

<b>DTC</b>	<b>P1780</b>	<b>Park/Neutral Position Switch Malfunction</b>
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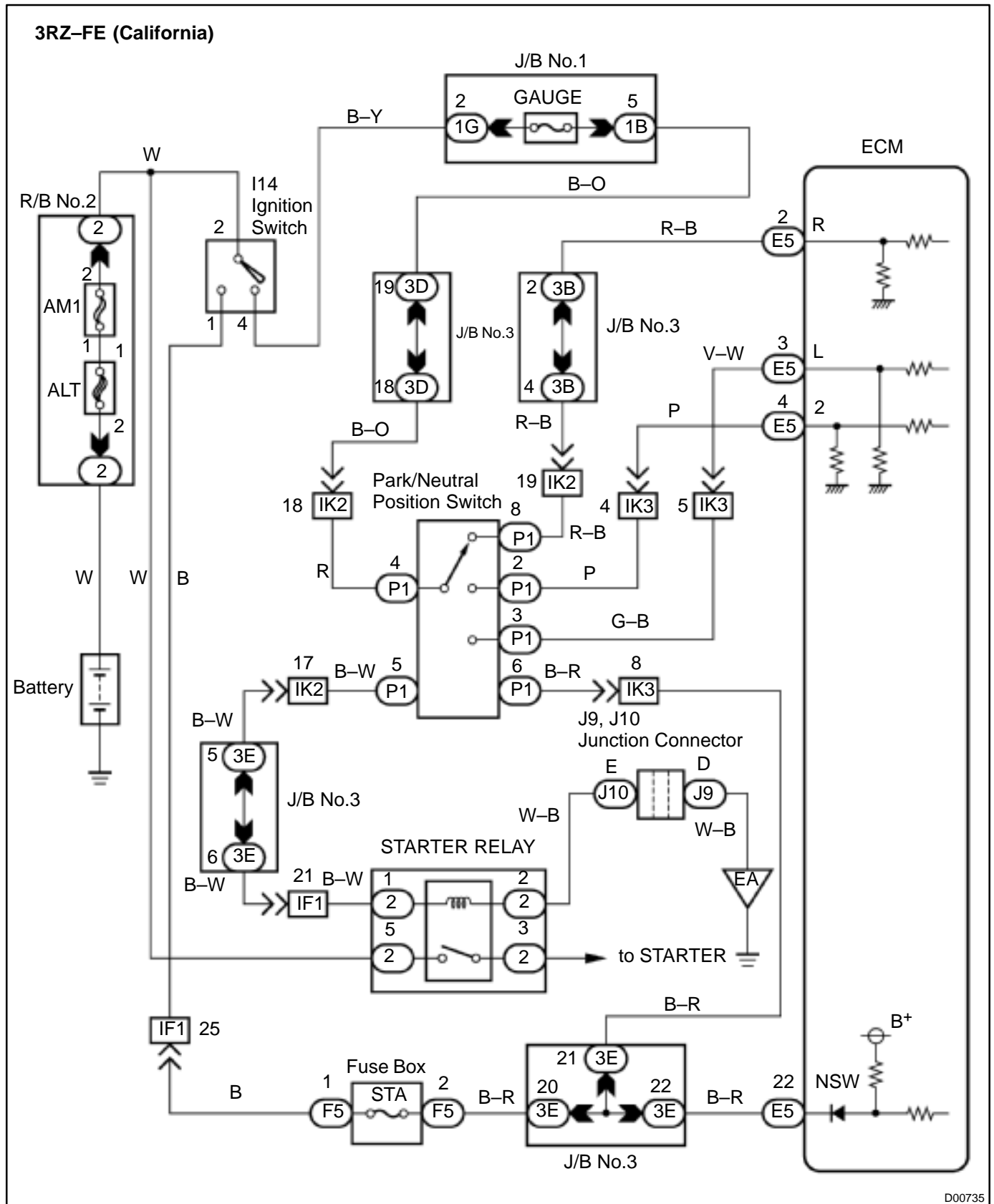
## CIRCUIT DESCRIPTION

The park/neutral position switch detects the shift lever position and sends signals to the ECM.

