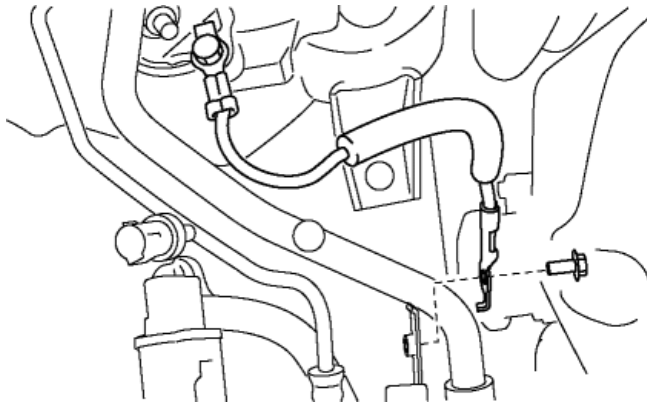


2012 - Mazda6 - HVAC

REFRIGERANT LINE REMOVAL/ INSTALLATION

MZR 2.5

1. Disconnect the negative battery cable.
2. Remove the engine coolant tank. ((See [ENGINE COOLANT LEAKAGE INSPECTION \[MZR 2.5\]](#).) (See [ENGINE COOLANT LEAKAGE INSPECTION \[MZI 3.7 V6\]](#).)
3. Discharge the refrigerant. (See [REFRIGERANT CHARGING](#).)
4. Disconnect the refrigerant pressure sensor connector.
5. Remove the No.3 engine mount earth.

