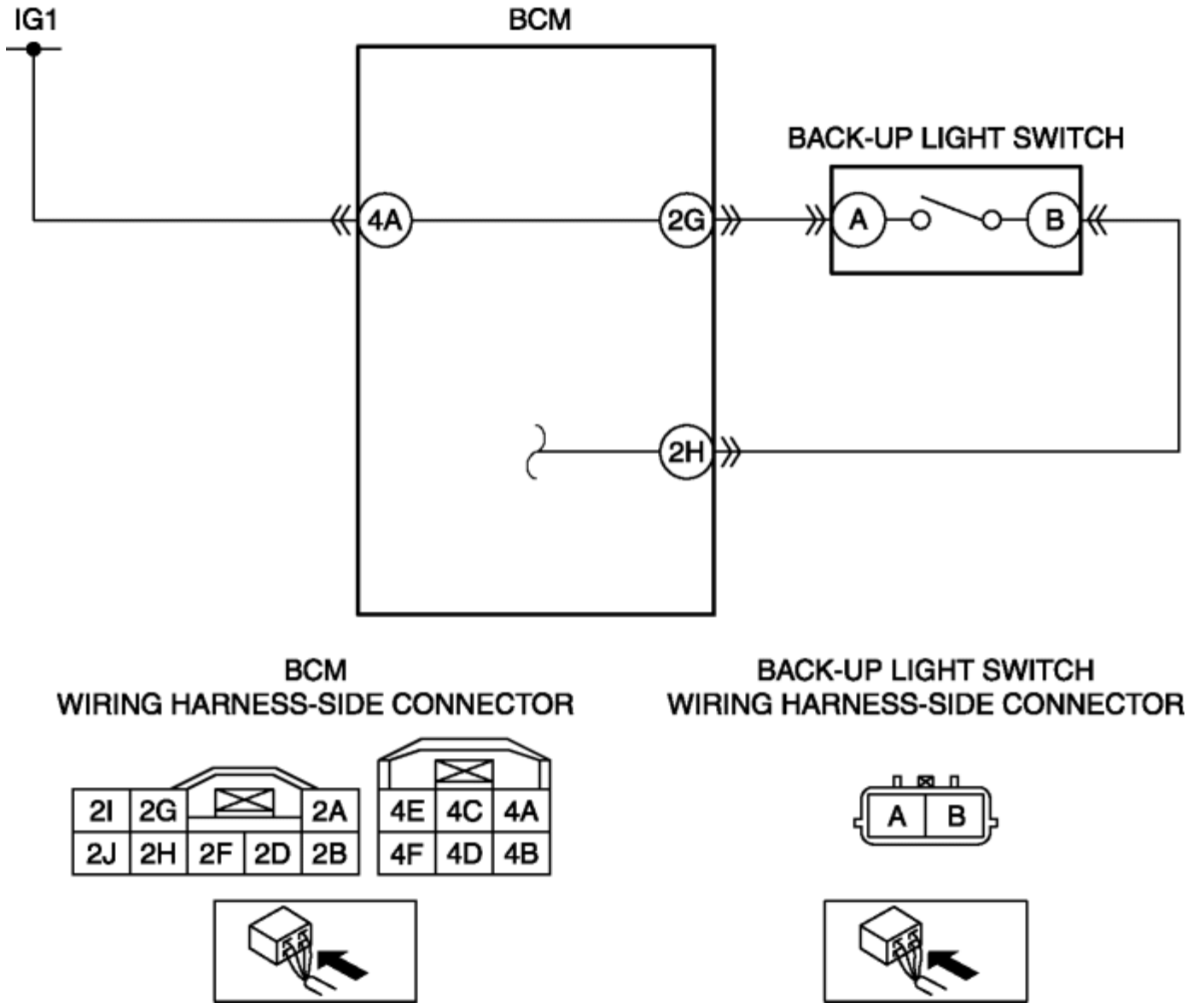
2012 - Mazda6 - Brakes

DTC C1137:64 [DYNAMIC STABILITY CONTROL (DSC)]

DTC 1137:64	Reverse signal (MTX)
DETECTION CONDITION	• Detect the reverse signal for **10 s or more** under the following condition: ▪ Vehicle speed: **60 km/h {37 mph} or more**
POSSIBLE CAUSE	• BCM malfunction • Connector or terminal malfunction • Back-up light switch malfunction • Short to power supply in wiring harness between back-up light switch terminal B and BCM terminal 2H • DSC HU/CM malfunction



Diagnostic procedure

STEP	INSPECTION		ACTION
1	**PERFORM BCM DTC INSPECTION** • Perform the BCM DTC inspection using the M-MDS. (See **DTC INSPECTION [BCM]**.) • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See **DTC TABLE [BCM]**.)
		No	Go to the next step.
2	**INSPECT BACK-UP LIGHT SWITCH CONNECTOR CONDITION** • Switch the ignition to off. • Disconnect the negative battery cable.	Yes	Repair or replace the connector or terminals, then go to Step 6.
		No	Go to the next step.

