

ENGINE COOLING

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1410900079

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GENERAL INFORMATION

14100010064

The cooling system is designed to keep every part of the engine at appropriate temperature in **whatever** condition the engine may be operated. The cooling **method** is of the water-cooled, pressure forced circulation type in which the water pump pressurizes coolant and circulates it throughout the engine: If the coolant temperature exceeds the prescribed temperature, the thermostat opens to circulate the coolant through the radiator as well so

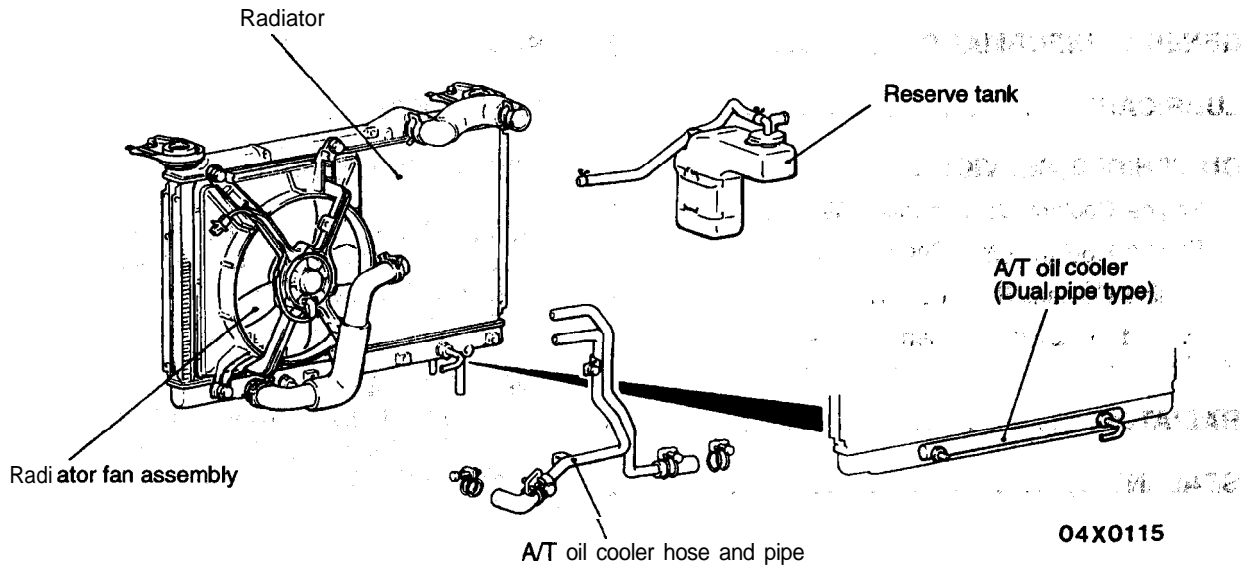
that the heat absorbed by the coolant may be radiated into the air.

The water pump is of the centrifugal type and is driven by the **timing belt or the drive belt** from the pump crankshaft.

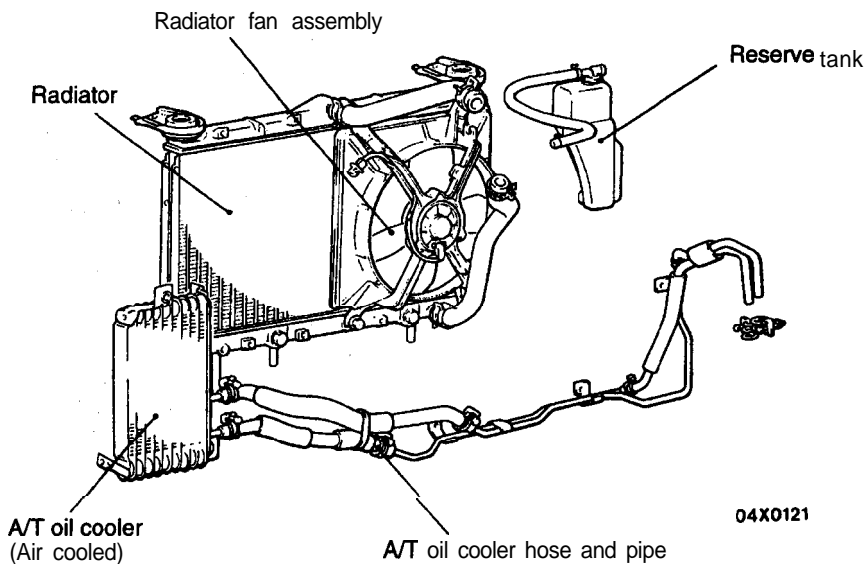
The radiator is the **corrugated fin, down flow** type and is cooled by the electrical radiator fan.

CONSTRUCTION DIAGRAM

<2.0L Engine (Non-turbo)>

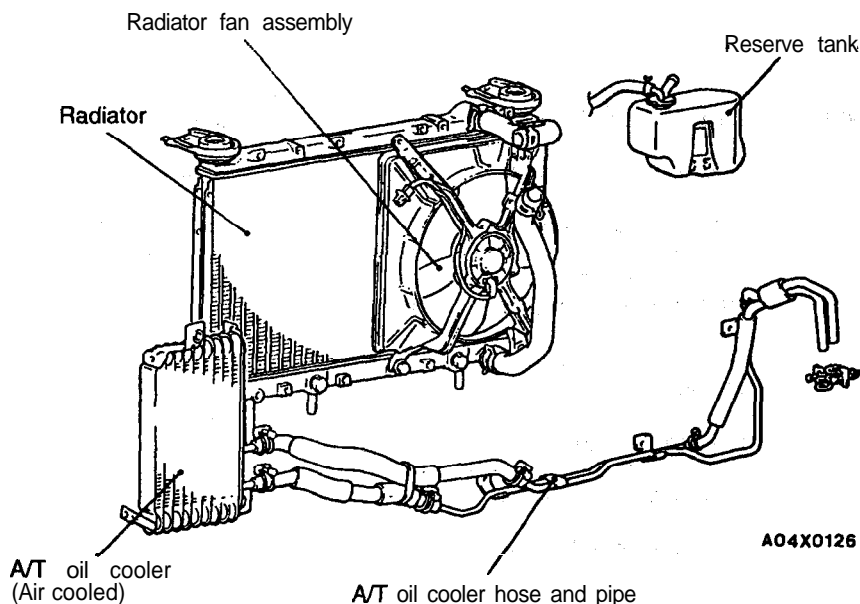


<2.0L Engine (Turbo)>



00003853

<2.4L Engine>



SERVICE SPECIFICATIONS

14100030060

Items			Standard value	Limit
Thermostat	Valve opening temperature of thermostat °C (°F)	2.0L Engine (Non-turbo)	90.5 (195)	—
		2.0L Engine (Turbo) and 2.4L Engine	82 (180)	—
	Full-opening temperature of thermostat °C (°F)	2.0L Engine (Non-turbo)	102 (216)	—
		2.0L Engine (Turbo) and 2.4L Engine	95 (203)	—
Radiator cap valve opening pressure kPa (psi)	2.0L Engine (Non-turbo)	94-122 (14-18)	—	
	2.0L Engine (Turbo) and 2.4L Engine	75-105 (11-15)	65 (9.2)	

LUBRICANT

14100040063

Item		Quantity dm ³ (qts.)
Engine coolant	HIGH QUALITY ETHYLENE GLYCOL ANTIFREEZE COOLANT	7.0 (7.4)

SEALANT

14100050066

Item	Specified sealant
Thermostat case <2.0L Engine (Turbo) and 2.4L Engine>	Mitsubishi Genuine Parts No. MD970389 or equivalent:

TROUBLESHOOTING

14190070109

OVERHEAT

Probable cause		Remedy
Inoperative electric cooling fan	Faulty electrical motor ,	Replace
	Faulty radiator fan relay	Replace
Water leaks	Damaged radiator core joint	Replace
	Corroded or cracked hoses (radiator hose, heater hose, etc.)	Replace
	Faulty radiator cap valve or setting of spring	Replace
	Cracked intake manifold	Replace
	Cracked thermostat housing	Replace
	Loose bolts or leaking gasket in water outlet fitting	Torque bolts again or replace gasket
	Loose bolts or leaking gasket in water inlet fitting	Torque bolts again or replace gasket
	Loose water pump mounting bolts or leaking gasket	Torque bolts again or replace gasket
Faulty automatic transaxle oil cooler operation	Blocked or collapsed hose and pipe	Replace
	Loose hose and pipe connection	Correct
Others	Insufficient engine coolant	Fill
	Too high an anti-freeze concentration	Correct anti-freeze concentration
	Loose or broken drive belt	Replace
	Damaged or blocked (insufficiently ventilated) radiator fins	Correct
	Faulty thermostat operation	Replace
	Faulty water pump operation	Replace
	Water passage clogged with slime or rust deposit or foreign substance	Clean

NO RISE IN TEMPERATURE

Probable cause	Remedy
Faulty thermostat	Replace

TROUBLESHOOTING HINTS

<2.0L Engine (Non-turbo)>

1. Only the radiator fan does not operate.
 - Check fusible link No. 7.
2. Only the condenser fan does not operate.
 - Check dedicated fuse No. 9.
3. The radiator fan and condenser fan do' not operate in the low speed mode, but operate otherwise.
 - Check the radiator fan motor relay (LO) and condenser fan motor relay (LO).
 - Check the powertrain control module.
4. The radiator fan and condenser fan **do not** operate in the high speed mode, 'but **operate** otherwise.
 - Check the radiator fan motor relay (**HI**) and condenser fan motor relay (HI).
 - Check the power-train control module.

