SERVICE BULLETIN

MITSUBISHI MOTORS

GLOBAL AFTER SALES OFFICE, MITSUBISHI MOTORS CORPORATION

PURPOSE : CORRECTION	ISSUE NO. : MSB-15E55-501	DATE : 2015-11-23
SUBJECT : Error in writing of the special tools recommended for the exchange of refrigerant R1234yf		<DESTINATION/MODEL> (EU) <M/Y> 13-16
GROUP : Gr:55(Heater & Air Conditioner)		MIRAGE/SPACE STAR(A00A) ATTRAGE(A10A)

1. Description :

Please refer to the attached document for the correction of the error in writing existing in the applicable service manual.

2. Affected service manuals :

Please refer to the attached document (Attached sheet 1)

3. About the details :

Please refer to the attached document (Attached sheets 2-5)

Attached sheet 1

<MIRAGE/SPACE STAR> for EU

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2013 MIRAGE/ SPACE STAR Workshop manual	CA0E13E1-CD (ENG) CA0F13E1-CD (FRE) CA0G13E1-CD (GER) CA0S13E1-CD (SPA) CA0I13E1-CD (ITA)	Recommended tool (M559-20-020-16000-01)	Attached sheet 2,3
		Refrigerant level check, draining and charging (M559-20-010-34500-01)	Attached sheet 5
2014 MIRAGE/ SPACE STAR Workshop manual	CA0E14E1-CD (ENG) CA0F14E1-CD (FRE) CA0G14E1-CD (GER) CA0S14E1-CD (SPA) CA0I14E1-CD (ITA)	Recommended tool (M559-20-020-16000-01)	Attached sheet 2,3
		Refrigerant level check, draining and charging (M559-20-010-34500-01)	Attached sheet 5
2015 MIRAGE/ SPACE STAR Workshop manual	CA0E15E1-CD (ENG) CA0F15E1-CD (FRE) CA0G15E1-CD (GER) CA0S15E1-CD (SPA) CA0I15E1-CD (ITA)	Recommended tool (M559-20-020-16001-01)	Attached sheet 2,3
		Refrigerant level check, draining and charging (M559-20-010-34500-01)	Attached sheet 5
2015.5 MIRAGE/ SPACE STAR Workshop manual	CA0E15E2-CD (ENG) CA0F15E2-CD (FRE) CA0G15E2-CD (GER) CA0S15E2-CD (SPA) CA0I15E2-CD (ITA)	Recommended tool (M559-20-020-16001-01)	Attached sheet 2,3
		Refrigerant level check, draining and charging (M559-20-010-34500-01)	Attached sheet 5
2016 MIRAGE/ SPACE STAR Workshop manual	CA0E16E1-CD (ENG) CA0F16E1-CD (FRE) CA0G16E1-CD (GER) CA0S16E1-CD (SPA) CA0I16E1-CD (ITA)	Added after check at ECU terminal (M552-01-031-97301-01)	Attached sheet 4
		Refrigerant level check, draining and charging (M559-20-010-34500-01)	Attached sheet 5

<ATRAGE> for EU

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2014 ATRAGE Workshop manual	CA1E14E1-CD (ENG) CA1F14E1-CD (FRE) CA1G14E1-CD (GER) CA1S14E1-CD (SPA) CA1I14E1-CD (ITA)	Recommended tool (M559-20-020-16001-01)	Attached sheet 2,3
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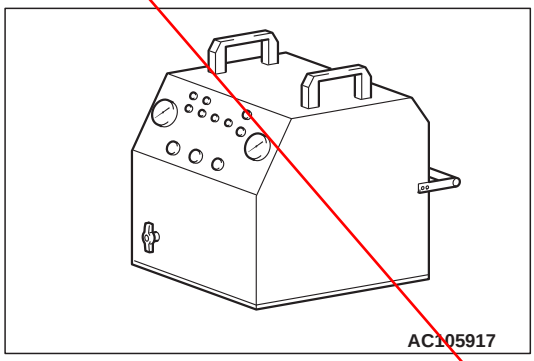
Attached sheet 2