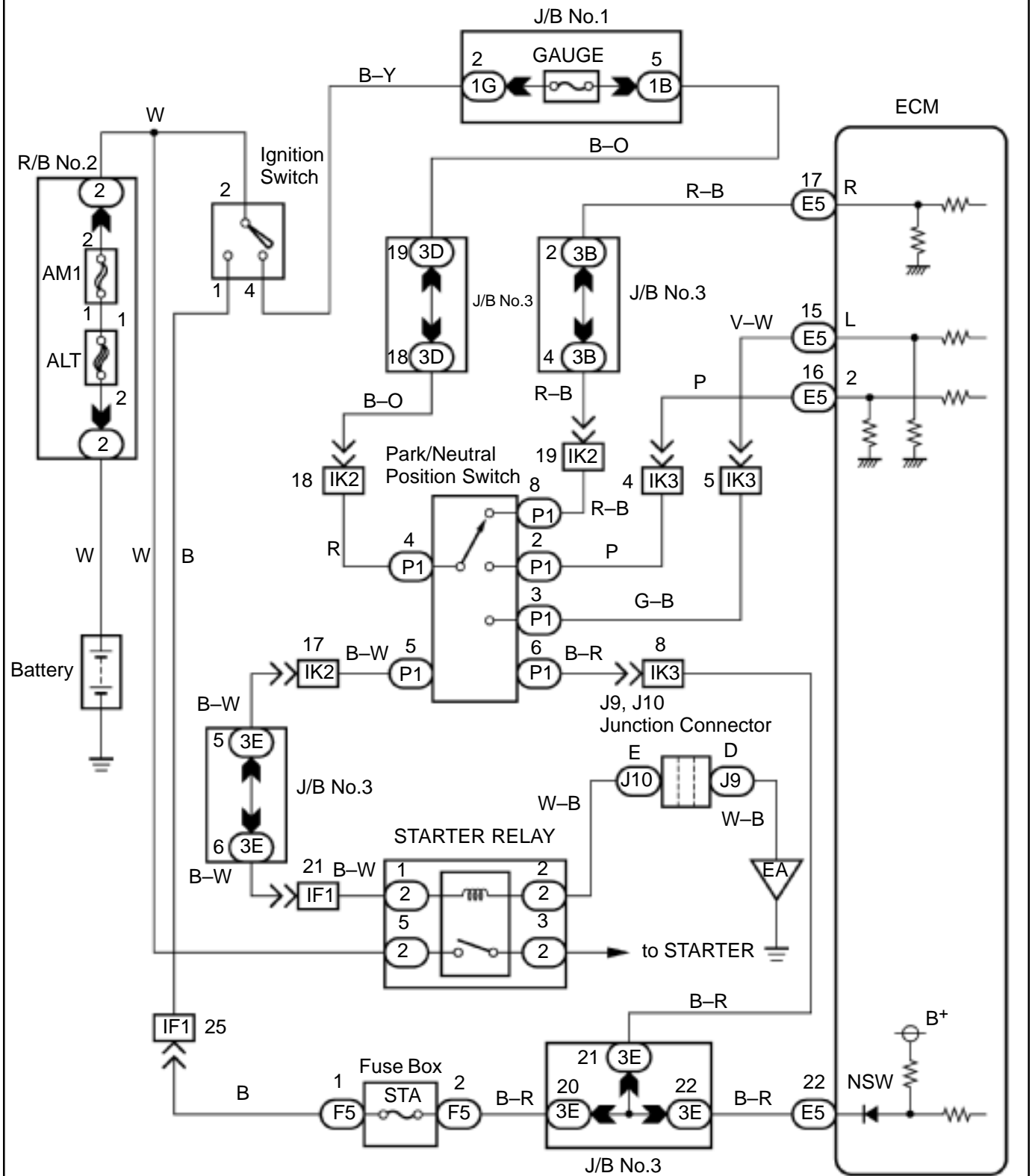
The ECM receives signals (NSW, R, 2 and L) from the park/neutral position switch. When the signal is not sent to the ECM from the park/neutral position switch, the ECM judges that the shift lever is in D position.

