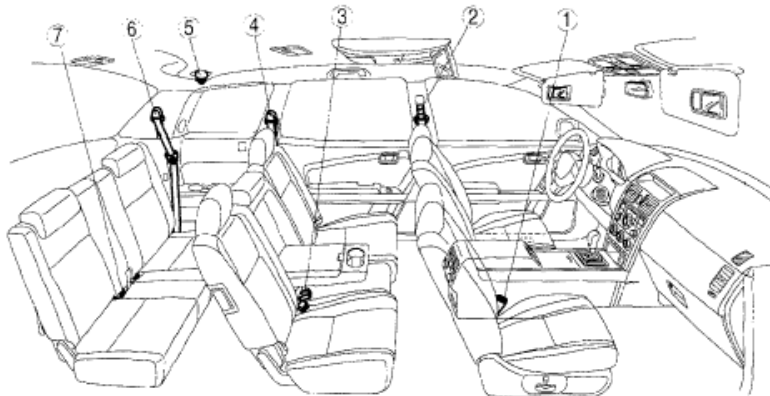


2008 RESTRAINTS

Seat Belt - Mazda CX-9

SEAT BELT LOCATION INDEX



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1	Front buckle (See 08-11-7 FRONT BUCKLE REMOVAL/ INSTALLATION.) (See 08-11-8 BUCKLE SWITCH INSPECTION.)
2	Front seat belt (See 08-11-2 FRONT SEAT BELT REMOVAL/ INSTALLATION.) (See 08-11-3 ADJUSTER ANCHOR REMOVAL/ INSTALLATION.) (See 08-11-6 SEAT BELT INSPECTION.)
3	Second-row buckle (See 08-11-7 SECOND-ROW BUCKLE REMOVAL/ INSTALLATION.)

4	Second-row seat belt (See 08-11-3 SECOND-ROW SEAT BELT REMOVAL/INSTALLATION.) (See 08-11-6 SEAT BELT INSPECTION.)
5	Second-row center seat belt (See 08-11-7 SECOND-ROW BUCKLE REMOVAL/ INSTALLATION.)
6	Third-row seat belt (See 08-11-5 THIRD-ROW SEAT BELT REMOVAL/ INSTALLATION.) (See 08-11-6 SEAT BELT INSPECTION.)
7	Third-row buckle (See 08-11-8 THIRD-ROW BUCKLE REMOVAL/ INSTALLATION.)

Fig. 1: Identifying Seat Belt Location
Courtesy of MAZDA MOTORS CORP.

FRONT SEAT BELT REMOVAL/INSTALLATION

WARNING:

- Handling the front seat belt (pre-tensioner seat belt) improperly can accidentally deploy the pre-tensioner seat belt, which may seriously injure you. Read the service warnings and cautions before handling the front seat belt (pre-tensioner seat belt). (See AIR BAG SYSTEM SERVICE WARNINGS .) (See AIR BAG SYSTEM SERVICE CAUTIONS .)
- Side air bag sensor No.1 is attached to the lower part of the B-pillar. When working around the B-pillar, disconnect the negative battery cable or work carefully, avoiding excessive impact to the lower part of the B-pillar.

CAUTION:

- The ELR (emergency locking retractor) has a spring that will unwind if the retractor cover is removed. The spring cannot be rewound by hand. If this occurs, the ELR will not work properly. Therefore, do not disassemble the retractor.

1. Turn the ignition switch to the LOCK position.
2. Disconnect the negative battery cable and wait for **1 min or more** .
3. Remove the front scuff plate inner. (See **FRONT SCUFF PLATE REMOVAL/INSTALLATION** .)
4. Remove the rear scuff plate inner. (See **REAR SCUFF PLATE REMOVAL/INSTALLATION** .)
5. Remove the cover by pulling it in the direction of the arrow.

