Partition Panel LH
BR	82	Rear Floor Partition Panel RH

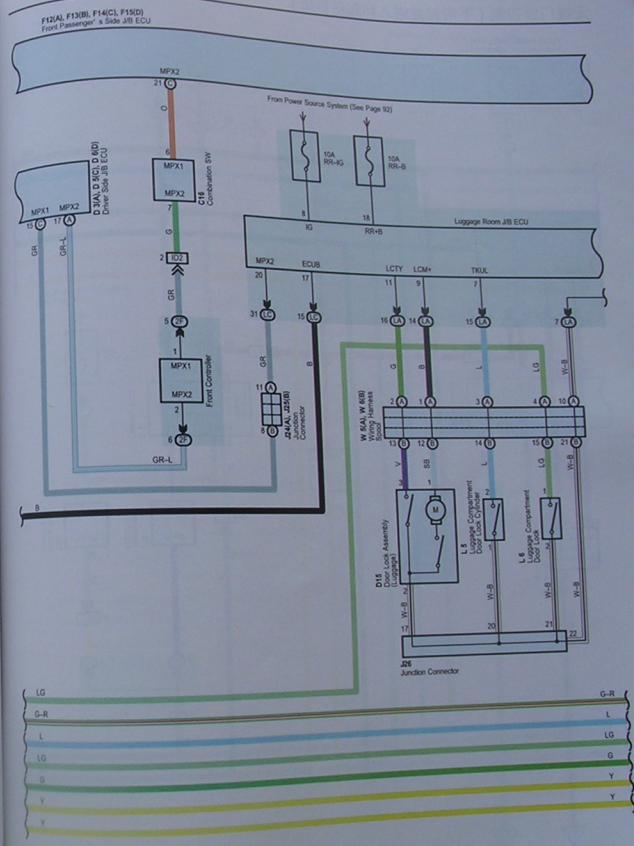
无线门锁控制（不带智能进入和起动系统）



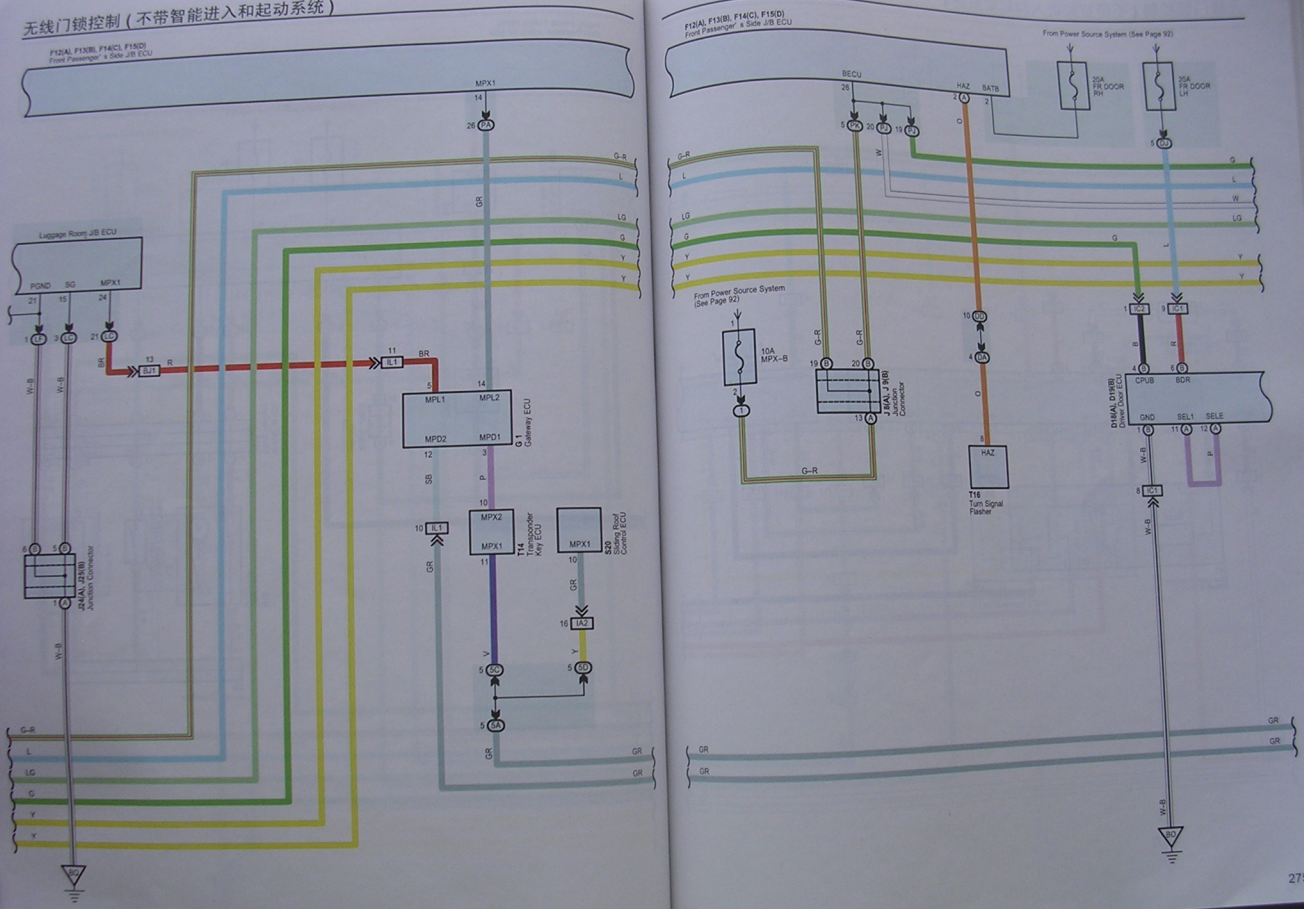


无线门锁控制（不带智能进入和起动系统）

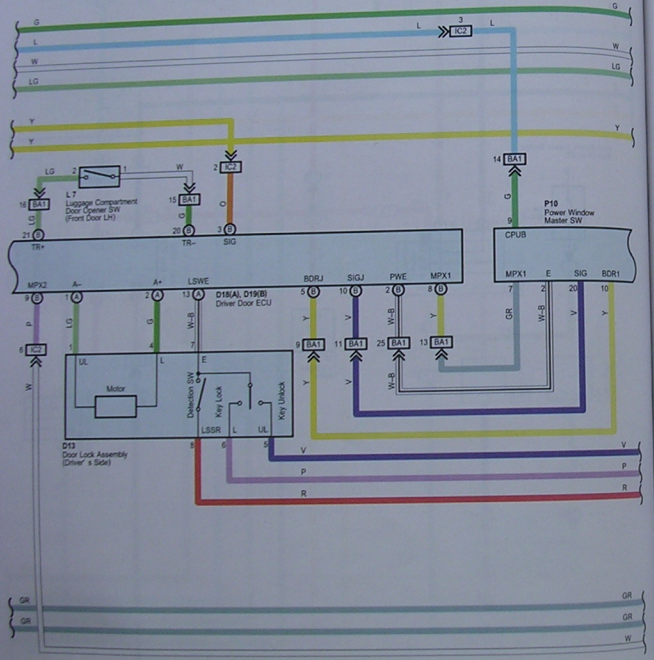


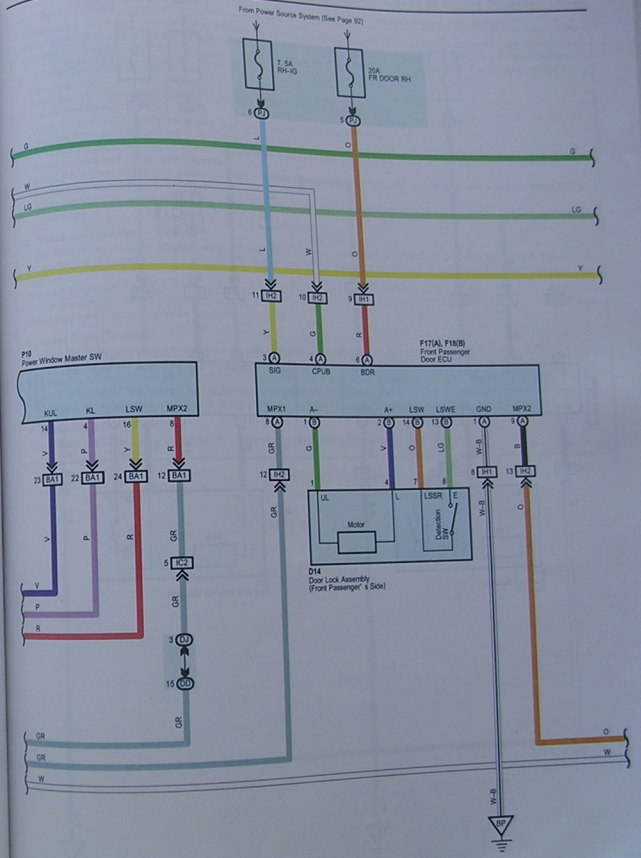


无线门锁控制（不带智能进入和起动系统）

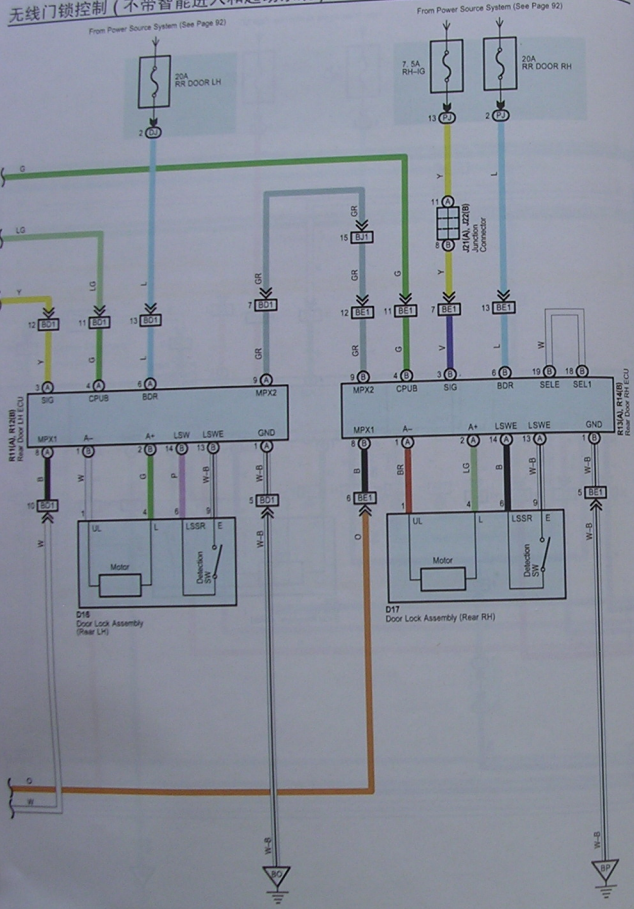


无线门锁控制（不带智能进入和起动系统）





无线门锁控制（不带智能进入和起动系统）



System Outline

In this system, the door lock control receiver receives weak radio wave transmitted from the transmitter built-into the ignition key and outputs the signal to the front passenger's side J/B ECU. Through communication control of the front passenger's side J/B ECU and door ECU etc. , all the doors and the luggage door can be locked and unlocked by the remote control.

1. Normal Operation

- Lock operation
  When the lock SW on the transmitter is pressed, all the doors are locked.
- Unlock operation
  When the unlock SW on the transmitter is pressed, all the doors are unlocked.
- Luggage door unlock operation
  When the luggage door unlock SW is kept pressed for approximately 0.8 sec. or longer, the luggage door is opened.
- Power window and sliding roof operation
  When the unlock SW is kept pressed for approximately 2.5 sec. the all windows and sliding roof opened, unlock SW is released the stopped.
  When the lock SW is kept pressed for approximately 2.5 sec. the all windows and sliding roof closed, lock SW is released the stopped.

2. Auto Lock Function

If the door is not actually opened within 30 sec. after the door has been unlocked by pressing the unlock SW on the transmitter, all the doors are automatically locked. If any of the following conditions is detected, the auto lock does not function.
Any door is opened.
The ignition key is inserted into the ignition SW.
When the lock detection SW of all the doors are locked.

3. Anser Back Function

- When the doors are locked by wireless operation, the hazard lights blink once.
- When the doors are unlocked by wireless operation, hazard lights blink twice.
- When the doors are locked by wireless operation with each door open (Courtesy SW ON), the buzzer sounds. If all the doors are closed, the ignition key is inserted into the ignition SW, door key lock and unlock SW is controlled, doors are unlocked by wireless operation or buzzer keeps sounding for 10 seconds, the buzzer sounding stops.

4. Illuminated Entry Function

If the doors are unlocked when all the doors are locked, the room light is turned on for 15 seconds.

无线门锁控制（不带智能进入和起动系统）

Service Hints

Front Passenger's Side J/B ECU

15–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

22–Ground : Approx. 12 volts with the ignition SW at ON or ACC position (Ignition SW type) or with the power SW at IG ON or ACC ON position (Power SW type)

2, 26–Ground : Always approx. 12 volts

4–Ground : Always continuity

D19 (B) Driver Door ECU

(B) 4, (B) 6–Ground : Always approx. 12 volts

(B) 3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

(B) 1–Ground : Always continuity

F17 (A) Front Passenger Door ECU

(A) 4, (A) 6–Ground : Always approx. 12 volts

(A) 3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

(A) 1–Ground : Always continuity

R11 (A) Rear Door LH ECU

(A) 4, (A) 6–Ground : Always approx. 12 volts

(A) 3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

(A) 1–Ground : Always continuity

R14 (B) Rear Door RH ECU

(B) 4, (B) 6–Ground : Always approx. 12 volts

(B) 3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

(B) 1–Ground : Always continuity

Luggage Room J/B ECU

17, 18–Ground : Always approx. 12 volts

8–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

15, 21–Ground : Always continuity

: Parts Location

Code	See Page
A18	66
C16	66
D2	67
D3 A	67
D5 C	67
D6 D	67
D8	70
D9	70
D10	70
D11	70
D12	70
D13	70
D14	70
D15	70
D16	70
D17	70
D18 A	70

Code	See Page
D19 B	70
F12 A	67
F13 B	67
F14 C	67
F15 D	67
F17 A	71
F18 B	71
G1	67
J8 A	68
J9 B	68
J21 A	71
J22 B	71
J23	71
J24 A	71
J25 B	71
L2	68
L5	71

Code	See Page
L6	71
L7	71
M2	71
M3	71
P10	72
R11 A	72
R12 B	72
R13 A	72
R14 B	72
S20	73
T14	69
T16	69
U1	69
W4	65
W5 A	73
W6 B	73

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

: Junction Block and Wire Harness Connector

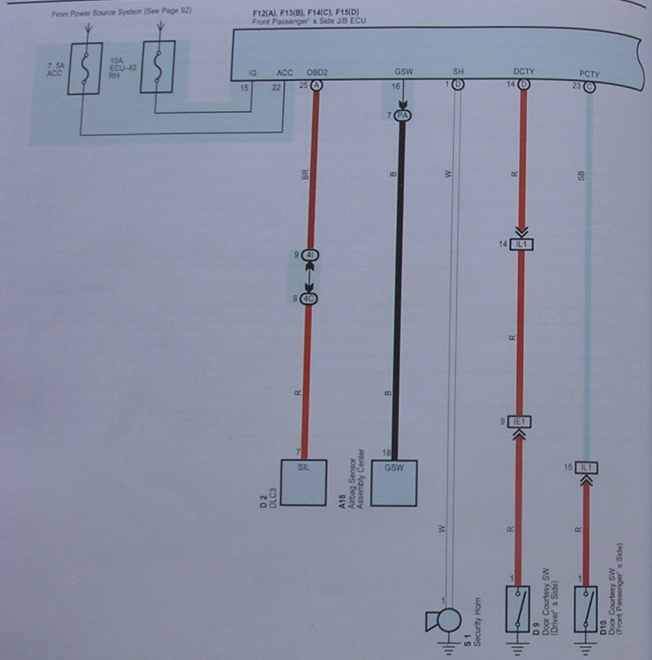
Code	See Page	Junction Block and Wire Harness (Connector Location)
2F	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
4B	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4C		
4E		
4F		
4I		
4K		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5C		
5D		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
DJ	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
LA	54	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
LC	55	
LF		
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PJ	40	Floor Wire and Front Passenger's Side J/B (Cowl Side Right)
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)

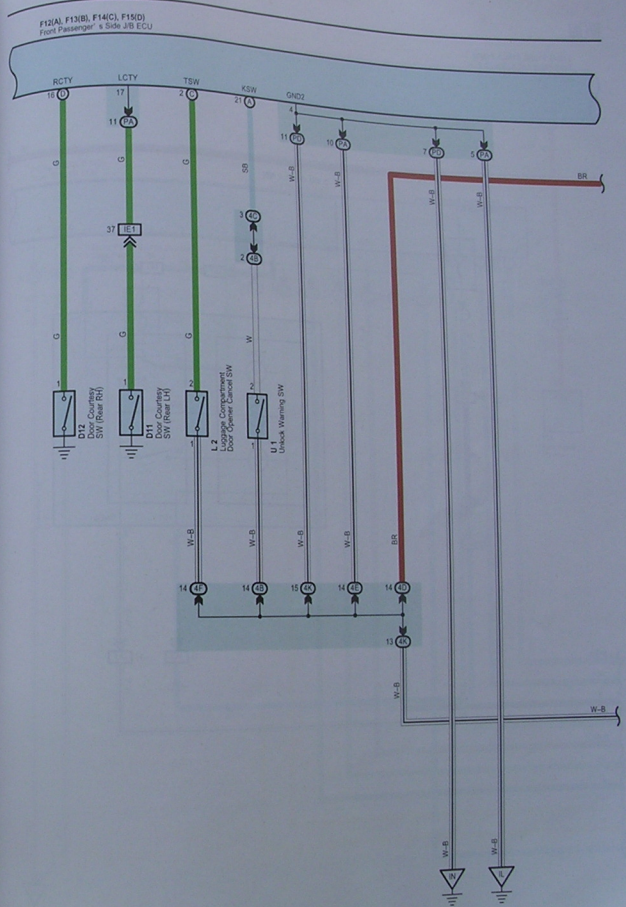
□ : **Connector Joining Wire Harness and Wire Harness**

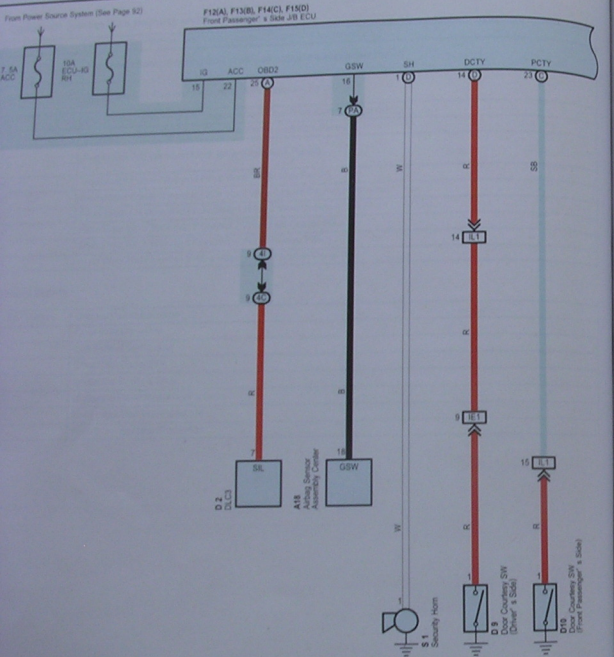
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	78	Instrument Panel Wire and Roof Wire (Left Side of the Instrument Panel)
IA2		
IC1	78	Front Door LH Wire and Floor No.2 Wire (Left Kick Panel)
IC2		
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IE1	78	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
IH1	80	Front Door RH Wire and Floor Wire (Right Kick Panel)
IH2		
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
IM1	80	Instrument Panel Wire and Floor No.2 Wire (Under the Rear Console)
BA1	82	Front Door LH Wire and Front Door LH No.2 Wire (Inside of the Front Door LH)
BD1	82	Rear Door No.2 Wire and Floor No.2 Wire (Left Center Pillar)
BE1	82	Rear Door No.1 Wire and Floor Wire (Right Center Pillar)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

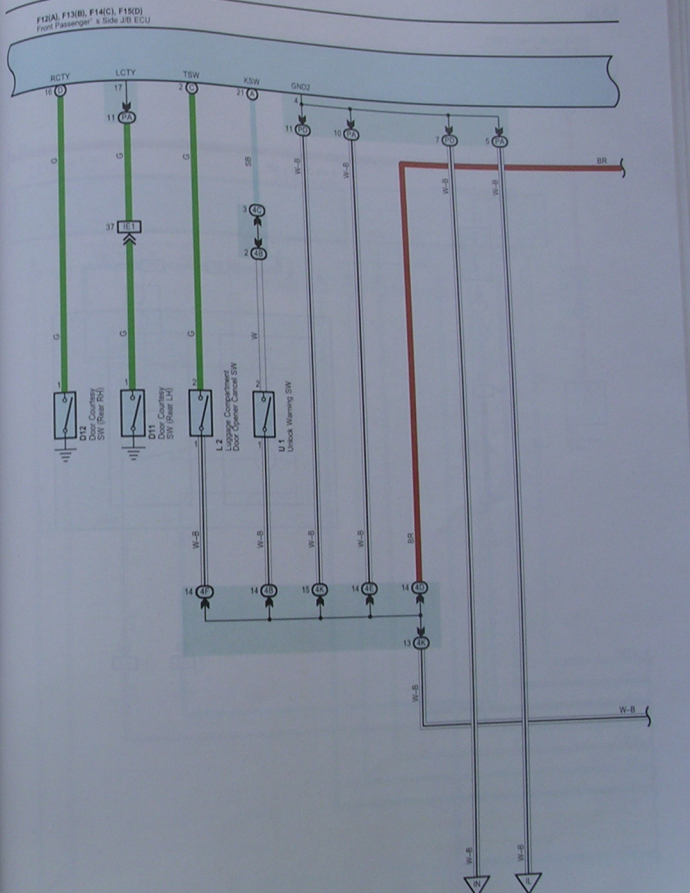
▽ : **Ground Points**

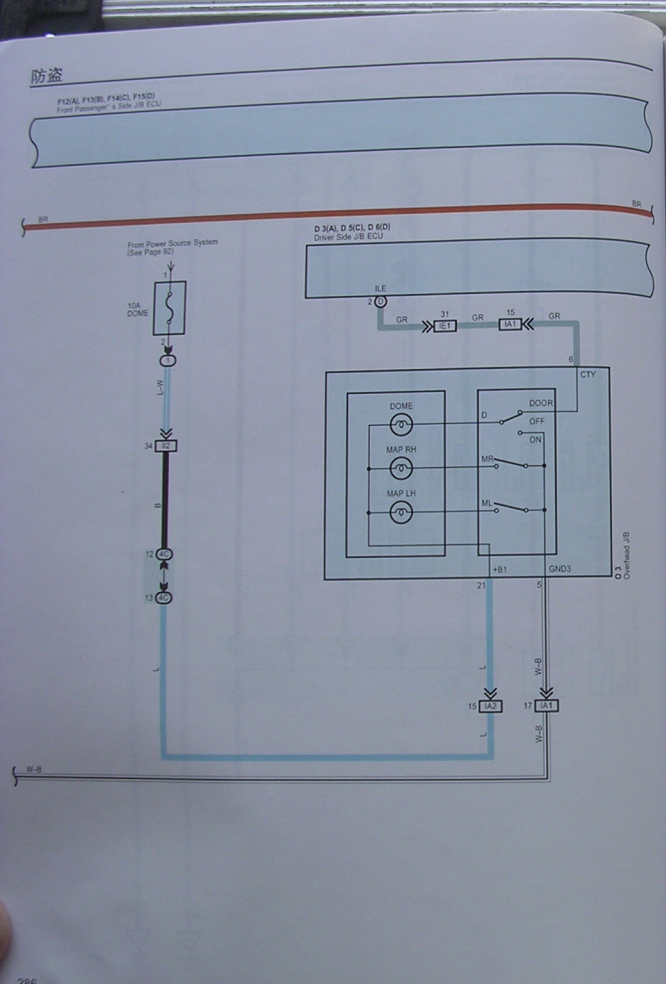
Code	See Page	Ground Points Location
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH
BO	82	Under the Driver's Seat
BP	82	Under the Front Passenger's Seat
BQ	82	Rear Floor Partition Panel LH
BR	82	Rear Floor partition Panel RH

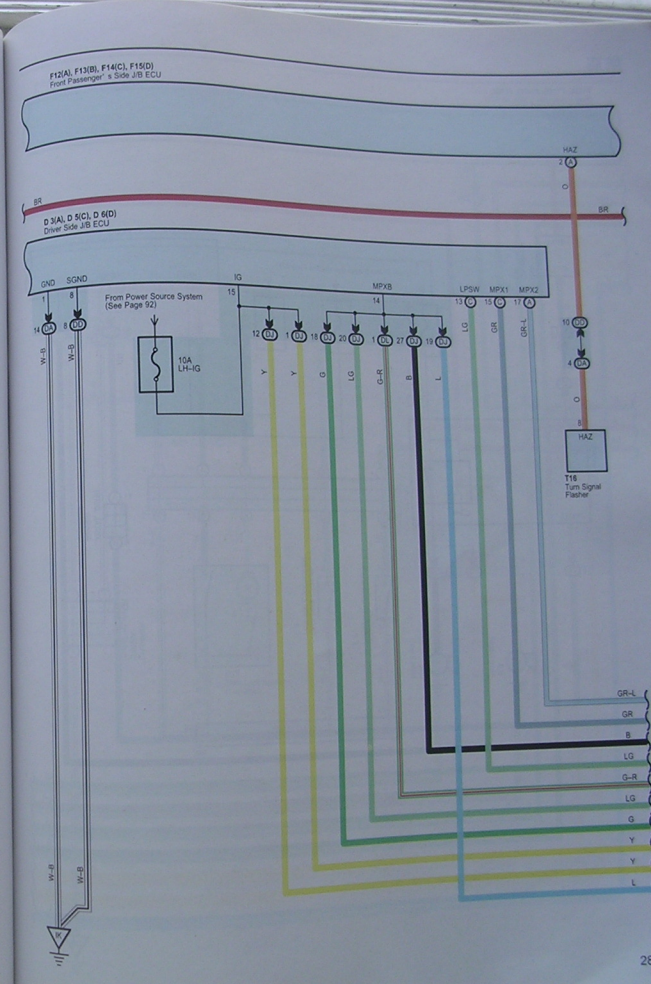

From Power Source System (See Page 92)
7.5A ACC
10A ECU-IG RH
F12(A), F13(B), F14(C), F15(D)
Front Passenger's Side J/B ECU
IG
ACC
OBD2
GSW
SH
DCTY
PCTY
BR
B
W
R
SB
IE1
SIL
GSW
D2 DLC3
A18 Alarm Sensor Assembly Center
S1 Security Horn
D9 Door Courtesy SW (Driver's Side)
D10 Door Courtesy SW (Front Passenger's Side)

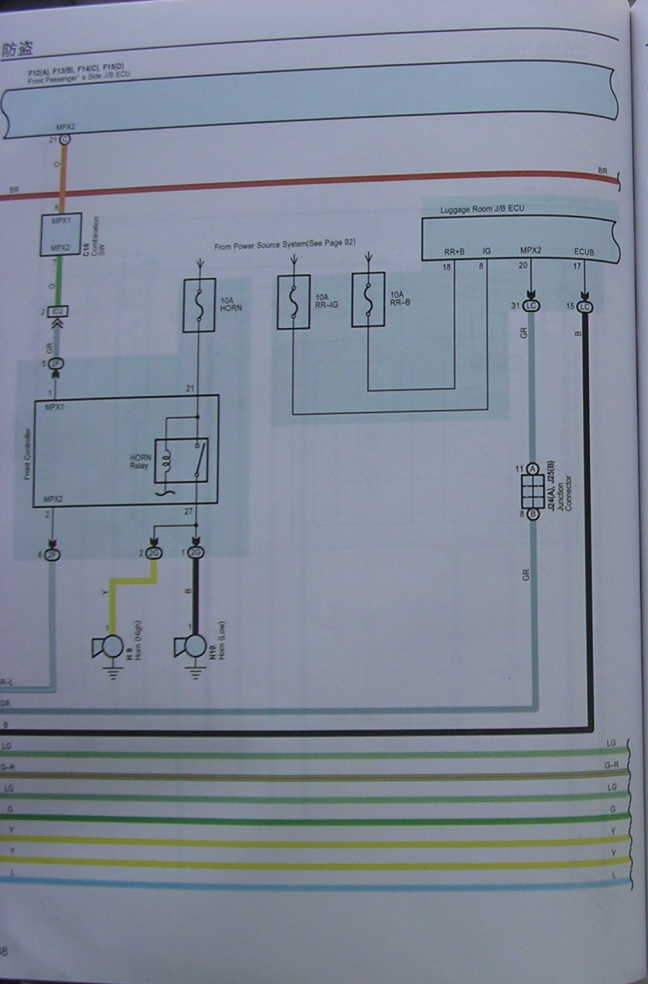

F12(A), F13(B), F14(C), F15(D)
Front Passenger's Side J/B ECU
RCTY
LCTY
TSW
KSW
GND2
G
SB
W-B
BR
D12 Door Courtesy SW (Rear RH)
D11 Door Courtesy SW (Rear LH)
L2 Luggage Compartment Door Opener Relay SW
U1 Unlock Warning SW

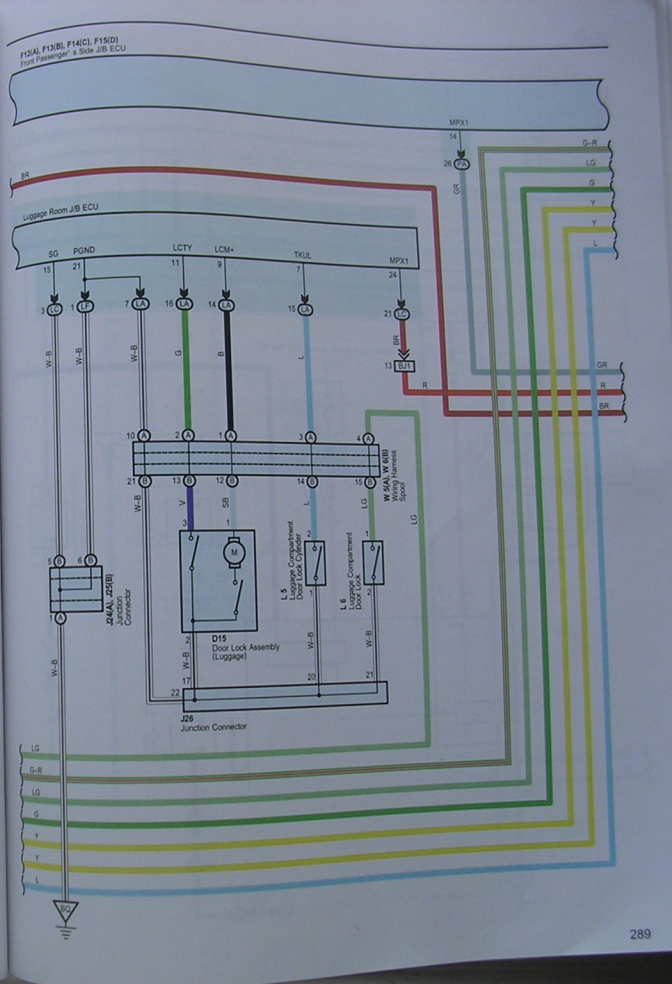

From Power Source System (See Page 92)
F12(A), F13(B), F14(C), F15(D)
Front Passenger' s Side J/B ECU
10A
ECU-IG
RH
IG
ACC
OBD2
GSW
SH
DCTY
PCTY
SRL
GSW
D 2
DLC3
A18
Airbag Sensor
Assembly Center
S 1
Security Horn
D 9
Door Courtesy SW
(Driver' s Side)
D10
Door Courtesy SW
(Front Passenger' s Side)

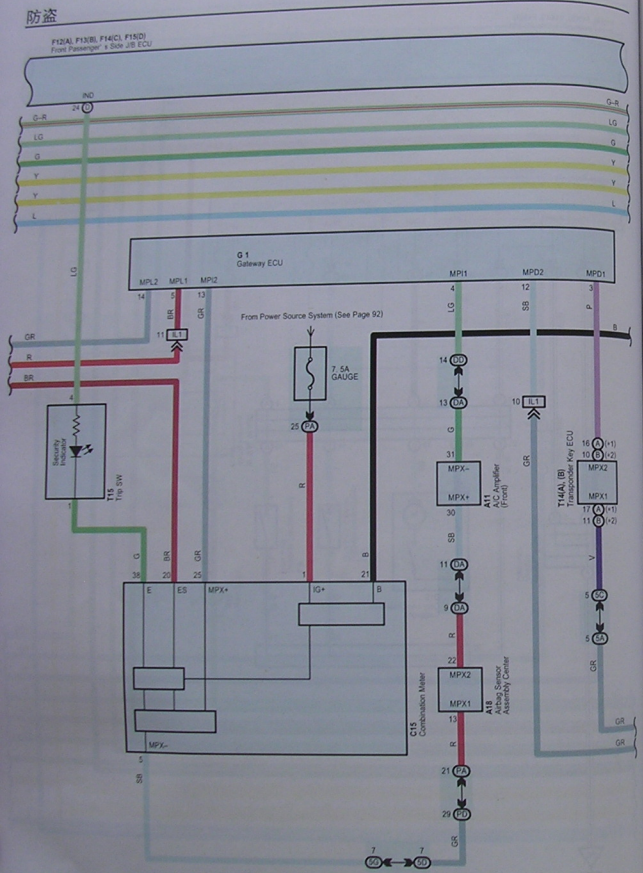

F12(A), F13(B), F14(C), F15(D)
Front Passenger' s Side J/B ECU
RCTY
LCTY
TSW
KSW
GND2
D12
Door Courtesy
SW (Rear RH)
D11
Door Courtesy
SW (Rear LH)
L2
Luggage Compartment
Door Opener Cancel SW
U1
Unlock Warning SW
BR
W-B

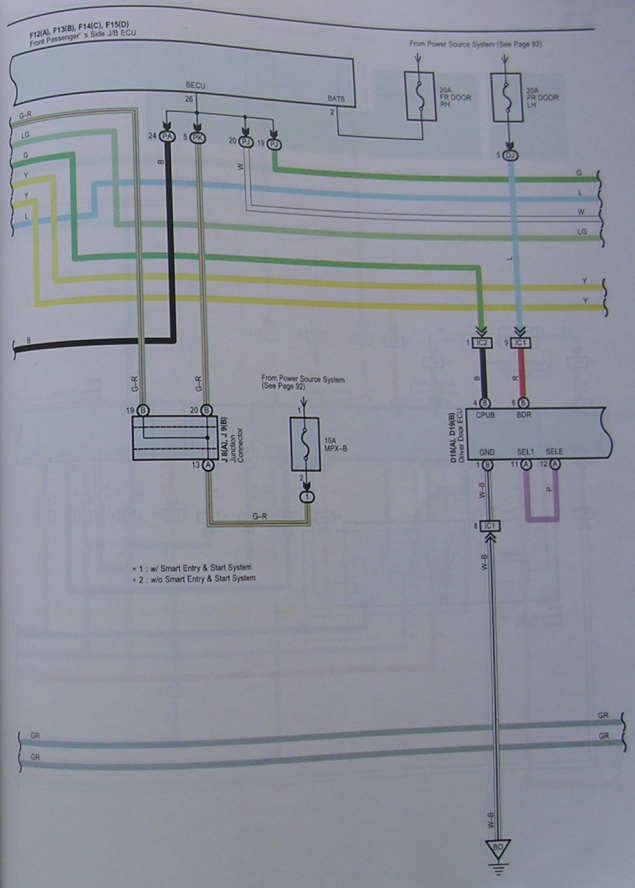

F12(A), F13(B), F14(C), F15(D)
Front Passenger's Side J/B ECU
BR
BR
From Power Source System
(See Page 92)
D 3(A), D 5(C), D 6(D)
Driver Side J/B ECU
10A
DOME
1
2
ILE
2
GR
31
IE1
GR
15
IA1
GR
6
CTY
DOME
DOOR
D
OFF
ON
MR
MAP RH
MAP LH
ML
+B1
GND3
21
5
D 3
Overhead J/B
L-W
34
IE
B
12
IA
13
IA
L
L
W-B
15
IA2
17
IA1
W-B
L
W-B

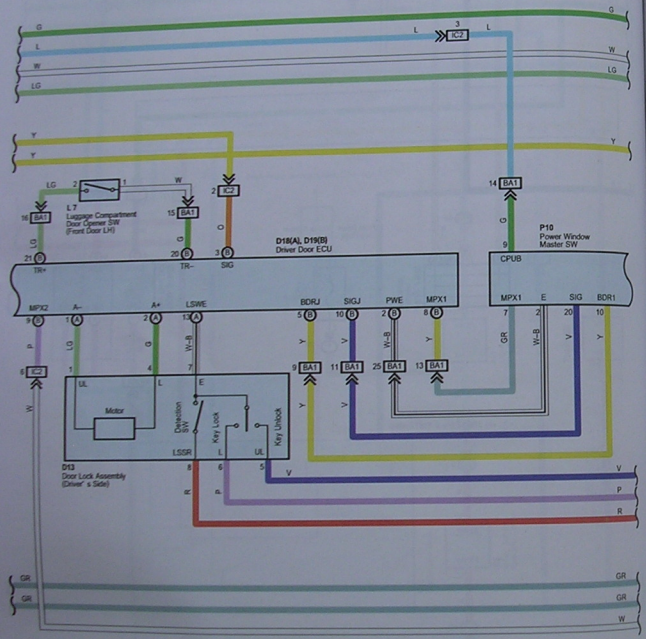

F12(A), F13(B), F14(C), F15(D)
Front Passenger's Side J/B ECU
HAZ
7
O
BR
BR
D 3(A), D 5(C), D 6(D)
Driver Side J/B ECU
GND
SGND
IG
MPXB
LPSW
MPX1
MPX2
1
8
15
14
13
15
17
From Power Source System
(See Page 92)
10A
LH-IG
12
1
18
20
1
27
19
LG
GR
GR-L
10
4
O
B
HAZ
T16
Turn Signal
Flasher
W-B
W-B
Y
Y
G
LG
G-R
B
L
GR-L
GR
B
LG
G-R
LG
G
Y
Y
L
W-B
W-B

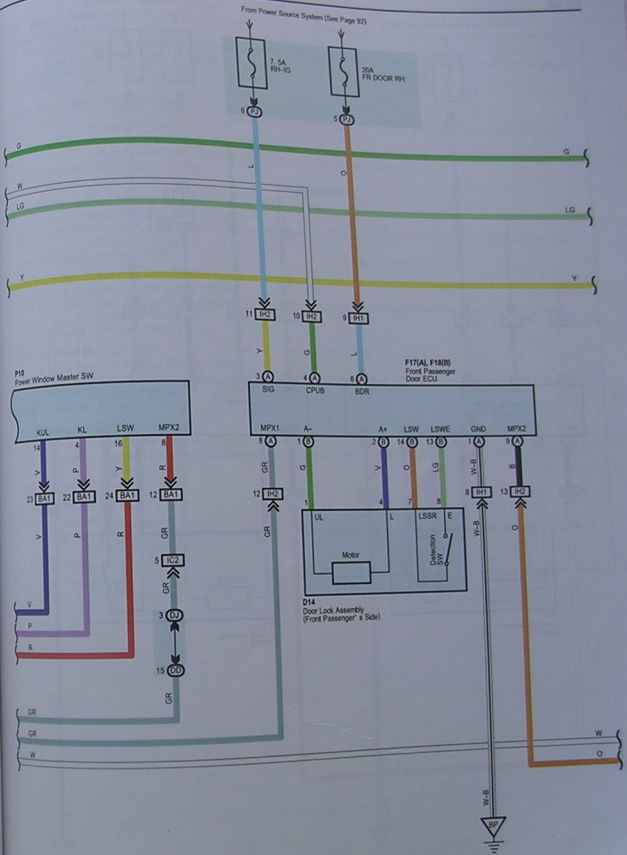

F12(AL F13(BL F14(CL F15(D)
Front Passenger's Side J/B ECU
MPX2
21
O
BR
MPX1
MPX2
C16
Ignition SW
G
IG2
GR
2
1
21
MPX1
Front Controller
HORN Relay
MPX2
27
2
6
2
1
Y
B
H9
Horn (High)
H10
Horn (Low)
From Power Source System(See Page 92)
10A
HORN
10A
RR-IG
10A
RR-B
Luggage Room J/B ECU
RR+B
IG
MPX2
ECUB
18
8
20
17
31
15
GR
B
11
6
J24(AL J25(B)
Junction
Connector
GR
B
LG
G-R
LG
G
Y
Y
L


F12(AL F13(BL F14(CL F15(D)
Front Passenger's Side J/B ECU
MPX1
14
26
G-R
LG
G
Y
Y
L
GR
BR
Luggage Room J/B ECU
SG
PGND
LCTY
LCM+
TKUL
MPX1
15
21
11
9
7
24
3
1
7
16
14
15
21
13
BJ1
W-B
W-B
W-B
G
B
L
BR
GR
R
R
BR
10
2
1
3
4
27
13
12
14
15
W-B
V
SB
L
LG
3
1
2
1
J24(AL J25(B)
Junction
Connector
W-B
L5
Luggage Compartment
Door Lock Sensor
L6
Luggage Compartment
Door Lock
W (6AL W (6B)
Wire Harness
Spool
LG
D15
Door Lock Assembly
(Luggage)
W-B
W-B
W-B
2
17
22
20
21
J26
Junction Connector
LG
G-R
LG
G
Y
Y
L
W-B

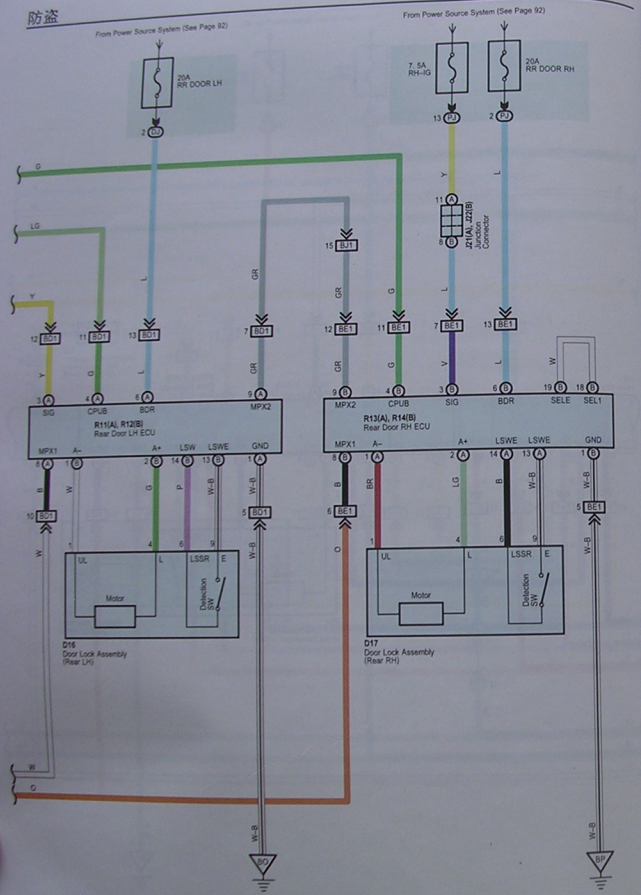

F12(A), F13(B), F14(C), F15(D)
Front Passenger's Side J/B ECU
IND
24
G-R
LG
G
Y
L
G 1
Gateway ECU
MPL2
MPL1
MPI2
MPI1
MPD2
MPD1
14
13
4
12
3
BR
GR
LG
SB
P
B
From Power Source System (See Page 92)
11
IL1
CR
R
BR
7.5A
GAUGE
25
RA
14
DG
13
BA
10
IL1
16
10
11
(+1)
(+2)
(-1)
(-2)
T14(A), (B)
Transponder Key ECU
Security Indicator
T15
Trip SW
1
G
38
BR
20
GR
25
R
1
21
B
E
ES
MPX+
IG+
B
MPX-
C15
Combination Meter
MPX-
MPX+
30
A11
A/C Amplifier
(Front)
SB
11
BA
9
BA
R
22
MPX2
MPX1
13
A15
Airbag Sensor
Assembly Center
R
21
BA
29
BG
7
BG
7
LG
V
5
DG
5
BA
GR
GR
GR
SB
5


F12(A), F13(B), F14(C), F15(D)
Front Passenger's Side J/B ECU
From Power Source System (See Page 92)
BECU
26
BATB
2
20A
FR DOOR
RH
20A
FR DOOR
LH
24
BA
5
PK
20
BA
19
BA
5
DA
B
W
G-R
G-R
G
Y
L
LG
G
L
W
LG
Y
Y
B
19
B
20
B
13
A
J (A), J (B)
Junction
Connector
From Power Source System
(See Page 92)
1
10A
MPX-B
2
G-R
1
PA
9
PA
B
R
4
CPUB
6
BDR
D18(A), D19(B)
Driver Door ECU
GND
SEL1
SELE
1
11
12
W-B
P
8
BG
W-B
W-B
GR
GR
GR
GR
* 1 : w/ Smart Entry & Start System
* 2 : w/o Smart Entry & Start System


D18(A), D19(B)
Driver Door ECU
MPX2
A-
A+
LSWE
BDRJ
SIGJ
PWE
MPX1
TR+
TR-
SIG
L7
Luggage Compartment Door Opener SW (Front Door LH)
D13
Door Lock Assembly (Driver's Side)
Motor
Detection SW
Key Lock
Key Unlock
LSSR
UL
P10
Power Window Master SW
CPUB
MPX1
E
SIG
BDR1
IC2
BA1


From Power Source System (See Page 92)
7.5A RH-IG
25A FR DOOR RH
P10
Power Window Master SW
KUL
KL
LSW
MPX2
F17(A), F18(B)
Front Passenger Door ECU
SIG
CPUB
BDR
MPX1
A-
A+
LSWE
GND
D14
Door Lock Assembly (Front Passenger's Side)
Motor
Detection SW
LSSR
IH2
IM1
IM2
BA1

防盗



Service Hints

Driver Side J/B ECU

15–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

14–Ground : Always approx. 12 volts

1, 8–Ground : Always continuity

Front Passenger's Side J/B ECU

15–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

22–Ground : Approx. 12 volts with the ignition SW at ON or ACC position (Ignition SW type) or with the power SW at IG ON or ACC ON position (Power SW type)

2, 26–Ground : Always approx. 12 volts

4–Ground : Always continuity

D19 (A) Driver Door ECU

(A) 4, (A) 6–Ground : Always approx. 12 volts

(A) 3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

(A) 1–Ground : Always continuity

F17 (A) Front Passenger Door ECU

(A) 4, (A) 6–Ground : Always approx. 12 volts

(A) 3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

(A) 1–Ground : Always continuity

R11 (A) Rear Door LH ECU

(A) 4, (A) 6–Ground : Always approx. 12 volts

(A) 3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

(A) 1–Ground : Always continuity

R14 (B) Rear Door RH ECU

(B) 4, (B) 6–Ground : Always approx. 12 volts

(B) 3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

(B) 1–Ground : Always continuity

Luggage Room J/B ECU

17, 18–Ground : Always approx. 12 volts

8–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

15, 21–Ground : Always continuity

○ : Parts Location

Code		See Page
A11		66
A18		66
C15		66
C16		66
D2		67
D3	A	67
D5	C	67
D6	D	67
D9		70
D10		70
D11		70
D12		70
D13		70
D14		70
D15		70
D16		70
D17		70
D18	A	70

Code		See Page
D19	B	70
F12	A	67
F13	B	67
F14	C	67
F15	D	67
F17	A	71
F18	B	71
G1		67
H9		63
H10		63
J8	A	68
J9	B	68
J21	A	71
J22	B	71
J24	A	71
J25	B	71
J26		71
L2		68

Code		See Page
L5		71
L6		71
L7		71
O3		71
P10		72
R11	A	72
R12	B	72
R13	A	72
R14	B	72
S1		65
T14	A	69
	B	69
T15		69
T16		69
U1		69
W5	A	73
W6	B	73

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

○ : Junction Block and Wire Harness Connector

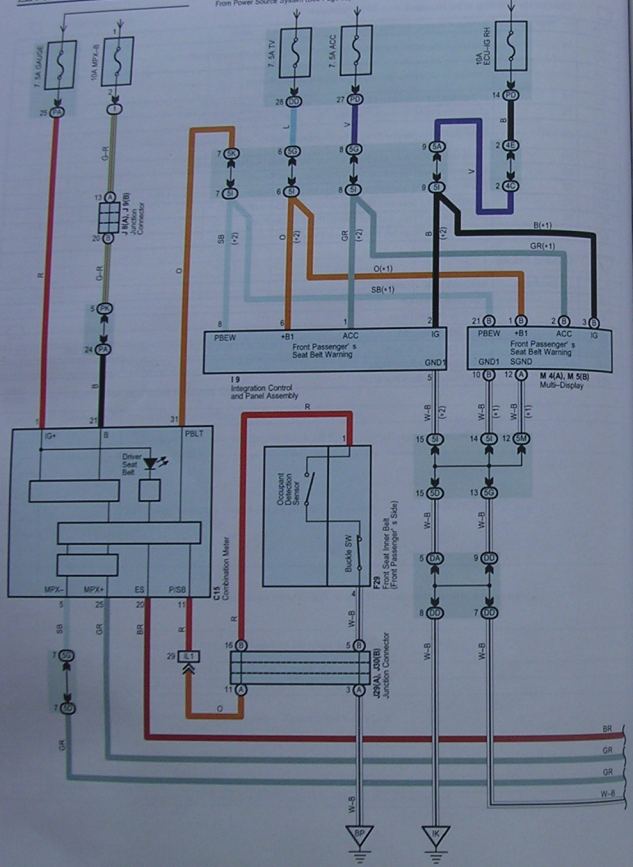
Code	See Page	Junction Block and Wire Harness (Connector Location)
2F	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
2G		
4B	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4C		
4D		
4E		
4F		
4I		
4K		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5C		
5D		
5G		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
DJ	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
DL	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
LA	54	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
LC	55	
LF		
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PJ	40	Floor Wire and Front Passenger's Side J/B (Cowl Side Right)
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)

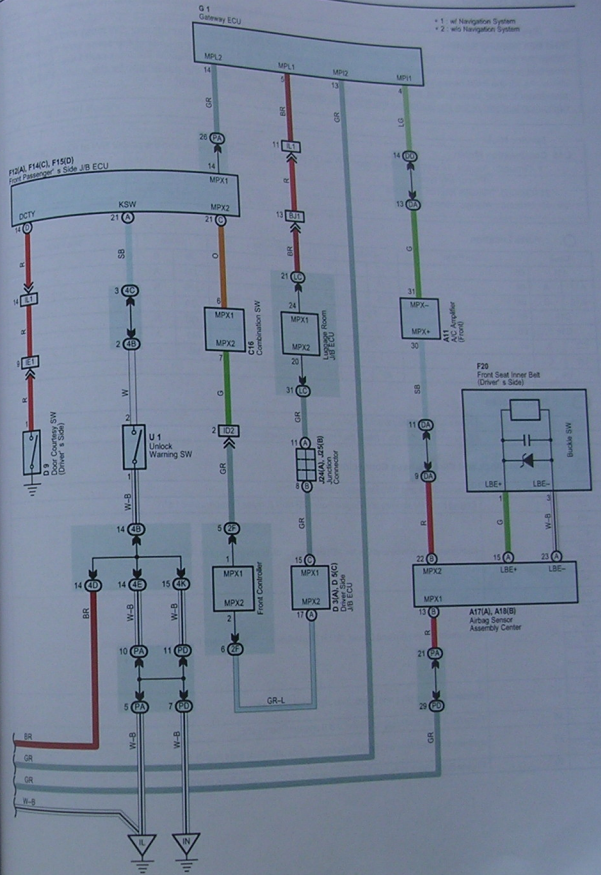
□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	78	Instrument Panel Wire and Roof Wire (Left Side of the Instrument Panel)
IA2		
IC1	78	Front Door LH Wire and Floor No.2 Wire (Left Kick Panel)
IC2		Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
ID2	78	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
IE1	78	Front Door RH Wire and Floor Wire (Right Kick Panel)
IH1	80	
IH2		Instrument Panel Wire and Engine Room Main Wire (Right Kick Panel)
II2	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
IL1	80	Front Door LH Wire and Front Door LH No.2 Wire (Inside of the Front Door LH)
BA1	82	Rear Door No.2 Wire and Floor No.2 Wire (Left Center Pillar)
BD1	82	Rear Door No.1 Wire and Floor Wire (Right Center Pillar)
BE1	82	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)
BJ1	84	

▽ : Ground Points

Code	See Page	Ground Points Location
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH
BO	82	Under the Driver's Seat
BP	82	Under the Front Passenger's Seat
BQ	82	Rear Floor Partition Panel LH


From Power Source System (See Page 92)
7.5A GAUGE
10A MPX-B
7.5A TV
7.5A ACC
10A ECU-IG RH
J4(AL) J4(B) Junction Connector
I 9
Integration Control and Panel Assembly
PBEW
+B1
ACC
IG
GND1
SGND
Front Passenger' s Seat Belt Warning
M 4(A), M 5(B)
Multi-Display
C15
Combination Meter
Driver Seat Belt
Occupant Detection Sensor
Buckle SW
F29
Front Seat Inner Belt (Front Passenger' s Side)
J2(AL) J3(B) Junction Connector
B(+1)
GR(+1)
O(+1)
SB(+1)
MPX-
MPX+
ES
PSB
PBLT
IG+
B
R
BR
GR
W-B
O
SB
G-R
L
V


G 1
Gateway ECU
* 1 : w/ Navigation System
* 2 : w/o Navigation System
MPL2
MPL1
MPI2
MPI1
F12(AL F14(C), F15(D)
Front Passenger' s Side J/B ECU
DCTY
KSW
MPX1
MPX2
C16
Combination SW
U 1
Unlock Warning SW
Door Courtesy SW (Driver' s Side)
D 2(AL) D 5(C) Driver Side J/B ECU
Front Controller
A11
A/C Amplifier (with)
F20
Front Seat Inner Belt (Driver' s Side)
Buckle SW
LBE+
LBE-
A17(A), A18(B)
Airbag Sensor Assembly Center
GR-L
BR
GR
W-B

座椅安全带警告

System Outline

Seat Belt Warning System

When the ignition SW is ON position (Ignition SW type) or the power SW is IG ON position (Power SW type) and the driver's seat belt is not used, the warning light on the combination meter blinks and the buzzer sounds at the same time to warn the driver. As for the front passenger's seat, only when the built–in occupant detection sensor in the front seat inner belt (Front passenger's side) detects that the front passenger is seated, the system warns the passenger by the multi–display (w/ navigation system) or the integration control and panel assembly (w/o navigation system).

Service Hints

C15 Combination Meter

1–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
21–Ground : Always approx. 12 volts
20, 40–Ground : Always continuity

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A11	66	F12 A	67	J9 B	68
A17 A	66	F14 C	67	J24 A	71
A18 B	66	F15 D	67	J25 B	71
C15	66	F20	71	J29 A	74
C16	66	F29	74	J30 B	74
D3 A	67	G1	67	M4 A	68
D5 C	67	I9	67	M5 B	68
D9	70	J8 A	68	U1	69

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2F	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
4B	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4C		
4D		
4E		
4K		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5D		
5G		
5I		
5K		
5M		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
LC	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)

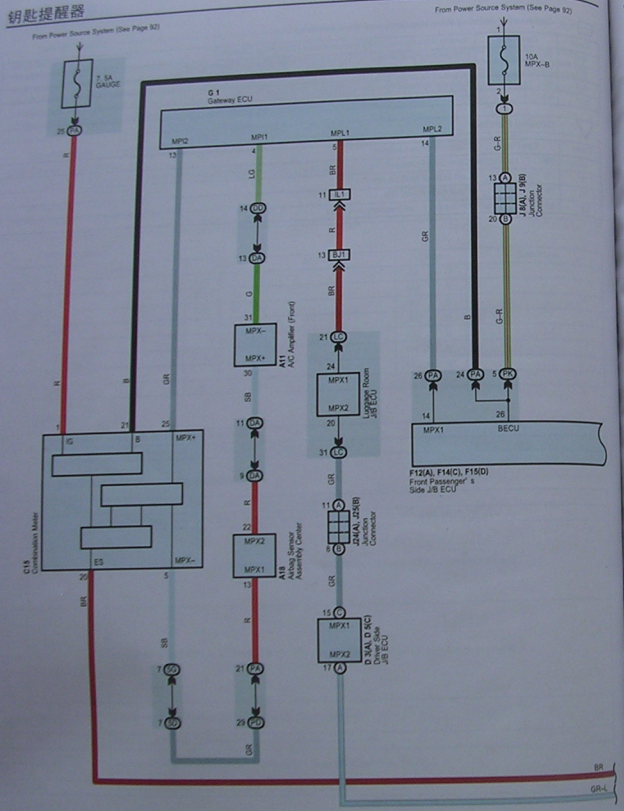
⬭ : Connector Joining Wire Harness and Wire Harness

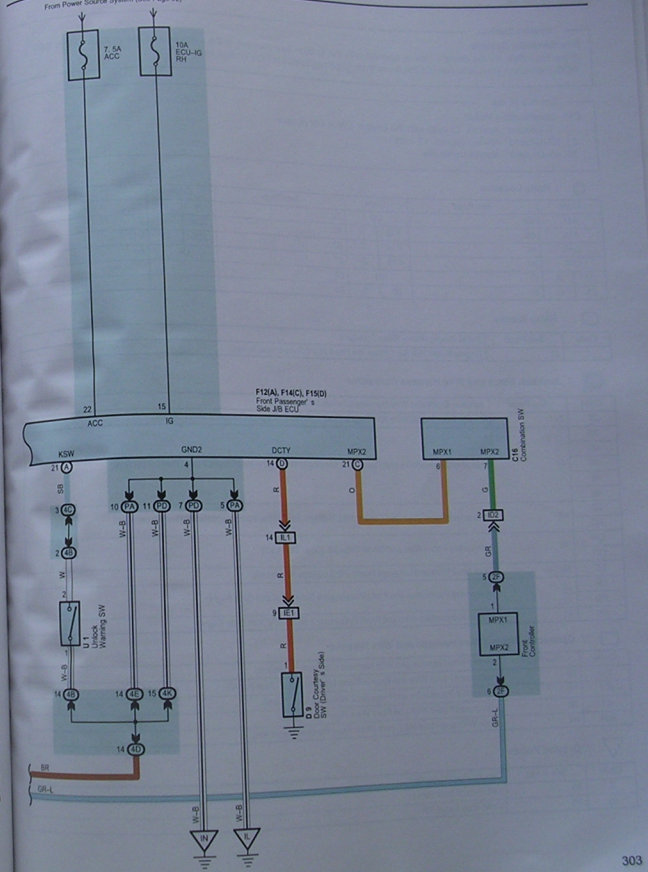
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IE1	78	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

▽ : Ground Points

Code	See Page	Ground Points Location
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH
BP	82	Under the Front Passenger's Seat

钥匙提醒器


From Power Source System (See Page 92)
7.5A GAUGE
G 1 Gateway ECU
MPI2
MPI1
MPL1
MPL2
From Power Source System (See Page 92)
10A MPX–B
J/B(J 2508) Junction Connector
A11 AC Amplifier (Front)
MPX–
MPX+
Luggage Room J/B ECU
MPX1
MPX2
BECU
F12(A), F14(C), F15(D) Front Passenger' s Side J/B ECU
C15 Combination Meter
IG
ES
A18 Airbag Sensor Assembly Center
D 3(A), D 4(C) Driver Side J/B ECU
BR
GR-L


From Power Source System (See Page 92)
7.5A ACC
10A ECU–IG RH
ACC
IG
F12(A), F14(C), F15(D) Front Passenger' s Side J/B ECU
KSW
GND2
DCTY
MPX2
C16 Combination SW
MPX1
MPX2
U1 Unlock Warning SW
D 3 Door Courtesy SW (Driver Side)
Front Door Lock Controller
BR
GR-L
W–B

钥匙提醒器

System Outline

Key Reminder System

If the front door on the driver's side is opened with the ignition key inserted in the cylinder and the ignition SW is OFF or ACC, the buzzer sounds to prevent the driver from forgetting to pull out the ignition key.

