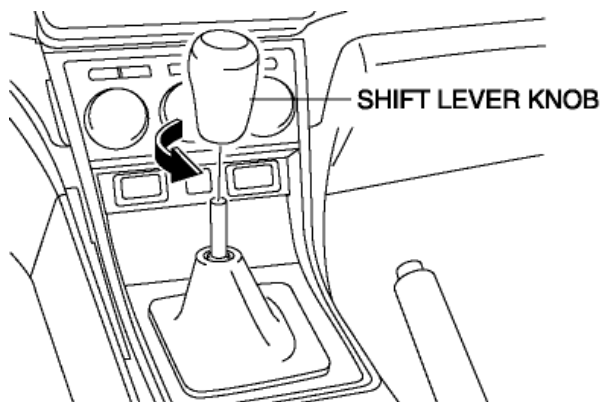


2012 - Mazda6 - Transmission/ Transaxle

MANUAL TRANSAXLE SHIFT MECHANISM REMOVAL/ INSTALLATION

1. Disconnect the negative battery cable. (See [BATTERY REMOVAL/ INSTALLATION \[MZR 2.5\]](#).)
2. Discharge the refrigerant. (See [REFRIGERANT CHARGING](#).)
3. Drain the engine coolant. (See [ENGINE COOLANT REPLACEMENT \[MZR 2.5\]](#).)
4. Remove the following parts.
 - a. Glove compartment (See [GLOVE COMPARTMENT REMOVAL/ INSTALLATION](#).)
 - b. Dashboard under cover (See [DASHBOARD UNDER COVER REMOVAL/ INSTALLATION](#).)
 - c. Front scuff plates (See [FRONT SCUFF PLATE REMOVAL/ INSTALLATION](#).)
 - d. Front side trims (See [FRONT SIDE TRIM REMOVAL/ INSTALLATION](#).)
 - e. Upper panel (See [UPPER PANEL REMOVAL/ INSTALLATION](#).)
 - f. Decoration panel (See [DECORATION PANEL REMOVAL/ INSTALLATION](#).)
 - g. Shift lever knob



- h. Shift panel (See [SHIFT PANEL REMOVAL/ INSTALLATION](#).)
- i. Center panel lower (See [CENTER PANEL LOWER REMOVAL/ INSTALLATION](#).)
- j. Climate control unit (See [CLIMATE CONTROL UNIT REMOVAL/ INSTALLATION \[FULL-AUTO AIR CONDITIONER\]](#).) (See [CLIMATE CONTROL UNIT REMOVAL/ INSTALLATION \[MANUAL AIR CONDITIONER\]](#).)
- k. Rear console (See [REAR CONSOLE REMOVAL/ INSTALLATION](#).)
- l. Hood release lever (See [HOOD LATCH AND RELEASE LEVER REMOVAL/ INSTALLATION](#).)
- m. Lower panel (See [LOWER PANEL REMOVAL/ INSTALLATION](#).)
- n. Driver-side air bag module (See [DRIVER-SIDE AIR BAG MODULE REMOVAL/ INSTALLATION](#).)
- o. Steering wheel (See [STEERING WHEEL AND COLUMN REMOVAL/ INSTALLATION \[WITHOUT ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM\]](#).) (See [STEERING WHEEL AND COLUMN REMOVAL/ INSTALLATION \[WITH ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM\]](#).)
- p. Column cover (See [COLUMN COVER REMOVAL/ INSTALLATION](#).)
- q. Combination switch (See [COMBINATION SWITCH REMOVAL/ INSTALLATION](#).)
- r. Meter hood (See [METER HOOD REMOVAL/ INSTALLATION](#).)
- s. Instrument cluster (See [INSTRUMENT CLUSTER REMOVAL/ INSTALLATION](#).)
- t. Center panel upper (See [CENTER PANEL UPPER REMOVAL/ INSTALLATION](#).)
- u. Audio unit (See [AUDIO UNIT REMOVAL/ INSTALLATION](#).)
- v. Steering shaft cover (See [STEERING WHEEL AND COLUMN REMOVAL/ INSTALLATION \[WITHOUT ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM\]](#).) (See [STEERING WHEEL AND COLUMN REMOVAL/ INSTALLATION \[WITH](#)

ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)

w. Steering shaft (See **STEERING WHEEL AND COLUMN REMOVAL/ INSTALLATION [WITHOUT ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)**(See **STEERING WHEEL AND COLUMN REMOVAL/ INSTALLATION [WITH ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)**

x. Side panel (See **SIDE PANEL REMOVAL/ INSTALLATION .)**

y. Passenger-side air bag module (See **PASSENGER-SIDE AIR BAG MODULE REMOVAL/ INSTALLATION .)**

z. A-pillar trims (See **A-PILLAR TRIM REMOVAL/ INSTALLATION .)**

aa. Cowl grille (See **COWL GRILLE REMOVAL/ INSTALLATION .)**

ab. Dashboard (See **DASHBOARD REMOVAL/ INSTALLATION .)**

ac. A/C unit (See **A/ C UNIT REMOVAL/ INSTALLATION .)**

ad. SAS control module (See **SAS CONTROL MODULE REMOVAL/ INSTALLATION .)**

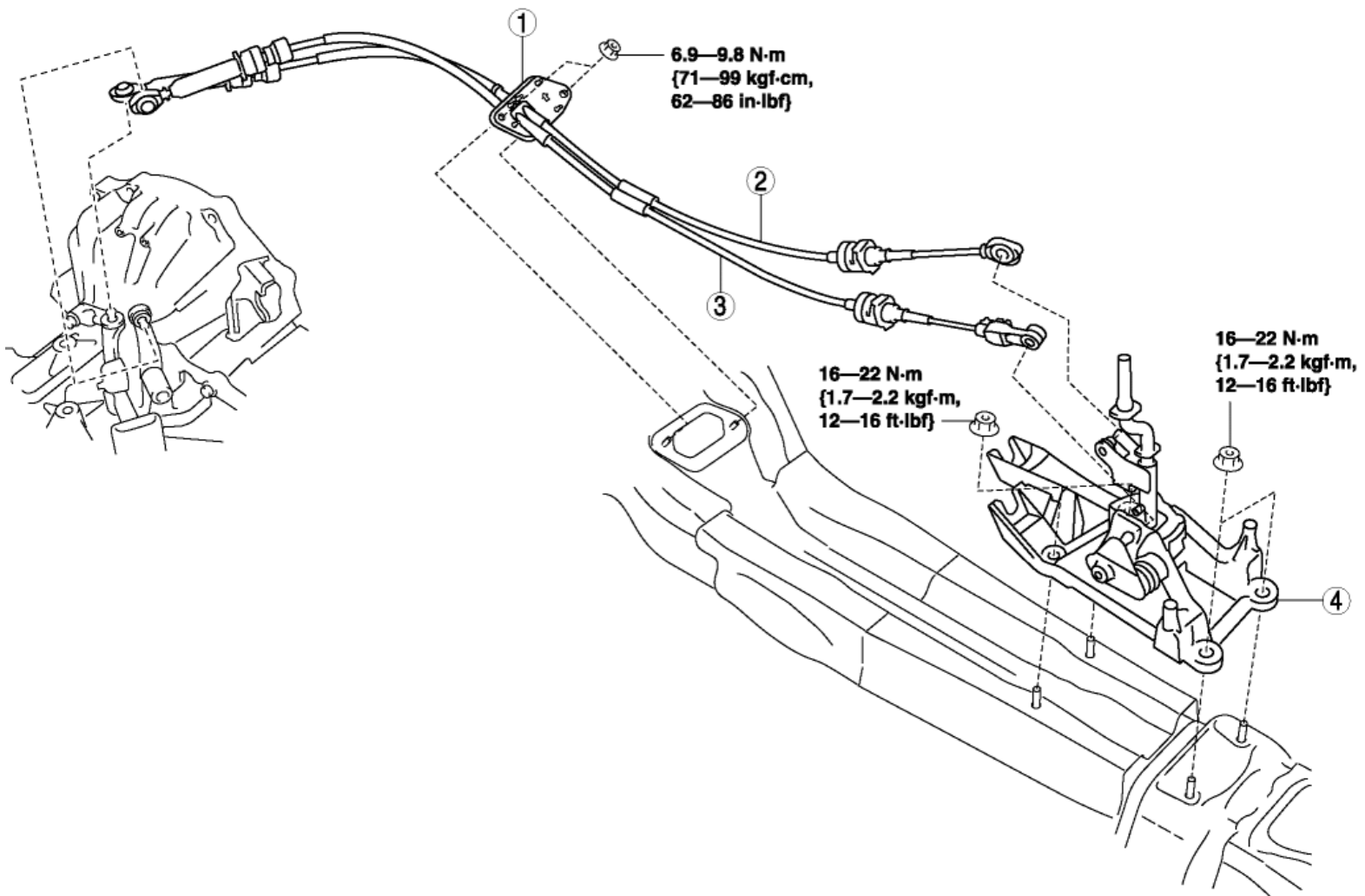
5. Remove in the order indicated in the table.