Fan Operating Mode

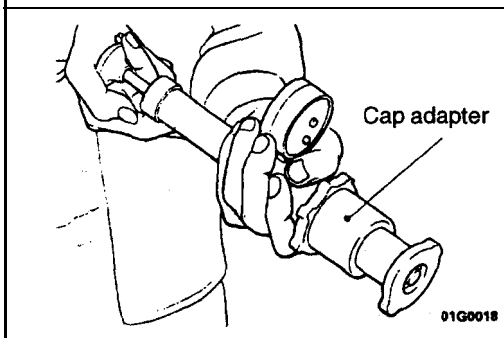
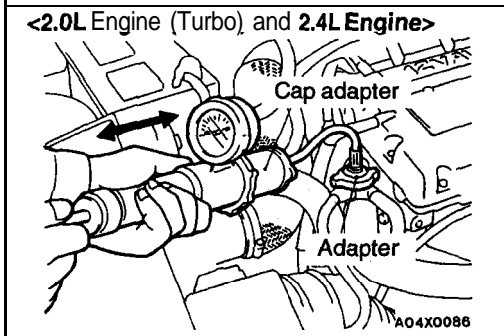
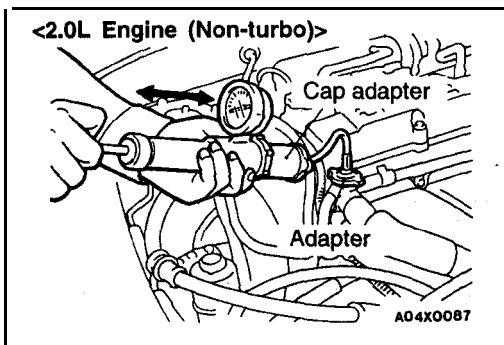
Air conditioning switch	Vehicle speed sensor km/h (mph)	Engine coolant temperature sensor °C (°F)	Fan revolving operation condition		
			Radiator fan motor		Condenser fan motor
			M/T	A/T	
OFF	45 (28) or less	95 (203) or less	OFF	OFF	OFF
		95 (203)–100 (210)	HIGH	Medium	OFF
		100 (210) or more	HIGH	HIGH	Medium
OFF	45 (28)–80 (50)	90 (194) or less	OFF	OFF	OFF
		90 (194)–100 (210)	HIGH	Medium	OFF
		100 (210) or more	HIGH	HIGH	Medium
OFF	80 (50) or more	100 (210) or less	OFF	OFF	Medium
		100 (210) or more	HIGH	HIGH	OFF
ON	20 (12) or less	100 (210) or less	HIGH	Medium	Medium
		100 (210)–115 (242)	HIGH	HIGH	HIGH
		115 (242) or more	HIGH	HIGH	HIGH
ON	20 (12)–80 (50)	100 (210) or less	HIGH	Medium	Medium
		100 (210)–115 (242)	HIGH	HIGH	HIGH
		115 (242) or more	HIGH	HIGH	HIGH
ON	80 (50) or more	100 (210) or less	HIGH	Medium	Medium
		100 (210)–115 (242)	HIGH	HIGH	HIGH
		115 (242) or more	HIGH	HIGH	HIGH

<2.0L Engine (Turbo) and 2.4L Engine>

1. Only the radiator fan does not operate.
 - Check fusible link No. 7.
2. Only the condenser fan does not operate.
 - Check dedicated fuse No. 9.
3. The radiator fan and condenser fan do not operate in the low speed mode, but operate otherwise.
 - Check the radiator fan motor relay (LO) and condenser fan motor relay (LO).
 - Check the engine control module.
(Refer to GROUP 13A – Troubleshooting.)
4. The radiator fan and condenser fan do not operate in the high speed mode, but operate otherwise.
 - Check the radiator fan motor relay (HI) and condenser fan motor relay (HI).
 - Check the engine control module.
(Refer to, GROUP 13A – Troubleshooting.)

Fan Operating Mode

Air conditioning switch	Vehicle speed sensor km/h (mph)	Engine coolant temperature sensor °C (°F)	Fan revolving operation condition		
			Radiator fan motor		Condenser fan motor
			M/T	A/T	
OFF	45 (28) or less	95 (203) or less	OFF	OFF	OFF
		95 (203)–100 (210)	Medium	LOW	OFF
		100 (210) or more	HIGH	HIGH	Medium
OFF	45 (28)–80(50)	90 (194) or less	OFF	OFF	OFF
		90 (194)–100 (210)	Medium	LOW	OFF
		100 (210) or more	HIGH	HIGH	Medium
OFF	80 (50) or more	100 (210) or less	OFF	OFF	OFF
		100 (210) or more	HIGH	HIGH	Medium
ON	20 (12) or less	100 (210) or less	Medium	LOW	Medium
		100 (210)–115 (242)	HIGH	HIGH	HIGH
		115 (242) or more	HIGH	HIGH	HIGH
ON	20 (12)–80(50)	100 (210) or less	Medium	LOW	Medium
		100 (210)–115 (242)	HIGH	HIGH	HIGH
		115 (242) or more	HIGH	HIGH	HIGH
ON	80 (50) or more	100 (210) or less	Medium	LOW	Medium
		100 (210)–115 (242)	HIGH	HIGH	HIGH
		115 (242) or more	HIGH	HIGH	HIGH



ON-VEHICLE SERVICE

1410010061

ENGINE COOLANT LEAK CHECK

1. Confirm that the coolant level is up to the filter neck. Install a radiator cap tester and apply 160 kPa (23 psi) pressure, and then check for leakage from the radiator hose or connections.

Caution

1. After testing, clean up all coolant seepage from areas of leakage.
 2. When the tester is removed, be careful not to spill any coolant.
 3. During tester usage, do not deform the filler neck of the radiator.
2. If leakage is present, repair or replace the appropriate part.

RADIATOR CAP VALVE OPENING PRESSURE CHECK

14100130067

1. Use a cap adapter to attach the radiator cap to the tester.
2. Increase the pressure until the indicator of the gauge stops moving.

Standard value:

- <2.0L Engine (Non-turbo)>
94 - 122 kPa (14-18 psi)
- <2.0L Engine (Turbo) and 2.4L Engine>
75-105 kPa (11-15 psi)

Limit:

- <2.0L Engine (Turbo) and 2.4L Engine>
65 kPa (9.2 psi)

3. Replace the radiator cap if the reading does not remain at or above the limit.

NOTE

Be sure that the radiator cap is clean before testing, since rust or other foreign material on the radiator cap seal may cause an improper reading.

ENGINE COOLANT REPLACEMENT

14100120088

Refer to GROUP 00 – Maintenance Service.

ENGINE COOLANT CONCENTRATION TEST

14100110085

Refer to GROUP 00 – Recommended Lubricants and Lubricant Capacities Table.

