

Technical Service Bulletin

SUBJECT:			No:	TSB-23-55-006
A/C COMPRESSOR OIL REFILL PROCEDURE – SERVICE MANUAL REVISION				October 2023
				MODEL: See below
CIRCULATE TO:	[] GENERAL MANAGER	[X] PARTS MANAGER [[X] TECHNICIAN
[X] SERVICE ADVISOR	[X] SERVICE MANAGER	[X] WARRANTY PROCESSOR		[] SALES MANAGER

PURPOSE

This TSB provides revisions to the procedure for the oil refill amount of the A/C compressor section in the applicable Service Manual.

AFFECTED VEHICLES

2018-2020 Outlander Plug-in Hybrid

AFFECTED SERVICE MANUAL

• 2018-2020 Outlander Plug-in Hybrid Service Manual

PROCEDURE

Please use the chart below to replace the pages found in the affected Service Manual:

2018-2020 Outlander Plug-in Hybrid: Group 55, Heather, Air Conditioning and Ventilation, On-Vehicle Service

Applicable Manual	Pub. No.	Applicable Title	Contents
2018 OUTLANDER PHEV Service Manual	MSCD-027B-2018	REFILLING OF OIL IN THE A/C SYSTEM	Attached sheet 4
2019 OUTLANDER PHEV Service Manual	MSCD-027B-2019		Attached sheet 5
2020 OUTLANDER PHEV Service Manual	MSCD-027B-2020		Attached sheet 6



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REFRIGERANT LEVEL CHECK, DRAINING AND CHARGING

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↑ CAUTION

- When refrigerant is charged, use the special tools for the EV24AN5 compressor to fill up the refrigerant, because it is different from the normal compressor oil. (If the normal compressor oil is mixed, damage may be resulted in.)
- For the compressor oil and installation oil for the piping O-ring, use the oil MA68EV or Ze-GLES RB68 dedicated for the A/C compressor EV24AN5. If an oil other then the MA68EV or Ze-GLES RB68 is used, even if it is only a small amount, the electric insulation is considerably deteriorated and a leakage may occur.
- Never charge the refrigerant excessively, or the A/C system may be damaged.
- Always keep away thermal ignition sources, electrical sparks or flame impact from the refrigerant. In the presence of flame, refrigerant forms a poisonous gas. Keep the area well ventilated.
- Recover the refrigerant according to the specified procedure. Never release it into the atmosphere.

NOTE: When you have evacuated the system before filling with refrigerant, "No. B103A: Refrigerant pressure sensor system (short to power supply)" and "No. B103B: Refrigerant pressure sensor system (open or short to ground) will be set. On completion, erase these diagnostic trouble codes.

Drain the refrigerant by using MOR405JH-type flon recovery equipment (part number: MZ204413), and fill by the specified amount.

REFILLING OF OIL IN THE A/C SYSTEM

Too little oil will provide inadequate compressor lubrication and cause a compressor failure. Too much oil will increase discharge air temperature.

When a compressor is installed at the factory, it contains 70 mL (2.4 fl.oz) of compressor oil. While the A/C system is in operation, the oil is carried through the entire system by the refrigerant. Some of this oil will be trapped and retained in various parts of the system.

When the following system components are changed, it is necessary to add oil to the system to replace the oil being removed with the component.

Compressor oil: MA68EV or Ze-GLES RB68 Quantity

Evaporator: 25 ml (0.8 fl.oz) < Incorrect>

Condenser: 15 mL (0.5 fl.oz) Each piping: 5 mL (0.2 fl.oz)

Evaporator in the heater: 25 mL (0.8 fl.oz)
Evaporator in the main drive lithium-ion battery: 25 mL (0.8 fl.oz)

<Correct>

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HEATER, AIR CONDITIONING AND VENTILATION ON-VEHICLE SERVICE

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