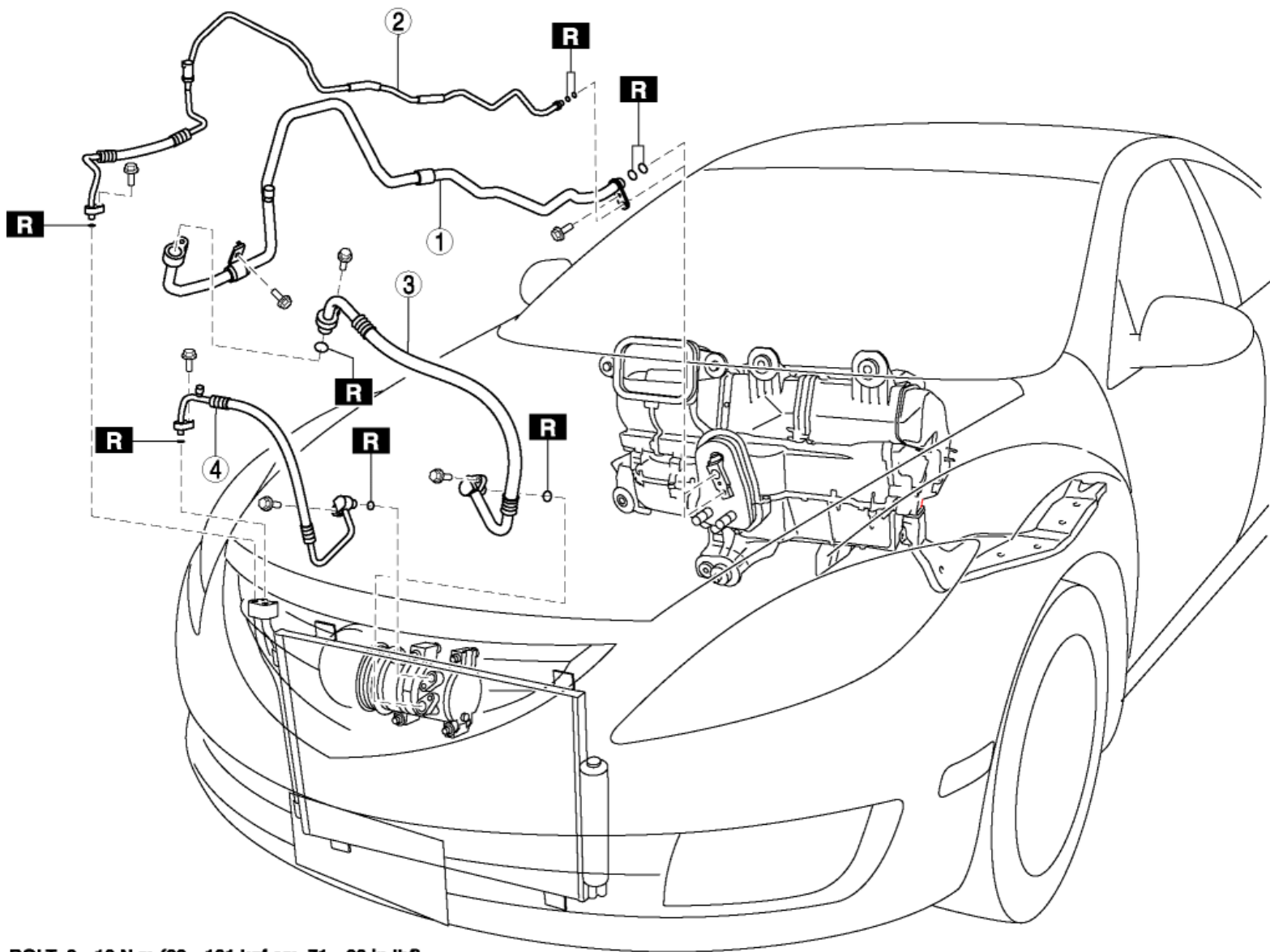


6. Do not allow remaining compressor oil in the piping and connecting parts to spill, and remove in the order indicated in the table.

CAUTION:

- If moisture or foreign material enters the refrigeration cycle, cooling ability will be lowered and abnormal noise or other malfunction could occur. Always plug open fittings immediately after removing any refrigeration cycle parts.

7. Install in the reverse order of removal.
8. Perform the refrigerant system performance test. (See [REFRIGERANT SYSTEM PERFORMANCE TEST](#).)



BOLT: 8—10 N·m {82—101 kgf·cm, 71—88 in·lbf}

1 Cooler pipe

(See [Refrigerant Line Removal Note.](#))

(See [Refrigerant Line Installation Note.](#))

2 Cooler hose

(See [Refrigerant Line Removal Note.](#))

(See [Refrigerant Line Installation Note.](#))

3 Cooler hose (LO)

(See [Refrigerant Line Removal Note.](#))

(See [Refrigerant Line Installation Note.](#))

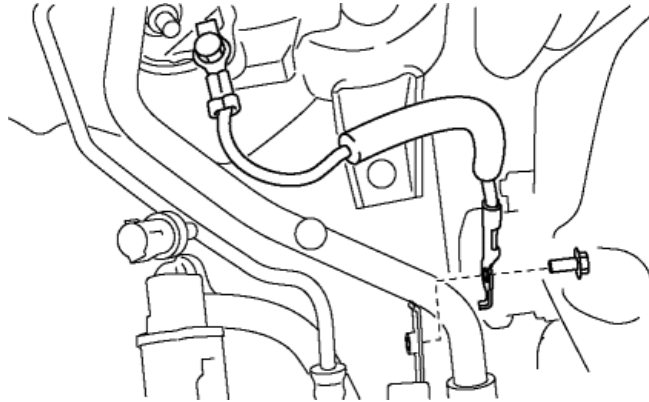
4 Cooler hose (HI)

(See [Refrigerant Line Removal Note.](#))

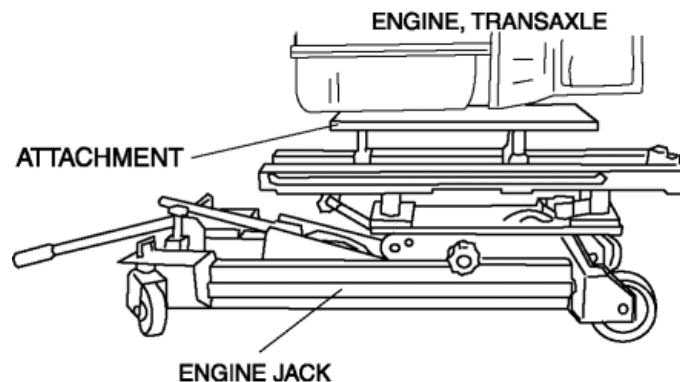
(See [Refrigerant Line Installation Note.](#))

MZI 3.7 V6

1. Remove the battery and battery tray. (See [BATTERY REMOVAL/ INSTALLATION \[MZI 3.7 V6\].](#))
2. Remove the engine cover (See [ENGINE COVER REMOVAL/ INSTALLATION \[MZI 3.7 V6\].](#))
3. Remove the coolant reserve tank. (See [COOLANT RESERVE TANK REMOVAL/ INSTALLATION \[MZI 3.7 V6\].](#))
4. Discharge the refrigerant. (See [REFRIGERANT CHARGING.](#))
5. Disconnect the refrigerant pressure sensor connector.
6. Remove the No.3 engine mount ground.