DTC No.	DTC Detection Condition	Trouble Area
P1780	2 or more switches are ON simultaneously for R, N, 2 and L positions. (2-trip detection logic)	<ul style="list-style-type: none"> <li>• Short in park/neutral position switch circuit</li> <li>• Park/neutral position switch</li> <li>• ECM</li> </ul>
	When driving under conditions (a) and (b) for 30 seconds or more, the park/neutral position switch is ON (N position). (2 trip detection logic) (a) Vehicle speed: 70 km/h (44 mph) or more (b) Engine speed: 1,500 – 2,500 rpm	

## WIRING DIAGRAM

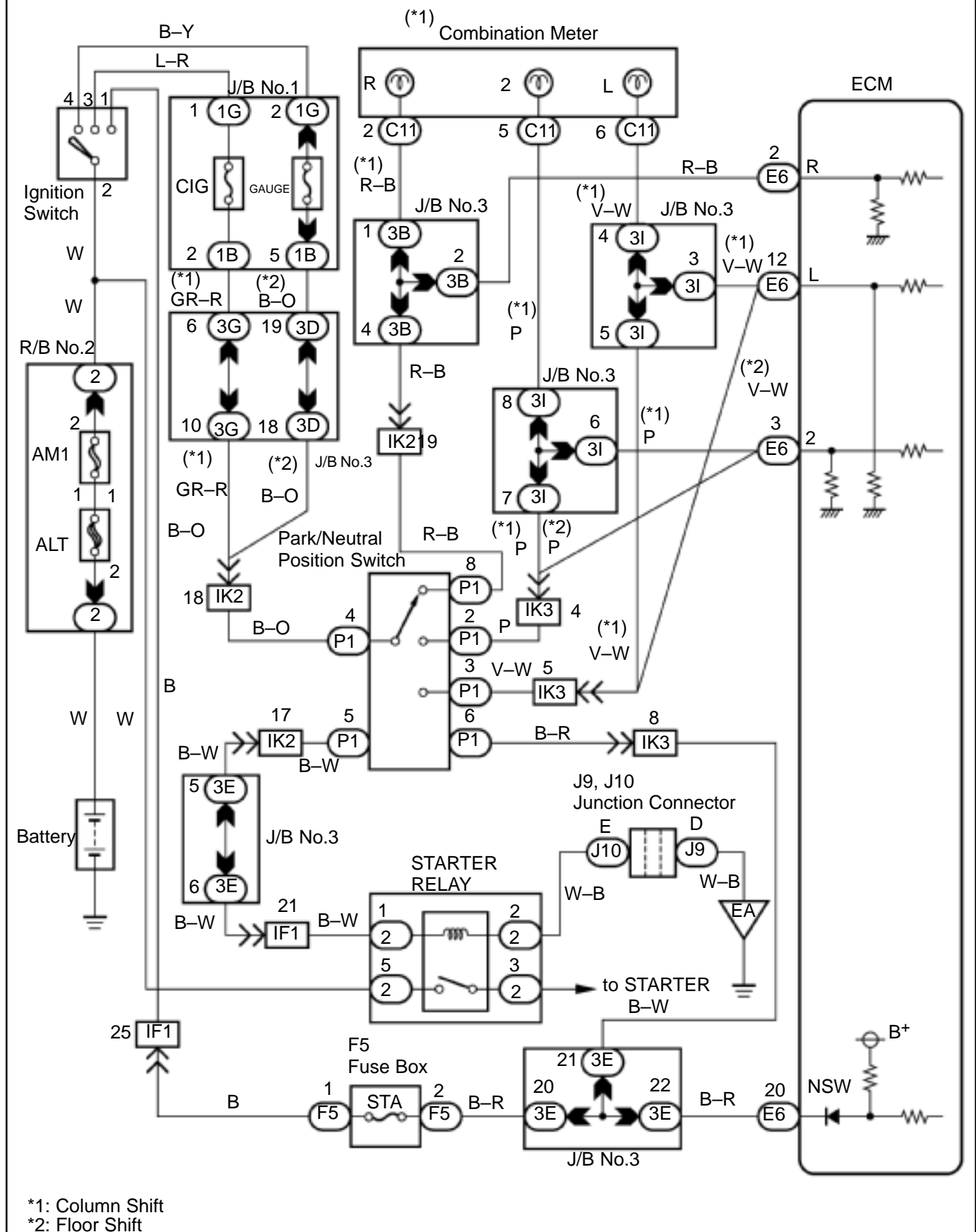


## 3RZ-FE (Except California)



D00735

## 5VZ-FE (California)



The diagram illustrates the electrical system for a 1987 Honda Civic 1.6i. Key components and their connections include:

- Battery:** Connected to the main power line (W).
- Ignition Switch:** Controls the main power line (W) and provides power to the Ignition Coil (IC1) and Ignition Coil (IC2).