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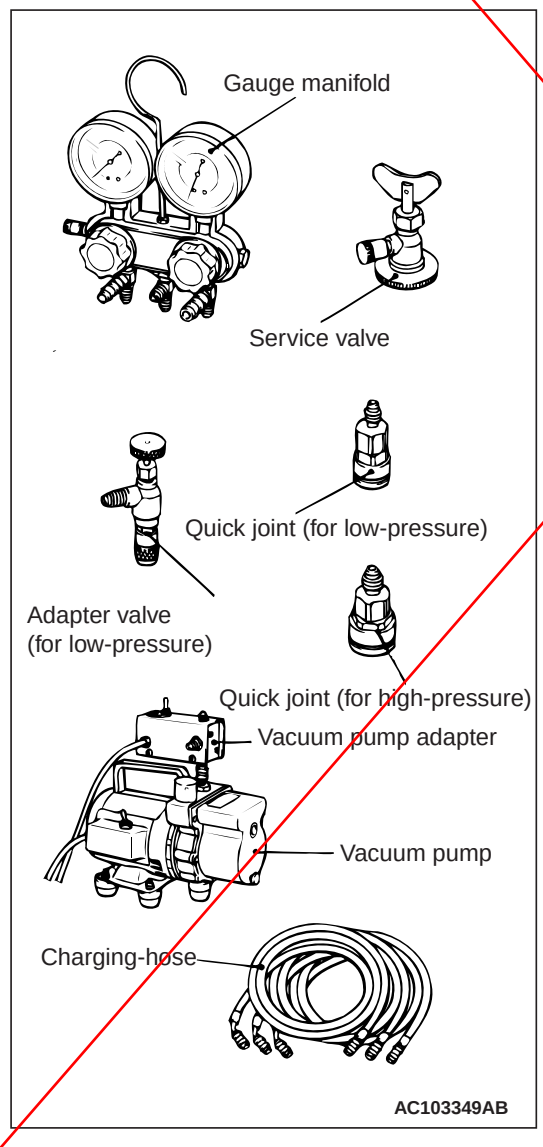
RECOMMENDED TOOL

M1559200200160

RECOMMEDED TOOL FOR REFRIGERANT CHARGING



1. To drain and charge the refrigerant, it is recommended that the following recovery equipment is used.
   - -type refrigerant recovery equipment (part number: MZ999999)
     Follow the recovery equipment manufacturer's instructions on draining and charging the refrigerant.



2. The following commercial tools are recommended for charging the refrigerant and measuring the refrigerant pressure.
   - Gas charging set [part No. (R1234yfa)]
   - Gas charging set case (part No. -2)
   - Gauge manifold (part No. -1)
   - Service valve (part No.)
   - Adapter valve (part No. -3)

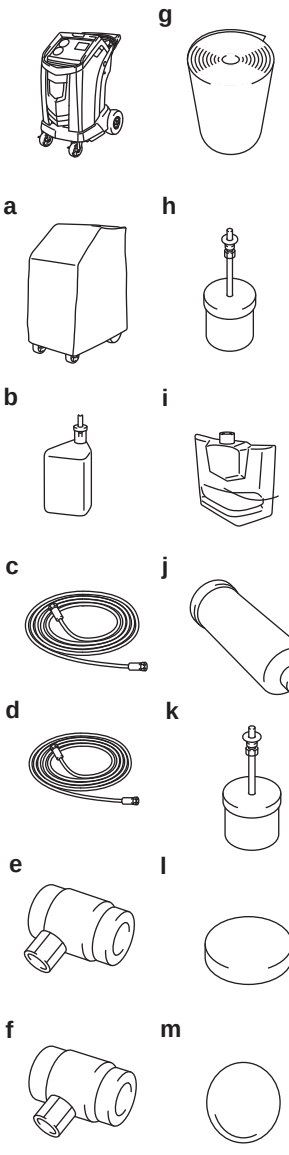
     NOTE: Tightening the adapter valve handle (turning clock-wise) opens the valve, and loosening it (turning anticlock-wise) closes the valve.
   - Quick joint (for low-pressure) (part No. L)
   - Quick joint (for high-pressure) (part No. H)
   - Charging hose (red - part No. -1)
   - Charging hose (blue - part No. -2)
   - Charging hose (yellow - part No. -3)
   - Vacuum pump (part No.)
   - Vacuum pump adapter (part No.)