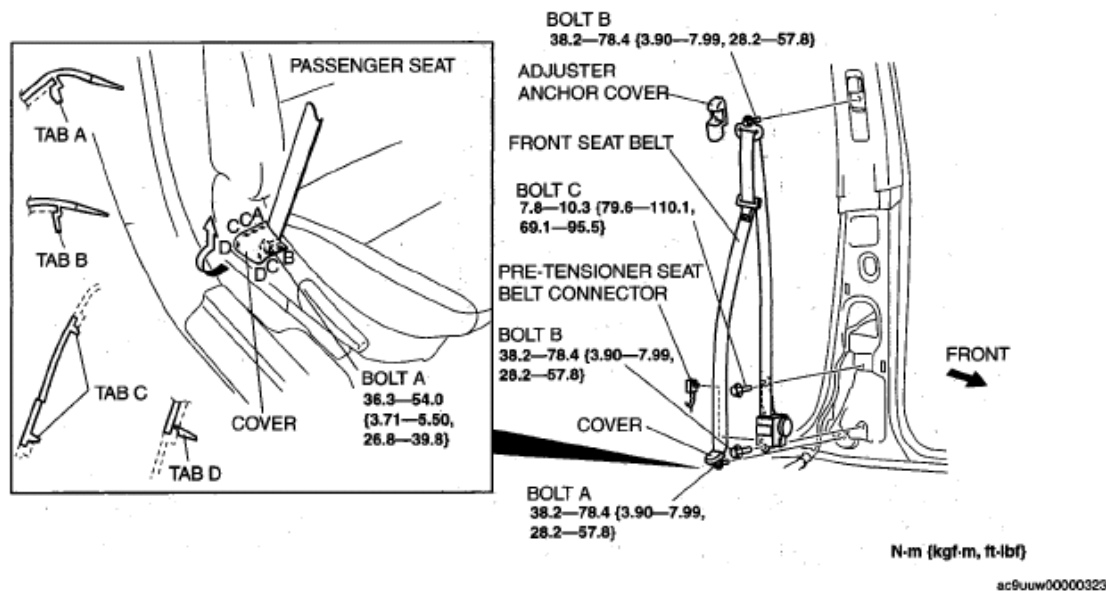


Fig. 2: Identifying Front Seat Belt, Bolts & Torque Specifications
 Courtesy of MAZDA MOTORS CORP.

6. Remove the bolt A.
7. Remove the B-pillar lower trim. (See **B-PILLAR LOWER TRIM REMOVAL/INSTALLATION** .)
8. Remove the adjuster anchor cover.
9. Remove the bolt B and bolt C, then remove the front seat belt.
10. Using a screwdriver, pry out the pre-tensioner seat belt connector's stopper plate.
11. Disconnect the pre-tensioner seat belt connector.
12. Install in the reverse order of removal.
13. Turn the ignition switch to the ON position.
14. Verify that the air bag system warning light illuminates for **approx. 6 s** and goes out.
 - If the air bag system warning light does not operate, refer to the on-board diagnostic system (air bag system) and perform inspection of the system. (See **FLOWCHART** .)

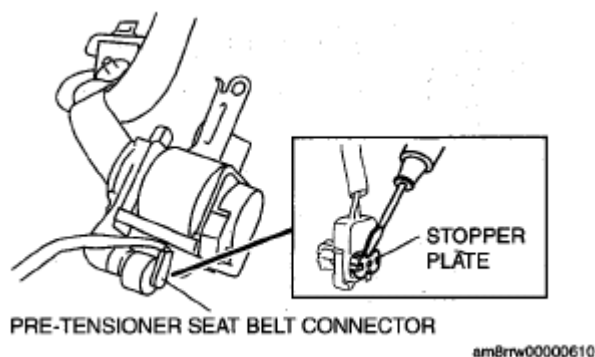


Fig. 3: Prying Out Pre-Tensioner Seat Belt Connector's Stopper Plate Using Screwdriver
Courtesy of MAZDA MOTORS CORP.

ADJUSTER ANCHOR REMOVAL/INSTALLATION

WARNING:

- Side air bag sensor No.1 is attached to the lower part of the B-pillar. When working around the B-pillar, disconnect the negative battery cable or work carefully, avoiding excessive impact to the lower part of the B-pillar.

1. Turn the ignition switch to the LOCK position.
2. Disconnect the negative battery cable.
3. Remove the following parts:
 1. Front scuff plate inner (See **FRONT SCUFF PLATE REMOVAL/INSTALLATION** .)
 2. Rear scuff plate inner (See **REAR SCUFF PLATE REMOVAL/INSTALLATION** .)
 3. Front seat belt lower anchor installation bolt (See **FRONT SEAT BELT 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** .)
4. Remove the bolt.
5. Rotate the adjuster anchor in the direction of the arrow.
6. Remove the adjuster anchor by pulling it outward.
7. Install in the reverse order of removal.