Service Hints

C15 Combination Meter

1–Ground : Approx. 12 volts with the ignition SW at ON position
21, 22–Ground : Always approx. 12 volts
20, 40–Ground : Always continuity

○ : Parts Location

Code		See Page
A11		66
A18		66
C15		66
C16		66
D3	A	67
D5	C	67
D9		70
F12	A	67
F14	C	67
F15	D	67
G1		67
J8	A	68
J9	B	68
J24	A	71
J25	B	71
U1		69

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2F	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
4B	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4C		
4D		
4E		
4K		
5D	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5G		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
LC	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)

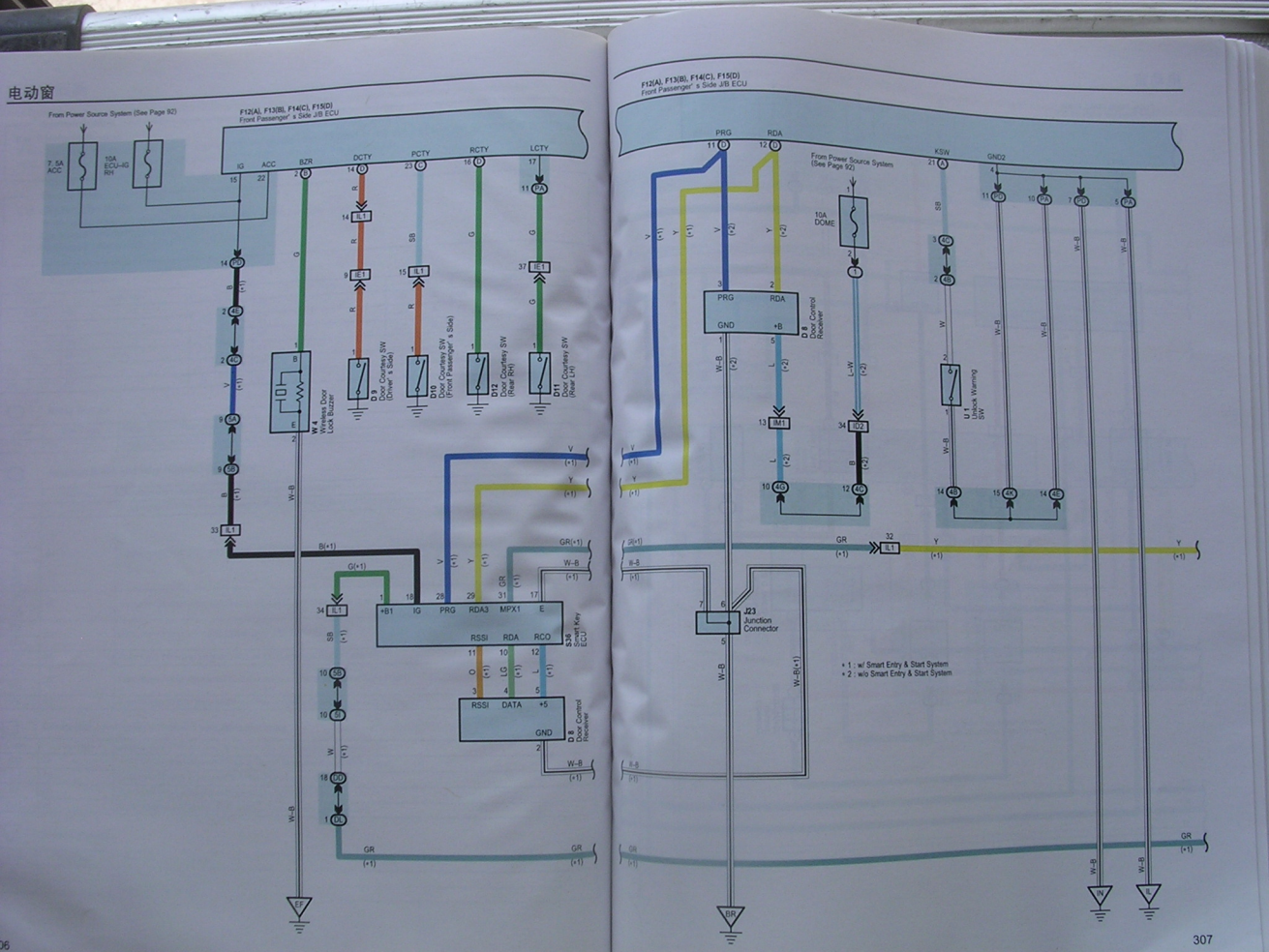
□ : Connector Joining Wire Harness and Wire Harness

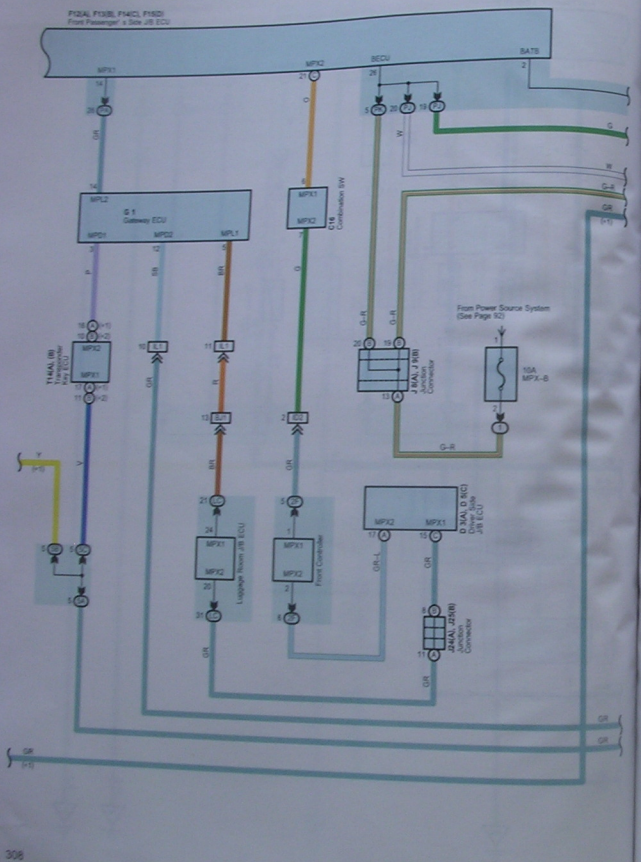
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IE1	78	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

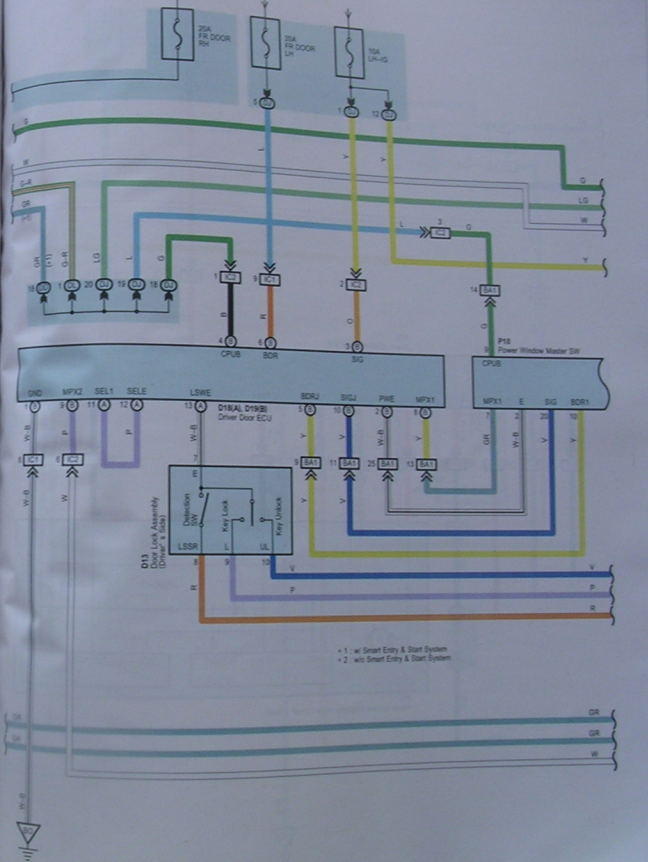
▽ : Ground Points

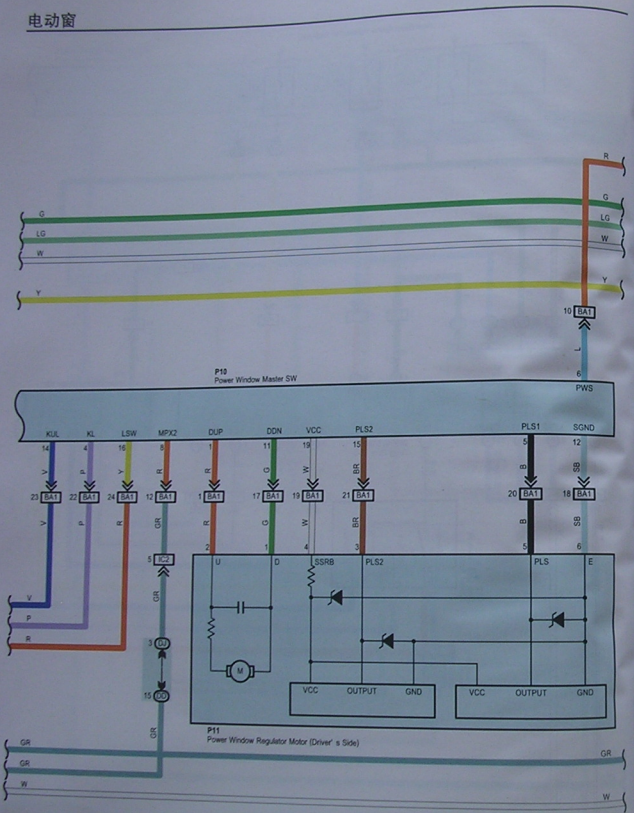
Code	See Page	Ground Points Location
IIL	78	Left Side of Shift Lever
IIN	78	Cowl Side Panel RH

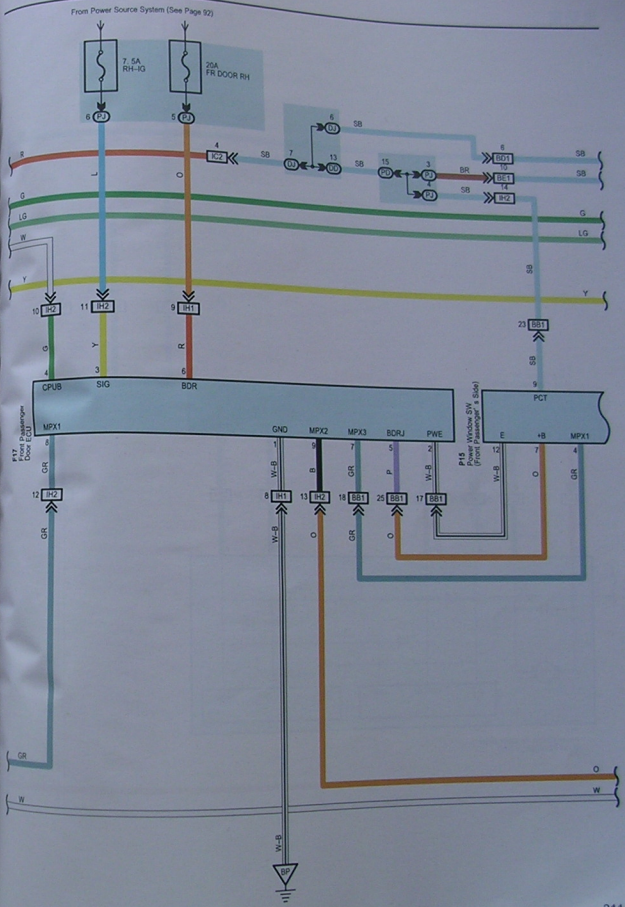
备忘

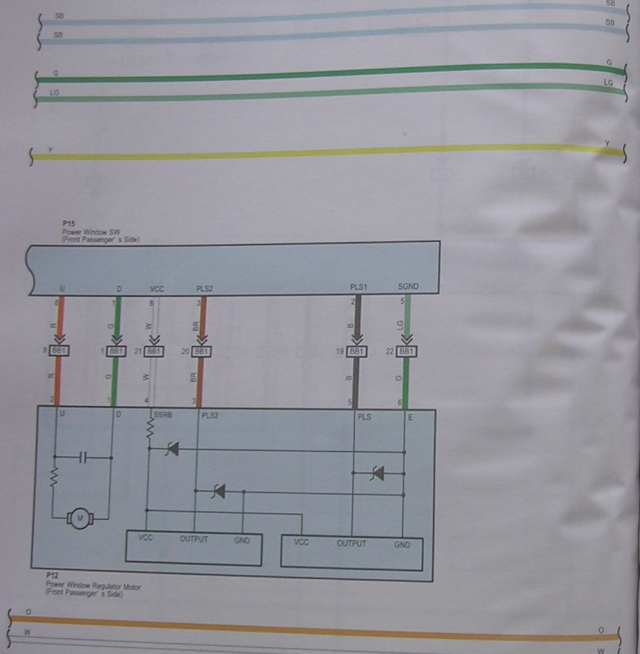

From Power Source System (See Page 92)
F12(A), F13(B), F14(C), F15(D)
Front Passenger' s Side J/B ECU
7.5A ACC
10A ECU-IG RH
IG
ACC
BZR
DCTY
PCTY
RCTY
LCTY
W-B
W-B(+1)
W-B(+2)
W-B(+3)
W-B(+4)
W-B(+5)
W-B(+6)
W-B(+7)
W-B(+8)
W-B(+9)
W-B(+10)
W-B(+11)
W-B(+12)
W-B(+13)
W-B(+14)
W-B(+15)
W-B(+16)
W-B(+17)
W-B(+18)
W-B(+19)
W-B(+20)
W-B(+21)
W-B(+22)
W-B(+23)
W-B(+24)
W-B(+25)
W-B(+26)
W-B(+27)
W-B(+28)
W-B(+29)
W-B(+30)
W-B(+31)
W-B(+32)
W-B(+33)
W-B(+34)
W-B(+35)
W-B(+36)
W-B(+37)
W-B(+38)
W-B(+39)
W-B(+40)

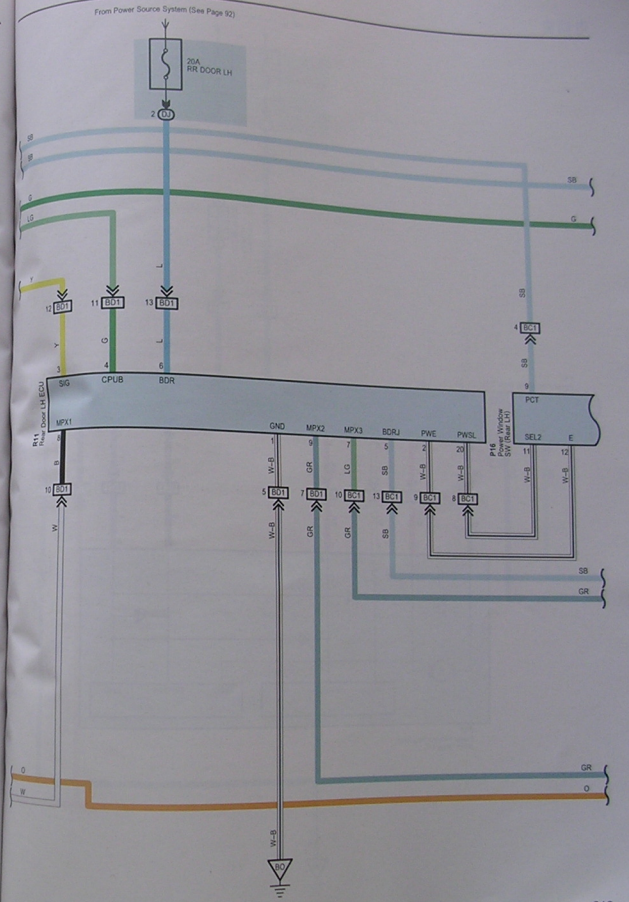

F12(AL F13(B), F14(C), F15(D)
Front Passenger's Side J/B ECU
MPX1
MPX2
BECU
BATS
G 1
Gateway ECU
MPD1
MPD2
MPL1
MPL2
C18
Combination SW
J 9(AL J 9(B))
Junction Connector
From Power Source System
(See Page 92)
10A
MPX-B
T14(AL (B))
Trunk Room
Key ECU
Luggage Room J/B ECU
Front Controller
D 3(AL D 6(C))
Driver Side
J/B ECU
J4(AL J5(B))
Junction
Connector

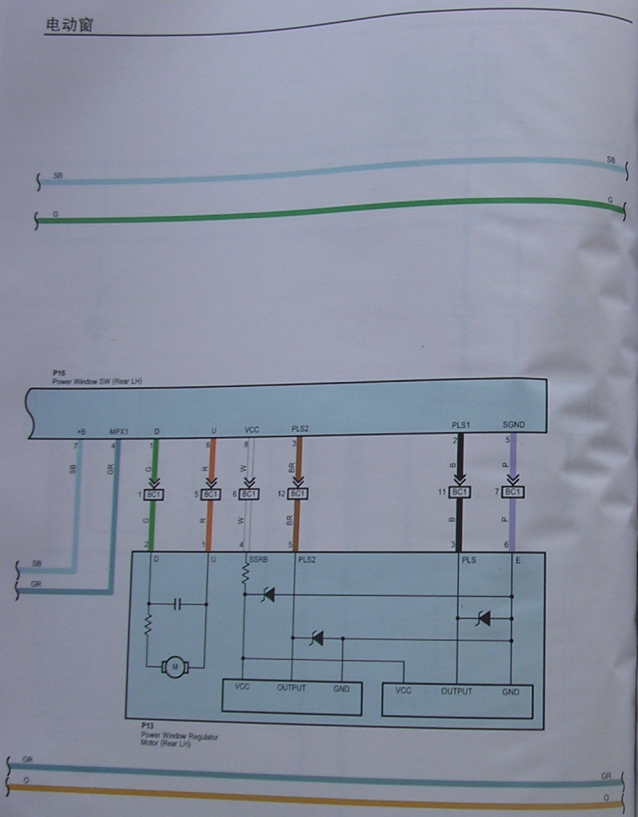

From Power Source System (See Page 92)
25A
FR DOOR
RH
25A
FR DOOR
LH
10A
LH-IG
CPUB
BDR
SIG
P18
Power Window Master SW
GND
MPX2
SEL1
SELE
LSWE
D18(AL D19(B))
Driver Door ECU
BDRJ
SIGJ
PWE
MPX1
Detection
SW
Key Lock
Key Unlock
LSSR
D13
Door Lock Assembly
(Driver's Side)
BDR1
E
* 1 : w/ Smart Entry & Start System
* 2 : w/o Smart Entry & Start System

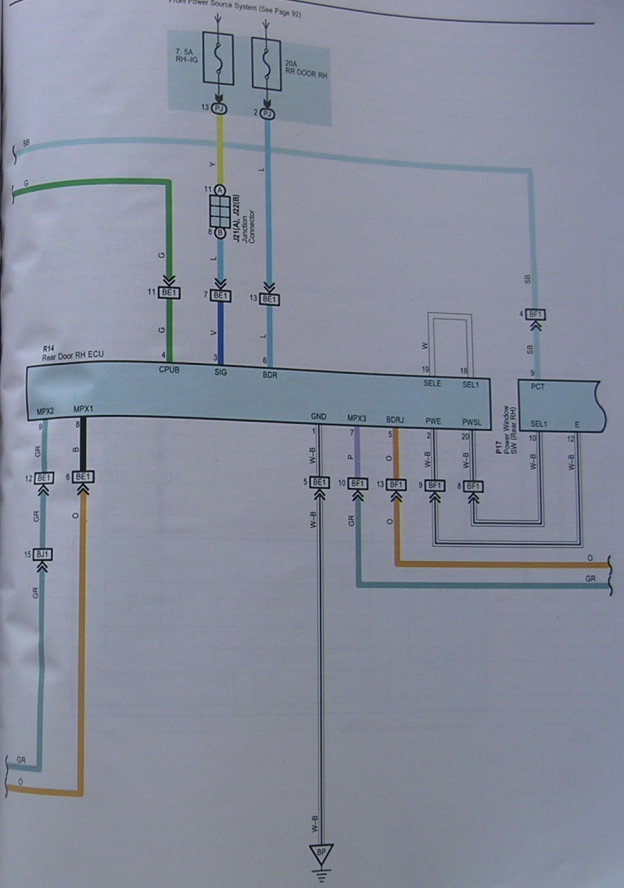

P10
Power Window Master SW
KUL
KL
LSW
MPX2
DUP
DDN
VCC
PLS2
PLS1
SGND
PWS
P11
Power Window Regulator Motor (Driver's Side)
U
D
SSRB
PLS2
PLS
E
VCC
OUTPUT
GND
VCC
OUTPUT
GND

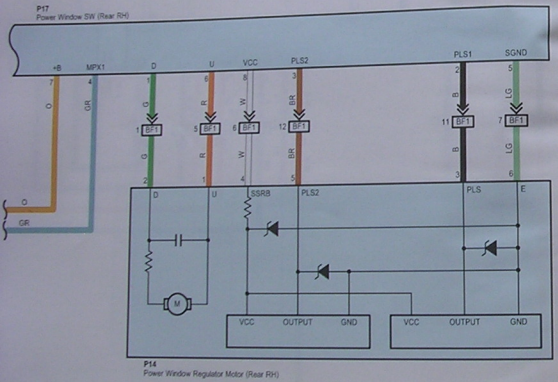

From Power Source System (See Page 92)
7 5A RH-IG
20A FR DOOR RH
P17
Front Passenger Door Switch
P15
Power Window SW (Front Passenger Side)
CPUB
SIG
BDR
MPX1
GND
MPX2
MPX3
BDRJ
PWE
PCT
E
+B
MPX1


P15
Power Window SW
(Front Passenger' s Side)
U
D
VCC
PLS2
PLS1
SGND
B51
B52
SSRB
PLS
E
M
VCC
OUTPUT
GND
P12
Power Window Regulator Motor
(Front Passenger' s Side)


From Power Source System (See Page 92)
20A
RR DOOR LH
2 DA1
B51
SIG
CPUB
BDR
R11
Power Outlet LH ECU
MPX1
GND
MPX2
MPX3
BDRJ
PWE
PWSL
P14
Power Window
SW (Rear LH)
PCT
SEL2
E
B52
SB
GR
LG
W-B
O
W


SB
G
P16
Power Window SW (Rear LH)
+S
MPX1
D
U
VCC
PLS2
PLS1
SGND
BC1
D
U
SSRB
PLS2
PLS
E
VCC
OUTPUT
GND
VCC
OUTPUT
GND
P13
Power Window Regulator Motor (Rear LH)
GR
O


From Power Source System (See Page 92)
7.5A RH-IG
20A RR DOOR RH
J21(A), J22(B)
Junction Connector
R14
Rear Door RH ECU
CPUB
SIG
BDR
SELE
SEL1
PCT
MPX2
MPX1
GND
MPX3
BDRJ
PWE
PWSL
SEL1
E
P17
Power Window SW (Rear RH)
BE1
BF1
BJT
BP
SB
G
GR
O
W-B



System Outline

In the power window system, the respective door ECU controls the power window motor according to the signals from the power window control SW. The power window master SW controls the driver's side motor, the front passenger side and rear seat power window motors through multiplex communication.

Service Hints

D19 (B) Driver Door ECU

(B) 4, (B) 6–Ground : Always approx. 12 volts
(B) 3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
(B) 1–Ground : Always continuity

F17 Front Passenger Door ECU

4, 6–Ground : Always approx. 12 volts
3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
1–Ground : Always continuity

R11 Rear Door LH ECU

4, 6–Ground : Always approx. 12 volts
3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
1–Ground : Always continuity

R14 Rear Door RH ECU

4, 6–Ground : Always approx. 12 volts
3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
1–Ground : Always continuity

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
C16	66	F14 C	67	P12	72
D3 A	67	F15 D	67	P13	72
D5 C	67	F17	71	P14	72
D8	70	G1	67	P15	72
D9	70	J8 A	68	P16	72
D10	70	J9 B	68	P17	72
D11	70	J21 A	71	R11	72
D12	70	J22 B	71	R14	72
D13	70	J23	71	S36	73
D18 A	70	J24 A	71	T14 A	69
D19 B	70	J25 B	71	T14 B	69
F12 A	67	P10	72	U1	69
F13 B	67	P11	72	W4	65

▢ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

○ : Junction Block and Wire Harness Connector

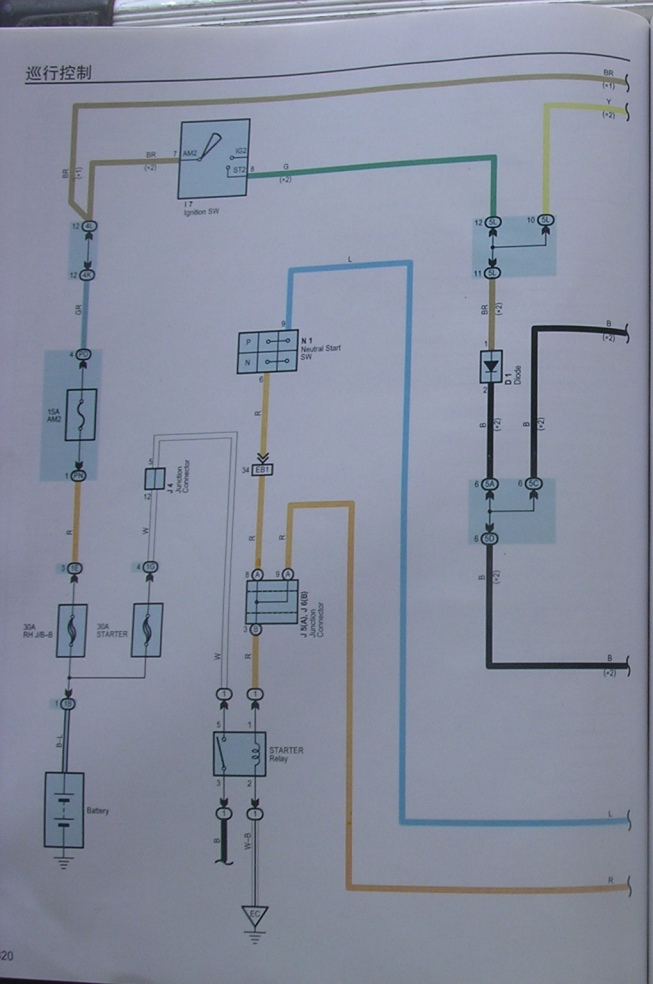
Code	See Page	Junction Block and Wire Harness (Connector Location)
2F	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
4B	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4C		
4E		
4G		
4K		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5B		
5C		
5I		
DD	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DJ	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
DL	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
LC	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PJ	40	Floor Wire and Front Passenger's Side J/B (Cowl Side Right)
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)

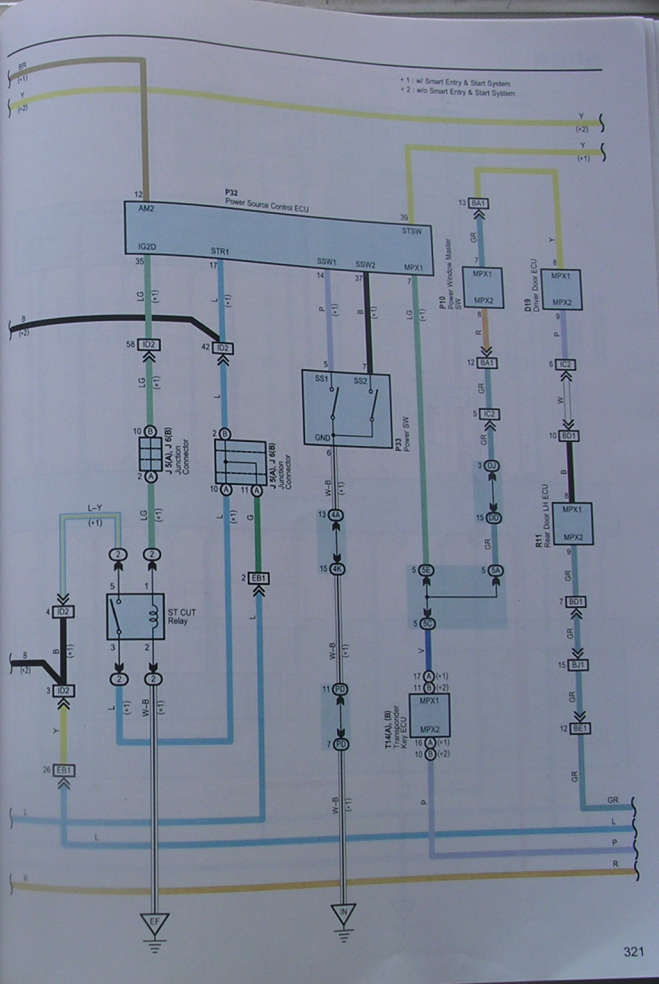
□ : Connector Joining Wire Harness and Wire Harness

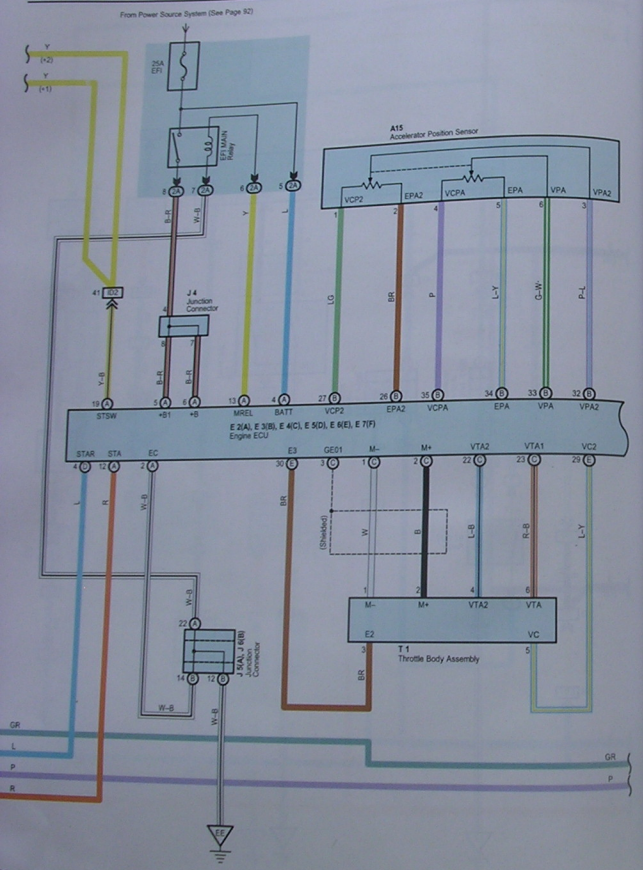
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC1	78	Front Door LH Wire and Floor No.2 Wire (Left Kick Panel)
IC2		
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IE1	78	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
IH1	80	Front Door RH Wire and Floor Wire (Right Kick Panel)
IH2		
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
IM1	80	Instrument Panel Wire and Floor No.2 Wire (Under the Rear Console)
BA1	82	Front Door LH Wire and Front Door LH No.2 Wire (Inside of the Front Door LH)
BB1	82	Front Door RH Wire and Front Door RH No.2 Wire (Inside of the Front Door RH)
BC1	82	Rear Door No.2 Wire and Rear Door LH Wire (Inside of the Rear Door LH)
BD1	82	Rear Door No.2 Wire and Floor No.2 Wire (Left Center Pillar)
BE1	82	Rear Door No.1 Wire and Floor Wire (Right Center Pillar)
BF1	82	Rear Door No.1 Wire and Rear Door RH Wire (Inside of the Rear Door RH)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

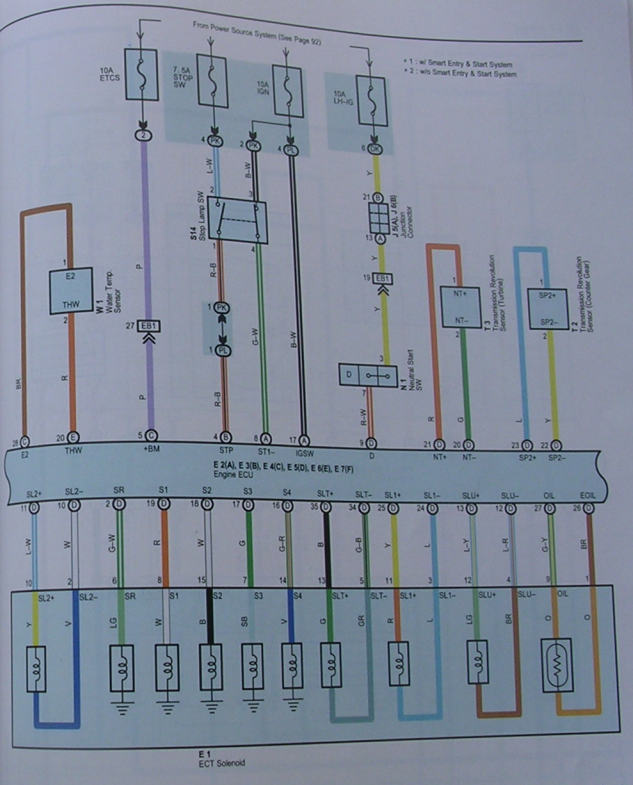
▽ : Ground Points

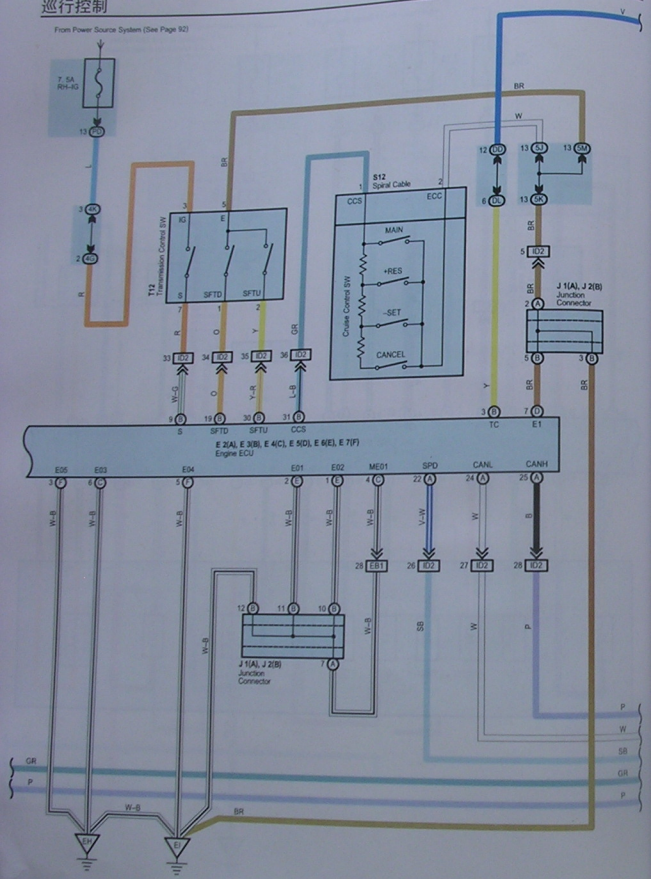
Code	See Page	Ground Points Location
EF	76	Rear Side of the Front Left Fender Apron
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH
BO	82	Under the Driver's Seat
BP	82	Under the Front Passenger's Seat
BR	82	Rear Floor Partition Panel RH

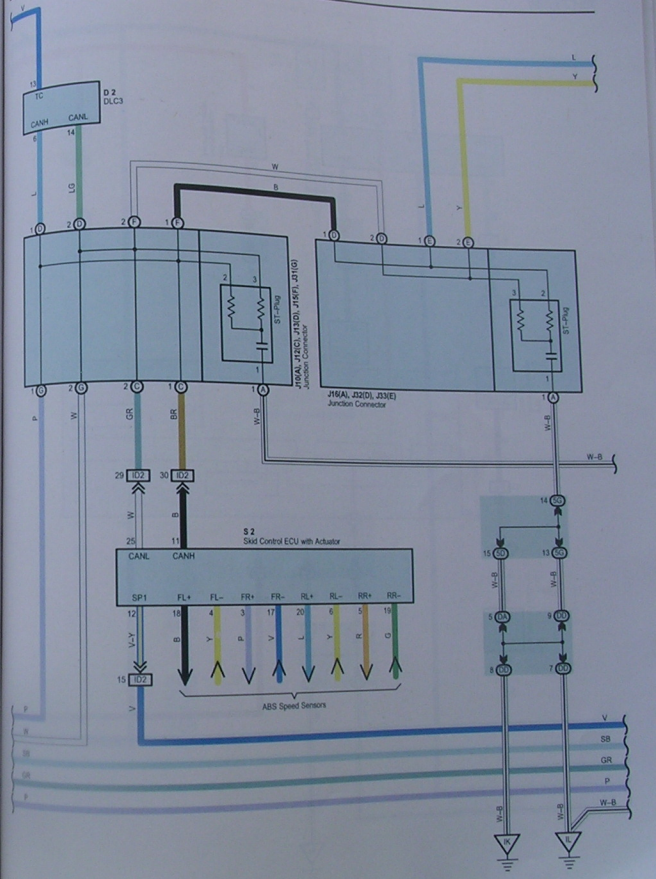

I 7
Ignition SW
AM2
IG2
ST2
N 1
Neutral Start SW
D 1
Diode
15A AM2
30A RH J/B-B
30A STARTER
J 4
Junction Connector
J 5(A), J 6(B)
Junction Connector
STARTER Relay
Battery
E2
BR (+1)
BR (+2)
Y (+2)
G (+2)
L
B (+2)
R
W-B
GR
W
B-L

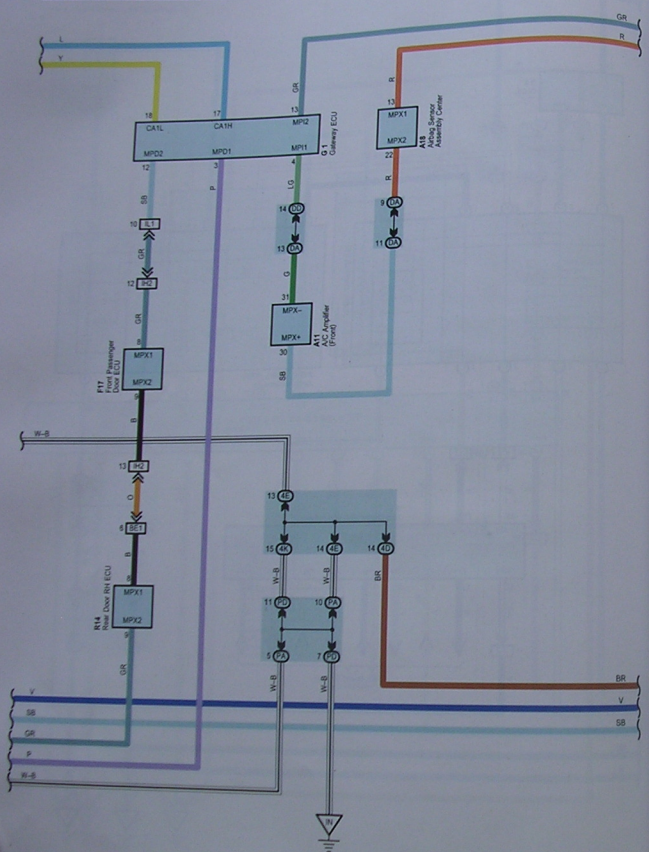

* 1 : w/ Smart Entry & Start System
* 2 : w/o Smart Entry & Start System
P32
Power Source Control ECU
AM2
IG2D
STR1
SSW1
SSW2
STSW
MPX1
P33
Power SW
SS1
SS2
GND
P19
Power Window Master SW
D19
Driver Door ECU
R11
Rear Door LH ECU
T14(A), (B)
Transponder Key ECU
ST CUT Relay
J 5(A), J 6(B)
Junction Connector
E6
E8
E7
E2
BR (+1)
BR (+2)
Y (+2)
Y (+1)
L-Y (+1)
LG (+1)
L (+1)
P (+1)
B (+2)
W-B (+1)
GR
L
P
R

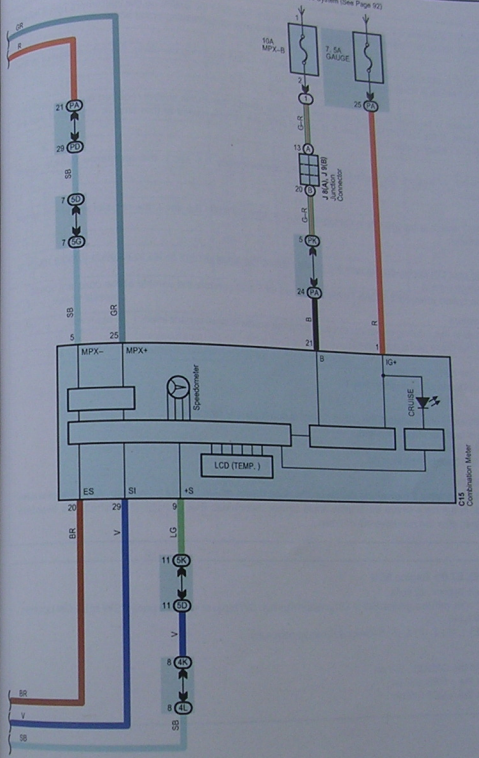

From Power Source System (See Page 92)
25A EFI
EFI MAIN Relay
A15
Accelerator Position Sensor
VCP2
EPA2
VCPA
EPA
VPA
VPA2
J 4
Junction Connector
STSW
+B1
+B
MREL
BATT
VCP2
EPA2
VCPA
EPA
VPA
VPA2
E 2(A), E 3(B), E 4(C), E 5(D), E 6(E), E 7(F)
Engine ECU
STAR
STA
EC
E3
GE01
M-
M+
VTA2
VTA1
VC2
(Shielded)
M-
M+
VTA2
VTA
E2
VC
T 1
Throttle Body Assembly
J 5(A), J 6(B)
Junction Connector
E6
GR
L
P
R


From Power Source System (See Page 92)
10A ETCS
7. 5A STOP SW
10A IGN
10A LH-IG
* 1 : w/ Smart Entry & Start System
* 2 : w/o Smart Entry & Start System
S14
Stop Lamp SW
J 4(A), J 4(B)
Junction Connector
W1
Water Temp. Sensor
N1
Neutral Start SW
T 3
Transmission Revolution Sensor (Turbine)
T 2
Transmission Revolution Sensor (Counter Gear)
THW
+BM
STP
ST1-
IGSW
D
NT+
NT-
SP2+
SP2-
E 2(A), E 3(B), E 4(C), E 5(D), E 6(E), E 7(F)
Engine ECU
SL2+
SL2-
SR
S1
S2
S3
S4
SLT+
SLT-
SL1+
SL1-
SLU+
SLU-
OIL
EOIL
E 1
ECT Solenoid
GR
P


From Power Source System (See Page 92)
7.5A
RH-IG
13 EA5
L
3 IG1
2 IE1
R
T12
Transmission Control SW
IG
E
S
SFTD
SFTU
7
1
2
R
O
Y
GR
L-B
33 ID2
34 ID2
35 ID2
36 ID2
W-G
O
Y-R
L-B
8 B
19 B
30 B
31 B
S
SFTD
SFTU
CCS
S12
Spiral Cable
CCS
ECC
Cruise Control SW
MAIN
+RES
-SET
CANCEL
12 ID2
13 SJ
13 SM
6 BR
13 SK
BR
W
V
BR
5 ID2
J 1(A), J 2(B)
Junction
Connector
2 A
5 B
3 B
BR
BR
Y
3 D
7 D
TC
E1
E 2(A), E 3(B), E 4(C), E 5(D), E 6(E), E 7(F)
Engine ECU
E05
E03
E04
E01
E02
ME01
SPD
CANL
CANH
3 F
6 C
5 F
2 E
1 E
4 C
22 A
24 A
25 A
W-B
W-B
W-B
W-B
W-B
W-B
V-W
W
B
28 EB1
26 ID2
27 ID2
28 ID2
12 C
11 D
10 C
7 A
J 1(A), J 2(B)
Junction
Connector
SB
W
P
P
W
SB
GR
P
GR
P
W-B
W-B
BR
E5
E6


V
13 TC
D 2
DLC3
CANH
CANL
6
14
L
LG
W
B
L
Y
2 D
2 F
1 E
1 D
2 D
2 E
1 E
1 C
J16(A), J32(D), J34(E)
Junction Connector
2
3
1
ST=Plug
J16(A), J32(D), J34(D), J34(F), J51(G)
Junction Connector
2
3
1
ST=Plug
P
W
GR
BR
W-B
W-B
29 ID2
30 ID2
W
B
25
11
S 2
Skid Control ECU with Actuator
CANL
CANH
SP1
FL+
FL-
FR+
FR-
RL+
RL-
RR+
RR-
12
18
4
3
17
20
6
5
19
L-Y
B
Y
P
V
L
Y
R
G
15 ID2
ABS Speed Sensors
14 SG
15 SG
13 SG
5 GA
9 GB
8 GA
7 GB
W-B
W-B
W-B
W-B
V
SB
GR
P
W-B
W-B
P
W
SB
GR
P
E4
E7


CA1L
CA1H
MPD2
MPD1
MPI2
MPI1
G1
Gateway ECU
MPX1
MPX2
A16
Airbag Sensor Assembly Center
MPX–
MPX+
A17
A/C Amplifier (Front)
F17
Front Passenger Door ECU
R14
Rear Door RH ECU
GR
R
L
V
SB
G
LG
W–B
BR
P
O


From Power Source System (See Page 92)
10A
MPX–B
7. 5A
GAUGE
J/A-LH
Junction Connector
MPX–
MPX+
Speedometer
LCD (TEMP.)
CRUISE
IG+
ES
SI
+S
C15
Combination Meter
GR
R
SB
BR
V
LG

巡行控制

System Outline

The cruise control system is a constant vehicle speed controller in which control of the switch on the instrument panel makes it possible to automatically adjust the opening of the engine throttle valve without depressing of the accel. pedal.

1. **Set Control**
When the SET/COAST SW is operated with the cruise control main SW turned on during travelling, the vehicle speed at that time is registered and the vehicle is controlled at constant speed.

2. **Coast Control**
When the SET/COAST switch is kept ON during driving with the cruise control, the cruise control required opening gets zero to reduce the vehicle speed. If the SET/COAST switch is turned OFF, the vehicle speed at that time is registered and the vehicle is controlled at the constant speed.

3. **Tap Up Control**
Whenever RES/ACC switch is tapped ON instantaneously (For approximately 0.5 sec.), the registered vehicle speed increases by about 1.6 km/h.

Down Control
SET/COAST switch is tapped ON instantaneously (For approximately 0.5 sec.), the registered vehicle speed

the cruise control, the accel control tends to rotation throttle motor to

urned OFF and controls the vehicle at the constant speed.

the cruise control is cancelled.

rol is automatically cancelled.

travels on the slope during cruise control travelling. After the overdrive ottle angle sensor determines that upslope is finished, the overdrive timer.

ON position (Ignition SW type) or with the power SW at IG ON position

round : Always continuity

L SW on
e + RES SW on
e – SET SW on

○ : Parts Location

Code	See Page	Code		See Page	Code	See Page
A11	66	J1	A	64	P10	72
A15	66	J2	B	64	P32	68
A18	66	J3		64	P33	68
C15	66	J4		64	R11	72
D1	67	J5	A	64	R14	72
D2	67	J6	B	64	S2	65
D19	70	J8	A	68	S12	69
E1	63	J9	B	68	S14	69
E2	A 63	J10	A	58, 68	T1	65
E3	B 63	J12	C	58, 68	T2	65
E4	C 63	J13	D	58, 68	T3	65
E5	D 63	J15	F	58, 68	T12	69
E6	E 63	J16	A	60, 68	T14	A 69
E7	F 63	J31	G	58, 68		B 69
F17	71	J32	D	60, 68	W1	65
G1	67	J33	E	60, 68		
I7	67	N1		64		

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)
2	26	Engine Room R/B No.2 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	23	Engine Room Main Wire and Engine Room J/B No.1 (Near the Front Right Suspention Tower)
1E		
1G		
2A	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
4A	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4D		
4E		
4G		
4K		
4L		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5C		
5D		
5E		
5G		
5J		
5K		
5L		
5M		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
DJ	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
DK	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
DL		
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)
PL		
PN		

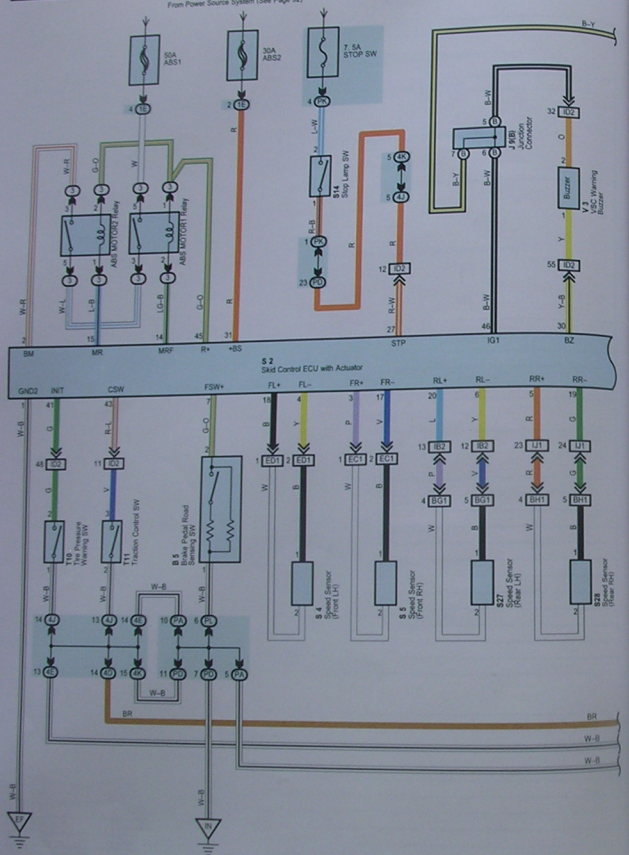
: Connector Joining Wire Harness and Wire Harness

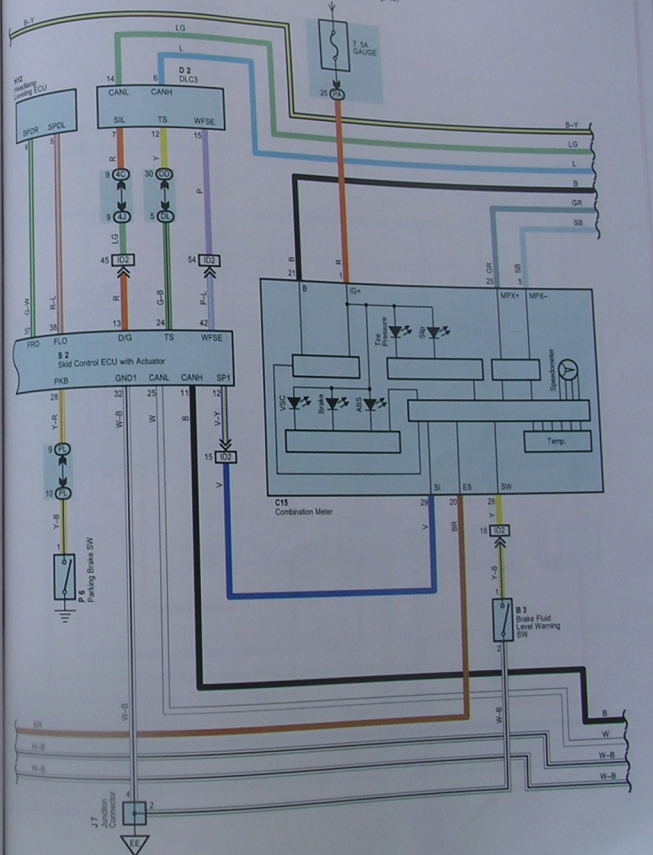
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	76	Engine Room Main Wire and Engine Wire (Inside of the ECU Box)
IC2	78	Front Door LH Wire and Floor No.2 Wire (Left Kick Panel)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IH2	80	Front Door RH Wire and Floor Wire (Right Kick Panel)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BA1	82	Front Door LH Wire and Front Door LH No.2 Wire (Inside of the Front Door LH)
BD1	82	Rear Door No.2 Wire and Floor No.2 Wire (Left Center Pillar)
BE1	82	Rear Door No.1 Wire and Floor Wire (Rear Center Pillar)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

: Ground Points

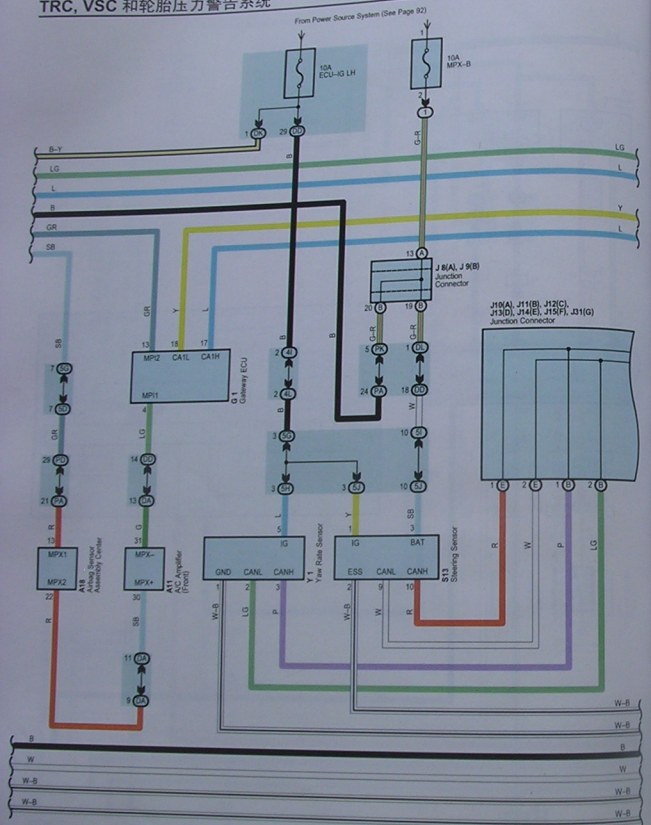
Code	See Page	Ground Points Location
EC	76	Rear Side of the Front Right Fender Apron
EE		
EF		Rear Side of the Front Left Fender Apron
EH	76	Right Side of Cylinder Head
EI	76	Left Side of Cylinder Head
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH

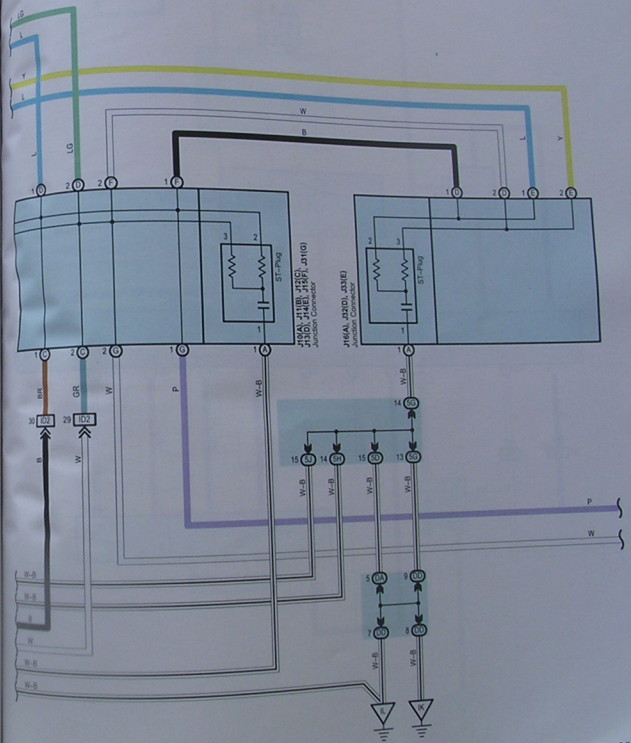
TRC, VSC 和轮胎压力警告系统

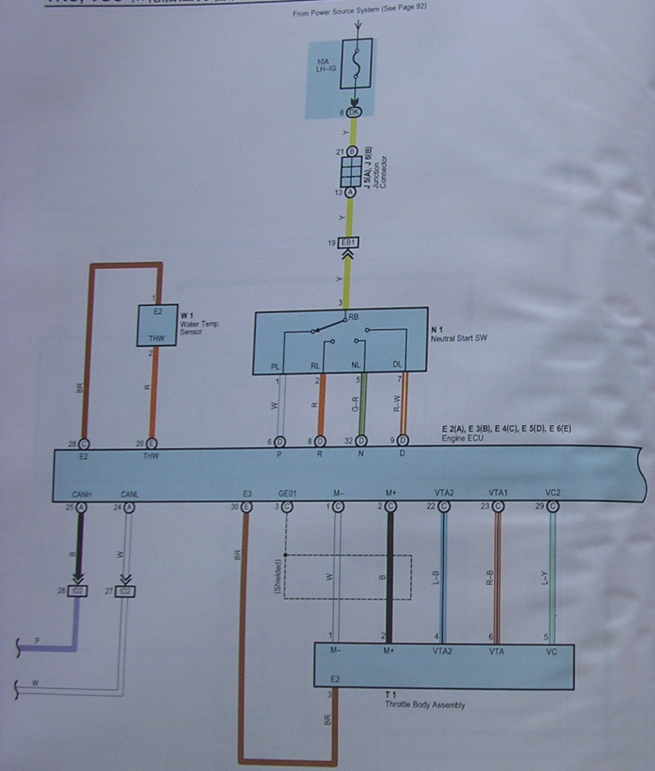


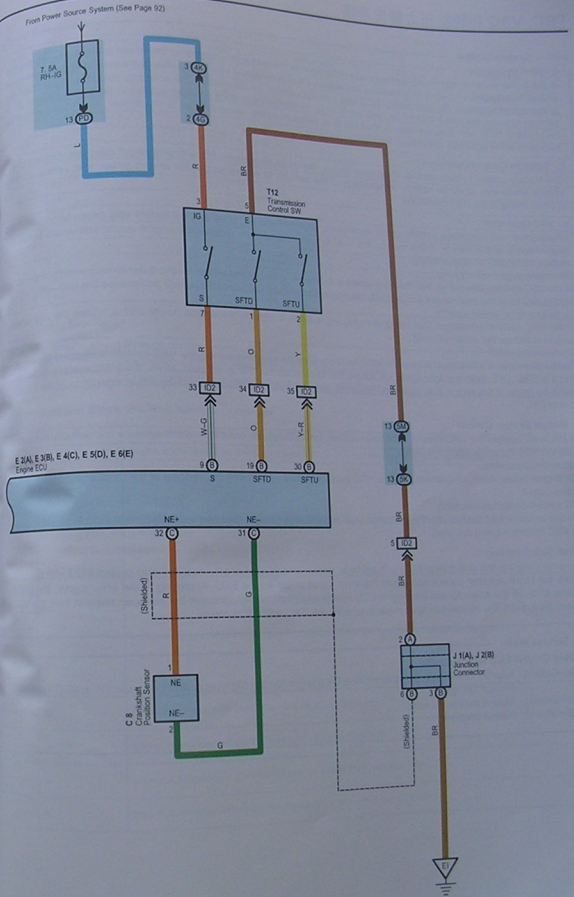


TRC, VSC 和轮胎压力警告系统






From Power Source System (See Page 92)
10A
LH-IG
6
DK
Y
21
17
J 5(A), J 6(B)
Junction
Connector
Y
19
EB1
Y
3
RB
N 1
Neutral Start SW
PL
RL
NL
DL
1
2
5
7
W
R
G-R
R-W
E2
W 1
Water Temp.
Sensor
THW
2
1
BR
R
28
26
E2
THW
6
8
32
9
P
R
N
D
E 2(A), E 3(B), E 4(C), E 5(D), E 6(E)
Engine ECU
CANH
CANL
E3
GE01
M-
M+
VTA2
VTA1
VC2
25
24
30
3
1
2
22
23
29
IB
W
BR
W
B
L-B
R-B
L-Y
(Shielded)
28
27
IB2
IB2
P
W
1
2
4
6
5
M-
M+
VTA2
VTA
VC
E2
3
BR
T 1
Throttle Body Assembly


From Power Source System (See Page 92)
7.5A
RH-IG
13
PSD
L
3
AM1
2
AM2
R
BR
T12
Transmission
Control SW
5
IG
E
S
SFTD
SFTU
7
1
2
R
O
Y
33
34
35
IB2
IB2
IB2
W-G
O
Y-R
E 2(A), E 3(B), E 4(C), E 5(D), E 6(E)
Engine ECU
9
19
30
S
SFTD
SFTU
NE+
NE-
32
31
(Shielded)
R
G
1
NE
NE-
2
C 8
Crankshaft
Position Sensor
G
15
DM
13
DK
BR
5
IB2
BR
2
3
J 1(A), J 2(B)
Junction
Connector
(Shielded)
BR
E7

TRC, VSC 和轮胎压力警告系统

System Outline

1. ABS Operation

If the brake pedal is depressed suddenly, the ABS controls the hydraulic pressure of the wheel cylinders for all the four wheels to automatically avoid wheel locking and ensure the directional and steering stability of the vehicle. If the brake pedal is depressed suddenly, the skid control ECU with actuator controls the solenoids in the actuators using the signals from the sensors to move the brake fluid to the reservoir in order to release the braking pressure applied to the wheel cylinder. If the skid control ECU with actuator detects that the fluid pressure in the wheel cylinder is insufficient, the ECU controls the solenoids in the actuators to increase the braking pressure.

2. Traction Control Operation

The traction control system controls the engine torque, the hydraulic pressure of the driving wheel cylinders, slipping of the wheels which may occur at start or acceleration of the vehicle, to ensure an optimal driving power and vehicle stability corresponding to the road conditions.

3. VSC Operation

Unexpected road conditions, vehicle speed, emergency situation, and any other external factors may cause large under– or over–steering of the vehicle. If this occurs, the VSC system automatically controls the engine power and wheel brakes to reduce the under– or over–steering.

To reduce large over–steering :

If the VSC system determines that the over–steering is large, it activates the brakes for the outer turning wheels depending on the degree of the over–steering to produce the moment toward the outside of the vehicle and reduce the over–steering.

To reduce large under–steering :

If the VSC system determines that the under–steering is large, it controls the engine power and activates the rear wheel brakes to reduce the under–steering.

Traction control SW

The traction control SW is used to stop the VSC function. After the engine is started, the VSC system is stopped (turned off) and the TRC OFF indicator light lights up. When the traction control SW is pressed again, the VSC system enters the stand–by mode. If the engine is stopped and restarted, the VSC system enters the stand–by mode regardless of the traction control SW.

4. Mutual System Control

To efficiently operate the VSC system at its optimal level, the VSC system and other control systems are mutually controlled while the VSC system is being operated.

Engine throttle control

The engine power does not interfere with the VSC brake control by controlling the opening of the throttle and reducing the engine output.

VSC system operation indication

The slip indicator light flashes and the buzzer sounds intermittently to warn the driver that the current road is slippery, while the VSC system is being operated.

5. Fail Safe Function

If an error occurs in the skid control ECU with actuator, sensor signals, and/or actuators, the skid control ECU with actuator inhibits the brake actuator control and inputs the error signal to the engine ECU. According to the error signal, the brake actuator turns off the solenoid and the engine ECU rejects any electronically controlled throttle open request from the VSC system. As a result, the vehicle functions regardless of the BA, TRC and VSC systems.

