

DTC P0850 [ZJ, Z6]

B3E010200800W01

DTC P0850	Neutral switch input circuit problem
DETECTION CONDITION	<ul style="list-style-type: none"> The PCM monitors changes in input voltage from neutral switch. If the PCM does not detect PCM terminal 1AB voltage changes while running vehicle with vehicle speed 30 km/h {19 mph} or more and clutch pedal turns press and depress 10 times repeatedly, the PCM determines that there is a neutral switch circuit problem. Diagnostic support note This is a continuous monitor (CCM). The MIL illuminates if the PCM detects the above malfunction condition in two consecutive drive cycles or in one drive cycle while the DTC for the same malfunction has been stored in the PCM. PENDING CODE is available if the PCM detects the above malfunction condition during the first drive cycle. FREEZE FRAME DATA is available. The DTC is stored in the PCM memory.
POSSIBLE CAUSE	<ul style="list-style-type: none"> Neutral switch malfunction Connector or terminal malfunction Open circuit in wiring harness between neutral switch terminal A and PCM terminal 1AB Short to GND in wiring harness between neutral switch terminal A and PCM terminal 1AB Open circuit in wiring harness between neutral switch terminal B and GND PCM malfunction
<div style="text-align: center;"> <p>NEUTRAL SWITCH</p> <p>PCM</p> <p>NEUTRAL SWITCH WIRING HARNESS-SIDE CONNECTOR</p> <p>PCM WIRING HARNESS-SIDE CONNECTOR</p> </div>	

Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA HAS BEEN RECORDED • Has FREEZE FRAME DATA been recorded?	Yes Go to the next step.
		No Record the FREEZE FRAME DATA on the repair order, then go to the next step.
2	VERIFY RELATED REPAIR INFORMATION AVAILABILITY • Verify related Service Information availability. • Is any related repair information available?	Yes Perform repair or diagnosis according to the available repair information. • If the vehicle is not repaired, go to the next step.
		No Go to the next step.
	INSPECT NEUTRAL SWITCH CONNECTOR FOR	

3	POOR CONNECTION <ul style="list-style-type: none"> • Turn the ignition switch off. • Disconnect the neutral switch connector. • Inspect for poor connection (such as damaged/pulled-out pins, corrosion). • Is there any malfunction? 	Yes	Repair or replace the terminal, then go to Step 9.
		No	Go to the next step.
4	INSPECT NEUTRAL SWITCH GND CIRCUIT FOR OPEN CIRCUIT <ul style="list-style-type: none"> • Turn the ignition switch off. • Inspect for continuity between neutral switch terminal B (wiring harness-side) and body GND. • Is there continuity? 	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible open circuit, then go to Step 9.
5	INSPECT NEUTRAL SWITCH SIGNAL CIRCUIT FOR SHORT TO GND <ul style="list-style-type: none"> • Turn the ignition switch off. • Inspect for continuity between neutral switch terminal A (wiring harness-side) and body GND. • Is there continuity? 	Yes	Repair or replace the wiring harness for a possible short to GND, then go to Step 9.
		No	Go to the next step.
6	INSPECT NEUTRAL SWITCH <ul style="list-style-type: none"> • Inspect the neutral switch. (See NEUTRAL SWITCH INSPECTION [ZJ, Z6].) • Is there any malfunction? 	Yes	Replace the neutral switch, then go to Step 9. (See NEUTRAL SWITCH REMOVAL/INSTALLATION [F35M-R].)
		No	Go to the next step.
7	INSPECT PCM CONNECTOR FOR POOR CONNECTION <ul style="list-style-type: none"> • Turn the ignition switch off. • Disconnect the PCM connector. • Inspect for poor connection (such as damaged/pulled-out pins, corrosion). • Is there any malfunction? 	Yes	Repair or replace the terminal, then go to Step 9.
		No	Go to the next step.
8	INSPECT NEUTRAL SWITCH SIGNAL CIRCUIT FOR OPEN CIRCUIT <ul style="list-style-type: none"> • Turn the ignition switch off. • Inspect for continuity between neutral switch terminal A (wiring harness-side) and PCM terminal 1AB (wiring harness-side). • Is there continuity? 	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible open circuit, then go to the next step.
9	VERIFY TROUBLESHOOTING OF DTC P0850 COMPLETED <ul style="list-style-type: none"> • Make sure to reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the WDS or equivalent. • Depress and release clutch pedal more than 10 times repeatedly under the following condition: <ul style="list-style-type: none"> - Vehicle speed: 30 km/h {19 mph} or more • Is the PENDING CODE for this DTC present? 	Yes	Replace the PCM, then go to the next step. (See PCM REMOVAL/INSTALLATION [ZJ, Z6].)
		No	Go to the next step.
10	VERIFY AFTER REPAIR PROCEDURE <ul style="list-style-type: none"> • Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [ZJ, Z6].) • Are any DTCs present? 	Yes	Go to the applicable DTC inspection. (See DTC TABLE [ZJ, Z6].)
		No	DTC troubleshooting completed.