7. Remove the following parts.
 - a. Windshield wiper arm and blade (See [WINDSHIELD WIPER ARM AND BLADE REMOVAL/ INSTALLATION.](#))
 - b. Cowl grille (See [COWL GRILLE REMOVAL/ INSTALLATION.](#))
 - c. Windshield wiper motor (See [WINDSHIELD WIPER MOTOR REMOVAL/ INSTALLATION.](#))
 - d. Cowl panel (See [COWL PANEL REMOVAL/ INSTALLATION.](#))
 - e. DSC HU/CM (with DSC) (See [DSC HU/ CM REMOVAL/ INSTALLATION.](#))
 - f. Front pipe (See [EXHAUST SYSTEM REMOVAL/ INSTALLATION \[MZI 3.7 V6\].](#))
 - g. Air cleaner component (See [INTAKE-AIR SYSTEM REMOVAL/ INSTALLATION \[MZI 3.7 V6\].](#))
 - h. Aerodynamic under cover No.1 and No.2. (See [AERODYNAMIC UNDER COVER NO.1 REMOVAL/ INSTALLATION.](#)) (See [AERODYNAMIC UNDER COVER NO.2 REMOVAL/ INSTALLATION.](#))
8. Disconnect the engine mount No.1. (See [ENGINE REMOVAL/ INSTALLATION \[MZI 3.7 V6\].](#))
9. Sustain the engine and transaxle component with the engine jack.



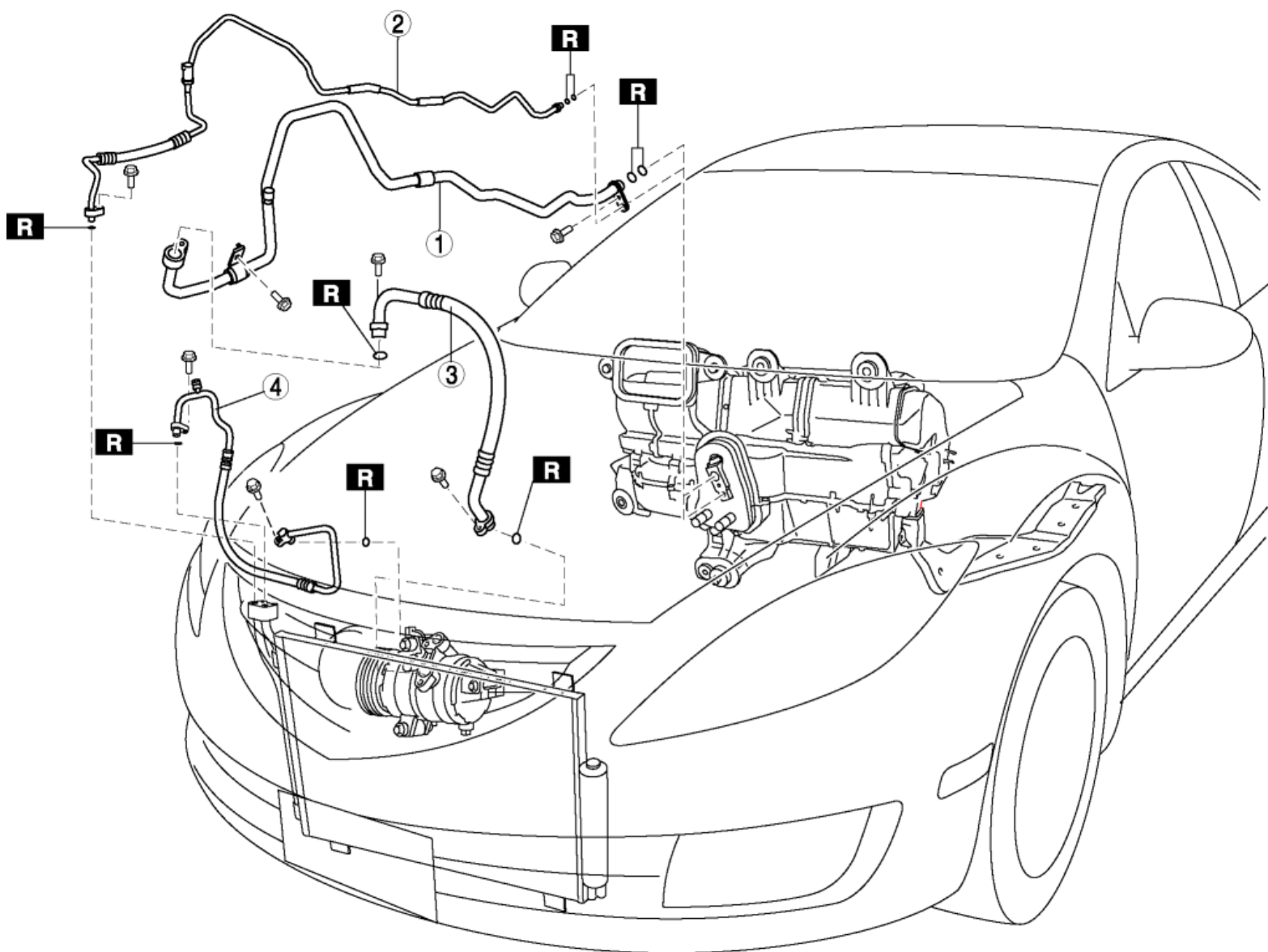
10. Disconnect the engine mount No.3 and No.4. (See [ENGINE REMOVAL/ INSTALLATION \[MZI 3.7 V6\].](#))
11. Move the engine and transaxle component slightly direction to left, and enlarge the space for remove the refrigerant line.
12. Do not allow remaining compressor oil in the piping and connecting parts to spill, and remove in the order indicated in the table.