Insert the attached sheet 3

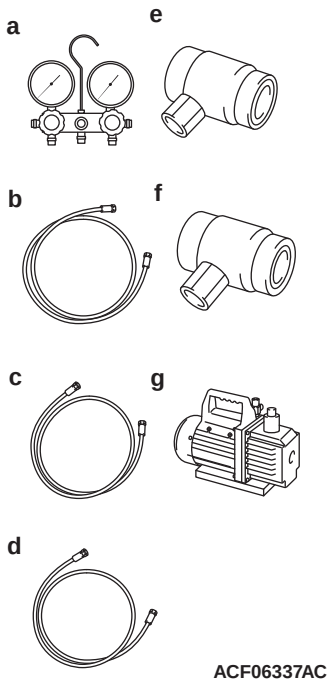
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RECOMMENDED TOOL

NOTE: For how to use a recommended tool, refer to the instruction supplied with it.

Tool	Number	Name	Use
 ACF06083AB	MB992950 a. MB992960 b. MB992961 c. MB992963 d. MB992964 e. MB992965 f. MB992966 g. MB992968 h. MB992969 i. MB992970 j. MB992972 k. MB992973 l. MB992974 m. MB992975 n. MB992962 o. MB992967 p. NB992971	Refrigerant recovery & recharge unit a. Cover b. Vacuum pump oil c. Hose (A) d. Hose (B) e. High side coupler f. Low side coupler g. Printer paper h. Oil inject bottle i. Oil drain bottle j. Filter k. Dye inject bottle l. Bottle cap m. Calibration weight n. Vacuum pump oil set o. Coupler set p. Maintenance kit	Discharging and recharging refrigerant

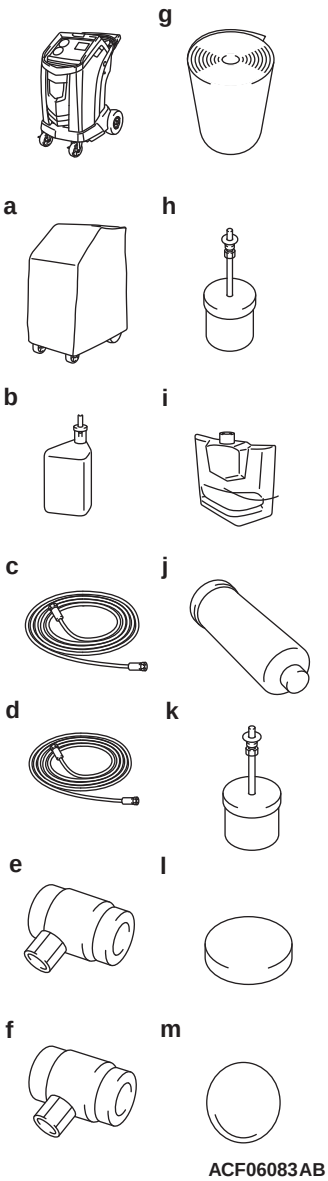
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Tool	Number	Name	Use
	MB992951 a. MB992952 b. MB992953 c. MB992954 d. MB992955 e. MB992965 f. MB992966 g. MB992958	Refrigerant charge set a. Manifold gauge b. Hose (A) c. Hose (B) d. Hose (C) e. High side coupler f. Low side coupler g. Vacuum pump	Charging refrigerant