- ECM (Engine Control Module):** Receives power from the main power line (W) and controls the Fuel Injectors (FI1, FI2, FI3, FI4, FI5, FI6, FI7, FI8, FI9, FI10, FI11, FI12, FI13, FI14, FI15, FI16, FI17, FI18, FI19, FI20, FI21, FI22, FI23, FI24, FI25, FI26, FI27, FI28, FI29, FI30, FI31, FI32, FI33, FI34, FI35, FI36, FI37, FI38, FI39, FI40, FI41, FI42, FI43, FI44, FI45, FI46, FI47, FI48, FI49, FI50, FI51, FI52, FI53, FI54, FI55, FI56, FI57, FI58, FI59, FI60, FI61, FI62, FI63, FI64, FI65, FI66, FI67, FI68, FI69, FI70, FI71, FI72, FI73, FI74, FI75, FI76, FI77, FI78, FI79, FI80, FI81, FI82, FI83, FI84, FI85, FI86, FI87, FI88, FI89, FI90, FI91, FI92, FI93, FI94, FI95, FI96, FI97, FI98, FI99, FI100, FI101, FI102, FI103, FI104, FI105, FI106, FI107, FI108, FI109, FI110, FI111, FI112, FI113, FI114, FI115, FI116, FI117, FI118, FI119, FI120, FI121, FI122, FI123, FI124, FI125, FI126, FI127, FI128, FI129, FI130, FI131, FI132, FI133, FI134, FI135, FI136, FI137, FI138, FI139, FI140, FI141, FI142, 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**INSPECTION PROCEDURE**

1	Read PNP, REVERSE, 2ND and LOW signals.
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**When using TOYOTA hand-held tester****PREPARATION:**

