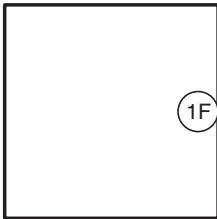
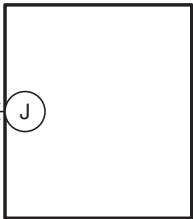
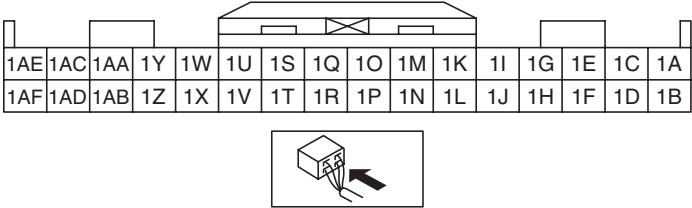
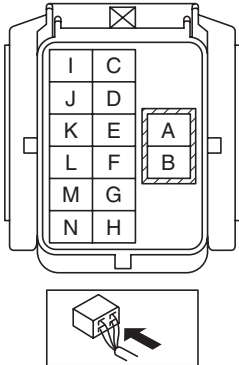


DTC P0850:24 [START STOP UNIT]

id0902p6023300

System malfunction location	TCM circuit malfunction
Detection condition	<ul style="list-style-type: none"> With the ignition switched ON (engine off or on), it is detected that the transaxle range sensor CAN signal is other than P and N position for 1 s or more continuously for a continuous 5 or more times even though the TCM CAN signal is in P or N position.
Fail-safe	<ul style="list-style-type: none"> Perform control of the internal signal for control of the transaxle range sensor as position other than P, N positions.
Possible cause	<ul style="list-style-type: none"> TCM connector or terminal malfunction Start stop unit connector or terminal malfunction Short to ground in wiring harness between start stop unit terminal 1F and TCM terminal J Open circuit in wiring harness between start stop unit terminal 1F and TCM terminal J Transaxle range sensor malfunction Start stop unit malfunction
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>START STOP UNIT</p>  </div> <div style="text-align: center;"> <p>TCM</p>  </div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 20px;"> <div style="text-align: center;"> <p>START STOP UNIT WIRING HARNESS-SIDE CONNECTOR</p>  </div> <div style="text-align: center;"> <p>TCM WIRING HARNESS-SIDE CONNECTOR</p>  </div> </div>	

Diagnostic Procedure

Step	Inspection	Action	
1	INSPECT TCM CONNECTOR CONDITION <ul style="list-style-type: none">• Switch the ignition to off.• Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)• Disconnect the TCM connector.• Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection.• Is the connector normal?	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 6.

Step	Inspection	Action	
2	INSPECT START STOP UNIT CONNECTOR CONDITION <ul style="list-style-type: none"> • Disconnect the start stop unit connector. • Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. • Is the connector normal? 	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 6.
3	INSPECT TCM CIRCUIT FOR SHORT TO GROUND <ul style="list-style-type: none"> • Verify that the start stop unit and TCM connectors are disconnected. • Inspect for continuity between TCM terminal J (vehicle wiring harness side) and body ground. • Is there continuity? 	Yes	Repair or replace the wiring harness which is shorted to ground, then go to Step 6.
		No	Go to the next step.
4	INSPECT TCM CIRCUIT FOR OPEN CIRCUIT <ul style="list-style-type: none"> • Verify that the start stop unit and TCM connectors are disconnected. • Inspect the wiring harness for continuity between start stop unit terminal 1F (vehicle wiring harness side) and TCM terminal J (vehicle wiring harness side). • Is there continuity? 	Yes	Go to the next step.
		No	Repair or replace the wiring harness which has an open circuit, then go to Step 6.
5	PERFORM DTC INSPECTION AND VERIFY IF MALFUNCTIONING PART IS TRANSAXLE RANGE SENSOR <ul style="list-style-type: none"> • Reconnect all the disconnected connectors. • Reconnect the disconnected negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Clear DTC for the start stop unit using the M-MDS. (See CLEARING DTC [START STOP UNIT].) • Switch the ignition ON (engine off). • Perform the following work five or more times. <ul style="list-style-type: none"> — Operate the selector lever to positions to other than P and N and wait for 1 s or more. — Operate the selector lever to positions to P or N and wait for 1 s or more. — Operate the selector lever to positions to other than P and N. • Perform the DTC inspection for the start stop unit using the M-MDS. (See DTC INSPECTION [START STOP UNIT].) • Is DTC P0850:24 displayed? 	Yes	Replace the TCM, then go to the next step. (See CONTROL VALVE BODY REMOVAL/ INSTALLATION [FW6A-EL, FW6AX-EL].)
		No	Go to Step 7.

Step	Inspection	Action	
6	VERIFY THAT REPAIRS HAVE BEEN COMPLETED <ul style="list-style-type: none">• Reconnect all the disconnected connectors.• Reconnect the disconnected negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)• Clear DTC for the start stop unit using the M-MDS. (See CLEARING DTC [START STOP UNIT].)• Switch the ignition ON (engine off).• Perform the following work five or more times.<ul style="list-style-type: none">— Operate the selector lever to positions to other than P and N and wait for 1 s or more.— Operate the selector lever to positions to P or N and wait for 1 s or more.— Operate the selector lever to positions to other than P and N.• Perform the DTC inspection for the start stop unit using the M-MDS. (See DTC INSPECTION [START STOP UNIT].)• Is DTC P0850:24 displayed?	Yes	Replace the start stop unit, then go to the next step. (See START STOP UNIT REMOVAL/INSTALLATION.)
		No	Go to the next step.
7	VERIFY IF OTHER DTCs DISPLAYED <ul style="list-style-type: none">• Are any other DTCs displayed?	Yes	Repair the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [START STOP UNIT].)
		No	DTC troubleshooting completed.