Service Hints

S2 Skid Control ECU with Actuator

46–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

31–Ground : Always approx. 12 volts

1, 32–Ground : Always continuity

: Parts Location

Code	See Page	Code		See Page	Code	See Page
A11	66	J5	A	64	P6	68
A18	66	J6	B	64	S2	65
B3	62	J7		64	S4	65
B5	66	J8	A	68	S5	65
C8	62	J9	B	68	S13	69
C15	66	J10	A	58, 68	S14	69
D2	67	J11	B	58, 68	S27	73
E2 A	63	J12	C	58, 68	S28	73
E3 B	63	J13	D	58, 68	T1	65
E4 C	63	J14	E	58, 68	T10	69
E5 D	63	J15	F	58, 68	T11	69
E6 E	63	J16	A	60, 68	T12	69
G1	67	J31	G	58, 68	V3	69
H12	67	J32	D	60, 68	W1	65
J1 A	64	J33	E	60, 68	Y1	69
J2 B	64	N1		64		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)
3	31	Engine Room R/B No.3 (Near the Front Left Suspention Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	23	Engine Room Main Wire and Engine Room J/B No.1 (Near the Front Right Suspention Tower)
4C	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4D		
4E		
4G		
4I		
4J		
4K		
5D	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5G		
5H		
5I		
5J		
5K		
5M		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
DK	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
DL		
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)
PL		

□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	76	Engine Room Main Wire and Engine Wire (Inside of the ECU Box)
EC1	76	Skid Control Sensor Wire and Engine Room Main Wire (Engine Compartment Right)
ED1	76	Skid Control Sensor Wire and Engine Room Main Wire (Engine Compartment Left)
IB2	78	Engine Room Main Wire and Floor No.2 Wire (Left Cowl Side Panel)
ID2	78	Engine Room Main Wire and Floor Wire (Left Kick Panel)
IJ1	80	Instrument Panel Wire and Engine Room Main Wire (Right Kick Panel)
BG1	84	Engine Room Main Wire and Floor Wire No.2 Wire (Wheel House Rear LH)
BH1	84	Skid Control Sensor Wire and Floor Wire (Wheel House Rear RH)

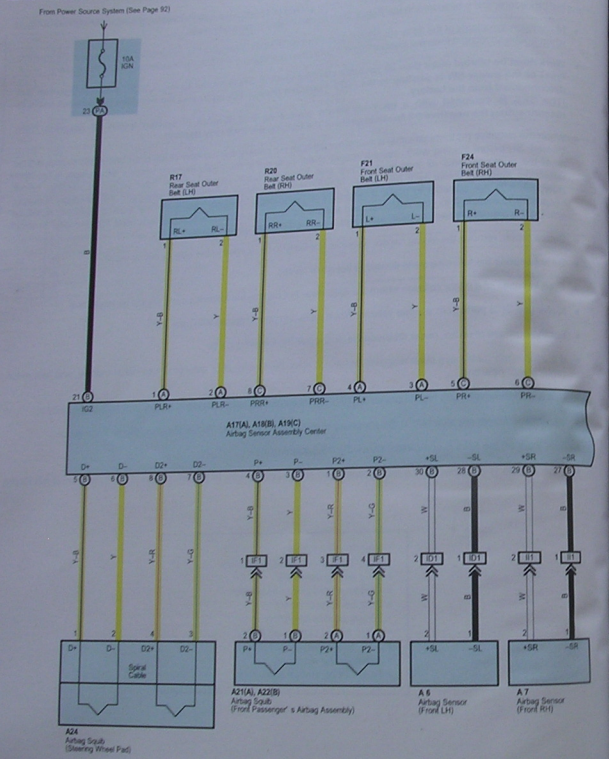
▽ : Ground Points

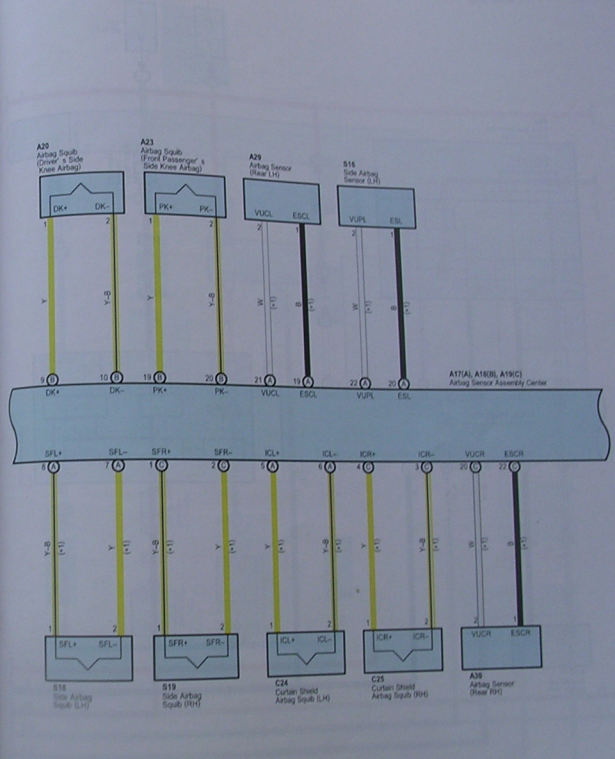
Code	See Page	Ground Points Location
EE	76	Rear Side of the Front Left Fender Apron
EF		
EI	76	Left Side of Cylinder Head
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH

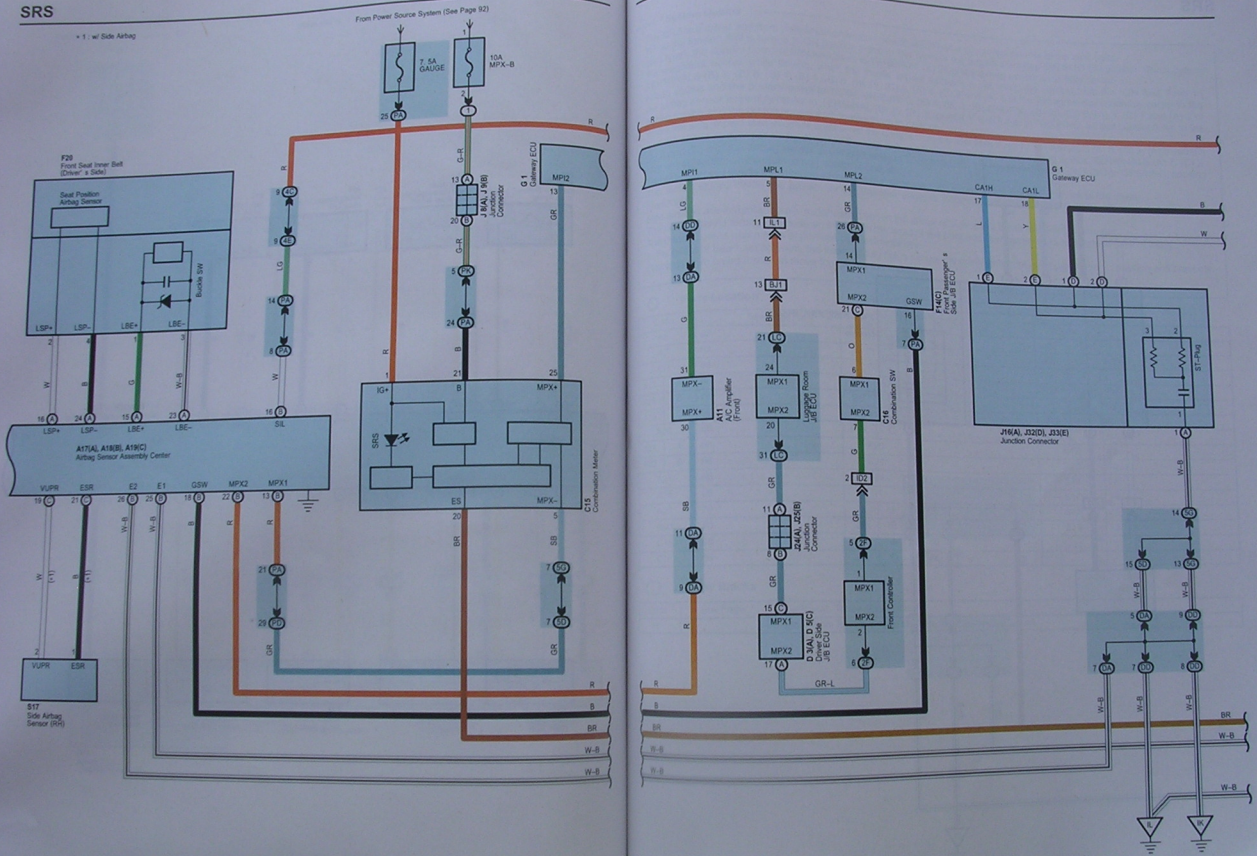
NOTICE: When inspecting or repairing the SRS, perform service in accordance with the following precautionary instructions and the procedure, and precautions in the Repair Manual applicable for the model year.

- Malfunction symptoms of the SRS are difficult to confirm, so the DTCs become the most important source of information when troubleshooting. When troubleshooting the SRS, always inspect the DTCs before disconnecting the battery.
- **Work must be started more than 90 seconds after the ignition SW is turned to the "LOCK" position (Ignition SW type) or the power SW is pushed to the "OFF" position (Power SW type) and the negative (–) terminal cable is disconnected from the battery.**
  (The SRS is equipped with a back–up power source so that if work is started within 90 seconds from disconnecting the negative (–) terminal cable of the battery, the SRS may deploy.)
- When the negative (–) terminal cable is disconnected from the battery, the memory of the clock and audio system will be cleared. So before starting work, make a record of the contents in the audio memory system. When work is finished, reset the audio systems as they were before and adjust the clock. Some vehicles have power tilt steering, power telescopic steering, power seat and power outside rear view mirror which are all equipped with memory function. However, it is not possible to make a record of these memory contents. So when the work is finished, it will be necessary to explain it to your customer, and ask the customer to adjust the features and reset the memory. To avoid erasing the memory in each system, never use a back–up power supply from outside the vehicle.
- Before repair, remove the airbag sensor if shocks are likely to be applied to the sensor during repair.
- Do not expose the following parts directly to hot air or flame;
- Even in cases of a minor collision where the SRS does not deploy, the following parts should be inspected;
- Never use SRS parts from another vehicle. When replacing parts, replace with new parts.
- For the purpose of reuse, never disassemble and repair the following parts.
- If the following parts have been dropped, or have cracks, dents and other defects in their case, bracket, and connector, replace with new one.
- Use a volt/ohmmeter with high impedance (10 kΩ/V minimum) for troubleshooting electrical circuits of the system.
- Information labels are attached to the periphery of the SRS components. Follow the instructions of the notice.
- After work on the SRS is completed, check the SRS warning light.
- If the vehicle is equipped with a mobile communication system, refer to the precaution in the IN section of the Repair Manual.

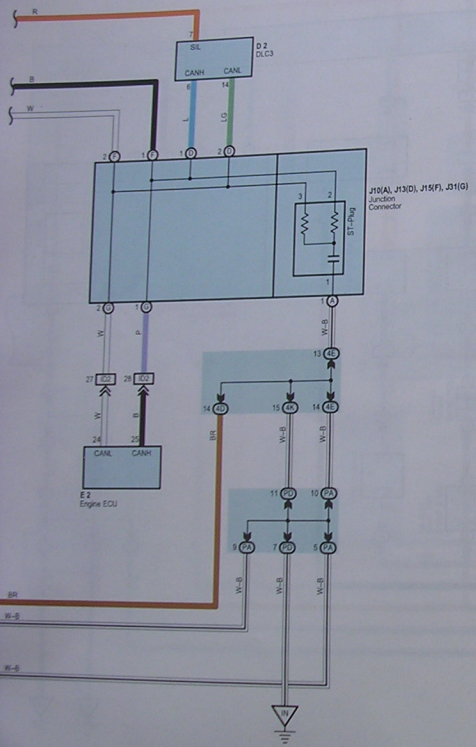
- Steering wheel pad
- Front passenger airbag assembly
- Side airbag assembly
- Curtain shield airbag assembly
- Seat belt pretensioner
- Airbag sensor assembly
- Front airbag sensor assembly
- Side airbag sensor assembly
- Knee airbag assembly
- Rear airbag sensor assembly


From Power Source System (See Page 92)
10A IGN
23 (1A)
R17 Rear Seat Outer Belt (LH)
RL+ RL-
R20 Rear Seat Outer Belt (RH)
RR+ RR-
F21 Front Seat Outer Belt (LH)
L+ L-
F24 Front Seat Outer Belt (RH)
R+ R-
IG2
A11(A), A18(B), A19(C) Airbag Sensor Assembly Center
PLR+ PLR- PRR+ PRR- PL+ PL- PR+ PR-
D+ D- D2+ D2- P+ P- P2+ P2- +SL -SL +SR -SR
Spiral Cable
A21(A), A22(B) Airbag Sculb (Front Passenger' s Airbag Assembly)
A 6 Airbag Sensor (Front LH)
A 7 Airbag Sensor (Front RH)
A24 Airbag Sculb (Steering Wheel Pad)


* 1 : w/ Side Airbag
A20 Airbag Sculb (Driver' s Side Knee Airbag)
A23 Airbag Sculb (Front Passenger' s Side Knee Airbag)
A29 Airbag Sensor (Rear LH)
S16 Side Airbag Sensor (LH)
DK+ DK- PK+ PK- VUCL ESCL VUPL ESL
A17(A), A18(B), A19(C) Airbag Sensor Assembly Center
SFL+ SFL- SFR+ SFR- ICL+ ICL- ICR+ ICR- VUCR ESCR
S18 Side Airbag Sculb (LH)
S19 Side Airbag Sculb (RH)
C24 Curtain Shield Airbag Sculb (LH)
C25 Curtain Shield Airbag Sculb (RH)
A38 Airbag Sensor (Rear RH)


* 1 : w/ Side Airbag
From Power Source System (See Page 92)
7.5A GAUGE
10A MPX-B
F20
Front Seat Inner Belt (Driver's Side)
Seat Position Airbag Sensor
Buckle SW
LSP+
LSP-
LBE+
LBE-
A17(A), A18(B), A19(C)
Airbag Sensor Assembly Center
VUPR
ESR
E2
E1
GSW
MPX2
MPX1
S17
Side Airbag Sensor (RR)
G1
Gateway ECU
MPI2
J/B(A), J/B(B) Junction Connector
IG+
SRS
ES
MPX+
MPX-
C15
Combination Meter
R
B
BR
W-B
G-R
GR
SB
SIL

G1
Gateway ECU
MPI1
MPL1
MPL2
CA1H
CA1L
P14(C)
Front Passenger's Side J/B ECU
J16(A), J32(D), J33(E)
Junction Connector
S1
Airbag
A11
A/C Amplifier (Front)
Luggage Room J/B (LRJ)
C16
Combination SW
Front Controller
D 3(A), D 5(C)
Driver Side J/B ECU
J24(A), J25(B)
Junction Connector
GR-L
W-B
BR



System Outline

The SRS is a driver and front passenger protection device which has a supplemental role to the seat belts.
When the ignition SW is turned to ON position (Ignition SW type) or the engine start/stop SW to IG ON position (Push button start type), the current from the IGN fuse flows to TERMINAL (B) 21 of the airbag sensor assembly center.
If an accident occurs while driving, when the frontal impact exceeds a set level, the current from the IGN fuse flows to TERMINALS (B) 5, (B) 8, (B) 4, (B) 1, (B) 9, (B) 19, (C) 5, (A) 4, (C) 8 and (A) 1 of the airbag sensor assembly center to the airbag squibs and the pretensioners to TERMINALS (B) 6, (B) 7, (B) 3, (B) 2, (B) 10, (B) 20, (C) 6, (A) 3, (C) 7 and (A) 2 of the airbag sensor assembly center to TERMINAL (B) 25, (B) 26 or BODY GROUND to GROUND, so that current flows to the airbag squibs and the pretensioners and causes them to operate.
When the side impact also exceeds a set level, the current from the IGN fuse flows to TERMINALS (A) 8, (C) 1, (A) 5 and (C) 4 of the airbag sensor assembly center to the side airbag squibs, the curtain shield airbag squibs TERMINALS (A) 7, (C) 2, (A) 6 and (C) 3 of the airbag sensor assembly center to TERMINAL (B) 25, (B) 26 or BODY GROUND to GROUND, causing side airbag squibs and curtain airbag squibs to operate.
The airbag stored inside the steering wheel pad is instantaneously expanded to soften the shock to the driver.
The airbag stored inside the passenger's instrument panel is instantaneously expanded to soften the shock to the front passenger.
Side airbags are instantaneously expanded to soften the shock of side to the driver and front passenger.
The curtain shield airbag can ease an impact on the head of the front and rear passengers and reduce risks of injury.
The pretensioners make sure of the seat belt restrainability.
In the event of head–on collision, the knee air bag helps secure the driver and front–seat passenger in position and prevents their legs from being forced to move forward by the impact.

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A6		62	C24		70	J15	F	58, 68
A7		62	C25		70	J16	A	60, 68
A11		66	D2		67	J24	A	71
A17	A	66	D3	A	67	J25	B	71
A18	B	66	D5	C	67	J31	G	58, 68
A19	C	66	E2		63	J32	D	60, 68
A20		66	F14	C	67	J33	E	60, 68
A21	A	66	F20		71	R17		72
A22	B	66	F21		71	R20		72
A23		66	F24		71	S16		73
A24		66	G1		67	S17		73
A29		70	J8	A	68	S18		73
A30		70	J9	B	68	S19		73
C15		66	J10	A	58, 68			
C16		66	J13	D	58, 68			

▢ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2F	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
4C	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4D		
4E		
4K		
5D	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5G		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
LC	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)

: Connector Joining Wire Harness and Wire Harness

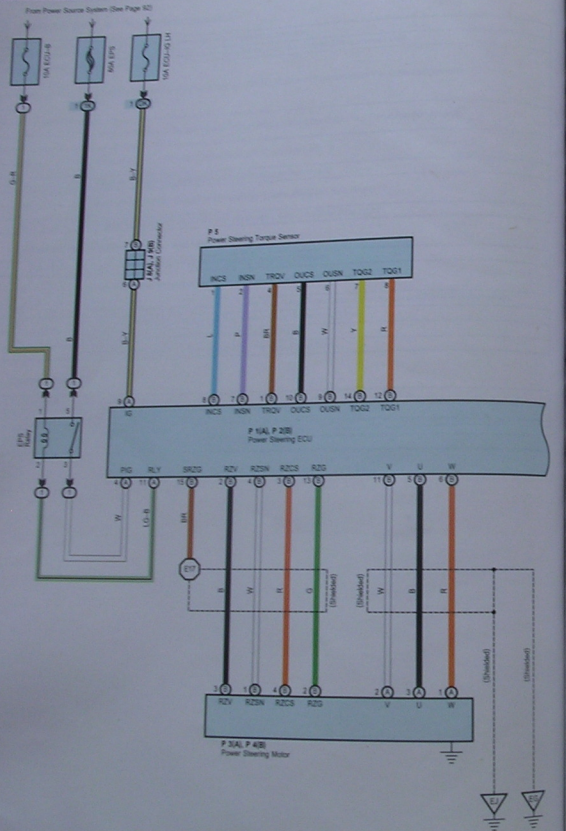
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID1	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
ID2		Instrument Panel Wire and Instrument Panel Wire Assy (Right Side of the Instrument Panel Rainforcement)
IF1	80	Instrument Panel Wire and Engine Room Main Wire (Right Kick Panel)
II1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
IL1	80	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)
BJ1	84	

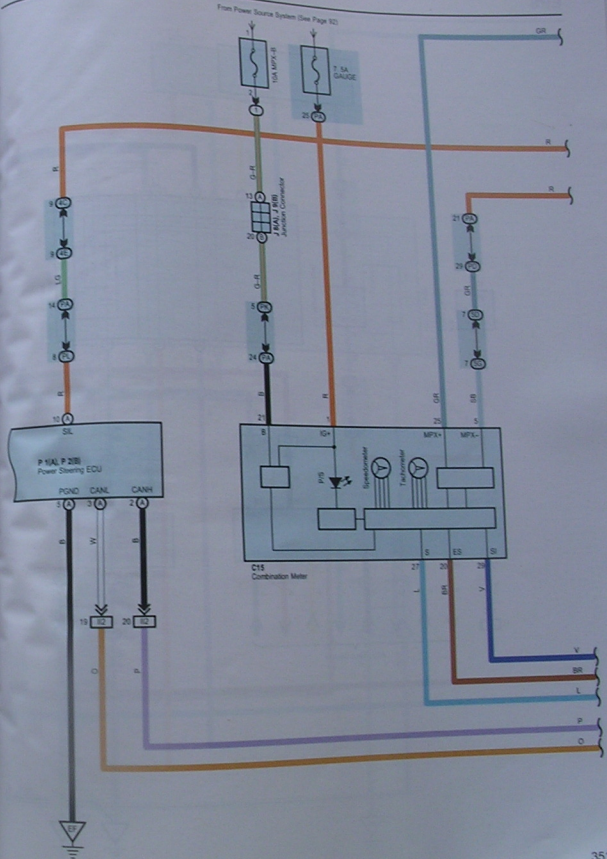
: Ground Points

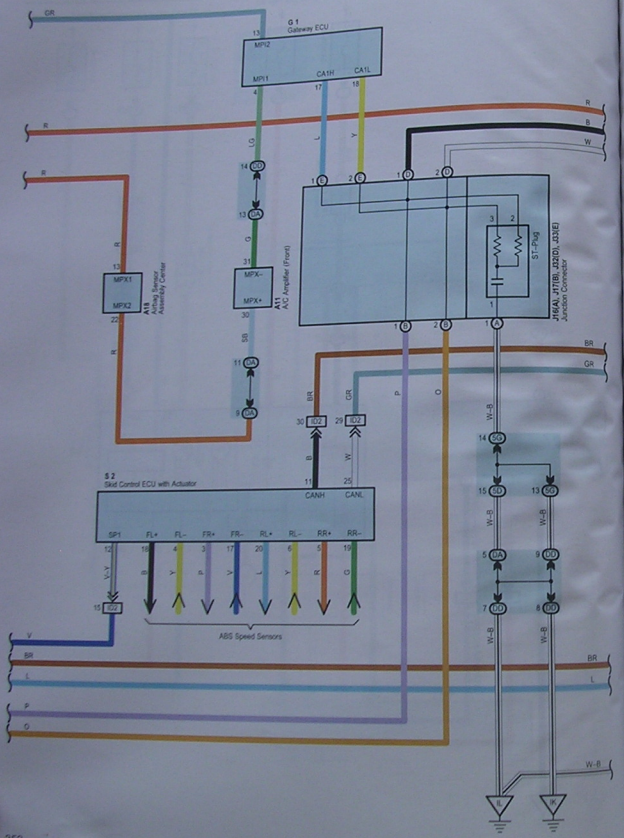
Code	See Page	Ground Points Location
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH

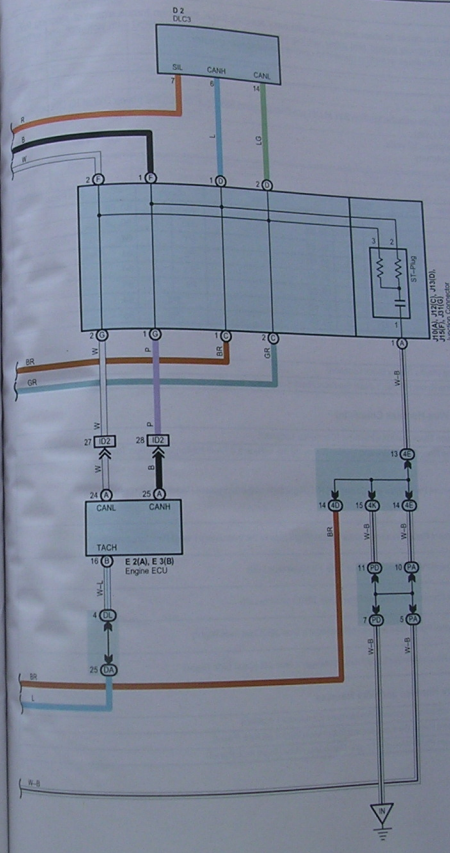
备忘

EPS


From Power Source System (See Page 92)
10A ECU-B
30A EPS
10A ECU-IG1
P 5
Power Steering Torque Sensor
INCS INSN TRQV OUCS OUSN TQG2 TQG1
EJ/B 1 (B)
Junction Connector
EPS Relay
P 1(AL P 2(B)
Power Steering ECU
PIG RLY SRZG RZV RZSN RZCS RZG V U W
ST
(Shielded)
P 3(AL P 4(B)
Power Steering Motor
RZV RZSN RZCS RZG V U W
E2


From Power Source System (See Page 92)
10A MPX-B
7.5A GAUGE
EJ/B 1 (B)
Junction Connector
SIL
P 1(AL P 2(B)
Power Steering ECU
PGND CANL CANH
IG+ MPX+ MPX-
Speedometer
Tachometer
FIS
C15
Combination Meter
E2


G 1
Gateway ECU
MPI2
MPI1
CA1H
CA1L
A11
ACC Amplifier (Front)
MPX-
MPX+
A18
Yaw Rate Sensor Assembly Center
MPX+
MPX2
J16(A), J17(B), J22(D), J33(E)
Junction Connector
ST-Plug
S 2
Skid Control ECU with Actuator
CANH
CANL
SP1
FL+
FL-
FR+
FR-
RL+
RL-
RR+
RR-
ABS Speed Sensors


D 2
DLC3
SIL
CANH
CANL
J16(A), J17(B), J18(D), J19(E), J15(C)
Junction Connector
ST-Plug
CANL
CANH
TACH
E 2(A), E 3(B)
Engine ECU

EPS

System Outline

This is a system to assist the driver to steer the vehicle with easy steering force. Based on torque signal of steering from steering torque sensor, and vehicle speed and other vehicle information from skid control ECU with actuator and engine ECU, power steering ECU calculates assisting current to control power steering motor.

Service Hints

P1 (A) Power Steering ECU

(A) 9–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

(A) 4–Ground : Always approx. 12 volts

(A) 5–Ground : Always continuity

: Parts Location

Code		See Page
A11		66
A18		66
C15		66
D2		67
E2	A	63
E3	B	63
G1		67
J8	A	68

Code		See Page
J9	B	68
J10	A	58, 68
J12	C	58, 68
J13	D	58, 68
J15	F	58, 68
J16	A	60, 68
J17	B	60, 68
J31	G	58, 68

Code		See Page
J32	D	60, 68
J33	E	60, 68
P1	A	64
P2	B	64
P3	A	64
P4	B	64
P5		64
S2		65

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1K	23	Engine Room Main Wire and Engine Room J/B No.1 (Near the Front Right Suspention Tower)
4C	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4D		
4E		
4K		
5D	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5G		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
DK	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
DL		
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)
PL		

: Connector Joining Wire Harness and Wire Harness

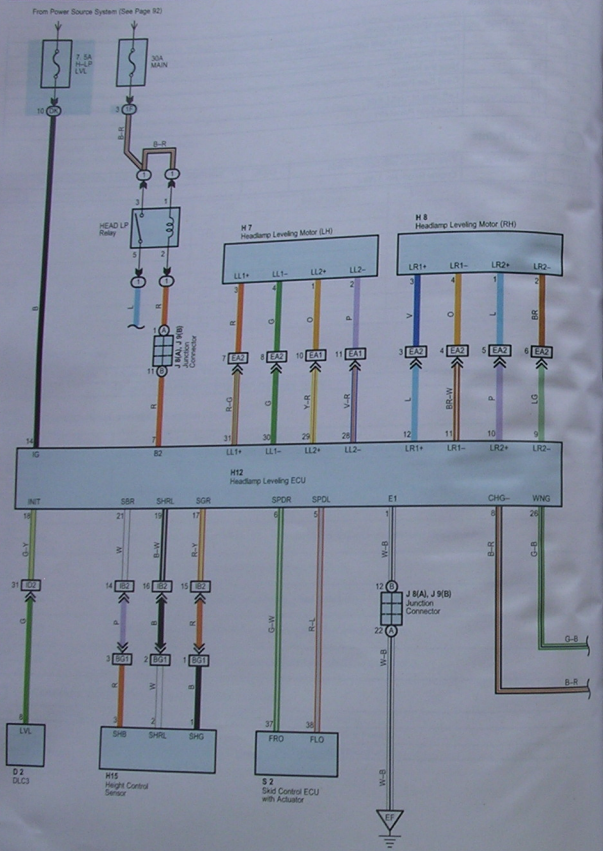
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
II2	80	Instrument Panel Wire and Engine Room Main Wire (Right Kick Panel)

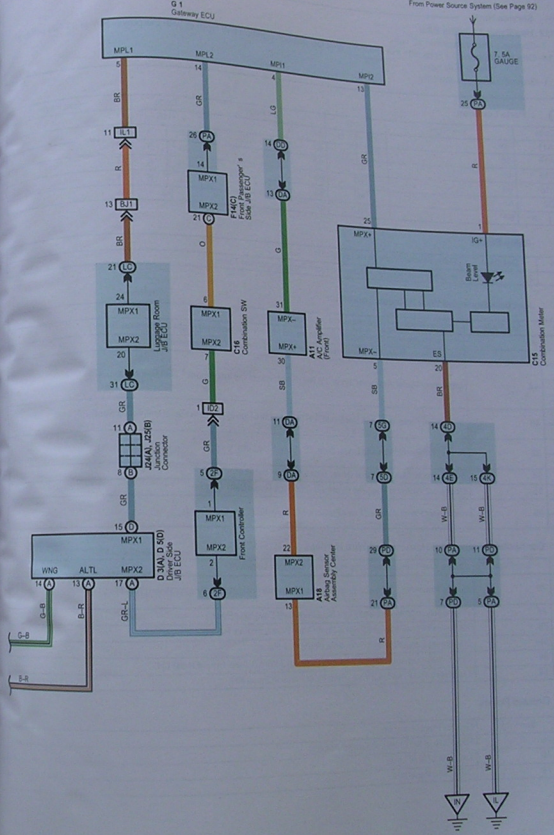
: Ground Points

Code	See Page	Ground Points Location
EF	76	Rear Side of the Front Left Fender Apron
EG	76	Gear Bracket RH
EJ	76	Near the Battery
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E17	76	Engine Room No.3 Wire			


From Power Source System (See Page 92)
7.5A
IG-LP
LVL
30A
MAIN
HEAD LP
Relay
H 7
Headlamp Leveling Motor (LH)
H 8
Headlamp Leveling Motor (RH)
LL1+
LL1–
LL2+
LL2–
LR1+
LR1–
LR2+
LR2–
J 8(A), J 9(B)
Junction
Connector
H12
Headlamp Leveling ECU
IG
B2
INT
SBR
SHRL
SGR
SPDR
SPDL
E1
CHG–
WNG
D 2
DLC3
H15
Height Control
Sensor
SHB
SHRL
SHG
S 2
Skid Control ECU
with Actuator
FRO
FLO


From Power Source System (See Page 92)
G 1
Gateway ECU
MPL1
MPL2
MPI1
MPI2
7.5A
GAUGE
FHC2
Front Passenger's
Side J/B ECU
Luggage Room
J/B ECU
C16
Combination SW
A11
A/C Amplifier
(Front)
C15
Combination Meter
Beam
Level
J 8(A), J 9(B)
Junction
Connector
D J9(A), D 5(B)
Driver Side
J/B ECU
Front Controller
A18
Airbag Sensor
Assembly Center

Service Hints

H12 Headlamp Leveling ECU

7–Ground : Always approx. 12 volts
14–Ground : Approx. 12 volts with the Ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
1–Ground : Always continuity

○ : Parts Location

Code		See Page
A11		66
A18		66
C15		66
C16		66
D2		67
D3	A	67
D5	D	67
F14	C	67
G1		67
H7		63
H8		63
H12		67
H15		71
J8	A	68
J9	B	68
J24	A	71
J25	B	71
S2		65

▭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

▭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	23	Engine Room Main Wire and Engine Room J/B No.1 (Near the Front Right Suspention Tower)
2F	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
4D 4E 4K	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
5D 5G	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
DA DD	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DK	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
LC	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
PA PD	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)

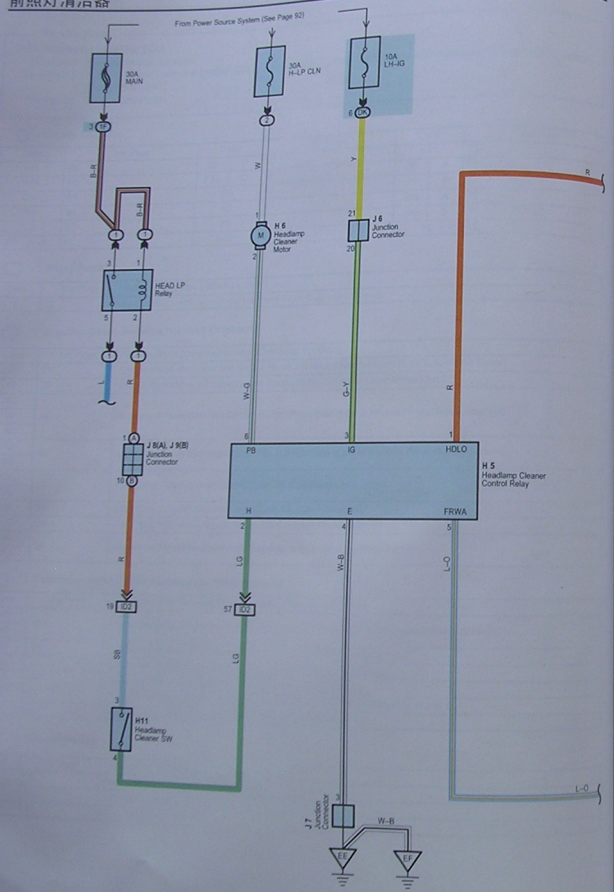
□ : Connector Joining Wire Harness and Wire Harness

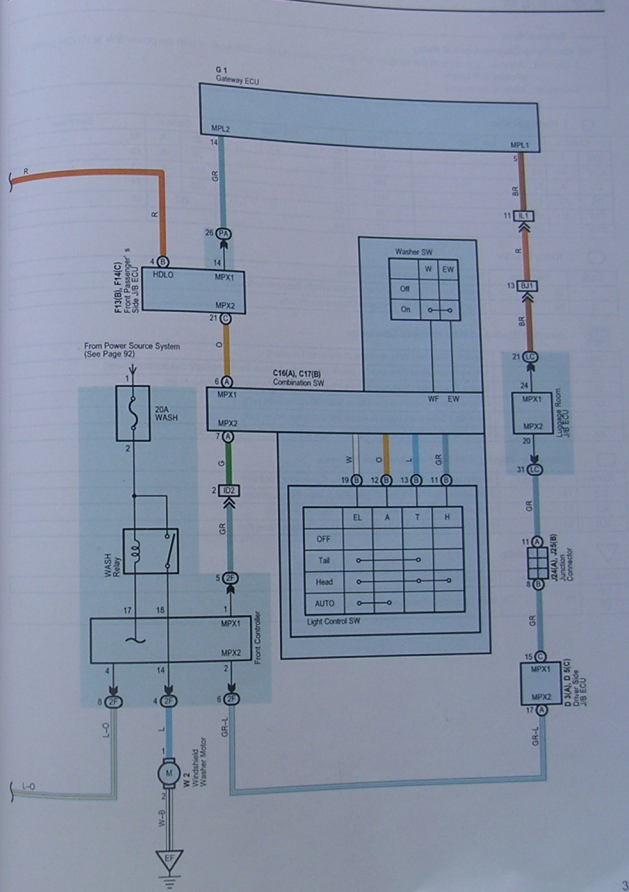
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1 EA2	76	Engine Room No.2 Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.2)
IB2	78	Engine Room Main Wire and Floor No.2 Wire (Left Cowl Side Panel)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BG1	84	Skid Control Sensor Rear LH Wire and Floor No.2 Wire (Wheel House Rear LH)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

▽ : Ground Points

Code	See Page	Ground Points Location
EF	76	Rear Side of the Front Left Fender Apron
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH

前照灯清洁器


From Power Source System (See Page 92)
30A MAIN
30A H-LP CLN
15A LH-IG
HEAD LP Relay
H 6 Headlamp Cleaner Motor
J 6 Junction Connector
J 8(A), J 9(B) Junction Connector
H 5 Headlamp Cleaner Control Relay
H11 Headlamp Cleaner SW
J 7 Junction Connector
PB
IG
HDLO
H
E
FRWA
B-R
W-G
G-Y
R
LG
W-B
L-O


G 1 Gateway ECU
MPL2
MPL1
F13(B), F14(C) Front Passenger Side J/B ECU
HDLO
MPX1
MPX2
From Power Source System (See Page 92)
20A WASH
WASH Relay
Front Controller
C16(A), C17(B) Combination SW
Washer SW
Off
On
W
EW
WF
Light Control SW
OFF
Tail
Head
AUTO
EL
A
T
H
Windshield Washer Motor
Luggage Room J/B ECU
J24(A), J25(B) Junction Connector
D 3(A), D 4(C) Driver Side J/B ECU
R
GR
BR
L
O
G
GR-L
L-O
W-B

Service Hints

H5 Headlamp Cleaner Control Relay

3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

4–Ground : Always continuity

○ : Parts Location

Code		See Page	Code	See Page	Code		See Page
C16	A	66	G1	67	J8	A	68
C17	B	66	H5	63	J9	B	68
D3	A	67	H6	63	J24	A	71
D5	C	67	H11	67	J25	B	71
F13	B	67	J6	64	W2		65
F14	C	67	J7	64			

▭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)
2	26	Engine Room R/B No.2 (Engine Compartment Left)

⬭ : Junction Block and Wire Harness Connector

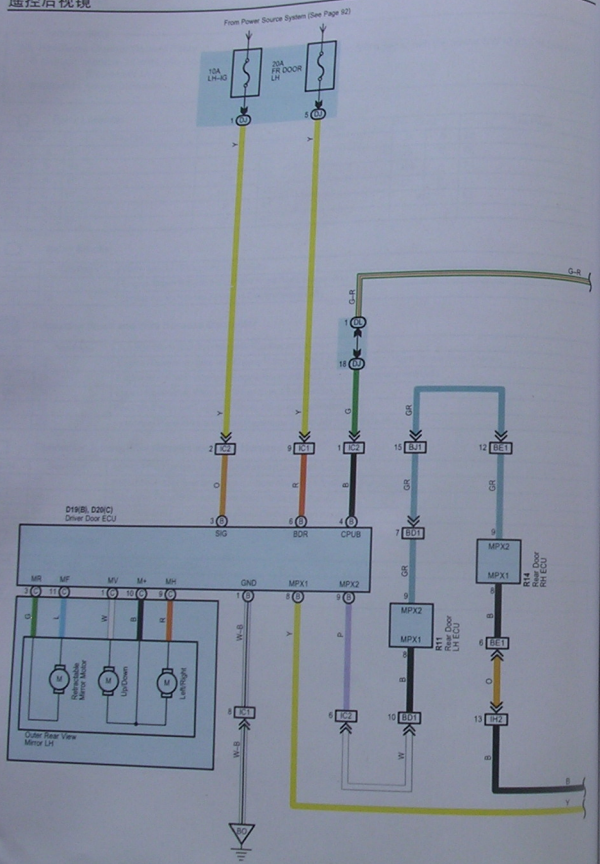
Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	23	Engine Room Main Wire and Engine Room J/B No.1 (Near the Front Right Suspention Tower)
2F	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
DK	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
LC	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)

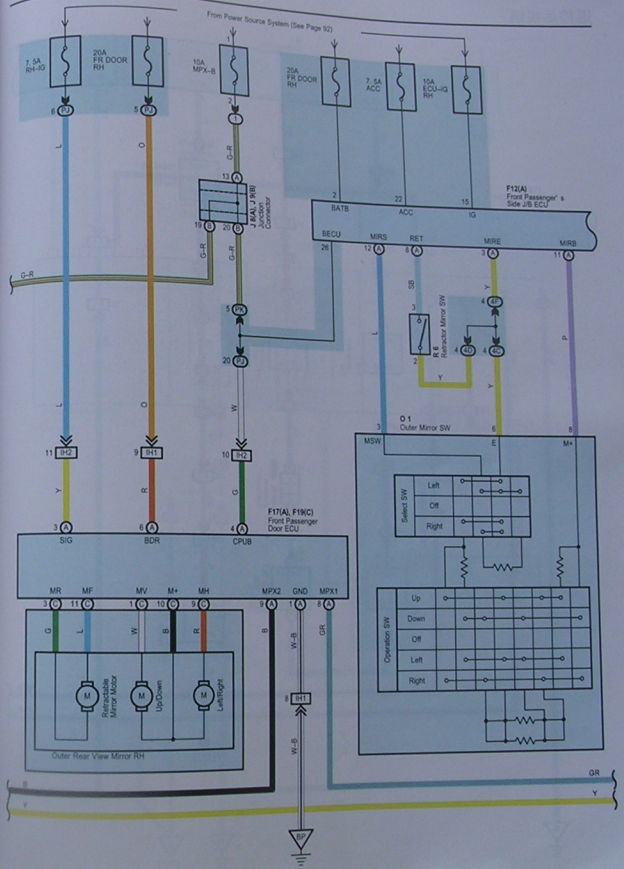
□ : Connector Joining Wire Harness and Wire Harness

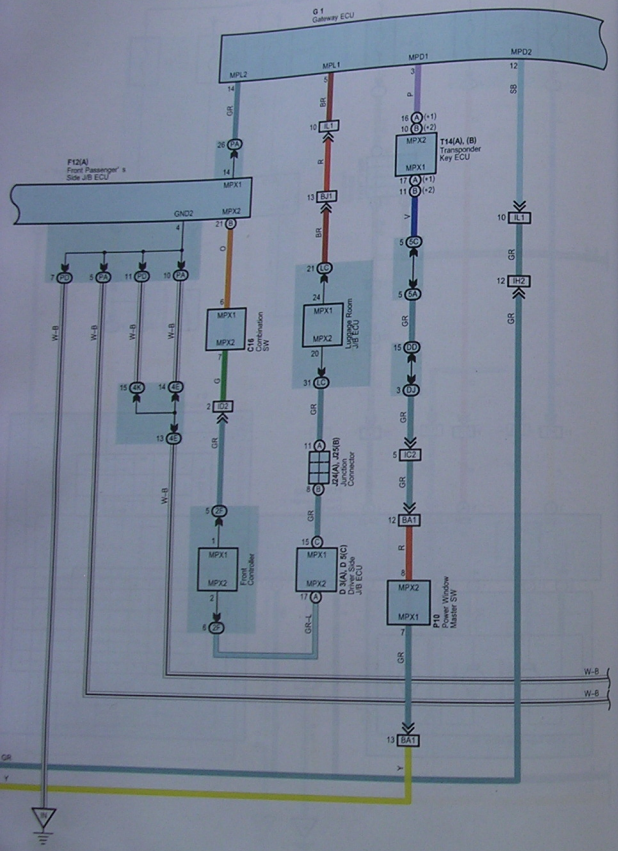
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

▽ : Ground Points

Code	See Page	Ground Points Location
EE	76	Rear Side of the Front Left Fender Apron
EF		


From Power Source System (See Page 92)
10A LH-IG
20A FR DOOR LH
D19(B), D20(C) Driver Door ECU
SIG
BDR
CPUB
MR
MF
MV
M+
MH
GND
MPX1
MPX2
Outer Rear View Mirror LH
Mirror Mode
Up/Down
Left/Right
R11 Front Door LH ECU
R14 Front Door RH ECU


From Power Source System (See Page 92)
7.5A RH-IG
20A FR DOOR RH
10A MPX-B
20A FR DOOR RH
7.5A ACC
10A ECU-IG RH
J (A), J (B) Junction Connector
F12(A) Front Passenger's Side J/B ECU
BATB
ACC
IG
BECU
MIRS
RET
MIRE
MIRB
R 6 Retractor Mirror SW
O 1 Outer Mirror SW
F17(A), F19(C) Front Passenger Door ECU
Select SW
Left
Off
Right
Operation SW
Up
Down
Off
Left
Right
Outer Rear View Mirror RH


G 1
Gateway ECU
MPL2
MPL1
MPD1
MPD2
F12(A)
Front Passenger's Side J/B ECU
GND2
C16
Combination SW
Main Body ECU (Driver Side J/B)
D 3(A), D 4(C)
Driver Side J/B ECU
P18
Power Window Master SW
T14(A), (B)
Transponder Key ECU
J4(A), J7(B)
Junction Connector
J16(A), J15(F), J31(G)
Junction Connector
J16(A), J15(F), J31(G)
Junction Connector
ST-Plug
J15(A), J32(D), J33(E)
Junction Connector
From Power Source System (See Page 92)
10A
LH-IG2
J4(A), J7(B)
Junction Connector
N 1
Neutral Start SW
CANL
CANH
E 2(A), E 5(D)
Engine ECU
W-B
GR
Y
L
R
W
B
BR
SB
O
P
V
LG

遥控后视镜

System Outline

The driver can adjust the angle of the outer mirror at his or her will by operating the outer mirror SW.

Electric Storage System

When the ignition SW is turned to "OFF" from "ACC" or "ON" (Ignition SW type) or the power SW is pushed "OFF position" from "ACC position" or "ON position" (Power SW type), the signal is communicated to the door ECU, and the outer rear view mirror motor is controlled to fold the mirror. When the ignition SW is turned to "ON" or "ACC" from "OFF" (Ignition SW type) or the power SW is pushed to "ON position" or "ACC position" from "OFF position" (Power SW type), the signal is communicated and the outer rear view mirror motor is controlled to unfold the mirror.

Service Hints

D19 (B) Driver Door ECU

(B) 4, (B) 6–Ground : Always approx. 12 volts

(B) 3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

(B) 1–Ground : Always continuity

F17 (A) Front Passenger Door ECU

(A) 4, (A) 6–Ground : Always approx. 12 volts

(A) 3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

(A) 1–Ground : Always continuity

○ : Parts Location

Code	See Page	Code		See Page	Code		See Page
C16	66	J5	A	64	J33	E	60, 68
D3 A	67	J6	B	64	N1		64
D5 C	67	J8	A	68	O1		68
D19 B	70	J9	B	68	P10		72
D20 C	70	J10	A	58, 68	R6		68
E2 A	63	J15	F	58, 68	R11		72
E5 D	63	J16	A	60, 68	R14		72
I12 A	67	J24	A	71	T14	A	69
I17 A	71	J25	B	71		B	69
I19 C	71	J31	G	58, 68			
G1	67	J32	D	60, 68			

⊃ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

⬭ : Junction Block and Wire Harness Connector

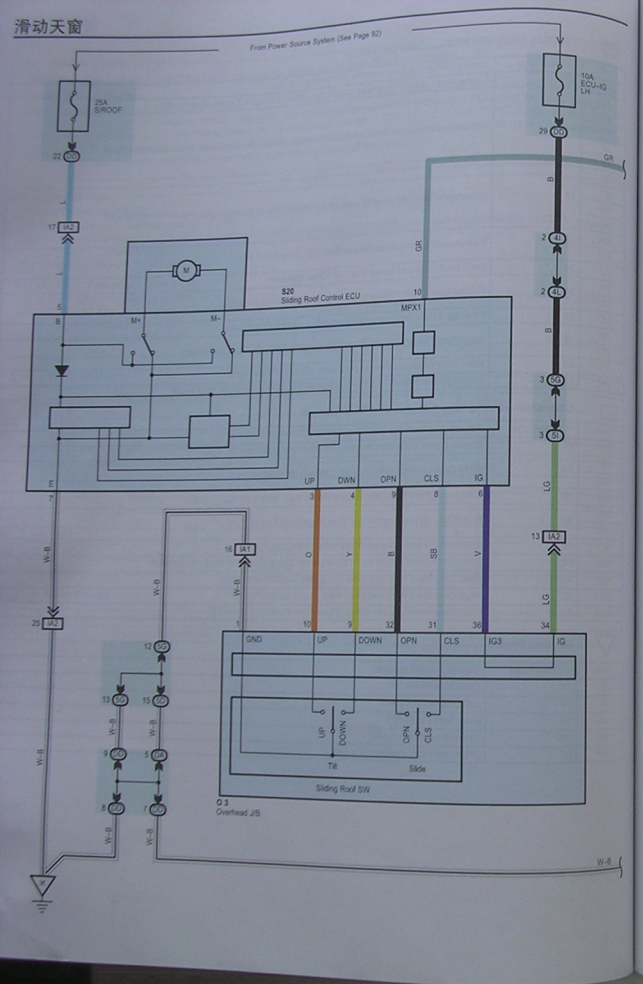
Code	See Page	Junction Block and Wire Harness (Connector Location)
0F	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
4C	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4D		
4E		
4F		
4K		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5C		
5D		
5G		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
DJ	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
DK	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
DL		
LC	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PJ	40	Floor Wire and Front Passenger's Side J/B (Cowl Side Right)
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)

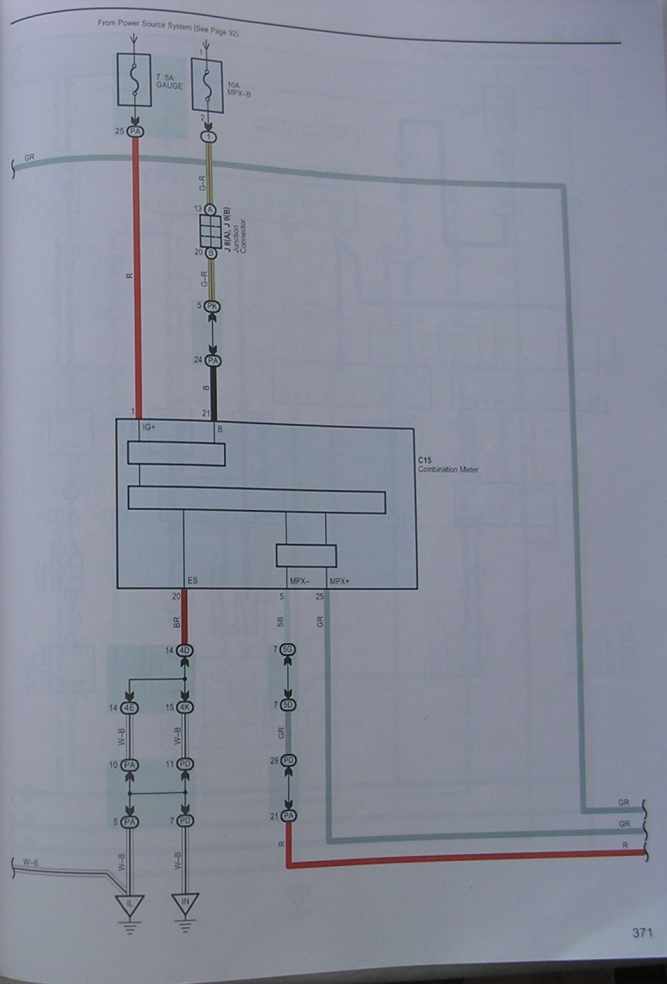
□ : Connector Joining Wire Harness and Wire Harness

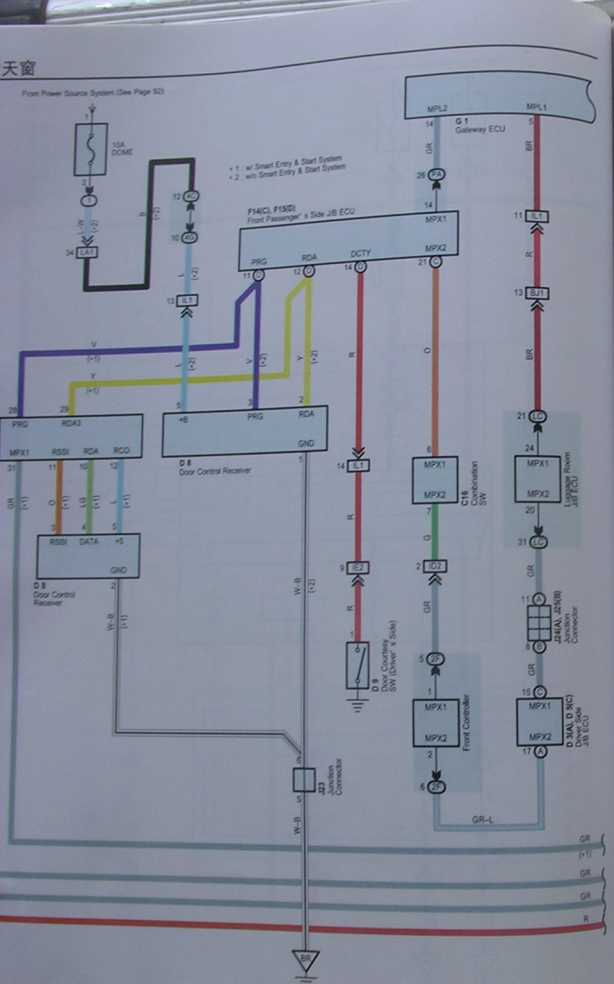
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	76	Engine Room Main Wire and Engine Wire (Inside of the ECU Box)
IC1	78	Front Door LH Wire and Floor No.2 Wire (Left Kick Panel)
IC2		
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IH1	80	Front Door RH Wire and Floor Wire (Right Kick Panel)
IH2		
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BA1	82	Front Door LH Wire and Front Door LH No.2 Wire (Inside of the Front Door LH)
BD1	82	Rear Door No.2 Wire and Floor No.2 Wire (Left Center Pillar)
BE1	82	Rear Door No.1 Wire and Floor Wire (Right Center Pillar)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

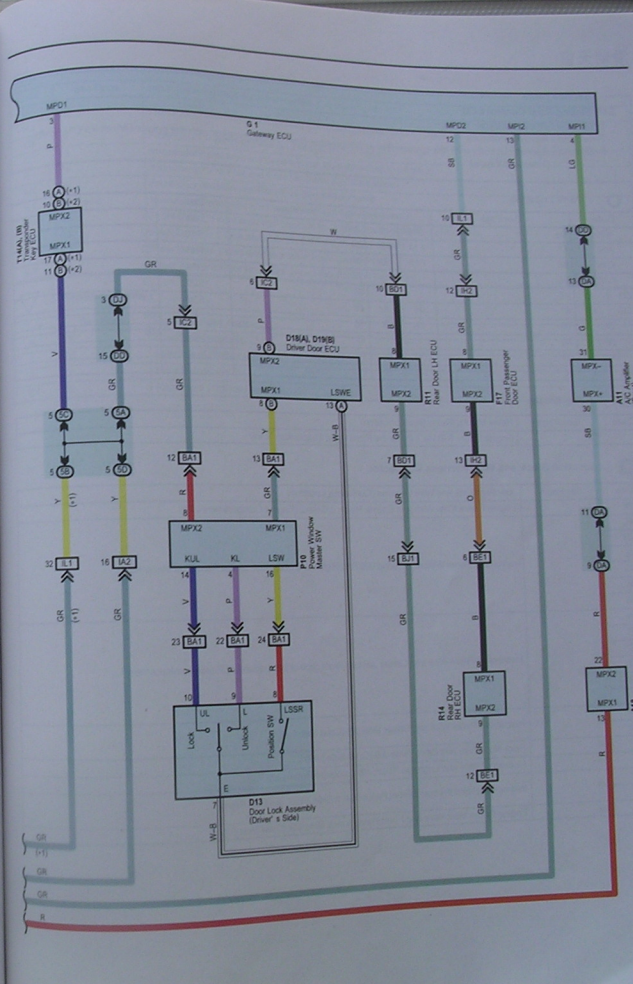
▽ : Ground Points

Code	See Page	Ground Points Location
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH
BO	82	Under the Driver's Seat
BP	82	Under the Front Passenger's Seat


From Power Source System (See Page 92)
25A SUNROOF
10A ECU-IG LH
S20
Sliding Roof Control ECU
MPX1
M+
M-
UP
DWN
OPN
CLS
IG
E
GND
UP
DOWN
OPN
CLS
IG3
IG
Tilt
Slide
Sliding Roof SW
O3
Overhead J/B
W-B
GR
LG
O
Y
B
SB
V
BR


From Power Source System (See Page 92)
7.5A GAUGE
10A MPX-B
J/B(A), J/B(B)
Joining Connector
C15
Combination Meter
IG+
B
ES
MPX-
MPX+
W-B
GR
G-R
R
BR
SB


From Power Source System (See Page 92)
10A DOME
*1 w/ Smart Entry & Start System
*2 w/o Smart Entry & Start System
F14(CI, F15(DI Front Passenger's Side J/B ECU
PRG
RDA
DCTY
MPX1
MPX2
G 1 Gateway ECU
MPL2
MPL1
D 8 Door Control Receiver
PRG
RDA
GND
RDA3
RSSI
RCO
DATA
+5
D 8 Door Control Receiver
D 9 Door Courtesy SW (Driver's Side)
C16 Combination SW
Front Controller
Luggage Room J/B ECU
D 3(AL, D 3(G) Driver Side J/B ECU
D 3(AL, J3(B) Junction Connector
J23 Junction Connector
GR-L
W-B
BR


MPD1
G 1 Gateway ECU
MPC2
MPP2
MPP1
T14(AL, W) Luggage Room Relay (ECU)
D18(AL, D19(B) Driver Door ECU
MPX2
MPX1
LSWE
PM0 Power Window Master SW
KUL
KL
LSW
D13 Door Lock Assembly (Driver's Side)
Lock
Unlock
Position SW
LSSR
R11 Rear Door LH ECU
R14 Rear Door RH ECU
F1T Front Passenger Door ECU
A1T Amplifier (Front)
A1R Tweeter Assembly Center
GR
W
W-B

动天窗

Service Hints

S20 Sliding Roof Control ECU

5–Ground : Always approx. 12 volts
7–Ground : Always continuity
6–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

: Parts Location

Code	See Page
A11	66
A18	66
C15	66
C16	66
A	67
C	67
D8	70
D9	70
D13	70
A	70

Code		See Page
D19	B	70
F14	C	67
F15	D	67
F17		71
G1		67
J8	A	68
J9	B	68
J23		71
J24	A	71
J25	B	71

Code		See Page
O3		71
P10		72
R11		72
R14		72
S20		73
S36		73
T14	A	69
	B	69

: Relay Blocks

de	See Page	Relay Blocks (Relay Block Location)
	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

: Junction Block and Wire Harness Connector

de	See Page	Junction Block and Wire Harness (Connector Location)
	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)

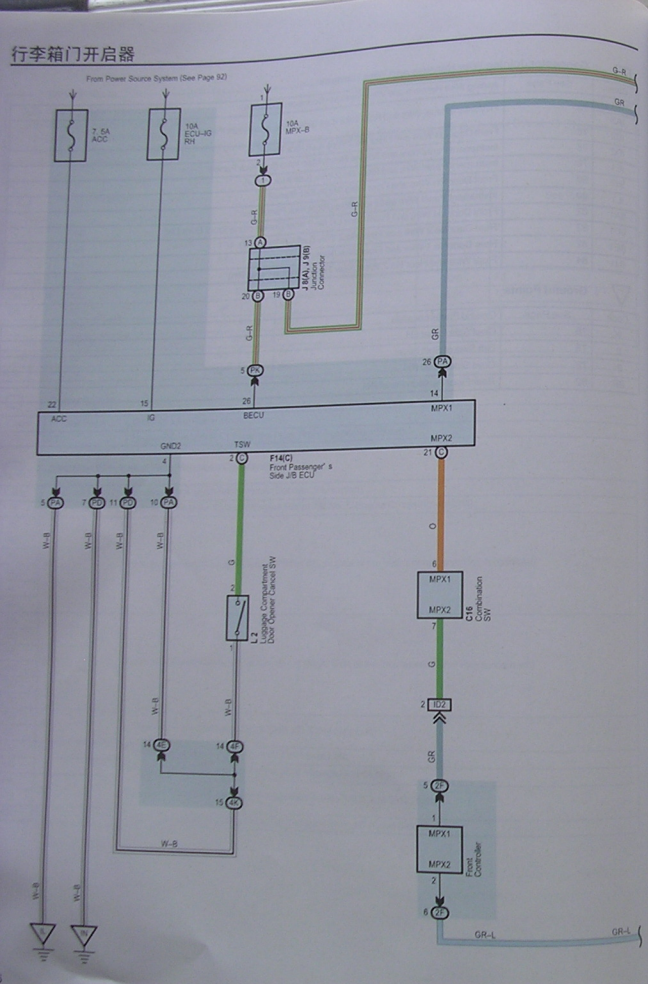
: Connector Joining Wire Harness and Wire Harness

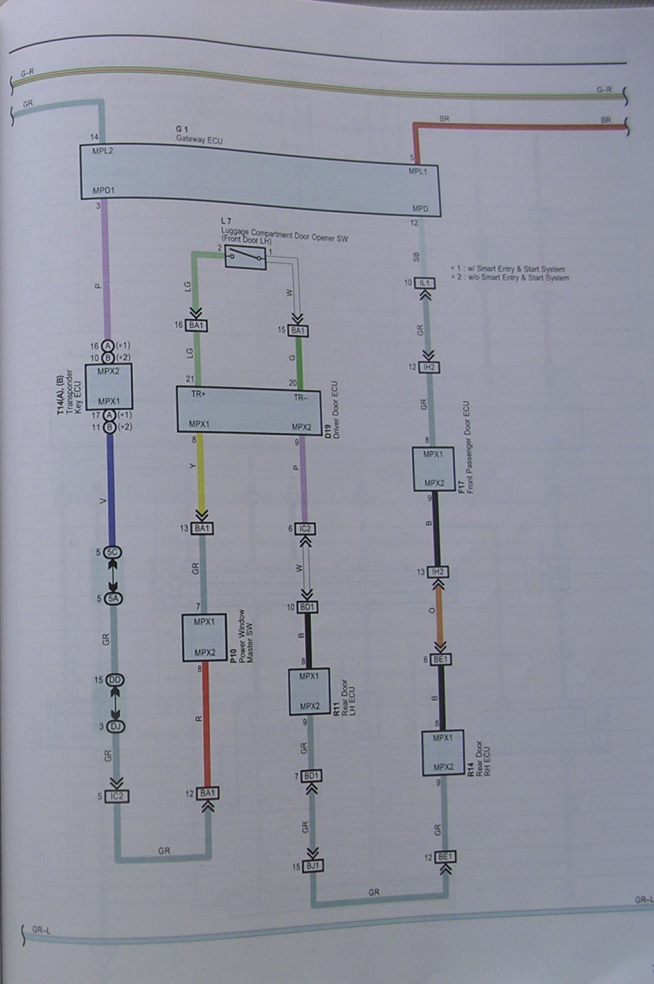
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	78	Instrument Panel Wire and Roof Wire (Left Side of the Instrument Panel)
IA2		
IC2	78	Front Door LH Wire and Floor No.2 Wire (Left Kick Panel)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IE1	78	Front Door RH Wire and Floor No.2 Wire (Left Kick Panel)
IH2	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
IL1	80	Front Door LH Wire and Front Door LH No.2 Wire (Inside of the Front Door LH)
BA1	82	Rear Door No.2 Wire and Floor No.2 Wire (Left Center Pillar)
BD1	82	Rear Door No.1 Wire and Floor Wire (Right Center Pillar)
BE1	82	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)
BJ1	84	

: Ground Points

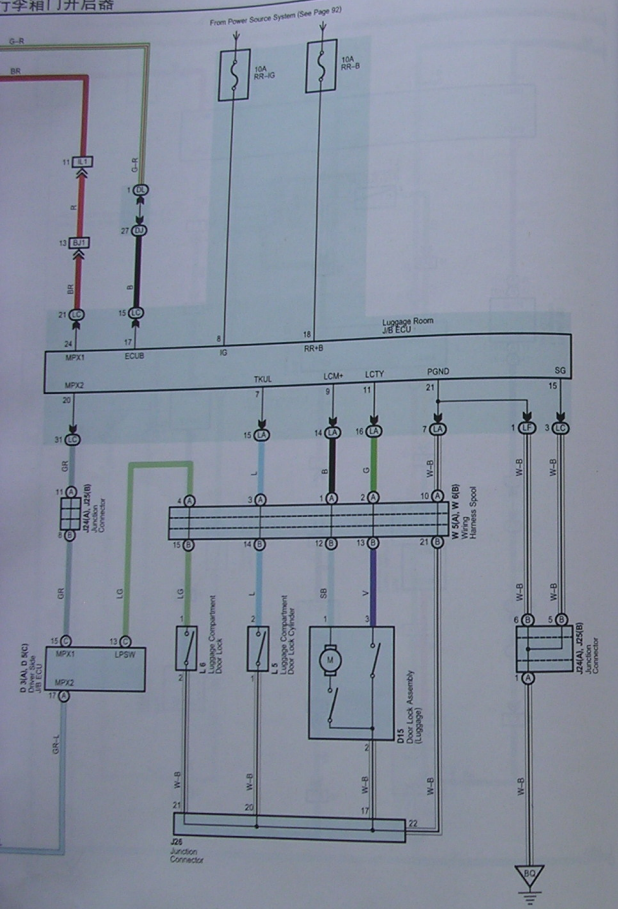
Code	See Page	Ground Points Location
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH
BR	82	Rear Floor Partition Panel RH

行李箱门开启器


From Power Source System (See Page 82)
7.5A ACC
10A ECU-IG RH
10A MPX-B
J1(A), J 9(B) Junction Connector
G-R
GR
ACC
IG
BECU
MPX1
MPX2
GND2
TSW
F14(C) Front Passenger's Side J/B ECU
L2 Luggage Compartment Door Opener Cancel SW
C16 Combination SW
Front Controller
W-B
GR-L


G-R
GR
BR
G1 Gateway ECU
MPL2
MPL1
MPD1
MPD
L7 Luggage Compartment Door Opener SW (Front Door LH)
T14(A), (B) Front Door Key ECU
D19 Driver Door ECU
P10 Power Window Master SW
R11 Rear Door LH ECU
R14 Rear Door RH ECU
F17 Front Passenger Door ECU
* 1 : w/ Smart Entry & Start System
* 2 : w/o Smart Entry & Start System
GR-L

行李箱门开启器



Service Hints

Luggage Room J/B ECU

17, 18–Ground : Always approx. 12 volts
8–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
15, 21–Ground : Always continuity

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
C16	66	J8 A	68	L7	71
D3 A	67	J9 B	68	P10	72
D5 C	67	J24 A	71	R11	72
D15	70	J25 B	71	R14	72
D19	70	J26	71	T14 A	69
F14 C	67	L2	68	T14 B	69
F17	71	L5	71	W5 A	73
G1	67	L6	71	W6 B	73

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

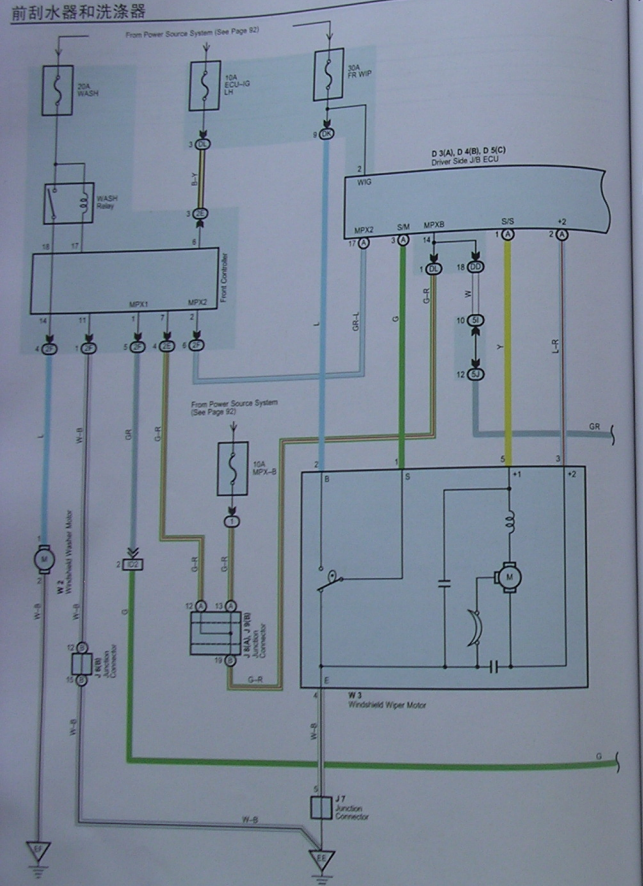
⬭ : Junction Block and Wire Harness Connector

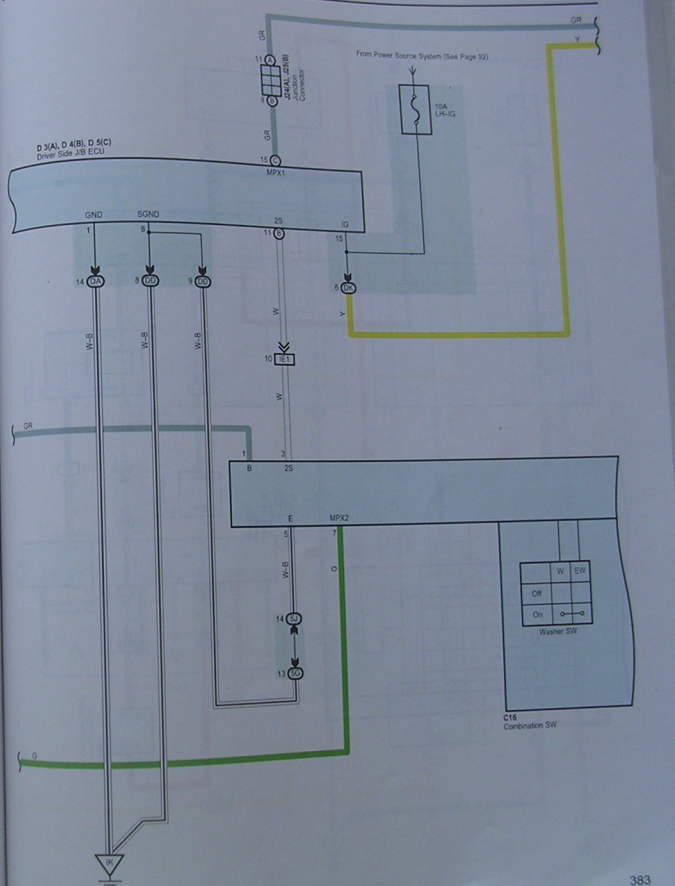
Code	See Page	Junction Block and Wire Harness (Connector Location)
2F	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
4E	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4F		
4K		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5C		
DD	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DJ	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
DL	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
LA	54	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
LC	55	
LF		
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)

□ : Connector Joining Wire Harness and Wire Harness

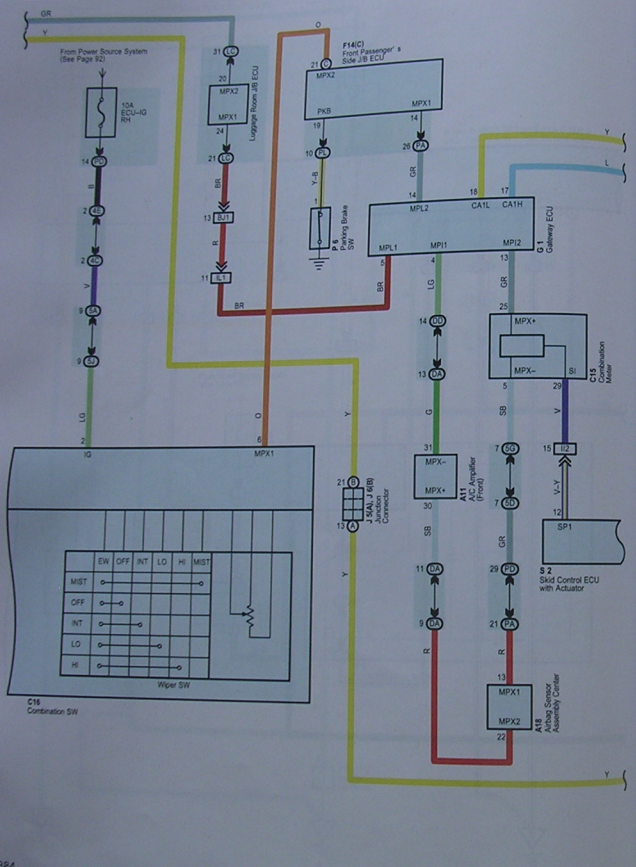
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	78	Front Door LH Wire and Floor No.2 Wire (Left Kick Panel)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IH2	80	Front Door RH Wire and Floor Wire (Right Kick Panel)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BA1	82	Front Door LH Wire and Front Door LH No.2 Wire (Inside of the Front Door LH)
BD1	82	Rear Door No.2 Wire and Floor No.2 Wire (Left Center Pillar)
BE1	82	Rear Door No.1 Wire and Floor Wire (Right Center Pillar)
BJ1	84	Floor Wire and Floor No.2 Wire (Right Floor Partition Panel RH)

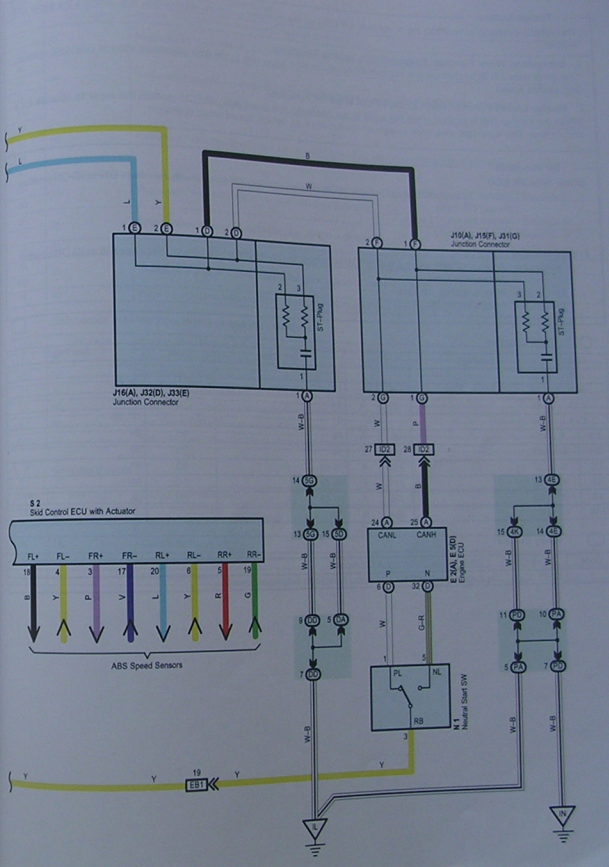
前刮水器和洗涤器


From Power Source System (See Page 92)
20A WASH
10A ECU-IG LH
30A FR WIP
D 3(A), D 4(B), D 5(C) Driver Side J/B ECU
WIG
WASH Relay
Front Controller
MPX1
MPX2
S/M
MPXB
S/S
+2
From Power Source System (See Page 92)
10A MPX-B
W 2 Windshield Washer Motor
J 8(A), J 8(B) Junction Connector
W 3 Windshield Wiper Motor
J 7 Junction Connector


From Power Source System (See Page 92)
10A LH-IG
J 4(A), J 4(B) Junction Connector
D 3(A), D 4(B), D 5(C) Driver Side J/B ECU
MPX1
GND
SGND
2S
IG
MPX2
Washer SW
C16 Combination SW

前刮水器和洗涤器


From Power Source System (See Page 92)
10A ECU-IG RH
Luggage Room J/B ECU
F14(C) Front Passenger's Side J/B ECU
MPX2
MPX1
PKB
P 6 Parking Brake SW
G 1 Gateway ECU
MPL2
CA1L
CA1H
MPL1
MPI1
MPI2
C13 Combination Meter
MPX+
MPX−
SI
A11 A/C Amplifier (Front)
S 2 Skid Control ECU with Actuator
SP1
J 3(A), J 6(B) Junction Connector
IG
C16 Combination SW
EW
OFF
INT
LO
HI
MIST
Wiper SW
A18 Airbag Sensor Assembly Center


J16(A), J32(D), J33(E) Junction Connector
J15(A), J15(F), J31(G) Junction Connector
ST−Plug
S 2 Skid Control ECU with Actuator
FL+
FL−
FR+
FR−
RL+
RL−
RR+
RR−
ABS Speed Sensors
CANL
CANH
E 2(A), E 6(D) Engine ECU
N 1 Neutral Start SW
PL
NL
RB
EB1

前刮水器和洗涤器

System Outline

The vehicle condition is input into the driver side J/B ECU by the multiplex communication control and controls the wiper and washer.

