

2012 - Mazda6 - Transmission/ Transaxle

OIL COOLER REMOVAL/ INSTALLATION [FS5A-EL]

WARNING:

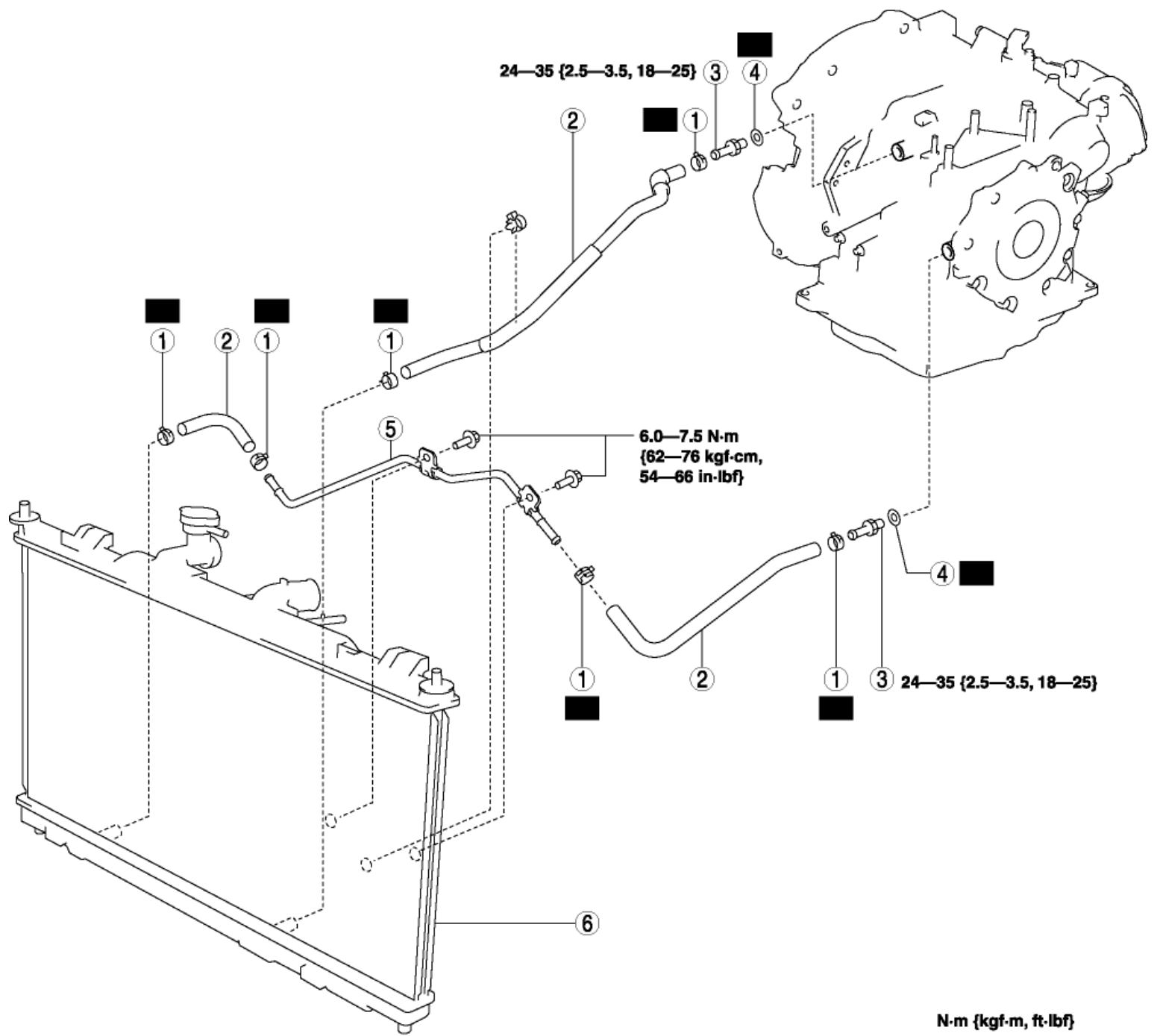
- A hot transaxle and ATF can cause severe burns. Turn off the engine and wait until they are cool.
- Using compressed air can cause dirt and other particles to fly out, causing injury to the eyes. Wear protective eyeglasses whenever using compressed air.

NOTE:

- After removing the oil cooler, check for dirt or foreign objects mixed into the ATF and flush the oil cooler if necessary.

1. Disconnect the negative battery cable.
2. Remove the air cleaner component. (See [INTAKE-AIR SYSTEM REMOVAL/ INSTALLATION \[MZR 2.5\]](#).)
3. Remove the aerodynamic under cover No.1. (See [AERODYNAMIC UNDER COVER NO.1 REMOVAL/ INSTALLATION](#).)
4. Remove the aerodynamic under cover No.2. (See [AERODYNAMIC UNDER COVER NO.2 REMOVAL/ INSTALLATION](#).)
5. Drain the ATF into a separate suitable container. (See [AUTOMATIC TRANSAXLE FLUID \(ATF\) REPLACEMENT \[FS5A-EL\]](#).)
6. Drain the engine coolant. (See [ENGINE COOLANT REPLACEMENT \[MZR 2.5\]](#).)
7. Remove in the order indicated in the table.
8. Install in the reverse order of removal
9. Add engine coolant. (See [ENGINE COOLANT REPLACEMENT \[MZR 2.5\]](#).)
10. Add ATF. (See [AUTOMATIC TRANSAXLE FLUID \(ATF\) REPLACEMENT \[FS5A-EL\]](#).)
11. Perform the "Mechanical System Test". (See [MECHANICAL SYSTEM TEST \[FS5A-EL\]](#).)

Type A

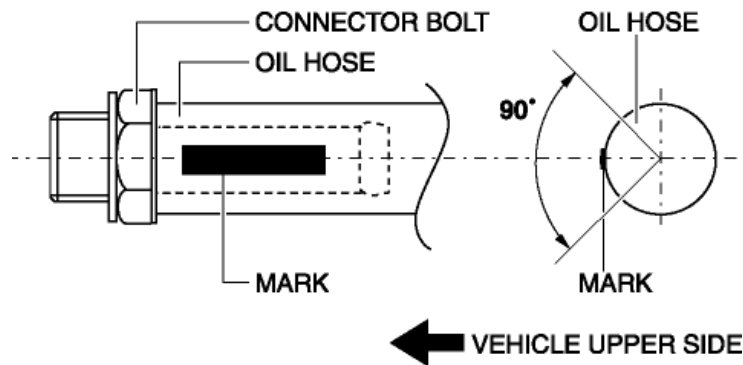


1	Hose clamp
2	Oil hose (See Oil Hose Installation Note.)
3	Connector bolt
4	Packing
5	Oil pipe component
6	Radiator (in tank oil cooler)

Oil Hose Installation Note

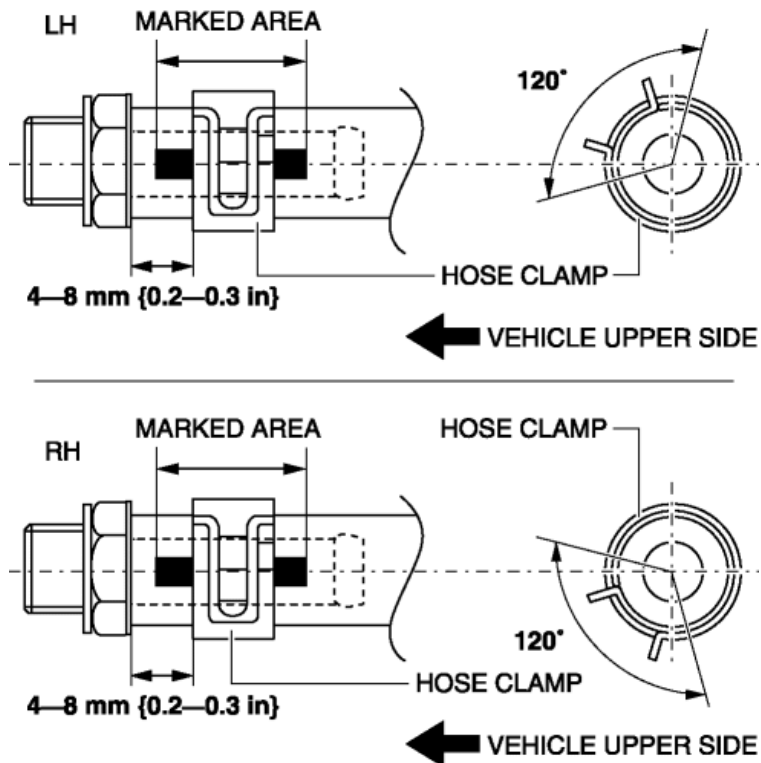
Connector bolt side

1. Install the oil hose to the position shown in the figure.



- Verify that the installation angle of the oil hose is within the range shown in the figure.

