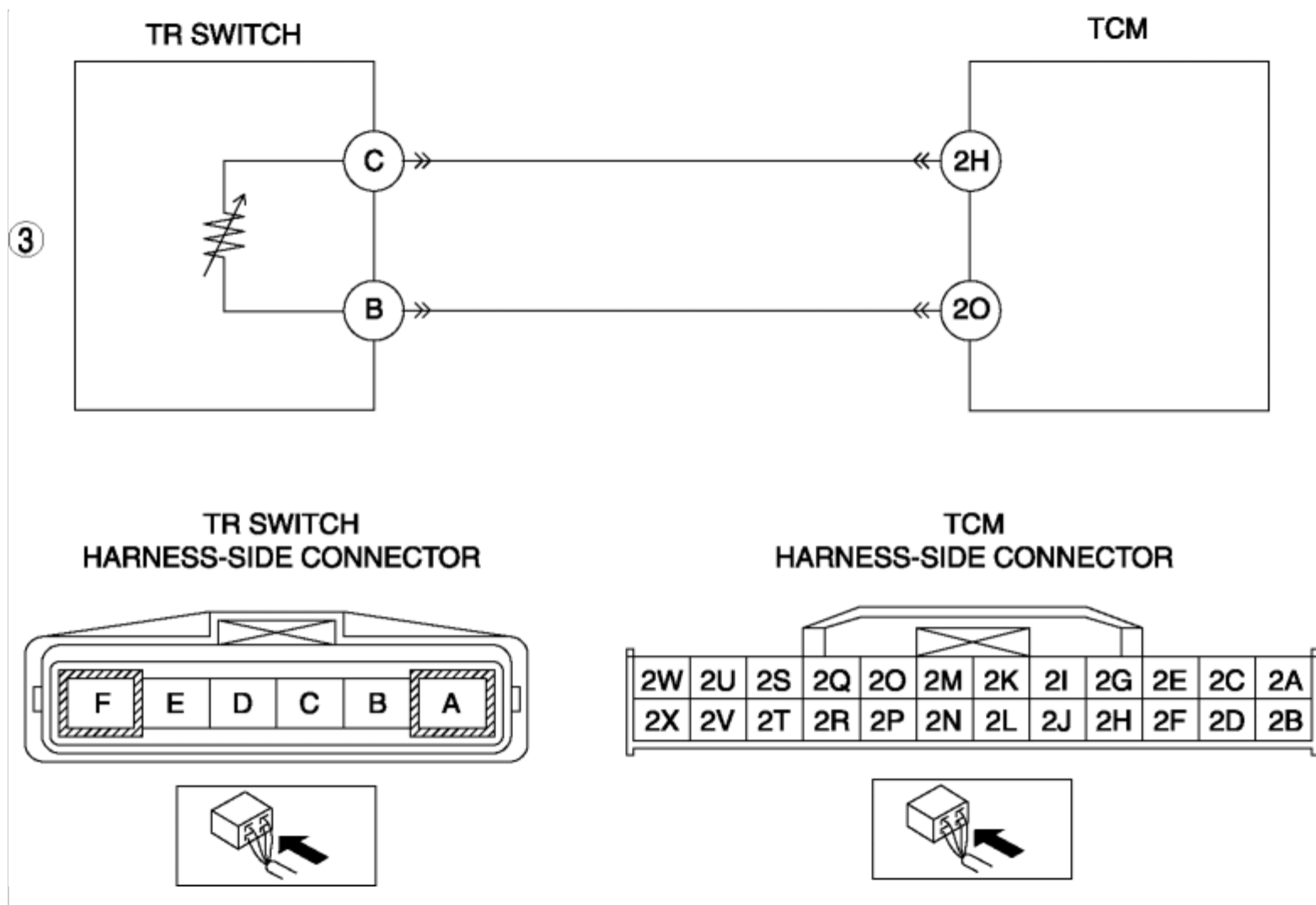


2012 - Mazda6 - Transmission/ Transaxle

DTC P0706:00 [FS5A-EL]