RADIATOR

REMOVAL AND INSTALLATION

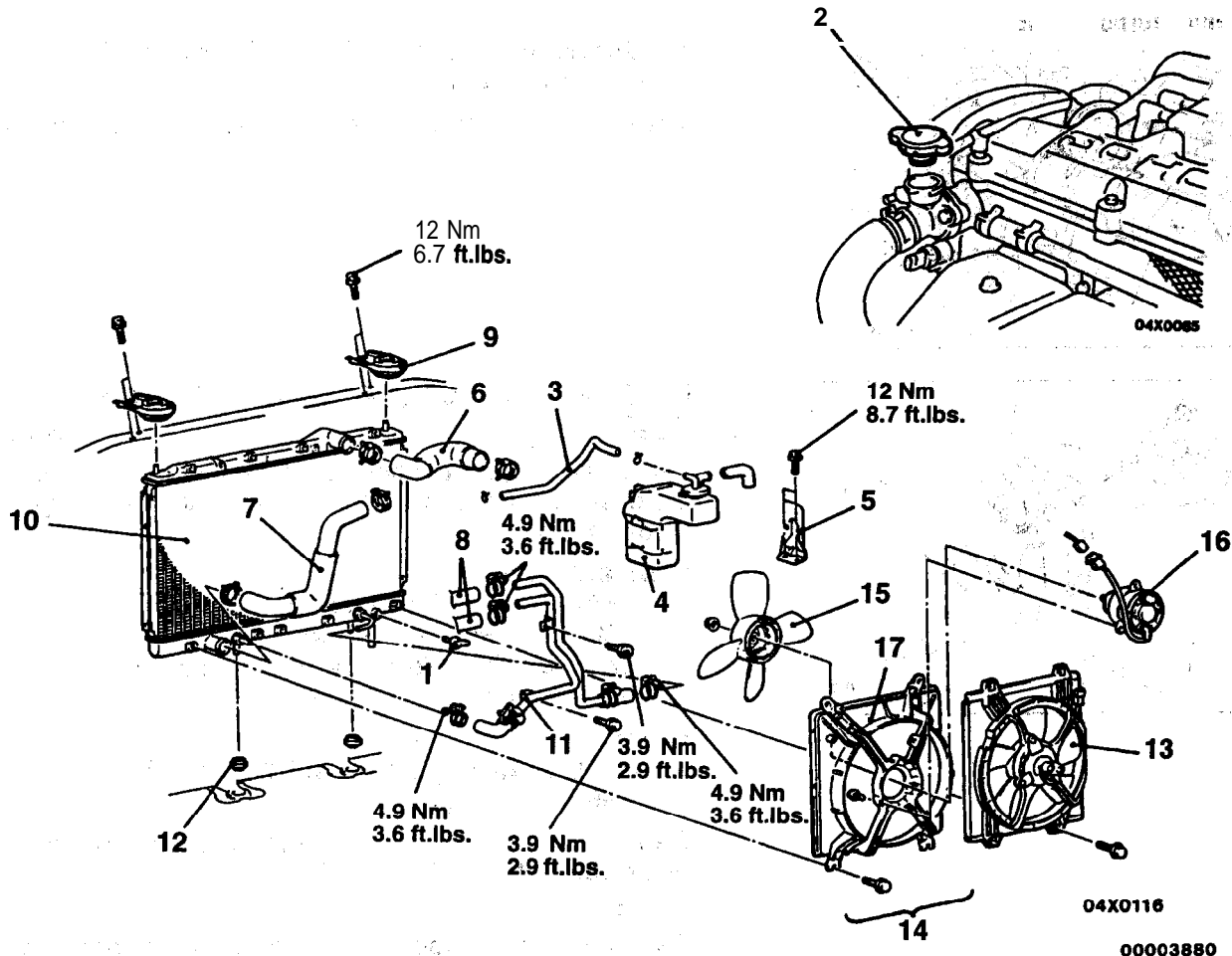
<2.0L Engine (Non-turbo)>

Pre-removal Operation

- Engine Coolant Draining (Refer to GROUP 00 – Maintenance Service.)

Post-installation Operation

- Engine Coolant Supplying and Checking (Refer to GROUP 00 – Maintenance Service.)
- A/T Fluid Checking and Refilling if Necessary <Vehicles with A/T> (Refer to GROUP 00 – Maintenance Service.)



Radiator removal steps

1. Drain plug
2. Radiator cap
3. Overflow tube
4. Reserve tank
5. Reserve tank bracket
6. Radiator upper hose
7. Radiator lower hose
8. Transaxle fluid cooler hose, connection <Vehicles with A/T>
9. Upper insulator
10. Radiator assembly
11. Transaxle fluid cooler hose and pipe assembly <Vehicles with A/T>
12. Lower insulator

13. Condenser fan motor assembly <Vehicles with A/C>
14. Radiator fan motor assembly
15. Fan
16. Radiator fan motor
17. Shroud

Radiator fan motor removal steps

11. Transaxle fluid cooler hose and pipe assembly <Vehicles with A/T>
14. Radiator fan motor assembly
15. Fan
16. Radiator fan motor
17. Shroud

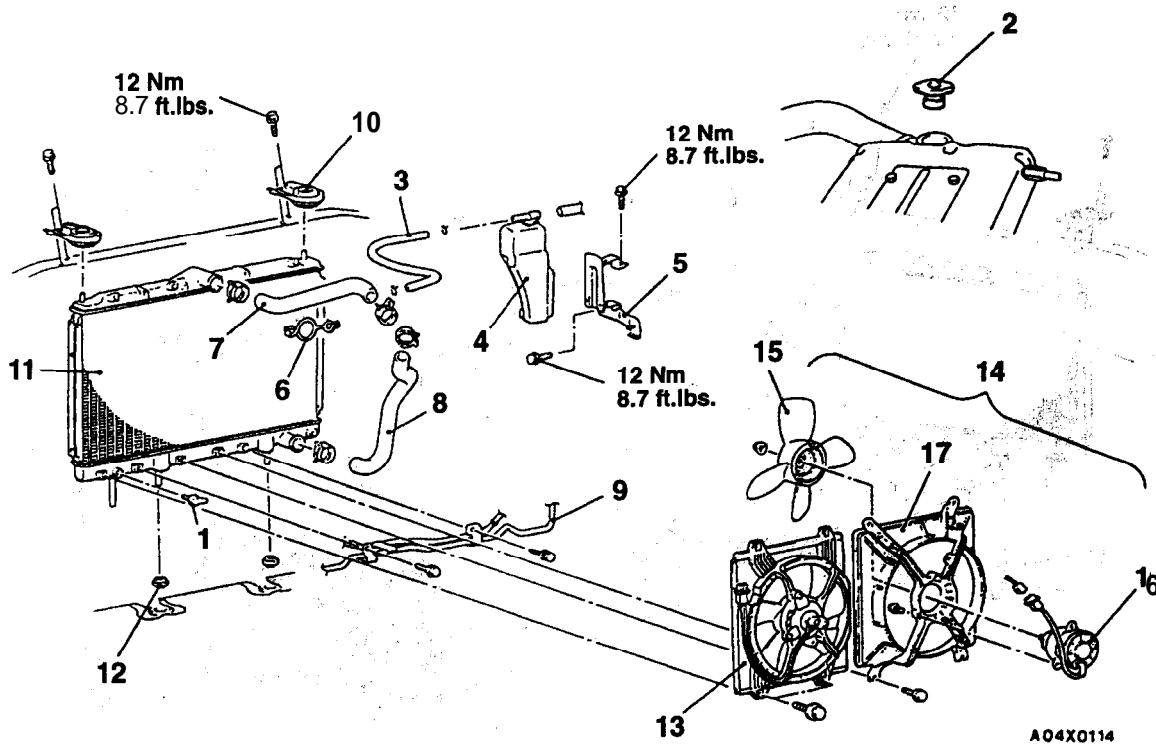
<2.0L Engine (Turbo)>

Pre-removal Operation

- Engine Coolant Draining (Refer to GROUP 00 – Maintenance Service.)

Post-installation Operation

- Engine Coolant Supplying and Checking (Refer to GROUP 00 – Maintenance Service.)
- A/T Fluid Checking and Refilling if Necessary <Vehicles with A/T> (Refer to GROUP 00 – Maintenance Service.)



Radiator removal steps

1. Drain plug
2. Radiator cap
3. Overflow tube
4. Reserve tank
5. Reserve tank bracket
6. Clip
7. Radiator upper hose
8. Radiator lower hose
9. Transaxle fluid cooler hose and pipe assembly <Vehicles with A/T>
10. Upper insulator
11. Radiator assembly
12. Lower insulator
13. Condenser fan motor assembly <Vehicles with A/C>
14. Radiator fan motor assembly
15. Fan
16. Radiator fan motor
17. Shroud



Radiator fan motor removal steps

4. Reserve tank
9. Transaxle fluid cooler hose and pipe assembly <Vehicles with A/T>
14. Radiator fan motor assembly
15. Fan
16. Radiator fan motor
17. Shroud



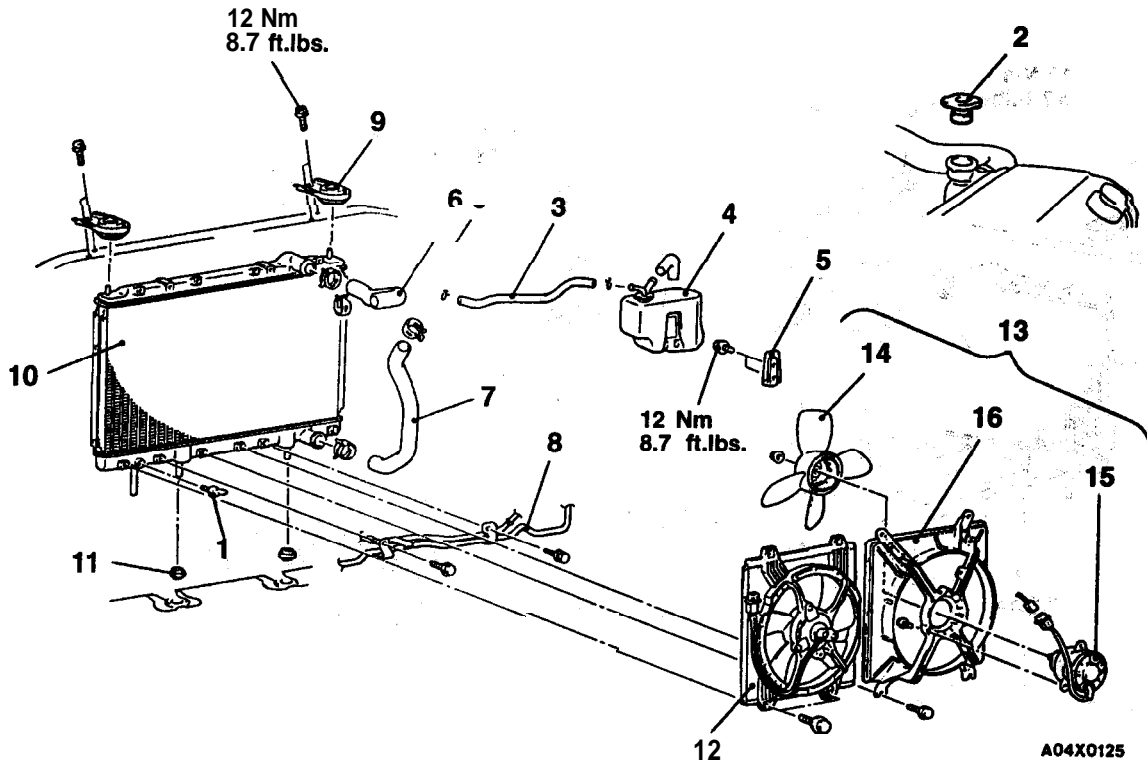
<2.4L Engine>

Pm-removal Operation

- Engine Coolant Draining
(Refer to GROUP 00 – Maintenance Service.)