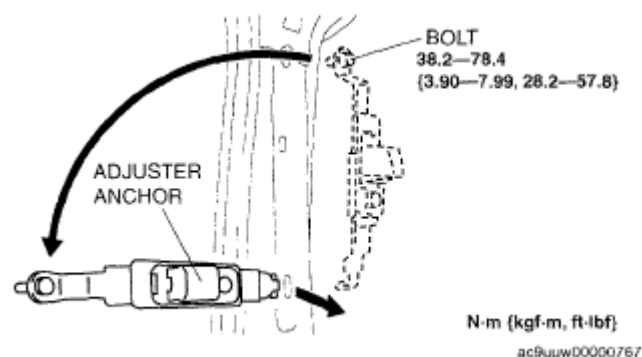


Fig. 4: Rotating Adjuster Anchor & Torque Specifications
Courtesy of MAZDA MOTORS CORP.

SECOND-ROW SEAT BELT REMOVAL/INSTALLATION

CAUTION:

- The ELR (emergency locking retractor) has a spring that will unwind if the retractor cover is removed. The spring cannot be rewound by hand. If this occurs, the ELR will not work properly. Therefore, do not disassemble the retractor.

1. Turn the ignition switch to the LOCK position.
2. Disconnect the negative battery cable.
3. Remove the following parts:
 1. Trunk box (See **TRUNK BOX REMOVAL/INSTALLATION** .)
 2. Seat side box (See **SEAT SIDE BOX REMOVAL/INSTALLATION** .)
 3. Trunk end trim (See **TRUNK END TRIM REMOVAL/INSTALLATION** .)
 4. Third-row seat (See **THIRD-ROW SEAT REMOVAL/INSTALLATION** .)
 5. Third-row seat belt lower anchor installation bolt (See **THIRD-ROW SEAT BELT REMOVAL/INSTALLATION** .)
 6. Rear scuff plate inner (See **REAR SCUFF PLATE REMOVAL/INSTALLATION** .)
 7. Trunk side trim (See **TRUNK SIDE TRIM REMOVAL/INSTALLATION** .)
4. Remove the cover.
5. Remove the bolt.
6. Remove the second-row seat belt.
7. Install in the reverse order of removal.

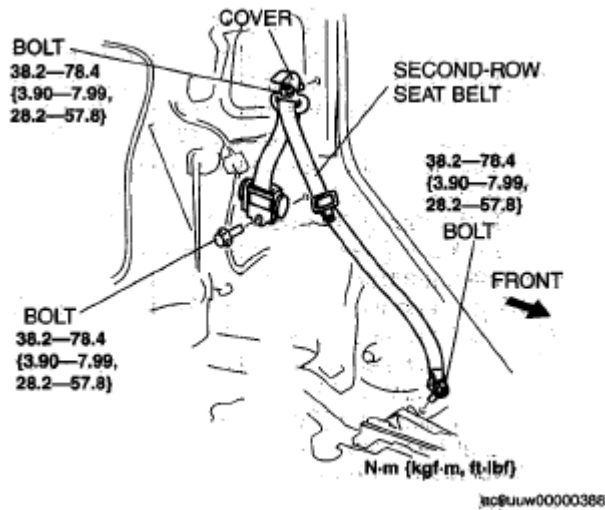


Fig. 5: Identifying Second-Row Seat Belt, Bolt & Torque Specifications
Courtesy of MAZDA MOTORS CORP.

SECOND-ROW CENTER SEAT BELT REMOVAL/INSTALLATION

CAUTION:

- The ELR (emergency locking retractor) has a spring that will unwind if the retractor cover is removed. The spring cannot be rewound by hand. If this occurs, the ELR will not work properly. Therefore, do not disassemble the retractor.

