



Technical Service Bulletin

SUBJECT:		No: TSB-17-14-002	
ENGINE COOLANT UPDATES – SERVICE MANUAL REVISION		DATE: October 2017	
		MODEL: 2014-17 Outlander	
CIRCULATE TO:	<input type="checkbox"/> GENERAL MANAGER	<input checked="" type="checkbox"/> PARTS MANAGER	<input checked="" type="checkbox"/> TECHNICIAN
<input checked="" type="checkbox"/> SERVICE ADVISOR	<input checked="" type="checkbox"/> SERVICE MANAGER	<input type="checkbox"/> WARRANTY PROCESSOR	<input type="checkbox"/> SALES MANAGER

PURPOSE

This TSB updates the General and Engine Cooling sections of the affected Service Manuals to update engine coolant capacities and replacement procedures.

AFFECTED VEHICLES

- 2014–2017 Outlander

AFFECTED SERVICE MANUALS

- 2014–2017 Outlander Service Manual, Group 00 – General
- 2014–2017 Outlander Service Manual, Group 14 – Engine Cooling



Please make the indicated changes to the 2014–2017 Outlander Service Manual, Group 00 – General
 → Recommended Lubricants and Lubricant Capacities Table.

Lubricant	Specifications	Remarks
Compressor refrigerant unit lubricant, each connection of refrigerant line	SUN PAG 56 or S10X	-

LUBRICANT CAPACITY TABLE

2.4 L Engine	6.0 (6.34)	<Correct>
3.0 L Engine	9.0 (9.51)	

Description	Specification			
Engine oil dm ³ (qt)	Total quantity	4.6 (4.86) <2.4 L Engine> 4.3 (4.54) <3.0 L Engine>		
	Oil filter	0.3 (0.32)		
Engine coolant [includes 0.65 dm ³ (0.69 qt) in the radiator condenser tank] dm ³ (qt)	Automatic transaxle	10.0 (10.57)	<Incorrect>	
	CVT	8.0 (8.45)		
Fuel tank dm ³ (gal)	FWD	63 (16.6)		
	AWD	60 (15.8)		
Transmission (CVT) fluid dm ³ (qt)	7.1 (7.5)			
Transmission (6A/T) fluid dm ³ (qt)	8.2 (8.7)			
Transfer oil dm ³ (qt) <AWD>	Vehicles without S-AWC	0.47 (0.50)		
	Vehicles with S-AWC	0.45 (0.48)		
Rear differential gear oil dm ³ (qt)	0.4 (0.42)			
Driveshaft (inside of knuckle bore) grease g (oz)	As required [1.0 – 1.5 (0.04 – 0.05)]			
Driveshaft (PTJ boot, EBJ boot) grease g (oz)	PTJ boot grease	4J1-FWD	LH	210 ± 10 (7.4 ± 0.3)
			RH	210 ± 10 (7.4 ± 0.3)
		4J1-AWD	LH	200 ± 10 (7.1 ± 0.3)
			RH	210 ± 10 (7.4 ± 0.3)
		6B3-FWD	LH	245 ± 10 (7.1 ± 0.3)
			RH	255 ± 10 (7.4 ± 0.3)
	6B3-AWD	LH	200 ± 10 (7.1 ± 0.3)	
		RH	210 ± 10 (7.4 ± 0.3)	
	EBJ boot grease	4J1	120 ± 10 (4.2 ± 0.3)	
		6B3	120 ± 10 (4.2 ± 0.3)	
Driveshaft (ETJ boot) grease g (oz)	ETJ boot grease	75 ± 10 (2.6 ± 0.4)		
Brakes fluid dm ³ (qt)	As required			
Wiper motor link rod grease g (oz)	As required			
Air conditioning compressor refrigerant unit oil dm ³ (qt)	Compressor refrigerant unit	70 + 20 (target value: 70)		
	Each connection of refrigerant line	As required		

Please make the indicated changes to the 2014–2017 Outlander Service Manual, Group 00 – General
–> Maintenance Service –> Engine Coolant –> Change.