Post-installation Operation

- Engine Coolant Supplying and **Checking** (Refer to GROUP 00 – Maintenance Service.)
- **A/T Fluid Checking -and Refilling if Necessary**
<Vehicles with A/T>
(Refer to GROUP 00 – Maintenance Service.)



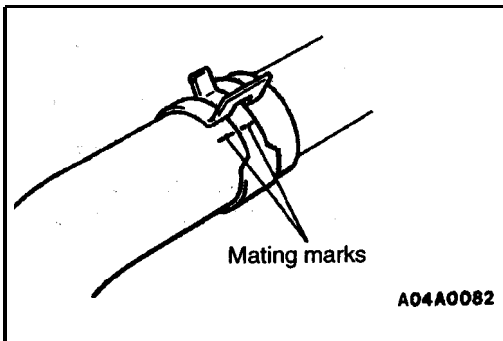
Radiator removal steps

1. Drain plug
2. Radiator cap
3. Overflow tube
4. Reserve tank
5. Reserve tank bracket
8. Radiator upper hose
7. Radiator lower hose
8. Transaxle fluid cooler hose and pipe assembly <Vehicles with A/T>
9. Upper insulator
10. Radiator assembly
11. Lower insulator
12. Condenser fan motor assembly <Vehicles with A/C>
13. Radiator fan motor assembly
14. Fan
15. Radiator fan motor
16. Shroud

Radiator fan motor removal steps

4. Reserve tank
8. Transaxle fluid cooler hose and pipe assembly <Vehicle with A/T>
13. Radiator fan motor assembly
14. Fan
15. Radiator fan motor
16. Shroud





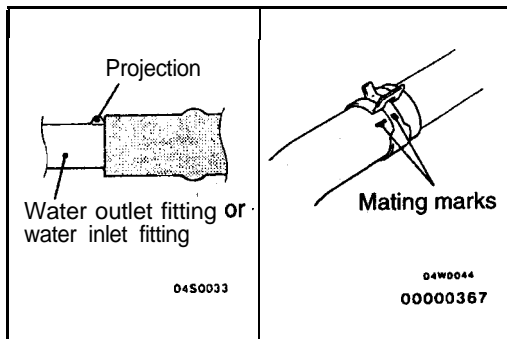
REMOVAL SERVICE POINTS

◀A▶ RADIATOR UPPER HOSE/RADIATOR LOWER HOSE DISCONNECTION

After making mating marks on the radiator hose and the hose clamp, disconnect the radiator hose.

◀B▶ TRANSAXLE FLUID COOLER HOSE/TRANSAXLE FLUID COOLER HOSE AND PIPE ASSEMBLY REMOVAL

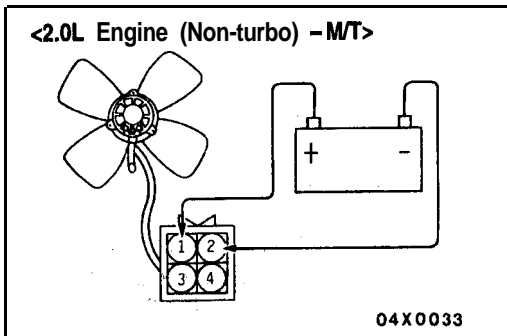
After removing the hose from the radiator, plug the hose and the radiator nipple to prevent dust or foreign particles from getting in.



INSTALLATION SERVICE POINT

▶A◀ RADIATOR LOWER HOSE/RADIATOR UPPER HOSE CONNECTION

- (1) Insert each hose as far as the projection of the water outlet fitting or water inlet fitting.
- (2) Align the mating marks on the radiator hose and hose clamp, and then connect the radiator hose.

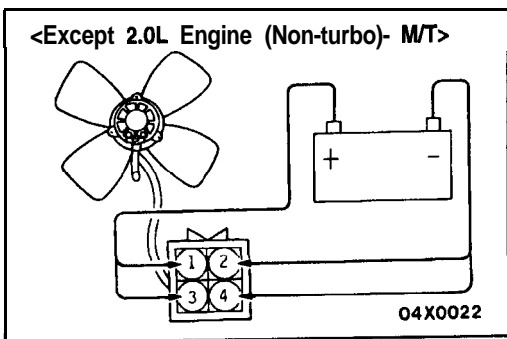


INSPECTION

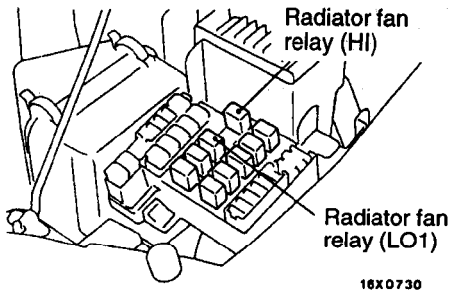
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RADIATOR FAN MOTOR CHECK

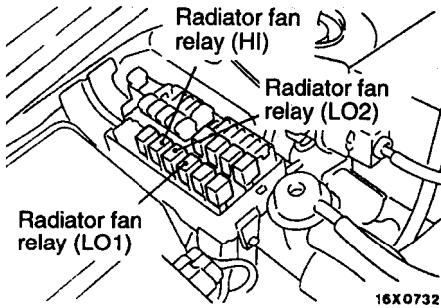
- (1) Check to be sure that the radiator fan rotates when battery voltage is applied between terminals (as shown in the figure).
- (2) Check to see that abnormal noises are not produced, while motor is turning.



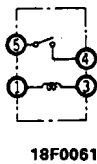
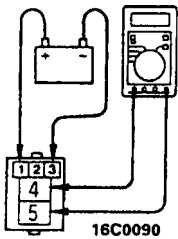
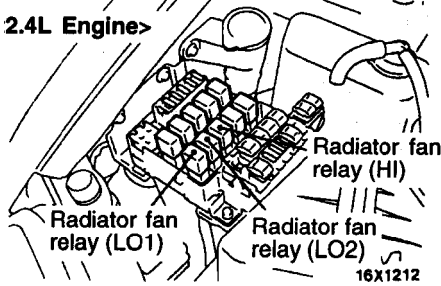
<2.0L Engine (Non-Turbo)>



<2.0L Engine (Turbo)>



2.4L Engine>



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RADIATOR FAN RELAY CONTINUITY CHECK 14100440061

Battery voltage	Terminal No.			
	1	3	4	5
Power is not supplied	○	○		
Power is supplied	⊕	⊖	○	○

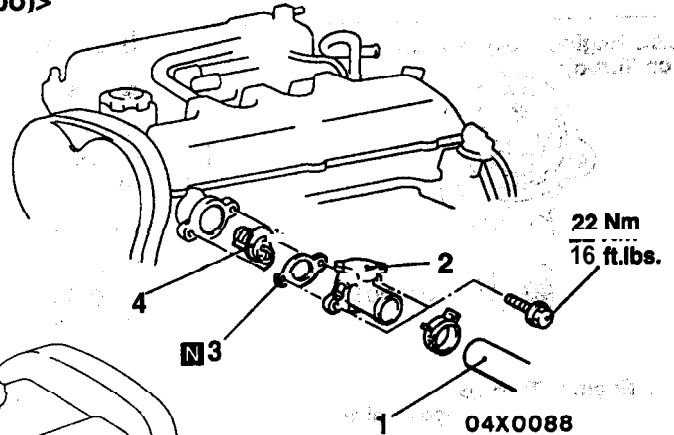
THERMOSTAT

REMOVAL AND INSTALLATION

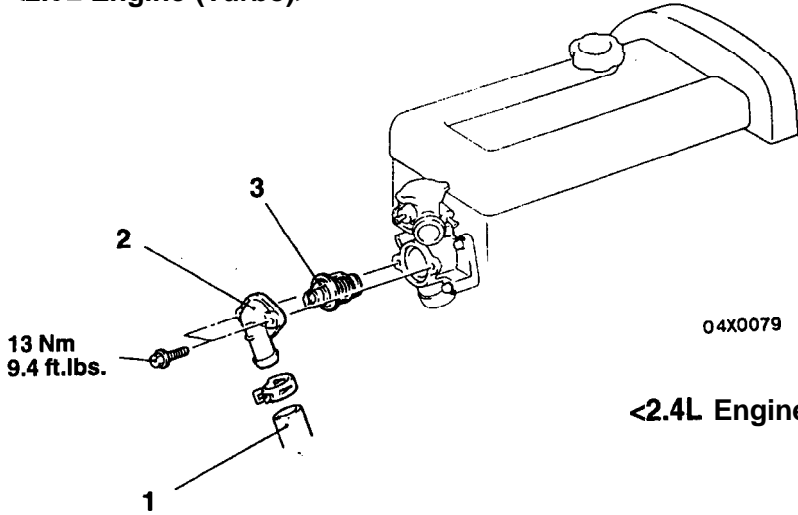
Pre-removal and Post-installation Operation

- Engine Coolant Draining and Supplying (Refer to GROUP 00 – Maintenance Service.)
- Air Hose(C) Removal and Installation <2.0L Engine (Turbo)> (Refer to GROUP 15 -Charge Air Cooler.)