1. Turn the ignition switch to the LOCK position.
2. Disconnect the negative battery cable.
3. Remove the following parts:
 1. A-pillar trim (See [A-PILLAR TRIM REMOVAL/INSTALLATION](#) .)
 2. Front scuff plate inner (See [FRONT SCUFF PLATE REMOVAL/INSTALLATION](#) .)
 3. Rear scuff plate inner (See [REAR SCUFF PLATE REMOVAL/INSTALLATION](#) .)
 4. Front seat belt lower anchor installation bolt (See [FRONT SEAT BELT REMOVAL/INSTALLATION](#) .)
 5. B-pillar lower trim (See [B-PILLAR LOWER TRIM REMOVAL/INSTALLATION](#) .)
 6. Front seat belt upper anchor installation bolt (See [FRONT SEAT BELT REMOVAL/INSTALLATION](#) .)
 7. B-pillar upper trim (See [B-PILLAR UPPER TRIM REMOVAL/INSTALLATION](#) .)
 8. Trunk box (See [TRUNK BOX REMOVAL/INSTALLATION](#) .)
 9. Seat side box (See [SEAT SIDE BOX REMOVAL/INSTALLATION](#) .)
 10. Trunk end trim (See [TRUNK END TRIM REMOVAL/INSTALLATION](#) .)
 11. Third-row seat (See [THIRD-ROW SEAT REMOVAL/INSTALLATION](#) .)
 12. Third-row seat belt lower anchor installation bolt (See [THIRD-ROW SEAT BELT](#)

REMOVAL/INSTALLATION.)

13. Trunk side trim (See **TRUNK SIDE TRIM REMOVAL/INSTALLATION .)**
 14. Roof side trim (See **ROOF SIDE TRIM REMOVAL/INSTALLATION .)**
 15. Second-row seat belt upper anchor installation bolt (See **SECOND-ROW SEAT BELT REMOVAL/INSTALLATION.)**
 16. C-pillar trim (See **C-PILLAR TRIM REMOVAL/INSTALLATION .)**
 17. Third-row seat belt upper anchor installation bolt (See **THIRD-ROW SEAT BELT REMOVAL/INSTALLATION.)**
 18. D-pillar trim (See **D-PILLAR TRIM REMOVAL/INSTALLATION .)**
 19. Front map light (See **FRONT MAP LIGHT REMOVAL/INSTALLATION .)**
 20. Sunvisor (See **SUNVISOR REMOVAL/INSTALLATION .)**
 21. Assist handle (See **ASSIST HANDLE REMOVAL/INSTALLATION .)**
 22. RES unit cover (Vehicles with RES) (See **RES UNIT REMOVAL/INSTALLATION .)**
 23. Headliner (See **HEADLINER REMOVAL/INSTALLATION .)**
4. Remove the bolt.
 5. Remove the second-row center seat belt.
 6. Install in the reverse order of removal.

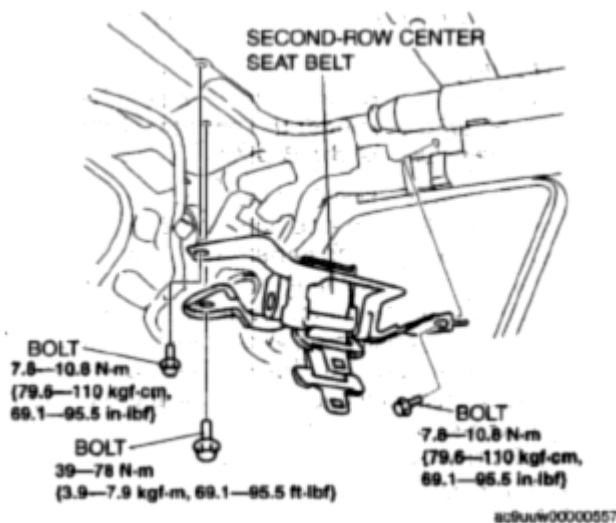


Fig. 6: Identifying Second-Row Center Seat Belt, Bolt & Torque Specifications
 Courtesy of MAZDA MOTORS CORP.

THIRD-ROW SEAT BELT REMOVAL/INSTALLATION

CAUTION:

- The ELR (emergency locking retractor) has a spring that will unwind if the retractor cover is removed. The spring cannot be rewound by hand. If this occurs, the ELR will not work properly. Therefore, do not disassemble the retractor.

