



# Technical Service Bulletin

SUBJECT:			No: <b>TSB-19-14-002</b>
<b>CORRECTIONS TO ON-VEHICLE SERVICE &amp; COOLANT REPLACEMENT PROCEDURE - SMR</b>			DATE: <b>July 2019</b>
			MODEL: <b>2014-17 Outlander</b>
<b>CIRCULATE TO:</b>	<input type="checkbox"/> GENERAL MANAGER	<input type="checkbox"/> PARTS MANAGER	<input checked="" type="checkbox"/> TECHNICIAN
<input checked="" type="checkbox"/> SERVICE ADVISOR	<input checked="" type="checkbox"/> SERVICE MANAGER	<input checked="" type="checkbox"/> WARRANTY PROCESSOR	<input type="checkbox"/> SALES MANAGER

## PURPOSE

This TSB updates the Engine Cooling section of the affected Service Manuals, to correct the on-vehicle service information and the coolant replacement procedure.

## AFFECTED VEHICLES

- 2014 - 2017 Outlander

## AFFECTED SERVICE MANUAL

- 2014 - 2017 Outlander Service Manual, Group 14-Engine Cooling



Please make the indicated changes to the 2014 - 2017 Outlander Service Manual, Group 14-Engine Cooling -> Service Specifications.

### COOLANT

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

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.

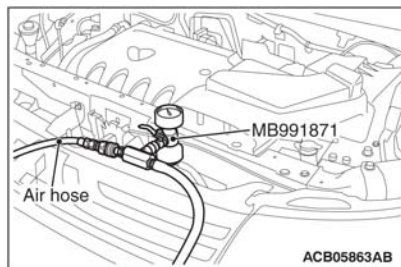
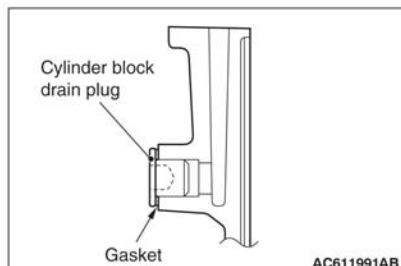
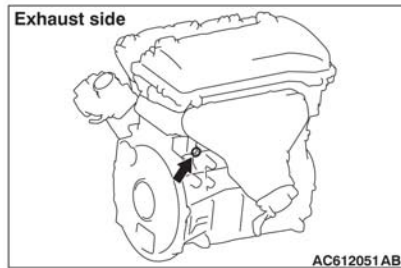
### ENGINE COOLANT REPLACEMENT <2.4 L ENGINE>

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 dm<sup>3</sup> (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)~~ 6.0 dm<sup>3</sup> (6.34 quarts) **<Incorrect>** (including ~~0.65 L (0.69 qt)~~ 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.

dm<sup>3</sup> [0.69 quarts] **<Correct>**

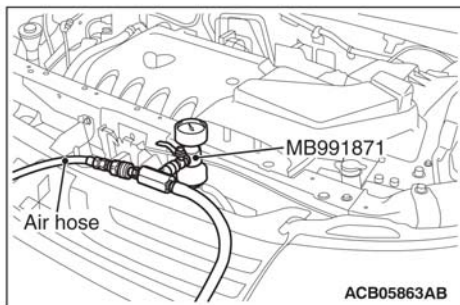
## ENGINE COOLANT REPLACEMENT <3.0 L ENGINE>

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.



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 dm<sup>3</sup> (10.57 qt)**  
**(Including 0.65 dm<sup>3</sup> [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 dm<sup>3</sup> (9.51 quarts)  
(Including 0.65 dm<sup>3</sup> [0.69 quarts] in the radiator condense tank)