ENGINE COOLANT

CHANGE <2.4L ENGINE> <Added>

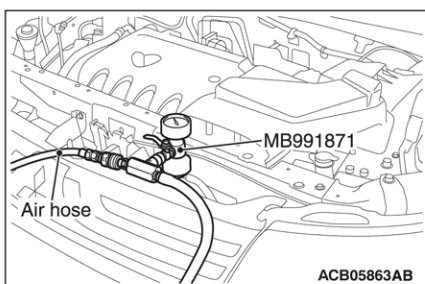
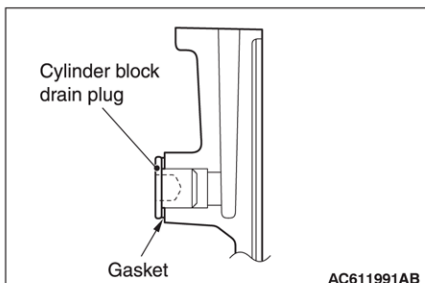
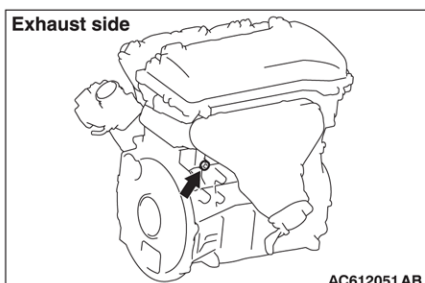
Check the cooling system parts such as the radiator, heater and oil cooler hoses, thermostat and their connections for leakage and damage.

1. Remove the engine room under cover front (Refer to GROUP 51 – Under Cover – Removal and Installation).

⚠ WARNING

When removing the radiator cap, use care to avoid contact with hot engine coolant or steam. Place a shop towel over the radiator cap and turn the radiator cap counterclockwise a little to let the pressure escape through the vinyl tube. After relieving the steam pressure, remove the radiator cap by slowly turning it counterclockwise.

2. Drain the water from the radiator, heater core and engine after unplugging the radiator drain plug and removing the radiator cap.
3. Drain the water in the water jacket by unplugging the drain plug of the cylinder block.
4. Remove the radiator condenser tank and drain the coolant.



5. Replace the cylinder block drain plug gasket, and tighten the drain plug to the specified torque.

Tightening torque: 39 ± 3 N·m (29 ± 2 ft·lb)

6. Securely tighten the radiator drain plug.
7. Reinstall the radiator condenser tank.

⚠ CAUTION

Do not use alcohol or methanol anti-freeze or any engine coolants mixed with alcohol or methanol anti-freeze. The use of an improper anti-freeze can cause corrosion of the aluminum components.

8. Use special tool MB991871 to refill the engine coolant up to the top of the radiator port.

Recommended antifreeze: MITSUBISHI MOTORS GENUINE SUPER LONG LIFE COOLANT PREMIUM or equivalent*

NOTE: *similar high quality ethylene glycol based non-silicate, non-amine, non-nitrate and non-borate coolant with long life hybrid organic acid technology.

Quantity: ~~8.0 dm³ (8.5 quarts)~~ <Incorrect>

↑

6.0 dm³ (6.34 quarts) <Correct>

[includes 0.65 dm³ (0.69 quarts) in the radiator condenser tank]

NOTE: For how to use special tool (MB991871), refer to its manufacturer's instructions.

9. Tighten the radiator cap securely.
10. Remove the radiator condenser tank cap, and add the engine coolant up to the "FULL" line.
11. Turn the A/C switch to OFF position to start the engine and warm up until the cooling fan operates.

NOTE: This work is to open the thermostat fully.

12. Rev the engine several times and then stop it. Check that there are no coolant leaks.
13. Remove the radiator cap with the engine cool, and then refill the engine coolant up to the top of the radiator port.
14. Tighten the radiator cap securely.

⚠ CAUTION

Do not overfill the radiator condenser tank.

15. Remove the radiator condenser tank cap, and add the engine coolant up to the "FULL" line.
16. Install the engine room under cover front (Refer to GROUP 51 – Under Cover – Removal and Installation).



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<Added>

CHANGE <3.0 L ENGINE>

1. Remove the engine room under cover front B. (Refer to GROUP 51 – Under Cover.)

⚠ WARNING

Hot steam may escape when the radiator cap is opened. Open with caution. Place rag over the cap and twist it anticlockwise slightly to release the pressure. Wait until the hot steam is released, and then remove the cap by turning it anticlockwise gradually.