	Disconnect the back-up light switch connector. • Inspect the connector and terminals (corrosion, damage, pin disconnection). • Is there any malfunction?		
3	**INSPECT BACK-UP LIGHT SWITCH** • Inspect the back-up light switch. (See **BACK-UP LIGHT SWITCH INSPECTION**.) • Is there any malfunction?	Yes	Replace the back-up light switch, then go to Step 6. (See **BACK-UP LIGHT SWITCH REMOVAL/ INSTALLATION [G66M-R]**.)
		No	Go to the next step.
4	**INSPECT BCM CONNECTOR CONDITION** • Disconnect the BCM connector. • Inspect the connector and terminals (corrosion, damage, pin disconnection). • Is there any malfunction?	Yes	Repair or replace the connector or terminals, then go to Step 6.
		No	Go to the next step.
5	**INSPECT BACK-UP LIGHT SWITCH CIRCUIT FOR SHORT TO POWER SUPPLY** • Reconnect the negative battery cable. • Switch the ignition to ON (engine off). • Measure the voltage between back-up light switch terminal B (wiring harness-side) and body ground. • Is there any voltage?	Yes	Repair or replace the wiring harness for a possible short to power supply, then go to the next step.
		No	Go to the next step.
6	**VERIFY DTC TROUBLESHOOTING COMPLETED** • Reconnect the disconnected connectors. • Reconnect the negative battery cable. • Clear the DTC from the DSC HU/CM memory using the M-MDS. (See **ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)]**.) • Drive the vehicle at speed of **60 km/h {37 mph} or more**. • Gradually slow down and stop the vehicle.	Yes	Repeat the inspection from Step 1. If the malfunction recurs, replace the DSC HU/CM, then go to the next step. (See **DSC HU/CM REMOVAL/ INSTALLATION**.)
		No	Go to the next step.

	• Perform the DSC DTC inspection. (See **ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)]**.) • Is the same DTC present?		
7	**VERIFY AFTER REPAIR PROCEDURE** • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See **ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)]**.)
		No	DTC troubleshooting completed.

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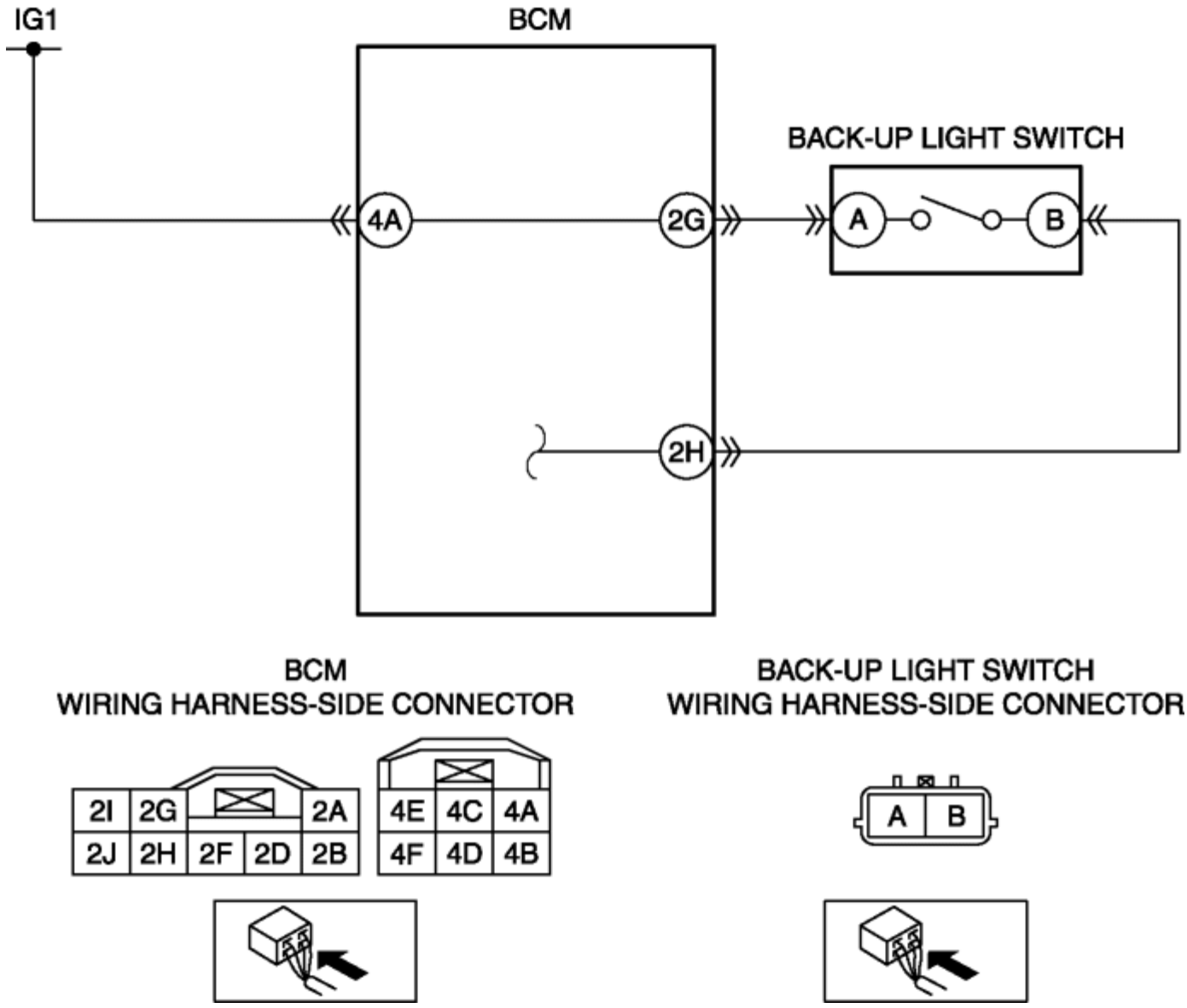
DTC C1137:64 [DYNAMIC STABILITY CONTROL (DSC)]