CAUTION:

If moisture or foreign material enters the refrigeration cycle, cooling ability will be lowered and abnormal noise or other malfunction could occur. Always plug open fittings immediately after removing any refrigeration cycle parts.

13. Install in the reverse order of removal.

14. Perform the refrigerant system performance test. (See [REFRIGERANT SYSTEM PERFORMANCE TEST.](#))



BOLT: 8—10 N·m {82—101 kgf·cm, 71—88 in·lbf}

1 Cooler pipe

(See [Refrigerant Line Removal Note.](#))

(See [Refrigerant Line Installation Note.](#))

2 Cooler hose

(See [Refrigerant Line Removal Note.](#))

(See [Refrigerant Line Installation Note.](#))

3 Cooler hose (LO)

(See [Refrigerant Line Removal Note.](#))

(See [Refrigerant Line Installation Note.](#))

4 Cooler hose (HI)

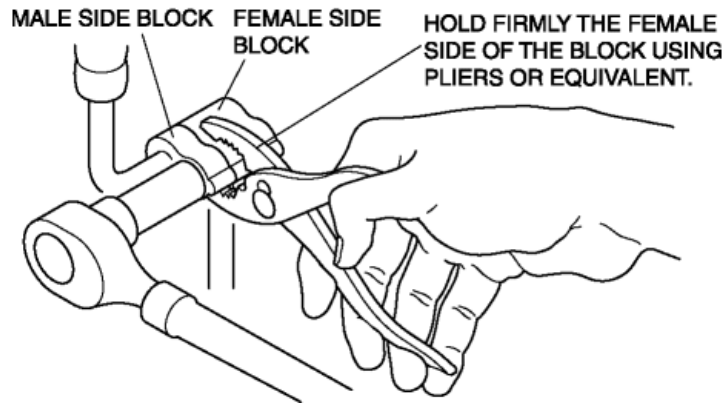
(See [Refrigerant Line Removal Note.](#))

(See [Refrigerant Line Installation Note.](#))

Refrigerant Line Removal Note

Block joint type

1. Disconnect the block joint type pipes by grasping the female side of the block with pliers or similar tool and holding firmly, and then remove the connection bolt.