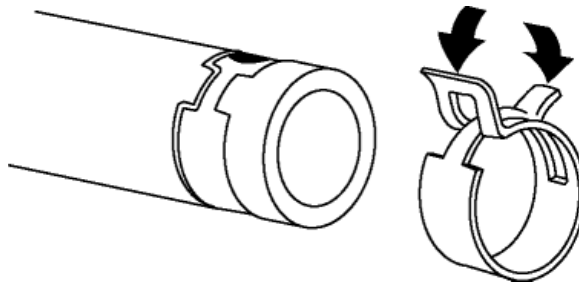
2. Install the hose clamp to the position shown in the figure.



- Verify that the hose clamp is within the marked area of the oil hose.
- Verify that the installation angle of the hose clamp is within the range shown in the figure.

NOTE:

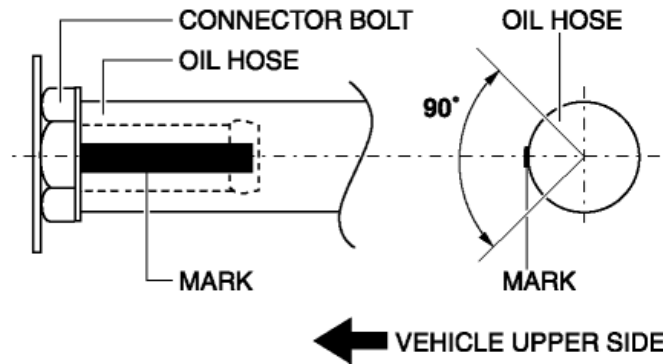
- If the oil hose is to be re-used, install the hose clamp to the impression in the hose left by the previous installation. After installation, apply force to the hose clamp in the direction of the arrows to engage the hose clamp securely.



3. Verify that the hose clamp does not interfere with surrounding the accessories.

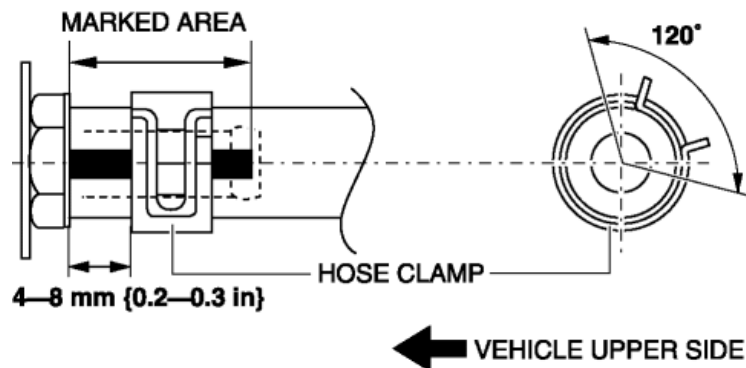
Radiator side

1. Install the oil hose to the position shown in the figure.



- Verify that the installation angle of the oil hose is within the range shown in the figure.

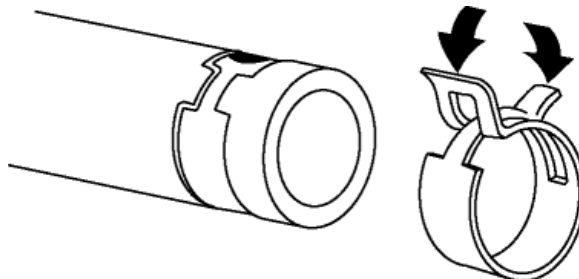
2. Install the hose clamp to the position shown in the figure.



- Verify that the hose clamp is within the marked area of the oil hose.
- Verify that the installation angle of the hose clamp is within the range shown in the figure.

NOTE:

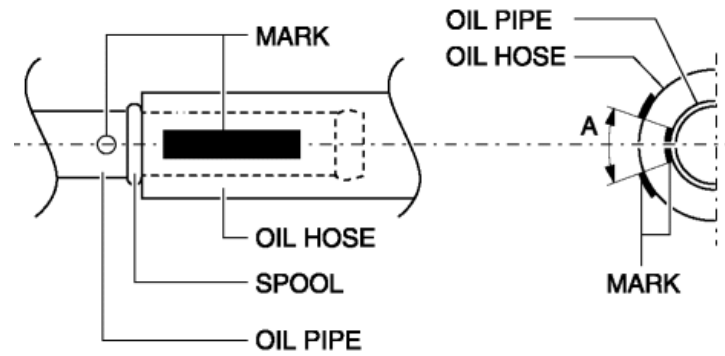
- If the oil hose is to be re-used, install the hose clamp to the impression in the hose left by the previous installation. After installation, apply force to the hose clamp in the direction of the arrows to engage the hose clamp securely.



3. Verify that the hose clamp does not interfere with surrounding the accessories.

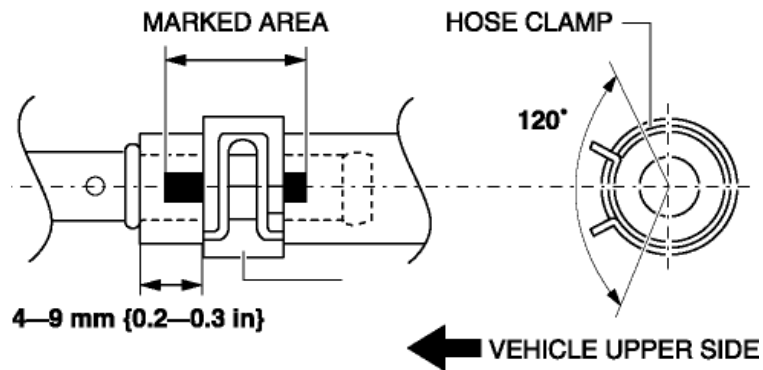
Oil pipe component side

1. Install the oil hose to the position shown in the figure.



- Verify that the oil hose mark is within the A range.

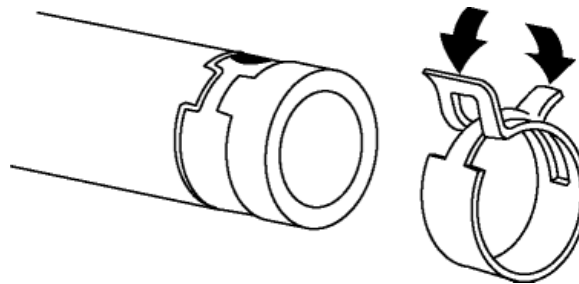
2. Install the hose clamp to the position shown in the figure.



- Verify that the hose clamp is within the marked area of the oil hose.
- Verify that the installation angle of the hose clamp is within the range shown in the figure.