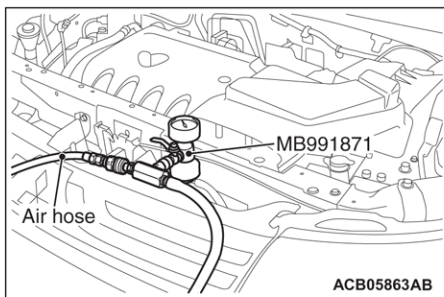
2. Drain the water from the radiator, heater core and engine after unplugging the radiator drain plug and removing the radiator cap.
3. Drain the coolant after unplugging the radiator condenser tank.
4. After draining the coolant, clean the path of the coolant by injecting water into the radiator from the radiator cap area.
5. Securely tighten the drain plug of the radiator.
6. Assemble the radiator condenser tank.
7. Using the LLC changer (Special tool: MB991871), refill the engine coolant up to the top of the radiator port.

Recommended antifreeze: MITSUBISHI MOTORS GENUINE SUPER LONG LIFE COOLANT PREMIUM or equivalent*

NOTE: *similar high quality ethylene glycol based non-silicate, non-amine, non-nitrate and non-borate coolant with long life hybrid organic acid technology.

**Quantity: 9.0 dm³ (9.51 quarts)
(Including 0.65 dm³ [0.69 quarts] in the radiator condense tank)**

8. Tighten the radiator cap securely.
9. Remove the radiator condenser tank cap, and add the engine coolant up to the "FULL" line of the level gauge.
10. Turn OFF the air conditioning switch, start the engine to warm it up until the cooling fan works.
NOTE: This is necessary to open the thermostat fully.
11. Rev the engine several times and then stop it. Check that there are no coolant leaks.
12. Remove the radiator cap with the engine cool, and then refill the engine coolant up to the top of the radiator port.
13. Tighten the radiator cap securely.
14. Remove the radiator condenser tank cap, and add the engine coolant up to the "FULL" line of the level gauge.
15. Install the engine compartment under cover front B. (Refer to GROUP 51 – Under Cove.)



Please make the indicated changes to the 2014–2017 Outlander Service Manual, Group 14 – Engine Cooling → Coolant.

COOLANT

Item		Recommended antifreeze	Quantity dm ³ (qt)
Engine coolant [includes 0.65 dm ³ (0.69 qt) in the radiator condenser tank]	2.4 L Engine	Mitsubishi genuine Dia-Queen Super Long Life Coolant or equivalent* <Incorrect>	8.0 (8.45)
	3.0 L Engine		10.0 (10.57)

NOTE: *similar high quality ethylene glycol based non-silicate, non-amine, non-nitrate and non-borate coolant with long life hybrid organic acid technology.

6.0 (6.34)

9.0 (9.51)

<Correct>

Please make the indicated changes to the 2014–2017 Outlander Service Manual, Group 14 – Engine Cooling → On–Vehicle Service → Engine Coolant Replacement <2.4L Engine>.

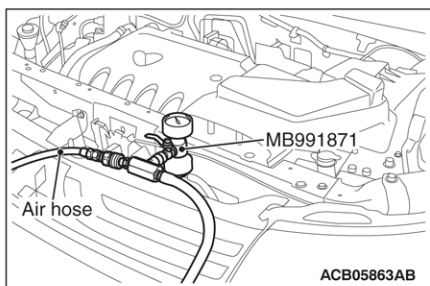
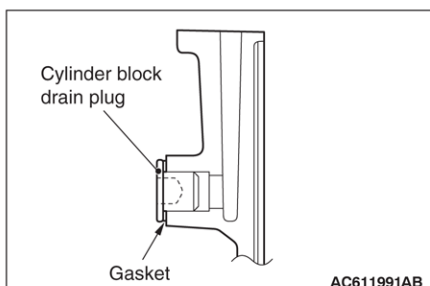
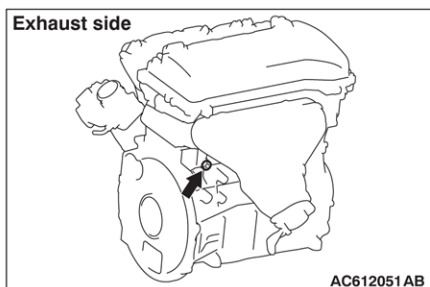
ENGINE COOLANT REPLACEMENT <2.4 L ENGINE>

1. Remove the engine room under cover front (Refer to GROUP 51 – Under Cover – Removal and Installation).

⚠ WARNING

When removing the radiator cap, use care to avoid contact with hot engine coolant or steam. Place a shop towel over the radiator cap and turn the radiator cap counterclockwise a little to let the pressure escape through the vinyl tube. After relieving the steam pressure, remove the radiator cap by slowly turning it counterclockwise.