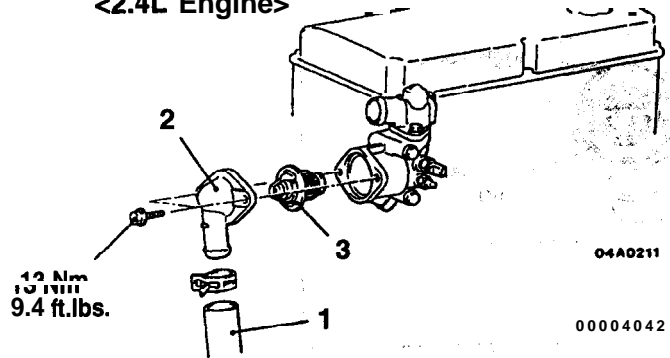
<2.0L Engine (Non-turbo)>



<2.0L Engine (Turbo)>

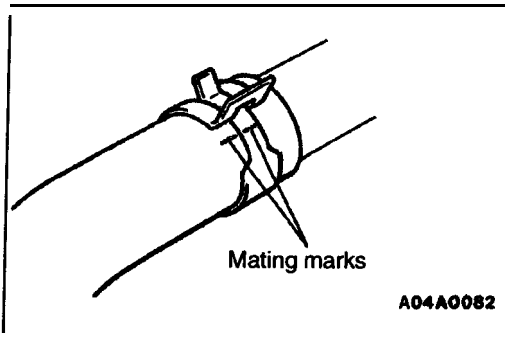


<2.4L Engine>



Removal steps

- | | |
|---|---|
| <p>◀A▶▶B▶ 1. Radiator upper hose connection <2.0L Engine (Non-turbo)> or radiator lower hose connection <2.0L Engine (Turbo) and 2.4L Engine></p> <p>2. Water outlet fitting <2.0L Engine (Non-turbo)> or water inlet fitting <2.0L Engine (Turbo) and 2.4L Engine></p> | <p>▶A▶ 3. Gasket <2.0L Engine (Non-turbo)></p> <p>4. Thermostat</p> |
|---|---|



REMOVAL SERVICE POINT

◀▶ **RADIATOR UPPER HOSE <2.0L Engine (Non-turbo)> OR RADIATOR LOWER ROSE <2.0L Engine (Turbo) and. 2.4L Engine> , DISCONNECTION**

Place a mating mark on the radiator hose and the hose clamp. Then, disconnect the radiator hose.

INSTALLATION SERVICE POINTS

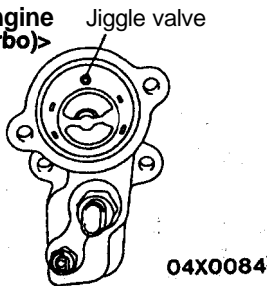
▶▶ **THERMOSTAT INSTALLATION**

Install the thermostat so that the jiggle valve is facing straight up and is aligned with the mark on the thermostat case as shown in the illustration.

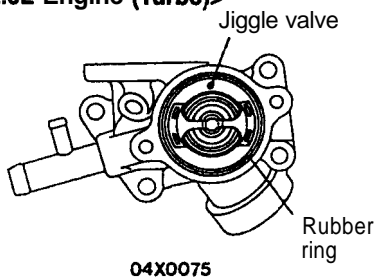
Caution

Make absolutely sure that no oil is adhering to the rubber ring of the thermostat. In addition, be careful not to fold over or scratch the rubber ring when inserting.

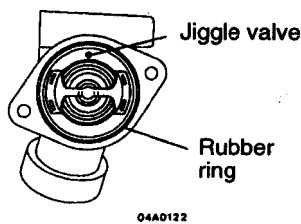
<2.0L Engine (Non-Turbo)>



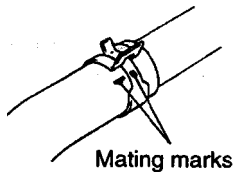
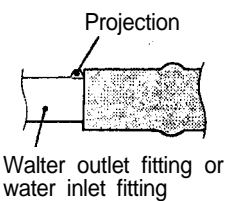
<2.0L Engine (Turbo)>



<2.4L Engine>

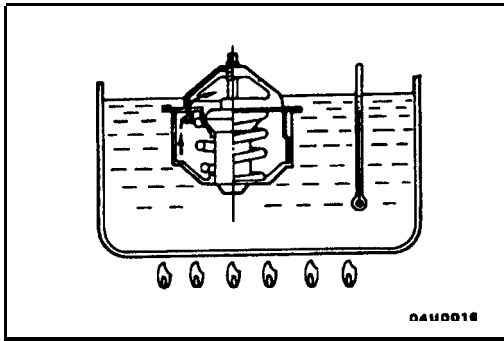


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▶▶ **RADIATOR UPPER HOSE <2.0L Engine (Non-Turbo)> OR RADIATOR LOWER HOSE <2.0L Engine (Turbo) and 2.4L Engine> CONNECTION**

- (1) Insert each hose as far as the projection of the water outlet fitting or water inlet fitting.
- (2) Align the mating marks on the radiator hose and hose clamp, and then connect the radiator hose.



INSPECTION

14100250107

THERMOSTAT CHECK

- Check that the valve closes tightly at room temperature.
- Check for defects or damage.
- Check for rust or other **contamination on the valve**. Remove, if any.
- Immerse thermostat in container of **hot water**. Stir to raise water temperature and check that the thermostat valve opening temperature and the water temperature with valve fully open [valve lift: 8 mm (.31 in.)] are at the standard value.

Standard value:

Valve opening temperature:

<2.0L Engine (Non-turbo)> 90.5°C (195°F)

<2.0L Engine (Turbo) and 2.4L Engine> 82°C (180°F)

Full-opening temperature:

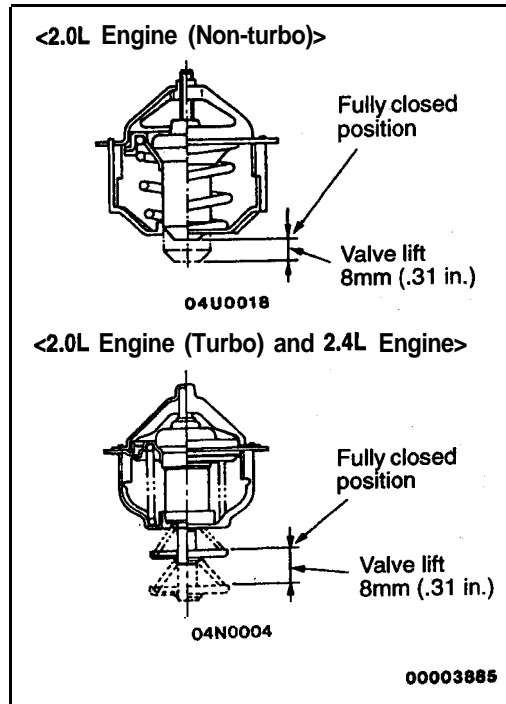
<2.0L Engine (Non-turbo)> 102°C (216°F)

<2.0L Engine (Turbo) and 2.4L Engine> 95°C (203°F)

NOTE

Measure valve height when fully closed. Calculate lift by measuring the height when fully open.

Replace the thermostat if it does not open properly, or does not have the correct valve lift.