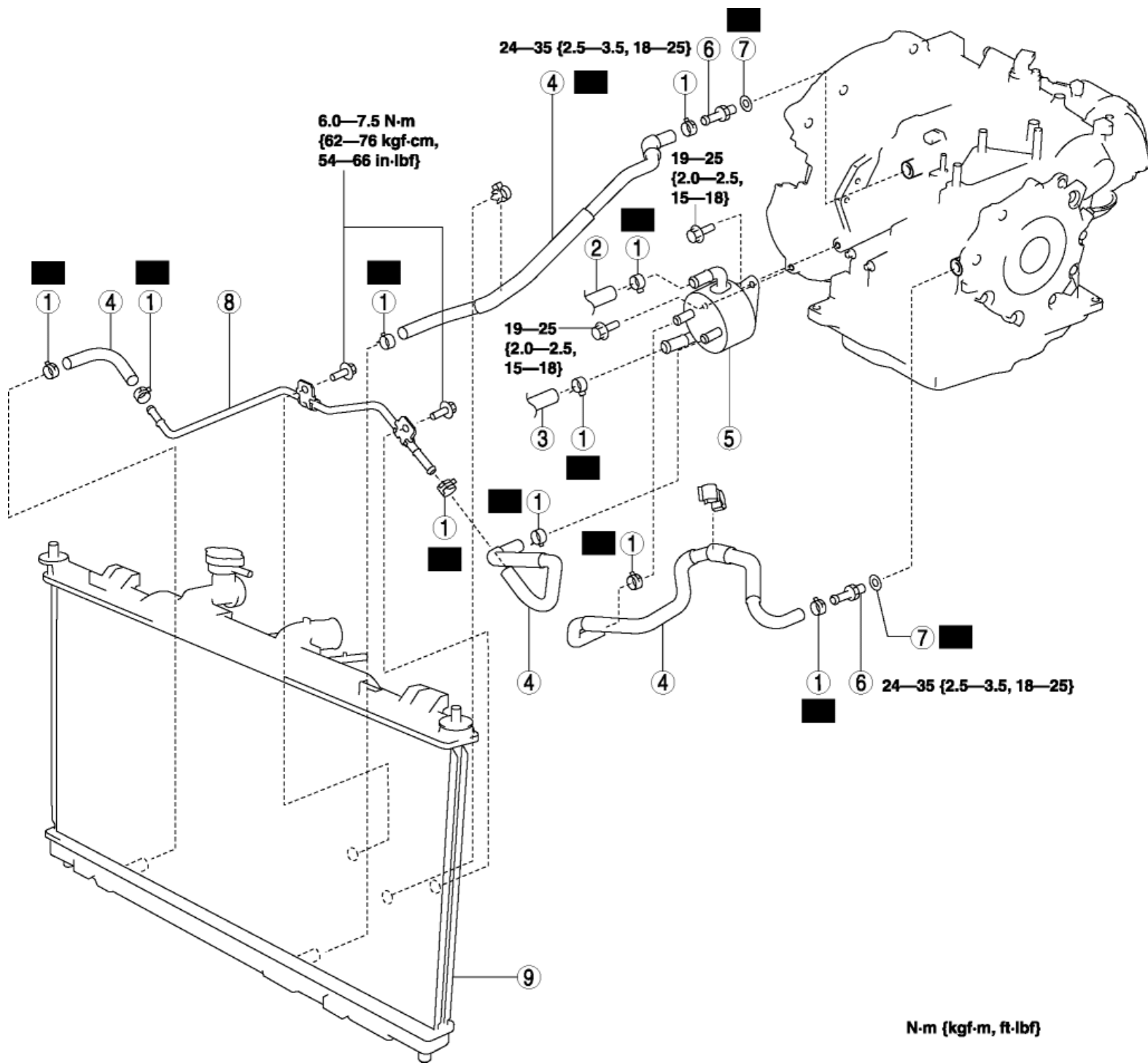
NOTE:

- If the oil hose is to be re-used, install the hose clamp to the impression in the hose left by the previous installation. After installation, apply force to the hose clamp in the direction of the arrows to engage the hose clamp securely.



3. Verify that the hose clamp does not interfere with surrounding the accessories.

Type B



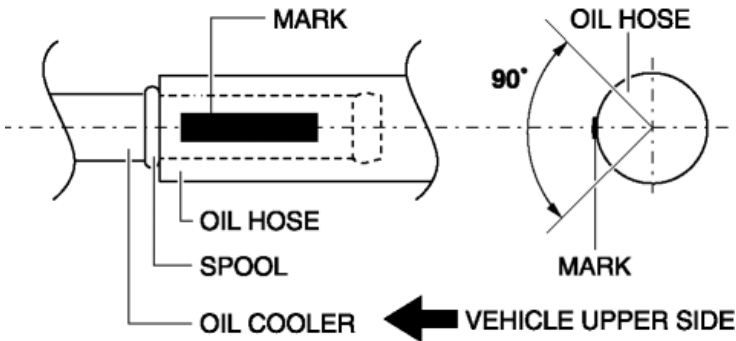
1	Hose clamp
2	Water hose (heater)
3	Water hose (thermostat)
4	Oil hose (See Oil Hose Installation Note.)
5	Oil cooler

6	Connector bolt
7	Packing
8	Oil pipe component
9	Radiator (in tank oil cooler)
	(See Oil Hose Installation Note .)

Oil Hose Installation Note

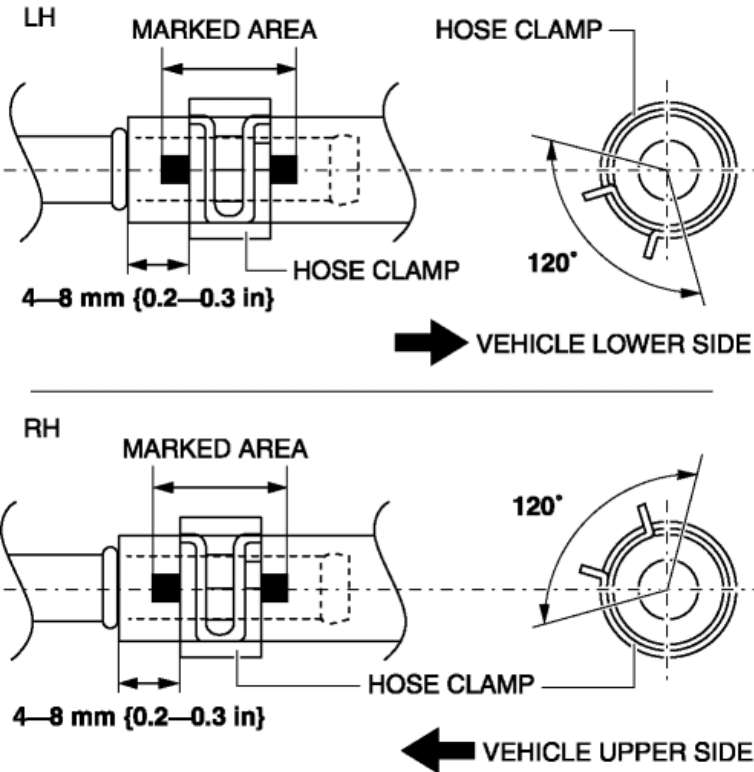
Oil cooler side

1. Install the oil hose to the position shown in the figure.



- Verify that the installation angle of the oil hose is within the range shown in the figure.

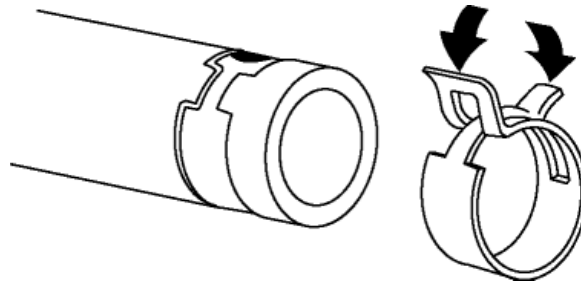
2. Install the hose clamp to the position shown in the figure.



- Verify that the hose clamp is within the marked area of the oil hose.
- Verify that the installation angle of the hose clamp is within the range shown in the figure.

NOTE:

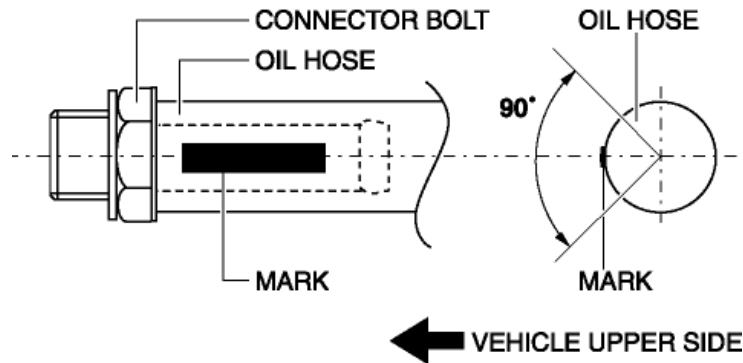
- If the oil hose is to be re-used, install the hose clamp to the impression in the hose left by the previous installation. After installation, apply force to the hose clamp in the direction of the arrows to engage the hose clamp securely.



