DTC	P1780/97	PARK/NEUTRAL POSITION SWITCH MALFUNCTION

CIRCUIT DESCRIPTION

The neutral start 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 the 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 the ECM. Terminal NSW becomes battery voltage and 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 Detecting Condition	Trouble Area
P1780/97	2 or more switches are ON simultaneously for N, 2, L and R positions (2 trip detection logic)When driving under conditions (a) and (b) for 30 seconds or more neutral start 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	• Short in neutral start switch circuit • Neutral start switch • ECM

HINT:
After confirming DTC P1780/97, use the hand–held tester to confirm the neutral start switch signal from the CURRENT DATA.

WIRING DIAGRAM

Refer to 05–672.

INSPECTION PROCEDURE

Refer to 05–672.