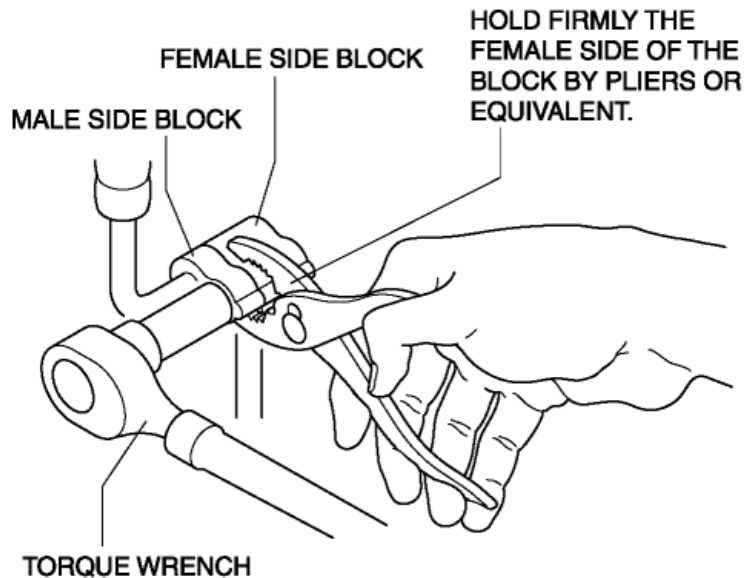


Refrigerant Line Installation Note

1. Apply compressor oil to the O-rings and connect the joints.
2. Tighten the joints.

Block joint type

1. Tighten the bolt of joint by hand.



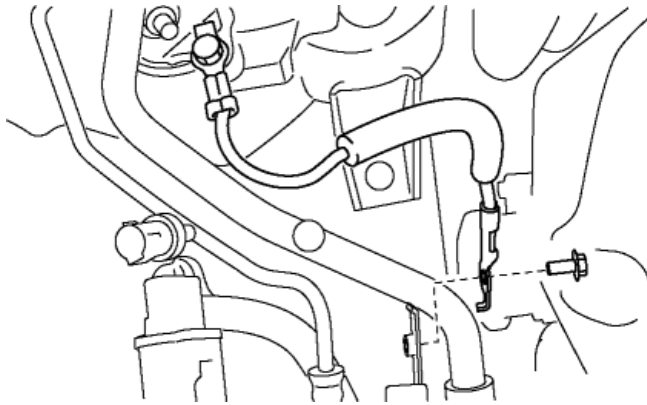
2. Connect the block joint type pipes by grasping the female side of the block with pliers or similar tool and holding firmly, then tighten the connection bolt with a torque wrench.

2012 - Mazda6 - HVAC

REFRIGERANT LINE REMOVAL/ INSTALLATION

MZR 2.5

1. Disconnect the negative battery cable.
2. Remove the engine coolant tank. ((See [ENGINE COOLANT LEAKAGE INSPECTION \[MZR 2.5\]](#).) (See [ENGINE COOLANT LEAKAGE INSPECTION \[MZI 3.7 V6\]](#).)
3. Discharge the refrigerant. (See [REFRIGERANT CHARGING](#).)
4. Disconnect the refrigerant pressure sensor connector.
5. Remove the No.3 engine mount earth.

