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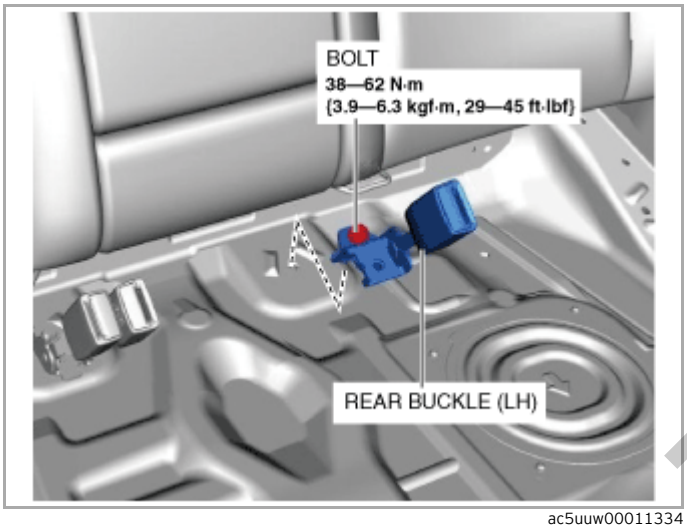
2016 MAZDA 3 / Axela Hatchback OEM Service and Repair Workshop Manual

Go to manual page

6.Remove the rear center seat belt.

7.Remove the bolt.



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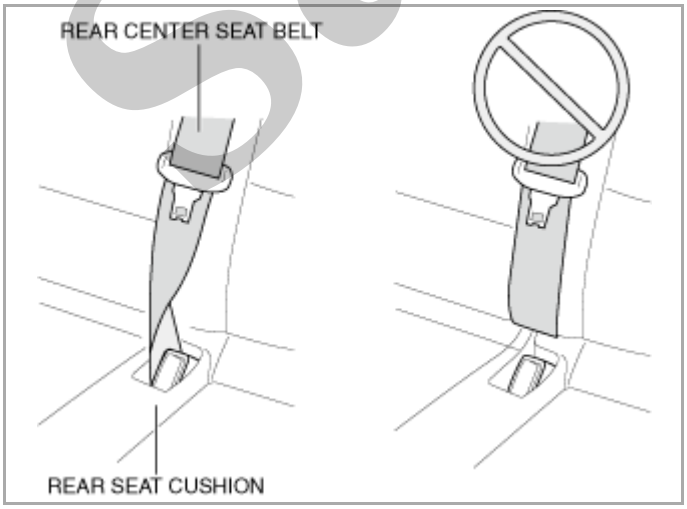
8.Remove the rear buckle (LH).

9.Install in the reverse order of removal. (See Rear buckle installation note.)

Rear buckle installation note

1.After installing the rear seat cushion, place the rear center seat belt as shown in the figure.



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RH

1.Switch the ignition to off.

REAR CENTER SEAT BELT REMOVAL/INSTALLATION

SM2898850

id08110080090

Caution

• If the retractor is disassembled, it will not operate correctly due to looseness and excessive play of the internal parts, therefore, do not disassemble the retractor.

Note

• The rear center seat belt is building into the rear seat back (LH).

1.Switch the ignition to off.

2.Disconnect the negative battery terminal and wait for 1 min or more. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.)

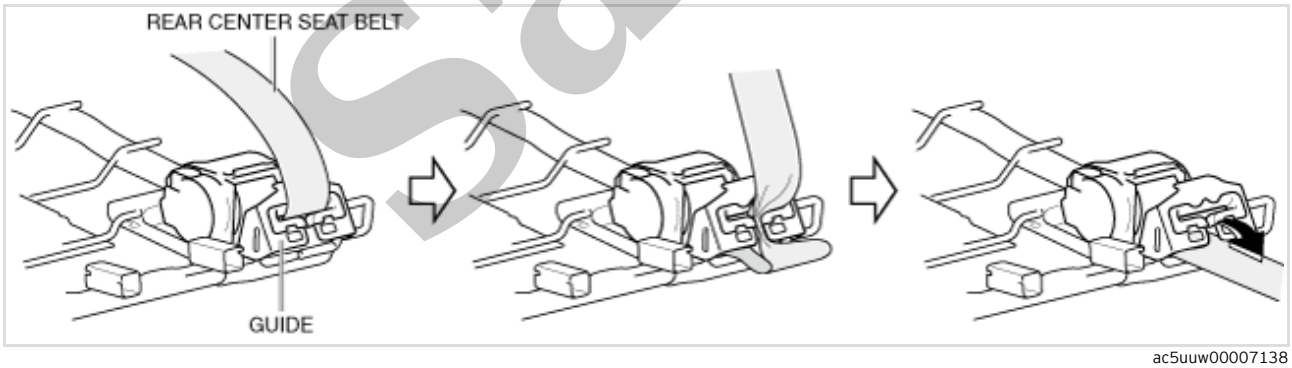
3.Remove the following parts:

