

DTC	C1207 / 37	P/R Range Switch Circuit
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DTC No.	DTC Detection Condition	Trouble Area
C1207 / 37	When any of the following 1. through 3. is detected: - At vehicle speed of 15 km/h (9 mph) or less and the conditions that open circuit signal of P signal circuit of park/neutral position switch is ON and the voltage of IG1 terminal is 9.5 to 17 V continue for 5 sec. or more. - At vehicle speed of 15 km/h (9 mph) or more, and when the condition that P signal from park/neutral position switch is ON, and the the shift lever position information from the ECM is other than in P or N range continues for 60 sec. or more. - At vehicle speed of 15 km/h (9 mph) or less and the conditions that open circuit signal of R signal circuit of park/neutral position switch is ON and the voltage of IG1 terminal is 9.5 to 17 V continue for 2 sec. or more.	• P/R range switch • P/R range switch circuit

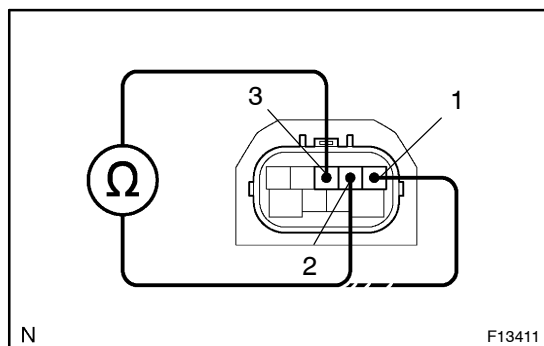
Diagram illustrating the wiring for the ABS & TRC & VSC ECU, Engine and ECT ECU, and various components (J1, J25, J/C, PNP Switch, Junction Connector, Ignition Switch, Driver Side J/B, Engine Room No.1 R/B, ALT, AM1, Gauge, Battery).

Legend:

- *1: LHD
- *2: RHD
- *3: 2JZ-GE
- *4: 3JZ-FE

Wiring Details:

- ABS & TRC & VSC ECU:** Receives signals from the Junction Connector (F, C, D) and the Ignition Switch (W-L).
- Engine and ECT ECU:** Receives signals from the Junction Connector (D, A) and the Ignition Switch (W-L).
- Engine Room No.1 R/B:** Includes the ALT (Alternator) and AM1 (Alternator Monitor 1).
- Driver Side J/B:** Includes the Gauge and AM1.
- Ignition Switch:** Controls the W-L (Wiring Lock) signal.
- PNP Switch:** Controls the RL (Relay Lock) signal.
- Junction Connector:** Connects the various components to the ECUs.
- Battery:** Provides power to the system.

INSPECTION PROCEDURE**1 Check park/neutral position switch (P/R range switch).****PREPARATION:**

- (a) Jack up the vehicle.
- (b) Disconnect the park/neutral position switch connector.

CHECK:

Check continuity between each terminal shown below when the shift lever is moved to each position.

OK:

P range switch	Terminals 3 – 1	Continuity
R range switch	Terminals 3 – 2	Continuity

NG**Replace park/neutral position switch (P/R range switch).****OK****2 Check for open and short circuit in harness and connector between terminals P and R of ABS & TRC & VSC ECU and battery (See page IN-30).****NG****Repair or replace harness or connector.****OK****Check and replace ABS & TRC & VSC ECU or engine and ECT ECU.**