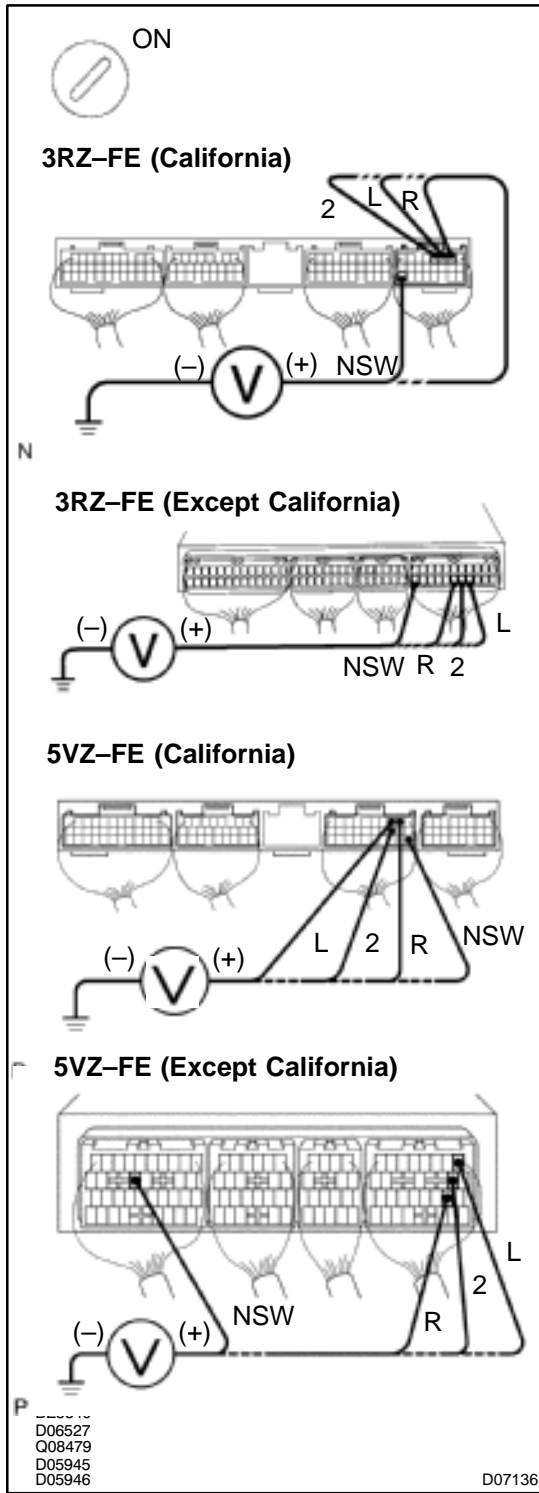
- (a) Remove the DLC3 cover.
- (b) Connect a TOYOTA hand-held tester to the DLC3.
- (c) Turn the ignition switch ON and TOYOTA hand-held tester main switch ON.

**CHECK:**

Shift lever into the P, R, N, 2 and L positions, and read the PNP, REVERSE, 2ND and LOW signals on the TOYOTA hand-held tester.

**OK:**

Shift position	Signal
2	2ND OFF → ON
L	LOW OFF → ON
R	REVERSE OFF → ON
P, N	PNP OFF → ON

**When not using TOYOTA hand-held tester****PREPARATION:**

Turn the ignition switch ON.

**CHECK:**

Measure voltage between terminals NSW, 2, L and R of ECM and body ground when the shift lever is shifted to the following positions.

**OK:**

Position	NSW-Body ground	R-Body ground	2-Body ground	L-Body ground
P,N	0 V	0 V	0 V	0 V
R	7.5 – 14 V*	7.5 – 14 V*	0 V	0 V
D	7.5 – 14 V	0 V	0 V	0 V
2	7.5 – 14 V	0 V	7.5 – 14 V	0 V
L	7.5 – 14 V	0 V	0 V	7.5 – 14 V

**HINT:**

\*: The voltage will drop slightly due to lighting up of the back up light.

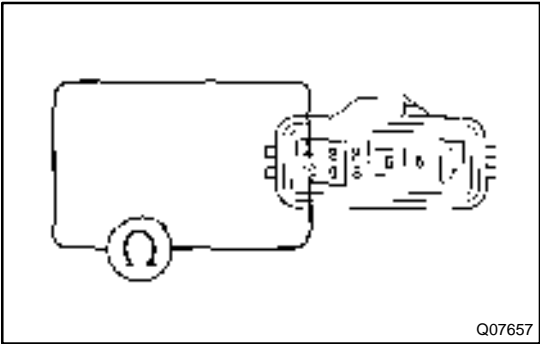
**OK**

**Check and replace the ECM**  
(See page [IN-28](#)).

**NG**

2

Check park/neutral position 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:**

Shift Position	Terminal No. to continuity	Terminal No. to continuity
P	4 – 7	5 – 6
R	4 – 8	–
N	4 – 10	5 – 6
D	4 – 9	–
2	4 – 2	–
L	4 – 3	–

NG

Replace the park/neutral position switch  
(See page [IN-28](#)).

OK

Repair or replace harness and connector between battery and park/neutral position switch, park/neutral position switch and ECM (See page [IN-28](#)).