

Service Information

Mazda Motor Corporation

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Category G	Repair Guidance	Ref. No. R092/12A	Page 1 of 2
Coverage <input type="checkbox"/> Distributor only <input checked="" type="checkbox"/> Please inform your dealers		Date Issued December 19, 2012	
Please convey this information to your <input type="checkbox"/> Director <input checked="" type="checkbox"/> General Manager <input checked="" type="checkbox"/> Warranty Dept. <input checked="" type="checkbox"/> Parts Dept. <input checked="" type="checkbox"/> Training Dept. <input checked="" type="checkbox"/> Field Rep.		Date Revised January 31, 2013	
Applicable Model Mazda6 (GJ) with i-ELOOP		Applicable Countries or Specifications Worldwide (except North America)	

[Revised]

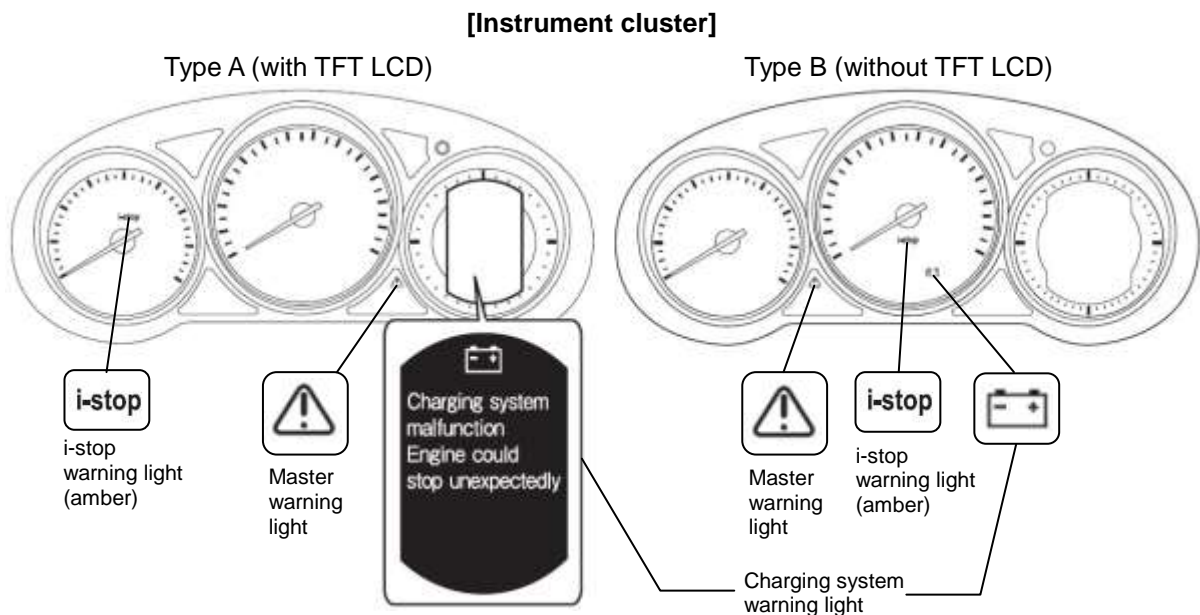
Revision Note: "CAUSE" and "MASS PRODUCTION CHANGE" have been revised.

Subject: Charging System Warning Light Illumination with DTC P0A94:00/U3000:49

DESCRIPTION

Some customers may experience some (or all) of the conditions below.

- 1) The charging system warning light suddenly illuminates.
- 2) The i-stop warning light (amber) and the master warning light suddenly flash.



CAUSE

When vehicle electrical load (current dissipation) exceeds 50A or more, the switching IC within the DC-DC converter is turned on to regulate the current. At this time, a surge voltage is generated and some IC with less withstand voltage due to variation could be damaged.

If typical vehicle driving mode for failure according to the following two conditions are met, the DC-DC convertor may get broken when switching IC is activated.

- 1) The vehicle is used with high electrical load of more than 50A for example using Rear Defogger, Headlight (Hi), and Blower Fan (Max.) at the same time.
- 2) The vehicle is driven with frequent deceleration modes and the capacitor is fully charged. (The capacitor voltage is around 20V.)

MASS PRODUCTION CHANGE

A condenser has been added in the switching IC to absorb the surge voltage.

BEGINNING VIN & DATE OF MODIFICATION

ADR spec

JM0 GJ ***** 101083 November 20, 2012

Algerian spec

GJ **** 101083 November 20, 2012

General spec

JM6 GJ ***** 101083 November 20, 2012

JM7 GJ ***** 101083 November 20, 2012

Israel spec

JMZ GJ ***** 101083 November 20, 2012

EU spec

JMZ GJ ***** 112043 November 20, 2012

REPAIR PROCEDURE

When you encounter a customer complaint on this concern, replace the DC-DC converter with modified one according to the Workshop Manual "DC-DC CONVERTER (i-ELOOP) REMOVAL/INSTALLATION [i-ELOOP]".

PART INFORMATION

Part Number		Part Name	Q'ty	Remark
New	Old			
GKK1 67 Y60A	GKK1 67 Y60	DC-DC converter (i-ELOOP)	1	For 4SD
GKH8 67 Y60B	GKH8 67 Y60A		1	For WGN

WARRANTY INFORMATION

Assembly group	G – Engine electrical system
Subassembly group	03 - Generator
Symptom Code	6X
Damage Code	9W
Causal Part No.	GKK1 67 Y60A or GKH8 67 Y60B (DC-DC converter)
Q'ty	1
Operation No.	XXHAYXRX
Labor Hours	0.5H
Period Covered	Normal warranty period

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1CB1233145 (MC Internal Use)