(1)Rear seat cushion (See REAR SEAT CUSHION REMOVAL/INSTALLATION.)

(2)Rear seat back (LH) (See REAR SEAT BACK REMOVAL/INSTALLATION.)

(3)Rear seat back frame (See REAR SEAT BACK FRAME REMOVAL/INSTALLATION.)

4.Remove the rear center seat belt from the guide.



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5.Remove the cover.

ADJUSTER ANCHOR REMOVAL/INSTALLATION

SM2898851

id08110080200

Warning

• The side air bag sensor is attached to the lower part of the B-pillar. When working around the B-pillar, disconnect the negative battery terminal or work carefully, avoiding excessive impact to the lower part of the B-pillar.

1.Switch the ignition off.

2.Disconnect the negative battery terminal and wait for 1 min or more. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.)

3.Set the adjuster to the lowest position.

4.Remove the following parts:

(1)Adjuster anchor cover (See FRONT SEAT BELT REMOVAL/INSTALLATION.)

(2)Front scuff plate (See FRONT SCUFF PLATE REMOVAL/INSTALLATION.)

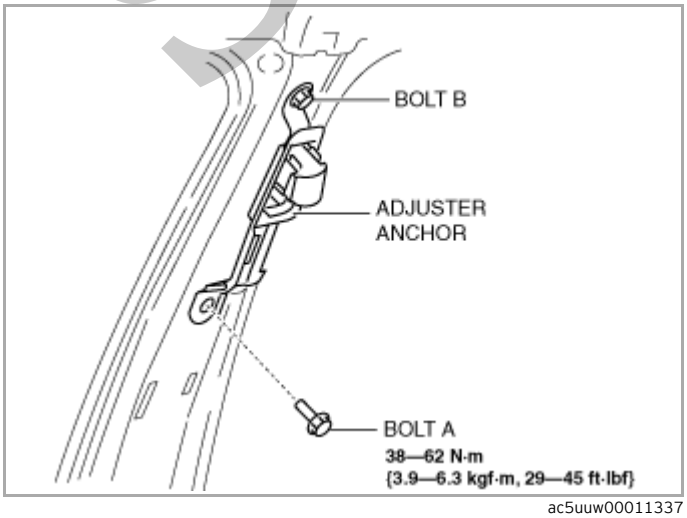
(3)Rear scuff plate (See REAR SCUFF PLATE REMOVAL/INSTALLATION.)

(4)B-pillar lower trim (See B-PILLAR LOWER TRIM REMOVAL/INSTALLATION.)

(5)Front seat belt upper anchor installation bolt (See FRONT SEAT BELT REMOVAL/INSTALLATION.)

(6)B-pillar upper trim (See B-PILLAR UPPER TRIM REMOVAL/INSTALLATION.)

5.Remove bolt A.



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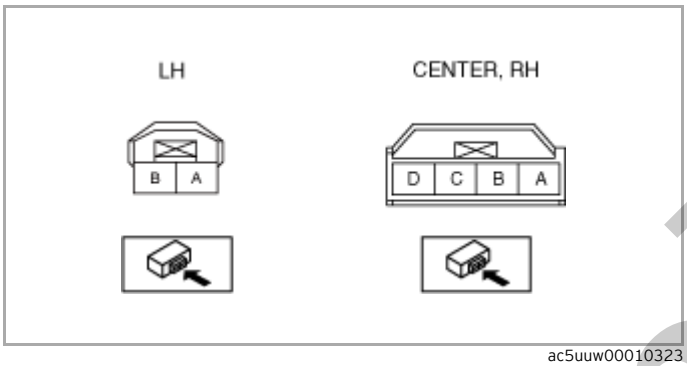
6.Remove bolt B.

