CC

DIAGNOSTIC TROUBLE CODE CHART

HINT:

If a trouble code is displayed during the DTC check, check the trouble areas listed for that code in the table below and proceed to the appropriate page.

Cruise control system

DTC No.	Detection Item	Trouble Area	See page
P0500/21	Vehicle Speed Sensor "A"	 Combination meter Vehicle speed sensor Vehicle speed sensor circuit ECM 	CC-20
P0503/23	Vehicle Speed Sensor Circuit	 Combination meter Vehicle speed sensor Vehicle speed sensor circuit ECM 	CC-20
P0571/52	Stop Light Switch Circuit	- Stop light switch - BRK relay circuit* - Wire harness - ECM	CC-21
P0607/54	Input Signal Circuit Abnormal	- ECM	CC-25

Cruise control system (w/ VSC)

DTC No.	Detection Item	Trouble Area	See page
P1578/69	Brake System Malfunction	- VSC system	CC-26
P1630/64	Communication Error from Skid Control ECU to ECM	- Communication circuit - Skid control - ECM	CC-27
P1631/65	Communication Error from ECM to Skid Control ECU	- Communication circuit - ECM - Skid control	CC-28
U0100/78	Communication Stop from ECM to Distance Control ECU, VSC	- Communication circuit - ECM - Skid control	CC-28
U0122/82	Communication Stop from VSC to ECM	- Communication circuit - Skid control - ECM	CC-27

DTC	P0500/21	Vehicle Speed Sensor "A"
DTC	P0503/23	Vehicle Speed Sensor Circuit

DESCRIPTION

Refer to the SFI system (see page ES-224).

DTC No.	DTC Detection Condition	Trouble Area
P0500/21	No vehicle speed sensor signal to ECM under	Combination meter
P0503/23	conditions (a) and (b) (2 trip detection logic):	Vehicle speed sensor
	(a) Cruise control system is operating	 Vehicle speed sensor circuit
	(b) Vehicle is being driven	• ECM

WIRING DIAGRAM

Refer to the SFI system (see page ES-224).

INSPECTION PROCEDURE

Refer to the SFI system (see page ES-224).

DTC	P0571/

/52 Stop Light Switch Circuit

DESCRIPTION

While driving with the cruise control, if the ECM detects that the brake pedal is depressed, the cruise control operation will be canceled. The stop light switch sends brake pedal status signals to the ECM. When the brake pedal is not depressed, terminal ST1- is equal to the positive (+) battery voltage and terminal STP is below 1 V. When the brake pedal is depressed, the ECM cancels cruise control operation. The ECM outputs this DTC when the voltage of terminals ST1- and STP are both below 1 V for 0.5 seconds or more at the same time. The fail-safe function operates to enable normal driving even if there is a malfunction in the stop light signal circuit.

DTC No.	DTC Detection Condition	Trouble Area
P0571/52	 ECM detects malfunction of stop light switch circuit under both of following conditions: Voltage of terminal STP is less than 1 V for 0.5 seconds or more Voltage of terminal ST1- is less than 1 V for 0.5 seconds or more 	 Stop light switch BRK relay circuit* Wire harness ECM

HINT:

*: w/ Vehicle stability control system

WIRING DIAGRAM



Normal Condition

INSPECTION PROCEDURE

1 READ VALUE OF INTELLIGENT TESTER (STOP LIGHT SWITCH)

Measurement Item / Display

(a) Check the DATA LIST for proper functioning of the stop light switch.

Diagnostic Note

ECM Item

	(Range)		
ST LIGHT SW M	Stop light switch signal (Main CPU) / ON or OFF	ON: Brake pedal is depressed OFF: Brake pedal is released	-
	OK D o	: hisplay changes accordin peration described in abo	g to brake pedal ove table.
	NG	REPLACE ECM	
ОК			
2 INSPECT FUSE	(STOP, IGN, IG2)		
OK	(a) Re par (b) Re blo (c) Me Sta B	move the STOP and IGN function block. move the IG2 fuse from the ck. asure the resistance of the indard resistance : selow 1 Ω REPLACE FUSE	uses from the instrument e engine room No. 1 relay fuses.
3 INSPECT IG2 RE	ELAY		
(a)		move the IG2 relay from the ck. asure the resistance of the indard resistance	e instrument panel junction relay.
2 þ —þ1	Tester Co	onnection Spe	ecified Condition
5	3 - 5	10 4	Ω or higher
50		Belo (wh term	bw 1 Ω en battery voltage is applied to ninals 1 and 2)
1			
	I045791E02	REPLACE IG2 RELA	Y

CC-26



NG

REPAIR OR REPLACE HARNESS AND CONNECTOR

ОК

REPLACE ECM