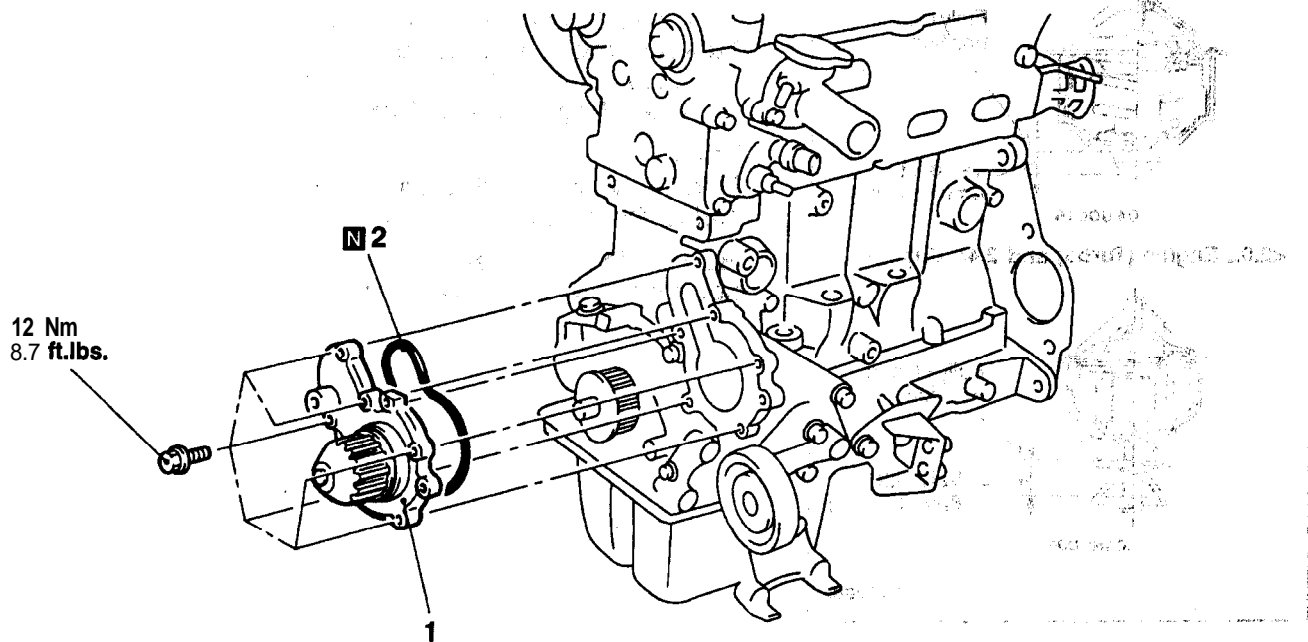


WATER PUMP <2.0L ENGINE (NON-TURBO)>

14100270158

REMOVAL AND INSTALLATION**Pre-removal and Post-Installation Operation**

- Engine Coolant Draining and Supplying (Refer to GROUP 00 – Maintenance Service.)
- Timing Belt Rear Cover Removal and Installation (Refer to GROUP 11D – Timing Belt.)

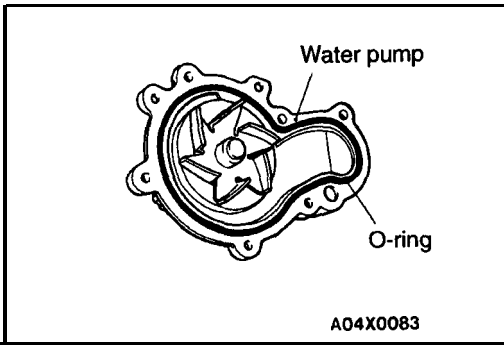


A04X0082

Removal steps

1. Water pump
2. O-ring



**INSTALLATION SERVICE POINT****▶◀ O-RING INSTALLATION**

Insert the O-ring to the **water pump groove**, and **coat the circumference** of the O-ring with water or **engine coolant**. By **coating** with water or engine coolant, the insertion to the **cylinder block** will become easier.

Caution

1. Do not allow engine oil or other grease to **adhere** to the O-ring.
2. When inserting the water pump, check that there is no sand, dirt, etc. on its inner surface.

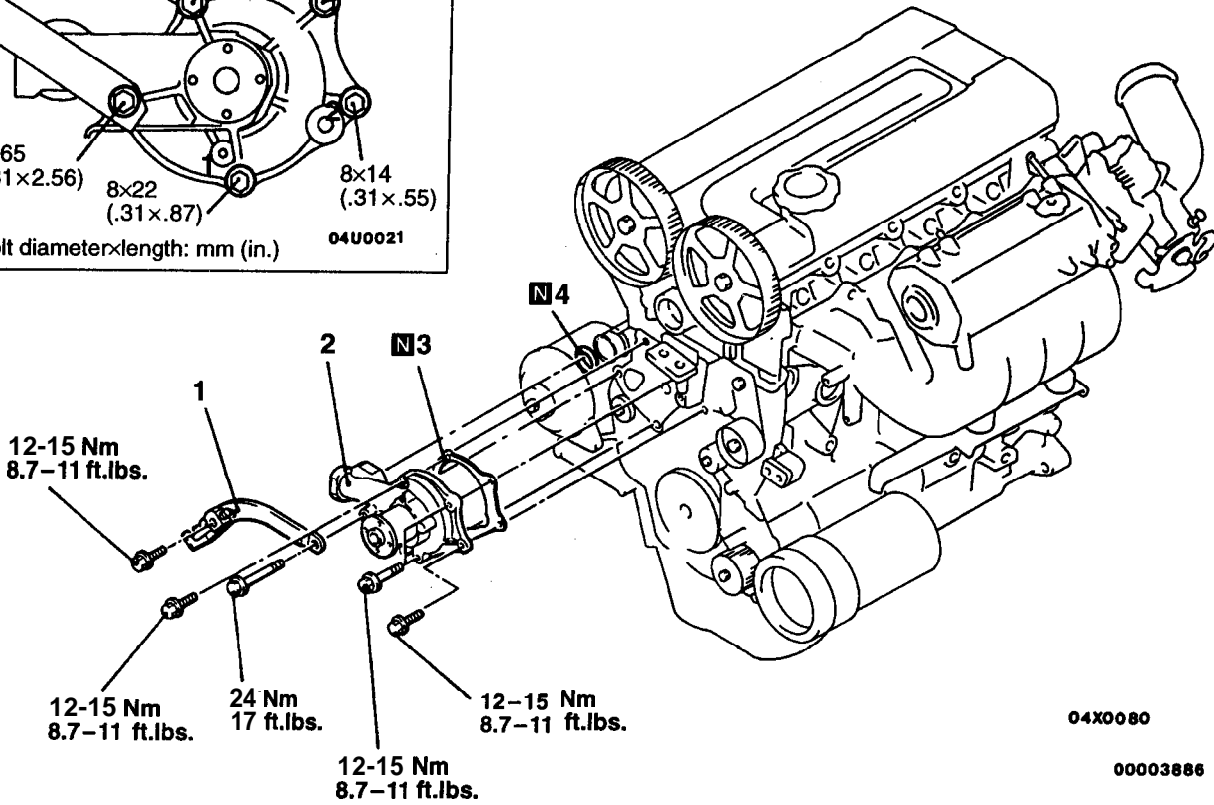
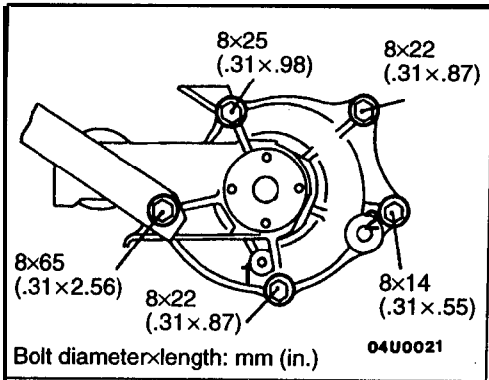
WATER PUMP <2.0L ENGINE (TURBO) AND 2.4L ENGINE>

14100270155.

REMOVAL AND INSTALLATION

Pm-removal and Post-installation Operation

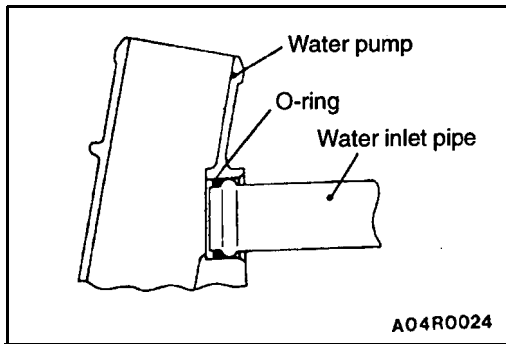
- Engine Coolant Draining and Supplying (Refer to GROUP 00 – Maintenance Service.)
- For Timing Belt Removal and Installation, Refer to the Following Groups:
GROUP 11A – Timing Belt.
GROUP 11E – Timing Belt.



Removal steps

1. Generator brace
2. Water pump
3. Water pump gasket
4. O-ring





INSTALLATION SERVICE POINT

▶◀ O-RING INSTALLATION

Insert the O-ring to the water inlet pipe, and coat the outer circumference of the O-ring with **water or engine coolant**. By coating with **Water** or engine coolant, the insertion to the water pump will become easier.

Caution

1. Do not allow engine **oil** or other **grease** to **adhere** to the O-ring.
2. When inserting the pipe, check that **there is** no **sand, dirt, etc.** on its inner surface.