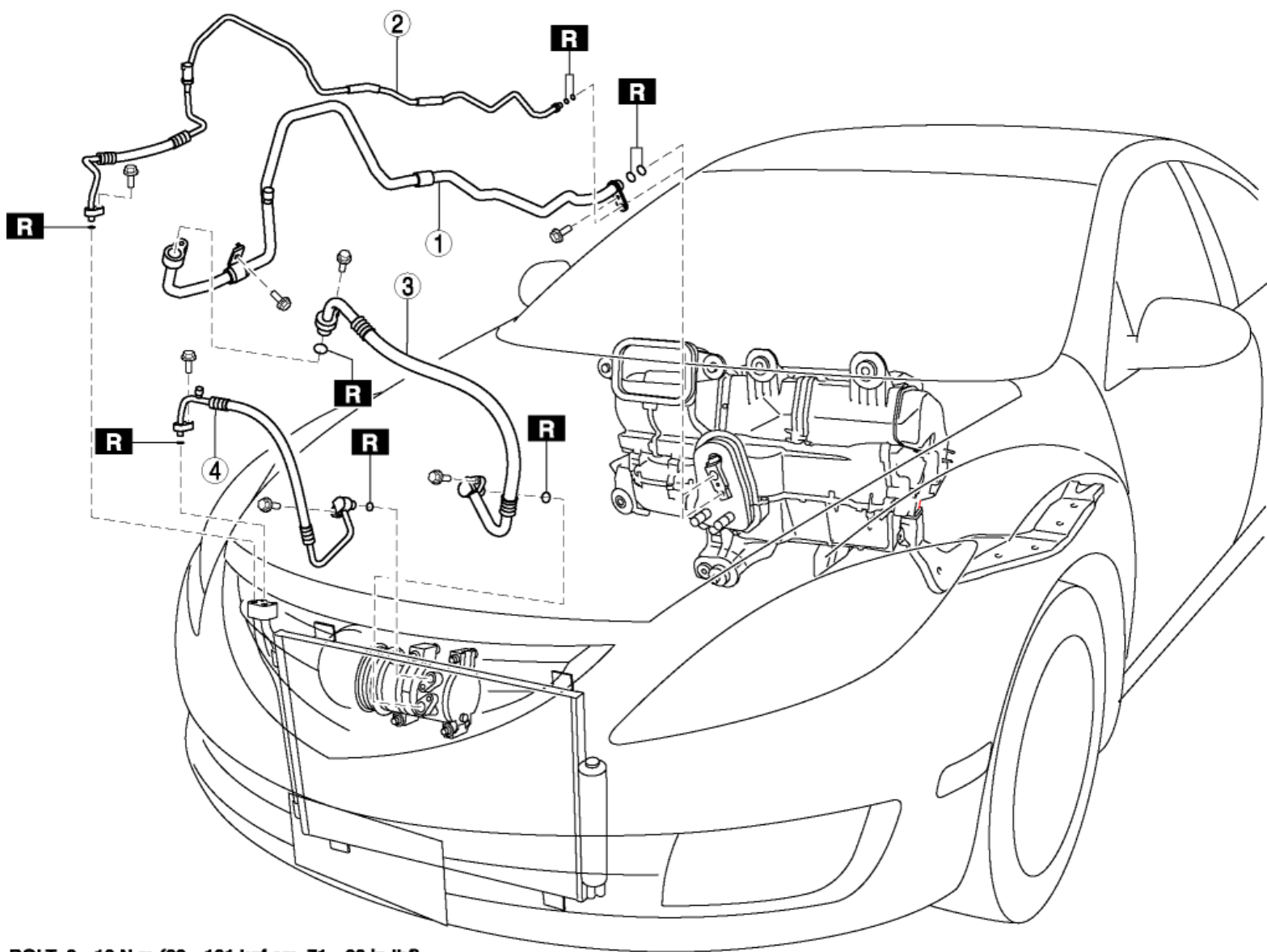


6. Do not allow remaining compressor oil in the piping and connecting parts to spill, and remove in the order indicated in the table.

CAUTION:

- If moisture or foreign material enters the refrigeration cycle, cooling ability will be lowered and abnormal noise or other malfunction could occur. Always plug open fittings immediately after removing any refrigeration cycle parts.

7. Install in the reverse order of removal.
8. Perform the refrigerant system performance test. (See [REFRIGERANT SYSTEM PERFORMANCE TEST](#).)



BOLT: 8—10 N·m {82—101 kgf·cm, 71—88 in·lbf}

1 Cooler pipe

(See [Refrigerant Line Removal Note.](#))

(See [Refrigerant Line Installation Note.](#))

2 Cooler hose

(See [Refrigerant Line Removal Note.](#))

(See [Refrigerant Line Installation Note.](#))

3 Cooler hose (LO)

(See [Refrigerant Line Removal Note.](#))

(See [Refrigerant Line Installation Note.](#))

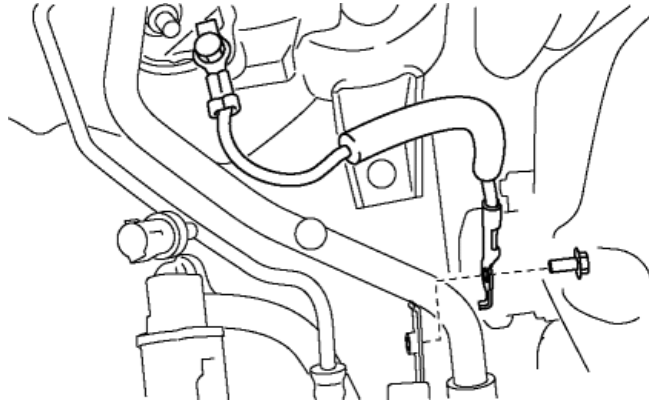
4 Cooler hose (HI)

(See [Refrigerant Line Removal Note.](#))

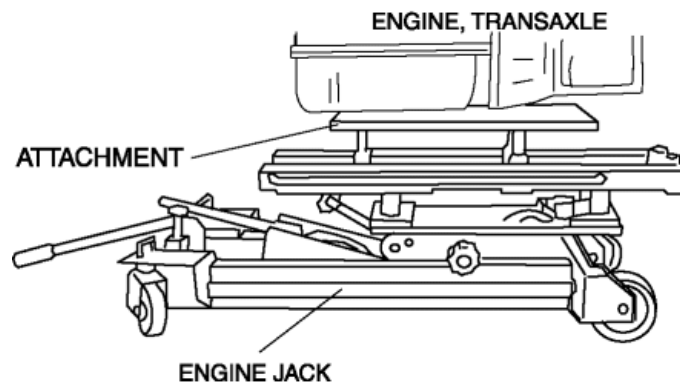
(See [Refrigerant Line Installation Note.](#))

MZI 3.7 V6

1. Remove the battery and battery tray. (See [BATTERY REMOVAL/ INSTALLATION \[MZI 3.7 V6\].](#))
2. Remove the engine cover (See [ENGINE COVER REMOVAL/ INSTALLATION \[MZI 3.7 V6\].](#))
3. Remove the coolant reserve tank. (See [COOLANT RESERVE TANK REMOVAL/ INSTALLATION \[MZI 3.7 V6\].](#))
4. Discharge the refrigerant. (See [REFRIGERANT CHARGING.](#))
5. Disconnect the refrigerant pressure sensor connector.
6. Remove the No.3 engine mount ground.