1. Intermittent Wiper Function Responding to Vehicle Condition

The driver side J/B ECU controls the intermittent operation time according to the time adjustable volume (Variable resister) and vehicle speed.

2. Washer Linked Function (With Excess Fluid Wipe Off Function)

When the washer SW is pushed while the wiper is not operating, the driver side J/B ECU controls the wiper to operate for a certain time. The wiper operates once to wipe off the excess fluid, vehicle speed linked operation.

Service Hints

Driver Side J/B ECU

15–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
14–Ground : Always approx. 12 volts
1, 8–Ground : Always continuity

Front Controller

6–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
22, 23–Ground : Always approx. 12 volts
11–Ground : Always continuity

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A11		66	G1		67	J25	B	71
A18		66	J5	A	64	J31	G	58, 68
C15		66	J6	B	64	J32	D	60, 68
C16		66	J7		64	J33	E	60, 68
D3	A	67	J8	A	68	N1		64
D4	B	67	J9	B	68	P6		68
D5	C	67	J10	A	58, 68	S2		65
E2	A	63	J15	F	58, 68	W2		65
E5	D	63	J16	A	60, 68	W3		65
F14	C	67	J24	A	71			

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

○ : Junction Block and Wire Harness Connector

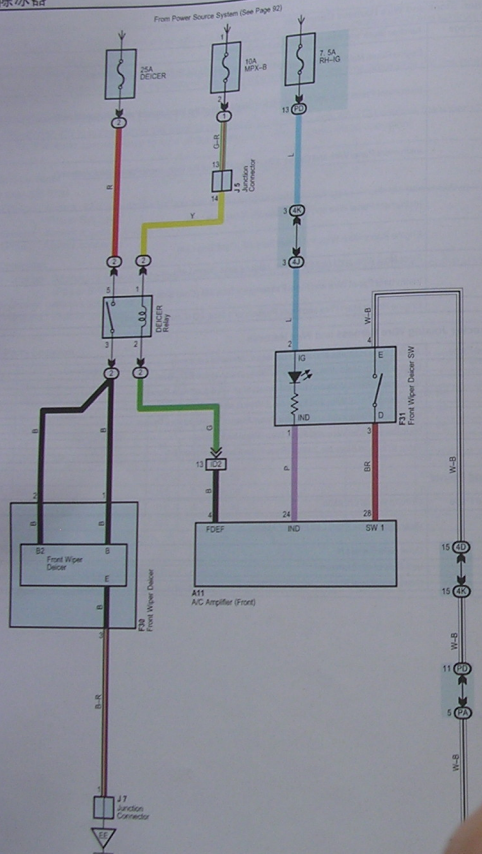
Code	See Page	Junction Block and Wire Harness (Connector Location)
2E	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
2F		
4C	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4E		
4K		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5D		
5G		
5I		
5J		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
DK		
DL	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
LC	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PA		
PD	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)
PL		

□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	76	Engine Room Main Wire and Engine Wire (Inside of the ECU Box)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IE1	78	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
II2	80	Instrument Panel Wire and Engine Room Main Wire (Right Kick Panel)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

▽ : Ground Points

Code	See Page	Ground Points Location
EE	76	Rear Side of the Front Left Fender Apron
EF		
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH



Service Hints

F31 Front Wiper Deicer
2–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A11	66	F31	67	J7	64
F30	63	J5	64		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)
2	26	Engine Room R/B No.2 (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
4D	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4J		
4K		
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		

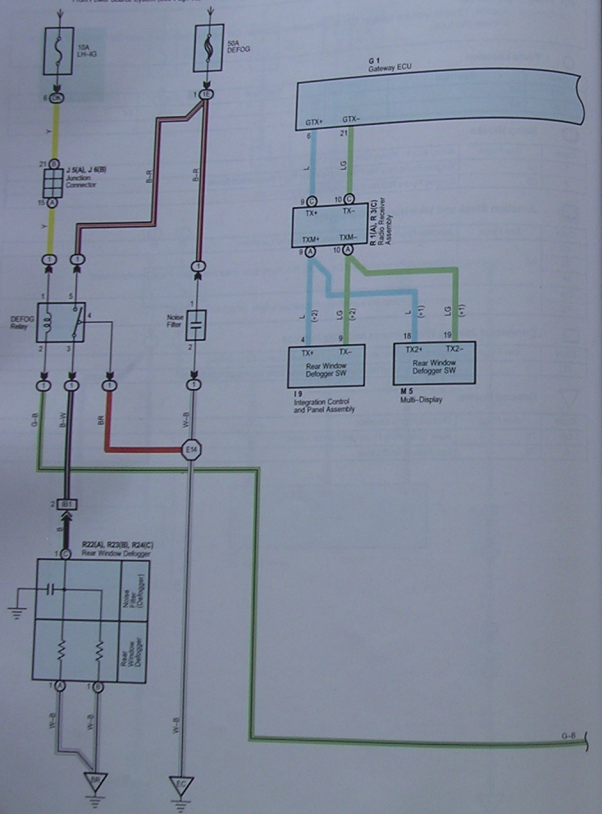
: Connector Joining Wire Harness and Wire Harness

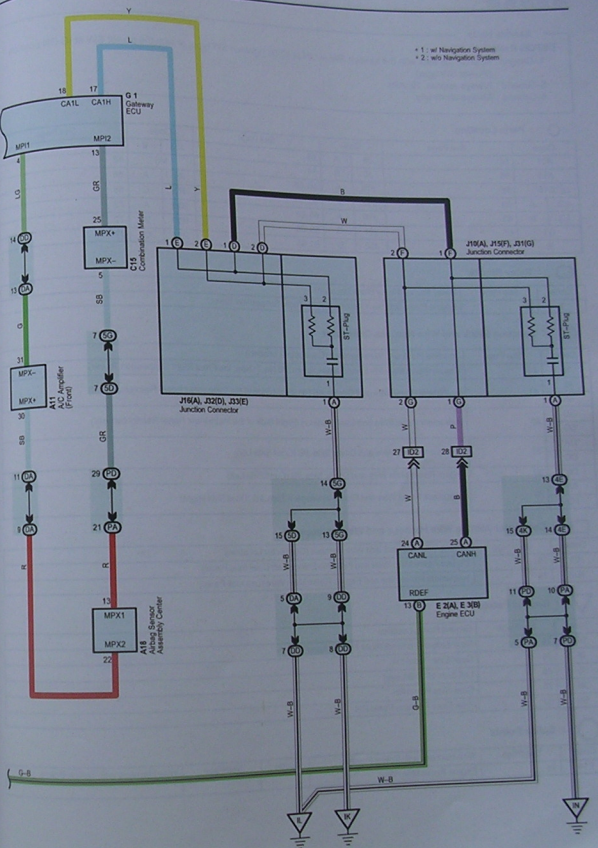
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
EE	76	Rear Side of the Front Left Fender Apron
IL	78	Left Side of Shift Lever

后窗除雾器


From Power Source System (See Page 92)
10A
LH-IG
30A
DEFOG
J 5(A), J 6(B)
Junction Connector
DEFOG
Relay
Noise
Filter
E4
E1
R22(A), R23(B), R24(C)
Rear Window Defogger
Noise Filter (Defogger)
Rear Window Defogger
E8
E7
G 1
Gateway ECU
GTX+
GTX-
R 1(A), R 3(C)
Rear Window Defogger Assembly
TX+
TX-
TXM+
TXM-
I 9
Integration Control and Panel Assembly
Rear Window Defogger SW
M 5
Multi-Display
TX2+
TX2-
G-B
W-B


* 1 : w/ Navigation System
* 2 : w/o Navigation System
G 1
Gateway ECU
CA1L
CA1H
MPI1
MPI2
C 15
Combination Meter
MPX+
MPX-
A11
ECU-B Repeater (Front)
J16(A), J12(D), J13(E)
Junction Connector
J10(A), J15(F), J11(G)
Junction Connector
ST-Plug
A48
Airbag Sensor Assembly Center
MPX1
MPX2
E 2(A), E 3(B)
Engine ECU
CANL
CANH
RDEF
G-B
W-B

窗除雾器

Service Hints

DEFOG Relay

1–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
5–Ground : Always approx. 12 volts
4–Ground : Always continuity

: Parts Location

Code	See Page
A11	66
A18	66
C15	66
C2 A	63
C3 B	63
G1	67
I9	67
J5 A	64
J6 B	64
J10 A	58, 68
J15 F	58, 68
J16 A	60, 68
J31 G	58, 68
J32 D	60, 68
J33 E	60, 68
M5	68
R1 A	68
R3 C	68
R22 A	72
R23 B	72
R24 C	72

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	23	Engine Room Main Wire and Engine Room J/B No.1 (Near the Front Right Suspention Tower)
4E	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4K		
5D	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5G		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
DK	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB1	78	Engine Room Main Wire and Floor No.2 Wire (Left Cowl Side Panel)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)

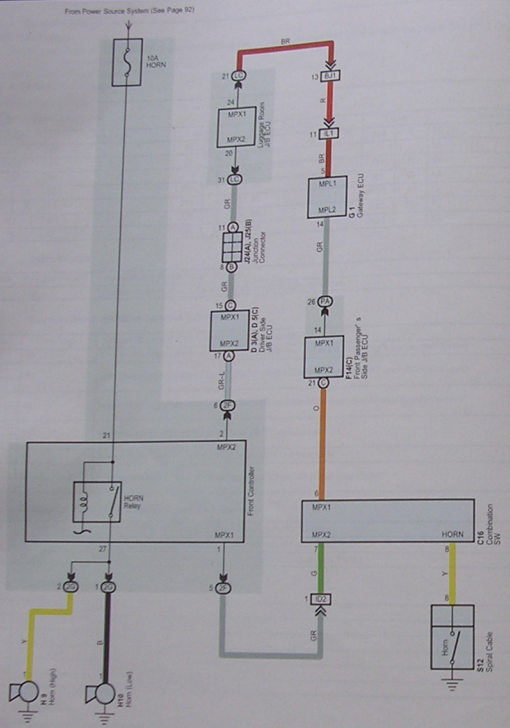
: Ground Points

Code	See Page	Ground Points Location
EC	76	Rear Side of the Front Right Fender Apron
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH
BR	82	Rear Floor Partition Panel RH

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E14	76	Engine Room Main Wire			

喇叭



Service Hints

Front Controller

21–Ground : Always approx. 12 volts

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
C16	66	G1	67	J25 B	71
D3 A	67	H9	63	S12	69
D5 C	67	H10	63		
F14 C	67	J24 A	71		

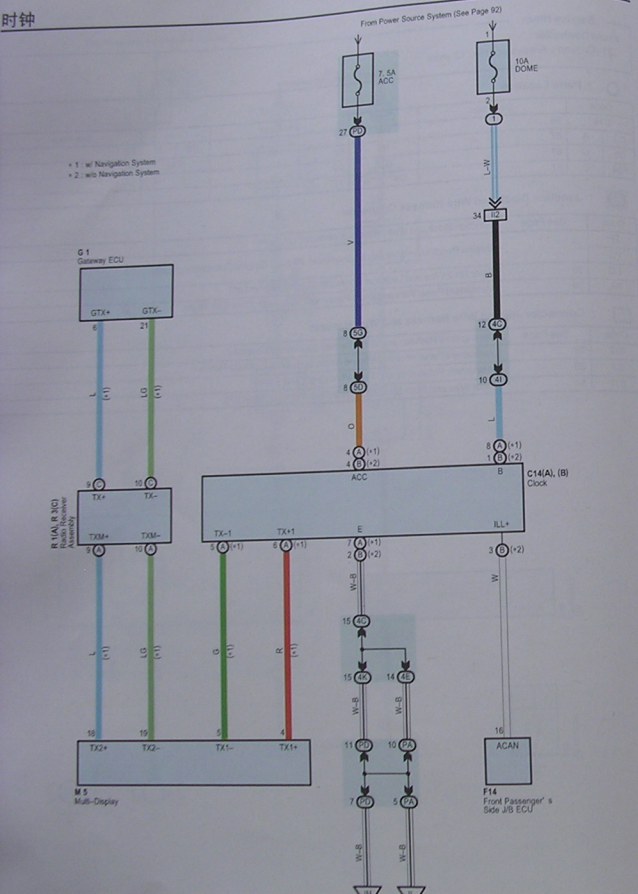
⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2F	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
2G		
LC	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)

□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

时钟



Service Hints

C14 (A) Clock (w/ Navigation System)

(A) 4–Ground : Approx. 12 volts with the ignition SW at ON or ACC position (Ignition SW type) or with the power SW at IG ON or ACC ON position (Power SW type)
(A) 8–Ground : Always approx. 12 volts
(A) 7–Ground : Always continuity

C14 (B) Clock (w/o Navigation System)

(B) 4–Ground : Approx. 12 volts with the ignition SW at ON or ACC position (Ignition SW type) or with the power SW at IG ON or ACC ON position (Power SW type)
(B) 1–Ground : Always approx. 12 volts
(B) 2–Ground : Always continuity

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
C14	A	66	G1		67	R3	C	68
	B	66	M5		68			
F14		67	R1	A	68			

▢ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

▢ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
4C 4E 4I 4K	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
5D 5G	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
PA PD	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)

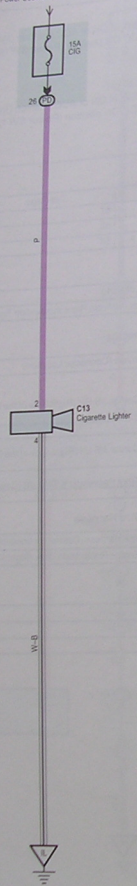
□ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
II2	80	Instrument Panel Wire and Engine Room Main Wire (Right Kick Panel)

▽ : Ground Points

Code	See Page	Ground Points Location
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH

From Power Source System (See Page 92)



Service Hints

C13 Cigarette Lighter

2–Ground : Approx. 12 volts with the ignition SW at ON or ACC position (Ignition SW type) or with the power SW at IG ON or ACC ON position (Power SW type)

4–Ground : Always continuity

: Parts Location

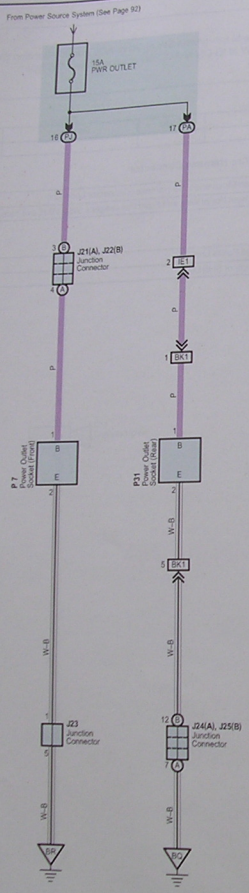
Code	See Page	Code	See Page	Code	See Page
C13	66				

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
PD	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)

: Ground Points

Code	See Page	Ground Points Location
IL	78	Left Side of Shift Lever



Service Hints

P7 Power Outlet Socket (Front)

1–Ground : Approx. 12 volts with the ignition SW at ON or ACC position (Ignition SW type) or with the power SW at IG ON or ACC ON position (Power SW type)

2–Ground : Always continuity

P31 Power Outlet Socket (Rear)

1–Ground : Approx. 12 volts with the ignition SW at ON or ACC position (Ignition SW type) or with the power SW at IG ON or ACC ON position (Power SW type)

2–Ground : Always continuity

○ : Parts Location

Code		See Page	Code		See Page	Code	See Page
J21	A	71	J24	A	71	P31	75
J22	B	71	J25	B	71		
J23		71	P7		68		

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PJ	40	Floor Wire and Front Passenger's Side J/B (Cowl Side Right)

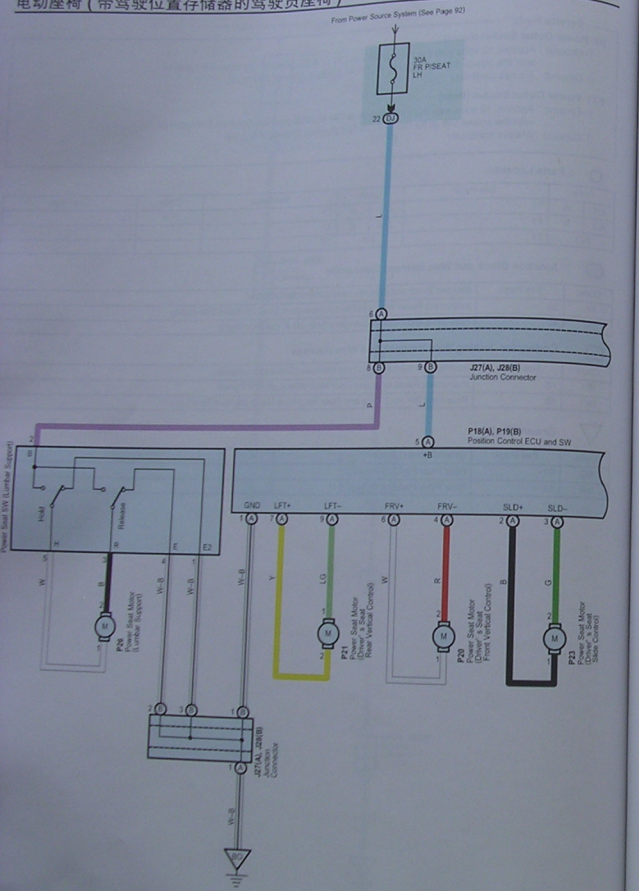
□ : Connector Joining Wire Harness and Wire Harness

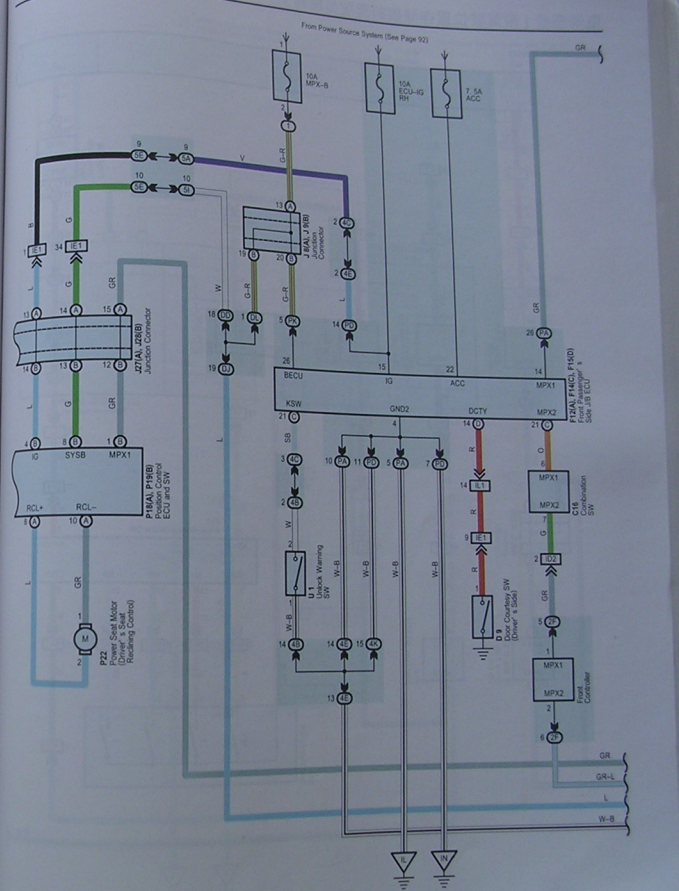
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	78	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
BK1	88	Rear Seat RH No.2 Wire and Floor No.2 Wire (Back the Rear Seat LH)

▽ : Ground Points

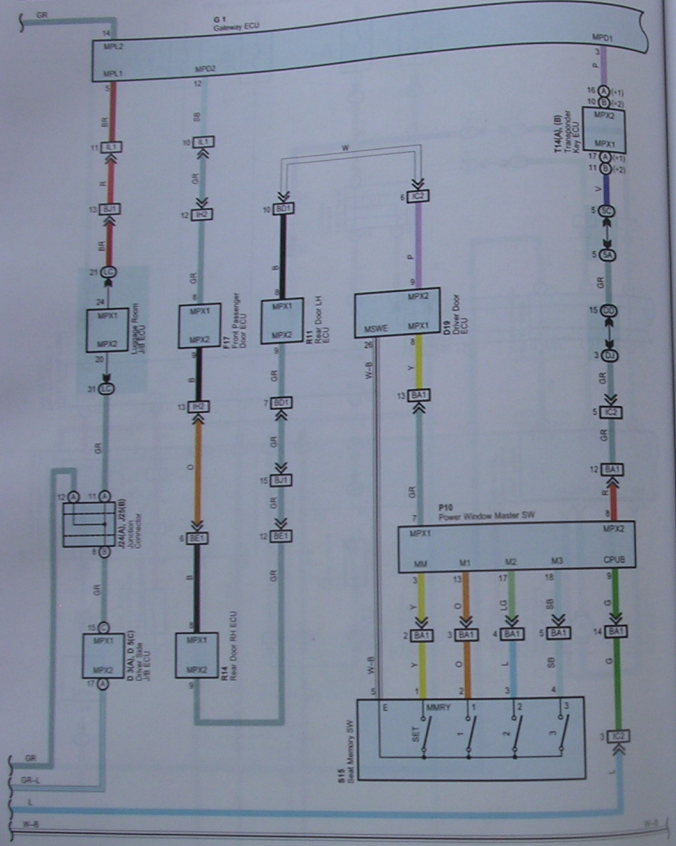
Code	See Page	Ground Points Location
BQ	82	Rear Floor Partition Panel LH
BR	82	Rear Floor Partition Panel RH

电动座椅（带驾驶位置存储器的驾驶员座椅）





电动座椅（带驾驶位置存储器的驾驶员座椅）



电动座椅（带驾驶位置存储器的驾驶员座椅）

System Outline

- In the power seat system, the position control ECU and SW receives the operation signal from the power seat control switch via infrared communication to operate each power seat motor and adjust the seat position.
- In the event that a malfunction occurs during infrared communication, this system has a fail-safe function to only slide or recline the seat.
- This system has the following function:
  - Manual slide operation
  - Manual reclining control
  - Manual front vertical control
  - Manual rear vertical operation
  - Driving position memory function

Service Hints

P18 (A), P19 (B) Position Control ECU and SW

(A) 5, (B) 8–Ground : Always approx. 12 volts
(B) 4–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
(A) 1–Ground : Always continuity

○ : Parts Location

Code		See Page
C16		66
D3	A	67
D5	C	67
D9		70
D19		70
E2	A	63
E5	D	63
F12	A	67
F14	C	67
F15	D	67
F17		71
G1		67
J5	A	64
J6	B	64
J8	A	68
J9	B	68
J10	A	58, 68
J15	F	58, 68
J16	A	60, 68
J24	A	71
J25	B	71
J27	A	74
J28	B	74
J31	G	58, 68
J32	D	60, 68
J33	E	60, 68
N1		64
P10		72
P18	A	74
P19	B	74
P20		74
P21		74
P22		74
P23		74
P26		74
P30		74
R11		72
R14		72
S15		73
T14	A	69
	B	69
U1		69

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2F	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
4B	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4C		
4E		
4K		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5C		
5D		
5E		
5G		
5I		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
DJ	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
DK	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
DL	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
LC	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)
PA		
PD		
PK		

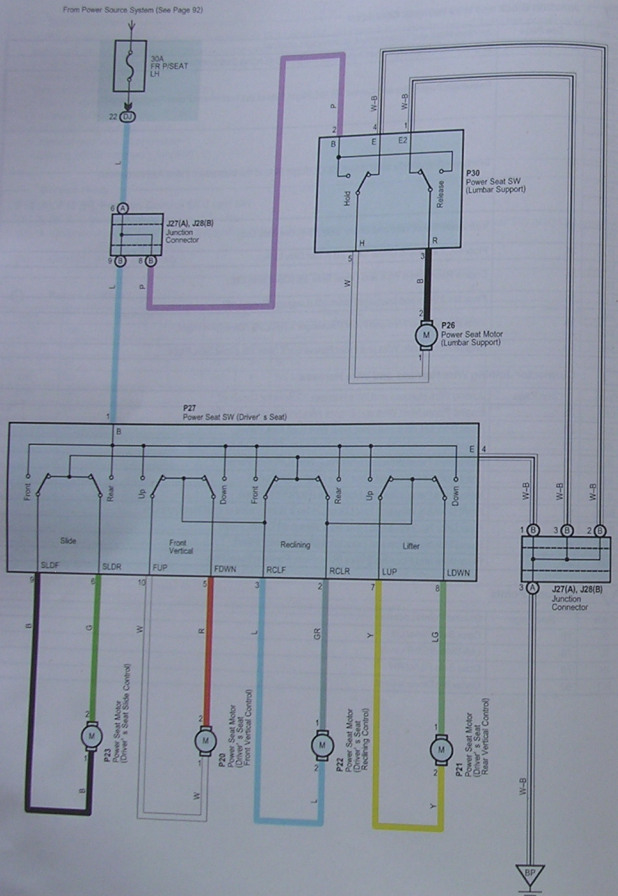
▭ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	76	Engine Room Main Wire and Engine Wire (Inside of the ECU Box)
IC2	78	Front Door LH Wire and Floor No.2 Wire (Left Kick Panel)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IE1	78	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
IH2	80	Front Door RH Wire and Floor Wire (Right Kick Panel)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BA1	82	Front Door LH Wire and Front Door LH No.2 Wire (Inside of the Front Door LH)
BD1	82	Rear Door No.2 Wire and Floor No.2 Wire (Left Center Pillar)
BE1	82	Rear Door No.1 Wire and Floor Wire (Right Center Pillar)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

▽ : Ground Points

Code	See Page	Ground Points Location
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH
BO	82	Under the Driver's Seat

电动座椅（不带驾驶位置存储器的驾驶员座椅）



Service Hints

P27 Power Seat SW (Driver's Seat)
1–Ground : Always approx. 12 volts
4–Ground : Always continuity

P30 Power Seat SW (Lumbar Support)
2–Ground : Always approx. 12 volts
1, 4–Ground : Always continuity

: Parts Location

Code		See Page	Code	See Page	Code	See Page
J27	A	74	P21	74	P26	74
J28	B	74	P22	74	P27	74
P20		74	P23	74	P30	74

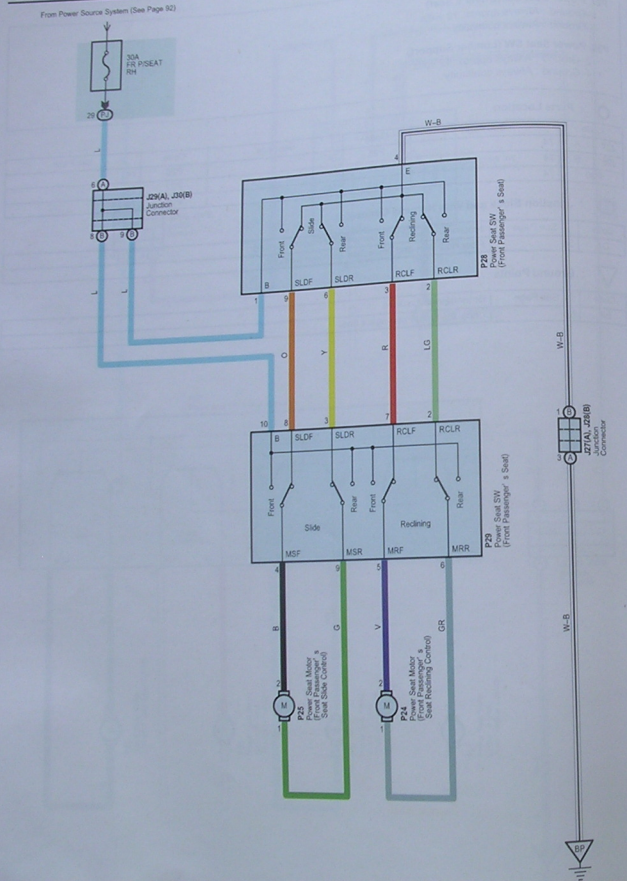
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
DJ	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)

: Ground Points

Code	See Page	Ground Points Location
BP	82	Under the Front Passenger's Seat

电动座椅（前乘员座椅）



Service Hints

P28 Power Seat SW (Front Passenger's Seat)
1–Ground : Always approx. 12 volts
4–Ground : Always continuity

P29 Power Seat SW (Front Passenger's Seat)
10–Ground : Always approx. 12 volts

○ : Parts Location

Code		See Page	Code		See Page	Code	See Page
J27	A	74	J30	B	74	P28	74
J28	B	74	P24		74	P29	74
J29	A	74	P25		74		

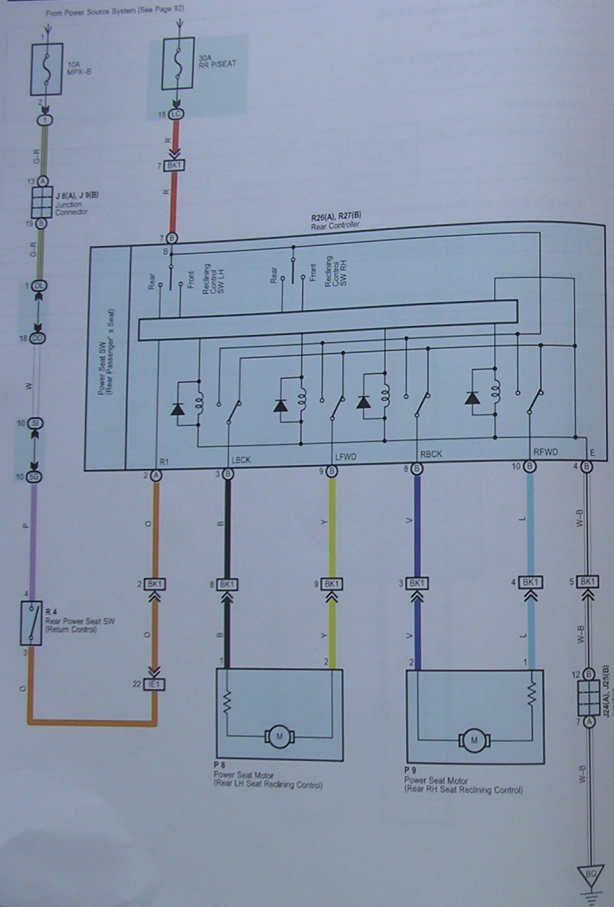
⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
PJ	40	Floor Wire and Front Passenger's Side J/B (Cowl Side Right)

▽ : Ground Points

Code	See Page	Ground Points Location
BP	82	Under the Front Passenger's Seat

电动座椅（后乘员座椅）



Service Hints

R27 (B) Rear Controller

(B) 7–Ground : Always approx. 12 volts

(B) 4–Ground : Always continuity

: Parts Location

Code		See Page	Code		See Page	Code		See Page
J8	A	68	J25	B	71			
J9	B	68	P8		72	R4		68
J24	A	71	P9		72	R26	A	75
						R27	B	75

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
5G	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5I		
DD	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DL	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
LC	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)

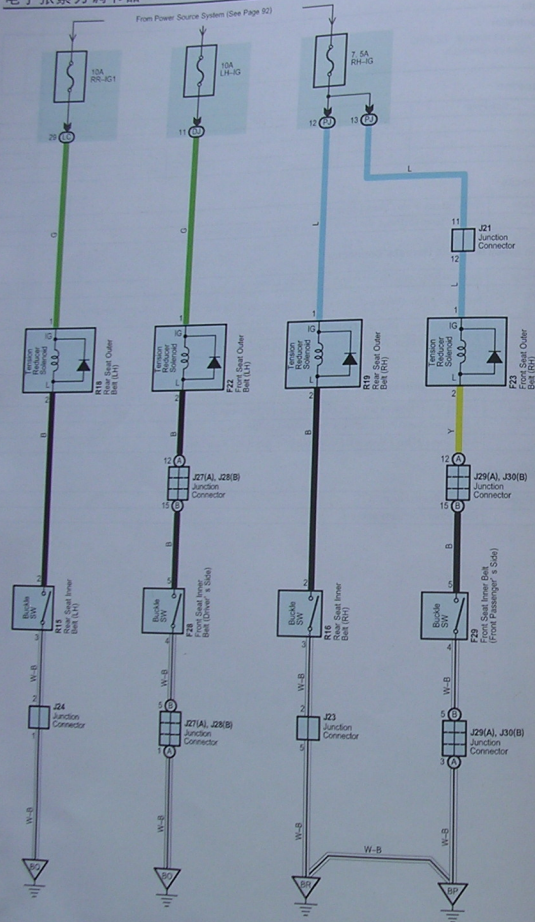
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	78	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
BK1	88	Rear Seat RH No.2 Wire and Floor No.2 Wire (Back the Rear Seat LH)

: Ground Points

Code	See Page	Ground Points Location
BQ	82	Rear Floor Partition Panel LH

电子张紧力调节器



Service Hints

F22 Front Seat Outer Belt (LH)
1–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

F23 Front Seat Outer Belt (RH)
1–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

R18 Rear Seat Outer Belt (LH)
1–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

R19 Rear Seat Outer Belt (RH)
1–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
F22	71	J23	71	J30 B	74
F23	71	J24	71	R15	72
F28	74	J27 A	74	R16	72
F29	74	J28 B	74	R18	72
J21	71	J29 A	74	R19	72

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
DJ	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
LC	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
PJ	40	Floor Wire and Front Passenger's Side J/B (Cowl Side Right)

▽ : Ground Points

Code	See Page	Ground Points Location
BO	82	Under the Driver's Seat
BP	82	Under the Front Passenger's Seat
BQ	82	Rear Floor Partition Panel LH
BR	82	Rear Floor Partition Panel RH

加油口盖开启器

Service Hints

F16 Fuel Lid Opener SW

4–3 : Closed with the fuel lid opener SW on

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
F16	67	J24 A	71		
F25	71	J25 B	71		

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
4C 4D 4E	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
LC LF	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)

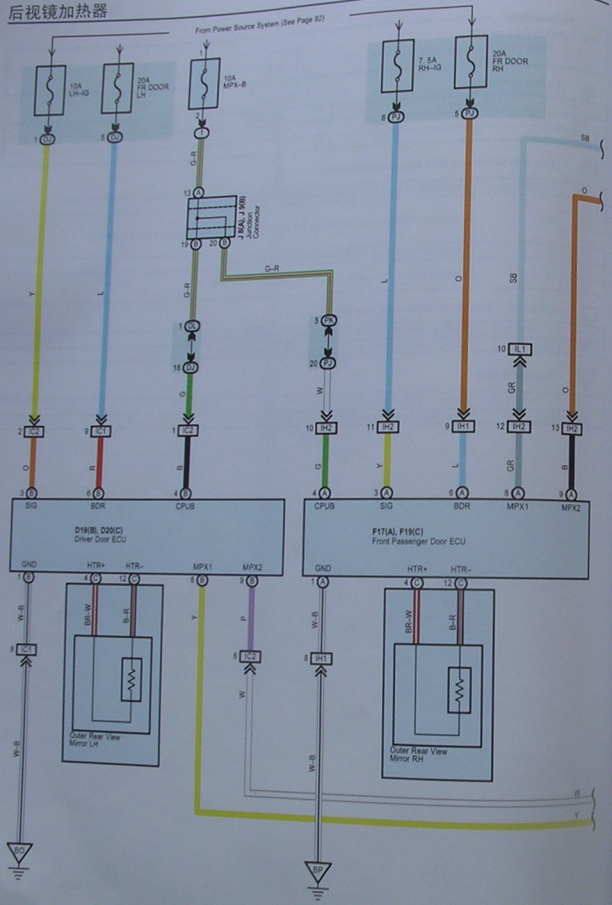
□ : Connector Joining Wire Harness and Wire Harness

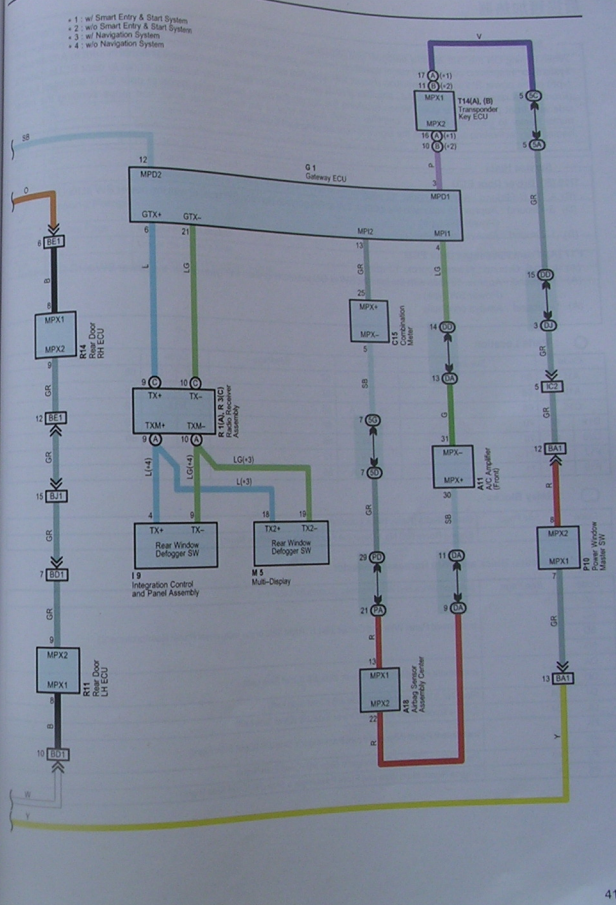
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	78	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)

▽ : Ground Points

Code	See Page	Ground Points Location
BQ	82	Rear Floor Partition Panel LH

后视镜加热器


From Power Source System (See Page 82)
10A LH-IG
20A FR DOOR LH
10A MPX-B
7.5A RH-IG
20A FR DOOR RH
J 9(A), J 9(B) Junction Connector
SIG
BDR
CPUB
SIG
CPUB
BDR
MPX1
MPX2
D19(B), D20(C) Driver Door ECU
F17(A), F19(C) Front Passenger Door ECU
GND
HTR+
HTR-
MPX1
MPX2
GND
HTR+
HTR-
Outer Rear View Mirror LH
Outer Rear View Mirror RH


*1 : w/ Smart Entry & Start System
*2 : w/o Smart Entry & Start System
*3 : w/ Navigation System
*4 : w/o Navigation System
T14(A), (B) Transponder Key ECU
G 1 Gateway ECU
MPD2
MPD1
GTX+
GTX-
R14 Rear Door RH ECU
R 1(A), R 3(C) Rear Door Speaker Assembly
C15 Combination Meter
A11 A/C Amplifier (Front)
R11 Rear Door LH ECU
I 9 Integration Control and Panel Assembly
M 5 Multi-Display
Rear Window Defogger SW
A18 Airbag Sensor Assembly Center
P10 Power Window Master SW

后视镜加热器

System Outline

When turning ON the rear window defogger SW (Which also works as the mirror heater SW) on multi-display (w/ navigation system) or integration control and panel assembly (w/o navigation system) with the ignition SW at ON position (Ignition SW type) or the power SW at IG ON position (Power SW type), the mirror heater operation request signal is sent to A/C amplifier (Front). After receiving the signal, A/C amplifier (Front) sends the mirror heater relay activating signal to door ECUs (Driver's side and front passenger's side). When receiving the signal, the mirror heater relay inside of door ECU activates for the mirror heater to generate heat. A/C amplifier (Front) counts time of the mirror heater timer, and stops sending the mirror heater relay activating signal when the signal is kept sending for 15 minutes.

Service Hints

D19 (B) Driver Door ECU

(B) 4, (B) 6–Ground : Always approx. 12 volts
(B) 3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
(B) 1–Ground : Always continuity

F17 (A) Front Passenger Door ECU

(A) 4, (A) 6–Ground : Always approx. 12 volts
(A) 3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
(A) 1–Ground : Always continuity

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A11		66	G1		67	R3	C	68
A18		66	I9		67	R11		72
C15		66	J8	A	68	R14		72
D19	B	70	J9	B	68	T14	A	69
D20	C	70	M5		68		B	69
F17	A	71	P10		72			
F19	C	71	R1	A	68			

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

⬭ : Junction Block and Wire Harness Connector

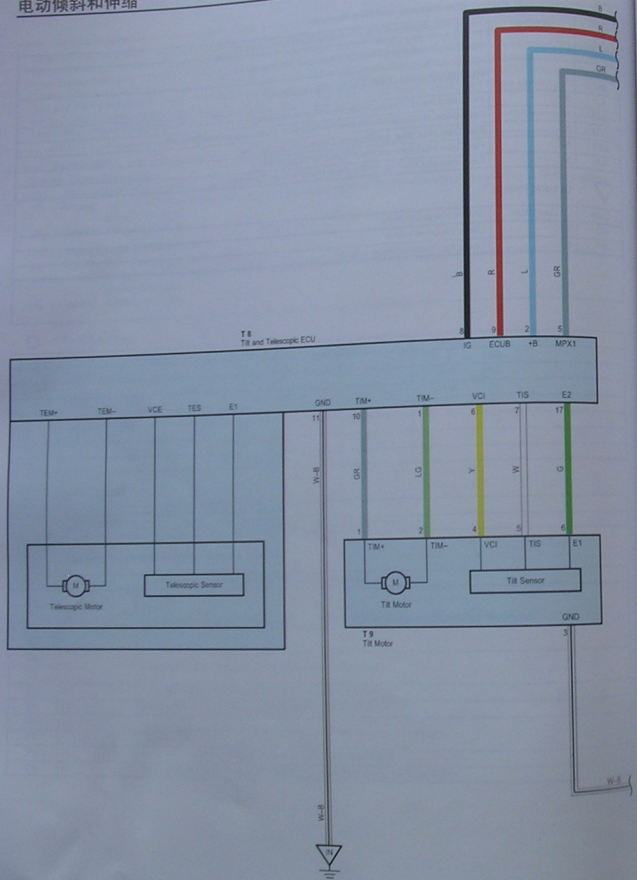
Code	See Page	Junction Block and Wire Harness (Connector Location)
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5C		
5D		
5G		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
DJ	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
DL	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PJ	40	Floor Wire and Front Passenger's Side J/B (Cowl Side Right)
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)

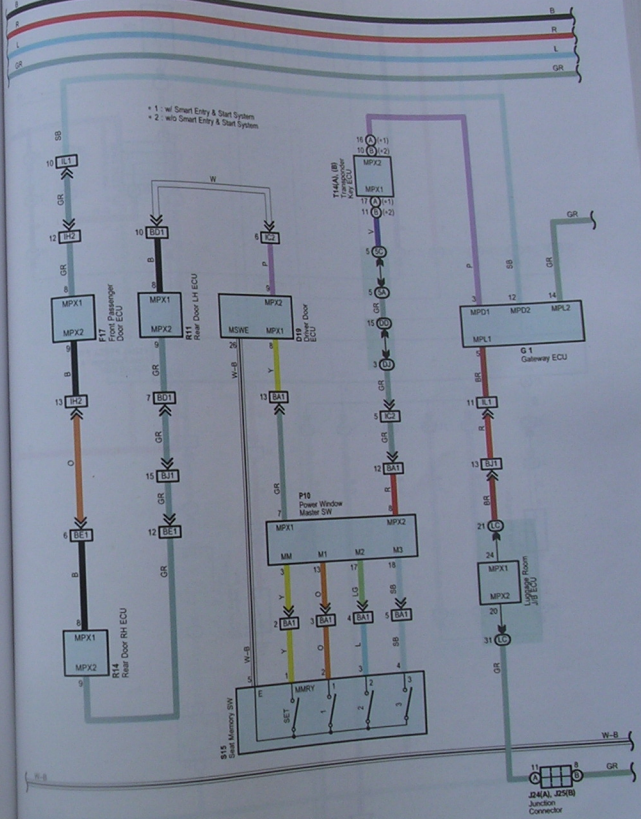
▢ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC1	78	Front Door LH Wire and Floor No.2 Wire (Left Kick Panel)
IC2		
IH1	80	Front Door RH Wire and Floor Wire (Right Kick Panel)
IH2		
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BA1	82	Front Door LH Wire and Front Door LH No.2 Wire (Inside of the Front Door LH)
BD1	82	Rear Door No.2 Wire and Floor No.2 Wire (Left Center Pillar)
BE1	82	Rear Door No.1 Wire and Floor Wire (Right Center Pillar)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

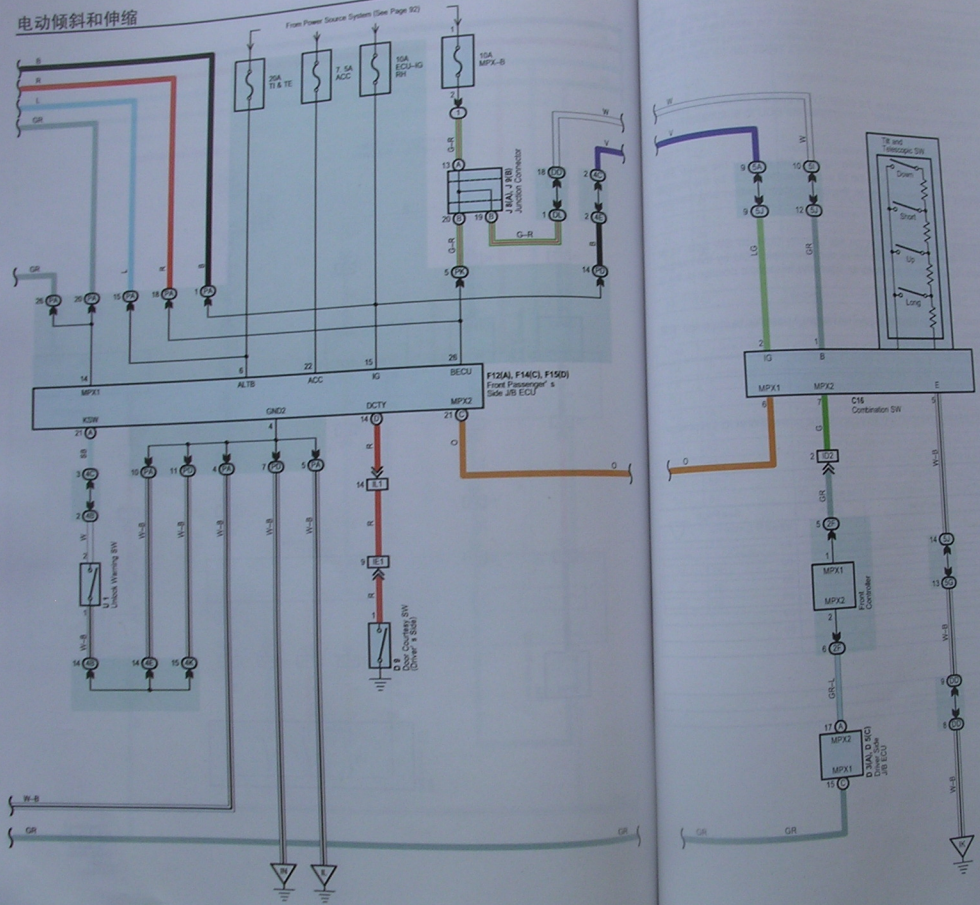
▽ : Ground Points

Code	See Page	Ground Points Location
BO	82	Under the Driver's Seat
BP	82	Under the Front Passenger's Seat


T 8
Tilt and Telescopic ECU
IG
ECUB
+B
MPX1
TEM+
TEM-
VCE
TES
E1
GND
TIM+
TIM-
VCI
TIS
E2
Telescopic Motor
Telescopic Sensor
T 9
Tilt Motor
Tilt Sensor
W-B
GR
LG
Y
W
G
R
L
B


* 1 : w/ Smart Entry & Start System
* 2 : w/o Smart Entry & Start System
F17
Front Passenger Door ECU
R11
Rear Door LH ECU
D19
Driver Door ECU
T14(A), (B)
Smart Entry & Start ECU
G 1
Gateway ECU
P10
Power Window Master SW
R14
Rear Door RH ECU
S15
Seat Memory SW
J24(A), J25(B)
Junction Connector
Luggage Room Light
MPX1
MPX2
MPD1
MPD2
MPL1
MPL2
MSWE
MM
M1
M2
M3
MMRY
SET
W-B
GR
B
R
L
W
Y
G
LG
O
P
SB
BR

电动倾斜和伸缩


From Power Source System (See Page 92)
25A
11 & TE
7.5A
ACC
15A
ECU-IG
NO.1
15A
MPX-B
J 8(A), J 9(B)
Junction Connector
F12(A), F14(C), F15(D)
Front Passenger's Side J/B ECU
BECU
MPX1
MPX2
ALTB
ACC
IG
KSW
GND2
DCTY
Unlock Warning SW
D 8
Door Courtesy SW
(Driver's Side)
C16
Combination SW
Front Controller
D 9(A), D 10(B)
Driver's Side J/B ECU
Tilt and Telescopic SW
Down
Short
Long
W-B
GR

电动倾斜和伸缩

System Outline

This system provides the automatic tilt and telescopic mechanisms using the motor drive and ECU control, allowing variable steering movement in the back and forth, and vertical directions. This makes it possible to set the steering to the desired steering position and move the steering to a position where the driver can easily get off the vehicle, allowing easier seating. Additionally, by linking the power seat, an optimal driving position corresponding to the driver's needs can be stored into the memory.

1. Auto Return Operation

When the ignition key is inserted into the key cylinder (Ignition SW type) or the power SW is pushed (Power SW type), the signal is input to the tilt and telescopic ECU by the multiplex communication. This activates the ECU to automatically return the steering to the position set before the ignition key has been removed.

2. Auto Away Operation

When the ignition key is turned from ON to OFF and removed from the key cylinder (Ignition SW type) or the power SW is pushed from IG ON to OFF position (Power SW type), the signal is input to the tilt and telescopic ECU by the multiplex communication. This activates the ECU to automatically move the steering to the top tilt step position and maximum telescopic retract position.

3. Manual Operation

If the tilt and telescopic SW is operated when the ignition key is inserted in the key cylinder (Ignition SW type) or the electrical key is inserted in the key slot (Power SW type), the signal is sent to the tilt and telescopic ECU by the multiplex communication. As a result of that, the tilt and telescopic ECU controls the motor to adjust the telescopic position or the tilt position at will.

4. Driving Position Memory Function

The pulse signals detected by the tilt and telescopic sensors are input to the ECU. This makes it possible to store and recall the desired driving position by the multiplex communication.