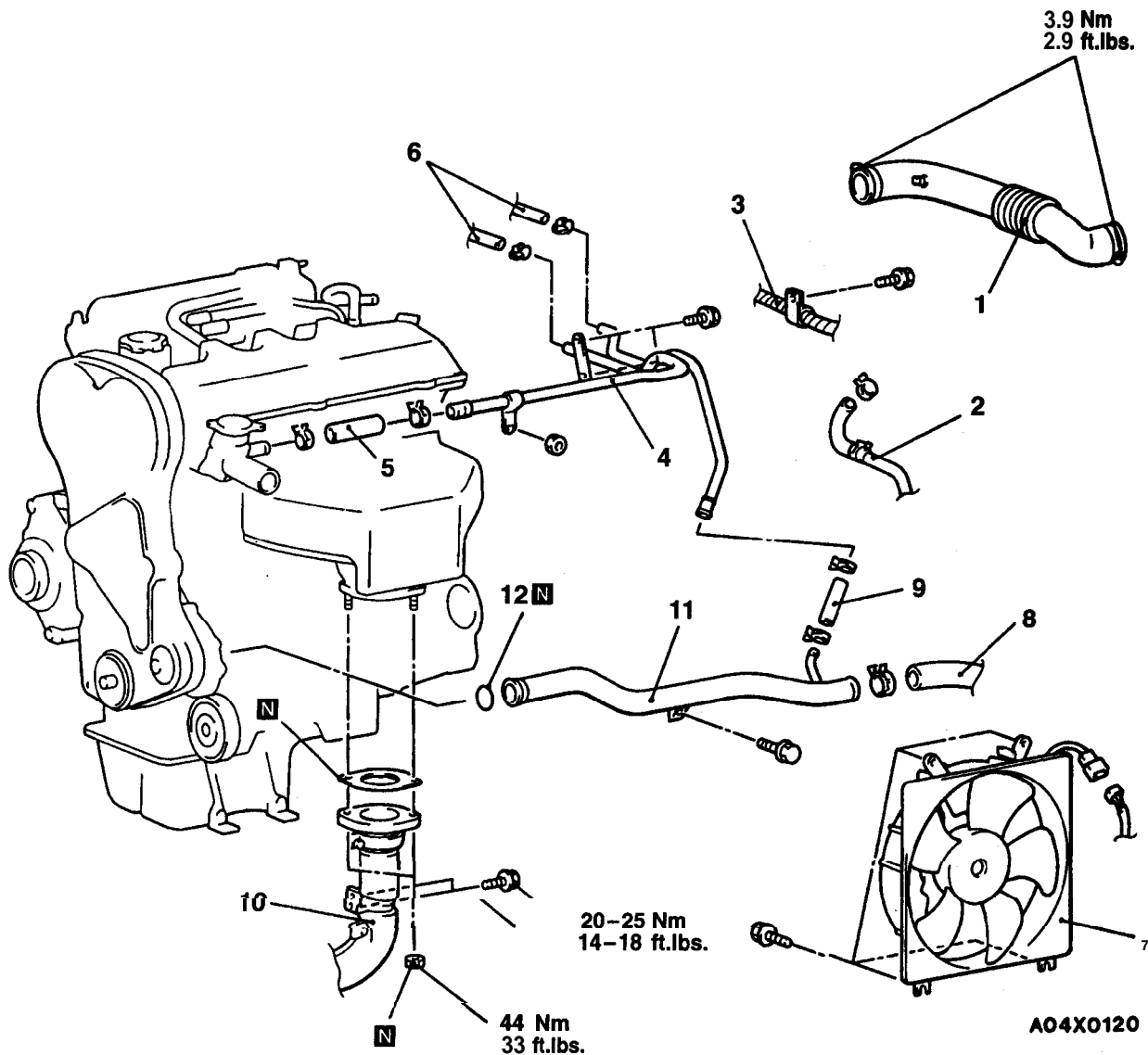
WATER HOSE AND WATER PIPE <2.0L ENGINE (NON-TURBO)>

-4100550115

REMOVAL AND INSTALLATION

Pre-removal and Post-installation Operation

- Engine Coolant Draining and Supplying (Refer to GROUP 00 - Maintenance Service.)
- Under Cover Removal and Installation (Refer to GROUP 42 - Under Cover.)



Removal steps

1. Air intake hose
2. Air hose connection
3. Control wiring harness connection
4. Water pipe assembly
5. Water hose
6. Heater hose connection

7. Radiator fan motor assembly <A/T>
8. Radiator lower hose connection
9. Water hose
10. Front exhaust pipe connection
11. Water inlet pipe assembly
12. O-ring

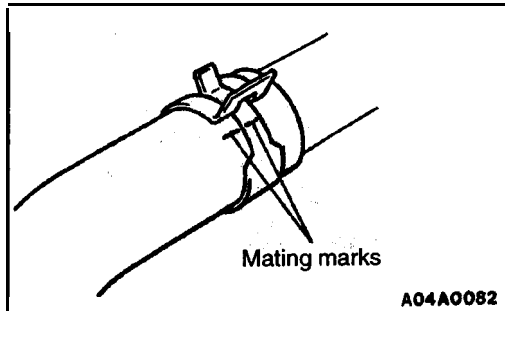


REMOVAL SERVICE POINTS.

◀A▶ HEATER HOSE DISCONNECTION

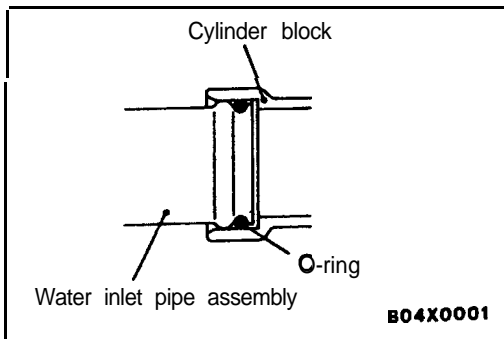
Caution

For M/T, cover the vehicle speed sensor with a shop towel before removing a heater hose, because the sensor is below the hoses.



◀B▶ RADIATOR LOWER HOSE DISCONNECTION

After making mating marks on the radiator hose and the hose clamp, disconnect the radiator hose.



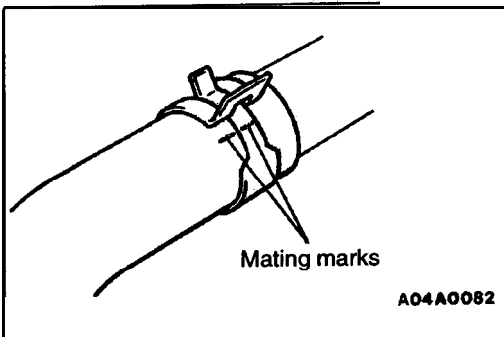
INSTALLATION SERVICE POINTS

▶A◀ O-RING INSTALLATION

Insert the O-ring to the water inlet pipe, and coat the outer circumference of the O-ring with water or engine coolant.

Caution

Do not allow engine oil or other grease to adhere to the O-ring.



▶B◀ RADIATOR LOWER HOSE CONNECTION

Align the mating marks on the radiator hose and hose clamp, and then connect the radiator hose.

INSPECTION

14100340071

WATER PIPE AND HOSE CHECK'

Check the water pipe and hose' for cracks, damage, clogs and replace them if necessary.

