

<b>DTC</b>	<b>P0705</b>	<b>Transmission Range Sensor Malfunction (PRNDL Input)</b>
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<b>DTC</b>	<b>P0850</b>	<b>Park/Neutral Switch Input Circuit</b>
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## CIRCUIT DESCRIPTION

The park/neutral position switch goes on when the shift lever is in the N or P shift position. When it goes on terminal NSW of the ECM is grounded to body ground via the starter relay, thus the terminal NSW voltage becomes 0V. When the shift lever is in the D, 2, L or R position, the park/neutral position switch goes off, so the voltage of ECM. Terminal NSW becomes battery voltage, the voltage of the ECM internal power source. If the shift lever is moved from the N position to the D position, this signal is used for air–fuel ratio correction and for idle speed control (estimated control), etc.

DTC No.	DTC Detection Condition	Trouble Area
P0705 P0850	2 or more switches are ON simultaneously for P, R, N, D, 2 and L position (2 trip detection logic)	<ul style="list-style-type: none"> <li>• Open 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 sec. or more 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	

### HINT:

After confirming DTC P0705 and P0850 use the hand–held tester to confirm the PNP switch signal from the "DIAGNOSIS/ENHANCED OBD II/DATA LIST/ALL/PNP SW [NSW]".

## WIRING DIAGRAM

Refer to DTC P0705, P0850 on page [DI-482](#).

## INSPECTION PROCEDURE

Refer to DTC P0705, P0850 on page [DI-482](#).