Service Hints

T8 Tilt and Telescopic ECU

2, 9–Ground : Always approx. 12 volts
8–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
11–Ground : Always continuity

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
C16		66	F17		71	R14		72
D3	A	67	G1		67	S15		73
D5	C	67	J8	A	68	T8		69
D9		70	J9	B	68	T9		69
D19		70	J24	A	71	T14	A	69
F12	A	67	J25	B	71		B	69
F14	C	67	P10		72	U1		69
F15	D	67	R11		72			

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2F	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
4B	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4C		
4E		
4K		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5C		
5G		
5I		
5J		
DD	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DJ	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
DL	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
LC	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)

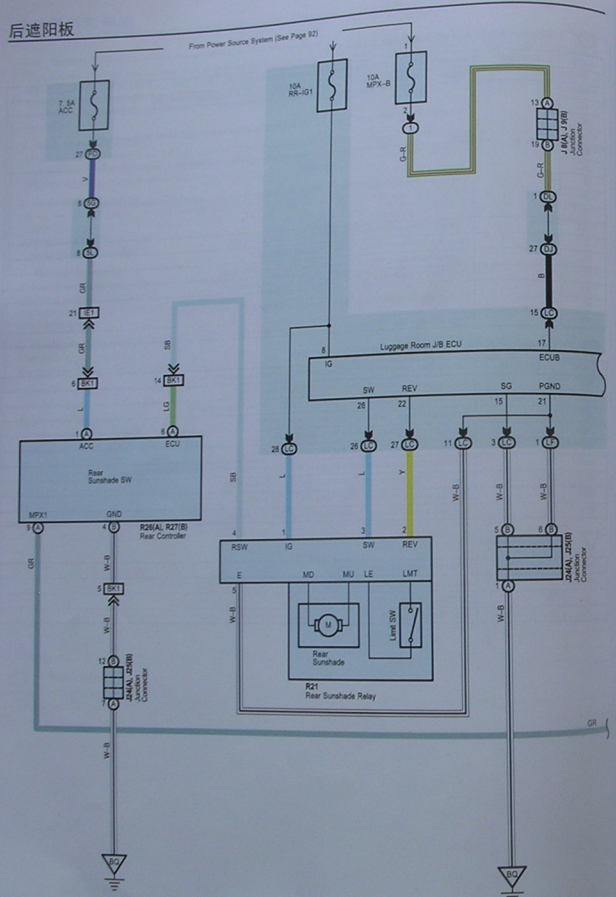
□ : Connector Joining Wire Harness and Wire Harness

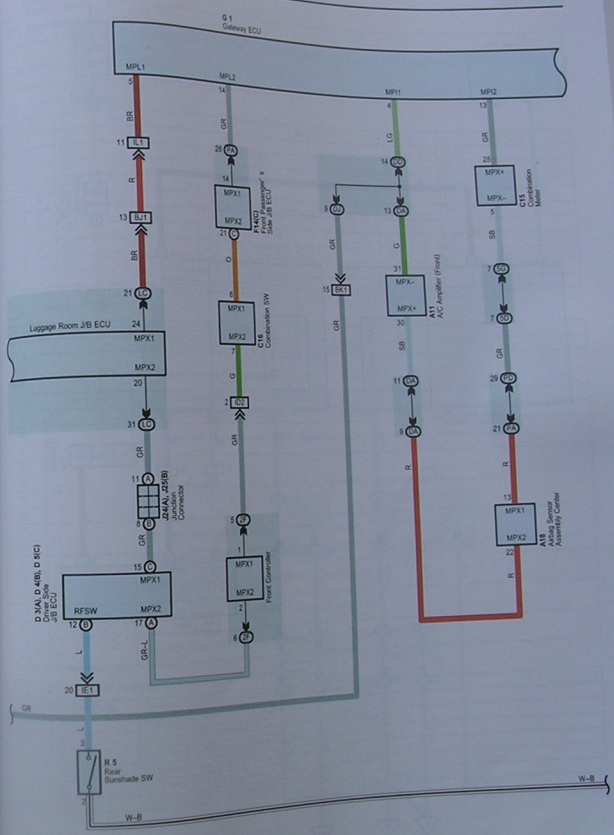
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	78	Front Door LH Wire and Floor No.2 Wire (Left Kick Panel)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IE1	78	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
IH2	80	Front Door RH Wire and Floor Wire (Right Kick Panel)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BA1	82	Front Door LH Wire and Front Door LH No.2 Wire (Inside of the Front Door LH)
BD1	82	Rear Door No.2 Wire and Floor No.2 Wire (Left Center Pillar)
BE1	82	Rear Door No.1 Wire and Floor Wire (Right Center Pillar)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

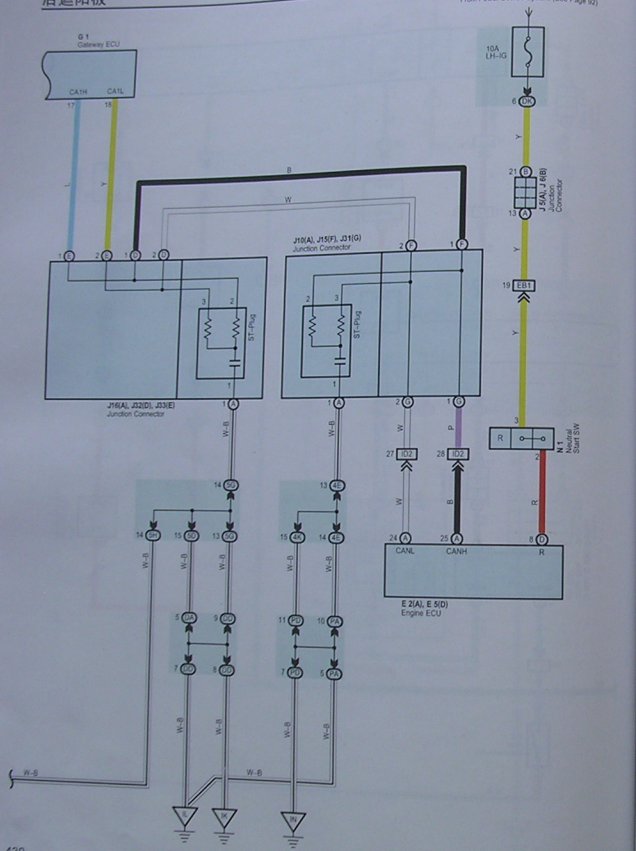
▽ : Ground Points

Code	See Page	Ground Points Location
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH

后遮阳板


From Power Source System (See Page 92)
7.5A ACC
10A RR-IG1
10A MPX-B
J/B(A), J/B(B) Junction Connector
Luggage Room J/B ECU
IG
ECUB
SW
REV
SG
PGND
ACC
ECU
Rear Sunshade SW
MPX1
GND
R26(A), R27(B) Rear Controller
RSW
IG
SW
REV
E
MD
MU
LE
LMT
Limit SW
Rear Sunshade
R21 Rear Sunshade Relay
J24(A), J25(B) Junction Connector
J24(A), J25(B) Junction Connector
BR
GR
W-B
L
R
Y
SB
LG
BK1
IE1
BJ1
BG


G1 Gateway ECU
MPL1
MPL2
MPI1
MPI2
Luggage Room J/B ECU
MPX1
MPX2
J24(A), J25(B) Junction Connector
D7(A), D4(B), D5(C) Driver Side J/B ECU
RFSW
Front Controller
P14(C) Front Passenger's Side J/B ECU*1, *2
C16 Combination SW
C15 Combination Meter
MPX+
MPX-
AC Amplifier (Front)
M8 Airbag Sensor Assembly Center
R5 Rear Sunshade SW
GR
W-B
BR
R
L
G
LG
SB
BK1
IE1
BJ1
BG



Service Hints

R21 Rear Sunshade Relay

1–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

5–Ground : Always continuity

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A11	66	G1	67	J31 G	58, 68
A18	66	J5 A	64	J32 D	60, 68
C15	66	J6 B	64	J33 E	60, 68
C16	66	J8 A	68	N1	64
D3 A	67	J9 B	68	R5	68
D4 B	67	J10 A	58, 68	R21	72
D5 C	67	J15 F	58, 68	R26 A	75
E3 A	63	J16 A	60, 68	R27 B	75
E5 D	63	J24 A	71		
F14 C	67	J25 B	71		

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2F	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
4E	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4K		
5D	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5G		
5H		
5L		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
DJ	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
DK	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
DL		
LC	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
LF		
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		

□ : Connector Joining Wire Harness and Wire Harness

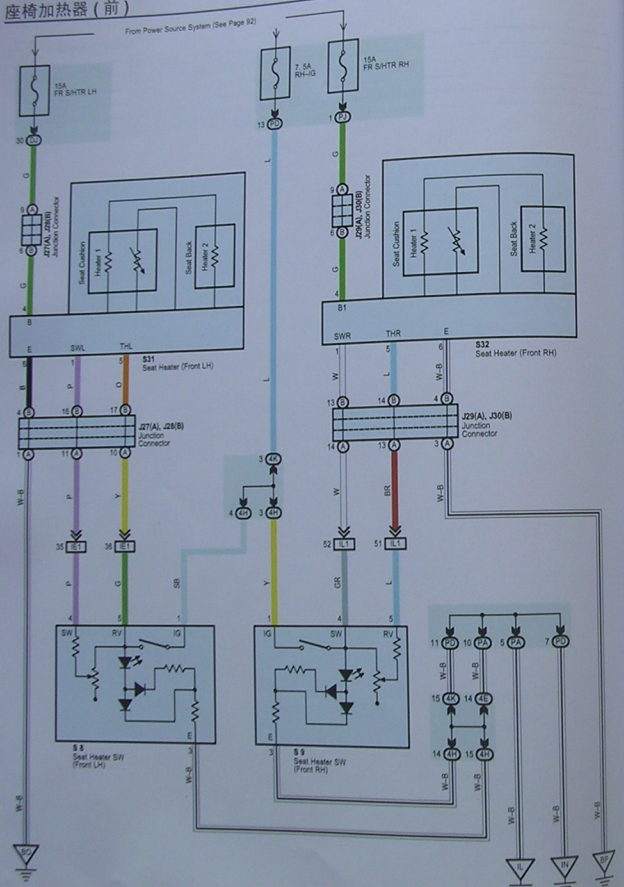
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	76	Engine Room Main Wire and Engine Wire (Inside of the ECU Box)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IE1	78	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BJ1	84	Instrument Panel Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)
BK1	88	Floor Wire and Floor No.2 Wire and Floor No.2 Wire (Back the Rear Seat LH)
		Rear Seat RH No.2 Wire and Floor No.2 Wire (Back the Rear Seat LH)

后遮阳板

▽ : **Ground Points**

Code	See Page	Ground Points Location
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH
BQ	82	Rear Floor Partition Panel LH

座椅加热器（前）



Service Hints

S31, S32 Seat Heater (Front LH), (Front RH)

4–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

6–Ground : Always continuity

S8, S9 Seat Heater SW (Front LH), (Front RH)

5–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

3–Ground : Always continuity

○ : Parts Location

Code		See Page	Code		See Page	Code	See Page
J27	A	74	J30	B	74	S31	74
J28	B	74	S8		69	S32	74
J29	A	74	S9		69		

▢ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
4E 4H 4K	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
DJ	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
PA PD	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PJ	40	Floor Wire and Front Passenger's Side J/B (Cowl Side Right)

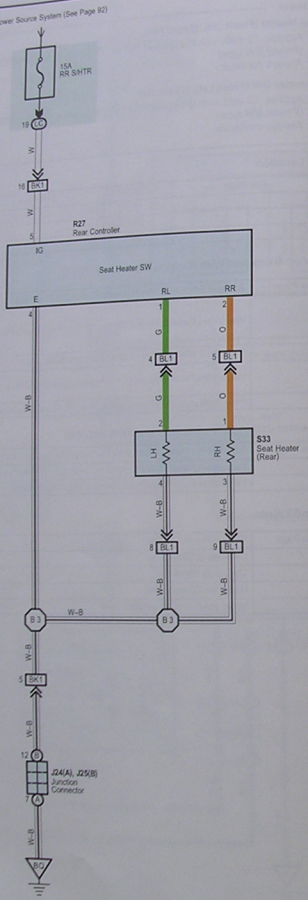
▢ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	78	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)

▽ : Ground Points

Code	See Page	Ground Points Location
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH
BO	82	Under the Driver's Seat
BP	82	Under the Front Passenger's Seat

椅加热器(后)



Service Hints

R27 Rear Controller

5–Ground : Approx. 12 volts with the Ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

4–Ground : Always continuity

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
J24 A	71	R27	75		
J25 B	71	S33	75		

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
LC	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)

□ : Connector Joining Wire Harness and Wire Harness

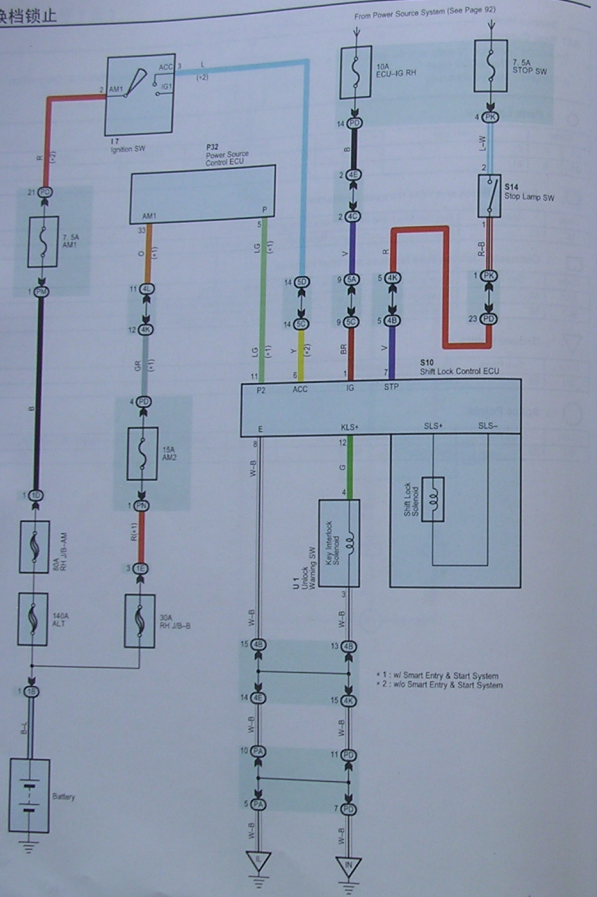
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BK1	88	Rear Seat RH No.2 Wire and Floor No.2 Wire (Back the Rear Seat LH)
BL1	88	Rear Seat RH No.2 Wire and Rear Seat LH No.2 Wire (Back the Rear Seat RH)

▽ : Ground Points

Code	See Page	Ground Points Location
BQ	82	Rear Floor Partition Panel LH

⬡ : Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B3	88	Rear Seat RH No.2 Wire			



System Outline

1 Shift Lock Mechanism

If the brake pedal is depressed with the ignition SW set at ON position (Ignition SW type) or the power SW set at IG ON position (Power SW type) set at ON (The stop lamp SW is on), the shift lock control ECU is activated, allowing the driver to change the shift lever to a position other than the P position.

2 Key Interlock Mechanism

When the ignition SW is turned to the ON or ACC position (Ignition SW type) or the power SW at IG ON or ACC ON position (Power SW type) and the shift lever is at a position other than the P position, the shift lock control ECU is activated to flow the current into the key interlock solenoid. This inhibits to turn the ignition SW from the ACC position to the OFF position (Ignition SW type) or power SW from the ACC ON position to the OFF position (Power SW type).

Service Hints

S10 Shift Lock Control ECU

6–Ground : Approx. 12 volts with the ignition SW at ON or ACC position (Ignition SW type) or with the power SW at IG ON or ACC ON position (Power SW type)

1–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

8–Ground : Always continuity

11–Ground : Approx. 12 volts with the power SW at IG ON or ACC ON position

○ : Parts Location

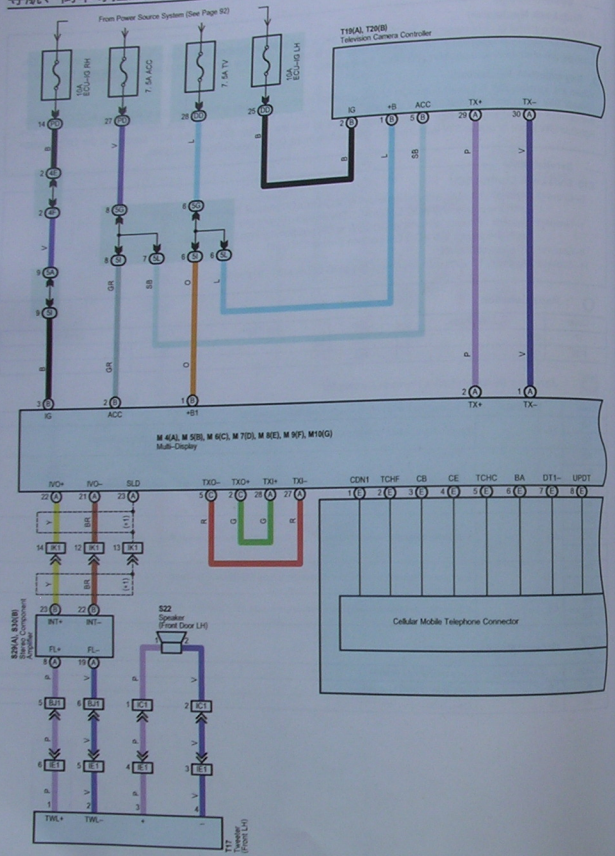
Code	See Page	Code	See Page	Code	See Page
I7	67	S10	69	U1	69
P32	68	S14	69		

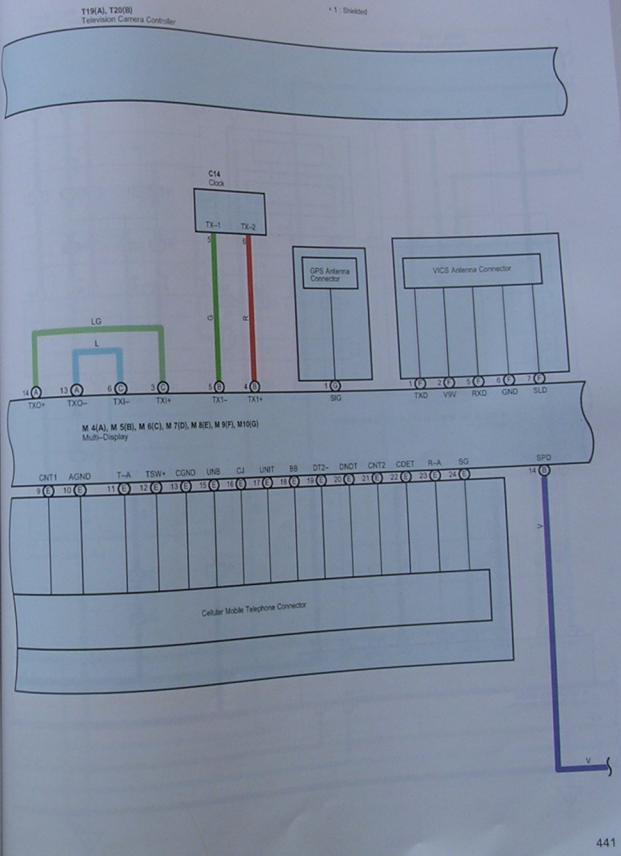
▢ : Junction Block and Wire Harness Connector

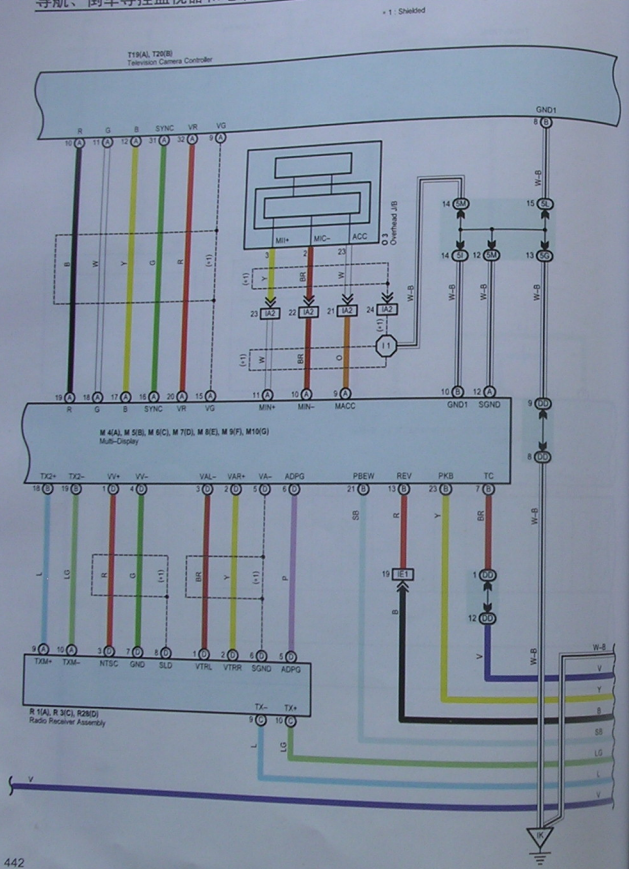
Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	23	Engine Room Main Wire and Engine Room J/B No.1 (Near the Front Right Suspention Tower)
1D		
4B	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4C		
4E		
4K		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5C		
5D		
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)
PM		

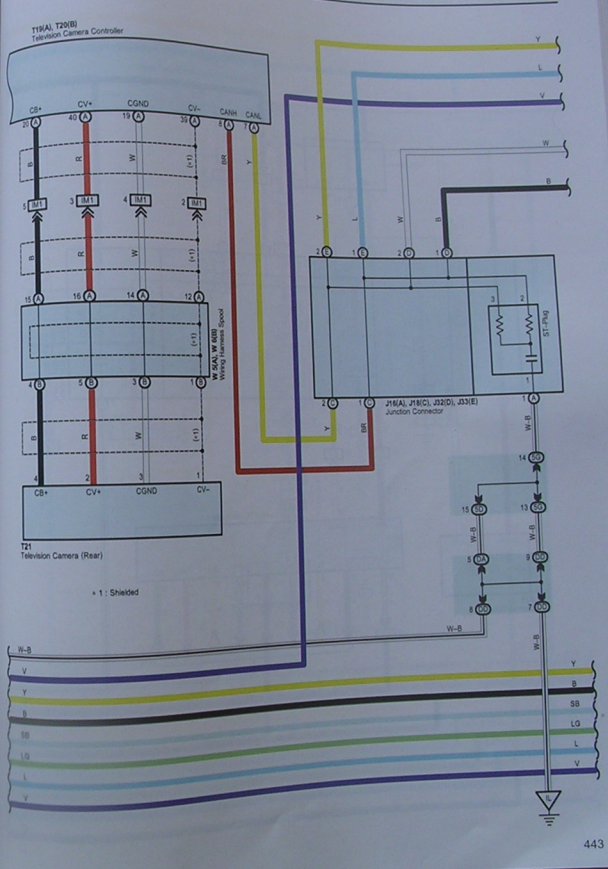
▽ : Ground Points

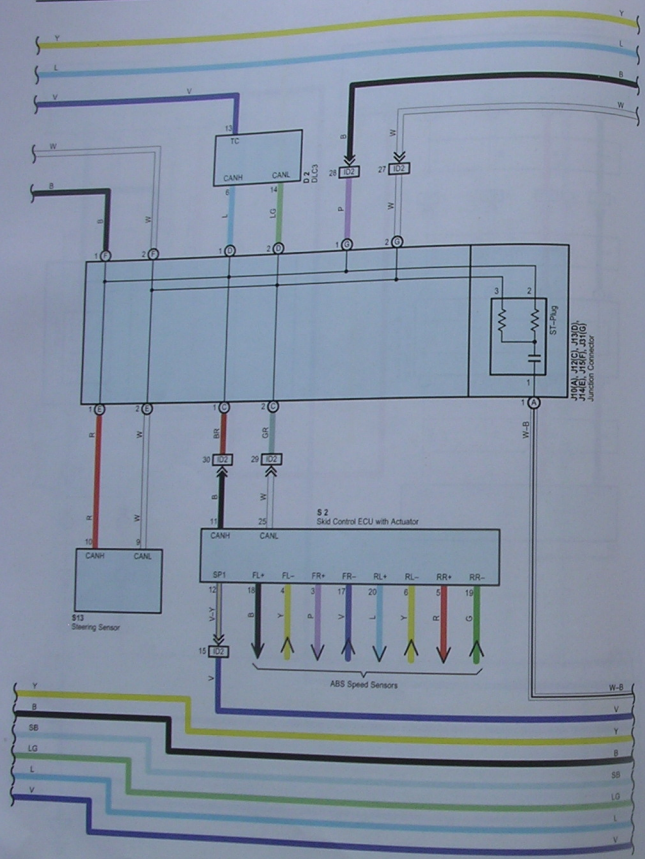
Code	See Page	Ground Points Location
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH

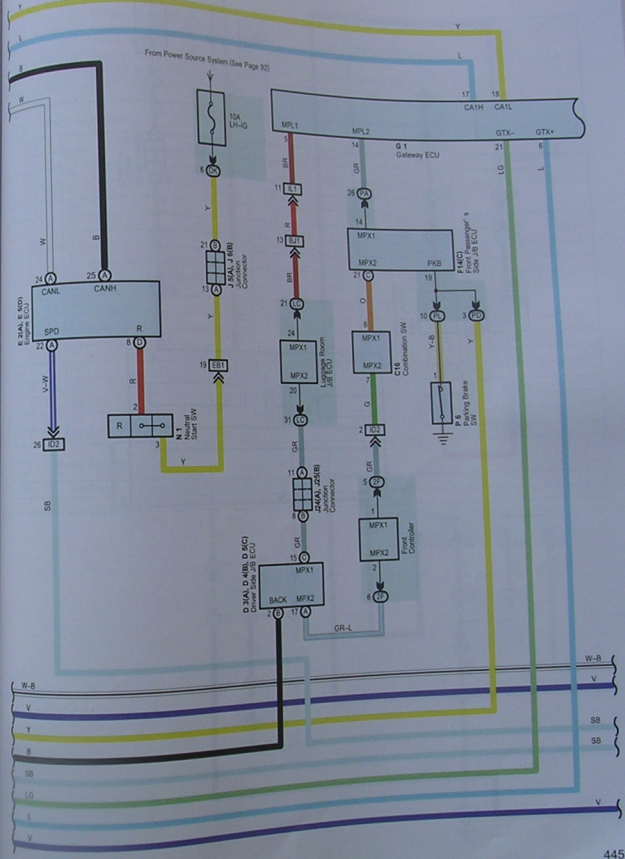

From Power Source System (See Page 92)
10A ECU-IG RH
7.5A ACC
7.5A TV
10A ECU-IG LH
T19(A), T20(B)
Television Camera Controller
IG
+B
ACC
TX+
TX-
M 4(A), M 5(B), M 6(C), M 7(D), M 8(E), M 9(F), M10(G)
Multi-Display
VO+
VO-
SLD
TXO-
TXO+
TXI+
TXI-
CDN1
TCHF
CB
CE
TCHC
BA
DT1-
UPDT
Cellular Mobile Telephone Connector
S22
Speaker
(Front Door LH)
T17
Tweeter
(Front LH)

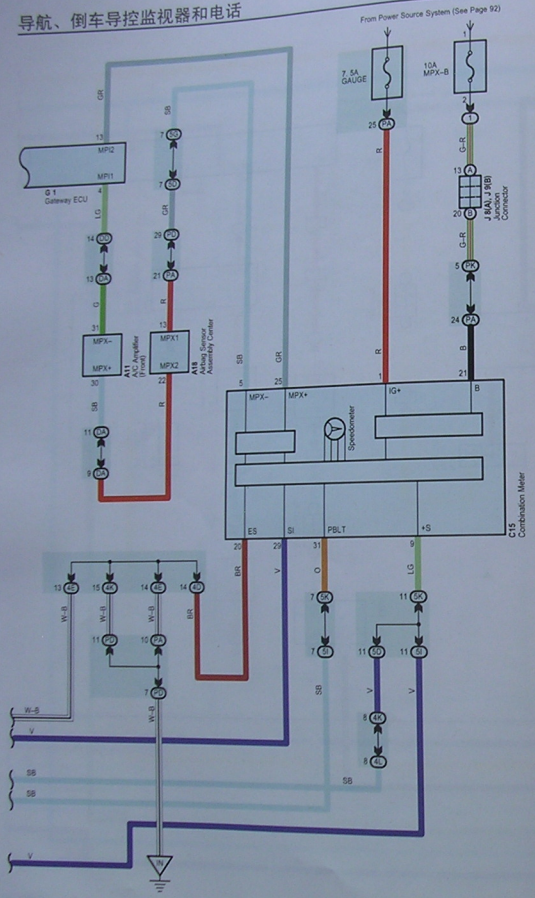

T19(A), T20(B)
Television Camera Controller
* 1 : Shielded
C14
Clock
TX-1
TX-2
GPS Antenna Connector
VICS Antenna Connector
LG
L
TXO+
TXO-
TXI-
TXI+
TX1-
TX1+
SIG
TXD
VSV
RXD
GND
SLD
M 4(A), M 5(B), M 6(C), M 7(D), M 8(E), M 9(F), M10(G)
Multi-Display
CNT1
AGND
T-A
TSW+
CGND
UNB
CJ
UNIT
BB
DT2-
DNDT
CNT2
CDET
R-A
SG
SPD
Cellular Mobile Telephone Connector


* 1 : Shielded
T19(A), T20(B)
Television Camera Controller
GND1
R
G
B
SYNC
VR
VG
MII+
MIC-
ACC
MIN+
MIN-
MACC
GND1
SGND
M 4(A), M 5(B), M 6(C), M 7(D), M 8(E), M 9(F), M10(G)
Multi-Display
TX2+
TX2-
VV+
VV-
VAL-
VAR+
VA-
ADPG
PBEW
REV
PKB
TC
TXM+
TXM-
NTSC
GND
SLD
VTRL
VTRR
SGND
ADPG
R 1(A), R 3(C), R26(D)
Radio Receiver Assembly
TX-
TX+
D 3
Overhead J/B
W-B


T19(A), T20(B)
Television Camera Controller
CB+
CV+
CGND
CV-
CANH
CANL
W 30(A), W 60(B)
Wiring Harness Spool
T21
Television Camera (Rear)
J16(A), J16(C), J32(D), J33(E)
Junction Connector
ST-Plug
* 1 : Shielded
W-B


TC
DLC3
CANH
CANL
ST-Plug
Main J/B (J1(C), J1(D), J1(E), J1(F), J1(G))
Junction Connector
S2
Skid Control ECU with Actuator
SP1
FL+
FL-
FR+
FR-
RL+
RL-
RR+
RR-
ABS Speed Sensors
S13
Steering Sensor


From Power Source System (See Page 92)
10A
LH-IG
CA1H
CA1L
G1
Gateway ECU
MPL1
MPL2
GTX-
GTX+
E,2(A), E,5(D)
Engine ECU
CANL
CANH
SPD
J,5(A), J,6(B)
Junction Connector
N1
Neutral Start SW
Luggage Room J/B (LJ1(C))
MPX1
MPX2
BACK
D,2(A), D,4(B), D,5(C)
Driver Side J/B
C16
Combination SW
F,4(C)
Front Passenger's Side J/B ECU
P8
Parking Brake SW
Front Controller



Service Hints

M4 (A), M5 (B) Multi-Display

(B) 1–Ground : Always approx. 12 volts

(B) 3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

(B) 2–Ground : Approx. 12 volts with the ignition SW at ON or ACC position (Ignition SW type) or with the power SW at IG ON or ACC ON position (Power SW type)

(A) 12, (B) 10–Ground : Always continuity

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A11	66	J12 C	58, 68	N1	64
A18	66	J13 D	58, 68	O3	71
C14	66	J14 E	58, 68	P6	68
C15	66	J15 F	58, 68	R1 A	68
C16	66	J16 A	60, 68	R3 C	68
D2	67	J18 C	60, 68	R28	68
D3 A	67	J24 A	71	S2	65
D4 B	67	J25 B	71	S13	69
D5 C	67	J31 G	58, 68	S22	73
E2 A	63	J32 D	60, 68	S29 A	73
E5 D	63	J33 E	60, 68	S30 B	73
F14 C	67	M4 A	68	T17	69
G1	67	M5 B	68	T19 A	69
J5 A	64	M6 C	68	T20 B	69
J6 B	64	M7 D	68	T21	73
J8 A	68	M8 E	68	W5 A	73
J9 B	68	M9 F	68	W6 B	73
J10 A	58, 68	M10 G	68		

▢ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2F	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
4D	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4E		
4F		
4K		
4L		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5D		
5G		
5I		
5K		
5L		
5M		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
DK	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
LC	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)
PL		

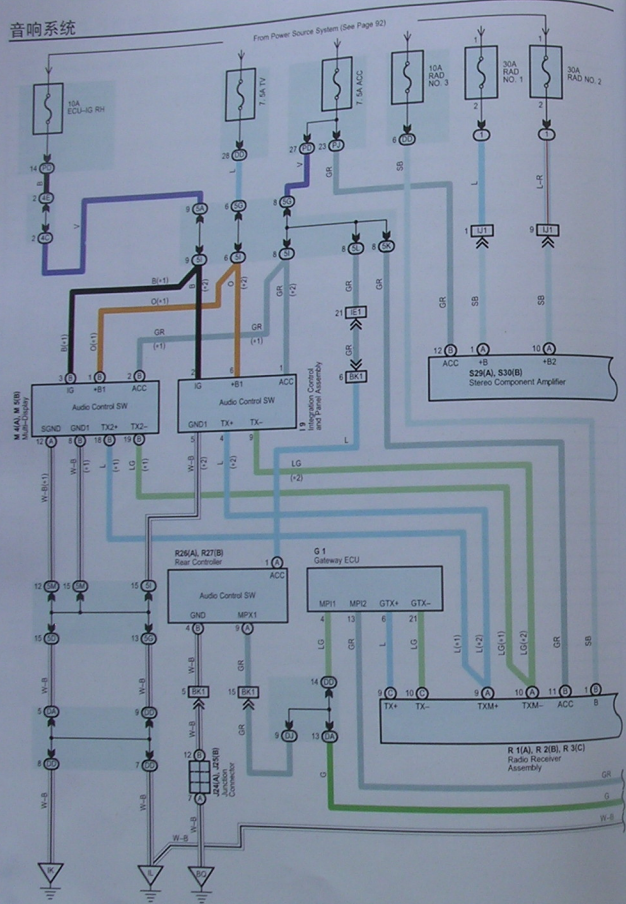
□ : Connector Joining Wire Harness and Wire Harness

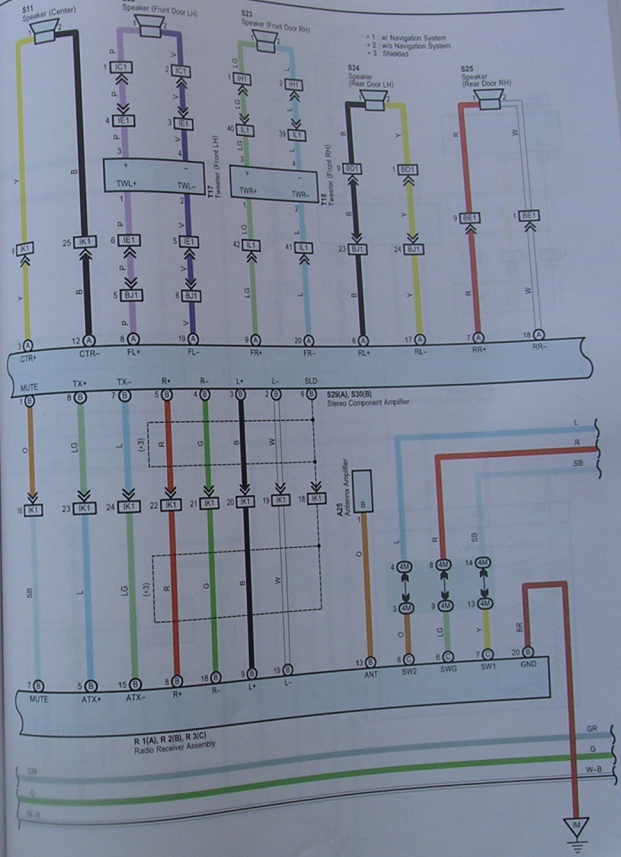
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	76	Engine Room Main Wire and Engine Wire (Inside of the ECU Box)
IA2	78	Instrument Panel Wire and Roof Wire (Left Side of the Instrument Panel)
IC1	78	Front Door LH Wire and Floor No.2 Wire (Left Kick Panel)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IE1	78	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
II2	80	Instrument Panel Wire and Engine Room Main Wire (Right Kick Panel)
IK1	80	Instrument Panel Wire and Floor Wire (Under the Rear Console)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
IM1	80	Instrument Panel Wire and Floor No.2 Wire (Under the Rear Console)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

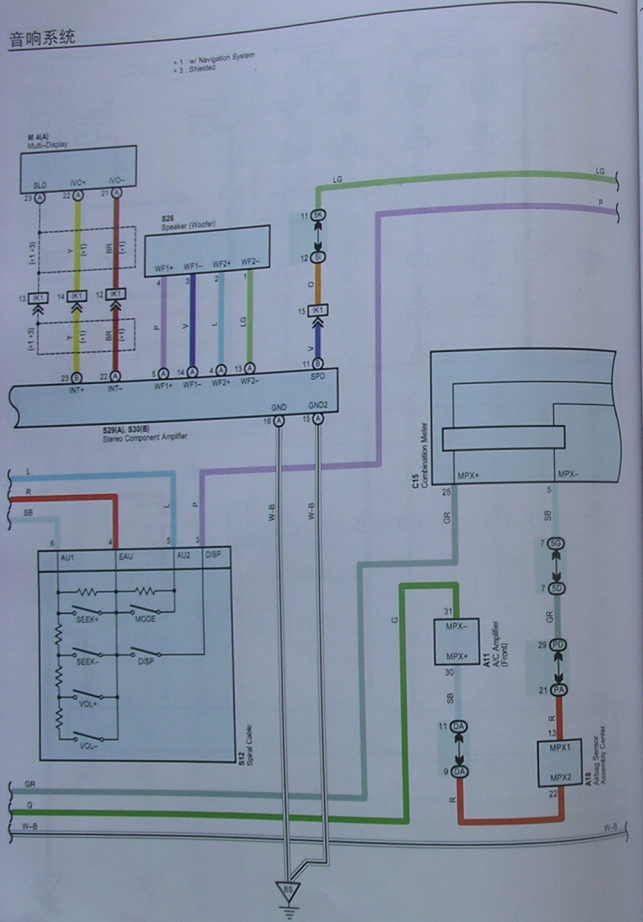
▽ : Ground Points

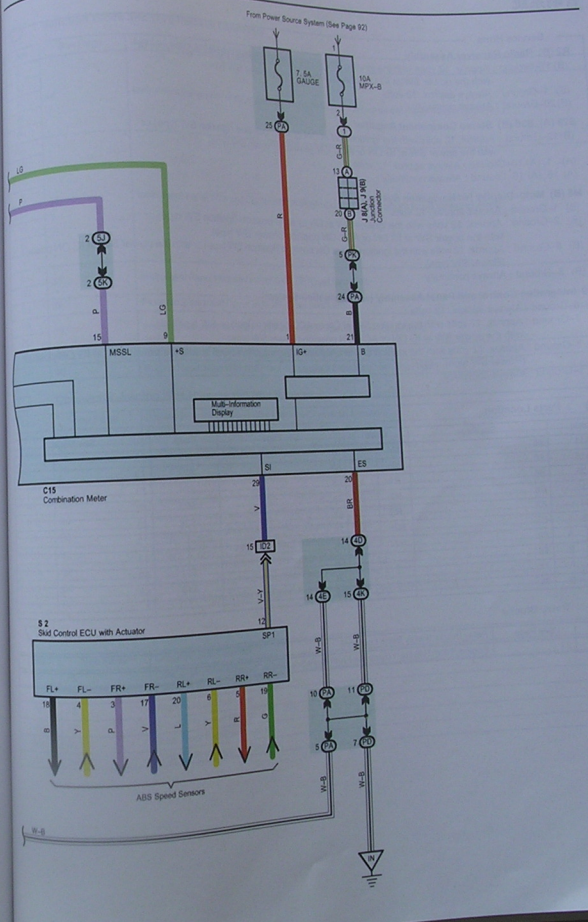
Code	See Page	Ground Points Location
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH

音响系统


From Power Source System (See Page 92)
10A ECU-IG RH
7.5A TV
7.5A ACC
10A RAD NO. 3
30A RAD NO. 1
30A RAD NO. 2
M 4(A), M 5(B) Multiplex Network
Audio Control SW
Integration Control and Tuner Assembly
I 9
S29(A), S30(B) Stereo Component Amplifier
R26(A), R27(B) Rear Controller
G 1 Gateway ECU
R 1(A), R 2(B), R 3(C) Radio Receiver Assembly
JA(A), JA(B) Junction Connector


S11 Speaker (Center)
S22 Speaker (Front Door LH)
S23 Speaker (Front Door RH)
* 1 : w/ Navigation System
* 2 : w/o Navigation System
* 3 : Shielded
S24 Speaker (Rear Door LH)
S25 Speaker (Rear Door RH)
T17 Tweeter (Front LH)
T18 Tweeter (Front RH)
S29(A), S30(B) Stereo Component Amplifier
A25 Antenna Amplifier
R 1(A), R 2(B), R 3(C) Radio Receiver Assembly


* 1 : w/ Navigation System
* 3 : Shielded
M 4(A)
Multi-Display
SLD
IVO+
IVO–
INT+
INT–
S26
Speaker (Woofer)
WF1+
WF1–
WF2+
WF2–
S29(A), S30(B)
Stereo Component Amplifier
GND
GND2
BPD
LG
P
C15
Combination Meter
MPX+
MPX–
S12
Space Cable
AU1
EAU
AU2
DISP
SEEK+
SEEK–
MODE
DISP
VOL+
VOL–
A11
A/C Amplifier
(Front)
A18
Airbag Sensor
Assembly Center
MPX1
MPX2
GR
G
W–B
B6


From Power Source System (See Page 92)
7.5A
GAUGE
10A
MPX–B
J (A), J (B)
Junction
Connector
MSSL
+S
IG+
B
Multi-Information
Display
C15
Combination Meter
SI
ES
S 2
Skid Control ECU with Actuator
SP1
FL+
FL–
FR+
FR–
RL+
RL–
RR+
RR–
ABS Speed Sensors
W–B

Service Hints

R2 (B) Radio Receiver Assembly
(B) 11–Ground : Approx. 12 volts with the ignition SW at ON or ACC position (Ignition SW type) or with the power SW at IG ON or ACC ON position (Power SW type)
(B) 1–Ground : Always approx. 12 volts
(B) 20–Ground : Always continuity

S29 (A), S30 (B) Stereo Component Amplifier
(B) 12–Ground : Approx. 12 volts with the ignition SW at ON or ACC position (Ignition SW type) or with the power SW at IG ON or ACC ON position (Power SW type)
(A) 1, (A) 10–Ground : Always approx. 12 volts
(A) 15, (A) 16–Ground : Always continuity

M5 (B) Multi–Display (w/ Navigation System)
(B) 1–Ground : Always approx. 12 volts
(B) 2–Ground : Approx. 12 volts with the ignition SW at ON or ACC position (Ignition SW type) or with the power SW at IG ON or ACC ON position (Power SW type)
(B) 3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
(B) 8–Ground : Always continuity

I9 Integration Control and Panel Assembly (w/o Navigation System)
6–Ground : Always approx. 12 volts
1–Ground : Approx. 12 volts with the ignition SW at ON or ACC position (Ignition SW type) or with the power SW at IG ON or ACC ON position (Power SW type)
2–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
5–Ground : Always continuity

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
A11		66	M4	A	68	S22		73
A18		66	M5	B	68	S23		73
A25		66	R1	A	68	S24		73
C15		66	R2	B	68	S25		73
G1		67	R3	C	68	S26		73
I9		67	R26	A	75	S29	A	73
J8	A	68	R27	B	75	S30	B	73
J9	B	68	S2		65	T17		69
J24	A	71	S11		69	T18		69
J25	B	71	S12		69			

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

⬡ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
4C	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4D		
4E		
4K		
4M		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5D		
5G		
5I		
5J		
5K		
5L		
5M		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
DJ	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PJ	40	Floor Wire and Front Passenger's Side J/B (Cowl Side Right)
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)

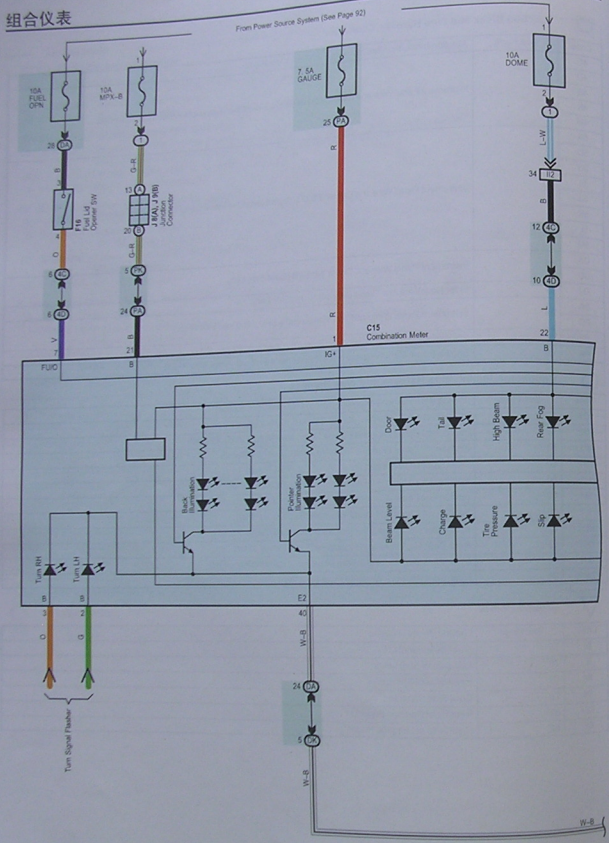
□ : Connector Joining Wire Harness and Wire Harness

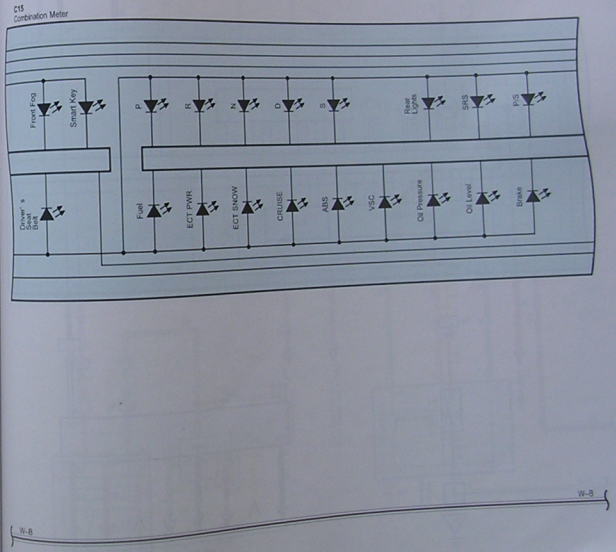
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC1	78	Front Door LH Wire and Floor No.2 Wire (Left Kick Panel)
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IE1	78	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
IH1	80	Front Door RH Wire and Floor Wire (Right Kick Panel)
IJ1	80	Engine Room Main Wire and Floor Wire (Right Kick Panel)
IK1	80	Instrument Panel Wire and Floor Wire (Under the Rear Console)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BD1	82	Rear Door No.2 Wire and Floor No.2 Wire (Left Center Pillar)
BE1	82	Rear Door No.1 Wire and Floor Wire (Right Center Pillar)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)
BK1	88	Rear Seat RH No.2 Wire and Floor No.2 Wire (Back the Rear Seat LH)

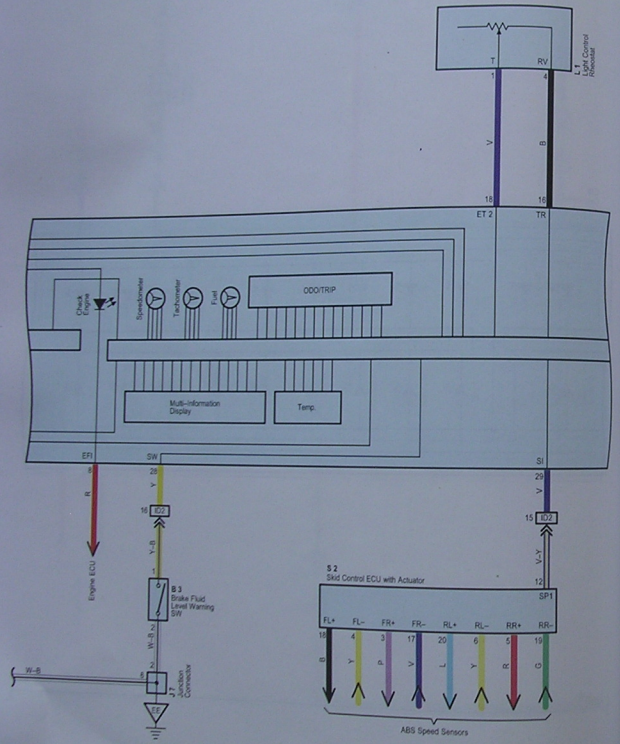
▽ : Ground Points

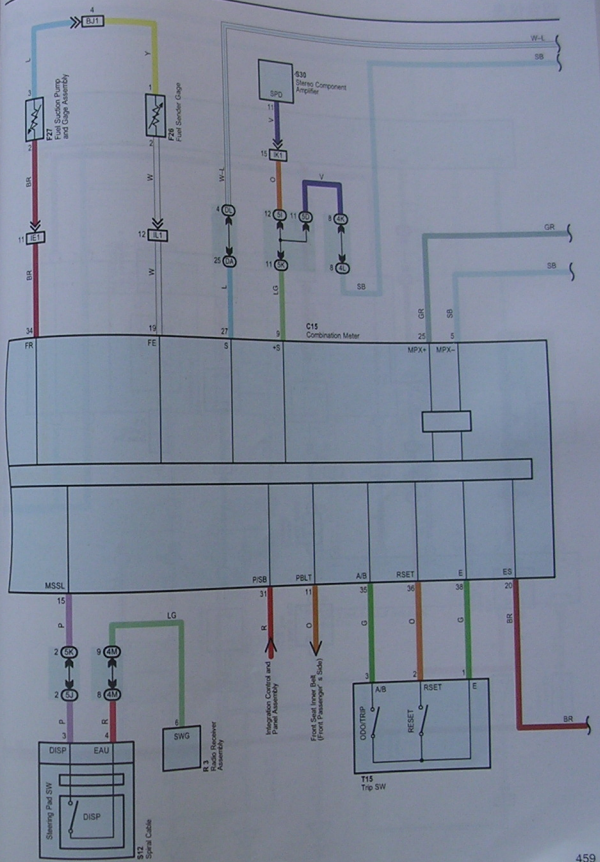
Code	See Page	Ground Points Location
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IM	78	Right Side of Shift Lever
IN	78	Cowl Side Panel RH
BQ	82	Rear Floor Partition Panel LH
BS	82	Right Side of Luggage Room

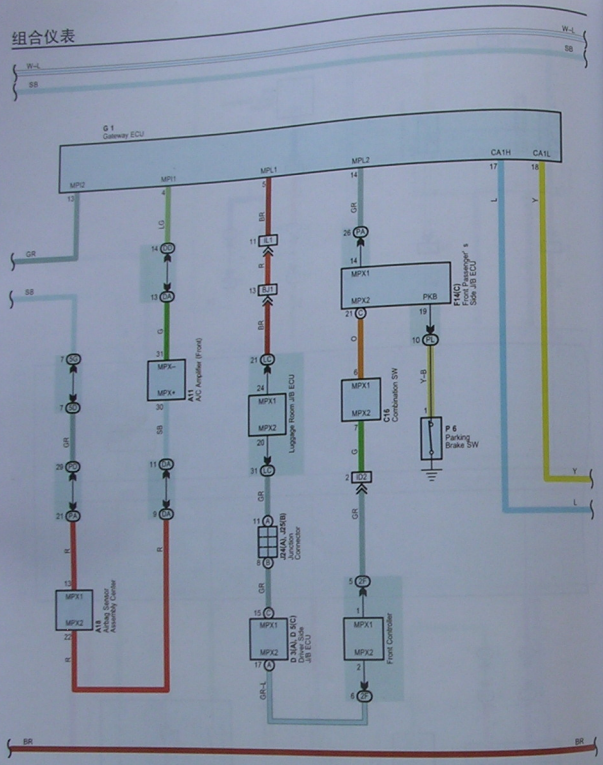
组合仪表

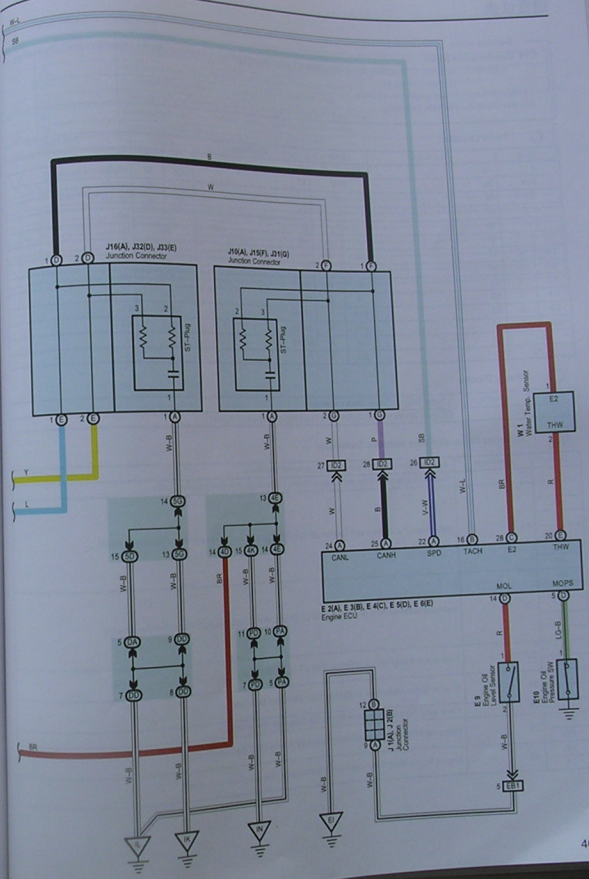

From Power Source System (See Page 92)
10A FUEL OPN
12A MPX-B
7.5A GAUGE
10A DOME
Door Lock Control SW
Junction Connector
C15 Combination Meter
IG+
FUIC
E2
Turn RH
Turn LH
Back Illumination
Pointer Illumination
Door
Tail
High Beam
Rear Fog
Beam Level
Charge
Tire Pressure
Slip
Turn Signal Flasher
W-B


C15
Combination Meter
Front Fog
Smart Key
P
R
N
D
S
Rear Lights
SRS
PS
Driver's Seat Belt
Fuel
ECT PWR
ECT SNOW
CRUISE
ABS
VSC
Oil Pressure
Oil Level
Brake
W-B


L7
Level Control Rheostat
T
RV
ET 2
TR
Check Engine
Speedometer
Tachometer
Fuel
ODO/TRIP
Multi-information Display
Temp
EFI
SW
SI
Engine ECU
E02
B3
Brake Fluid Level Warning SW
J7
Splice Connector
W-B
S2
Skid Control ECU with Actuator
SP1
FL+
FL–
FR+
FR–
RL+
RL–
RR+
RR–
ABS Speed Sensors


E30
Stereo Component Amplifier
SRD
T2
Fuel Suction Pump and Gage Assembly
F28
Fuel Sender Gage
C15
Combination Meter
FR
FE
+S
MPX+
MPX–
MSSL
P/SB
PBLT
A/B
RSET
E
ES
Integration Control and Panel Assembly
Front Seat Inner Belt (Front Passenger's Side)
T15
Trip SW
ODO/TRIP
RESET
DISP
EAU
Steering Pad SW
S12
Spiral Cable
R3
SWG
Receiver Assembly


G 1
Gateway ECU
MPI2
MPI1
MPL1
MPL2
CA1H
CA1L
W-L
SB
GR
LG
BR
L
Y
A11
A/C Amplifier (Front)
MPX-
MPX+
A18
Steering Sensor
Assembly Center
MPX1
MPX2
J24(A), J24(B)
Junction
Connector
D 3(A), D 8(C)
Luggage Room
J/B ECU
Luggage Room J/B ECU
CH6
Combination SW
P 6
Parking
Brake SW
P14(C)
Front Passenger's
Side J/B ECU
Front Controller


J16(A), J32(D), J33(E)
Junction Connector
J19(A), J15(F), J31(G)
Junction Connector
ST-Plug
B
W
W-L
SB
Y
L
BR
W-B
CANL
CANH
SPD
TACH
E2
THW
MOL
MOPS
E 2(A), E 3(B), E 4(C), E 5(D), E 6(E)
Engine ECU
W1
Water Temp. Sensor
E8
Engine Oil
Level Sensor
E10
Engine Oil
Pressure SW
J14(A), J38
Junction
Connector

组合仪表

Service Hints

C15 Combination Meter

1–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
21, 22–Ground : Always approx. 12 volts
20, 40–Ground : Always continuity

○ : Parts Location

Code		See Page
A11		66
A18		66
B3		62
C15		66
C16		66
D3	A	67
D5	C	67
E2	A	63
E3	B	63
E4	C	63
E5	D	63
E6	E	63
E9		63
E10		63

Code		See Page
F14	C	67
F16		67
F26		71
F27		71
G1		67
J1	A	64
J2	B	64
J7		64
J8	A	68
J9	B	68
J10	A	58, 68
J15	F	58, 68
J16	A	60, 68
J24	A	71

Code		See Page
J25	B	71
J31	G	58, 68
J32	D	60, 68
J33	E	60, 68
L1		68
P6		68
R3		68
S2		65
S12		69
S30		73
T15		69
W1		65

▭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

▭ : Junction Block and Wire Harness Connector

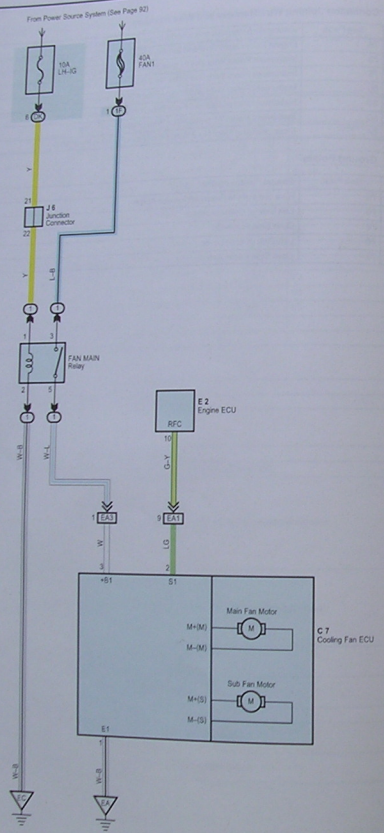
Code	See Page	Junction Block and Wire Harness (Connector Location)
2F	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
4C	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4D		
4E		
4K		
4L		
4M		
5D	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5G		
5I		
5J		
5K		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
DK	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
DL		
LC	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PK	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)
PL		

▭ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	76	Engine Room Main Wire and Engine Wire (Inside of the ECU Box)
I02	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IE1	78	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
I2	80	Instrument Panel Wire and Engine Room Main Wire (Right Kick Panel)
IK1	80	Instrument Panel Wire and Floor Wire (Under the Rear Console)
IL1	80	Instrument Panel Wire and Floor Wire (Right Kick Panel)
BJ1	84	Floor Wire and Floor No.2 Wire (Rear Floor Partition Panel RH)

▽ : Ground Points

Code	See Page	Ground Points Location
EE	76	Rear Side of the Front Left Fender Apron
EI	76	Left Side of Cylinder Head
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH



System Outline

System Operation

If the ignition SW is turned to ON, the current from the LH–IG fuse is sent to the coil side and the FAN MAIN relay is turned to ON. Then the current flows to TERMINAL 3 of the cooling fan ECU. At the same time, the conditions of the A/C SW, A/C pressure sensor, water temp. sensor and engine rotation are sent to the TERMINAL 2 as signals from the TERMINAL RFC of the engine ECU. As a result of that, the cooling fan ECU continuously controls the rotation of the fan motor and keeps a balance between the cooling efficiency and silentness with the optimal fan rotation.

Service Hints

C7 Cooling Fan ECU

3–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

1–Ground : Always continuity

: Parts Location

Code	See Page	Code	See Page	Code	See Page
C7	62	E2	63	J6	64

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)

: Junction Block and Wire Harness Connector

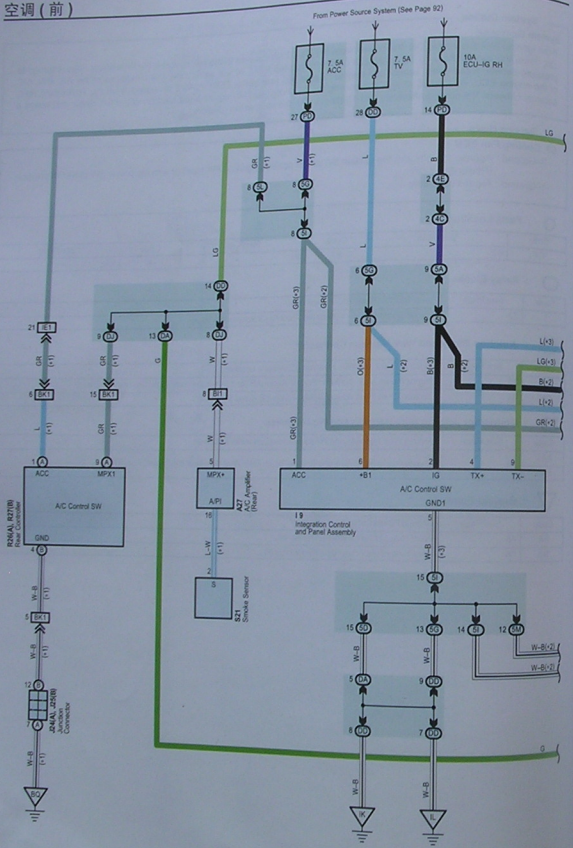
Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	23	Engine Room Main Wire and Engine Room J/B No.1 (Near the Front Right Suspention Tower)
DK	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)

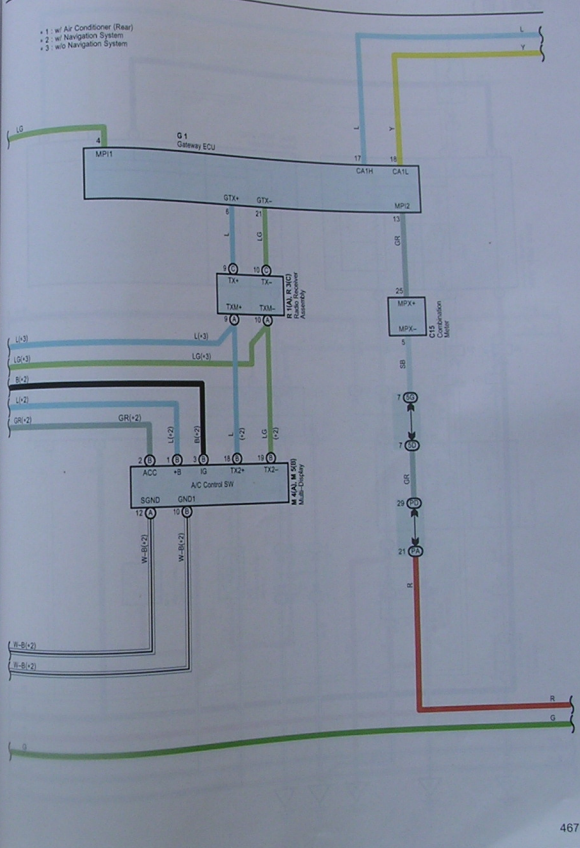
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	76	Engine Room No.2 Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.2)
EA3		

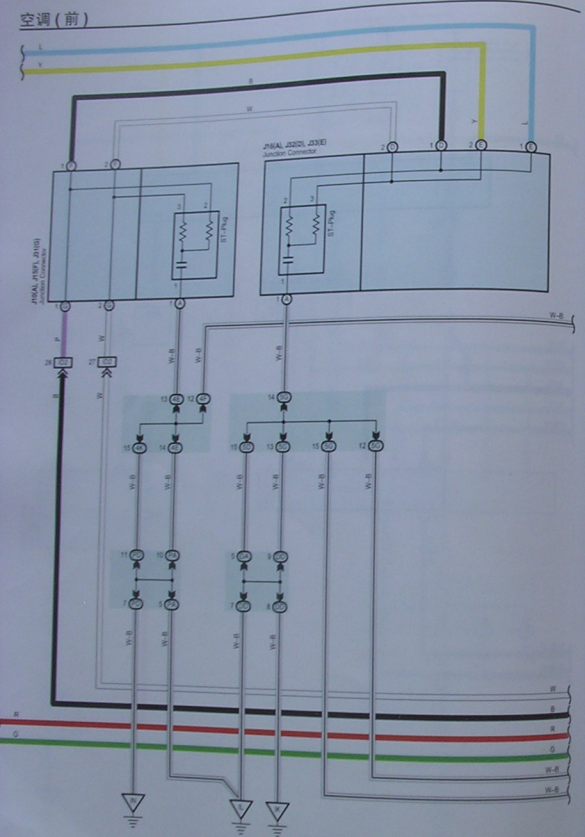
: Ground Points

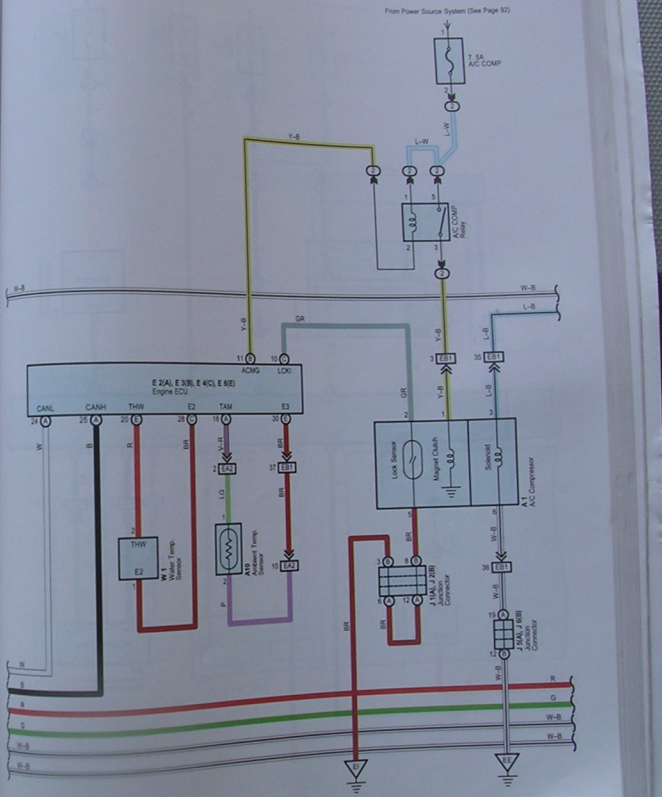
Code	See Page	Ground Points Location
EA	76	Front Side of Front Right Fender Apron
EC	76	Rear Side of the Front Right Fender Apron

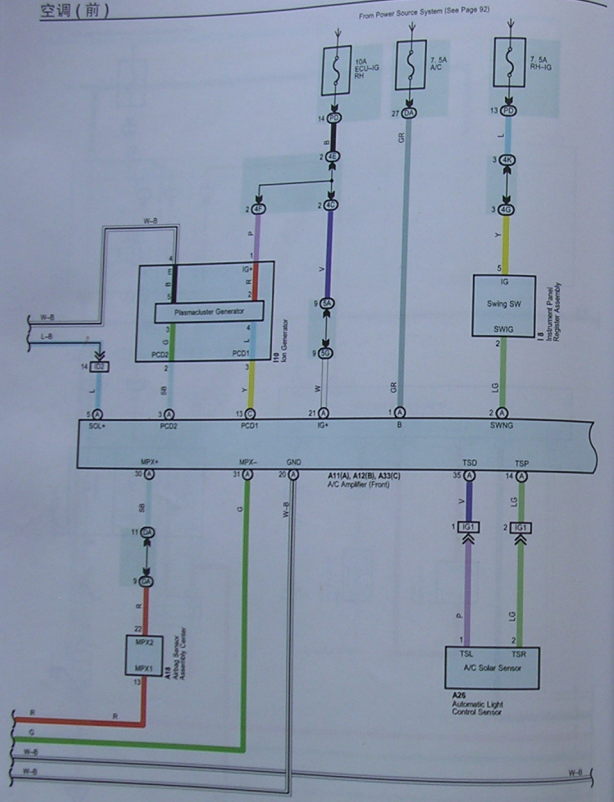

From Power Source System (See Page 92)
7.5A ACC
7.5A TV
10A ECU-IG RH
A/C Control SW
ACC
+B1
IG
TX+
TX-
GND1
Integration Control and Panel Assembly
A/C Control Assembly
A/C Amplifier (Rear)
Smoke Sensor
Junction Connector

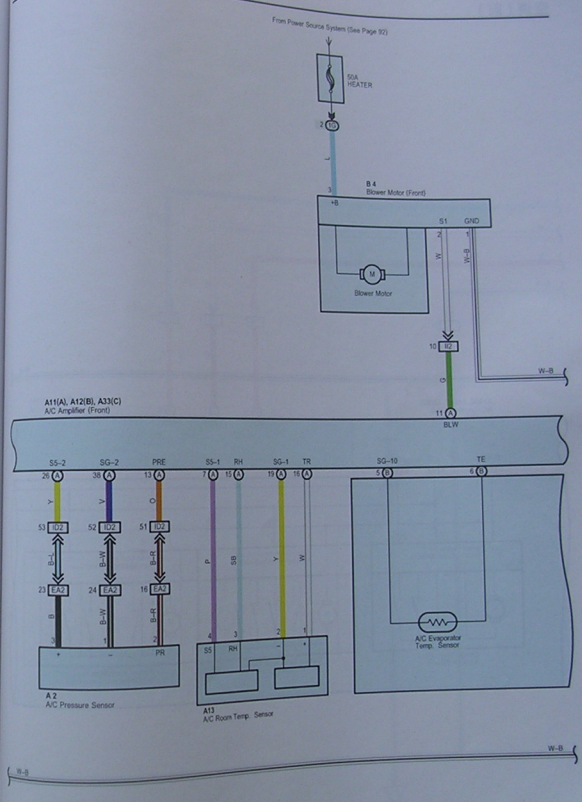

*1 : w/ Air Conditioner (Rear)
*2 : w/ Navigation System
*3 : w/o Navigation System
G 1
Gateway ECU
MPI:1
MPI:2
CA1H
CA1L
GTX+
GTX-
M 43AL M 39D
Radio Receiver Assembly
C15
Clock Combination Meter
A/C Control SW
ACC
+B
IG
TX2+
TX2-
SGND
GND1
M 43AL M 50B
Multi-display

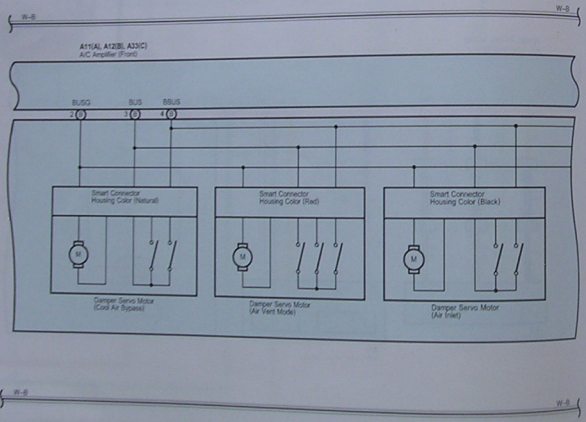
空调（前）

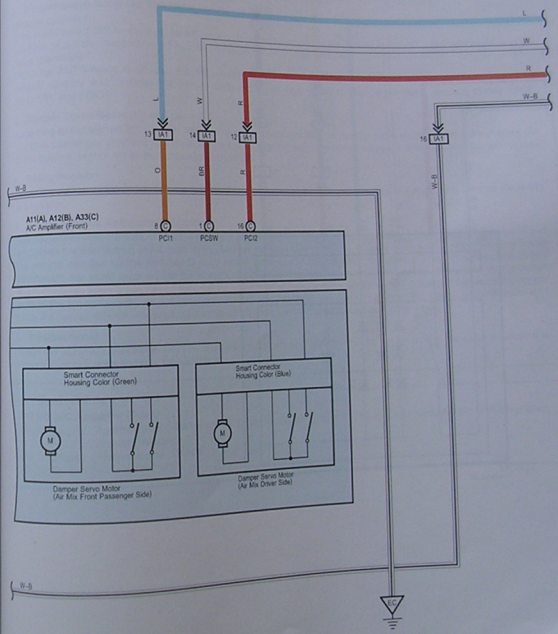

J9(AL, J52(D), J53(E)
Junction Connector
ST1 Plug
J9(AL, J10(F), J11(G)
Junction Connector
W-B
W
R
G


From Power Source System (See Page 92)
7.5A
A/C COMP
A/C COMP Relay
Y-B
L-W
L-B
GR
W-B
E 2(AL, E 3(B), E 4(C), E 6(E)
Engine ECU
ACMG
LOCK
CANL
CANH
THW
E2
E3
TAM
W 1
Water Temp. Sensor
A/8
Ambient Temp. Sensor
Lock Sensor
Magnet Clutch
Solenoid
A1
A/C Compressor
J1(AL) J2(B)
Junction Connector
J9(AL, J8(B)
Junction Connector

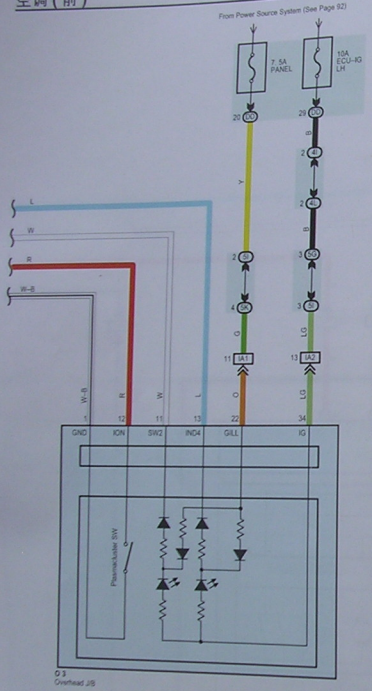

From Power Source System (See Page 92)
10A ECU-IG RH
7.5A A/C
7.5A RH-IG
Plasmacluster Generator
PCD2
PCD1
I19 Ion Generator
IG+
IG
Swing SW
SWIG
I8 Instrument Panel Register Assembly
SOL+
PCD2
PCD1
IG+
B
SWNG
MPX+
MPX-
GND
A11(A), A12(B), A33(C) A/C Amplifier (Front)
TSD
TSP
TSL
TSR
A/C Solar Sensor
A25 Automatic Light Control Sensor
A18 Airbag Sensor Assembly Center
W-B
L-B
R
G


From Power Source System (See Page 92)
50A HEATER
B 4 Blower Motor (Front)
+B
S1
GND
Blower Motor
BLW
W-B
A11(A), A12(B), A33(C) A/C Amplifier (Front)
S5-2
SG-2
PRE
S5-1
RH
SG-1
TR
SG-10
TE
A Z A/C Pressure Sensor
A13 A/C Room Temp. Sensor
A/C Evaporator Temp. Sensor
PR
S5
RH
W-B


W-B
W-B
A11(A), A12(B), A33(C)
A/C Amplifier (Front)
BUSG
BUS
BBUS
2
3
4
Smart Connector
Housing Color (Natural)
Smart Connector
Housing Color (Red)
Smart Connector
Housing Color (Black)
M
Damper Servo Motor
(Cold Air Bypass)
Damper Servo Motor
(Air Vent Mode)
Damper Servo Motor
(Air Inlet)
W-B
W-B


L
W
R
W-B
13
14
12
16
1A1
L
W
R
W-B
A11(A), A12(B), A33(C)
A/C Amplifier (Front)
8
1
16
PC1
PCSW
PC2
W-B
W-B
Smart Connector
Housing Color (Green)
Smart Connector
Housing Color (Blue)
M
Damper Servo Motor
(Air Mix Front Passenger Side)
Damper Servo Motor
(Air Mix Driver Side)
W-B

空调（前）



System Outline

1. Heater Blower Operation

Manual operation
When the blower speed is set to a certain level using the blower control SW, the A/C amplifier sends the signals to the blower control to control the blower motor speed.
Auto operation
When the AUTO SW is turned on, the A/C amplifier sends the signals from various sensors and temperature SW to the blower control to automatically control the blower motor speed.