3. Verify that the hose clamp does not interfere with surrounding the accessories.

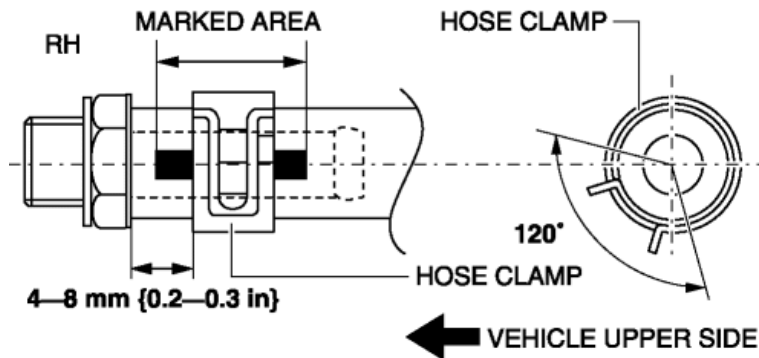
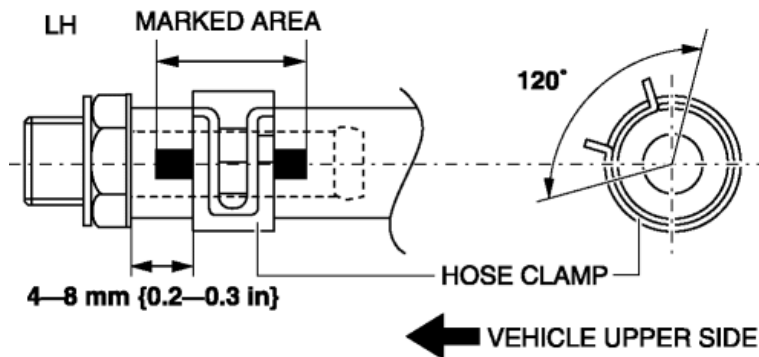
Connector bolt side

1. Install the oil hose to the position shown in the figure.



- Verify that the installation angle of the oil hose is within the range shown in the figure.

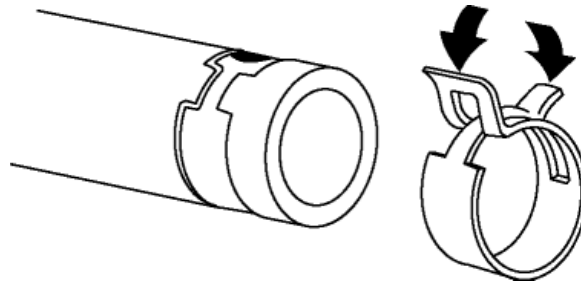
2. Install the hose clamp to the position shown in the figure.



- Verify that the hose clamp is within the marked area of the oil hose.
- Verify that the installation angle of the hose clamp is within the range shown in the figure.

NOTE:

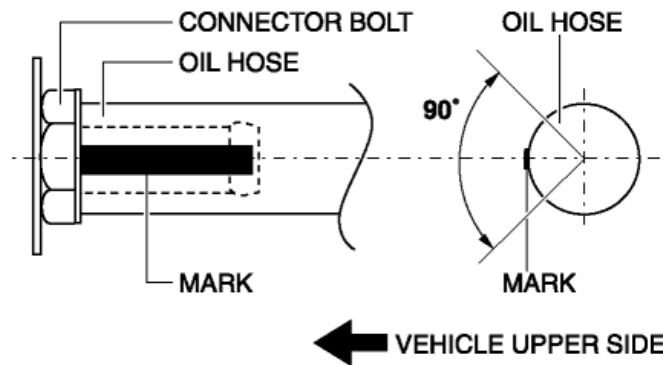
- If the oil hose is to be re-used, install the hose clamp to the impression in the hose left by the previous installation. After installation, apply force to the hose clamp in the direction of the arrows to engage the hose clamp securely.



3. Verify that the hose clamp does not interfere with surrounding the accessories.

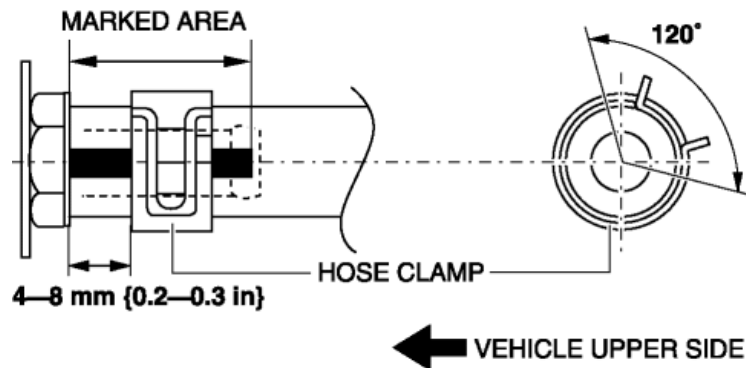
Radiator side

1. Install the oil hose to the position shown in the figure.



- Verify that the installation angle of the oil hose is within the range shown in the figure.

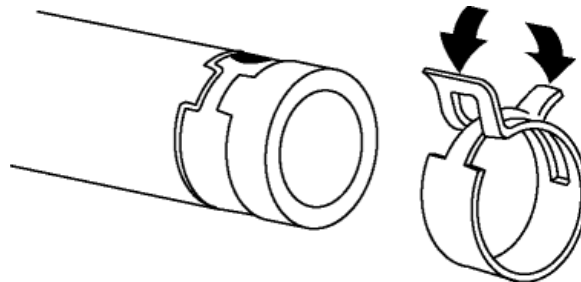
2. Install the hose clamp to the position shown in the figure.



- Verify that the hose clamp is within the marked area of the oil hose.
- Verify that the installation angle of the hose clamp is within the range shown in the figure.

NOTE:

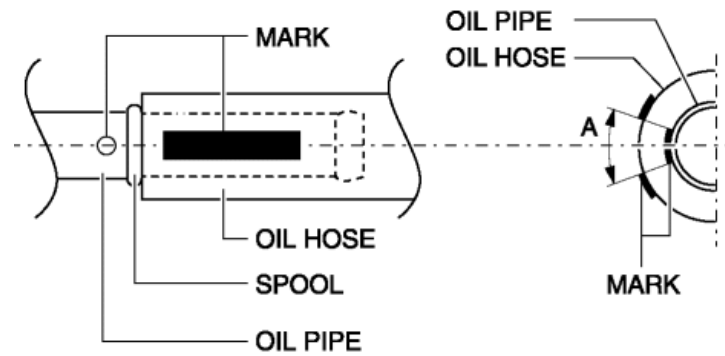
- If the oil hose is to be re-used, install the hose clamp to the impression in the hose left by the previous installation. After installation, apply force to the hose clamp in the direction of the arrows to engage the hose clamp securely.



3. Verify that the hose clamp does not interfere with surrounding the accessories.

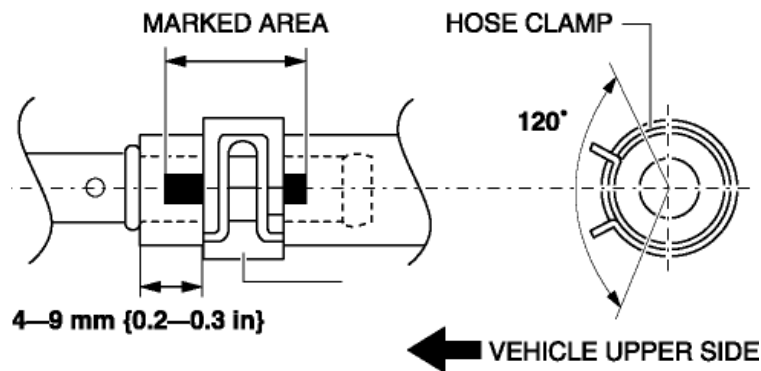
Oil pipe component side

1. Install the oil hose to the position shown in the figure.



- Verify that the oil hose mark is within the A range.

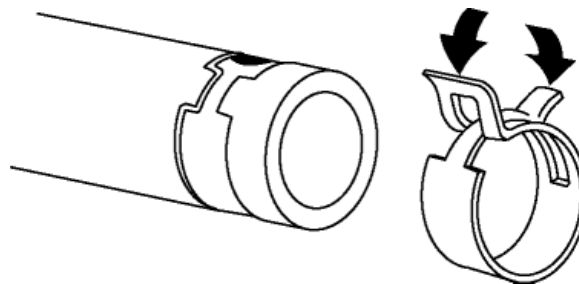
2. Install the hose clamp to the position shown in the figure.