DTC P0706:00	TR switch circuit range/performance
DETECTION CONDITION	• The TCM detects no position signal for 100 s when the following conditions are met. ▪ Input voltage from the TR switch: 0.49—4.78 V ▪ Vehicle speed: 20 km/h {13 mph} or more Diagnostic support note • The MIL illuminates if the TCM 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 TCM. • The AT warning light illuminates. • PENDING CODE is available. • FREEZE FRAME DATA is available. • The DTC is stored in the TCM memory.
POSSIBLE CAUSE	• TR switch misadjustment • TR switch malfunction • TCM malfunction



Diagnostic procedure

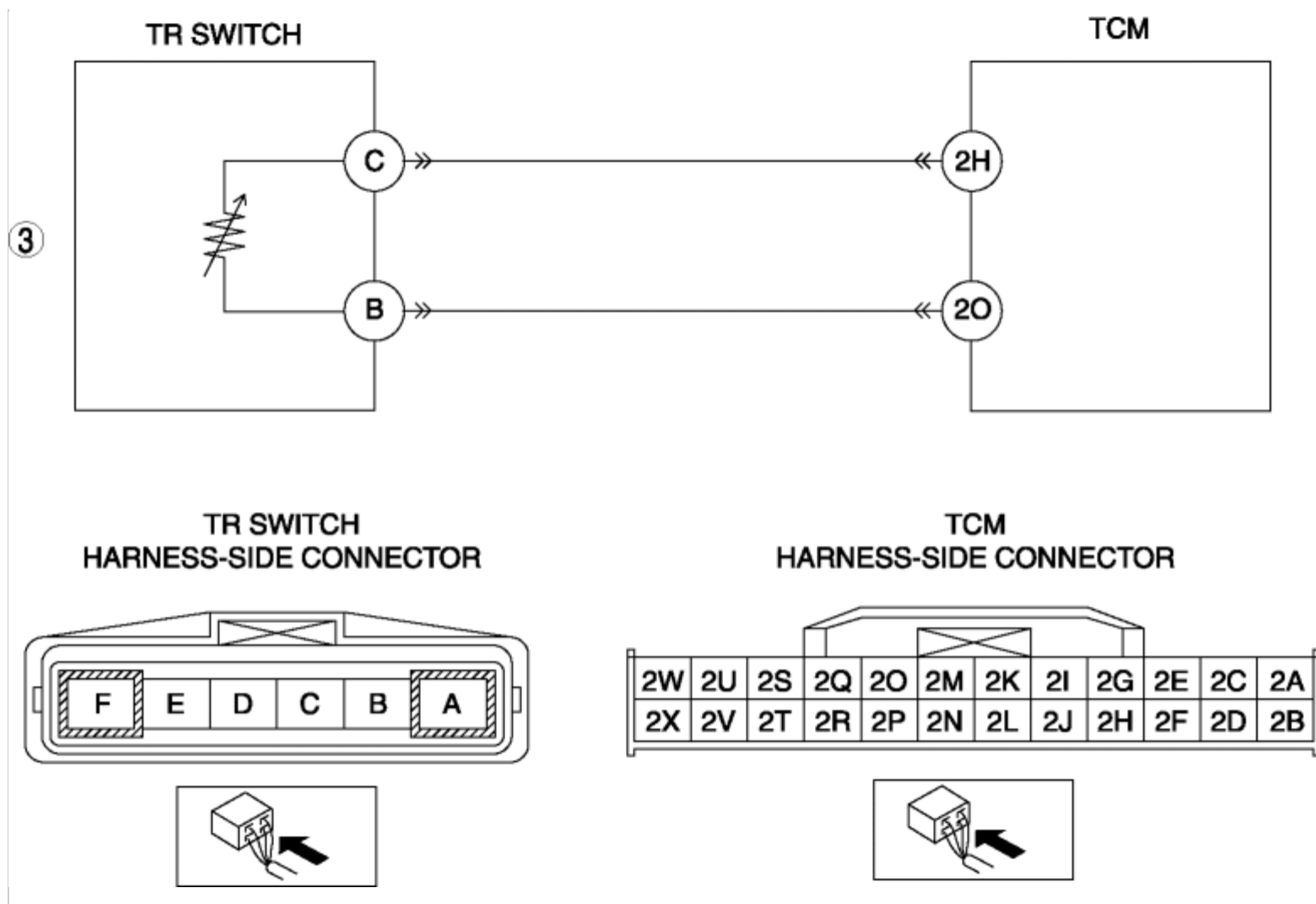
STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA HAS BEEN RECORDED Has the FREEZE FRAME DATA been recorded on the repair order?	Yes Go to the next step.
		No Record the FREEZE FRAME DATA on the repair order, then go to the next step.
2	VERIFY RELATED REPAIR INFORMATION AVAILABILITY - Verify related Service Bulletins and/or on-line repair 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.
3	INSPECT TR SWITCH Inspect the TR switch.	Yes Adjust or replace the TR switch, then go to the next step.