2. Damper Servo Motor (Air Inlet) Control

(Manual operation)
If the FRESH/RECIRC select SW is operated, the A/C amplifier is controlled and the damper servo motor (Air inlet) works. As a result of that, the mode can be changed between the RECIRCULATED mode and the FRESH mode.

3. Damper Servo Motor (Air Vent Mode) Control

(Manual operation)
If the mode select SW is operated, the A/C amplifier is controlled to operate the damper servo motor (Air vent mode) and the positions of outlets change among FACE, BI–LEVEL, FOOT, FOOT/DEF and DEF.
(Auto operation)
When the AUTO mode is selected, the A/C amplifier selects the best position of the outlet according to the signals from various sensors and operates the damper servo motor (Air vent mode) to change the outlet position among FACE, BI–LEVEL and FOOT.

4. Damper Servo Motor (Air mix) Control

According to the signals from various sensors, the A/C amplifier operates the damper servo motors (Air mix driver side), (Air mix front passenger side) and sets the blowoff temperature to the most appropriate degree in order to adjust the temperature to the desired degree set by the temperature control SW.

5. Swing Register

When the A/C is at SWING mode, the A/C amplifier selects the center face grill direction and angle, and controls the swing grill resistor.

6. Neural Network Automatic A/C Control

The neural network consists of neurons of the input layer, the inner layer and the output layer. The neural network takes and processes the information of the input layers (Such as the outside temperature, quantity of sunlight, and temperature inside the vehicle decided by the switches or each sensor outputs) and outputs them to the inner layer. Based on the output information, the inner layer adjusts the strength of the connection between neurons and calculates its total as the output layers (Such as appropriate blowoff temperature, adjustment of the quantity of sunlight, ideal quantity of the wind, and control level of the blowoff mode). As a result of that, the A/C amplifier evaluates conditions under the various circumstances and helps the neural network memorize the ideal air conditioning detected to control A/C automatically.

7. Plasmacluster

When the plasmacluster SW is turn ON, plasmacluster ion are controlled so that the ion balance in the cabin is adjusted to close to that in forests and near the water falls.

Service Hints

A11 (A) A/C Amplifier (Front)

(A)21–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)
(A) 1–Ground : Always approx. 12 volts
(A)20–Ground : Always continuity

空调 (前)

○ : Parts Location

Code		See Page
A1		62
A2		62
A10		62
A11	A	66
A12	B	66
A13		66
A18		66
A26		66
A27		70
A33	C	66
B4		66
C15		66
E2	A	63
E3	B	63

Code		See Page
E4	C	63
E6	E	63
G1		67
I8		67
I9		67
I10		67
J1	A	64
J2	B	64
J5	A	64
J6	B	64
J10	A	58, 68
J15	F	58, 68
J16	A	60, 68
J24	A	71

Code		See Page
J25	B	71
J31	G	58, 68
J32	D	60, 68
J33	E	60, 68
M4	A	68
M5	B	68
O3		71
R1	A	68
R3	C	68
R26	A	75
R27	B	75
S21		73
W1		65

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	26	Engine Room R/B No.2 (Engine Compartment Left)

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1G	23	Engine Room Main Wire and Engine Room J/B No.1 (Near the Front Right Suspention Tower)
4C	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4E		
4F		
4G		
4I		
4K		
5A	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5D		
5G		
5I		
5K		
5L		
5M		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
DJ	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		

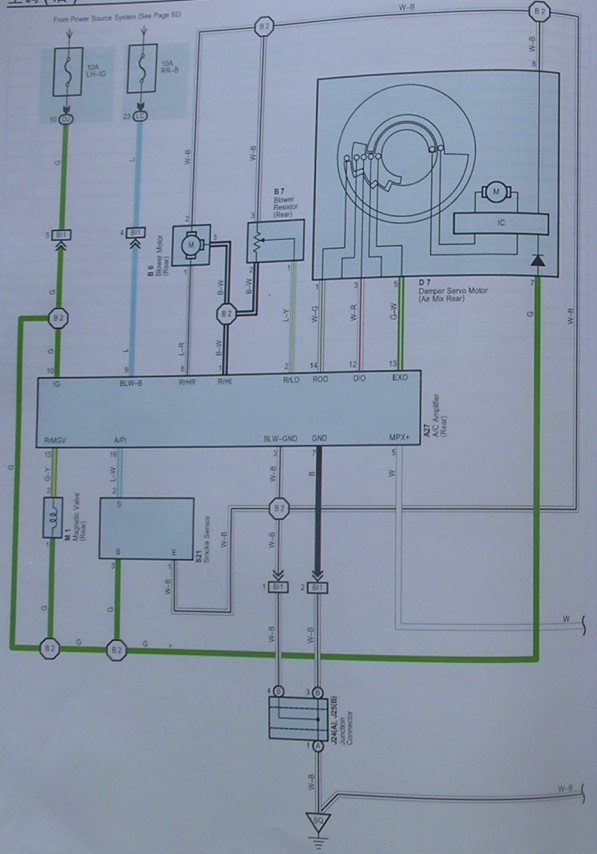
⬭ : Connector Joining Wire Harness and Wire Harness

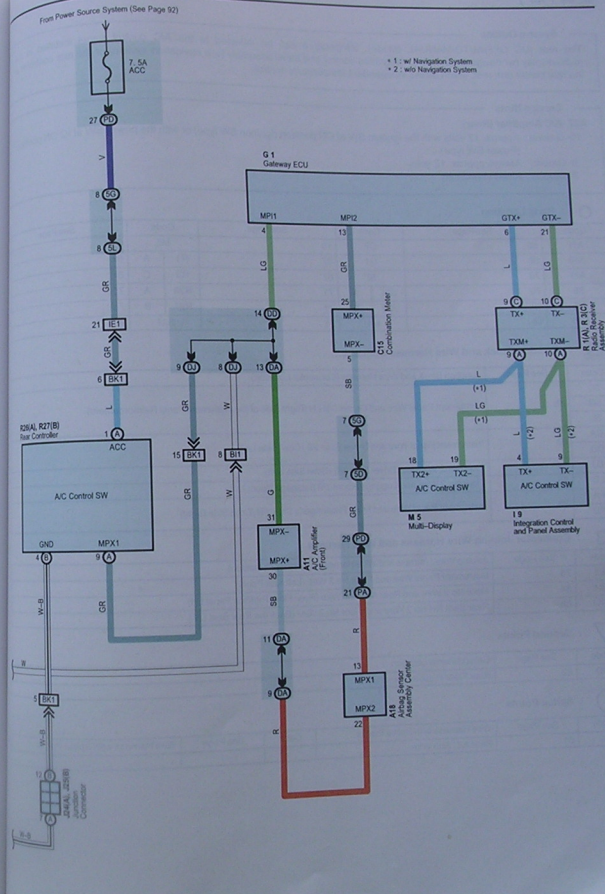
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA2	76	Engine Room No.2 Wire and Engine Room Main Wire (Inside of the Engine Room R/B No.2)
EB1	76	Engine Room Main Wire and Engine Wire (Inside of the ECU Box)
IA1	78	Instrument Panel Wire and Roof Wire (Left Side of the Instrument Panel)
IA2		
ID2	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IE1	78	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
IG1	80	Instrument Panel Wire and Instrument Panel No.2 Wire (Instrument Panel Center)
II2	80	Instrument Panel Wire and Engine Room Main Wire (Right Kick Panel)
BI1	84	Floor No.2 Wire and Rear A/C Sub Wire (Rear Floor Partition Panel LH)
BK1	88	Rear Seat RH No.2 Wire and Floor No.2 Wire (Back the Rear Seat LH)

▽ : Ground Points

Code	See Page	Ground Points Location
EC	76	Rear Side of the Front Right Fender Apron
EE	76	Rear Side of the Front Left Fender Apron
EI	76	Left Side of Cylinder Head
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IN	78	Cowl Side Panel RH
BQ	82	Rear Floor Partition Panel LH

空调(后)


From Power Source System (See Page 92)
10A LH-IG
10A RR-B
W-B
B 7 Blower Resistor (Rear)
B 6 Blower Motor (Rear)
M
IC
D 7 Damper Servo Motor (Air Mix Rear)
IG
BLW-B
RrHR
RrHI
RrLO
ROO
DIO
EXO
A27 A/C Amplifier (Rear)
RrMGV
APi
BLW-GND
GND
MPX+
M1 Magnetic Valve (Rear)
M21 Sensor Sensor
J24(AL,J24(B) Junction Connector


From Power Source System (See Page 92)
* 1 : w/ Navigation System
* 2 : w/o Navigation System
7 5A ACC
G 1 Gateway ECU
MPi1
MPI2
GTX+
GTX–
C15 Combination Meter
R 1(A),R 3(G) Radio Receiver Assembly
R26(A), R27(B) Rear Controller
ACC
A/C Control SW
GND
MPX1
A11 A/C Amplifier (Front)
A16 Airbag Sensor Assembly Center
MPX2
TX2+
TX2–
M 5 Multi-Display
I 9 Integration Control and Panel Assembly

空调(后)

System Outline

The rear A/C OFF/AUTO/MANUAL (Mode), temperature can be selected at the A/C control panel installed in the multi-display (w/ navigation system), integration control and panel assembly (w/o navigation system) or the rear controller in the rear center arm rest, which allows independent temperature control.

Service Hints

A27 A/C Amplifier (Rear)

10–Ground : Approx. 12 volts with the ignition SW at ON position (Ignition SW type) or with the power SW at IG ON position (Power SW type)

9–Ground : Always approx. 12 volts

7–Ground : Always continuity

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A11	66	D7	70	M5	68
A18	66	G1	67	R1 A	68
A27	70	I9	67	R3 C	68
B6	70	J24 A	71	R26 A	75
B7	70	J25 B	71	R27 B	75
C15	66	M1	71	S21	73

⬭ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
5D	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5G		
5L		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
DJ	34	Floor No.2 Wire and Driver Side J/B (Cowl Side Left)
LC	55	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		

□ : Connector Joining Wire Harness and Wire Harness

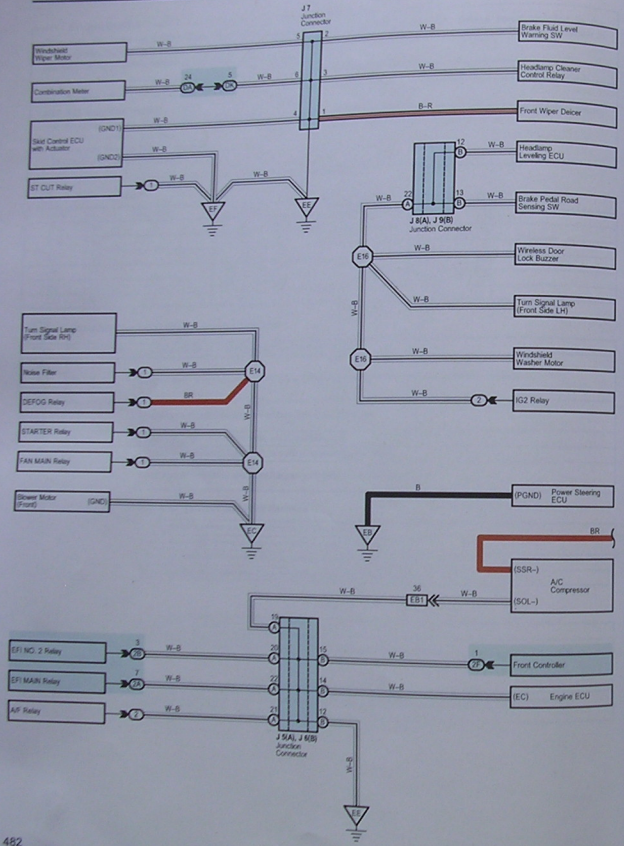
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	78	Instrument Panel Wire and Floor No.2 Wire (Left Kick Panel)
BI1	84	Floor No.2 Wire and Rear A/C Sub Wire (Rear Floor Partition Panel LH)
BK1	88	Rear Seat RH No.2 Wire and Floor No.2 Wire (Back the Rear Seat LH)

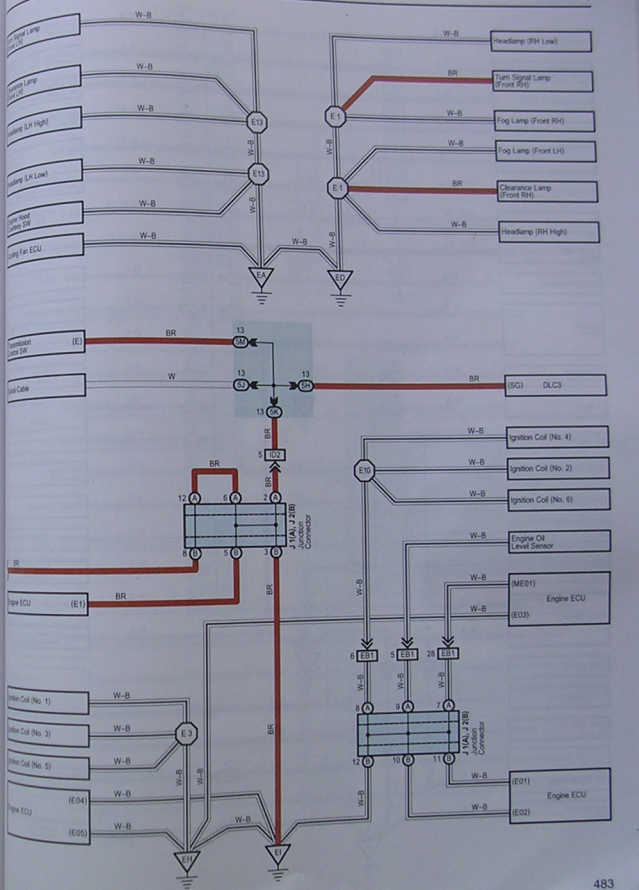
▽ : Ground Points

Code	See Page	Ground Points Location
BQ	82	Rear Floor Partition Panel LH

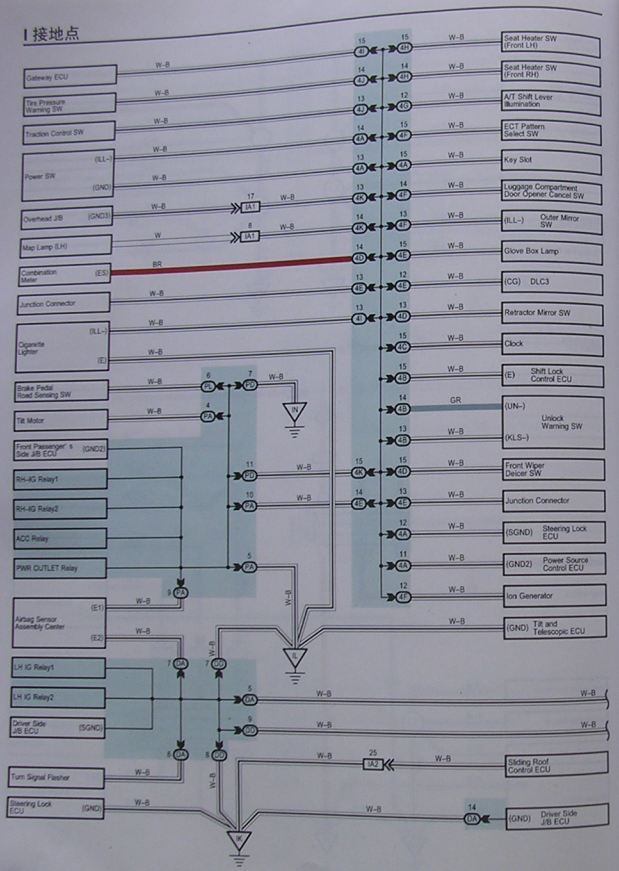
◯ : Splice Points

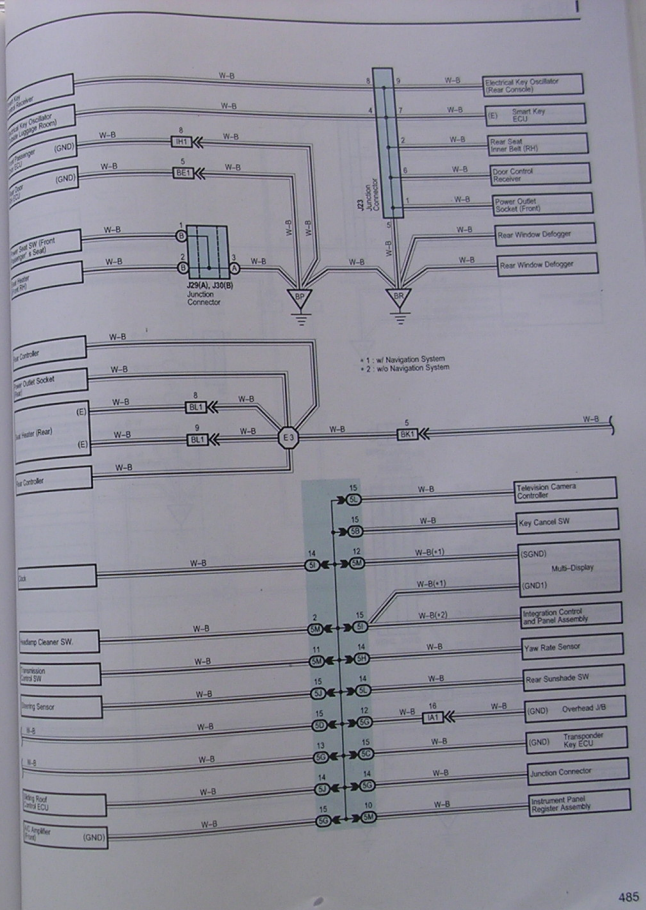
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B2	84	Rear A/C Sub Wire			

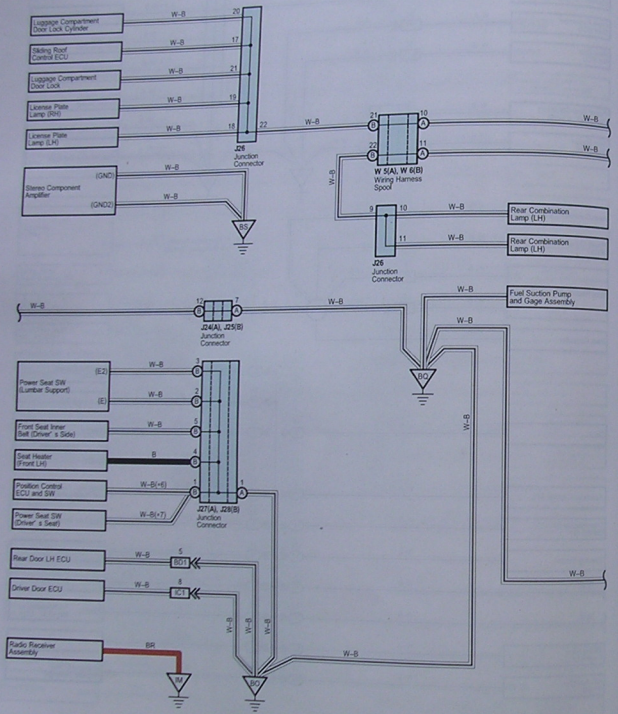

J 7
Junction Connector
Windshield Wiper Motor
Combination Meter
Skid Control ECU with Actuator
(GND1)
(GND2)
ST CUT Relay
Brake Fluid Level Warning SW
Headlamp Cleaner Control Relay
Front Wiper Deicer
Headlamp Leveling ECU
Brake Pedal Road Sensing SW
J 8(A), J 9(B) Junction Connector
Wireless Door Lock Buzzer
Turn Signal Lamp (Front Side LH)
Windshield Washer Motor
IG2 Relay
Turn Signal Lamp (Front Side RH)
Noise Filter
DEFOG Relay
STARTER Relay
FAN MAIN Relay
Blower Motor (Front)
(GND)
(PGND)
Power Steering ECU
(SSR–)
(SOL–)
A/C Compressor
EFI NO. 2 Relay
EFI MAIN Relay
A/F Relay
J 5(A), J 6(B) Junction Connector
Front Controller
(EC)
Engine ECU

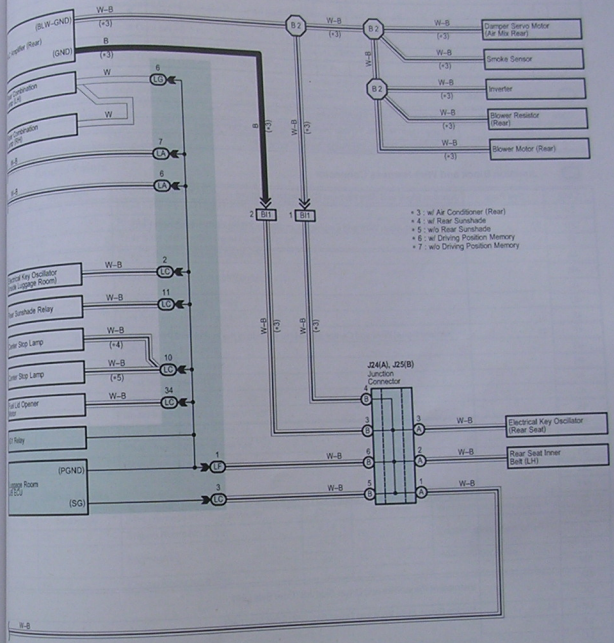

Headlamp (RH Low)
Turn Signal Lamp (Front RH)
Fog Lamp (Front RH)
Fog Lamp (Front LH)
Clearance Lamp (Front RH)
Headlamp (RH High)
(SG)
DLC3
Ignition Coil (No. 4)
Ignition Coil (No. 2)
Ignition Coil (No. 6)
Engine Oil Level Sensor
(ME01)
(E03)
Engine ECU
J 1(A), J 2(B) Junction Connector
Ignition Coil (No. 1)
Ignition Coil (No. 3)
Ignition Coil (No. 5)
(E04)
(E05)
(E01)
(E02)

接地点


Gateway ECU
Tire Pressure Warning SW
Traction Control SW
Power SW
Overhead J/B
Map Lamp (LH)
Combination Meter
Junction Connector
Cigarette Lighter
Brake Pedal Road Sensing SW
Tilt Motor
Front Passenger's Side J/B ECU
RH-IG Relay1
RH-IG Relay2
ACC Relay
PWR OUTLET Relay
Airbag Sensor Assembly Center
LH IG Relay1
LH IG Relay2
Driver Side J/B ECU
Turn Signal Flasher
Steering Lock ECU
Seat Heater SW (Front LH)
Seat Heater SW (Front RH)
A/T Shift Lever Illumination
ECT Pattern Select SW
Key Slot
Luggage Compartment Door Opener Cancel SW
Outer Mirror SW
Glove Box Lamp
DLC3
Retractor Mirror SW
Clock
Shift Lock Control ECU
Unlock Warning SW
Front Wiper Deicer SW
Junction Connector
Steering Lock ECU
Power Source Control ECU
Ion Generator
Tilt and Telescopic ECU
Sliding Roof Control ECU
Driver Side J/B ECU


Electrical Key Oscillator (Rear Console)
Smart Key ECU
Rear Seat Inner Belt (RH)
Door Control Receiver
Power Outlet Socket (Front)
Rear Window Defogger
Rear Window Defogger
J23 Junction Connector
J29(A), J10(B) Junction Connector
* 1 : w/ Navigation System
* 2 : w/o Navigation System
Clock
Heating Cleaner SW
Transmission Control SW
Steering Sensor
Television Camera Controller
Key Cancel SW
Multi-Display
Integration Control and Panel Assembly
Yaw Rate Sensor
Rear Sunshade SW
Overhead J/B
Transponder Key ECU
Junction Connector
Instrument Panel Register Assembly


Luggage Compartment Door Lock Cylinder
Sliding Roof Control ECU
Luggage Compartment Door Lock
License Plate Lamp (RH)
License Plate Lamp (LH)
Stereo Component Amplifier
(GND)
(GND2)
J26 Junction Connector
W 5(A), W 6(B) Wiring Harness Spool
Rear Combination Lamp (LH)
Rear Combination Lamp (LH)
Fuel Suction Pump and Gage Assembly
J24(A), J25(B) Junction Connector
Power Seat SW (Lumbar Support)
Front Seat Inner Belt (Driver' s Side)
Seat Heater (Front LH)
Position Control ECU and SW
Power Seat SW (Driver' s Seat)
J27(A), J28(B) Junction Connector
Rear Door LH ECU
Driver Door ECU
Radio Receiver Assembly
W-B
B
BR


(BLW-GND)
(GND)
Damper Servo Motor (Air Mix Rear)
Smoke Sensor
Inverter
Blower Resistor (Rear)
Blower Motor (Rear)
Electrical Key Oscillator
Rear Sunshade Relay
Door Stop Lamp
Door Stop Lamp
Fuel Lid Opener
(PGND)
(SG)
J24(A), J25(B) Junction Connector
Electrical Key Oscillator (Rear Seat)
Rear Seat Inner Belt (LH)
• 3 : w/ Air Conditioner (Rear)
• 4 : w/ Rear Sunshade
• 5 : w/o Rear Sunshade
• 6 : w/ Driving Position Memory
• 7 : w/o Driving Position Memory

○ : Parts Location

Code		See Page	Code		See Page	Code		See Page
J1	A	64	J9	B	68	J28	B	74
J2	B	64	J23		71	J29	A	74
J5	A	64	J24	A	71	J30	B	74
J6	B	64	J25	B	71	W5	A	73
J7		64	J26		71	W6	B	73
J8	A	68	J27	A	74			

▢ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B No.1 (Near the Front Right Suspention Tower)
2	26	Engine Room R/B No.2 (Engine Compartment Left)

▢ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2A	27	Engine Room Main Wire and Engine Room J/B No.2 (Engine Compartment Left)
2B		
2F		
4A	44	Instrument Panel Wire and Center J/B RH (Right Side of the Instrument Panel Reinforcement)
4B		
4C		
4D		
4E		
4F		
4G		
4H		
4I		
4J		
4K		
5B	48	Instrument Panel Wire and Center J/B LH (Right Side of the Instrument Panel Reinforcement)
5C		
5D		
5G		
5H		
5I		
5J		
5K		
5L		
5M		
DA	33	Instrument Panel Wire and Driver Side J/B (Cowl Side Left)
DD		
DK	34	Engine Room Main Wire and Driver Side J/B (Cowl Side Left)
LA	54	Floor No.2 Wire and Luggage Room J/B (Luggage Room Left)
LC	55	
LF		
LG	54	Luggage Room Wire and Luggage Room J/B (Luggage Room Left)
PA	39	Instrument Panel Wire and Front Passenger's Side J/B (Cowl Side Right)
PD		
PL	40	Engine Room Main Wire and Front Passenger's Side J/B (Cowl Side Right)

◻ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
E1	76	Engine Room Main Wire and Engine Wire (Inside of the ECU Box)
E2	78	Instrument Panel Wire and Roof Wire (Left Side of the Instrument Panel)
E3		
E4	78	Front Door LH Wire and Floor No.2 Wire (Left Kick Panel)
E5	78	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
E6	80	Front Door RH Wire and Floor Wire (Right Kick Panel)
E7	82	Rear Door No.2 Wire and Floor No.2 Wire (Left Center Pillar)
E8	82	Rear Door No.1 Wire and Floor Wire (Right Center Pillar)
E9	84	Floor No.2 Wire and Rear A/C Sub Wire (Rear Floor Partition Panel LH)
E10	88	Rear Seat RH No.2 Wire and Floor No.2 Wire (Back the Rear Seat LH)
E11	88	Rear Seat RH No.2 Wire and Rear Seat LH No.2 Wire (Back the Rear Seat RH)

▽ : Ground Points

Code	See Page	Ground Points Location
EA	76	Front Side of Front Right Fender Apron
EB	76	Right Side of Suspension Tower
EC	76	Rear Side of the Front Right Fender Apron
ED	76	Front Side of Front Light Fender Apron
EE	76	Rear Side of the Front Left Fender Apron
EF		
EH	76	Right Side of Cylinder Head
EI	76	Left Side of Cylinder Head
IK	78	Cowl Side Panel LH
IL	78	Left Side of Shift Lever
IM	78	Right Side of Shift Lever
IN	78	Cowl Side Panel RH
BQ	82	Under the Driver's Seat
BP	82	Under the Front Passenger's Seat
BQ	82	Rear Floor Partition Panel LH
BR	82	Rear Floor Partition Panel RH
BS	82	Right Side of Luggage Room

○ : Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E1	76	Engine Room No.2 Wire	E14	76	Engine Room Main Wire
E3	76	Engine Wire	E16		
E10			B2	84	Rear A/C Sub Wire
E13	76	Engine Room No.2 Wire			

J 电源 (电流流程图)

The chart below shows the route by which current flows from the battery to each electrical source (Fusible Link, Circuit Breaker, Fuse, etc.) and other Parts.

[LOCATION]

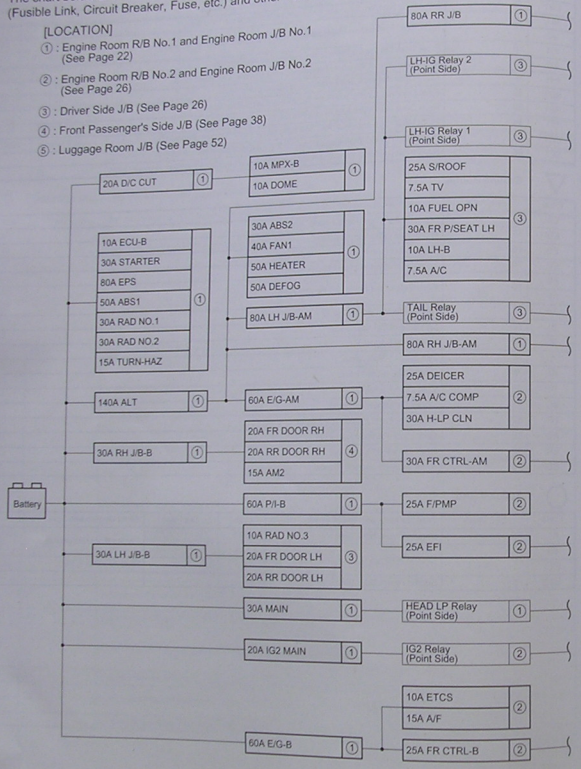
① : Engine Room R/B No.1 and Engine Room J/B No.1 (See Page 22)

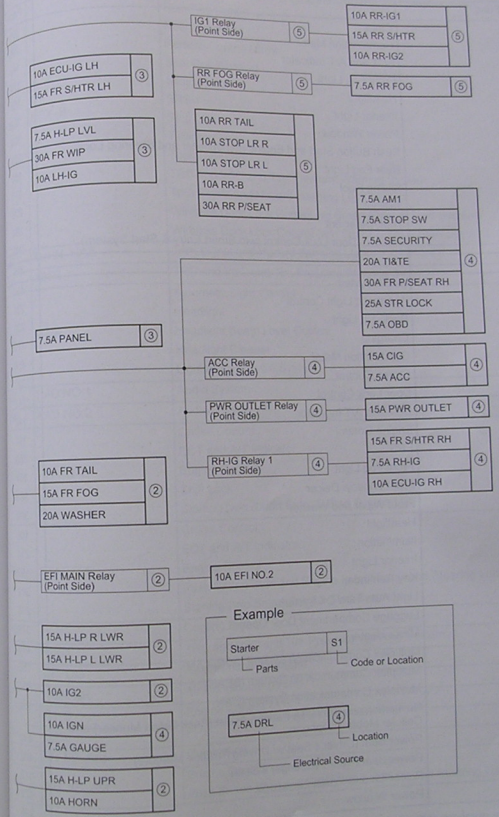
② : Engine Room R/B No.2 and Engine Room J/B No.2 (See Page 26)

③ : Driver Side J/B (See Page 26)

④ : Front Passenger's Side J/B (See Page 38)

⑤ : Luggage Room J/B (See Page 52)





Engine Room R/B No.1 and Engine Room J/B No.1 (See Page 22)

Fuse		System	Page
		Clock	396
		Combination Meter	456
		ECT and A/T Indicator	142
		Front Fog Light	174
		Headlight	168
		Interior Light	192
		Power Window	306
10A	DOME	Push Button Start and Engine Immobilezer and Steering Lock	100
		Rear Fog Light	180
		Sliding Roof	370
		Taillight	208
		Theft Deterrent	284
		Wireless Door Lock Control (w/o Smart Entry & Start System)	268
10A	ECU–B	EPS	350
		Audio System	450
		Automatic Light Control	234
		Back–Up Light	230
		Charging	110
		Combination Meter	456
		Cruise Control	320
		Door Lock Control	242
		ECT and A/T Indicator	142
		Engine Control	118
		EPS	350
		Front Fog Light	174
		Front Window Deicer	388
		Front Wiper and Washer	382
		Headlight	168
10A	MPX–B	Illumination	214
		Interior Light	192
		Key Reminder	302
		Light Auto Turn Off System	238
		Luggage Compartment Door Opener	376
		Mirror Heater	418
		Multiplex Communication System (AVC–LAN)	158
		Multiplex Communication System (BEAN)	162
		Multiplex Communication System (CAN)	154
		Navigation and TOYOTA Parking Assist (Back Guide Monitor) and Cellular Mobilr Telephone	440
		Power Seat (Driver's Seat w/ Driving Position Memory)	402
		Power Seat (Rear Passenger's Seat)	412
		Power Tilt and Power Telescopic	422
		Power Window	306

* These are the page numbers of the first page on which the related system is shown.

Fuse		System	Page
		Push Button Start and Engine Immobilezer and Steering Lock	100
		Rear Fog Light	180
		Rear Sunshade	428
		Remote Control Mirror	364
		Seat Belt Warning	298
		Sliding Roof	370
		SRS	341
0A	MPX–B	Stop Light	226
		Taillight	208
		Theft Deterrent	284
		TRC and VSC and Tire Pressure Warning System	332
		Turn Signal and Hazard Warning Light	186
		Wireless Door Lock Control (w/ Smart Entry & Start System)	270
		Wireless Door Lock Control (w/o Smart Entry & Start System)	268
5A	TURN–HAZ	Turn Signal and Hazard Warning Light	186
0A	ABS2	TRC and VSC and Tire Pressure Warning System	332
		Automatic Light Control	234
		Headlight	168
5A	MAIN	Headlight Beam Level Control	356
		Headlight Cleaner	360
		Light Auto Turn Off System	238
0A	RAD NO.1	Audio System	450
0A	RAD NO.2	Audio System	450
		Cruise Control	320
		ECT and A/T Indicator	142
0A	RH J/B–B	Engine Control	118
		Shift Lock	438
		Starting (w/o Smart Entry & Start System)	108
		Cruise Control	320
		ECT and A/T Indicator	142
0A	STARTER	Engine Control	118
		Push Button Start and Engine Immobilezer and Steering Lock	100
		Starting (w/o Smart Entry & Start System)	108
40A	FAN1	Cooling Fan	464
50A	ABS1	TRC and VSC and Tire Pressure Warning System	332
50A	DEFOG	Rear Window Defogger	390
50A	HEATER	Air Conditioner (Front)	466
60A	P/I–B	Engine Control	118
60A	EPS	EPS	350
60A	LH J/B–AM	Illumination	214
60A	RH J/B–AM	Engine Control	118
		Push Button Start and Engine Immobilezer and Steering Lock	100

* These are the page numbers of the first page on which the related system is shown.

Fuse		System	Page
80A	RH J/B–AM	Shift Lock	438
		Starting (w/o Smart Entry & Start System)	108
80A	RR J/B	Rear Fog Light	180
140A	ALT	Charging	110
		Engine Control	118
		Shift Lock	438
		Starting (w/o Smart Entry & Start System)	108

Engine Room R/B No.2 and Engine Room J/B No.2 (See Page 26)

Fuse		System	Page
7.5A	A/C COMP	Air Conditioner (Front)	466
10A	EFI NO.2	Engine Control	118
10A	ETCS	Cruise Control	320
		ECT and A/T Indicator	142
		Engine Control	118
10A	FR TAIL	Automatic Light Control	234
		Light Auto Turn Off System	238
		Taillight	208
10A	HORN	Horn	394
		Theft Deterrent	284
		Wireless Door Lock Control (w/ Smart Entry & Start System)	270
10A	IG2	Engine Control	118
		Ignition	114
15A	A/F	Engine Control	118
15A	FR FOG	Front Fog Light	174
15A	H–LP L LWR	Headlight	168
15A	H–LP R LWR	Headlight	168
15A	H–LP UPR	Headlight	168
20A	DEICER	Front Window Deicer	388
20A	IG2 MAIN	Push Button Start and Engine Immobilezer and Steering Lock	100
20A	WASH	Front Wiper and Washer	382
		Headlight Cleaner	360
25A	EFI	Cruise Control	320
		ECT and A/T Indicator	142
		Engine Control	118
25A	F/PMP	Engine Control	118
30A	H–LP CLN	Headlight Cleaner	360

Front Passenger's Side J/B (See Page 38)

Fuse		System	Page
7.5A	ACC	Air Conditioner (Front)	466
		Air Conditioner (Rear)	478
		Audio System	450

* These are the page numbers of the first page on which the related system is shown.

Fuse		System	Page
		Automatic Light Control	234
		Clock	396
		Door Lock Control	242
		Headlight	168
		Illumination	214
		Interior Light	192
		Key Reminder	302
		Light Auto Turn Off System	238
		Luggage Compartment Door Opener	376
		Multiplex Communication System (AVC–LAN)	158
		Multiplex Communication System (BEAN)	162
		Multiplex Communication System (CAN)	154
5A	ACC	Navigation and TOYOTA Parking Assist (Back Guide Monitor) and Cellular Mobilr Telephone	440
		Power Seat (Driver's Seat w/ Driving Position Memory)	402
		Power Tilt and Power Telescopic	422
		Power Window	306
		Push Button Start and Engine Immobilezer and Steering Lock	100
		Rear Sunshade	428
		Remote Control Mirror	364
		Seat Belt Warning	298
		Theft Deterrent	284
		Wireless Door Lock Control (w/ Smart Entry & Start System)	270
		Wireless Door Lock Control (w/o Smart Entry & Start System)	268
		Engine Control	118
5A	AM1	Shift Lock	438
		Starting (w/o Smart Entry & Start System)	108
		Audio System	450
		Charging	110
		Combination Meter	456
		Cruise Control	320
		ECT and A/T Indicator	142
		Engine Control	118
		EPS	350
		Front Fog Light	174
		Headlight	168
7.5A	GAUGE	Headlight Beam Level Control	356
		Illumination	214
		Interior Light	192
		Key Reminder	302
		Navigation and TOYOTA Parking Assist (Back Guide Monitor) and Cellular Mobilr Telephone	440
		Push Button Start and Engine Immobilezer and Steering Lock	100
		Rear Fog Light	180
		Seat Belt Warning	298

* These are the page numbers of the first page on which the related system is shown.

Fuse		System	Page
7.5A	GAUGE	Sliding Roof	370
		SRS	341
		Stop Light	226
		Taillight	208
		Theft Deterrent	284
		TRC and VSC and Tire Pressure Warning System	332
7.5A	OBD	Engine Control	118
7.5A	RH–IG	Air Conditioner (Front)	466
		Cruise Control	320
		Door Lock Control	242
		ECT and A/T Indicator	142
		Electric Tension Reducer	414
		Front Window Deicer	388
		Illumination	214
		Interior Light	192
		Mirror Heater	418
		Power Window	306
		Remote Control Mirror	364
		Seat Heater (Front)	434
		Theft Deterrent	284
		TRC and VSC and Tire Pressure Warning System	332
		Wireless Door Lock Control (w/ Smart Entry & Start System)	270
		Wireless Door Lock Control (w/o Smart Entry & Start System)	268
7.5A	SECURITY	Engine Immobilizer System (w/o Smart Entry & Start system)	138
		Push Button Start and Engine Immobilezer and Steering Lock	100
7.5A	STOP SW	Cruise Control	320
		ECT and A/T Indicator	142
		Engine Control	118
		Push Button Start and Engine Immobilezer and Steering Lock	100
		Shift Lock	438
		Stop Light	226
		TRC and VSC and Tire Pressure Warning System	332
10A	ECU–IG RH	Air Conditioner (Front)	466
		Audio System	450
		Automatic Light Control	234
		Door Lock Control	242
		Front Fog Light	174
		Front Wiper and Washer	382
		Headlight	168
		Illumination	214
		Interior Light	192
		Key Reminder	302
		Light Auto Turn Off System	238
		Luggage Compartment Door Opener	376

* These are the page numbers of the first page on which the related system is shown.

Fuse		System	Page
		Multiplex Communication System (AVC–LAN)	158
		Multiplex Communication System (BEAN)	162
		Multiplex Communication System (CAN)	154
		Navigation and TOYOTA Parking Assist (Back Guide Monitor) and Cellular Mobilr Telephone	440
		Power Tilt and Power Telescopic	422
		Power Window	306
A	ECU–IG RH	Remote Control Mirror	364
		Seat Belt Warning	298
		Shift Lock	438
		Taillight	208
		Theft Deterrent	284
		Turn Signal and Hazard Warning Light	186
		Wireless Door Lock Control (w/ Smart Entry & Start System)	270
		Wireless Door Lock Control (w/o Smart Entry & Start System)	268
		Cruise Control	320
		ECT and A/T Indicator	142
		Engine Control	118
A	IGN	Engine Immobilizer System (w/o Smart Entry & Start system)	138
		Push Button Start and Engine Immobilezer and Steering Lock	100
		SRS	341
		Cruise Control	320
		ECT and A/T Indicator	142
		Engine Control	118
A	AM2	Push Button Start and Engine Immobilezer and Steering Lock	100
		Shift Lock	438
		Starting (w/o Smart Entry & Start System)	108
A	CIG	Cigarette Lighter	398
A	FR S/HTR RH	Seat Heater (Front)	434
A	PWR OUTLET	Power Outlet	400
		Automatic Light Control	234
		Door Lock Control	242
		Illumination	214
		Interior Light	192
		Light Auto Turn Off System	238
A	FR DOOR RH	Mirror Heater	418
		Power Window	306
		Remote Control Mirror	364
		Theft Deterrent	284
		Wireless Door Lock Control (w/ Smart Entry & Start System)	270
		Wireless Door Lock Control (w/o Smart Entry & Start System)	268
		Door Lock Control	242
A	RR DOOR RH	Illumination	214
		Interior Light	192

* These are the page numbers of the first page on which the related system is shown.

Fuse		System	Page
20A	RR DOOR RH	Power Window	306
		Theft Deterrent	284
		Wireless Door Lock Control (w/ Smart Entry & Start System)	270
		Wireless Door Lock Control (w/o Smart Entry & Start System)	268
20A	TI & TE	Power Tilt and Power Telescopic	422
25A	STR LOCK	Push Button Start and Engine Immobilizer and Steering Lock	100
30A	FR P/SEAT LH	Power Seat (Driver's Seat w/ Driving Position Memory)	402
		Power Seat (Driver's Seat w/o Driving Position Memory)	408

Driver Side J/B (See Page 32)

Fuse		System	Page
7.5A	A/C	Air Conditioner (Front)	466
7.5A	H–LP LVL	Headlight Beam Level Control	356
7.5A	PANEL	Air Conditioner (Front)	466
		Illumination	214
7.5A	TV	Air Conditioner (Front)	466
		Audio System	450
		Navigation and TOYOTA Parking Assist (Back Guide Monitor) and Cellular Mobilr Telephone	440
		Seat Belt Warning	298
10A	ECU–IG LH	Air Conditioner (Front)	466
		Automatic Light Control	234
		EPS	350
		Front Fog Light	174
		Front Wiper and Washer	382
		Headlight	168
		Light Auto Turn Off System	238
		Navigation and TOYOTA Parking Assist (Back Guide Monitor) and Cellular Mobilr Telephone	440
		Power Seat (Driver's Seat w/ Driving Position Memory)	402
		Sliding Roof	370
		Taillight	208
		TRC and VSC and Tire Pressure Warning System	332
10A	FUEL OPN	Combination Meter	456
		Fuel Lid Opener	416
10A	LH–IG	Air Conditioner (Rear)	478
		Back–Up Light	230
		Charging	110
		Cooling Fan	464
		Cruise Control	320
		Door Lock Control	242
		ECT and A/T Indicator	142
		Electric Tension Reducer	414
		Front Wiper and Washer	382

* These are the page numbers of the first page on which the related system is shown.

Fuse		System	Page
	LH–IG	Headlight Cleaner	360
		Illumination	214
		Interior Light	192
		Mirror Heater	418
		Navigation and TOYOTA Parking Assist (Back Guide Monitor) and Cellular Mobilr Telephone	440
		Power Seat (Driver's Seat w/ Driving Position Memory)	402
		Power Window	306
		Rear Sunshade	428
		Rear Window Defogger	390
		Remote Control Mirror	364
		Theft Deterrent	284
		TRC and VSC and Tire Pressure Warning System	332
		Turn Signal and Hazard Warning Light	186
		Wireless Door Lock Control (w/ Smart Entry & Start System)	270
		Wireless Door Lock Control (w/o Smart Entry & Start System)	268
	RAD NO.3	Audio System	450
	FR S/HTR LH	Seat Heater (Front)	434
	FR S/HTR RH	Power Seat (Front Passenger's Seat)	410
	FR DOOR LH	Door Lock Control	242
		Interior Light	192
		Mirror Heater	418
		Power Window	306
		Remote Control Mirror	364
		Theft Deterrent	284
		Wireless Door Lock Control (w/ Smart Entry & Start System)	270
		Wireless Door Lock Control (w/o Smart Entry & Start System)	268
	RR DOOR LH	Door Lock Control	242
		Illumination	214
		Interior Light	192
		Power Window	306
		Theft Deterrent	284
		Wireless Door Lock Control (w/ Smart Entry & Start System)	270
		Wireless Door Lock Control (w/o Smart Entry & Start System)	268
	S/ROOF	Sliding Roof	370
	FR WIP	Front Wiper and Washer	382

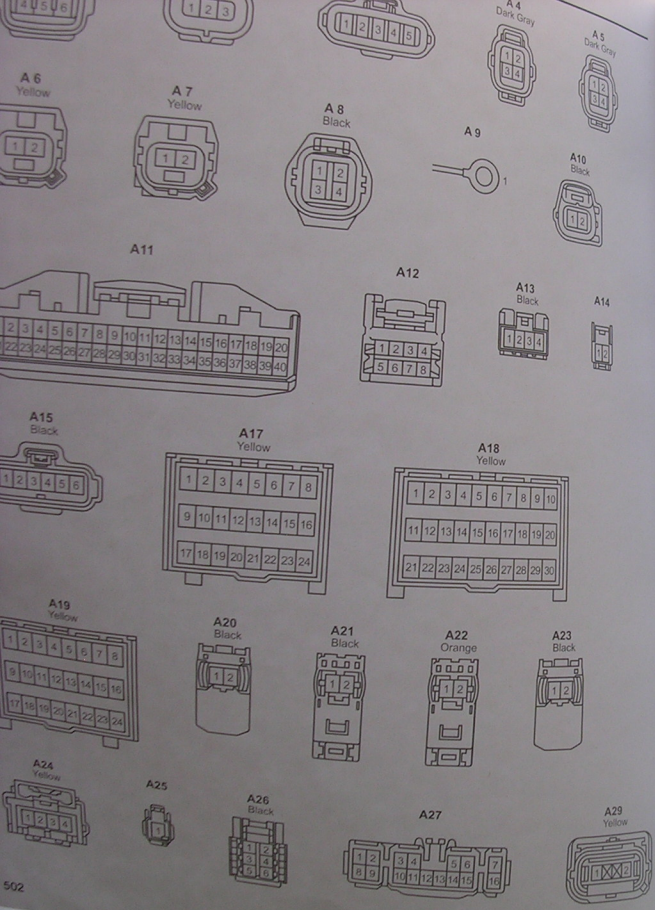
Luggage Room J/B (See Page 52)

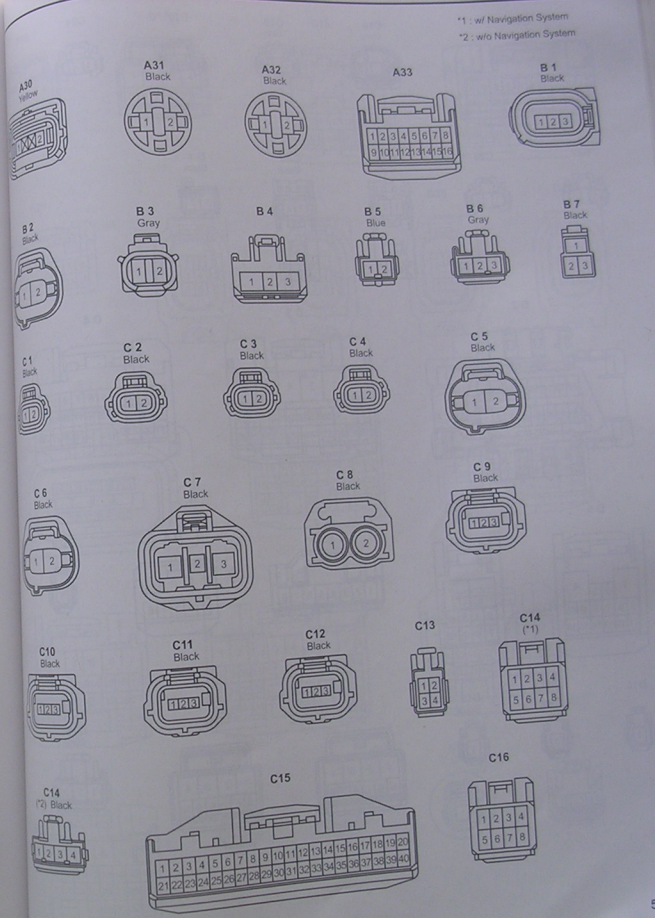
Fuse		System	Page
	RR FOG	Rear Fog Light	180
	RR TAIL	Taillight	208
	RR–B	Air Conditioner (Rear)	478
		Back–Up Light	230
		Door Lock Control	242

* These are the page numbers of the first page on which the related system is shown.

Fuse		System	Page
10A	RR–B	Interior Light	192
		Luggage Compartment Door Opener	376
		Rear Fog Light	180
		Stop Light	226
		Taillight	208
		Theft Deterrent	284
		Wireless Door Lock Control (w/ Smart Entry & Start System)	270
		Wireless Door Lock Control (w/o Smart Entry & Start System)	268
10A	RR–IG	Door Lock Control	242
		Luggage Compartment Door Opener	376
		Theft Deterrent	284
		Wireless Door Lock Control (w/ Smart Entry & Start System)	270
		Wireless Door Lock Control (w/o Smart Entry & Start System)	268
10A	RR–IG1	Back–Up Light	230
		Electric Tension Reducer	414
		Interior Light	192
		Rear Fog Light	180
		Rear Sunshade	428
		Stop Light	226
		Taillight	208
10A	STOP LR L	Stop Light	226
10A	STOP LR R	Stop Light	226
15A	RR S/HTR	Seat Heater (Rear)	436
30A	RR P/SEAT	Power Seat (Rear Passenger's Seat)	412

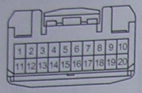
* These are the page numbers of the first page on which the related system is shown.