- Verify that the hose clamp is within the marked area of the oil hose.
- Verify that the installation angle of the hose clamp is within the range shown in the figure.

NOTE:

- If the oil hose is to be re-used, install the hose clamp to the impression in the hose left by the previous installation. After installation, apply force to the hose clamp in the direction of the arrows to engage the hose clamp securely.



3. Verify that the hose clamp does not interfere with surrounding the accessories.

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WARNING:

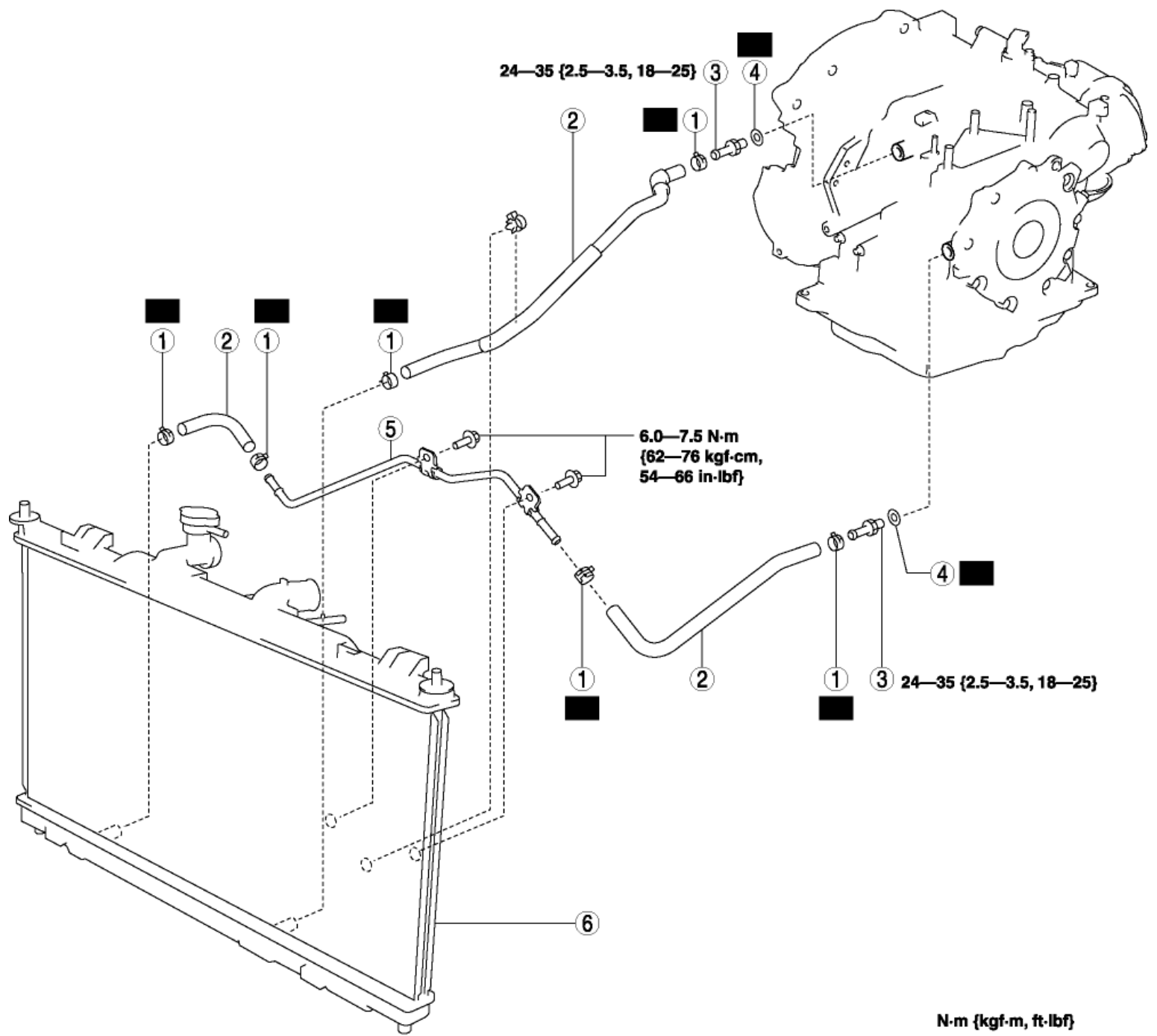
- A hot transaxle and ATF can cause severe burns. Turn off the engine and wait until they are cool.
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NOTE:

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2. Remove the air cleaner component. (See [INTAKE-AIR SYSTEM REMOVAL/ INSTALLATION \[MZR 2.5\]](#).)
3. Remove the aerodynamic under cover No.1. (See [AERODYNAMIC UNDER COVER NO.1 REMOVAL/ INSTALLATION](#).)
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11. Perform the "Mechanical System Test". (See [MECHANICAL SYSTEM TEST \[FS5A-EL\]](#).)

Type A

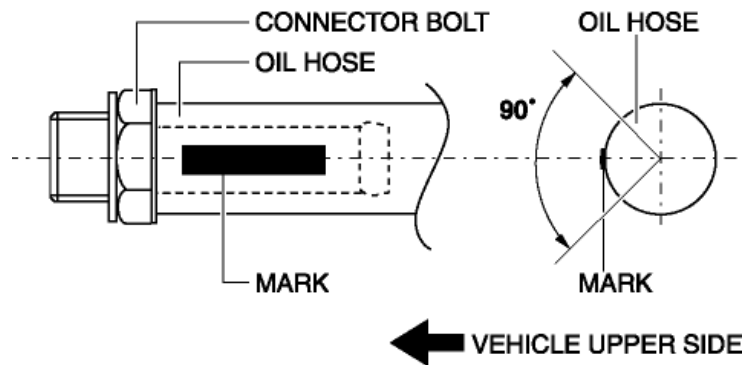


1	Hose clamp
2	Oil hose (See Oil Hose Installation Note.)
3	Connector bolt
4	Packing
5	Oil pipe component
6	Radiator (in tank oil cooler)

Oil Hose Installation Note

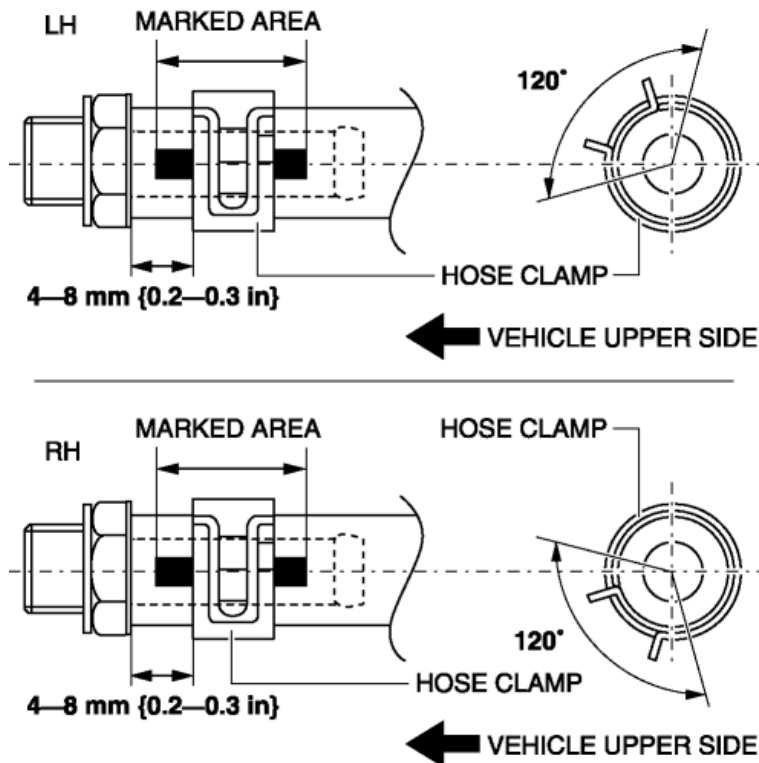
Connector bolt side

1. Install the oil hose to the position shown in the figure.



- Verify that the installation angle of the oil hose is within the range shown in the figure.

