MITSUBISHI MOTORS

SERVICE BULLETIN

GLOBAL AFTER SALES OFFICE, MITSUBISHI MOTORS CORPORATION

PURPOSE : CORRECTION	ISSUE NO. : MSB-10E54-501	DATE : 2010-12-05
SUBJECT : AUXILIARY BATTERY TYPE DESIGNATION		<MODEL> (EUR) i-MiEV (HA3W) <M/Y> 11
GROUP : CHASSIS ELECTRICAL		

1. Description:

The auxiliary battery type designation has been incorrect in the applicable Workshop Manuals. This Service Bulletin contains the corrected type designation.

Correct: 34B19L (S) ← Incorrect: 34B19L

2. Applicable Manuals:

Manual	Pub. No.	Title (Info-ID)	Attached Sheet
2011 i-MiEV Technical Information Manual	CTQE11E1-CD (English) CTQF11E1-CD (French) CTQG11E1-CD (German) CTQS11E1-CD (Spanish) CTQI11E1-CD (Italian)	Gr.54A: Auxiliary Battery - General Information (M543-50-020-02400-01)	Attached sheet 1
2011 i-MiEV Workshop Manual	CTQE11E1-CD (English) CTQF11E1-CD (French) CTQG11E1-CD (German) CTQS11E1-CD (Spanish) CTQI11E1-CD (Italian)	Gr.54A: Auxiliary Battery - Charging (M541-00-112-01100-01) Gr.54A: Auxiliary Battery - Battery Test (M541-00-122-13700-01)	Attached sheet 2

There may be some attached sheets not included in this Service Bulletin because they are not applicable to your market. Their sheet numbers are not listed in the above table.

3. Corrected Specifications:

See Attached sheets 1and 2.

Attached sheet 1

AUXILIARY BATTERY

GENERAL INFORMATION

M2543500200024

The light weight and compact auxiliary battery has been adopted.

Item	Specifications
Type	~~34B19L~~ <Incorrect>
Voltage V	12
Capacity (5 hours average Ah)	27
Specific gravity of battery electrolyte (fully charged at 20°C)	1.290

<Correct> 34B19L (S)

Attached sheet 2

CHARGING

M1541001102011

⚠ CAUTION

- **The battery plugs should be removed during charging.**
- **The battery electrolyte level may rise and overflow from the battery during charging.**
- **Explosions may occur if the battery is brought close to naked flames during charging.**
- **Be careful to avoid tasks that might produce sparks or other danger while the battery is charging.**
- **After charging is complete, reinstall the battery plugs, pour water over the battery to rinse away any sulphuric acid, and let the battery stand to dry.**
- **Charge the battery in a well-ventilated location.**
- **Do not let the battery electrolyte temperature rise above approximately 45°C (approximately 55°C during rapid charging).**

Remove the battery from the vehicle.

1. The normal charging current is a value in amperes which is 1/10th of the battery capacity. If the battery needs to be charged rapidly because of reasons such as time limitations, the maximum charging current for rapid charging is the battery capacity expressed as an ampere value.

Battery type <Incorrect>	Capacity (5-hour rate)	Normal charging current	Rapid charging current
~~34B19L~~	27 Ah	2.7 A	27 A

DETERMINE WHEN CHARGING IS FINISHED.

When the specific gravity of the battery electrolyte is constantly within 1.220 – 1.290 for a continuous period of one hour or more.

BATTERY TEST

M1541001202137

TEST STEPS

STEP 1. Battery no-load voltage check

(1) Illuminate the headlamp for 15 seconds.
(2) Turn off the headlamp and then leave it for about 2 minutes to stabilise the battery voltage.
(3) Remove the battery cable.
(4) Measure the battery no-load voltage.

OK: 12.4 V or more (Specific gravity 1.240)

Q: Does the measured voltage correspond with this range?
YES : Go to Step 3
NO : Go to Step 2

STEP 2. Battery charging

Recharge the battery at 5A (constant-current charging). (Refer to Table 1.)

Q: Is the battery no-load voltage normal value (12.4 V or more)?
YES : Go to Step 3
NO : Replace the battery.

STEP 3. Load test check

(1) Connect the battery tester to battery.
(2) Feed a load current through the battery. (Refer to Table 1).
(3) Measure the battery voltage after 15 seconds and then eliminate a load current.
(4) Compare the measured voltage to the specified lowest voltage. (Refer to Table 2).

Q: Is the measured voltage higher than the lowest voltage?
YES : The battery is normal.
NO : Replace the battery.

(TABLE 1)

Battery type	Charging time when fully discharged [5A constant current charging] (H)	Load current (A)
~~34B19L~~ <Incorrect>	6	130

(TABLE 2)

Outside air temperature (°C)	21 or more	16 to 20	10 to 15	4 to 9	–1 to 3	–7 to –2	–12 to –8	–18 to –13
Minimum voltage (V)	9.6	9.5	9.4	9.3	9.1	8.9	8.7	8.5

34B19L (S) <Correct>