	(See TRANSAXLE RANGE (TR) SWITCH INSPECTION [FS5A-EL].) Is there any malfunction?	(See TRANSAXLE RANGE (TR) SWITCH ADJUSTMENT [FS5A-EL].) (See TRANSAXLE RANGE (TR) SWITCH REMOVAL/ INSTALLATION [FS5A-EL].)
		No Go to the next step.
4	VERIFY TROUBLESHOOTING OF DTC P0706:00 COMPLETED - Make sure to reconnect all the disconnected connectors. - Clear the DTC using the M-MDS. - Perform the following procedure to ensure that the DTC has been resolved: - Drive the vehicle at 20 km/h {13 mph} or more for 100 s or more. - Is the PENDING CODE same as the DTC present?	Yes Replace the TCM, then go to the next step. (See TCM REMOVAL/ INSTALLATION [FS5A-EL].)
		No Go to the next step.
5	VERIFY NO DTCs ARE PRESENT - Perform the "Reading DTCs Procedure". (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [FS5A-EL].) - Are any DTCs present?	Yes Go to the applicable DTC inspection. (See ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [FS5A-EL].)
		No DTC troubleshooting completed.

2012 - Mazda6 - Transmission/ Transaxle

DTC P0706:00 [FS5A-EL]

DTC P0706:00	TR switch circuit range/performance
DETECTION CONDITION	• The TCM detects no position signal for 100 s when the following conditions are met. ▪ Input voltage from the TR switch: 0.49—4.78 V ▪ Vehicle speed: 20 km/h {13 mph} or more Diagnostic support note • The MIL illuminates if the TCM 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 TCM. • The AT warning light illuminates. • PENDING CODE is available. • FREEZE FRAME DATA is available. • The DTC is stored in the TCM memory.
POSSIBLE CAUSE	• TR switch misadjustment • TR switch malfunction • TCM malfunction



Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA HAS BEEN RECORDED Has the FREEZE FRAME DATA been recorded on the repair order?	Yes Go to the next step.
		No Record the FREEZE FRAME DATA on the repair order, then go to the next step.
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		No Go to the next step.
3	INSPECT TR SWITCH Inspect the TR switch.	Yes Adjust or replace the TR switch, then go to the next step.

	(See TRANSAXLE RANGE (TR) SWITCH INSPECTION [FS5A-EL].) Is there any malfunction?	(See TRANSAXLE RANGE (TR) SWITCH ADJUSTMENT [FS5A-EL].) (See TRANSAXLE RANGE (TR) SWITCH REMOVAL/ INSTALLATION [FS5A-EL].)
		No Go to the next step.
4	VERIFY TROUBLESHOOTING OF DTC P0706:00 COMPLETED - Make sure to reconnect all the disconnected connectors. - Clear the DTC using the M-MDS. - Perform the following procedure to ensure that the DTC has been resolved: - Drive the vehicle at 20 km/h {13 mph} or more for 100 s or more. - Is the PENDING CODE same as the DTC present?	Yes Replace the TCM, then go to the next step. (See TCM REMOVAL/ INSTALLATION [FS5A-EL].)
		No Go to the next step.
5	VERIFY NO DTCs ARE PRESENT - Perform the "Reading DTCs Procedure". (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [FS5A-EL].) - Are any DTCs present?	Yes Go to the applicable DTC inspection. (See ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [FS5A-EL].)
		No DTC troubleshooting completed.