A 4
Dark Gray
A 5
Dark Gray
A 6
Yellow
A 7
Yellow
A 8
Black
A 9
A10
Black
A11
A12
A13
Black
A14
A15
Black
A17
Yellow
A18
Yellow
A19
Yellow
A20
Black
A21
Black
A22
Orange
A23
Black
A24
Yellow
A25
A26
Black
A27
A29
Yellow


*1 : w/ Navigation System
*2 : w/o Navigation System
A30
Yellow
A31
Black
A32
Black
A33
B 1
Black
B 2
Black
B 3
Gray
B 4
B 5
Blue
B 6
Gray
B 7
Black
C 1
Black
C 2
Black
C 3
Black
C 4
Black
C 5
Black
C 6
Black
C 7
Black
C 8
Black
C 9
Black
C10
Black
C11
Black
C12
Black
C13
C14
(*1)
C14
(*2) Black
C15
C16

K 连接器表

C17



C18
Gray

C19
Gray

C20

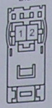
C21

C22

C23

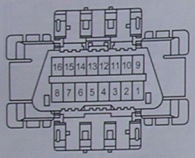
C24
Black

C25
Black

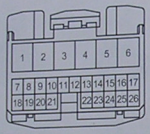


D 1
Black

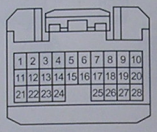
D 2



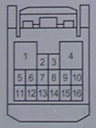
D 3



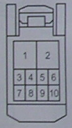
D 4



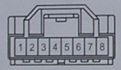
D 5



D 6



D 7
Black



D 8

D 9

D10
Black

D11
Black

D12
Black

D13

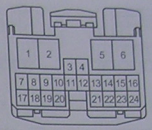
D14

D15
Black

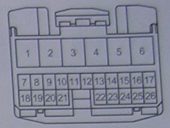
D16

D17

D18



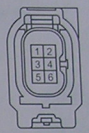
D19



D20

D21

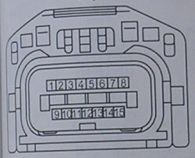
D22



D23

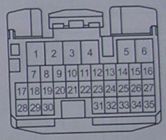
D24

E 1
Gray



E 2

E 3



E 4

E 5

E 6

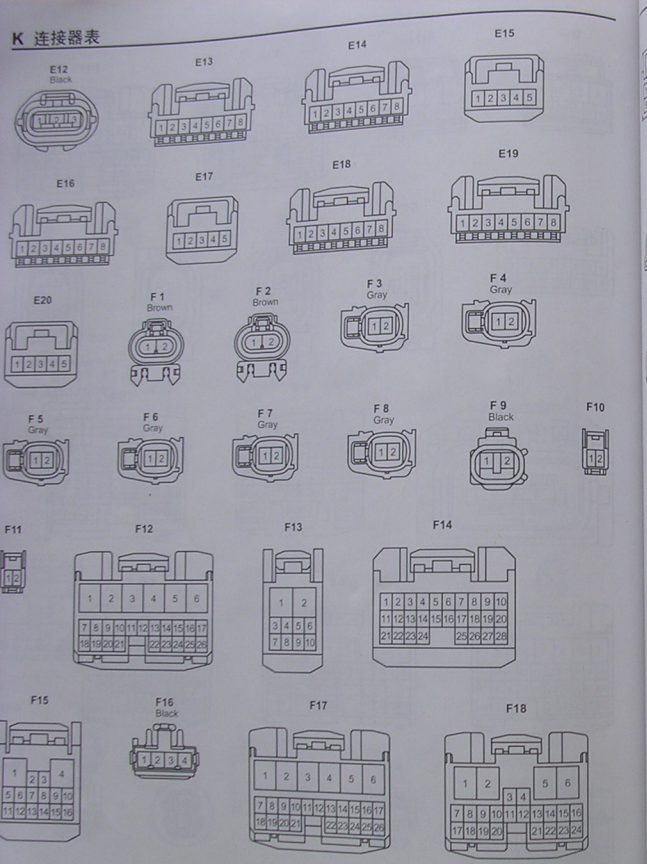
E 7

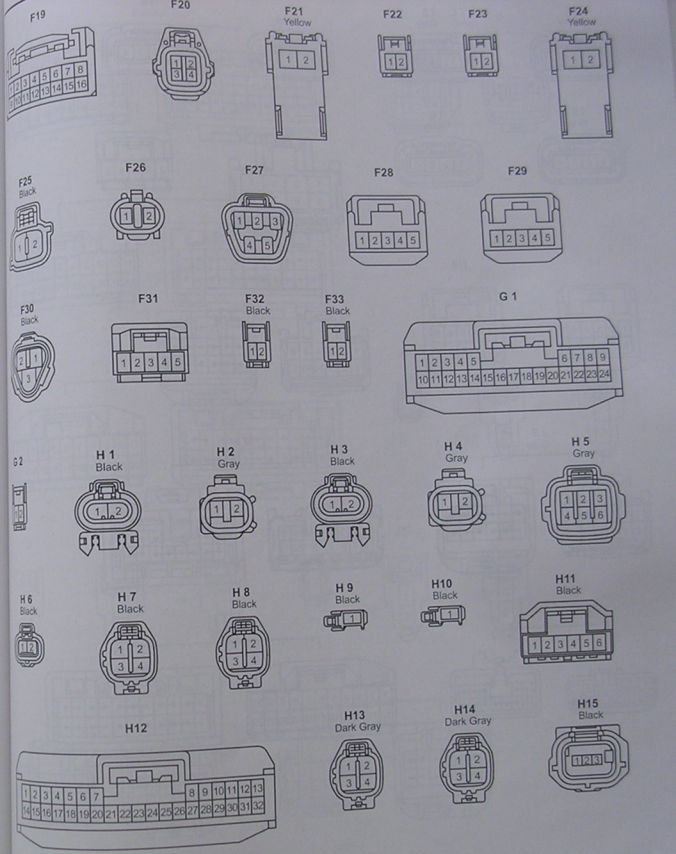
E 8
Black

E 9
Gray

E10
Gray

E11


E12
Black
E13
E14
E15
E16
E17
E18
E19
E20
F 1
Brown
F 2
Brown
F 3
Gray
F 4
Gray
F 5
Gray
F 6
Gray
F 7
Gray
F 8
Gray
F 9
Black
F10
F11
F12
F13
F14
F15
F16
Black
F17
F18

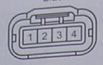

F19
F20
F21
Yellow
F22
F23
F24
Yellow
F25
Black
F26
F27
F28
F29
F30
Black
F31
F32
Black
F33
Black
G 1
G 2
H 1
Black
H 2
Gray
H 3
Black
H 4
Gray
H 5
Gray
H 6
Black
H 7
Black
H 8
Black
H 9
Black
H10
Black
H11
Black
H12
H13
Dark Gray
H14
Dark Gray
H15
Black

I 1
Gray

I 2
Gray

I 3
Black

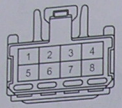
I 4
Black



I 5
Gray

I 6
Gray

I 7

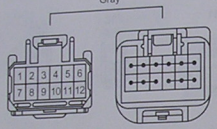


I 8

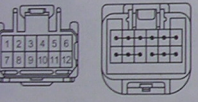
I 9

I10

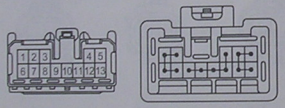
J 1
Gray



J 2
Gray

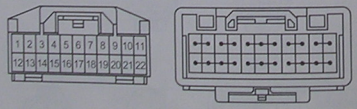


J 3

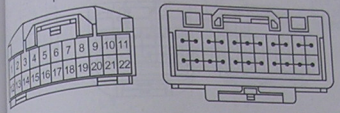


J 4

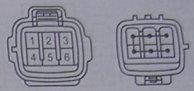
J 5
Blue



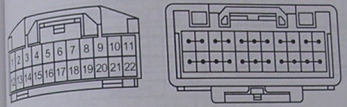
J 6
Blue



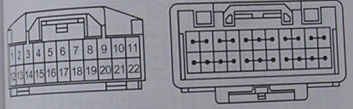
J 7
Gray



J 8
Blue



J 9
Blue



J10

J11

J12

J13

J14

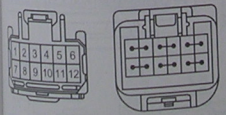
J15

J16

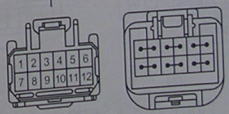
J17

J18

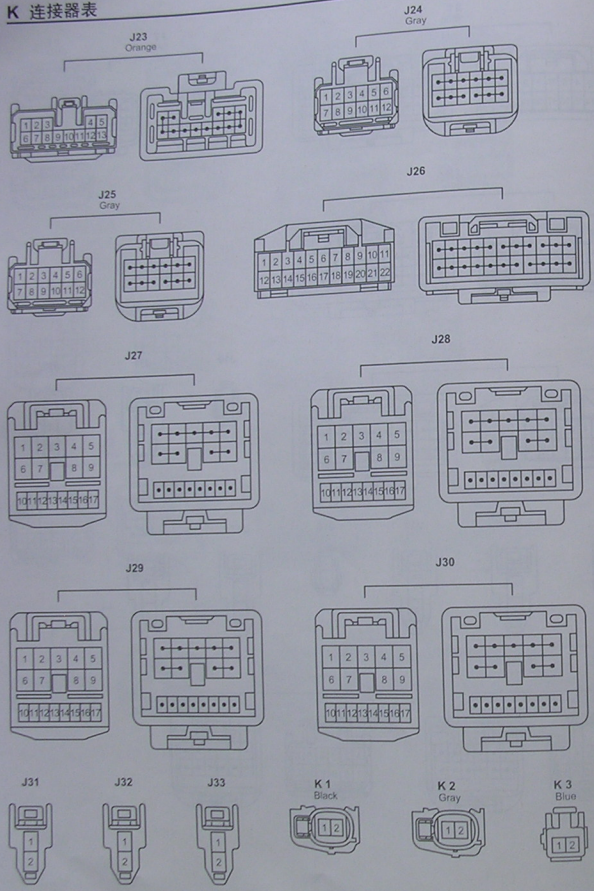
J21

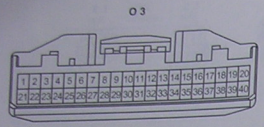


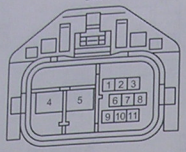
J22

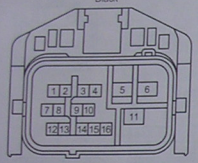


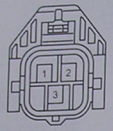
K 连接器表


J23
Orange
J24
Gray
J25
Gray
J26
J27
J28
J29
J30
J31
J32
J33
K 1
Black
K 2
Gray
K 3
Blue
K 4
K 5
Black
L 1
Blue
L 2
Blue
L 3
Gray
L 4
Gray
L 5
L 6
L 7
Black
M 1
Black
M 2
Gray
M 3
Brown
M 4
M 5
M 6
Blue
M 7
Blue
M 8
M 9
M10
Gray
N 1
Gray
N 2
Black
N 3
Gray
N 4
Gray
O 1
Black


O 3


P 1
Black


P 2
Black


P 3
Gray

P 4
Gray

P 5
Gray

P 6

P 7

P 8
Black

P 9
Black

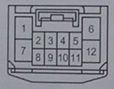
P10

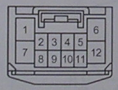
P11
Black

P12
Black

P13
Black

P14
Black


P15


P16

P17

P18
Blue

P19

P20
Black

P21
Black

P22
Black

P23
Black

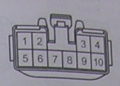
P24
Black

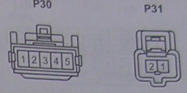
P25
Black

P26

P27
Black

P28
Black


P30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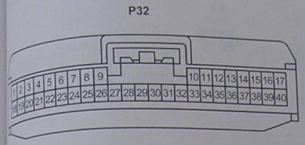
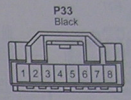
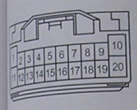
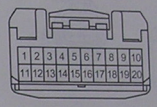

P32


P33
Black

R 1

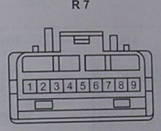

R 2


R 3

R 4
Black

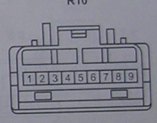
R 5
Black

R 6
Black

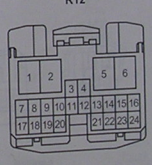

R 7

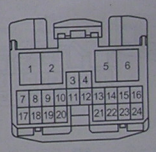
R 8

R 9


R10

R11


R12


R13

R14

R15

R16

R17
Yellow

R18

R19

R20
Yellow

R21

R22
Black

R23
Black

R24

R25
Gray

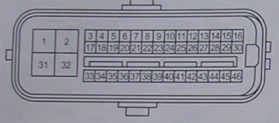
R26

R27

R28

S 1
Black

S 2
Black



S 4
Black

S 5
Black

S 6

S 7
Black

S 8

S 9

S10

S11

S12
Black

S13
Gray

S14
Green

S15

S16
Yellow

S17
Yellow

S18
Yellow

S19
Yellow

S20

S21

S22
Gray

S23
Gray

S24
Gray

S25
Gray

S26

S27
Black

S28
Black

S29

S30

S31

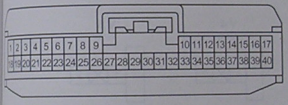
S32

S33

S34

S35

S36



T 1
Black

T 2
Black

T 3
Black

T 4
Gray

T 5
Gray

T 6
Gray

T 7
Gray

T 8

T 9

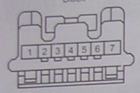
T10
Black

T11
Blue

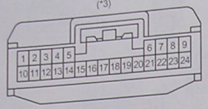
T12

*3 : w/ Smart Entry System
*4 : w/o Smart Entry System

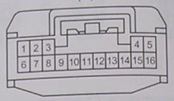
T13
Black



T14
(*3)



T14
(*4)



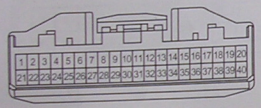
T15

T16
Black

T17

T18

T19



T20

T21

U 1

V 1
Black

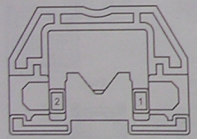
V 2
Black

V 3
Black

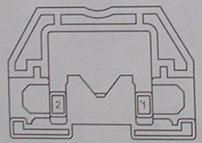
V 4
Gray

V 5
Gray

V 6



V 7



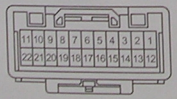
W 1
Dark Gray

W 2
Black

W 3
Black

W 4
Black

W 5



W 6

Y 1
Black

L 连接器零件号

代码	零件名	零件号
A 1	空调压缩机	90980 - 11194
A 2	空调压力传感器	90980 - 10845
A 3	空气流量计	90980 - 11317
A 4	空燃比传感器 (1 排，传感器 1)	90980 - 10869
A 5	空燃比传感器 (2 排，传感器 1)	
A 6	空气囊传感器 (左前)	90980 - 12490
A 7	空气囊传感器 (右前)	
A 8	交流发电机	90980 - 11964
A 9	交流发电机	90980 - 09876
A10	环境温度传感器	90980 - 11070
A11	空调放大器 (前)	90980 - 12557
A12	空调放大器 (前)	90980 - 12264
A13	空调车内温度传感器	90980 - 11950
A14	A/T 换档杆照明	90980 - 11918
A15	油门位置传感器	90980 - 11858
A17	中央空气囊传感器总成	90980 - 12390
A18	中央空气囊传感器总成	90980 - 12391
A19	中央空气囊传感器总成	90980 - 12392
A20	空气囊引爆管 (驾驶员侧膝盖空气囊)	90980 - 12452
A21	空气囊引爆管 (前乘员空气囊总成)	90980 - 12219
A22	空气囊引爆管 (前乘员空气囊总成)	90980 - 12224
A23	空气囊引爆管 (前乘员侧膝盖空气囊)	90980 - 12452
A24	空气囊引爆管 (方向盘衬垫)	90980 - 12160
A25	天线放大器	90980 - 10871
A26	自动灯控传感器	90980 - 12056
A27	空调放大器 (后)	90980 - 10848
A29	空气囊传感器 (左后)	90980 - 12241
A30	空气囊传感器 (右后)	
A31	烟灰缸照明 (左后)	90980 - 12111
A32	烟灰缸照明 (右后)	
A33	空调放大器 (前)	90980 - 12553
B 1	蓄电池电流传感器	90980 - 12168
B 2	蓄电池温度计传感器	90980 - 11156
B 3	制动液面警告开关	90980 - 11207
B 4	鼓风机电机 (前)	90980 - 11667
B 5	制动踏板负载传感开关	90980 - 10860
B 6	鼓风机电机 (后)	90980 - 10908
B 7	鼓风机电阻器 (后)	90980 - 10216
C 1	凸轮轴正时机油控制阀 (左侧排气)	90980 - 11162
C 2	凸轮轴正时机油控制阀 (左侧进气)	
C 3	凸轮轴正时机油控制阀 (右侧排气)	
C 4	凸轮轴正时机油控制阀 (右侧进气)	

代码	零件名	零件号
C 5	示宽灯 (左前)	90980 - 11156
C 6	示宽灯 (右前)	
C 7	冷却风扇 ECU	90980 - 12058
C 8	曲轴位置传感器	90980 - 12028
C 9	2号曲轴位置传感器 (左侧排气)	90980 - 12353
C10	2号曲轴位置传感器 (右侧排气)	
C11	2号曲轴位置传感器 (右侧进气)	
C12	3号曲轴位置传感器 (左侧进气)	
C13	点烟器	90980 - 10795
C14	时钟 (带导航系统)	90980 - 12113
	时钟 (不带导航系统)	90980 - 11013
C15	组合仪表	90980 - 12557
C16	组合开关	90980 - 12113
C17	组合开关	90980 - 12259
C18	中央制动灯	90980 - 11159
C19	中央制动灯	90980 - 11148
C20	门控灯 (左前门)	
C21	门控灯 (右前门)	
C22	门控灯 (左后门)	
C23	门控灯 (右后门)	
C24	帘式空气囊引爆管 (左)	90980 - 12219
C25	帘式空气囊引爆管 (右)	
D 1	二极管	90980 - 10962
D 2	DLC3	90980 - 11665
D 3	驾驶员侧接线盒 ECU	90980 - 12150
D 4	驾驶员侧接线盒 ECU	90980 - 12330
D 5	驾驶员侧接线盒 ECU	90980 - 12329
D 6	驾驶员侧接线盒 ECU	90980 - 12328
D 7	阻尼器伺服电机 (后空气混合)	90980 - 11989
D 8	门控接收器	90980 - 12366
D 9	门控灯开关 (驾驶员侧)	90980 - 10871
D10	门控灯开关 (前乘员侧)	
D11	门控灯开关 (左后)	
D12	门控灯开关 (右后)	
D13	门锁总成 (驾驶员侧)	90980 - 12226
D14	门锁总成 (前乘员侧)	
D15	门锁总成 (行李箱)	90980 - 10908
D16	门锁总成 (左后)	90980 - 12226
D17	门锁总成 (右后)	
D18	驾驶员门 ECU	90980 - 12149
D19	驾驶员门 ECU	90980 - 12150
D20	驾驶员门 ECU	90980 - 12156

代码	零件名	零件号
D21	车门外侧把手 (左前)	90980 - 12382
D22	车门外侧把手 (右前)	
D23	车门外侧把手 (左后)	
D24	车门外侧把手 (右后)	
E 1	ECT 电磁阀	90980 - 12293
E 2	发动机 ECU	90980 - 12525
E 3	发动机 ECU	90980 - 12529
E 4	发动机 ECU	90980 - 12527
E 5	发动机 ECU	90980 - 12528
E 6	发动机 ECU	90980 - 12526
E 7	发动机 ECU	90980 - 12407
E 8	发动机罩灯控开关	90980 - 11189
E 9	机油油位传感器	90980 - 11235
E10	机油压力开关	90980 - 11363
E11	ECT 模式选择开关	90980 - 11494
E12	电子钥匙天线 (行李箱)	90980 - 11349
E13	电子钥匙振荡器 (左前门)	90980 - 12217
E14	电子钥匙振荡器 (右前门)	
E15	电子钥匙振荡器 (行李箱内侧)	90980 - 12366
E16	电子钥匙振荡器 (行李箱外侧)	90980 - 12217
E17	电子钥匙振荡器 (后控制台)	90980 - 12366
E18	电子钥匙振荡器 (左后门)	90980 - 12217
E19	电子钥匙振荡器 (右后门)	
E20	电子钥匙振荡器 (后座椅)	90980 - 12366
F 1	雾灯 (左前)	90980 - 11660
F 2	雾灯 (右前)	90980 - 11875
F 3	喷油嘴 (1 号)	
F 4	喷油嘴 (2 号)	
F 5	喷油嘴 (3 号)	
F 6	喷油嘴 (4 号)	
F 7	喷油嘴 (5 号)	
F 8	喷油嘴 (6 号)	
F 9	燃油泵电阻器	90980 - 11003
F10	足部照明灯 (左)	90980 - 11918
F11	足部照明灯 (右)	
F12	前乘员侧接线盒 ECU	90980 - 12150
F13	前乘员侧接线盒 ECU	90980 - 12328
F14	前乘员侧接线盒 ECU	90980 - 12330
F15	前乘员侧接线盒 ECU	90980 - 12329
F16	加油口盖开启器开关	90980 - 11090
F17	前乘员门 ECU	90980 - 12150
F18	前乘员门 ECU	90980 - 12149
F19	前乘员门 ECU	90980 - 12156
F20	前座椅内安全带 (驾驶员侧)	90980 - 10942
F21	前座椅外安全带 (左)	90980 - 12253

代码	零件名	零件号
F22	前座椅外安全带 (左)	90980 - 12063
F23	前座椅外安全带 (右)	
F24	前座椅外安全带 (右)	90980 - 12253
F25	加油口盖开启器电机	90980 - 11019
F26	燃油量传感器	90980 - 11140
F27	吸油泵和计量表总成	90980 - 11077
F28	前座椅内安全带 (驾驶员侧)	90980 - 12366
F29	前座椅内安全带 (前乘员侧)	
F30	前刮水器除冰器	90980 - 11407
F31	前刮水器除冰器开关	90980 - 11909
F32	足部照明灯 (左后)	90980 - 11918
F33	足部照明灯 (右后)	
G 1	网关 ECU	90980 - 12404
G 2	手套箱灯	90980 - 11918
H 1	前照灯 (左远光)	90980 - 11659
H 2	前照灯 (左近光)	90980 - 11003
H 3	前照灯 (右远光)	90980 - 11659
H 4	前照灯 (右近光)	90980 - 11003
H 5	前照灯清洁器控制继电器	90980 - 11194
H 6	前照灯清洁器电机	90980 - 11410
H 7	前照灯方向控制电机 (左)	90980 - 11028
H 8	前照灯方向控制电机 (右)	
H 9	喇叭 (高音)	90980 - 10619
H10	喇叭 (低音)	
H11	前照灯清洁器开关	90980 - 11986
H12	前照灯方向控制 ECU	90980 - 12422
H13	加热型氧传感器 (1排，传感器2)	90980 - 11028
H14	加热型氧传感器 (2排，传感器2)	
H15	高度控制传感器	90980 - 12353
I 1	点火线圈 (1 号)	90980 - 11885
I 2	点火线圈 (2 号)	
I 3	点火线圈 (3 号)	
I 4	点火线圈 (4 号)	
I 5	点火线圈 (5 号)	
I 6	点火线圈 (6 号)	
I 7	点火开关	90980 - 11615
I 8	仪表板调节器总成	90980 - 11909
I 9	集成控制面板总成	90980 - 12368
I10	离子发生器	
J 1	连接线接头	90980 - 11661
J 2	连接线接头	90980 - 11542
J 3	连接线接头	90980 - 10803
J 4	连接线接头	90980 - 11915
J 5	连接线接头	
J 6	连接线接头	

注：车辆并未完全提供上述所有的连接器零件号。

L 连接器零件号

代码	零件名	零件号
J 7	连接线接头	90980 - 11194
J 8	连接线接头	90980 - 11915
J 9	连接线接头	
J10	连接线接头	90980 - 10871
J11	连接线接头	
J12	连接线接头	
J13	连接线接头	90980 - 12355
J14	连接线接头	
J15	连接线接头	
J16	连接线接头	90980 - 10871
J17	连接线接头	90980 - 12355
J18	连接线接头	
J21	连接线接头	90980 - 11661
J22	连接线接头	
J23	连接线接头	90980 - 11714
J24	连接线接头	90980 - 11661
J25	连接线接头	
J26	连接线接头	90980 - 11915
J27	连接线接头	
J28	连接线接头	90980 - 12374
J29	连接线接头	
J30	连接线接头	
J31	连接线接头	
J32	连接线接头	90980 - 12355
J33	连接线接头	
K 1	爆震控制传感器 (1 排)	90980 - 11875
K 2	爆震控制传感器 (2 排)	
K 3	钥匙取消开关	90980 - 10825
K 4	钥匙孔	90980 - 12366
K 5	钥匙孔	90980 - 12092
L 1	灯控变阻器	90980 - 11950
L 2	行李箱门开启器取消开关	90980 - 10825
L 3	牌照号灯 (左)	90980 - 11148
L 4	牌照号灯 (右)	
L 5	行李箱门锁芯	90980 - 10825
L 6	行李箱门锁	90980 - 11967
L 7	行李箱门锁开启器开关 (左前门)	90980 - 10825
M 1	电磁阀 (后)	90980 - 10860
M 2	地图灯 (左)	-
M 3	地图灯 (右)	
M 4	复式显示器	90980 - 12555
M 5	复式显示器	90980 - 12444
M 6	复式显示器	90980 - 12012
M 7	复式显示器	90980 - 12209
M 8	复式显示器	90980 - 12200
M 9	复式显示器	90980 - 12113
M10	复式显示器	90980 - 12043
N 1	空档起动开关	90980 - 11784
N 2	静噪滤波器 (中央制动灯)	90980 - 10916
N 3	静噪滤波器 (点火 1 排)	90980 - 10843
N 4	静噪滤波器 (点火 2 排)	
O 1	外后视镜开关	90980 - 12162
O 3	顶置接线盒	90980 - 12557
P 1	动力转向 ECU	90980 - 12483
P 2	动力转向 ECU	90980 - 12518
P 3	动力转向电机	90980 - 12496
P 4	动力转向电机	90980 - 12495
P 5	动力转向扭矩传感器	90980 - 12520
P 6	驻车制动开关	90980 - 10871
P 7	电源插座 (前)	90980 - 12498
P 8	电动座椅电机 (左后座椅倾斜控制)	90980 - 10825
P 9	电动座椅电机 (右后座椅倾斜控制)	
P10	电动窗总开关	90980 - 12166
P11	电动窗升降调节器电机 (驾驶员侧)	90980 - 10797
P12	电动窗升降调节器电机 (前乘员侧)	
P13	电动窗升降调节器电机 (左后)	
P14	电动窗升降调节器电机 (后后)	
P15	电动窗开关 (前乘员侧)	90980 - 12522
P16	电动窗开关 (左后)	
P17	电动窗开关 (右后)	
P18	位置控制 ECU 和开关	90980 - 10801
P19	位置控制 ECU 和开关	90980 - 12221
P20	电动座椅电机 (驾驶员座椅前垂直控制)	90980 - 10825
P21	电动座椅电机 (驾驶员座椅后垂直控制)	
P22	电动座椅电机 (驾驶员座椅倾斜控制)	
P23	电动座椅电机 (驾驶员座椅滑动控制)	
P24	电动座椅电机 (前乘员座椅倾斜控制)	
P25	电动座椅电机 (前乘员座椅滑动控制)	
P26	电动座椅电机 (腰部支撑)	
P27	电动座椅开关 (驾驶员座椅)	90980 - 10997
P28	电动座椅开关 (前乘员座椅)	
P29	电动座椅开关 (前乘员座椅)	90980 - 10801
P30	电动座椅开关 (腰部支撑)	90980 - 10789
P31	电源插座 (后)	90980 - 10859

注：上表没有提供全部连接器的零件号。

代码	零件名	零件号
P32	电源控制 ECU	90980 - 12388
P33	电源开关	90980 - 11989
P35	收音机总成	90980 - 12552
P36	收音机总成	90980 - 12038
P37	收音机总成	90980 - 12259
R 4	后电动座椅开关 (回位控制)	90980 - 11013
R 5	后遮阳帘开关	90980 - 10908
R 6	后视镜伸缩器开关	90980 - 11909
R 7	后组合灯 (左)	90980 - 12517
R 8	后组合灯 (左)	90980 - 10795
R 9	后组合灯 (右)	
R10	后组合灯 (右)	90980 - 12517
R11	左后门 ECU	90980 - 12150
R12	左后门 ECU	90980 - 12149
R13	右后门 ECU	
R14	右后门 ECU	90980 - 12150
R15	后座椅内安全带 (左)	90980 - 12366
R16	后座椅内安全带 (右)	
R17	后座椅外安全带 (左)	90980 - 11862
R18	后座椅外安全带 (左)	90980 - 11369
R19	后座椅外安全带 (右)	
R20	后座椅外安全带 (右)	90980 - 11862
R21	后遮阳帘继电器	90980 - 10789
R22	后窗除雾器	90980 - 10914
R23	后窗除雾器	
R24	后窗除雾器	90980 - 11259
R25	室内灯 (行李箱)	90980 - 11148
R26	后控制器	90980 - 11952
R27	后控制器	90980 - 10801
R28	收音机总成	90980 - 12551
S 1	安全喇叭	90980 - 10619
S 2	带执行器的制动防滑控制 ECU	90980 - 12297
S 4	速度传感器 (左前)	90980 - 11900
S 5	速度传感器 (右前)	
S 6	起动机	90980 - 09967
S 7	起动机	90980 - 11400
S 8	座椅加热器开关 (左前)	90980 - 12366
S 9	座椅加热器开关 (右前)	
S10	换档锁止控制 ECU	90980 - 12552
S11	扬声器 (中央)	90980 - 10860
S12	螺旋电缆	90980 - 12552
S13	转向传感器	90980 - 12162
S14	制动灯开关	90980 - 10795
S15	座椅位置存储器开关	90980 - 12366
S16	侧空气囊传感器 (左)	90980 - 12241
S17	侧空气囊传感器 (右)	
S18	侧空气囊引爆管 (左)	90980 - 11864
S19	侧空气囊引爆管 (右)	
S20	滑动天窗控制 ECU	90980 - 10801
S21	烟雾传感器	90980 - 10908
S22	扬声器 (左前门)	90980 - 10935
S23	扬声器 (右前门)	
S24	扬声器 (左后门)	
S25	扬声器 (右后门)	
S26	扬声器 (低音喇叭)	90980 - 11012
S27	速度传感器 (左后)	90980 - 11900
S28	速度传感器 (右后)	
S29	立体声功放组件	90980 - 10821
S30	立体声功放组件	90980 - 12554
S31	座椅加热器 (左前)	90980 - 10797
S32	座椅加热器 (右前)	
S33	座椅加热器 (后)	90980 - 10794
S34	转向锁止 ECU	90980 - 10799
S35	智能钥匙控制接收器	90980 - 12366
S36	智能钥匙 ECU	90980 - 12388
T 1	节气门体总成	90980 - 11858
T 2	变速器转速传感器 (齿轮)	90980 - 11156
T 3	变速器转速传感器 (涡轮)	
T 4	转向信号灯 (左前)	90980 - 11019
T 5	转向信号灯 (右前)	
T 6	转向信号灯 (左前侧)	90980 - 11875
T 7	转向信号灯 (右前侧)	
T 8	倾斜和伸缩 ECU	90980 - 11973
T 9	倾斜电机	90980 - 10797
T10	轮胎压力警告开关	90980 - 10906
T11	牵引力控制开关	90980 - 11471
T12	变速器控制开关	90980 - 12551
T13	收发器钥匙放大器	90980 - 12092
T14	收发器钥匙 ECU (带智能进入系统)	90980 - 12404
	收发器钥匙 ECU (不带智能进入系统)	90980 - 12423
T15	计程器开关	90980 - 11950
T16	转向信号闪光器	90980 - 10799
T17	高音喇叭 (左前)	90980 - 11013
T18	高音喇叭 (右前)	
T19	电视摄像头控制器	90980 - 12557
T20	电视摄像头控制器	90980 - 10997
T21	电视摄像头 (后)	90980 - 12211
U 1	未锁警告开关	90980 - 10795
V 1	VSV (ACIS)	90980 - 11162
V 2	VSV (EVAP)	90980 - 11156

L 连接器零件号

代码	零件名	零件号
V3	VSC 警告蜂鸣器	90980 - 10906
V4	梳妆灯（左）	-
V5	梳妆灯（右）	
V6	梳妆灯开关（左）	90980 - 12322
V7	梳妆灯开关（右）	
W1	水温传感器	90980 - 10735
W2	风挡玻璃洗涤器电机	90980 - 11019
W3	风挡玻璃刮水器电机	90980 - 11599
W4	无线门锁蜂鸣器	90980 - 11142
W5	线束轴	90980 - 11926
W6	线束轴	
Y1	偏移率传感器	90980 - 11904

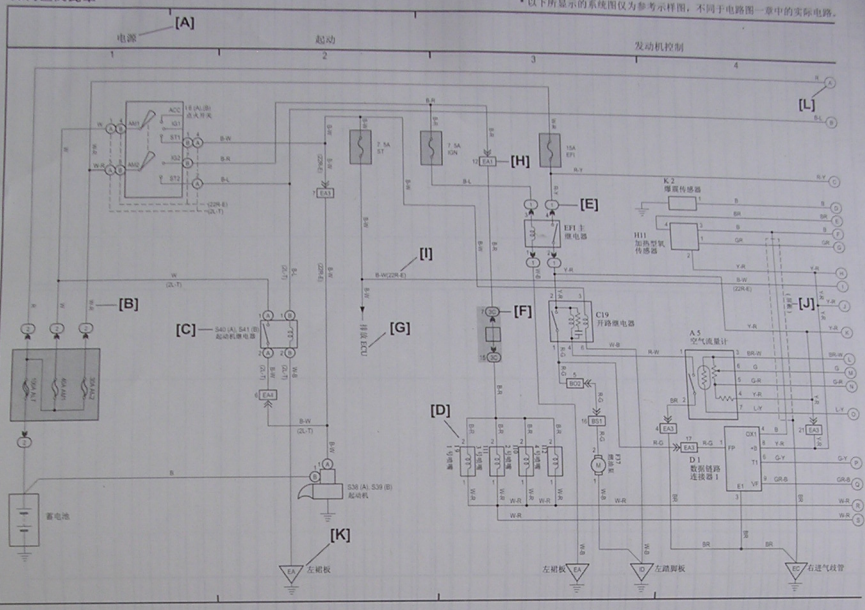
代码	零件名	零件号

代码	零件名	零件号

代码	零件名	零件号

注：上表没有提供全部连接器的零件号。

• 以下所显示的系统图仅为参考示样图，不同于电路图一章中的实际电路。



[A] ：系统名称

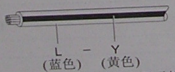
[B] ：表示配线颜色。

配线颜色由字母表示。

B = 黑色	W = 白色	BR = 棕色
L = 蓝色	V = 紫色	SB = 天蓝色
R = 红色	G = 绿色	LG = 浅绿色
P = 粉色	Y = 黄色	GR = 灰色
O = 橙红		

第一个字母表示基本配线颜色，第二个表示条纹的颜色。

例： L - Y

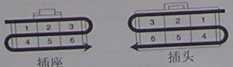


[C] ：零件位置与电路图和配线路径中显示的一致。

[D] ：表示连接器引脚数。

插头插座连接器的编号系统互不相同。

例： 从左上到右下编号　　从右上到左下编号



总电路图的编号系统与上面相同。

[E] ：表示继电器盒。用无阴影表示且只给出继电器盒号以区别接线盒。

例： ① 表示 1 号继电器盒

[F] ：接线盒内部连接（用阴影表示且只给出接线盒号以区别旁边）。

接线盒用阴影标出，将它和其它零件区别开来。

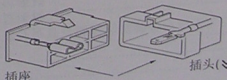
例：

3C 表示它在 3 号接线盒内部

[G] ：表示相关系统。

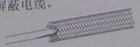
[H] ：表示线束和线束连接器。带插头端子的线束以箭头(≫)表示。

外侧数字为引脚数。



[I] ：车辆型号、发动机类型或规格不同时用 ( ) 表示不同的配线和连接器。

[J] ：表示屏蔽电缆。



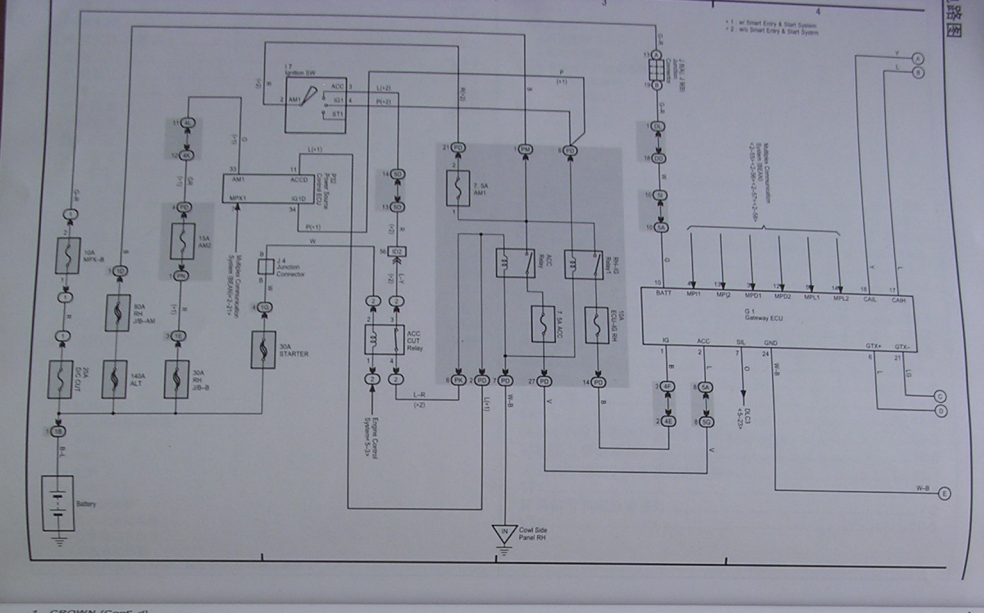
[K] ：表示并显示接地点。

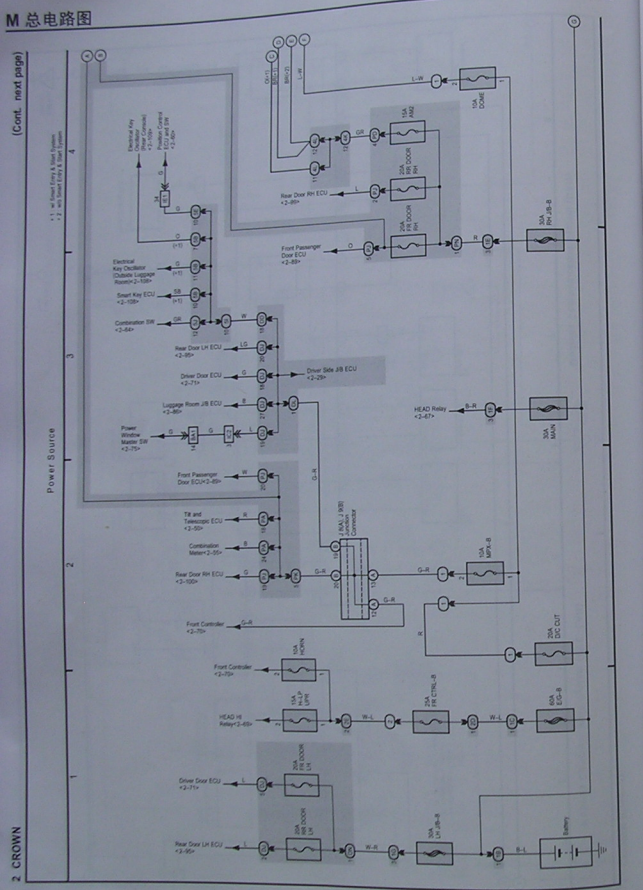
[L] ：出现在下页中的相同代码显示线束连续。

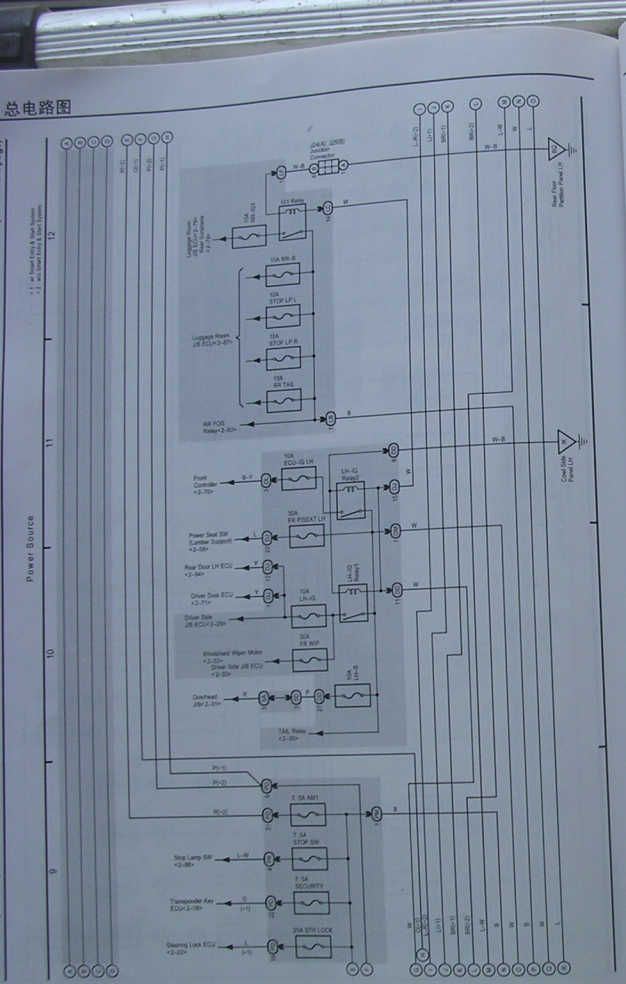
系统索引

系统	位置
空调 (前)	26-5
空调 (后)	27-2
音响系统	24-3
蜂窝式移动电话	23-3
充电	3-3
点烟器	19-3
时钟	20-3
组合仪表	25-3
冷却风扇	22-2
巡行控制	6-5
ECT 和 A/T 指示器	6-7
电子张紧力调节器	18-3
发动机控制	5-3
发动机停机系统 (不带智能进入和起动系统)	5-24
EPS	12-4
前窗除冰器	21-3
加油口盖开启器	25-8
前照灯方向控制	9-3
前照灯清洁器	8-2
点火	4-2
多路通信系统 (AVC-LAN)	1-3
多路通信系统 (BEAN)	2-15
* 自动灯控	
* 倒车灯	
* 门锁控制	
* 前雾灯	
* 前刮水器和洗涤器	
* 前照灯	
* 喇叭	
* 照明	
* 车内灯	
* 钥匙提醒器	
* 灯自动关闭系统	
* 行李箱门开启器	
* 后视镜加热器	
* 电动座椅 (带驾驶位置存储器的驾驶员座椅)	

系统	位置
* 电动倾斜和伸缩	
* 电动窗	
* 后雾灯	
* 后遮阳帘	
* 遥控后视镜	
* 智能进入和起动系统	
– 发动机停机	
– 按钮起动	
– 转向锁止	
– 无线门锁	
* 制动灯	
* 尾灯	
* 防盗	
* 无线门锁控制 (带智能进入和起动系统)	
多路通信系统 (CAN)	1-6
导航系统	23-3
电源插座	19-4
电动座椅 (不带驾驶位置存储器的驾驶员座椅)	14-2
电动座椅 (前乘员座椅)	14-3
电动座椅 (后乘员座椅)	15-2
电源	1~27-1
后窗除雾器	22-3
座椅安全带警告	11-7
座椅加热器 (前)	16-3
座椅加热器 (后)	17-3
换档锁止	17-2
滑动天窗	13-2
SRS	11-2
起动 (不带智能进入和起动系统)	3-2
轮胎压力警告系统	10-5
丰田驻车辅助 (倒车导控监视器)	23-3
TRC	10-5
转向信号和应急警告灯	7-2
VSC	10-5


Multiplex Communication System (AVC-LAN)
Multiplex Communication System (CAN)
5
6
7
8
* 3 : w/ Navigation System
* 4 : w/o Navigation System
* 5 : w/ TOYOTA Parking Assist (Back Guide Monitor)
R 1(A), R 2(B), R 3(C)
Radio Receiver Assembly
T19
Television Camera Controller
D 2
DLC3
Y 1
Yaw Rate Sensor
E 2
Engine ECU
J10(A), J11(B), J12(C), J13(D), J14(E), J15(F), J31(G)
Junction Connector
J18(A), J17(B), J16(C), J32(D), J33(E)
Junction Connector
S30
Stereo Component Amplifier
I 9
Integration Control and Panel Assembly
Multi-Display
Module (VSM)
D13
Steering Sensor
D 2
Skid Control ECU with Actuator
P 1
Power Steering ECU
O14
Clock
Cowl Side Panel
Cowl Side Panel LH
W-B


(Cont. next page)
Power Source
2 CROWN
* 1 : w/ Smart Entry & Start System
* 2 : w/o Smart Entry & Start System
Electrical Key Oscillator (Driver Door), Electrical Key Oscillator (Outside Luggage Room)
Position Control ECU and SW
Rear Door RH ECU
Front Passenger Door ECU
Electrical Key Oscillator (Outside Luggage Room)
Smart Key ECU
Combination SW
Rear Door LH ECU
Driver Door ECU
Luggage Room J/B ECU
Power Window Master SW
Driver Side J/B ECU
HEAD Relay
Front Passenger Door ECU
Tilt and Telescopic ECU
Combination Meter
Rear Door RH ECU
Front Controller
Front Controller
Front Controller
HEAD HI Relay
Driver Door ECU
Rear Door LH ECU
Battery
10A DOME
15A AM2
20A RR DOOR
20A FR DOOR
30A RR J/B-B
30A MAIN
10A MPX-B
30A CUT
10A HORN
10A H-LP RHI
20A FR CTRL-B
60A ALT-B
7A DR DOOR LH
30A RR DOOR
30A LH J/B-B
Junction Connector
Driver Door J/B
Engine Room J/B
Cowl Side J/B
Instrument Panel J/B
Rear Door J/B
Luggage Room J/B
Engine Room R/B
Instrument Panel J/B
Rear Door J/B
Luggage Room J/B
Cowl Side J/B
Engine Room R/B
Driver Door J


Power Source
Multiplex Communication System (BEAN)
J/C(A), J/B(B) Junction Connector
Rear Floor Partition Panel LH
Rear Side of Front Left Fender Apron
Front Controller
Power Seat SW (Lumber Support)
Rear Door LH ECU
Driver Door ECU
Driver Side J/B ECU
Windshield Wiper Motor
Overhead J/B
Stop Lamp SW
Transponder Key ECU
Steering Lock ECU
Luggage Room J/B ECU
Rear Combination Lamp LH
Luggage Room J/B ECU
Rear Combination Lamp RH
RR FOG Relay
Dual Stage Airbag
Front Seat Belt Pretensioner
Front Seat Belt Pretensioner
Front Seat Belt Pretensioner

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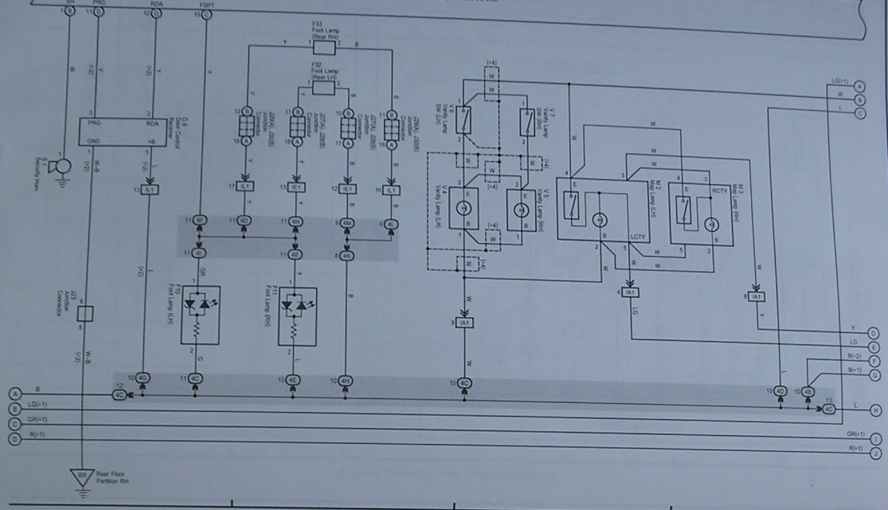
Multiplex Communication System (BEAN)

25 26 27 28

< 1 : w/ Smart Entry & Start System
> 2 : w/o Smart Entry & Start System
< 4 : Shielded

F12(A), F13(B), F14(C), F15(D)
Front Passenger's Side J/B ECU



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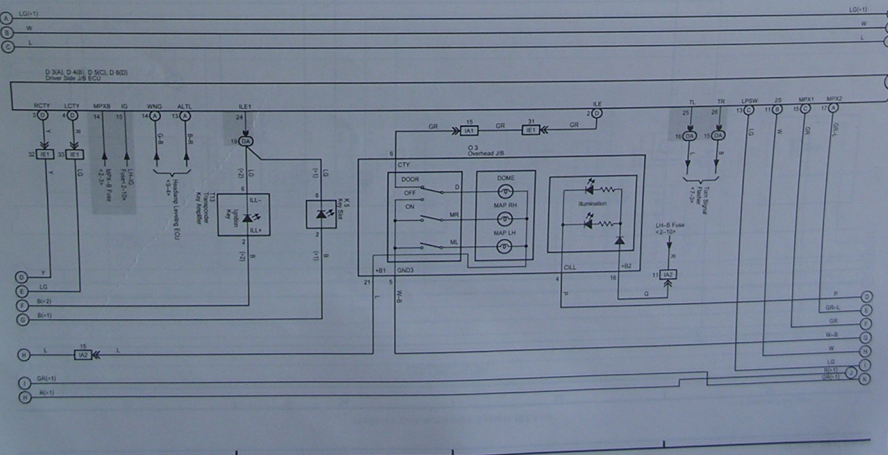
Multiplex Communication System (BEAN)

29 30 31 32

< 1 : w/ Smart Entry & Start System
> 2 : w/o Smart Entry & Start System

F12(A), F13(B), F14(C), F15(D)
Front Passenger's Side J/B ECU

D 3(A), D 4(B), D 5(C), D 6(D)
Driver Side J/B ECU



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Multiplex Communication System (BEAN)

33 34 35 36

* 1 : w/ Smart Entry & Start System

F12(A), F13(B), F14(C), F15(D)
Front Passenger's Side J/B ECU

D 3(A), D 4(B), D 5(C), D 6(D)
Driver Side J/B ECU

IGPT 14 (G) — IG2 24 (G)

LG(-1) W L

W/O B-W B-R +2 BACK GND R/GND PFSW ILL

LH J/B-AM Fuse-2 <10>

TAIL Relay

7.5A PANEL

Rear Blower Assembly

Heater Control Assembly

Security Indicator

W 3 Windshield Wiper Motor

Multi-Delay <23> 5b

Wiper Fuse <5>

Junction Connector J7

Rear Side of Front Left Fender Apron

Cowl Side Panel LH

Right Side of Shift Lever

(Cont. next page)

Multiplex Communication System (BEAN)

37 38 39 40

* 1 : w/ Smart Entry & Start System
* 3 : w/o Navigation System
* 5 : w/o Navigation System

F12(A), F13(B), F14(C), F15(D)
Front Passenger's Side J/B ECU

LG(-1) W L G Y

R/B Junction Block

Rear Blower Control and Panel Assembly

M 4 Mode Damper

H11 Passenger Side Damper SW

T10 Illumination Control SW

Audio System <2> 5a

EAU

S13 Shift Lock

Cigar Lighter

Clock

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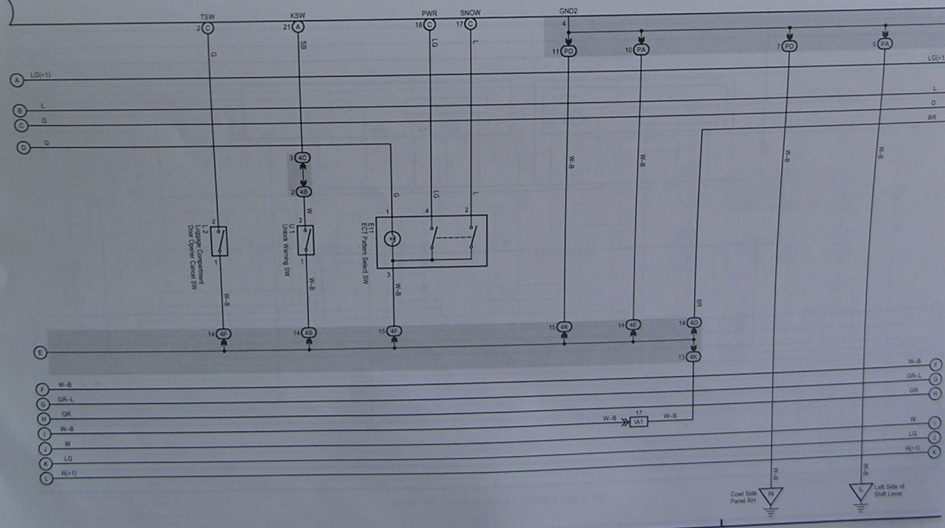
Multiplex Communication System (BEAN)



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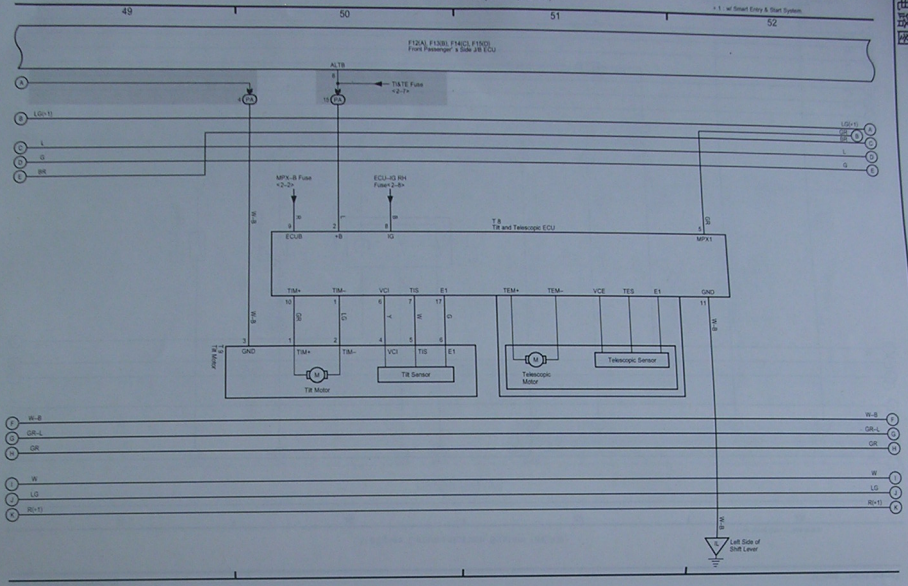
Multiplex Communication System (BEAN)



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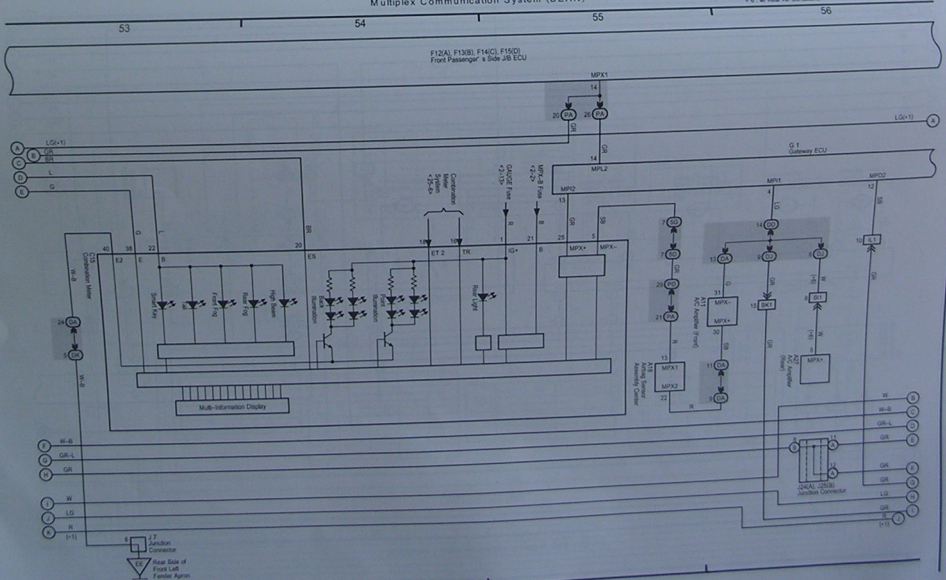
Multiplex Communication System (BEAN)



(Cont. next page)

Multiplex Communication System (BEAN)

57 58 59 60

< 1 >: w/ Smart Entry & Start System
< 2 >: w/o Smart Entry & Start System

F12(A), F13(B), F14(C), F15(D)
Front Passenger's Side J/B ECU

LG(+1)

G1
Gateway ECU

MPX1 MPX2

FR P/SEAT LH Fuse<1-10>

ECU-IG RH Fuse<1-8>

MPX-B Fuse<2-4>

CLTB CLTS CLTE

ACC Power Outlet

P/W Power Window Regulator Master SW

P30
Power Seat SW (Lumber Support)

P18(A), P19(B)
Position Control ECU and SW

P26
Power Seat Motor (Lumbar Support)

J27(A), J28(B)
Junction Connector

P21
Power Seat Motor (Driver's Seat Rear Vertical Control)

P20
Power Seat Motor (Driver's Seat Front Vertical Control)

P23
Power Seat Motor (Driver's Seat Slide Control)

P22
Power Seat Motor (Driver's Seat Reclining Control)

Under the Driver's Seat

2 CROWN (Cont' d)

(Cont. next page)

Multiplex Communication System (BEAN)

61 62 63 64

< 1 >: w/ Smart Entry & Start System

F12(A), F13(B), F14(C), F15(D)
Front Passenger's Side J/B ECU

HEAD MPX2

C16(A), C17(B)
Combination SW

Tilt and Telescope SW

Down
Short
Up
Long

Wiper SW

	EW	OFF	INT	LO	HI	MIST
MIST						
OFF						
INT						
LO						
HI						

Washer SW

	W	EW
OFF		
ON		

ECU-IG RH Fuse<2-8>

MPX-B Fuse<2-3>

HEAD MPX1

MPX2

HORN

Horn

Fog SW

	LFG	RFG	B
OFF			
Fr			
Rr			

Turn SW

	CR	TR	TL	EL
CR				
R				
RLC				
N				
LLC				
CR				

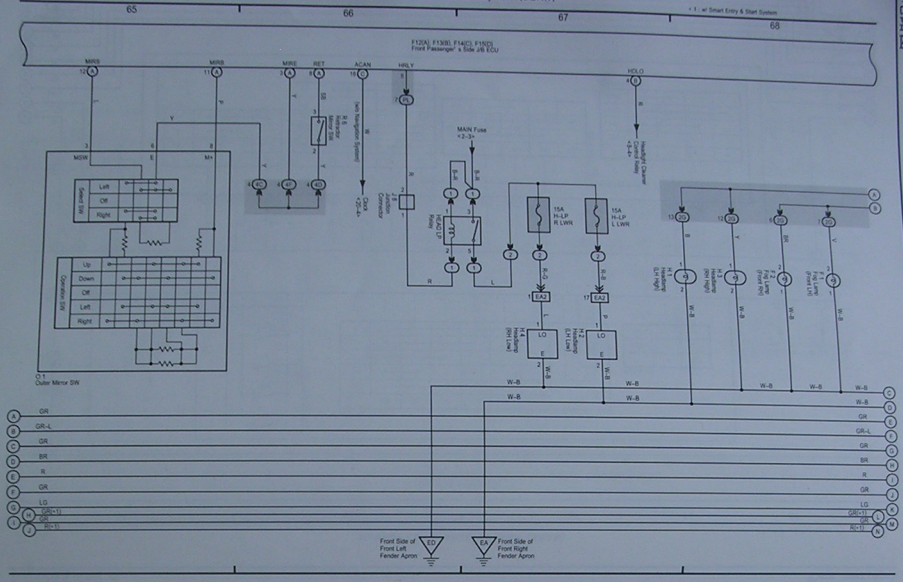
Dimmer SW

	EL	HU	HF	(HL)
HF				
HL				
HU				

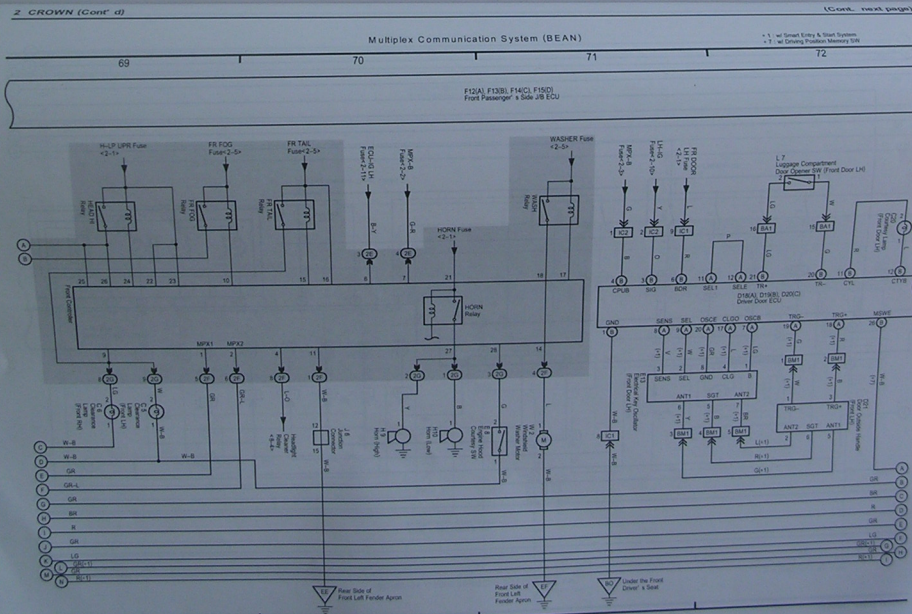
Light Control SW

	EL	A	T	H
OFF				
TAIL				
HEAD				
AUTO				

Multiplex Communication System (BEAN)



Multiplex Communication System (BEAN)



(Cont. next page)

Multiplex Communication System (BEAN)

73 74 75 76

* 1 : w/ Smart Entry & Start System
* 7 : w/ Driving Position Memory SW

F12(A), F13(B), F14(C), F15(D)
Front Passenger's Side J/B ECU

SB(+1)
W
Y
V
W-B
GR
MPX-B Fuse
<2-3>
P10
Power Window Master SW
D18(A), D19(B), D20(C)
Driver Door ECU
Outer Rear View Mirror LH
Mirror Actuator
Mirror Motor
Lens Heater
D13
Door Lock Assembly (Driver's Side)
Motor
Door Lock Switch
Door Unlock Switch
S15
Seat Memory SW
W-B(+7)
GR
BR
R
LG
GR(+1)
R(+1)

(Cont. next page)

Multiplex Communication System (BEAN)

77 78 79 80

* 1 : w/ Smart Entry & Start System

F12(A), F13(B), F14(C), F15(D)
Front Passenger's Side J/B ECU

SB(+1)
SB
W
Luggage Room J/B ECU
ACC Fuse
<2-7>
RR-IG1 Fuse
<2-12>
P10
Power Window Master SW
P11
Power Window Regulator Motor (Driver's Side)
R26(A), R27(B)
Rear Controller
Rear Sunshade SW
Rear Sunshade
R21
Rear Sunshade Relay
Rear Floor Partition Panel LH
GR
BR
LG
GR(+1)
R(+1)

Multiplex Communication System (BEAN)

* 1 : w/ Smart Entry & Start System
* 8 : w/ Rear Sunshade
* 9 : w/o Rear Sunshade

81 82 83 84

F12(A), F13(B), F14(C), F15(D)
Front Passenger's Side J/B ECU

Luggage Room J/B ECU

W 5(A), W 6(B)
Wiring Harness Spool

J26
Junction Connector

J28
Junction Connector

J29
Junction Connector

RR J/B
Fuse<1-11>

RR FOG
Relay

7.5A
RR FOG

R15
Rear Combination
Lamp (RH)

R17
Rear Combination
Lamp (LH)

R14
Rear Combination
Lamp (RH)

R16
Rear Combination
Lamp (LH)

Back Up
Lamp (RH)

Back Up
Lamp (LH)

License Plate
Lamp (RH)

License Plate
Lamp (LH)

Rear Fog
Lamp (RH)

Rear Fog
Lamp (LH)

Multiplex Communication System (BEAN)

* 1 : w/ Smart Entry & Start System

85 86 87 88

F12(A), F13(B), F14(C), F15(D)
Front Passenger's Side J/B ECU

Luggage Room J/B ECU

W 5(A), W 6(B)
Wiring Harness Spool

J26
Junction Connector

J28
Room Lamp
(Luggage)

J29
Junction Connector

Stop SW Fuse
<2-8>

Stop Lamp
SW

Trailer ECU

Shift Lock
Control
ECU<17-3>

Skid Control
ECU with
Actuator<10-8>

Back Door
Lock Assembly
(Luggage)

Back Door
Lock Motor

Back Door
Lock Opener

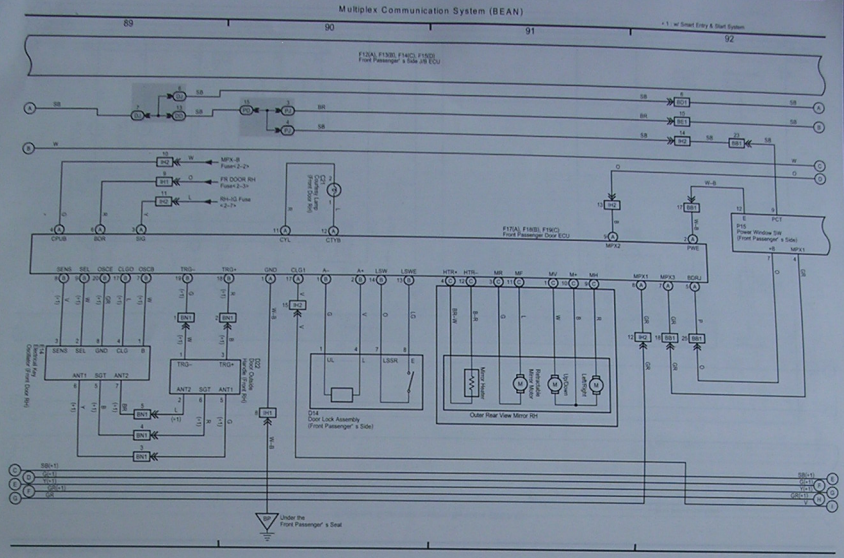
Back Door
Lock

License Plate
Lamp (RH)

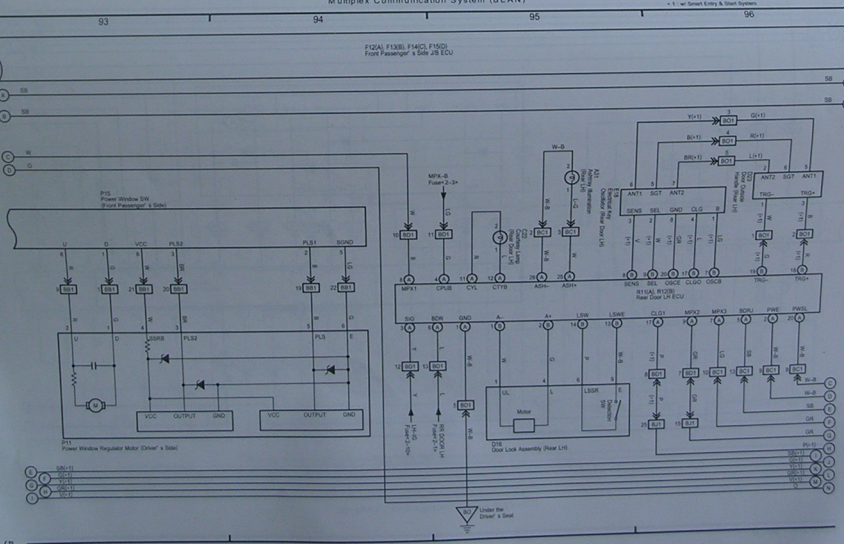
License Plate
Lamp (LH)

(Cont. next page)

Multiplex Communication System (BEAN)



Multiplex Communication System (BEAN)



(Cont. next page)

Multiplex Communication System (BEAN)

97 98 99 100

* 1 : w/ Smart Entry & Start System

F12(A), F13(B), F14(C), F15(D)
Front Passenger's Side J/B ECU

P16
Power Window SW (Rear LH)

P13
Power Window Regulator Motor (Rear LH)

R13(A), R14(B)
Rear Door RH ECU

Under the Front Passenger's Seat

Multiplex Communication System (BEAN)