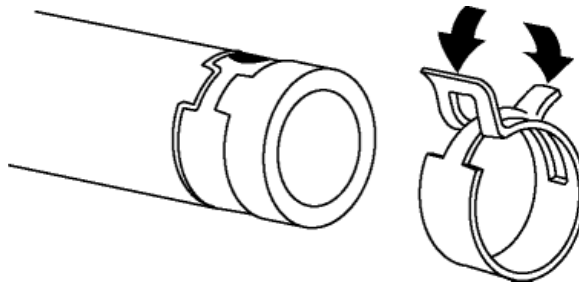
2. Install the hose clamp to the position shown in the figure.



- Verify that the hose clamp is within the marked area of the oil hose.
- Verify that the installation angle of the hose clamp is within the range shown in the figure.

NOTE:

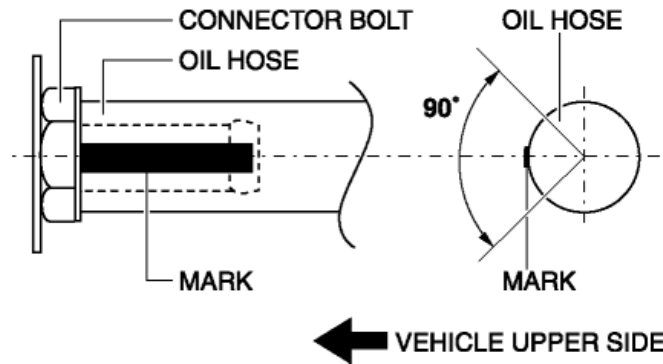
- If the oil hose is to be re-used, install the hose clamp to the impression in the hose left by the previous installation. After installation, apply force to the hose clamp in the direction of the arrows to engage the hose clamp securely.



3. Verify that the hose clamp does not interfere with surrounding the accessories.

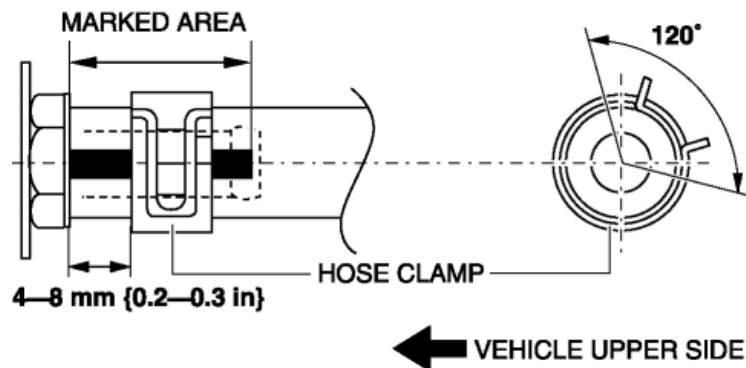
Radiator side

1. Install the oil hose to the position shown in the figure.



- Verify that the installation angle of the oil hose is within the range shown in the figure.

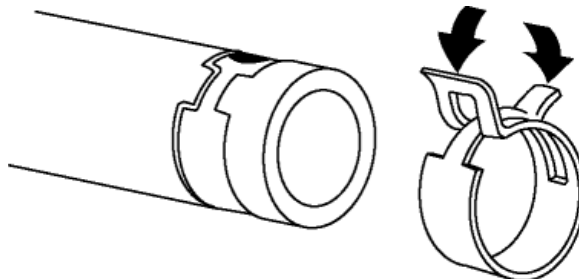
2. Install the hose clamp to the position shown in the figure.



- Verify that the hose clamp is within the marked area of the oil hose.
- Verify that the installation angle of the hose clamp is within the range shown in the figure.

NOTE:

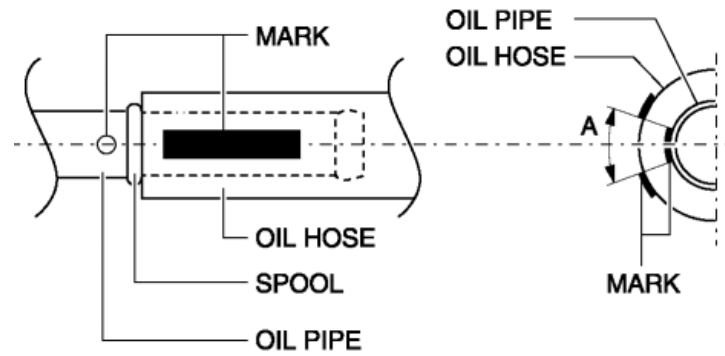
- If the oil hose is to be re-used, install the hose clamp to the impression in the hose left by the previous installation. After installation, apply force to the hose clamp in the direction of the arrows to engage the hose clamp securely.



3. Verify that the hose clamp does not interfere with surrounding the accessories.

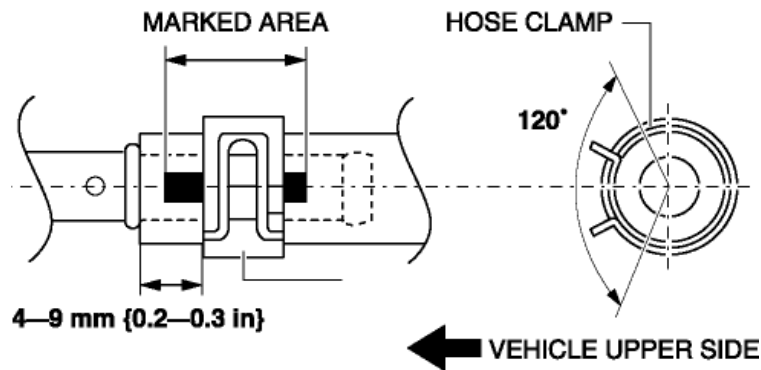
Oil pipe component side

1. Install the oil hose to the position shown in the figure.



- Verify that the oil hose mark is within the A range.

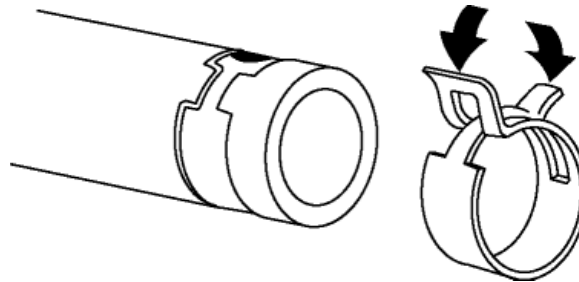
2. Install the hose clamp to the position shown in the figure.



- Verify that the hose clamp is within the marked area of the oil hose.
- Verify that the installation angle of the hose clamp is within the range shown in the figure.