6. Install in the reverse order of removal.

7. After installation, verify that the shift lever can be shifted smoothly into each position.

8. Perform the refrigerant system performance test. (See **REFRIGERANT SYSTEM PERFORMANCE TEST .)**

9. Inspect for engine coolant leakage. (See **ENGINE COOLANT LEAKAGE INSPECTION [MZR 2.5] .)**



1 Seal plate

2 Shift cable

(See **Shift Cable and Selector Cable Removal Note .)**

3 Selector cable

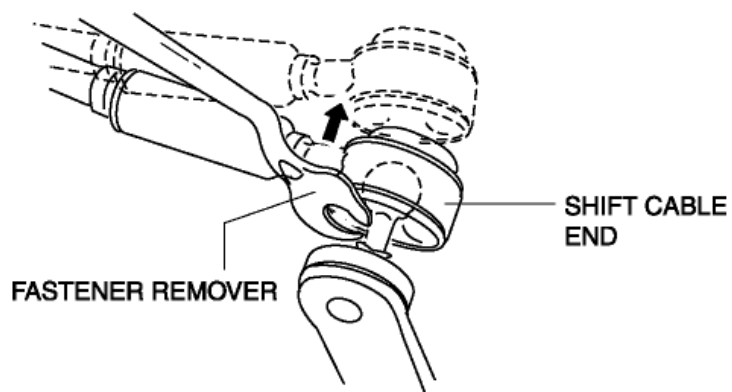
(See [Shift Cable and Selector Cable Removal Note.](#))

(See [Selector Cable Installation Note.](#))

4 Shift lever component

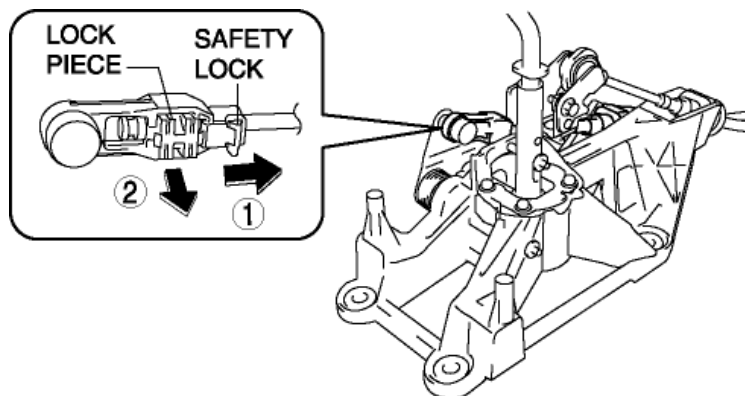
Shift Cable and Selector Cable Removal Note

1. Remove the both shift cable end and selector cable end using a fastener remover.

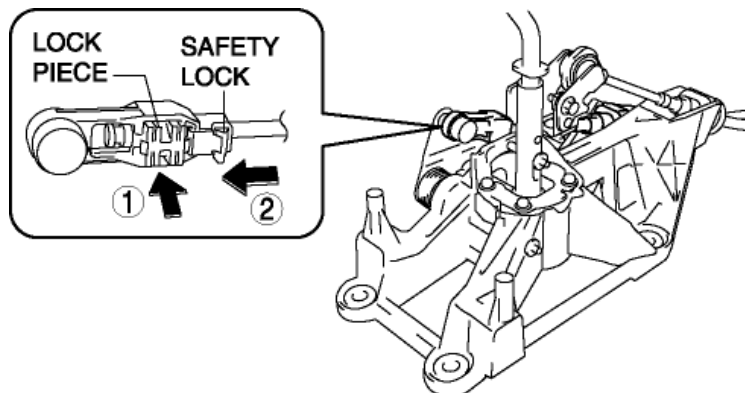


Selector Cable Installation Note

1. Make sure that the shift lever (transaxle side) is in neutral.
2. Unlock the lock piece of the selector cable in the order shown in the figure.



3. Shift the shift lever to neutral.
4. Lock the lock piece of the selector cable in the figure.



5. Shift the shift lever from neutral to other position, and make sure that there are no other components in that area to interfere with the lever.