1. Remove the following parts:
 1. Trunk box (See **TRUNK BOX REMOVAL/INSTALLATION** .)
 2. Seat side box (See **SEAT SIDE BOX REMOVAL/INSTALLATION** .)
 3. Trunk end trim (See **TRUNK END TRIM REMOVAL/INSTALLATION** .)
 4. Third-row seat (See **THIRD-ROW SEAT REMOVAL/INSTALLATION** .)
2. Remove the bolt A.
3. Remove the rear scuff plate inner. (See **REAR SCUFF PLATE REMOVAL/INSTALLATION** .)
4. Remove the trunk side trim. (See **TRUNK SIDE TRIM REMOVAL/INSTALLATION** .)
5. Remove the cover.
6. Remove the bolt B.
7. Remove the third-row seat belt.
8. Install in the reverse order of removal.

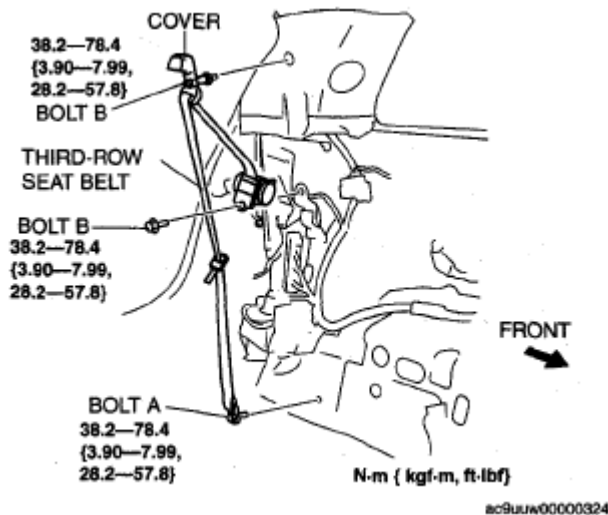


Fig. 7: Identifying Third-Row Seat Belt, Bolt & Torque Specifications
 Courtesy of MAZDA MOTORS CORP.

SEAT BELT INSPECTION

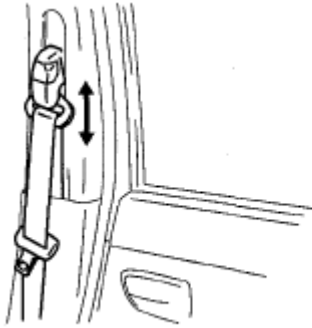
BELT

1. Verify that the belt is installed properly with no twists or kinks.
2. Verify that there is no damage to the seat belt and no deformation of the metal fittings.
 - If there is any malfunction, replace the seat belt.

ELR

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

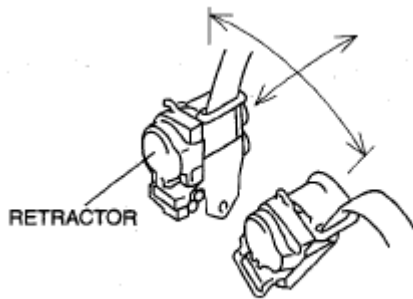
- If there is any malfunction, replace the seat belt.
2. Verify that the retractor locks when the belt is pulled quickly.
 - If there is any malfunction, replace the seat belt.
 3. Remove the retractor.



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Fig. 8: Checking Retractor
Courtesy of MAZDA MOTORS CORP.

4. While pulling the seat belt out, make sure that the seat belt does not lock when the retractor is tilted slowly **up to 15°** from the mounted position and locks when the retractor is tilted **40° or more**.
 - If there is any malfunction, replace the seat belt.



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Fig. 9: Identifying Retractor Angle
Courtesy of MAZDA MOTORS CORP.

ALR

1. Pull the belt out fully to change the lock mode from ELR to ALR.
2. Verify that retractor makes a clicking sound as the belt slowly retracts. If no sound is heard, the lock mode has not changed to ALR. If necessary, repeat Step 1.
 - If there is any malfunction, replace the seat belt.
3. Verify that the retractor locks when pulled.
 - If there is any malfunction, replace the seat belt.

4. Verify that the lock mode changes to ELR when the belt is fully pulled out.
 - If there is any malfunction, replace the seat belt.