2.Disconnect the negative battery terminal and wait for 1 min or more. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.)

3.Remove the rear seat cushion. (See REAR SEAT CUSHION REMOVAL/INSTALLATION.)

4.Remove the rear buckle. (See REAR BUCKLE REMOVAL/INSTALLATION.)

5.Inspect for continuity between the buckle switch terminals using a tester.



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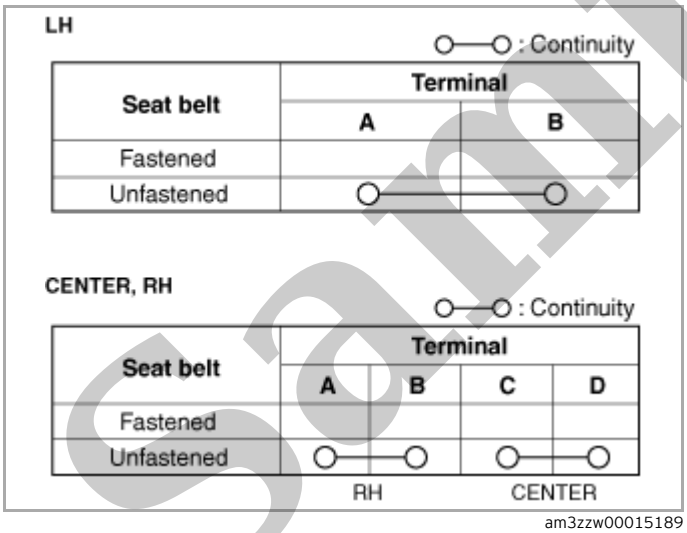
- If not as indicated in the table, replace the rear buckle. (See REAR BUCKLE REMOVAL/INSTALLATION.)



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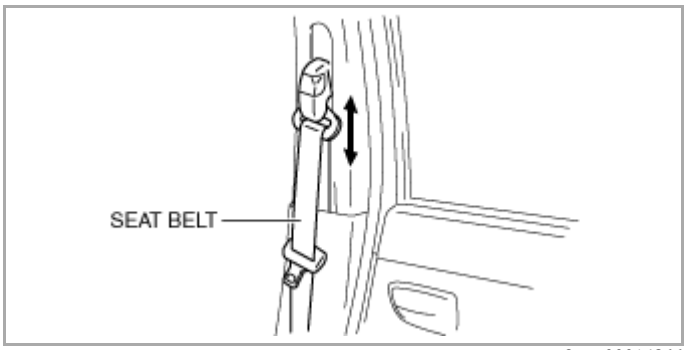
Except rear center seat belt

1.Verify that the belt can be pulled out smoothly, and that it retracts smoothly.



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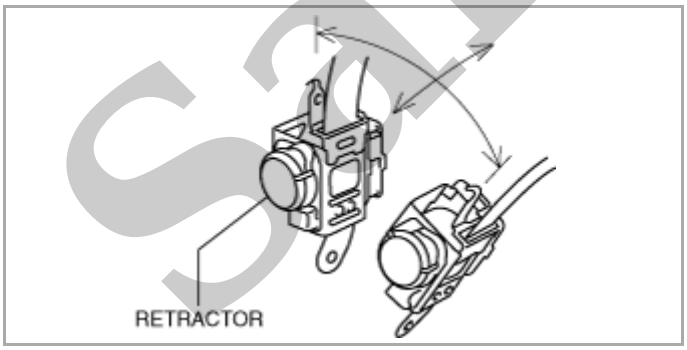
• If there is any malfunction, replace the seat belt. (See FRONT SEAT BELT REMOVAL/INSTALLATION.)(See REAR SEAT BELT REMOVAL/INSTALLATION.)

2.Verify that the retractor locks when the belt is pulled quickly.

