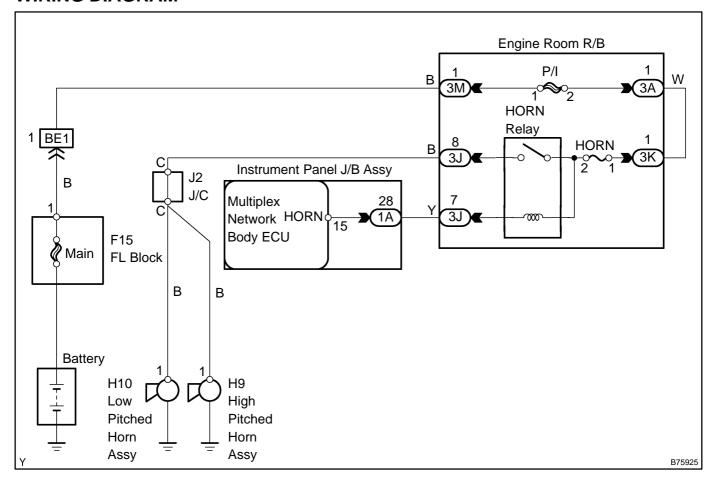
HORN CIRCUIT

CIRCUIT DESCRIPTION

When the theft deterrent system is switched from the armed state to the alarm sounding state, the multiplex network body ECU turns on the HORN relay, causing the horn to sound at intervals of 0.4 seconds.

WIRING DIAGRAM



2004 Prius - Preliminary Release (RM1075U)

INSPECTION PROCEDURE

1 PERFORM ACTIVE TEST USING HAND-HELD TESTER

- (a) Connect the hand-held tester (with CAN VIM) to the DLC3.
- (b) Turn the power switch ON (IG) and press the hand-held tester main switch ON.
- (c) Select the item below in the ACTIVE TEST and then check that the horn operates.

Multiplex network body ECU:

| Item | em Tester Detail | |
|----------------|------------------|---|
| VEHICLE LIOPNI | Vehicle horn | |
| VEHICLE HORN | ON/OFF | _ |

OK: Vehicle horn sounds normally.

NG Go to step 2

OK

REPLACE MULTIPLEX NETWORK BODY ECU

2 INSPECT FUSE (HORN)

- (a) Remove the HORN fuse from the engine room R/B.
- (b) Measure the resistance.

Standard: Below 1 Ω

NG REPLACE FUSE

OK

3 CHECK HORN ASSY

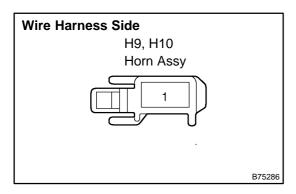
- (a) Press the horn switch and check if the horn sounds.
 - (1) If the horn sounds, proceed to A.
 - (2) If the horn does not sound, proceed to B.

B Go to step 4

Α__

REPLACE INSTRUMENT PANEL JUNCTION BLOCK ASSY

4 CHECK WIRE HARNESS



- (a) Disconnect the H9 and H10 connectors.
- (b) Measure the voltage of the wire harness side connectors. **Standard:**

| Tester Connection | Condition | Specified Condition |
|--------------------|--------------------|---------------------|
| H9-1 - Body ground | Horn switch pushed | 10 to 14 V |
| H9-1 - Body ground | Horn switch pushed | 10 to 14 V |

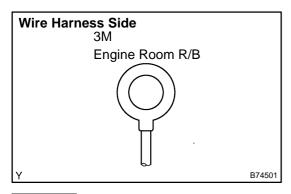
NG

Go to step 5

OK

REPLACE HORN ASSY

5 CHECK WIRE HARNESS (ENGINE ROOM R/B – BATTERY)



- (a) Disconnect the 3M R/B connector.
- (b) Measure the voltage of the wire harness side connector. **Standard:**

| Tester Connection | Condition | Specified Condition |
|--------------------|-----------|---------------------|
| 3M-1 - Body ground | Constant | 10 to 14 V |

NG

REPAIR OR REPLACE HARNESS AND CONNECTOR

ОК

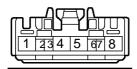
6 CHECK WIRE HARNESS (ENGINE ROOM R/B – HORN ASSY AND BODY GROUND)

Wire Harness Side

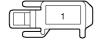
3A Engine Room R/B



3K, 3J Engine Room R/B



H9, H10 Horn Assy



B81027

Standard:

| (a | ı) | Disconnect | the 3A, | 3K | and 3J | R/B | connectors. |
|----|----|------------|---------|----|--------|-----|-------------|
|----|----|------------|---------|----|--------|-----|-------------|

(b) Disconnect the H9 and H10 horn connectors.

(c) Measure the resistance of the wire harness side connectors.

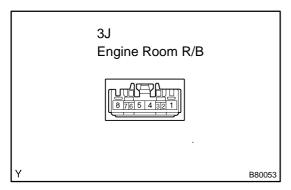
| Tester Connection | Specified Condition |
|-----------------------------|-------------------------|
| 3A-1 - 3K-1 | Below 1 Ω |
| 3J-8 - H9-1 | Below 1 Ω |
| 3J-8 - H10-1 | Below 1 Ω |
| 3A-1 or 3K-1 - Body ground | 10 kΩ or higher |
| 3J-1 or H9-1 - Body ground | 10 k Ω or higher |
| 3J-1 or H10-1 - Body ground | 10 k Ω or higher |

NG REPAIR OR REPLACE HARNESS AND CONNECTOR

ОК

2004 Prius – Preliminary Release (RM1075U)

7 INSPECT ENGINE ROOM R/B



- (a) Disconnect the 3J R/B connector.
- (b) Measure the voltage of the terminal side connector. **Standard:**

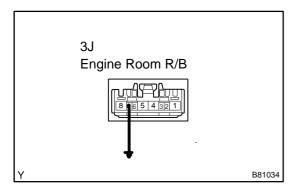
| Tester Connection | Condition | Specified Condition |
|--------------------|-----------|---------------------|
| 3J-7 - Body ground | Constant | 10 to 14 V |

NG

REPLACE ENGINE ROOM R/B

OK

8 INSPECT ENGINE ROOM R/B (OPERATION CHECK)



- (a) Reconnect the 3J J/B connector.
- (b) Check that the horn sounds.

Standard:

| Connection | Specified Condition |
|---|---------------------|
| When connect R/B terminal 3J–7 and Body ground | Horn sounds |
| When does not connect R/B terminal 3J–7 and Body ground | Horn not sounds |

NG `

REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

9 CHECK WIRE HARNESS (INSTRUMENT PANEL J/B – ENGINE ROOM R/B AND BODY GROUND)

Wire Harness Side 1A Instrument Panel J/B 3J Engine Room R/B

- (a) Disconnect the 1A J/B connector.
- (b) Disconnect the 3J R/B connector.
- (c) Measure the resistance of the wire harness side connectors.

Standard:

| Tester Connection | Specified Condition |
|------------------------------------|-------------------------|
| 1A-28 (HORN) - 3J-7 | Below 1 Ω |
| 1A-28 (HORN) or 3J-7 - Body ground | 10 k Ω or higher |

REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

REPLACE INSTRUMENT PANEL J/B ASSY

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