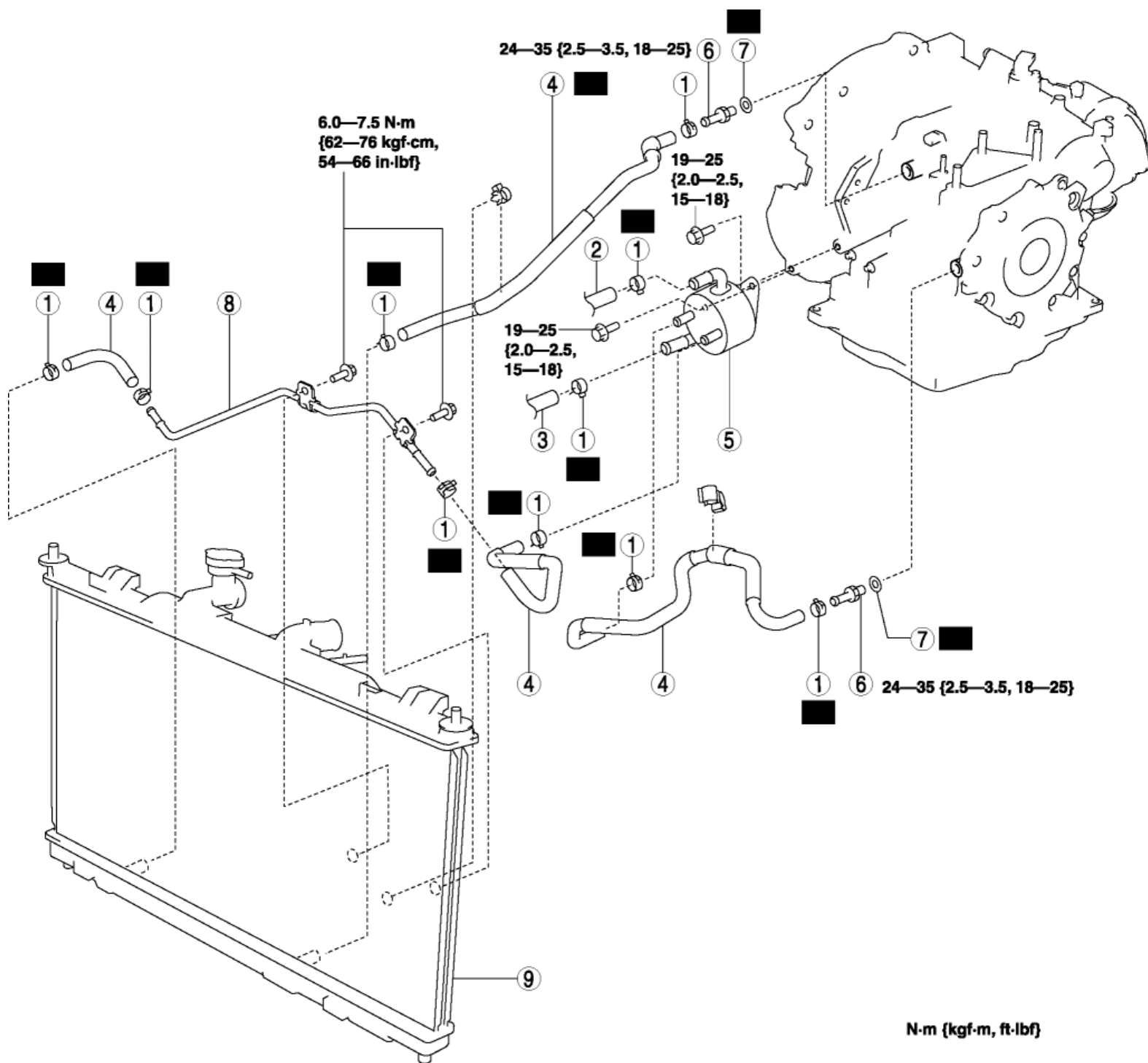
NOTE:

- If the oil hose is to be re-used, install the hose clamp to the impression in the hose left by the previous installation. After installation, apply force to the hose clamp in the direction of the arrows to engage the hose clamp securely.



3. Verify that the hose clamp does not interfere with surrounding the accessories.

Type B



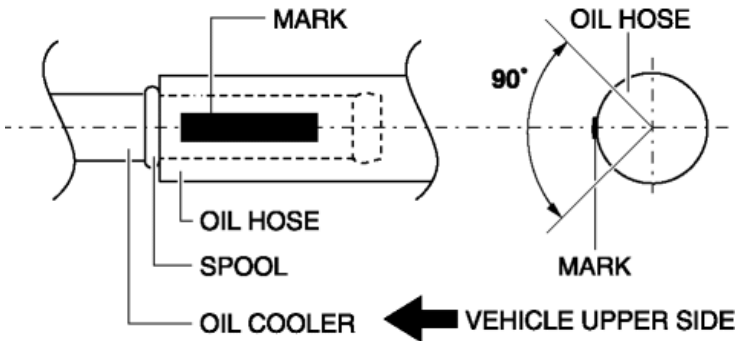
1	Hose clamp
2	Water hose (heater)
3	Water hose (thermostat)
4	Oil hose (See Oil Hose Installation Note.)
5	Oil cooler

6	Connector bolt
7	Packing
8	Oil pipe component
9	Radiator (in tank oil cooler)
	(See Oil Hose Installation Note.)

Oil Hose Installation Note

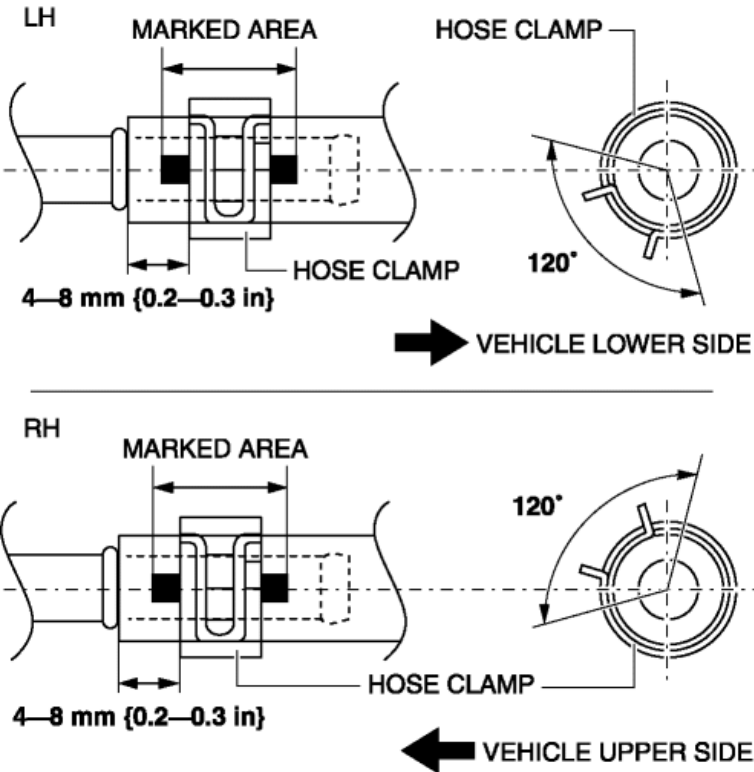
Oil cooler side

1. Install the oil hose to the position shown in the figure.



- Verify that the installation angle of the oil hose is within the range shown in the figure.

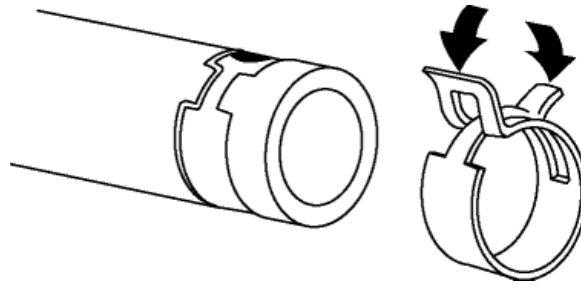
2. Install the hose clamp to the position shown in the figure.



- Verify that the hose clamp is within the marked area of the oil hose.
- Verify that the installation angle of the hose clamp is within the range shown in the figure.

NOTE:

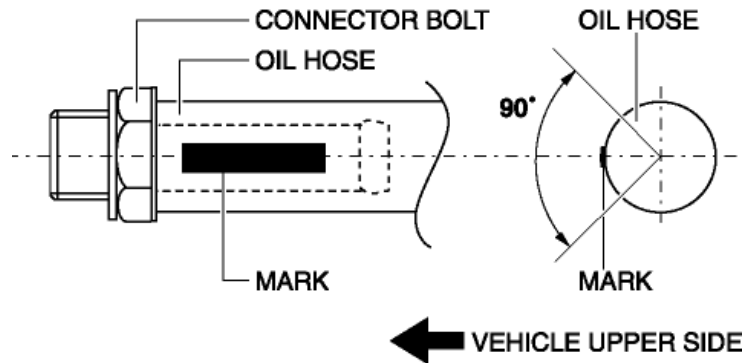
- If the oil hose is to be re-used, install the hose clamp to the impression in the hose left by the previous installation. After installation, apply force to the hose clamp in the direction of the arrows to engage the hose clamp securely.