• If there is any malfunction, replace the seat belt. (See FRONT SEAT BELT REMOVAL/INSTALLATION.)(See REAR SEAT BELT REMOVAL/INSTALLATION.)

3.Remove the retractor. (See FRONT SEAT BELT REMOVAL/INSTALLATION.)(See REAR SEAT BELT REMOVAL/INSTALLATION.)

4.While pulling the seat belt out, verify that the seat belt does not lock when the retractor is tilted slowly up to 12° from the mounted position and locks when the retractor is tilted 27° or more.



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• If there is any malfunction, replace the seat belt. (See FRONT SEAT BELT REMOVAL/INSTALLATION.)(See REAR SEAT BELT REMOVAL/INSTALLATION.)

Rear center seat belt

Caution

• The rear center seat belt ELR only becomes operable after a certain amount of belt webbing is pulled out. For the ELR inspection, fasten the rear center seat belt to the rear buckle (center) and perform the inspection after pulling out the rear center seat belt 130 mm {5.12 in} (ELR operable condition). If the inspection is performed while the ELR is not in an operable condition, the integrity of the system cannot be determined.

REAR SEAT BELT REMOVAL/INSTALLATION

SM2898849

id08110080080

Warning

• Handling the rear seat belt (rear pre-tensioner seat belt) improperly can accidentally deploy the pre-tensioner, which may seriously injure you. Read the air bag system service warnings and cautions before handling the rear seat belt (rear pre-tensioner seat belt). (See AIR BAG SYSTEM SERVICE WARNINGS [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.].) (See AIR BAG SYSTEM SERVICE CAUTIONS [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.].)

Caution

• If the retractor is disassembled, it will not operate correctly due to looseness and excessive play of the internal parts, therefore, do not disassemble the retractor.

With Rear Pre-tensioner Seat Belt

1.Switch the ignition to off.

2.Disconnect the negative battery terminal and wait for 1 min or more. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.)

3.Remove the following parts:

(1)Trunk board (See TRUNK BOARD REMOVAL/INSTALLATION.)

(2)Bass-box (with Bose®) (See BASS-BOX REMOVAL/INSTALLATION.)

(3)Sub-trunk (See SUB-TRUNK REMOVAL/INSTALLATION.)

(4)Trunk end trim (See TRUNK END TRIM REMOVAL/INSTALLATION.)