LOAD LIMITER RETRACTOR

WARNING:

- When the load limiter operates, the belt and anchor rub against each other strongly leaving wear tracks. If the seat belt is used in this state, the seat belt will not function at its full capability and there is the possibility of serious injury to passengers. Be sure to replace the seat belt once the load limiter operates.
1. If the vehicle has been subjected to a shock in an accident, pull the belt from the retractor and confirm that there are no wear tracks (the load limiter has not operated) by visually inspecting and feeling the belt.
 - If there is any malfunction, replace the seat belt.

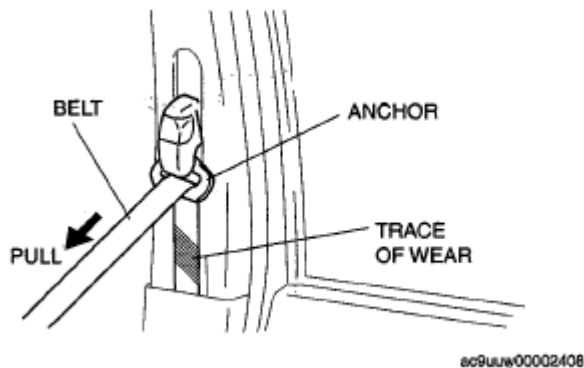


Fig. 10: Pulling Belt From Retractor
Courtesy of MAZDA MOTORS CORP.

FRONT BUCKLE REMOVAL/INSTALLATION

1. Remove the front seat. (See FRONT SEAT REMOVAL/INSTALLATION .)
2. Remove the side cover No.1. (See FRONT SEAT DISASSEMBLY/ASSEMBLY .)
3. Remove the bolt.
4. Remove the front buckle.
5. Install in the reverse order of removal.

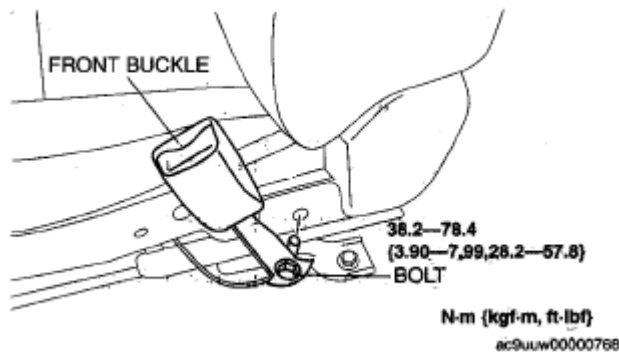


Fig. 11: Identifying Front Buckle, Bolt & Torque Specifications
 Courtesy of MAZDA MOTORS CORP.

SECOND-ROW BUCKLE REMOVAL/INSTALLATION

LH

1. Remove the second-row seat (LH). (See SECOND-ROW SEAT REMOVAL/INSTALLATION .)
2. Remove the bolt A.
3. Remove the second-row center buckle.
4. Remove the second-row seat (LH) seat cushion pad. (See SECOND-ROW SEAT DISASSEMBLY/ASSEMBLY .)
5. Remove the bolt B.
6. Remove the second-row buckle (LH).
7. Install in the reverse order of removal.

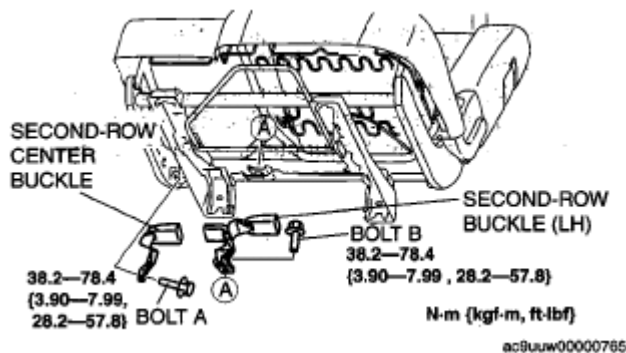


Fig. 12: Identifying Second-Row Center Buckle, Bolt & Torque Specifications
 Courtesy of MAZDA MOTORS CORP.