3. Verify that the hose clamp does not interfere with surrounding the accessories.

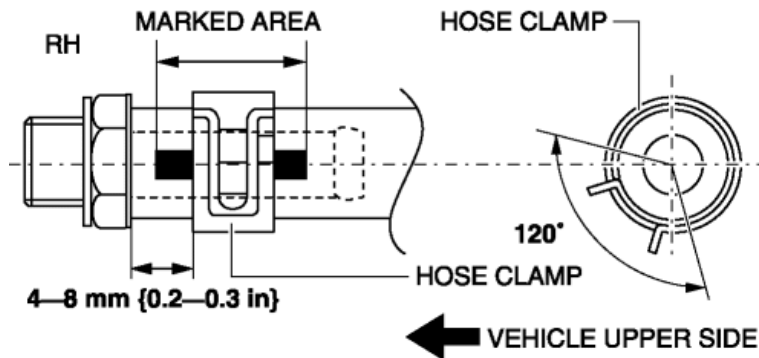
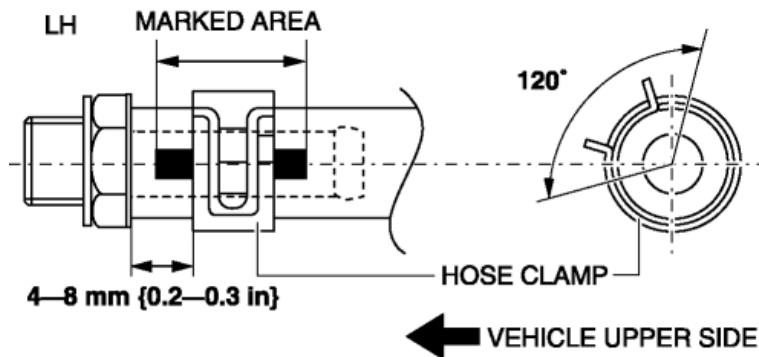
Connector bolt side

1. Install the oil hose to the position shown in the figure.



- Verify that the installation angle of the oil hose is within the range shown in the figure.

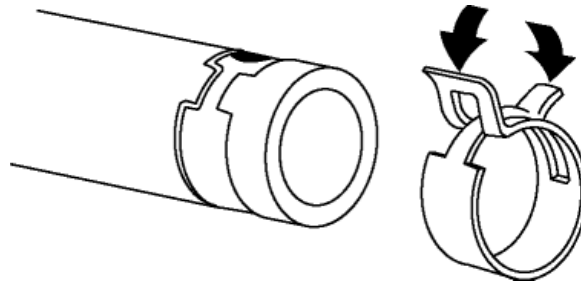
2. Install the hose clamp to the position shown in the figure.



- Verify that the hose clamp is within the marked area of the oil hose.
- Verify that the installation angle of the hose clamp is within the range shown in the figure.

NOTE:

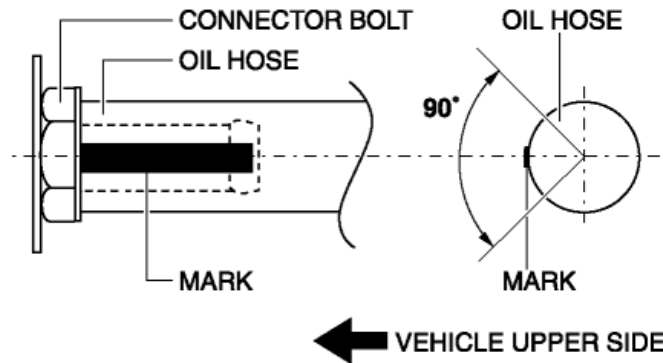
- If the oil hose is to be re-used, install the hose clamp to the impression in the hose left by the previous installation. After installation, apply force to the hose clamp in the direction of the arrows to engage the hose clamp securely.



3. Verify that the hose clamp does not interfere with surrounding the accessories.

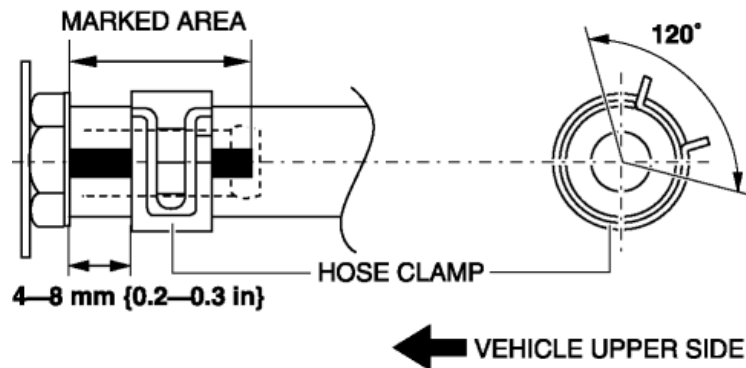
Radiator side

1. Install the oil hose to the position shown in the figure.



- Verify that the installation angle of the oil hose is within the range shown in the figure.

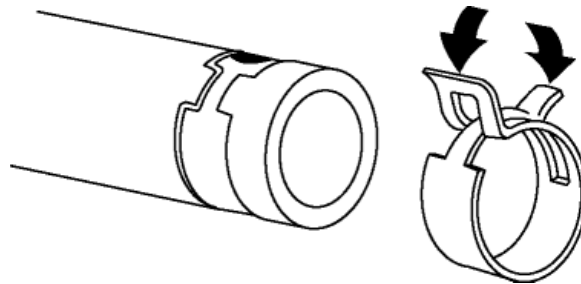
2. Install the hose clamp to the position shown in the figure.



- Verify that the hose clamp is within the marked area of the oil hose.
- Verify that the installation angle of the hose clamp is within the range shown in the figure.

NOTE:

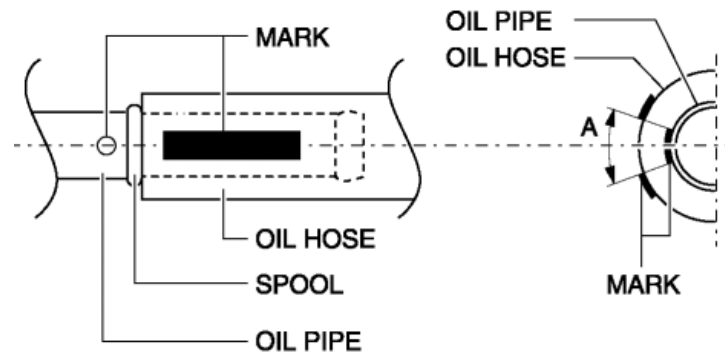
- If the oil hose is to be re-used, install the hose clamp to the impression in the hose left by the previous installation. After installation, apply force to the hose clamp in the direction of the arrows to engage the hose clamp securely.



3. Verify that the hose clamp does not interfere with surrounding the accessories.

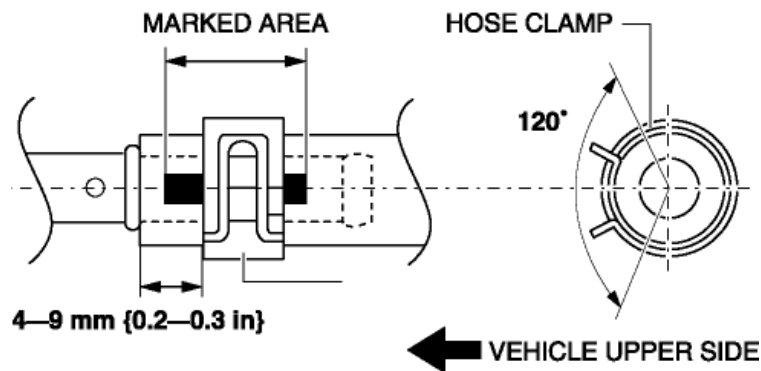
Oil pipe component side

1. Install the oil hose to the position shown in the figure.



- Verify that the oil hose mark is within the A range.

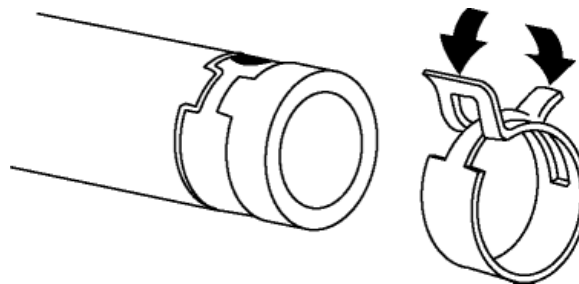
2. Install the hose clamp to the position shown in the figure.



- Verify that the hose clamp is within the marked area of the oil hose.
- Verify that the installation angle of the hose clamp is within the range shown in the figure.

NOTE:

- If the oil hose is to be re-used, install the hose clamp to the impression in the hose left by the previous installation. After installation, apply force to the hose clamp in the direction of the arrows to engage the hose clamp securely.



3. Verify that the hose clamp does not interfere with surrounding the accessories.