WATER HOSE AND WATER PIPE <2.0L ENGINE (TURBO) AND 2.4L ENGINE>

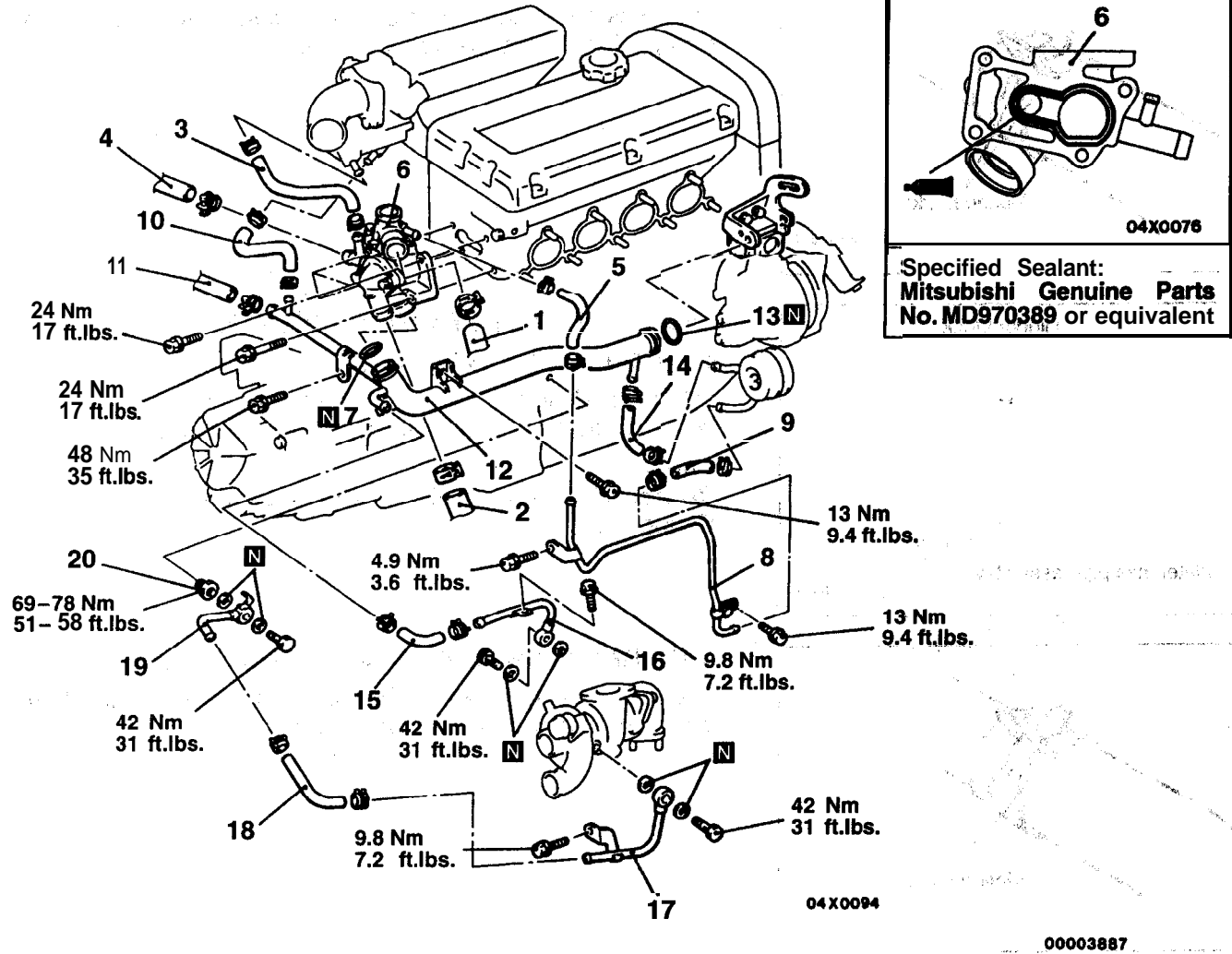
14100330245

REMOVAL AND INSTALLATION

<2.0L Engine (Turbo)>

Pre-removal and Post-installation Operation

- Engine Coolant Draining and Supplying (Refer to GROUP 00 – Maintenance Service.)
- Air Hose (C) Removal and Installation (Refer to GROUP 15 – Charge Air Cooler.)
- Turbocharger Removal and Installation (Refer to GROUP 15 – Exhaust Manifold.)



Removal steps

1. Radiator upper hose connection
2. Radiator lower hose connection
3. Water hose
4. Heater hose connection
5. Water hose



6. Thermostat case assembly
7. O-ring
8. Water pipe assembly
9. Water hose
10. Water hose

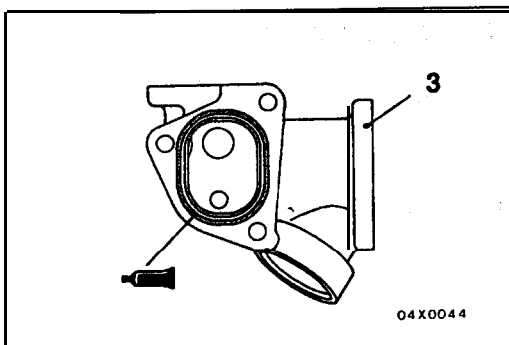
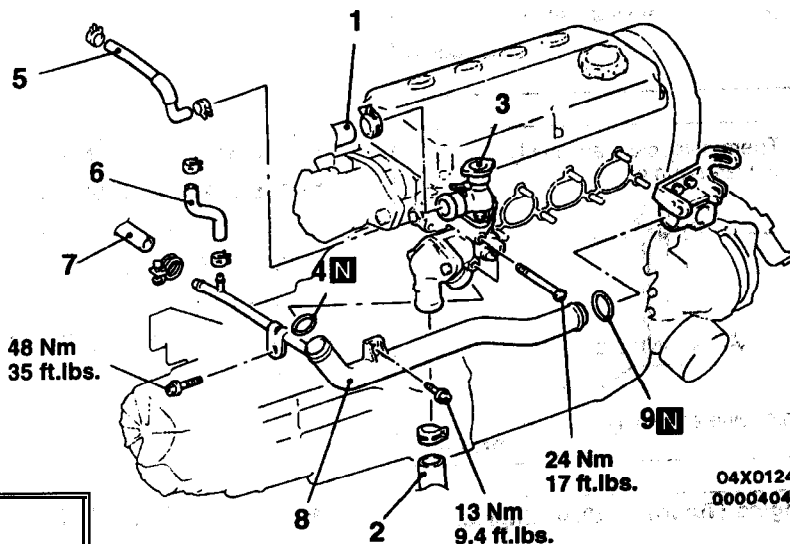


11. Heater hose connection
12. Water inlet pipe assembly
13. O-ring
14. Water hose
15. Water hose
16. Water pipe assembly (A)
17. Water pipe assembly (B)
18. Water hose
19. Water pipe assembly (C)
20. Joint

<2.4L Engine>

Pre-removal and Post-installation Operation*

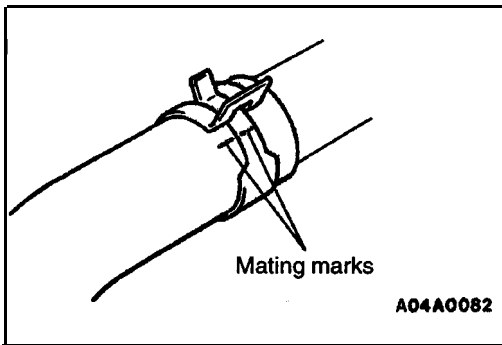
- (1) Engine Coolant Draining and Supplying (Refer to GROUP 00 – Maintenance Service.)
- (2) Air Cleaner Removal and Installation
- (3) Exhaust Manifold Removal and Installation (Refer to GROUP 15 – Exhaust Manifold.)



**Specified Sealant:
 Mitsubishi Genuine Part No.
 MD970389 or equivalent**

Removal steps

- ▶▶A▶▶C▶▶ 1. Radiator upper hose connection
- ▶▶A▶▶C▶▶ 2. Radiator lower hose connection
- ▶▶B▶▶ 3. Thermostat case assembly
- ▶▶A▶▶ 4. O-ring
- 5. Water hose
- 6. Water hose
- 7. Heater hose connection
- 8. Water inlet pipe assembly
- ▶▶A▶▶ 9. o-ring



REMOVAL SERVICE POINT

◀A▶ RADIATOR UPPER HOSE/RADIATOR LOWER HOSE DISCONNECTION

After making mating marks on the radiator hose and the hose clamp, disconnect the radiator hose.

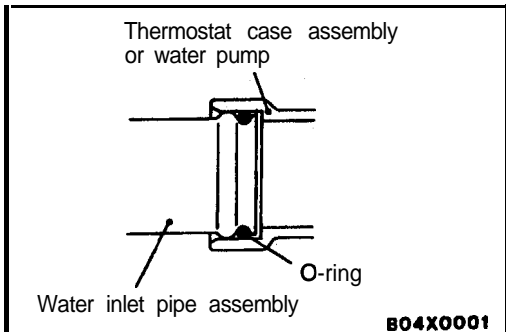
INSTALLATION SERVICE POINTS

▶A◀ O-RING INSTALLATION

Insert the O-ring to the water inlet pipe, and coat the outer circumference of the O-ring with water or engine coolant.

Caution

Do not allow engine oil or other grease to adhere to the O-ring.



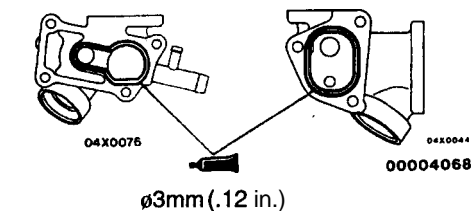
<2.0L Engine (Turbo)> <2.4L Engine>

▶B◀ THERMOSTAT CASE ASSEMBLY INSTALLATION

Squeeze out the sealant from the tube evenly and apply it so that there is not too much sealant and no places without sealant.

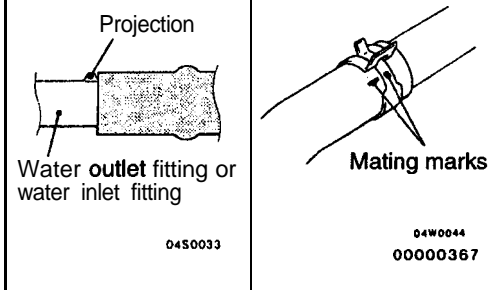
Specified Sealant:

Mitsubishi Genuine Parts No. MD970389 or equivalent



▶C◀ RADIATOR LOWER HOSE/RADIATOR UPPER HOSE CONNECTION

- (1) Insert each hose as far as the projection of the water outlet fitting or water inlet fitting.
- (2) Align the mating marks on the radiator hose and hose clamp, and then connect the radiator hose.



INSPECTION

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WATER PIPE AND HOSE CHECK

Check the water pipe and hose for cracks, damage, clogs and replace them if necessary.