RH

1. Remove the second-row seat (RH). (See SECOND-ROW SEAT REMOVAL/INSTALLATION .)
2. Remove in bolt.

3. Remove the second-row buckle (RH).
4. Install in the reverse order of removal.

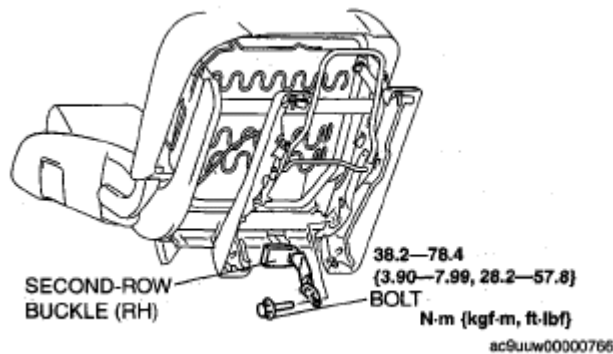


Fig. 13: Identifying Second-Row Buckle (RH), Bolt & Torque Specifications
Courtesy of MAZDA MOTORS CORP.

THIRD-ROW BUCKLE REMOVAL/INSTALLATION

REMOVAL

1. Fold the third-row seat backs forward.
2. Remove the trunk box. (See **TRUNK BOX REMOVAL/INSTALLATION** .)
3. Remove the bolt.
4. Remove the third-row buckle.

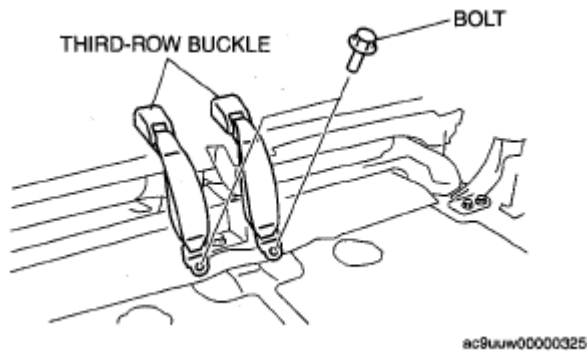
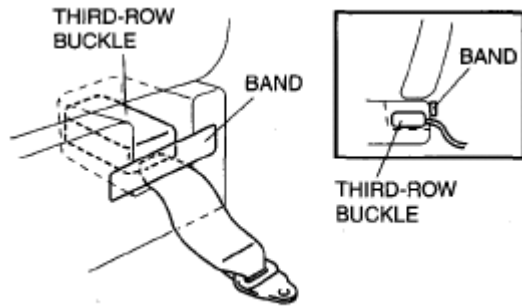


Fig. 14: Identifying Third-Row Buckle & Bolt
Courtesy of MAZDA MOTORS CORP.

INSTALLATION

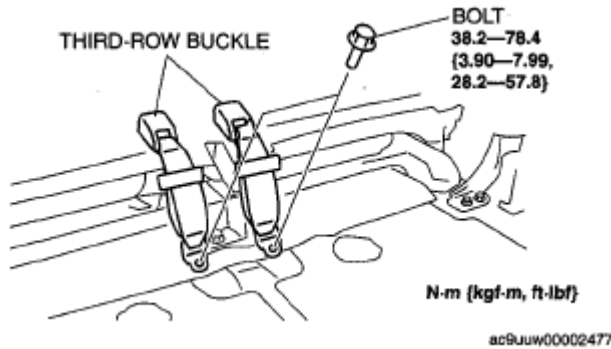
1. Bind the third-row seat belt buckles in a band as shown in the figure.



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Fig. 15: Binding Third-Row Seat Belt Buckles In Band
Courtesy of MAZDA MOTORS CORP.

2. Install the bolt.
3. Remove the trunk box. (See **TRUNK BOX REMOVAL/INSTALLATION** .)



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Fig. 16: Identifying Third-Row Buckle, Bolt & Torque Specifications
Courtesy of MAZDA MOTORS CORP.

BUCKLE SWITCH INSPECTION

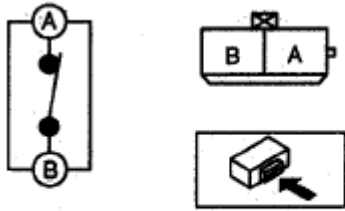
1. Inspect for continuity between the buckle switch terminals using a tester.
 - If not as indicated in the table, replace the front buckle.

○—○ : Continuity

Seat belt	Terminal	
	A	B
Fastened		
Unfastened	○—○	

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Fig. 17: Continuity Chart
Courtesy of MAZDA MOTORS CORP.



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Fig. 18: Buckle Switch Circuit
Courtesy of MAZDA MOTORS CORP.