101 102 103 104

* 1 : w/ Smart Entry & Start System

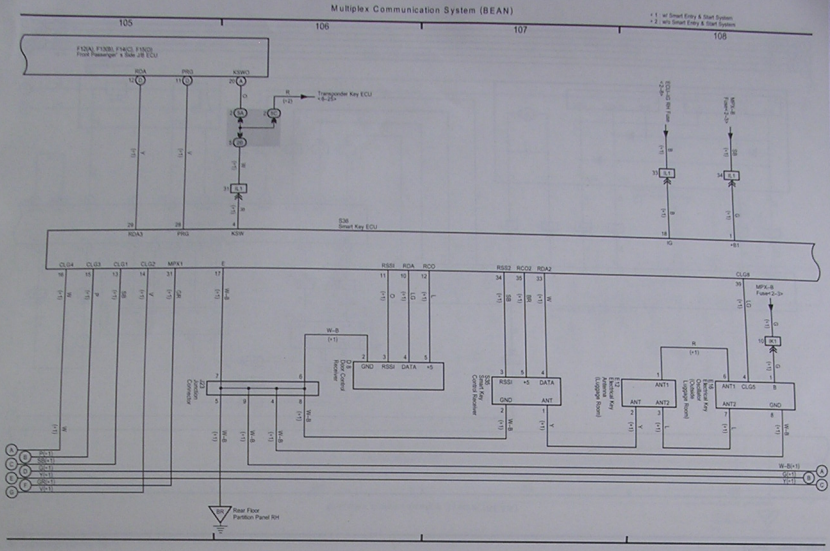
F12(A), F13(B), F14(C), F15(D)
Front Passenger's Side J/B ECU

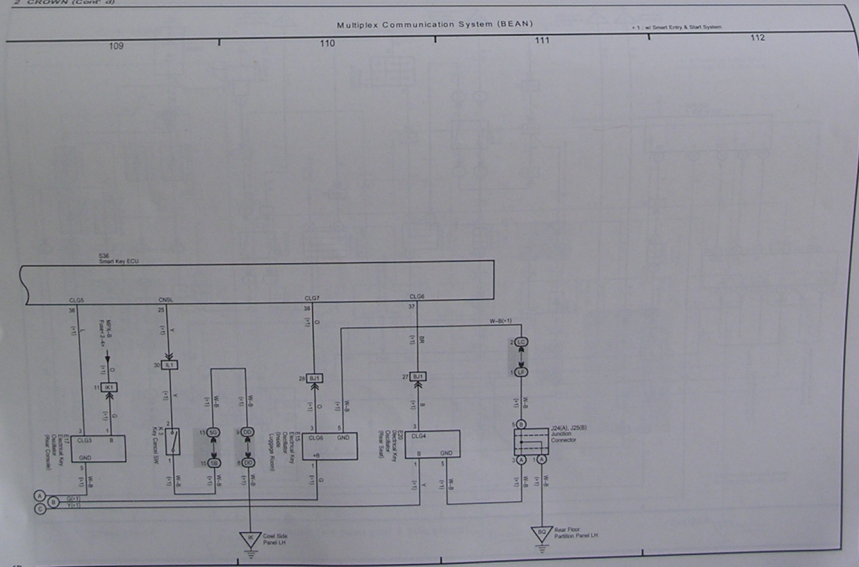
P17
Power Window SW (Rear RH)

P14
Power Window Regulator Motor (Rear RH)

R13(A), R14(B)
Rear Door RH ECU

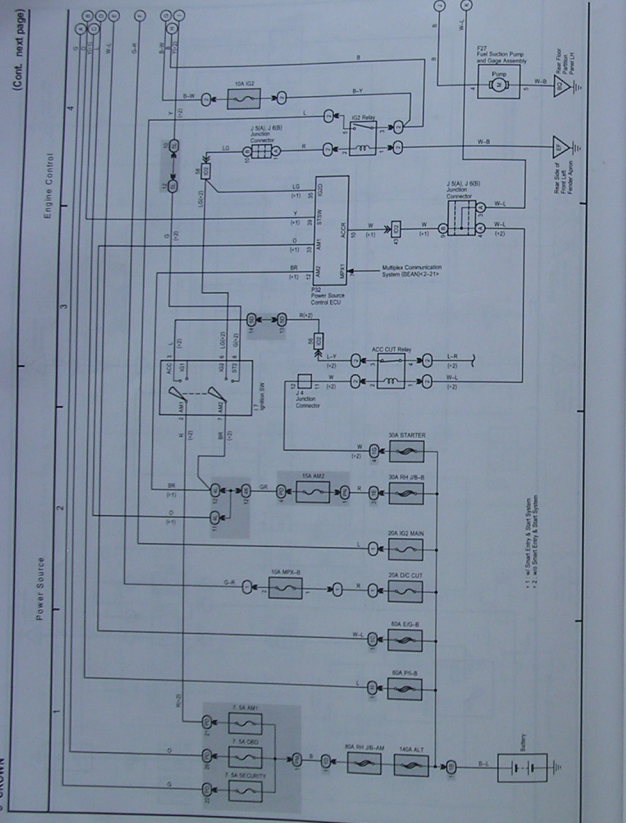
D12
Door Lock Assembly (Rear RH)


Multiplex Communication System (BEAN)
105
106
107
108
* 1 : w/ Smart Entry & Start System
* 2 : w/o Smart Entry & Start System
F12(A), F13(B), F14(C), F15(D)
Front Passenger's Side J/B ECU
Transponder Key ECU
S36
Smart Key ECU
Rear Floor
Partition Panel RH

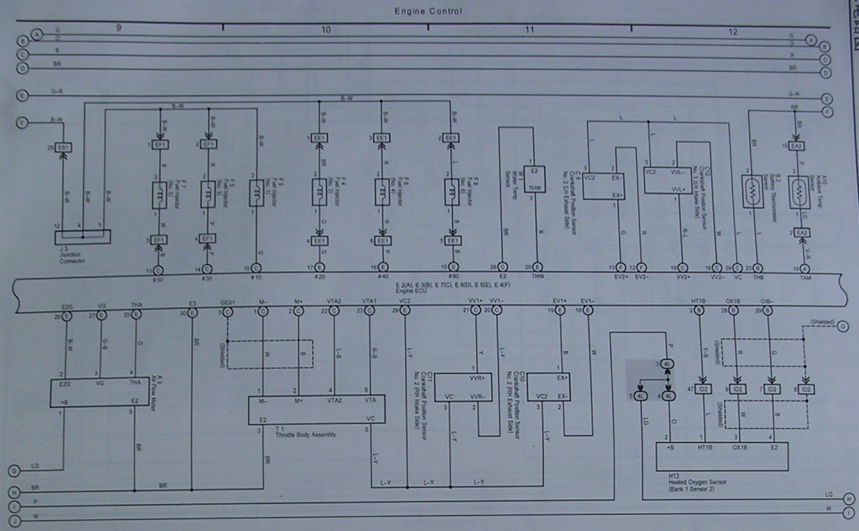

Multiplex Communication System (BEAN)
* 1 : w/ Smart Entry & Start System
109
110
111
112
S36
Smart Key ECU
Coat Side
Panel LH
Rear Floor
Partition Panel LH

Power Source
Ignition
Engine ECU<5-17>
Engine ECU<5-18>
Multiplex Communication System (BEAN)<2-21>
Battery
15A AM2
10A IG2
IG2 Relay
30A RH JIS-B
20A IG2 MAIN

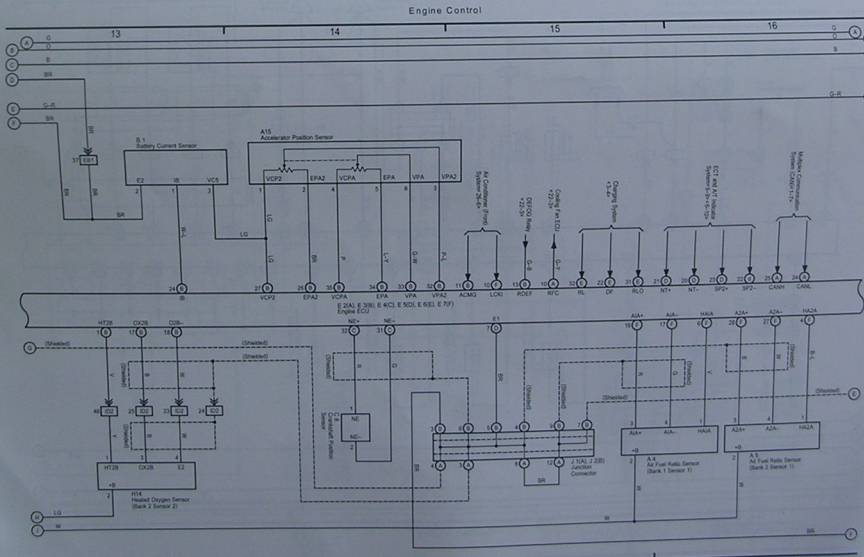
Power Source
Starting (w/o Smart Entry & Start System)
Charging
Multiplex Communication System (CAN)<1-7>
Engine Control System <5-8><5-12><5-13><5-14>
Multiplex Communication System (BEAN)<2-21>
Engine ECU <5-8>
Battery
30A STARTER
30A RH JIS-B
80A RH JIS-AM
80A LH JIS-AM
140A ALT
7.5A AM1
15A AM2


(Cont. next page)
Engine Control
Power Source
5 CROWN
10A IG2
IG2 Relay
J 5(A), J 6(B) Junction Connector
F27 Fuel Suction Pump and Gage Assembly
Pump
Rear Door Switch Panel LH
Rear Side of Front Left Fender Apron
Multiplex Communication System (BEAN)<2-21>
P32 Power Source Control ECU
ACC CUT Relay
J 4 Junction Connector
Ignition SW
30A STARTER
15A AM2
30A RH J/B-B
25A IG2 MAIN
10A MPX-B
25A DIC CUT
60A E/G-B
50A P/S-B
7.5A AM1
7.5A OBD
7.5A SECURITY
80A RH J/B-AM
140A ALT
Battery
• 1: w/ Smart Entry & Start System
• 2: w/o Smart Entry & Start System
(Cont. next page)
Engine Control
5 CROWN (Cont' d)
Stop Lamp SW <2-88>
Power Source Control ECU<3-3>
Ignition SW<2>
Neutral Start SW <3-2>
V2 VSV (EVAP)
V1 VSV (ACIS)
J 5(A), J 6(B) Junction Connector
15A NO. 2
J 4 Junction Connector
10A ETCS
15A A/F
A/F Relay
F 9 Fuel Pump Resistor
C/OPN Relay
F/PMP Relay
EFI NO. 2 Relay
25A F/PMP
EFI MAIN Relay
25A EFI
J 5(A), J 6(B) Junction Connector
Rear Side of Front Left Fender Apron

Engine Control



Engine Control



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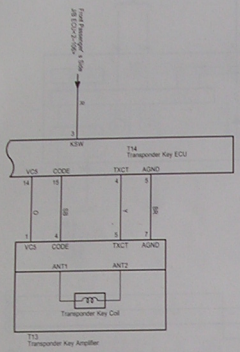
Engine Immobilizer System (w/o Smart Entry & Start System)

25 26 27 28



(Cont. next page)

Power Source

10A LH-IG
LH.-IG Relay 1
7.5A RH-IG
RH.-IG Relay 1
7.5A AM1
ACC
IG1
IG2
ST
Ignition SW
J 5(A), J 6(B) Junction Connector
IG2 Relay
20A IG2 MAIN
10A RAD
30A RH J/B-B
50A RH J/B-AM
140A ALT
50A LH J/B-AM
60A PIS-B
15A ETCS
60A EJG-B
10A MPX-B
20A DIS CUT
Battery
Multiplex Communication System (BEAN)×2–21×
PS2 Power Source Control ECU
Front Door Power SW
Front Door Power SW
Rear Door Power SW
Front Door Front Left Power Apmn
Front Door Front Right Power Apmn
Left Side of Cowl Wire
Right Side of Cowl Wire

568

6 CROWN

(Cont. next page)

Cruise Control

ECT and A/T Indicator

Engine Control System (1JZ-GE, 2JZ-GE)
Multiplex Communication System (CAN)×1–7×
EFI MAIN Relay
25A EFI
J 1(A), J 2(B) Junction Connector
J 1(A), J 2(B) Junction Connector
J 5(A), J 6(B) Junction Connector
J 4 Junction Connector
T12 Spiral Cable
Cruise Control SW
T12 Transmission Control SW
Left Side of Cowl Wire
Right Side of Cowl Wire
Front Door Front Left Power Apmn

569

6 CROWN (Cont. d)

ECT and A/T Indicator
9
10
11
12
CRUISE
ECT SNOW
ECT PWR
C28
Combination Meter
J/B(J, J/B)
Junction Block
Connector
Multiplex
Communication
System (BEAN=2-55>
MPX+
MPX-
T2
Transmission Revolution
Sensor (Counter Gear)
SP2+
SP2-
T3
Transmission Revolution
Sensor (Turbine)
N2+
N2-
N-1
Neutral Start S/W
E4
(2WD, E-BIB, E-4EC, E-BSS, E-BELT, P/P)
(4WD, E-BIB, E-4EC, E-BSS, E-BELT, P/P)
E2
O
SLU-
SLU+
SL1-
SL1+
SL2-
SL2+
SP2+
SP2-
N2+
N2-
E1
ECT Solenoid
BR
G-Y
L-R
L-Y
L
Y
G-B
B
G-R
G
W
R
G-W
L-W
V
SB
LG
GR

Power Source
Turn Signal and Hazard Warning Light
R10
Rear Combination Lamp (R10)
R11
Rear Combination Lamp (LH)
J24(A), J25(B)
Junction Connector
Rear Floor Partition Panel LH
Front Passenger's Side J/B (ECU-2-24)
I 8
Instrument Panel Register Assembly
Hazard SW
T16
Turn Signal Flasher
Driver Side J/B (ECU-2-32)
Cowl Side Panel LH
15A LH-IG
LH-IG Relay 1
Left Side of Shift Lever
Ignition SW
Power Source Control ECU
Multiplex Communication System (BEAN)
7.5A AM1
15A AM2
30A RH JIB-B
80A RH JIB-AM
80A LH JIB-AM
140A ALT
Battery
15A TURN-HAZ

T7
Turn Signal Lamp (Front Side RH)
C15
Combination Meter
Turn RH
Turn LH
T8
Turn Signal Lamp (Front Side LH)
T5
Turn Signal Lamp (Front RH)
T4
Turn Signal Lamp (Front LH)
Rear Side of Front Fender Apron
Front Side of Front Fender Apron

Power Source
Headlight Cleaner
Front Passengers' Side J/B ECU<2-67>
Front Controller <2-70>
Headlamp Cleaner Control Relay
Headlamp Cleaner Motor
Rear Side of Front Left Fender Apron
HEAD LP Relay
J 8(A), J 9(B) Junction Connector
Multiplex Communication System (BEAN)<2-67>
LH-IG Relay 1
10A LH-IG
Front Side Panel LH
Left Side of Shift Lever
P32 Power Source Control ECU
Multiplex Communication System (BEAN)<2-21>
Ignition SW
15A AM2
30A RH J/B-B
7.5A AM1
80A RH J/B-AM
80A LH J/B-AM
140A ALT
Battery
30A H-LP CLN
60A E/G-AM
30A MAIN

Power Source
Headlight Beam Level Control
(Cont. next page)
*1: w/ Smart Entry & Start System
*2: w/o Smart Entry & Start System
H7 Headlamp Leveling Motor LH
H8 Headlamp Leveling ECU
Skid Control ECU with Actuator<10-10>
Driver Side J/B ECU <2-29>
DLC3 <5-23>
J 8(A), J 9(B) Junction Connector
HEAD LP Relay
J 8(A), J 9(B) Junction Connector
Multiplex Communication System (BEAN)<2-67>
P32 Power Source Control ECU
Multiplex Communication System (BEAN)<2-21>
J 5(A), J 6(B) Junction Connector
IG2 Relay
Rear Side of Front Left Fender Apron
LH-IG Relay 1
7.5A H-LP LVL
Front Side Panel LH
Left Side of Shift Lever
Ignition SW
15A AM2
30A RH J/B-B
7.5A AM1
80A RH J/B-AM
80A LH J/B-AM
140A ALT
Battery
30A MAIN
20A IG2 MAIN

Headlight Beam Level Control
C15
Combination Meter
Multiplex Communication System (BEAN=2-55>
MPX1
Beam Level
7.5A GAUGE
Left Side of Dash Level
Driver Side Panel RH
H1
Headlight Leveling Motor (RH)
H52
Headlight Leveling ECU
H53
Height Control Sensor

Power Source
(Cont. next page)
10A ECU-IG LH
LH-IG Relay 2
7.5A GAUGE
Multiplex Communication System (BEAN=2-21<
Power Source Control ECU
J 5(A), J 6(B) Junction Connector
IG2 Relay
Ignition SW
20A IG2 MAIN
30A RH J/B-B
15A AM2
7.5A AM1
80A RH J/B-AM
80A LH J/B-AM
140A ALT
30A ABS2
50A ABS1
20A D/C CUT
Battery
J 8(A), J 9(B) Junction Connector
10A MPX-B
Left Side of Dash Lower
Driver Side Dash Lower
Rear Side of Front Left Floor Apron
* 1 : w/ Smart Entry & Start System
* 2 : w/o Smart Entry & Start System

(Cont. next page)

TRC, VSC and Tire Pressure Warning System

S28 Speed Sensor (Rear RH)

S27 Speed Sensor (Rear LH)

J12 VSC Warning Buzzer

J3 Junction Connector

S.2 Skid Control ECU with Actuator

S 5 Speed Sensor (Front RH)

S 4 Speed Sensor (Front LH)

Stop Lamp SW <2-6B>

Parking Brake SW <2-24>

ABS MOTOR1 Relay

ABS MOTOR2 Relay

S13 Steering Sensor

Multiplex Communication System (CAN)<1-6>

Y1 Yaw Rate Sensor

Multiplex Communication System (CAN)<1-7>

TRC, VSC and Tire Pressure Warning System

Multiplex Communication System (BEAN)<2-55>

Speedometer

Combination Meter System<2B-5>

Slip Indicator

ABS Warning

VSC Warning

C16 Combination Meter

J7 Junction Connector

Rear Side of Front Left Fender Apron

Rear Side of Front Left Fender Apron

Multiplex Communication System (CAN)<1-7>

Headlamp Leveling ECU <9-4>

S.2 Skid Control ECU with Actuator

B 5 Brake Pedal Road Sensing SW

T11 Traction Control SW

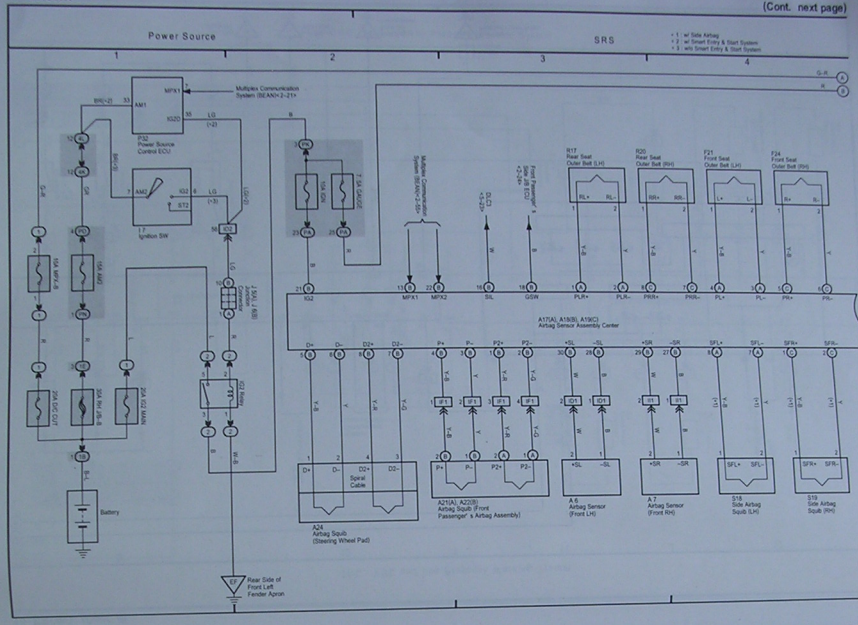
T10 Tire Pressure Warning SW

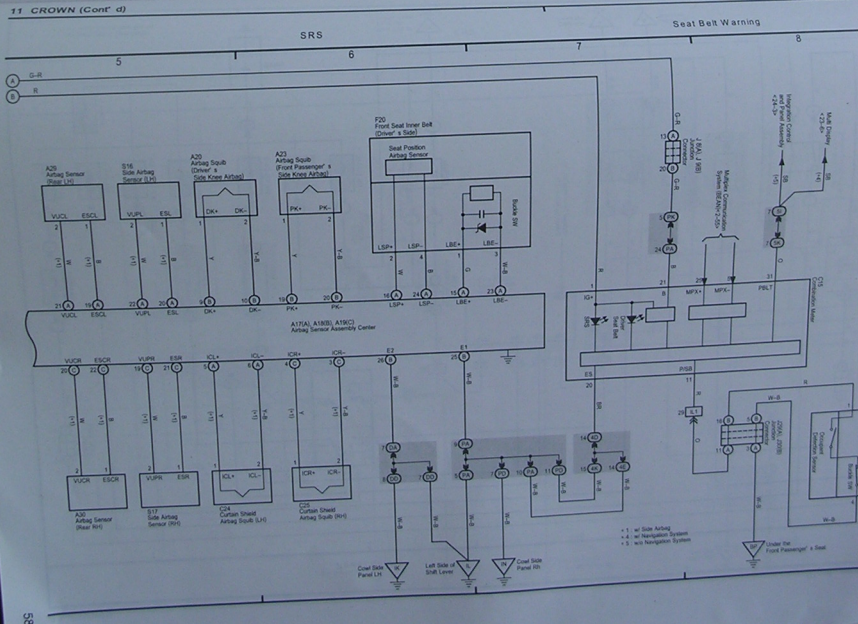
DLC3 <5-23>

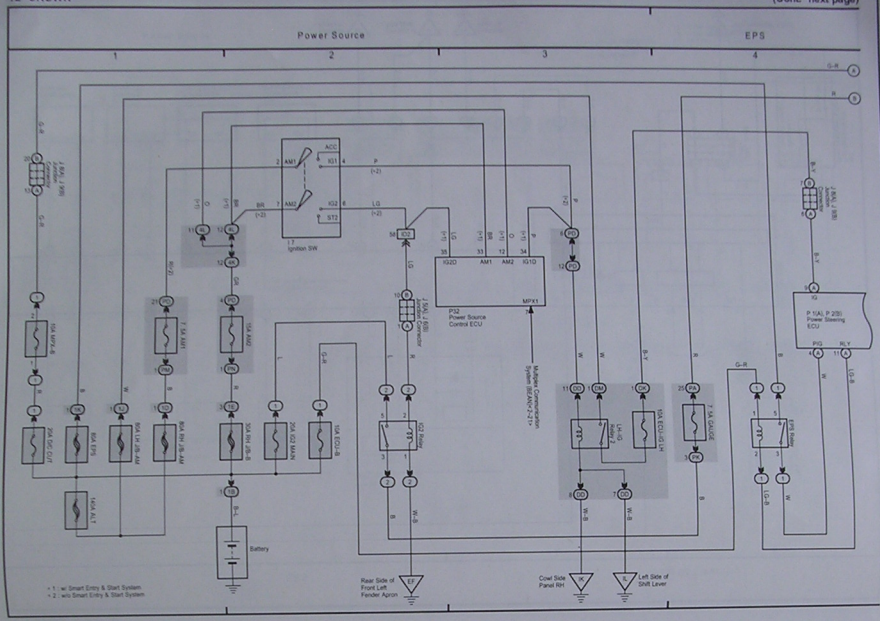
Left Side of Shift Lever

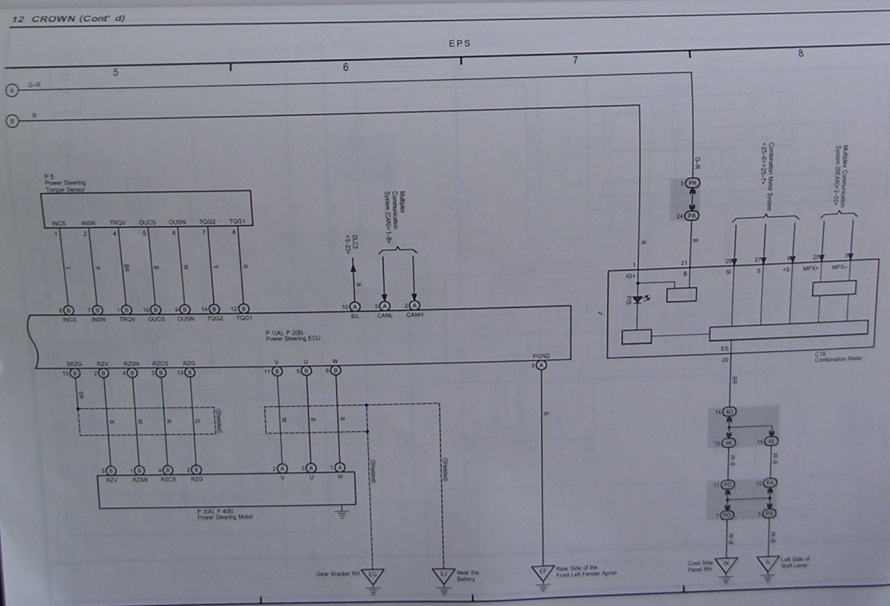
Left Side of Front Floor

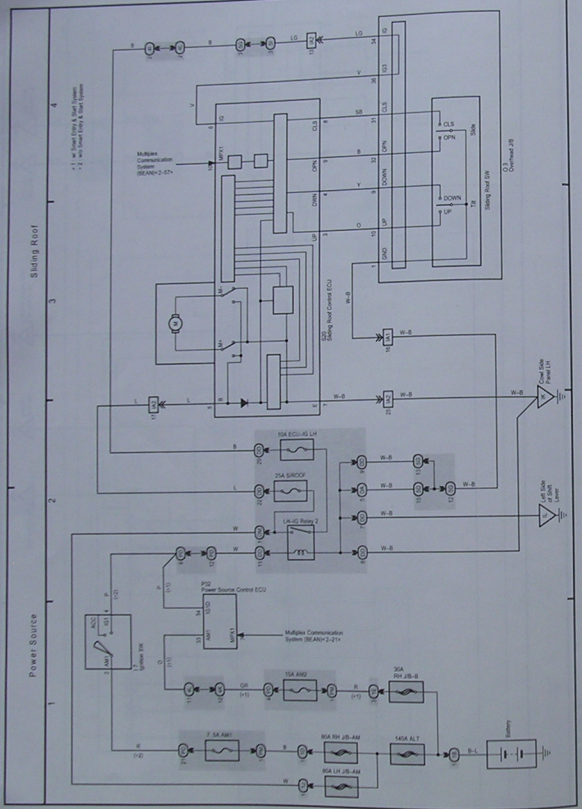
(Cont. next page)

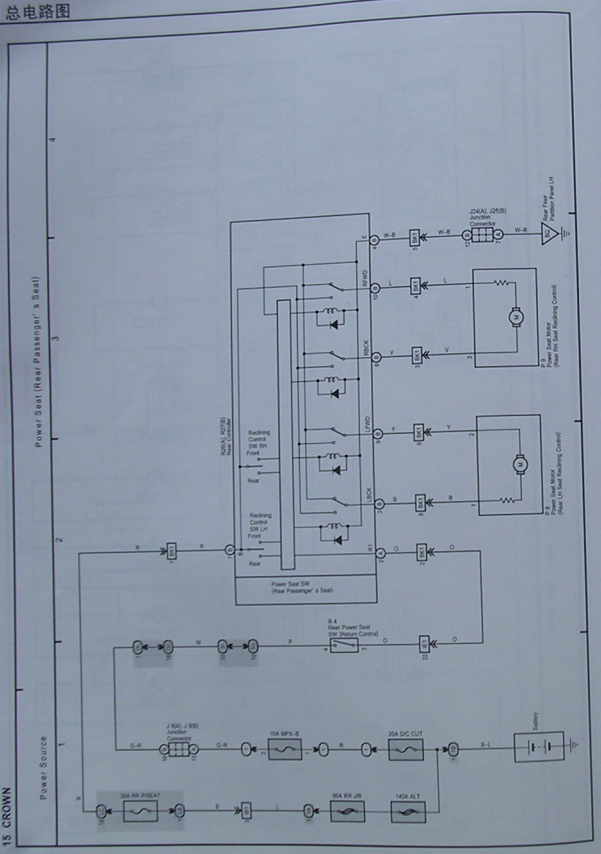


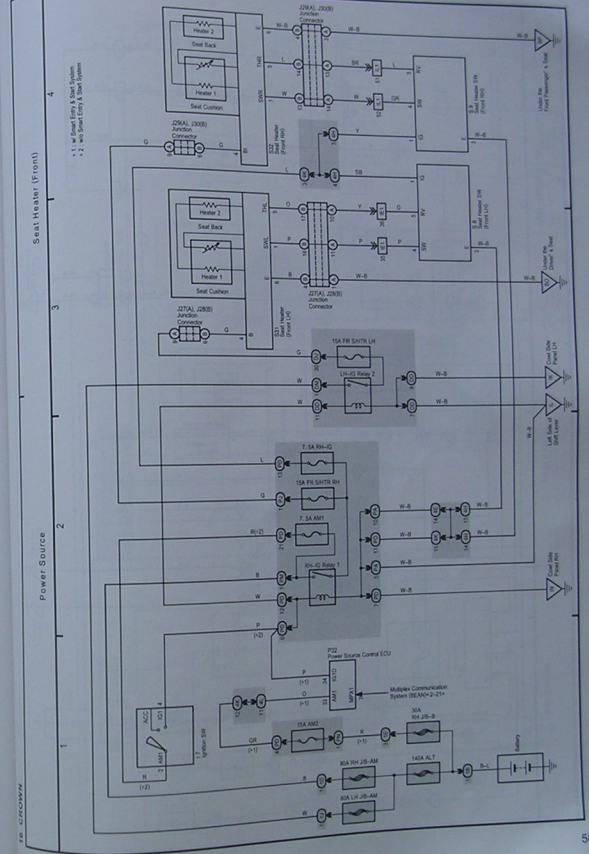


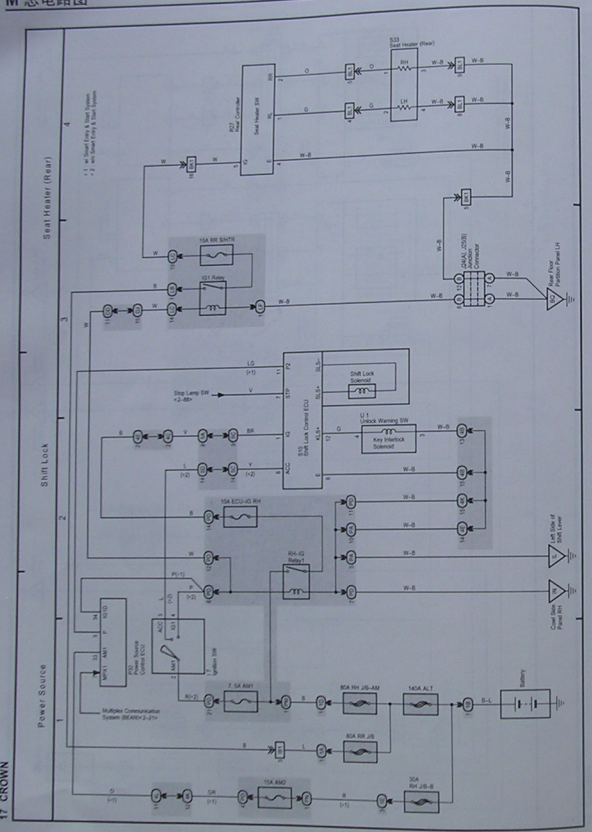

Power Source
EPS
1
2
3
4
ACC
IG1
IG2
ST2
AM1
AM2
Ignition SW
IG2D
AM1
AM2
IG1D
MPX1
PS2
Power Source Control ECU
Multiplex Communication System (BEAN)-2-21
P 1(A), P 2(B)
Power Steering ECU
EPS Motor
EPS Relay
EPS GAUGE
EFI Relay
ECU-IG Relay
ST Relay
Battery
Rear Side of Front Left Fender Apron
Cowl Side Panel RH
Left Side of Shift Lever
* 1 : w/ Smart Entry & Start System
* 2 : w/o Smart Entry & Start System

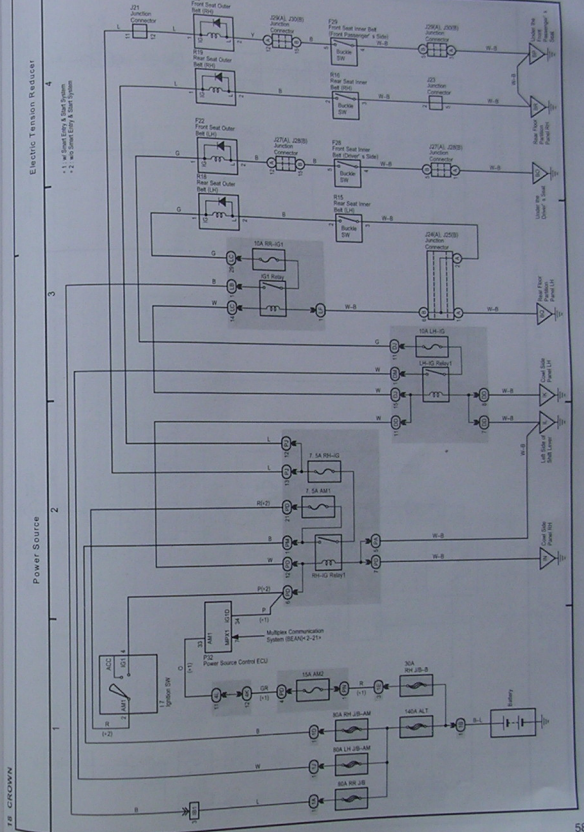

EPS
5
6
7
8
P 5
Power Steering Torque Sensor
INCS
INSN
TRQV
OUCS
OUSN
TQG2
TQG1
P 1(A), P 2(B)
Power Steering ECU
Multiplex Communication System (BEAN)-1-8
DLC3
CAN-L
CAN+
Combination Meter System
Multiplex Communication System (BEAN)-1-10
C13
Combination Meter
P 3(A), P 4(B)
Power Steering Motor
Ground
Gear Bracket RH
Rear the Battery
Rear Side of the Front Left Fender Apron
Cowl Side Panel RH
Left Side of Shift Lever

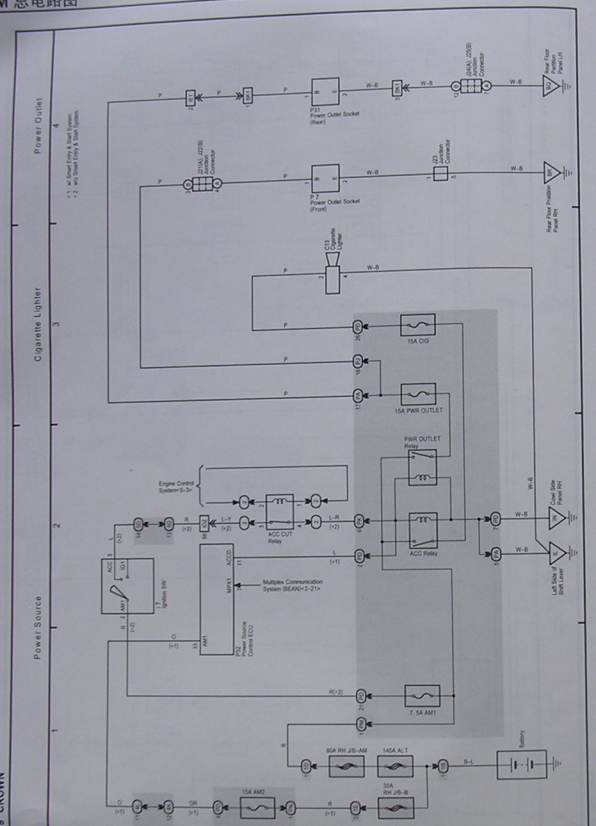

Sliding Roof
Power Source
Multiplex Communication System (BEAN=2-57=)
Sliding Roof Control ECU
Sliding Roof Motor
Sliding Roof SW
CLS
OPN
DOWN
UP
Courtesy Light
Courtesy Light SW
Dome Light
Rear Courtesy Light
Rear Courtesy Light SW
Rear Dome Light
Rear Courtesy Light Control ECU
Rear Sliding Roof SW
Rear Sliding Roof Motor
Rear Sliding Roof Control ECU

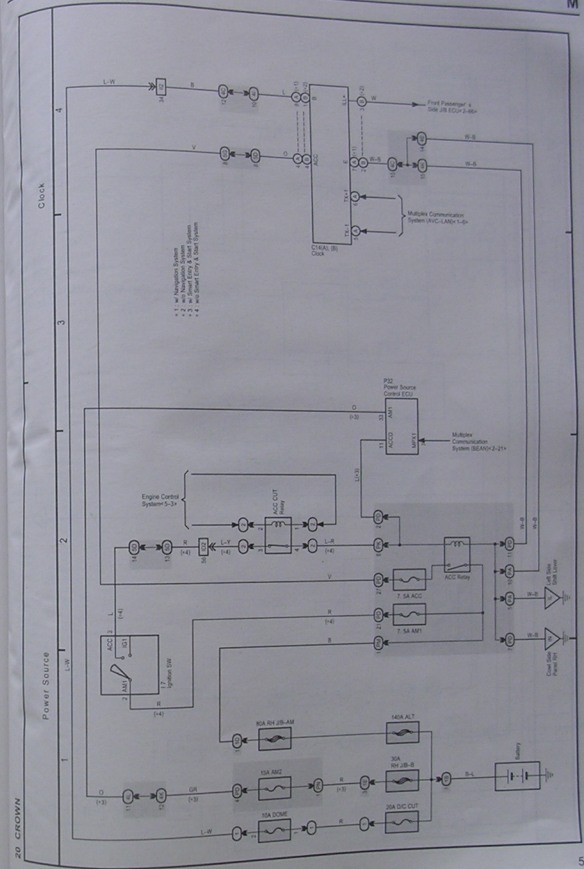

Power Seat (Rear Passenger's Seat)
Power Source
15 CROWN
Rear Floor Junction Panel LH
Reclining Control SW RH Front
Reclining Control SW LH Front
Rear
Power Seat SW (Rear Passenger's Seat)
R4 Rear Power Seat SW (Return Control)
15A MPX-B
25A D/C CUT
30A RR P/SEAT
80A RR J/B
140A ALT
Battery
P.8 Rear Seat Motor (Rear RH Seat Reclining Control)
P.9 Rear Seat Motor (Rear LH Seat Reclining Control)

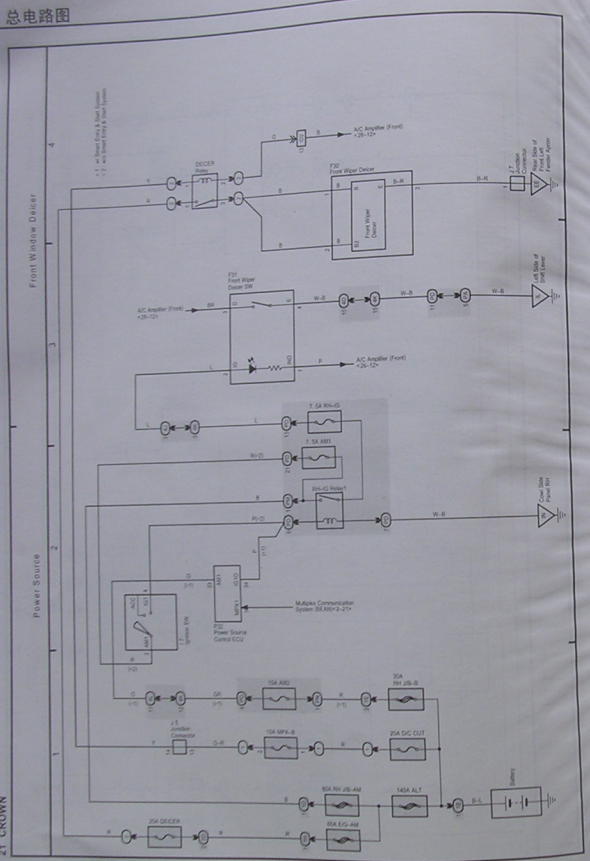

Seat Heater (Front)
Power Source
15 CROWN
*1: w/ Smart Entry & Start System
*2: w/o Smart Entry & Start System
Seat Back
Heater 2
Heater 1
Seat Cushion
Seat Heater (Front RH)
Seat Heater (Front LH)
15A FR S/HTR LH
15A FR S/HTR RH
7.5A RH-IG
7.5A AM1
RH-IG Relay 1
LH-IG Relay 2
P132 Power Source Control ECU
Multiplex Communication System (BEAN+2~21+
15A AM2
30A RH J/B-B
80A RH J/B-AM
80A LH J/B-AM
140A ALT
Battery
Ignition SW
Under the Front Passenger's Seat
Under the Driver's Seat
Cowl Side Panel LH
Left Side of Shift Lever
Cowl Side Panel RH

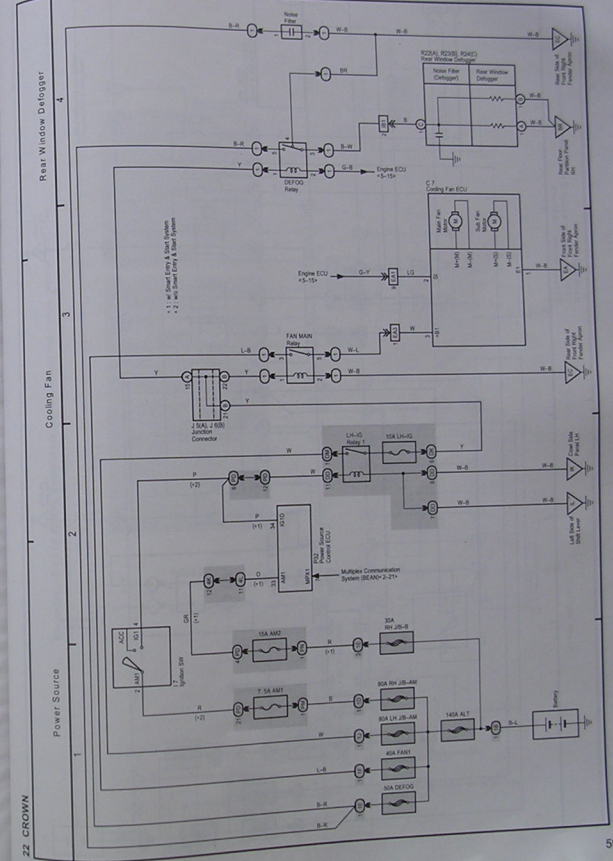

17 CROWN
Power Source
Shift Lock
Seat Heater (Rear)
1
2
3
4
S39
Seat Heater (Rear)
RH
LH
RSF Controller
Seat Heater SW
15A RR S/HTR
IG1 Relay
Shift Lock Solenoid
Key Interlock Solenoid
Stop Lamp SW
Shift Lock Control ECU
Shift Lock Unit
Park/Neutral Position SW
Multiplex Communication System (BEAN+2+21+)
10A ECU-IG RH
RH-IG Relay1
7.5A AM1
85A RH J/B-AM
145A ALT
80A RR J/B
15A AM2
30A RH J/B-B
Battery
Ignition SW
Cowl Side Panel RH
Cowl Side Panel LH
Rear Floor Pan Panel LH
Rear Floor Pan Panel RH
Front Floor Panel LH
Front Floor Panel RH
Left Side Sill Lower
Cowl Side Panel RH
J24(A), J25(B) Junction Connector
J27(A), J28(B) Junction Connector
J29(A), J30(B) Junction Connector
J31 Junction Connector
J32 Junction Connector
J33 Junction Connector
F22 Front Seat Outer Belt (LH)
F23 Front Seat Outer Belt (RH)
F25 Front Seat Inner Belt (Front Passenger's Side)
F26 Front Seat Inner Belt (Driver's Side)
R15 Rear Seat Inner Belt (LH)
R16 Rear Seat Inner Belt (RH)
R17 Rear Seat Outer Belt (LH)
R18 Rear Seat Outer Belt (RH)
Buckle SW
Left Side Sill Lower
Cowl Side Panel LH
Rear Floor Pan Panel LH
Rear Floor Pan Panel RH
Front Floor Panel LH
Front Floor Panel RH
Left Side Sill Lower
Cowl Side Panel RH
: 1 ■ Start Entry & Start System
: 2 ■ Anti-Theft & Alarm System


15 CROWN
Power Source
Electric Tension Reducer
1
2
3
4
J21 Junction Connector
F23 Front Seat Outer Belt (RH)
F25 Front Seat Inner Belt (Front Passenger's Side)
F26 Front Seat Inner Belt (Driver's Side)
R16 Rear Seat Inner Belt (RH)
R18 Rear Seat Outer Belt (RH)
F22 Front Seat Outer Belt (LH)
R15 Rear Seat Inner Belt (LH)
R17 Rear Seat Outer Belt (LH)
J24(A), J25(B) Junction Connector
J27(A), J28(B) Junction Connector
J29(A), J30(B) Junction Connector
J31 Junction Connector
J32 Junction Connector
J33 Junction Connector
Buckle SW
10A RR-IG1
IG1 Relay
10A LH-IG
LH-IG Relay1
7.5A 9/H-IG
7.5A AM1
RH-IG Relay1
Multiplex Communication System (BEAN+2+21+)
P32 Power Source Control ECU
Ignition SW
15A AM2
30A RH J/B-B
80A RH J/B-AM
145A ALT
80A LH J/B-AM
80A RR J/B
Battery
Cowl Side Panel LH
Left Side Sill Lower
Cowl Side Panel RH
Rear Floor Pan Panel LH
Rear Floor Pan Panel RH
Front Floor Panel LH
Front Floor Panel RH
Left Side Sill Lower
Cowl Side Panel RH
: 1 ■ Start Entry & Start System
: 2 ■ Anti-Theft & Alarm System


Power Source
Cigarette Lighter
Power Outlet
1
2
3
4
19 CROWN
Engine Control System<5-3>
ACC CUT Relay
ACC Relay
PWR OUTLET Relay
15A CIG
15A PWR OUTLET
7.5A ACC
7.5A AM1
Ignition SW
Multiplex Communication System (BEAN)<2-21>
P32 Power Source Control ECU
P31 Power Outlet Socket (Rear)
P-7 Power Outlet Socket (Front)
CLOCK Cigarette Lighter
J2(A/L J2(B) Junction Connector
J3 Junction Connector
Rear Floor Position Power Unit
Front Floor Position Power Unit
Cowl Side Panel RH
Left Side of Shift Lever
80A RH J/B-AM
140A ALT
30A RH J/B-B
15A AM2
Battery
*1 : w/ Smart Entry & Start System
*2 : w/o Smart Entry & Start System

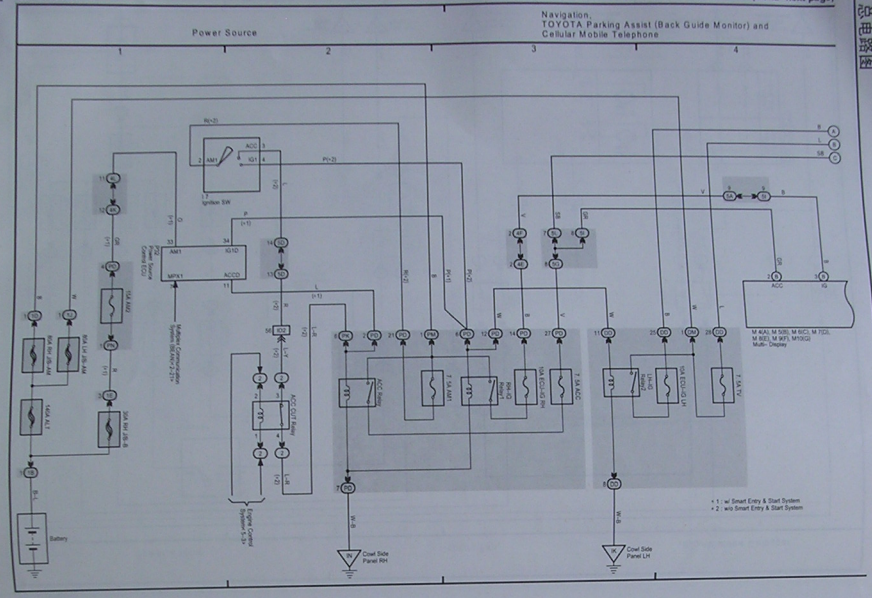

Clock
Power Source
1
2
3
4
20 CROWN
Front Passenger's Side J/B ECU<3-46>
Multiplex Communication System (AVC-LAN)<1-2>
CHAN (B) Unit
*1 : w/ Navigation System
*2 : w/o Navigation System
*3 : w/ Smart Entry & Start System
*4 : w/o Smart Entry & Start System
P32 Power Source Control ECU
Multiplex Communication System (BEAN)<2-21>
Engine Control System<5-3>
ACC CUT Relay
ACC Relay
7.5A ACC
7.5A AM1
Ignition SW
80A RH J/B-AM
140A ALT
15A AM2
15A DOME
30A RH J/B-B
20A D/C CUT
Battery
Cowl Side Panel RH
Left Side of Shift Lever


Front Window Deicer
Power Source
DEICER Relay
F30 Front Wiper Deicer
F31 Front Wiper Power SW
A/C Amplifier (Front) <26-12>
J7 Junction Connector
Front Wiper Motor
Left Side of Dash Panel
T 5A RH-IG
T 5A AM1
RH-IG Relay
Cowl Side Panel RH
P32 Power Source Control ECU
Multiplex Communication System (BEAN)<2-21>
Ignition SW
15A AM2
30A RH J/B-B
J1 Junction Connector
15A MPX-B
25A D/C CUT
80A RH J/B-AM
145A ALT
80A EJC-AM
25A DEICER
Battery


Rear Window Defogger
Cooling Fan
Power Source
Noise Filter
R22(A), R23(B), R24(C) Rear Window Defogger
Noise Filter (Defogger)
Rear Window Defogger
DEFOG Relay
Engine ECU <5-15>
C7 Cooling Fan ECU
Main Fan Motor
Sub Fan Motor
FAN MAIN Relay
J 5(A), J 6(B) Junction Connector
LH-IG Relay 1
15A LH-IG
P32 Power Source Control ECU
Multiplex Communication System (BEAN)<2-21>
15A AM2
30A RH J/B-B
7.5A AM1
80A RH J/B-AM
80A LH J/B-AM
145A ALT
40A FAN1
50A DEFOG
Battery
Ignition SW

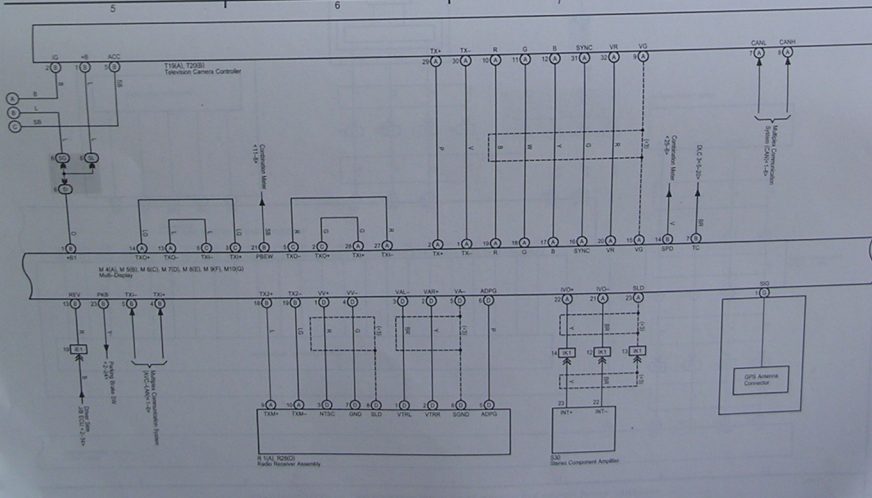
Power Source

Navigation, TOYOTA Parking Assist (Back Guide Monitor) and Cellular Mobile Telephone



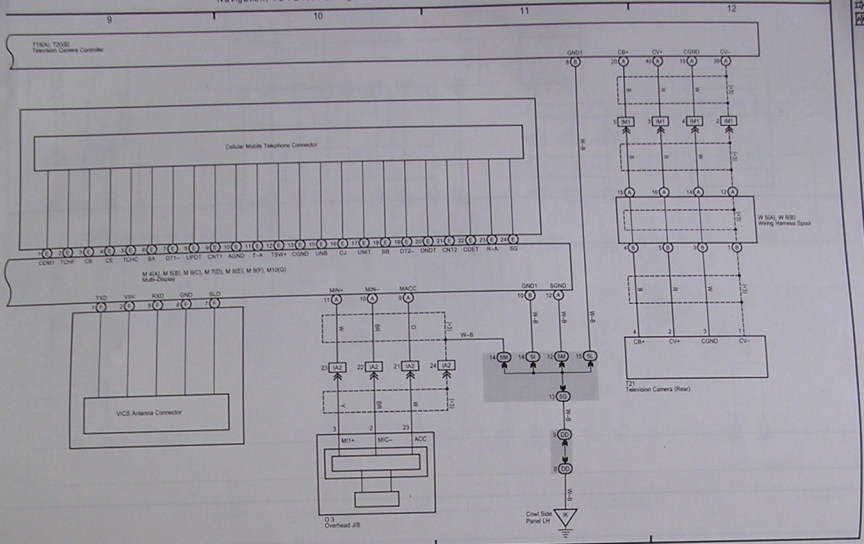
Navigation, TOYOTA Parking Assist (Back Guide Monitor) and Cellular Mobile Telephone

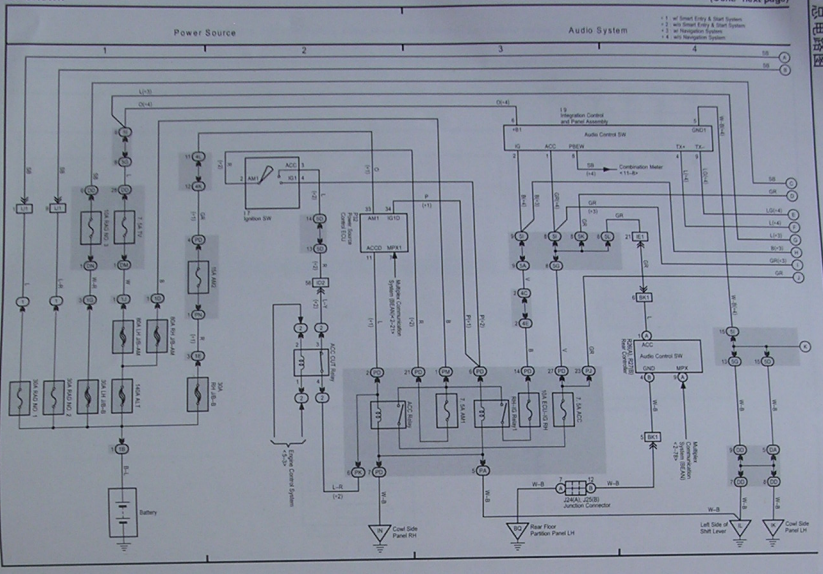
* 3 : Shielded



Navigation, TOYOTA Parking Assist (Back Guide Monitor) and Cellular Mobile Telephone

*3 : Shielded




Power Source
Audio System
1
2
3
4
* 1 : w/ Smart Entry & Start System
* 2 : w/o Smart Entry & Start System
* 3 : w/ Navigation System
* 4 : w/o Navigation System
I9
Integration Control and Panel Assembly
Audio Control SW
Combination Meter
*1:L-B+
*2:B-W-B
*3:R-W-B
*4:W-B-W
*5:W-B
*6:W-B-W
*7:W-B-W
*8:W-B-W
*9:W-B-W
*10:W-B-W
*11:W-B-W
*12:W-B-W
*13:W-B-W
*14:W-B-W
*15:W-B-W
*16:W-B-W
*17:W-B-W
*18:W-B-W
*19:W-B-W
*20:W-B-W
*21:W-B-W
*22:W-B-W
*23:W-B-W
*24:W-B-W
*25:W-B-W
*26:W-B-W
*27:W-B-W
*28:W-B-W
*29:W-B-W
*30:W-B-W
*31:W-B-W
*32:W-B-W
*33:W-B-W
*34:W-B-W
*35:W-B-W
*36:W-B-W
*37:W-B-W
*38:W-B-W
*39:W-B-W
*40:W-B-W
*41:W-B-W
*42:W-B-W
*43:W-B-W
*44:W-B-W
*45:W-B-W

9
10
11
12
DVAD, DVDD
Multimedia Amplifier
Navigation
TOYOTA Parking Assist
Back Guide Monitor) and
Cellular Mobile Telephone System
23-7)
T18
Tweeter
(Front RH)
T17
Tweeter
(Front LH)
D3
Speaker
(Front Door RH)
D4
Speaker
(Front Door LH)
D5
Speaker
(Front Door LH)
D6
Speaker
(Rear Door RH)
D7
Speaker
(Rear Door LH)
D8
Speaker (Woofer)
S12
Spiral Cable
Combination Meter
(Clock)
Right Side of
Luggage Room
W-B
W-B

(Cont. next page)
Combination Meter
Power Source
25 CROWN
Engine Control System <5-20>
Check Engine
Smart Key
Front Fog
Rear Fog
High Beam
ECB
Seat
Driver Seat Belt
Tire Pressure
Battery Charge
Battery Level
Fuel
Tachometer
Speedometer
Engine Illumination
Meter Illumination
C15 Combination Meter
* 1: w/ Smart Entry & Start System
* 2: w/o Smart Entry & Start System
Turn LH
Turn RH
Turn Signal and Hazard Warning Light System <7-5>, <7-6>
7.5A GAUGE
J (5A), J (63) Junction Connector
IG2 Relay
Rear Side of Front Floor Wire
Ignition SW
IG1 Relay
PIM Power Source Control ECU
Multiplex Communication System (BEAN) <2-55>
25A IG2 MAIN
15A RM2
30A RH J/B-B
J (5A), J (63) Junction Connector
15A MPX-B
10A DOME
25A D/G CUT
15A FUEL (SPN)
80A LH J/B-AM
140A ALT
Battery

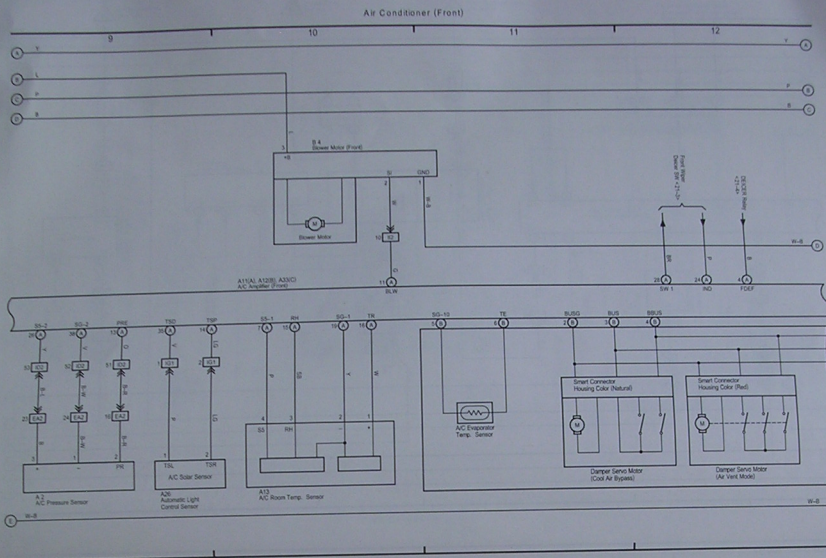
Fuel Lid Opener
Combination Meter
25 CROWN (Cont' d)
F16 Fuel Lid Opener SW
F25 Fuel Lid Opener Motor
(24A), (26B) Junction Connector
Rear Floor Harness No.2
Multiplex Communication System (BEAN) <2-55>
Temp
Multi-Information Display
C15 Combination Meter
Fuel
Tachometer
Speedometer
Seat Belt Warning System <11-4>
Cowl Side of Body Wire
Cowl Side Panel RH
TRC, VSC and Tire Pressure Warning System <9-11>
Signal Cable <24-9>
RESET
Engine ECU <5-20>
Stop Light Switch
L1 Control Light Switch
F24 Fuel Sender Gage
F27 Fuel Suction Pump and Gage Assembly
Stereo Component Amplifier <28-8>
Multi-Display <3-3>
Power Source Control ECU <2-19>
ABS
Brake
Oil Level
Oil Pressure
VSC
CRUISE
ECT SNOR
ECT PWR
Fuel
B-3 Brake Fluid Level Warning SW
J7 Junction Connector
Rear Side of Front Left Fender Apron
* 1: w/ Smart Entry & Start System
* 2: w/ Navigation System
* 3: w/o Navigation System

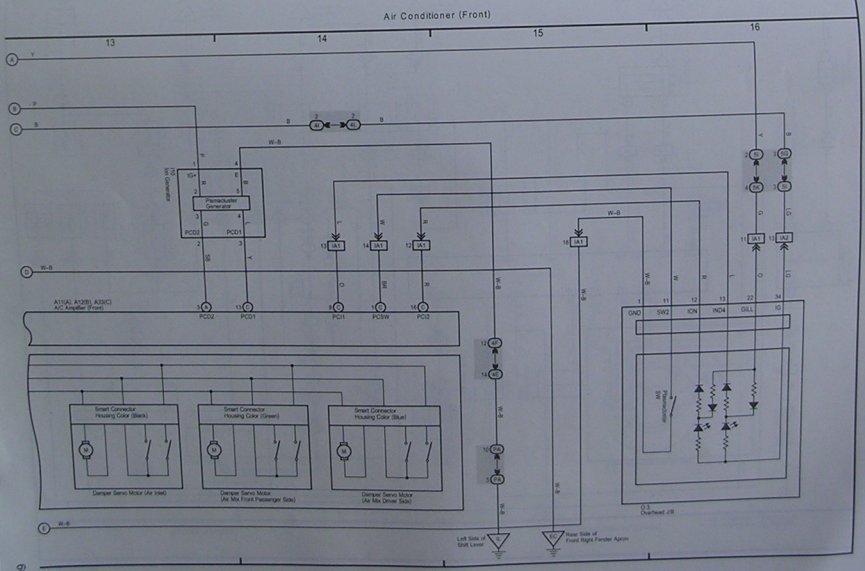
(Cont. next page)

Power Source

(Cont. next page)

Air Conditioner (Front)


Air Conditioner (Front)
9
10
11
12
B 4
Blower Motor (Front)
Blower Motor
A11(A), A12(B), A33(C)
A/C Amplifier (Front)
SW 1
IND
FDEF
A2
A/C Pressure Sensor
A26
Automatic Light
Control Sensor
A/C Solar Sensor
A13
A/C Room Temp. Sensor
A/C Evaporator
Temp. Sensor
Smart Connector
Housing Color (Natural)
Smart Connector
Housing Color (Red)
Damper Servo Motor
(Cool Air Bypass)
Damper Servo Motor
(Air Vent Mode)
W-B


Air Conditioner (Front)
13
14
15
16
Ignitor
Pismacluster
Generator
A11(A), A12(B), A33(C)
A/C Amplifier (Front)
Smart Connector
Housing Color (Black)
Smart Connector
Housing Color (Green)
Smart Connector
Housing Color (Blue)
Damper Servo Motor (Air Inlet)
Damper Servo Motor
(Air Mix Front Passenger Side)
Damper Servo Motor
(Air Mix Driver Side)
Illumination
Left Side of
Shift Lever
Rear Side of
Front Right Fender Apron
W-B

Air Conditioner (Rear)
Power Source
R26(A), R27(B) Rear Controller
ACC Cntrol SW
Multiplex Communication System (BEAN) <2-78>
J24(A), J25(B) Junction Connector
Power Door Partition Panel LH
Blower Servo Motor (Air Mix Rear)
B 7 Blower Resistor (Rear)
B 6 Blower Motor (Rear)
A27 A/C Amplifier (Rear)
Multiplex Communication System (BEAN) <2-58>
S21 Smoke Sensor
M 1 Magnetic Valve (Rear)
10A LH-IG
LH-IG Relay 1
Cowl Side Panel LH
Engine Control System <5-3>
ACC CUT Relay
ACC Relay
Left Side of Shift Lever
7.5A ACC
7.5A AM1
Cowl Side Panel RH
Speed Sns
15A AM2
30A RH J/B-B
Multiplex Communication System (BEAN) <2-21>
F12 Power Source Control ECU
80A RH J/B-AM
80A RR J/B
140A ALT
80A LH J/B-AM
Battery