DTC 1137:64	Reverse signal (MTX)
DETECTION CONDITION	• Detect the reverse signal for **10 s or more** under the following condition: ▪ Vehicle speed: **60 km/h {37 mph} or more**
POSSIBLE CAUSE	• BCM malfunction • Connector or terminal malfunction • Back-up light switch malfunction • Short to power supply in wiring harness between back-up light switch terminal B and BCM terminal 2H • DSC HU/CM malfunction



Diagnostic procedure

STEP	INSPECTION		ACTION
1	**PERFORM BCM DTC INSPECTION** • Perform the BCM DTC inspection using the M-MDS. (See **DTC INSPECTION [BCM]**.) • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See **DTC TABLE [BCM]**.)
		No	Go to the next step.
2	**INSPECT BACK-UP LIGHT SWITCH CONNECTOR CONDITION** • Switch the ignition to off. • Disconnect the negative battery cable.	Yes	Repair or replace the connector or terminals, then go to Step 6.
		No	Go to the next step.

	Disconnect the back-up light switch connector. • Inspect the connector and terminals (corrosion, damage, pin disconnection). • Is there any malfunction?		
3	**INSPECT BACK-UP LIGHT SWITCH** • Inspect the back-up light switch. (See **BACK-UP LIGHT SWITCH INSPECTION**.) • Is there any malfunction?	Yes	Replace the back-up light switch, then go to Step 6. (See **BACK-UP LIGHT SWITCH REMOVAL/ INSTALLATION [G66M-R]**.)
		No	Go to the next step.
4	**INSPECT BCM CONNECTOR CONDITION** • Disconnect the BCM connector. • Inspect the connector and terminals (corrosion, damage, pin disconnection). • Is there any malfunction?	Yes	Repair or replace the connector or terminals, then go to Step 6.
		No	Go to the next step.
5	**INSPECT BACK-UP LIGHT SWITCH CIRCUIT FOR SHORT TO POWER SUPPLY** • Reconnect the negative battery cable. • Switch the ignition to ON (engine off). • Measure the voltage between back-up light switch terminal B (wiring harness-side) and body ground. • Is there any voltage?	Yes	Repair or replace the wiring harness for a possible short to power supply, then go to the next step.
		No	Go to the next step.
6	**VERIFY DTC TROUBLESHOOTING COMPLETED** • Reconnect the disconnected connectors. • Reconnect the negative battery cable. • Clear the DTC from the DSC HU/CM memory using the M-MDS. (See **ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)]**.) • Drive the vehicle at speed of **60 km/h {37 mph} or more**. • Gradually slow down and stop the vehicle.	Yes	Repeat the inspection from Step 1. If the malfunction recurs, replace the DSC HU/CM, then go to the next step. (See **DSC HU/CM REMOVAL/ INSTALLATION**.)
		No	Go to the next step.

	• Perform the DSC DTC inspection. (See **ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)]**.) • Is the same DTC present?		
7	**VERIFY AFTER REPAIR PROCEDURE** • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See **ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)]**.)
		No	DTC troubleshooting completed.

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