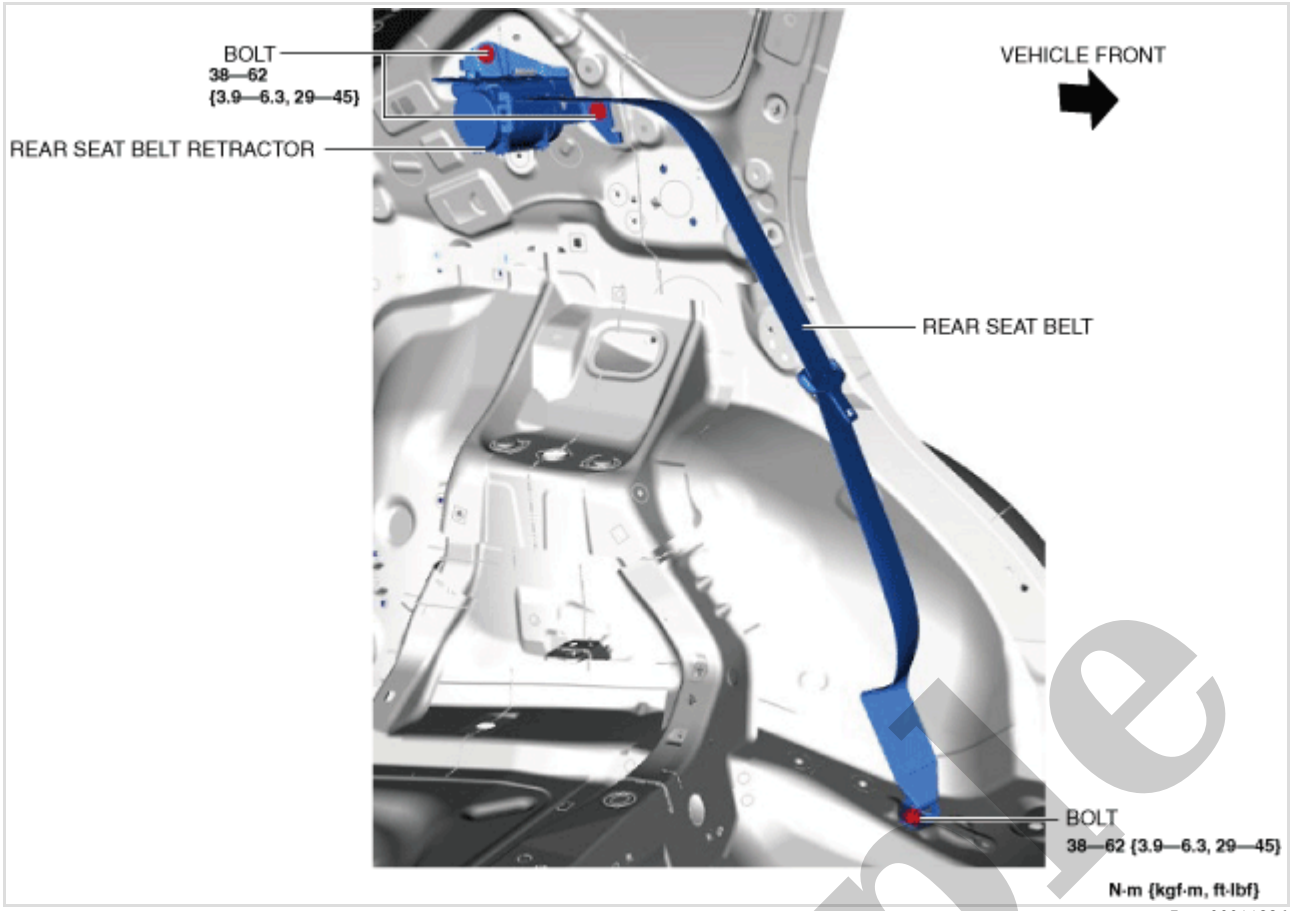
(5)Rear scuff plate (See REAR SCUFF PLATE REMOVAL/INSTALLATION.)

(6)Trunk side trim (See TRUNK SIDE TRIM REMOVAL/INSTALLATION.)

(7)C-pillar trim (See C-PILLAR TRIM REMOVAL/INSTALLATION.)

(8)Rear seat cushion (See REAR SEAT CUSHION REMOVAL/INSTALLATION.)

4.Using a flathead screwdriver, lift the rear pre-tensioner seat belt connector locking device carefully, however do not remove it.



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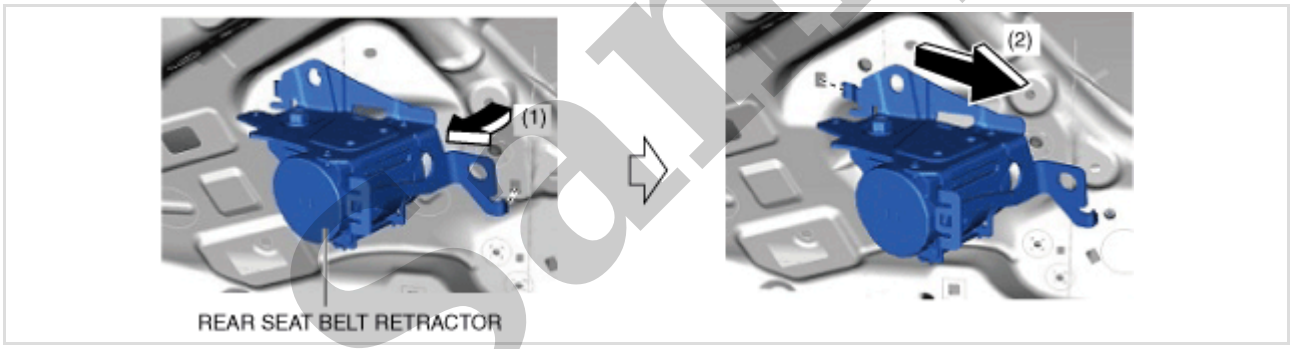
5.Move the rear seat belt retractor in the order of arrows (1) and (2) shown in the figure, and remove it from the body.