2. Drain the water from the radiator, heater core and engine after unplugging the radiator drain plug and removing the radiator cap.
3. Drain the water in the water jacket by unplugging the drain plug of the cylinder block.
4. Remove the radiator condenser tank and drain the coolant.



5. Replace the cylinder block drain plug gasket, and tighten the drain plug to the specified torque.

Tightening torque: 39 ± 3 N·m (29 ± 2 ft-lb)

6. Securely tighten the radiator drain plug.
7. Reinstall the radiator condenser tank.

⚠ CAUTION

Do not use alcohol or methanol anti-freeze or any engine coolants mixed with alcohol or methanol anti-freeze. The use of an improper anti-freeze can cause corrosion of the aluminum components.

8. Use special tool LLC changer (MB991871) to refill the engine coolant up to the top of the radiator port.

Recommended antifreeze: MITSUBISHI MOTORS GENUINE SUPER LONG LIFE COOLANT PREMIUM or equivalent*

6.0 dm³ (6.34 quarts) <Correct>

NOTE: *similar high quality ethylene glycol based non-silicate, non-amine, non-nitrate and non-borate coolant with long life hybrid organic acid technology.

Quantity: 8.0 L (8.45 qt) <Incorrect>

(including 0.65 L [0.69 qt] in the radiator condenser tank) <Incorrect>

NOTE: For how to use special tool (MB991871), refer to its manufacturer's instructions.

9. Tighten the radiator cap securely.

dm³ [0.69 quarts] <Correct>

Please make the indicated changes to the 2014–2017 Outlander Service Manual, Group 14 – Engine Cooling –> On–Vehicle Service –> Engine Coolant Replacement <3.0L Engine>.

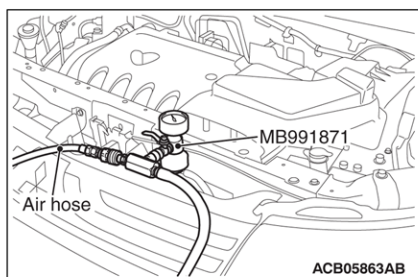
ENGINE COOLANT REPLACEMENT <3.0 L ENGINE>

1. Remove the engine room under cover front B. (Refer to GROUP 51 – Under Cover.)

⚠ WARNING

Hot steam may escape when the radiator cap is opened. Open with caution. Place rag over the cap and twist it anticlockwise slightly to release the pressure. Wait until the hot steam is released, and then remove the cap by turning it anticlockwise gradually.

2. Drain the water from the radiator, heater core and engine after unplugging the radiator drain plug and removing the radiator cap.
3. Drain the coolant after unplugging the radiator condenser tank.
4. After draining the coolant, clean the path of the coolant by injecting water into the radiator from the radiator cap area.
5. Securely tighten the drain plug of the radiator.
6. Assemble the radiator condenser tank.



<Incorrect>

7. Using the LLC changer (Special tool: MB991870), refill the engine coolant up to the top of the radiator port.

Coolant: Mitsubishi genuine Dia-Queen Super Long Life Coolant

Quantity: Approximately 10.0 dm³ (10.57 qt)

(Including 0.65 dm³ [0.69 qt] in the radiator condense tank)

8. Tighten the radiator cap securely.
9. Remove the radiator condenser tank cap, and add the engine coolant up to the "FULL" line of the level gauge.
10. Turn OFF the air conditioning switch, start the engine to warm it up until the cooling fan works.
NOTE: This is necessary to open the thermostat fully.
11. Rev the engine several times and then stop it. Check that there are no coolant leaks.
12. Remove the radiator cap with the engine cool, and then refill the engine coolant up to the top of the radiator port.
13. Tighten the radiator cap securely.
14. Remove the radiator condenser tank cap, and add the engine coolant up to the "FULL" line of the level gauge.
15. Install the engine compartment under cover front B. (Refer to GROUP 51 – Under Cover.)

<Correct>

7. Using the LLC changer (Special tool: MB991871), refill the engine coolant up to the top of the radiator port.

Recommended antifreeze: MITSUBISHI MOTORS GENUINE SUPER LONG LIFE COOLANT PREMIUM or equivalent*

NOTE: *similar high quality ethylene glycol based non-silicate, non-amine, non-nitrate and non-borate coolant with long life hybrid organic acid technology.

Quantity: 9.0 dm³ (9.51 quarts)

(Including 0.65 dm³ [0.69 quarts] in the radiator condense tank)