7. Remove the following parts.
 - a. Windshield wiper arm and blade (See [WINDSHIELD WIPER ARM AND BLADE REMOVAL/ INSTALLATION.](#))
 - b. Cowl grille (See [COWL GRILLE REMOVAL/ INSTALLATION.](#))
 - c. Windshield wiper motor (See [WINDSHIELD WIPER MOTOR REMOVAL/ INSTALLATION.](#))
 - d. Cowl panel (See [COWL PANEL REMOVAL/ INSTALLATION.](#))
 - e. DSC HU/CM (with DSC) (See [DSC HU/ CM REMOVAL/ INSTALLATION.](#))
 - f. Front pipe (See [EXHAUST SYSTEM REMOVAL/ INSTALLATION \[MZI 3.7 V6\].](#))
 - g. Air cleaner component (See [INTAKE-AIR SYSTEM REMOVAL/ INSTALLATION \[MZI 3.7 V6\].](#))
 - h. Aerodynamic under cover No.1 and No.2. (See [AERODYNAMIC UNDER COVER NO.1 REMOVAL/ INSTALLATION.](#)) (See [AERODYNAMIC UNDER COVER NO.2 REMOVAL/ INSTALLATION.](#))
8. Disconnect the engine mount No.1. (See [ENGINE REMOVAL/ INSTALLATION \[MZI 3.7 V6\].](#))
9. Sustain the engine and transaxle component with the engine jack.



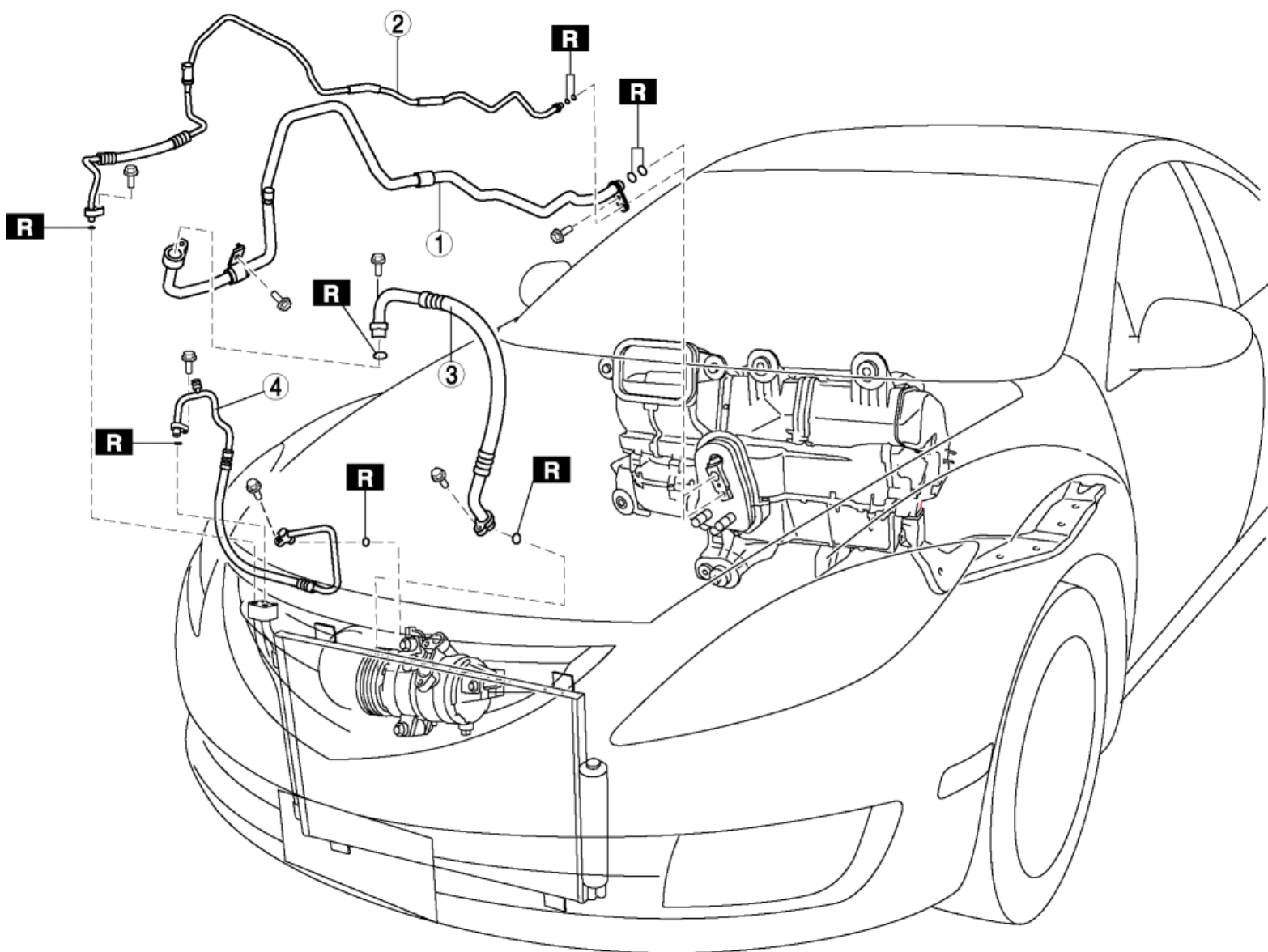
10. Disconnect the engine mount No.3 and No.4. (See [ENGINE REMOVAL/ INSTALLATION \[MZI 3.7 V6\].](#))
11. Move the engine and transaxle component slightly direction to left, and enlarge the space for remove the refrigerant line.
12. Do not allow remaining compressor oil in the piping and connecting parts to spill, and remove in the order indicated in the table.