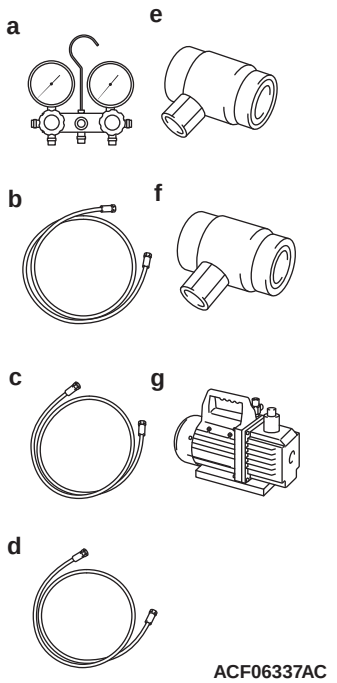
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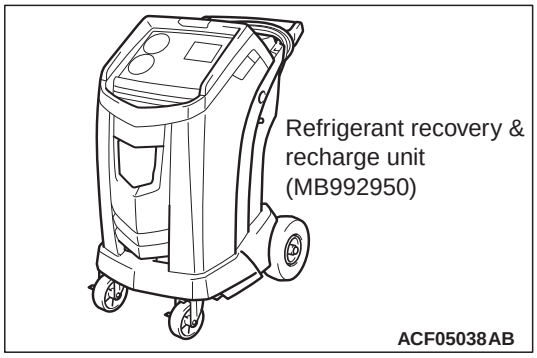
Tool	Number	Name	Use
 ACF06083AB	MB992950 a. MB992960 b. MB992961 c. MB992963 d. MB992964 e. MB992965 f. MB992966 g. MB992968 h. MB992969 i. MB992970 j. MB992972 k. MB992973 l. MB992974 m. MB992975 n. MB992962 o. MB992967 p. NB992971	Refrigerant recovery & recharge unit a. Cover b. Vacuum pump oil c. Hose (A) d. Hose (B) e. High side coupler f. Low side coupler g. Printer paper h. Oil inject bottle i. Oil drain bottle j. Filter k. Dye inject bottle l. Bottle cap m. Calibration weight n. Vacuum pump oil set o. Coupler set p. Maintenance kit	Discharging and recharging refrigerant

<Added>

Tool	Number	Name	Use
	MB992951 a. MB992952 b. MB992953 c. MB992954 d. MB992955 e. MB992965 f. MB992966 g. MB992958	Refrigerant charge set a. Manifold gage b. Hose (A) c. Hose (B) d. Hose (C) e. High side coupler f. Low side coupler g. Vacuum pump	Charging refrigerant

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REFRIGERANT DRAINING AND CHARGING



⚠ CAUTION

- **Overcharging refrigerant may cause an abnormal refrigerant pressure, thus damaging the air-conditioning system. Meanwhile, insufficiently charged refrigerant may cause insufficient cool air. To avoid these, always observe the specified amount of refrigerant.**
- **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.**
- **The refrigerant should be recovered according to a specified procedure. Never release it into the atmosphere.**

Use the refrigerant recovery & recharge unit (MB992950) to discharge the remaining refrigerant and recharge the specified amount of refrigerant.

Refrigerant: R1234yf
Charge amount: 270 ± 20 g

NOTE: For how to use the refrigerant recovery & recharge unit (MB992950), refer to the instruction supplied with it.

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REFRIGERANT LEVEL CHECK, DRAINING AND CHARGING

M1559200100453

Drain the entire refrigerant system with a refrigerant recovery and recycling unit, and then refill the specified quantity of refrigerant.

NOTE: Refer to the Refrigerant Recovery and Recycling Unit instruction Manual for operation of the unit.