



SB-10053792-4362

# Technical Service Bulletin

SUBJECT:			No: <b>TSB-13-54-003</b>
<b>DTC P1AC3 TROUBLESHOOTING – SERVICE MANUAL REVISION</b>			DATE: <b>September, 2013</b>
			MODEL: <b>2012–2013 i–MiEV</b>
CIRCULATE TO:	<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 type="checkbox"/> WARRANTY PROCESSOR	<input type="checkbox"/> SALES MANAGER

## PURPOSE

This TSB updates the troubleshooting procedures for DTC P1AC3: Traction Battery Fan Failed (stop abnormal) < Vehicles with traction battery warming system or quick charging system>.

## AFFECTED VEHICLES

2012 i–MiEV (All North American Markets)  
2013 i–MiEV (Canada only)

## AFFECTED SERVICE MANUALS

2012 i–MiEV: Group 54D – Electric Motor Unit and Traction Battery > Battery Management Unit (BMU) and Traction Battery > Diagnosis Code Procedures > DTC P1AC3: Traction Battery Fan Failed (stop abnormal) < Vehicles with traction battery warming system or quick charging system>

2013 i–MiEV: Group 54D – Electric Motor Unit and Traction Battery > Battery Management Unit (BMU) and Traction Battery > Diagnosis Code Procedures > DTC P1AC3: Traction Battery Fan Failed (stop abnormal) < Vehicles with traction battery warming system or quick charging system>

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Please make the indicated changes to the troubleshooting procedures for DTC P1AC3 as follows:

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**ELECTRIC MOTOR UNIT AND MAIN DRIVE LITHIUM-ION BATTERY  
BATTERY MANAGEMENT UNIT (BMU) AND MAIN DRIVE LITHIUM-ION BATTERY**

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**STEP 3. Perform voltage measurement at C-107 BMU connector**

- Measure the BMU terminal voltage.
- Disconnect C-14 Main Drive Lithium-ion Battery fan connector.
- Electric motor switch: ON
- Voltage between terminal No. 21 and ground.

OK: 0 – 0.1 V

**Q: Is the check result normal?**

**NO** →  **YES**  
<Correct> <Incorrect>

Check intermediate connector C-102, and repair if necessary. If intermediate connector is normal, check and repair harness between C-14 (terminal No. 3) Main Drive Lithium-ion Battery fan connector and C-107 (terminal No. 21) BMU connector.

- Check output line for short circuit to power supply.

**YES** →  **NO**  
<Correct> <Incorrect>

Go to Step 4.

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**STEP 4. Scan tool MB991958 diagnostic trouble code**

**Q: Is the diagnostic trouble code set?**

**YES** : Go to Step 5.

**NO** : Intermittent malfunction (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunctions ).

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**STEP 5. After replacing the Main Drive Lithium-ion Battery, reconfirm the diagnostic trouble code.**

- After replacing the Main Drive Lithium-ion Battery, reconfirm whether the diagnostic trouble codes are set.

**Q: Is the diagnostic trouble code set?**

**YES** : Replace the BMU.

**NO** : Check end.

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**Code No. P1AC4: Calculation Abnormal**

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**TROUBLE JUDGEMENT**

**Check Condition**

- 2 seconds elapse after the electric motor switch is turned ON, or 2 seconds elapse after the Main Drive Lithium-ion Battery starts to be charged.

**Judgement Criterion**

- The result of two RAM calculations is not the same.

**FAIL-SAFE AND BACKUP FUNCTION**

- Not available