[< Previous](#) [Next >](#)

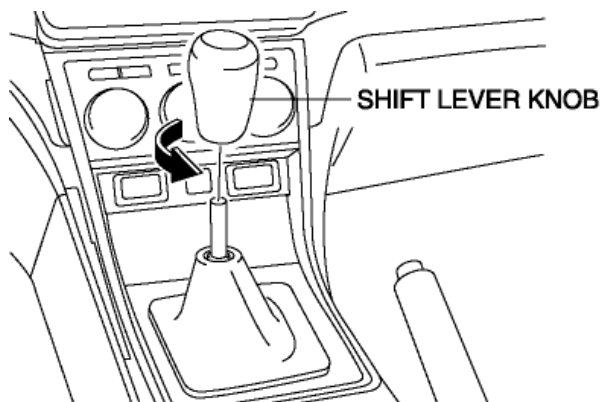
© 2012 Mazda North American Operations, U.S.A.

[Back to Top](#)

2012 - Mazda6 - Transmission/ Transaxle

MANUAL TRANSAXLE SHIFT MECHANISM REMOVAL/ INSTALLATION

1. Disconnect the negative battery cable. (See [BATTERY REMOVAL/ INSTALLATION \[MZR 2.5\]](#).)
2. Discharge the refrigerant. (See [REFRIGERANT CHARGING](#).)
3. Drain the engine coolant. (See [ENGINE COOLANT REPLACEMENT \[MZR 2.5\]](#).)
4. Remove the following parts.
 - a. Glove compartment (See [GLOVE COMPARTMENT REMOVAL/ INSTALLATION](#).)
 - b. Dashboard under cover (See [DASHBOARD UNDER COVER REMOVAL/ INSTALLATION](#).)
 - c. Front scuff plates (See [FRONT SCUFF PLATE REMOVAL/ INSTALLATION](#).)
 - d. Front side trims (See [FRONT SIDE TRIM REMOVAL/ INSTALLATION](#).)
 - e. Upper panel (See [UPPER PANEL REMOVAL/ INSTALLATION](#).)
 - f. Decoration panel (See [DECORATION PANEL REMOVAL/ INSTALLATION](#).)
 - g. Shift lever knob



- h. Shift panel (See [SHIFT PANEL REMOVAL/ INSTALLATION](#).)
- i. Center panel lower (See [CENTER PANEL LOWER REMOVAL/ INSTALLATION](#).)
- j. Climate control unit (See [CLIMATE CONTROL UNIT REMOVAL/ INSTALLATION \[FULL-AUTO AIR CONDITIONER\]](#).) (See [CLIMATE CONTROL UNIT REMOVAL/ INSTALLATION \[MANUAL AIR CONDITIONER\]](#).)
- k. Rear console (See [REAR CONSOLE REMOVAL/ INSTALLATION](#).)
- l. Hood release lever (See [HOOD LATCH AND RELEASE LEVER REMOVAL/ INSTALLATION](#).)
- m. Lower panel (See [LOWER PANEL REMOVAL/ INSTALLATION](#).)
- n. Driver-side air bag module (See [DRIVER-SIDE AIR BAG MODULE REMOVAL/ INSTALLATION](#).)
- o. Steering wheel (See [STEERING WHEEL AND COLUMN REMOVAL/ INSTALLATION \[WITHOUT ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM\]](#).) (See [STEERING WHEEL AND COLUMN REMOVAL/ INSTALLATION \[WITH ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM\]](#).)
- p. Column cover (See [COLUMN COVER REMOVAL/ INSTALLATION](#).)
- q. Combination switch (See [COMBINATION SWITCH REMOVAL/ INSTALLATION](#).)
- r. Meter hood (See [METER HOOD REMOVAL/ INSTALLATION](#).)
- s. Instrument cluster (See [INSTRUMENT CLUSTER REMOVAL/ INSTALLATION](#).)
- t. Center panel upper (See [CENTER PANEL UPPER REMOVAL/ INSTALLATION](#).)
- u. Audio unit (See [AUDIO UNIT REMOVAL/ INSTALLATION](#).)
- v. Steering shaft cover (See [STEERING WHEEL AND COLUMN REMOVAL/ INSTALLATION \[WITHOUT ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM\]](#).) (See [STEERING WHEEL AND COLUMN REMOVAL/ INSTALLATION \[WITH](#)

ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)

w. Steering shaft (See **STEERING WHEEL AND COLUMN REMOVAL/ INSTALLATION [WITHOUT ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)**(See **STEERING WHEEL AND COLUMN REMOVAL/ INSTALLATION [WITH ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)**

x. Side panel (See **SIDE PANEL REMOVAL/ INSTALLATION .)**

y. Passenger-side air bag module (See **PASSENGER-SIDE AIR BAG MODULE REMOVAL/ INSTALLATION .)**

z. A-pillar trims (See **A-PILLAR TRIM REMOVAL/ INSTALLATION .)**

aa. Cowl grille (See **COWL GRILLE REMOVAL/ INSTALLATION .)**

ab. Dashboard (See **DASHBOARD REMOVAL/ INSTALLATION .)**

ac. A/C unit (See **A/ C UNIT REMOVAL/ INSTALLATION .)**

ad. SAS control module (See **SAS CONTROL MODULE REMOVAL/ INSTALLATION .)**

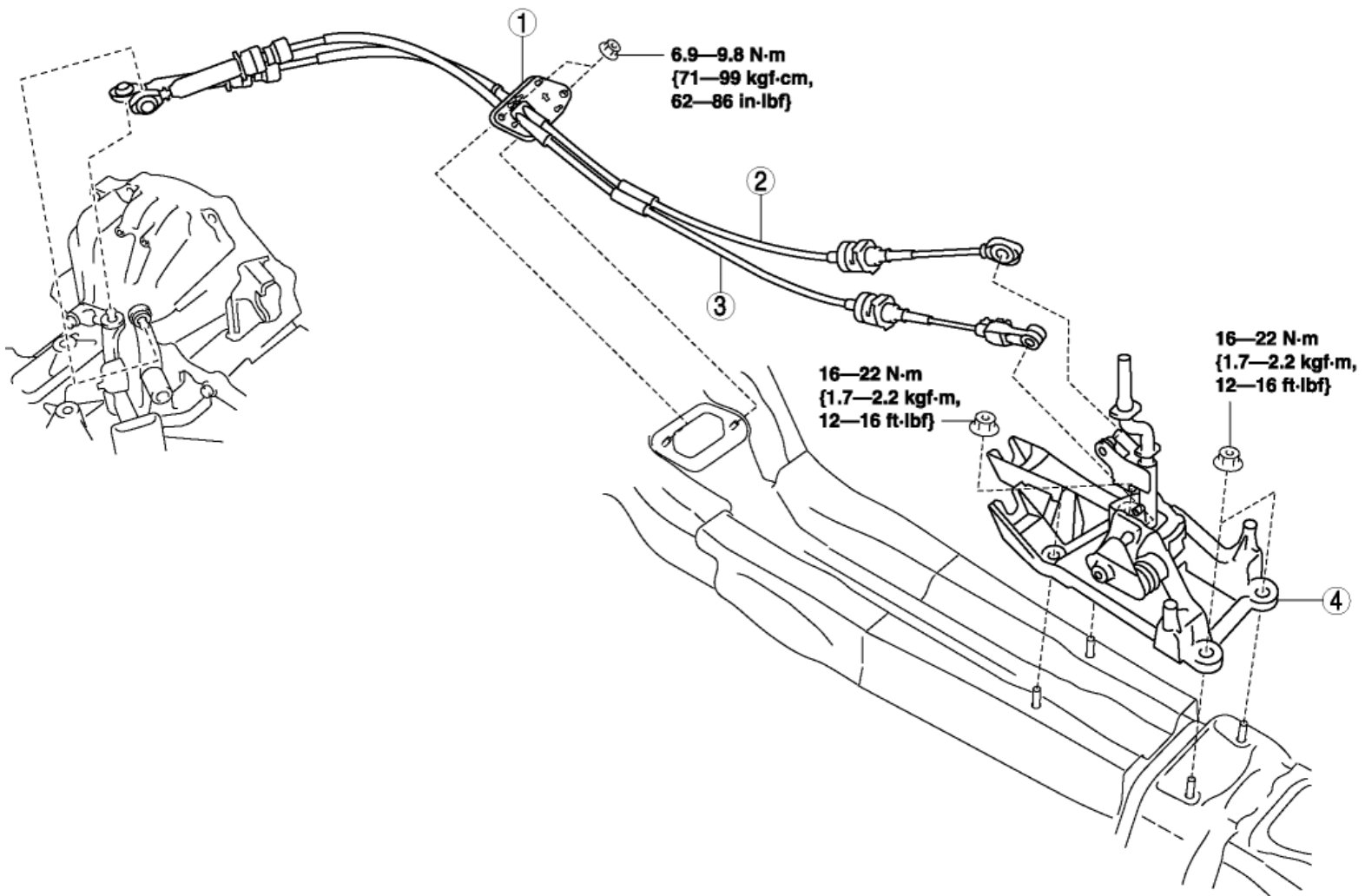
5. Remove in the order indicated in the table.