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BOLT: 8—10 N·m {82—101 kgf·cm, 71—88 in·lbf}

1 Cooler pipe

(See [Refrigerant Line Removal Note.](#))

(See [Refrigerant Line Installation Note.](#))

2 Cooler hose

(See [Refrigerant Line Removal Note.](#))

(See [Refrigerant Line Installation Note.](#))

3 Cooler hose (LO)

(See [Refrigerant Line Removal Note.](#))

(See [Refrigerant Line Installation Note.](#))

4 Cooler hose (HI)

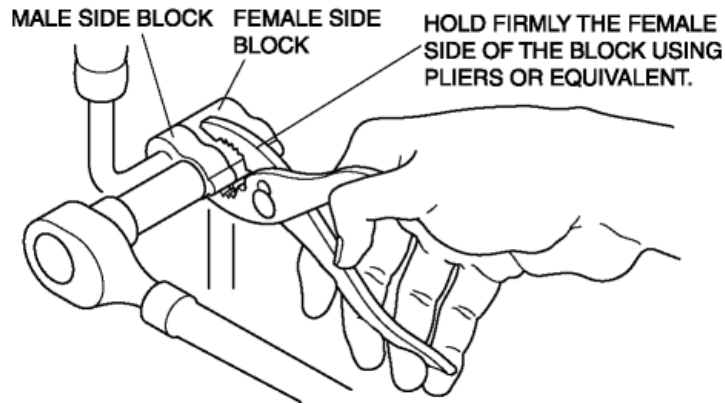
(See [Refrigerant Line Removal Note.](#))

(See [Refrigerant Line Installation Note.](#))

Refrigerant Line Removal Note

Block joint type

1. Disconnect the block joint type pipes by grasping the female side of the block with pliers or similar tool and holding firmly, and then remove the connection bolt.

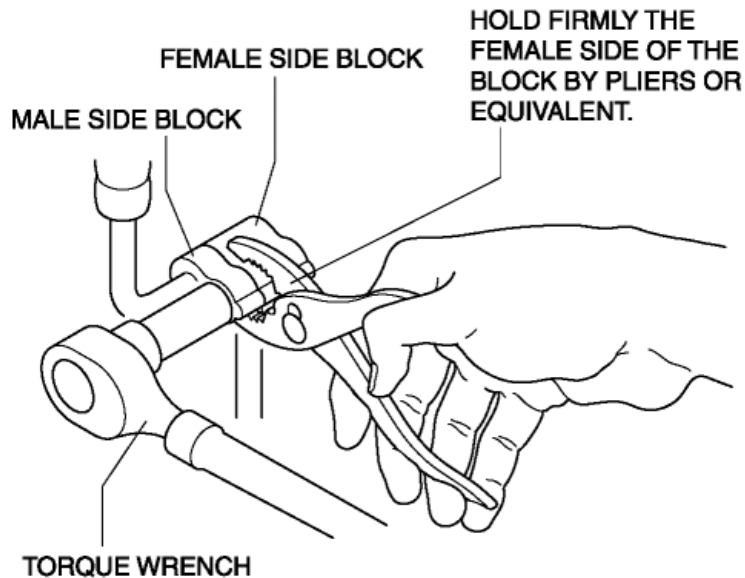


Refrigerant Line Installation Note

1. Apply compressor oil to the O-rings and connect the joints.
2. Tighten the joints.

Block joint type

1. Tighten the bolt of joint by hand.



2. Connect the block joint type pipes by grasping the female side of the block with pliers or similar tool and holding firmly, then tighten the connection bolt with a torque wrench.