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6.Remove the rear seat belt.

7.Install in the reverse order of removal.

Step	Inspection		Action
4	**INSPECT CLUSTER SWITCH CIRCUIT FOR OPEN CIRCUIT** • Verify that the cluster switch and instrument cluster connectors are disconnected. • Inspect for continuity between instrument cluster terminal V (wiring harness-side) and cluster switch terminal B (wiring harness-side). • Is there continuity?	Yes	Go to the next step.
		No	Refer to the wiring diagram and verify whether or not there is a common connector between instrument cluster terminal V and cluster switch terminal B. **If there is a common connector:** • Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for an open circuit. • Repair or replace the malfunctioning part. **If there is no common connector:** • Repair or replace the wiring harness which has an open circuit. Go to Step 6.
5	**INSPECT CLUSTER SWITCH** • Inspect the cluster switch. (See TCS OFF SWITCH INSPECTION [2WD].) (See OFF-ROAD TRACTION ASSIST SWITCH INSPECTION [AWD].) (See LDWS OFF SWITCH INSPECTION.) (See 360°VIEW MONITOR SWITCH INSPECTION.) • Is the cluster switch normal?	Yes	Go to the next step.
		No	Replace the cluster switch, then go to the next step. (See CLUSTER SWITCH REMOVAL/INSTALLATION.)
6	**VERIFY THAT REPAIRS HAVE BEEN COMPLETED** • Always reconnect all disconnected connectors. • Connect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) • Clear the DTC for the instrument cluster using the M-MDS. (See CLEARING DTC [INSTRUMENT CLUSTER].) • Switch the ignition ON (engine off or on). • Retrieve the instrument cluster DTCs using the M-MDS. (See DTC INSPECTION [INSTRUMENT CLUSTER].) • Is the same DTC displayed?	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/INSTALLATION.) Go to the next step.
		No	Go to the next step.
7	**VERIFY IF OTHER DTCs DISPLAYED** • Are any other DTCs displayed?	Yes	Repair or replace the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [INSTRUMENT CLUSTER].)
		No	DTC troubleshooting completed.

DTC U2300:56 [INSTRUMENT CLUSTER]

SM2898878

id0902e801690

Description	Instrument cluster configuration error
Detection condition	• Instrument cluster configuration error (incorrect value write) detected.
Fail-safe function	Not applicable
Possible cause	• Instrument cluster configuration error • Instrument cluster malfunction
System wiring diagram	Not applicable

Diagnostic Procedure

Step	Inspection		Action
1	PERFORM INSTRUMENT CLUSTER CONFIGURATION (USING AS-BUILT DATA) • Using the M-MDS, perform the instrument cluster configuration (using As-Built data). (See INSTRUMENT CLUSTER CONFIGURATION (USING AS-BUILT DATA).) • Clear the DTC for the instrument cluster using the M-MDS. (See CLEARING DTC [INSTRUMENT CLUSTER].) • Retrieve the instrument cluster DTCs using the M-MDS. (See DTC INSPECTION [INSTRUMENT CLUSTER].) • Is the same DTC displayed?	Yes	Using the M-MDS, perform the instrument cluster configuration (using As-Built data) again, then go to the next step. (See INSTRUMENT CLUSTER CONFIGURATION (USING AS-BUILT DATA).)
		No	Go to Step 3.
2	VERIFY THAT REPAIRS HAVE BEEN COMPLETED • Clear the DTC for the instrument cluster using the M-MDS. (See CLEARING DTC [INSTRUMENT CLUSTER].) • Retrieve the instrument cluster DTCs using the M-MDS. (See DTC INSPECTION [INSTRUMENT CLUSTER].) • Is the same DTC displayed?	Yes	Replace the instrument cluster, then go to the next step. (See INSTRUMENT CLUSTER REMOVAL/INSTALLATION.)
		No	Go to the next step.
3	VERIFY IF OTHER DTCs DISPLAYED • Are any other DTCs displayed?	Yes	Repair or replace the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [INSTRUMENT CLUSTER].)
		No	DTC troubleshooting completed.