6. Install in the reverse order of removal.

7. After installation, verify that the shift lever can be shifted smoothly into each position.

8. Perform the refrigerant system performance test. (See **REFRIGERANT SYSTEM PERFORMANCE TEST .)**

9. Inspect for engine coolant leakage. (See **ENGINE COOLANT LEAKAGE INSPECTION [MZR 2.5] .)**



1 Seal plate

2 Shift cable

(See **Shift Cable and Selector Cable Removal Note .)**

3 Selector cable

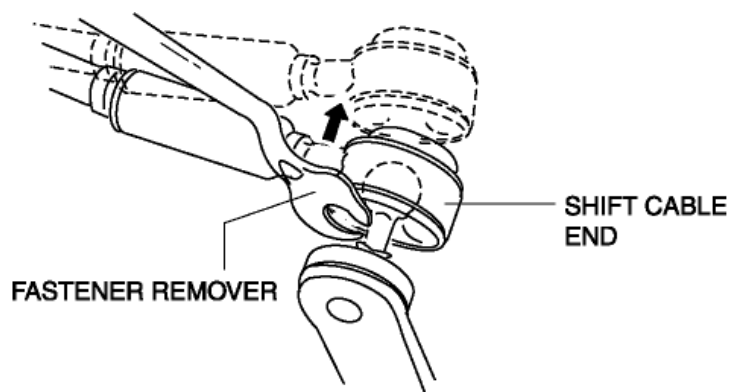
(See [Shift Cable and Selector Cable Removal Note.](#))

(See [Selector Cable Installation Note.](#))

4 Shift lever component

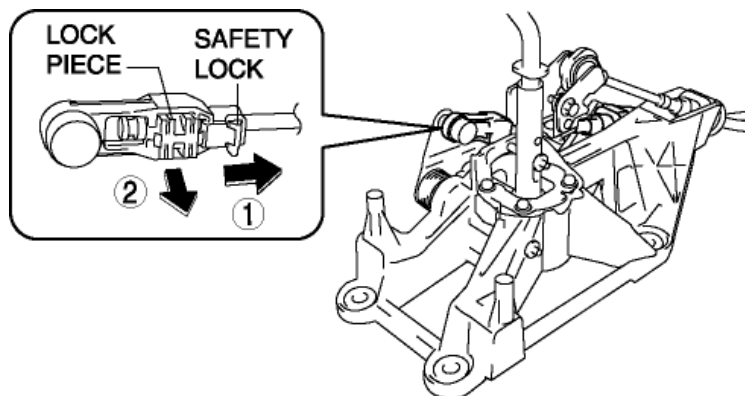
Shift Cable and Selector Cable Removal Note

1. Remove the both shift cable end and selector cable end using a fastener remover.

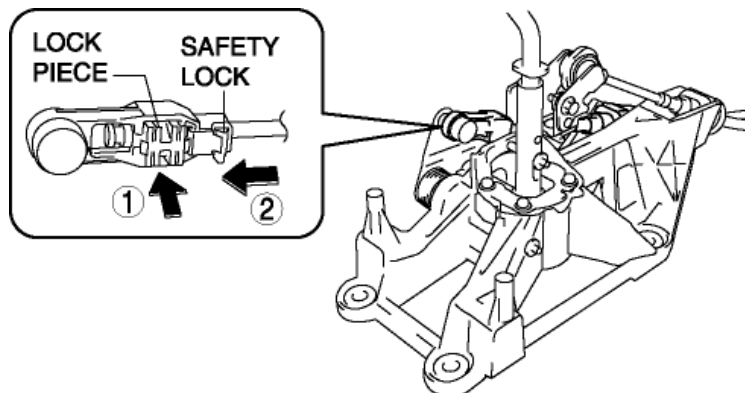


Selector Cable Installation Note

1. Make sure that the shift lever (transaxle side) is in neutral.
2. Unlock the lock piece of the selector cable in the order shown in the figure.



3. Shift the shift lever to neutral.
4. Lock the lock piece of the selector cable in the figure.



5. Shift the shift lever from neutral to other position, and make sure that there are no other components in that area to interfere with the lever.

[< Previous](#) [Next >](#)

© 2012 Mazda North American Operations, U.S.A.

[Back to Top](#)