MITSUBISHI
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Mitsubishi Electric Corporation Industrial Robot
MELFA Technical News
BFP-A6079-0113E
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Subject: F series instruction manual (troubleshooting) written contents supplement

Applicable to: F series all model

Thank you for your continued support of Mitsubishi industrial robot "MELFA".
This Technical news describes the contents that we will correct as follows about the written contents of the instruction manual for our company industrial robot F series (troubleshooting: BFP-A8871 vice edition G).

1. Object model

F series all model

2. Supplementary contents

This Technical news supplement and add a postscript as follows about the measure written contents When the following error(hand input power/brake fuse blown) occurs published at the instruction manual (troubleshooting: BFP-A8871 vice edition G)

①In the case of H0087

The present contents

Error No.	Error cause and measures	
H0087	Error message	Fuse is blown.(Brake)
	Cause	1)Fuse is blown.(Brake) 2)The fuse (4A fuse) installed at the bottom of the 24V power supply circuit in the controller may have blown out. For the fuse blowout, the emergency stop made by the customer may be the cause, or there may be a ground fault or short circuit with the 24V power supply in the wiring of a door switch, enabling device,etc.
	Measures	1)Change Fuse . 2)Investigate and correct the ground fault or short circuit portion in the wiring made by the customer. Then, replace the fuse inside the controller. Refer to Page 44, "Fig.2-2 : Fuse (F8) exchange place" for details. (On details of the fuse, contact the manufacturer.)

supplement and the contents of the postscript

Error No.	Error cause and measures	
H0087	Error message	Fuse is blown.(Brake)
	Cause	1)A Brake failure or a ground fault of a brake cable may have caused the error. 2)The fuse (4A fuse) installed at the bottom of the 24V power supply circuit in the controller may have blown out. For the fuse blowout, the emergency stop made by the customer may be the cause, or there may be a ground fault or short circuit with the 24V power supply in the wiring of a door switch, enabling device,etc.
	Measures	1)There are two brake fuses. Replace both of the fuses. 2)After the ground fault is removed from the wiring, replace the fuse (4A fuse, model:LM40) for the 24V power supply in the controller. Refer to Page 50, "Fig.2-2 : Fuse (F8) exchange place" for details. (On details of the fuse, contact the manufacturer.)

②In the case of H0083

The present contents

Error No.	Error cause and measures	
H0083	Error message	Fuse is blown.(hand input power)
	Cause	1)The pneumatic hand's power fuse has broken. Possibly the power supply line of the hand input signal short-circuited. 2)The fuse (4A fuse) installed at the bottom of the 24V power supply circuit in the controller may have blown out. For the fuse blowout, the emergency stop made by the customer may be the cause, or there may be a ground fault or short circuit with the 24V power supply in the wiring of a door switch, enabling device,etc
	Measures	1)Confirm that the hand input cable is connected correctly.Exchange the fuse. Refer to the Page 43, "Fig.2-1: Fuse (F3) exchange place" for details. 2)Investigate and correct the ground fault or short circuit portion in the wiring made by the customer. Then, replace the fuse inside the controller. Refer to Page 44, "Fig.2-2 : Fuse (F8) exchange place" for details. (On details of the fuse, contact the manufacturer.)

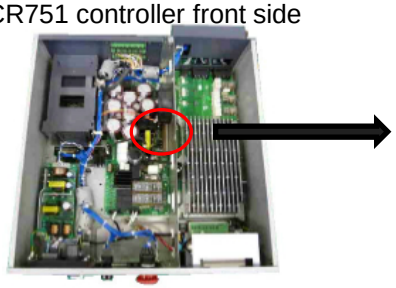
supplement and the contents of the postscript

Error No.	Error cause and measures	
H0083	Error message	Fuse is blown.(hand input power)
	Cause	1)The pneumatic hand's power fuse has broken. Possibly the power supply line of the hand input signal short-circuited. 2)If any other error occurred simultaneously, the fuse (4A fuse, model:LM40) installed at the bottom of the 24V power supply circuit in the controller may have blown out. For the fuse blowout, the emergency stop made by the customer may be the cause, or there may be a ground fault or short circuit with the 24V power supply in the wiring of a door switch, enabling device,etc
	Measures	1)Confirm that the hand input cable is connected correctly.Exchange the fuse. Refer to the page 49, "Fig.2-1:Pneumatic hand's power fuse exchange place" for details. If the error recurs after replacing the fuse, contact the manufacturer. 2)Investigate and correct the ground fault or short circuit portion in the wiring made by the customer. Then, replace the fuse inside the controller. Refer to Page 50,"Fig.2-2: Fuse (F8) exchange place" for details. (On details of the fuse, contact the manufacturer.)

3. Place where fuse replacement is required

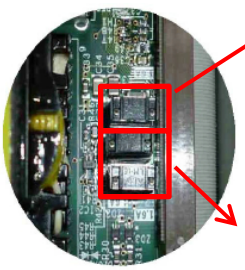
Where fuse(Hand/Brake) replacement is as follows. Since the part number and model name of a fuse change with models and serial numbers, look at the fuse conversion table.

CR751 controller front side



CR750 controller front side

On a YZ801x board



Fuse conversion table

Model	Serial number	Hand input power		Brake	
		Part number	Fuse model	Part number	Fuse model
RH-3/6/12/20FH-D/Q Series	F1xxxxxx/F2xxxxxx/R1xxxxxx/R2xxxxxx	F3	LM16	F1,F2	LM16
RV-2/4/7F-D/Q Series	F1Axxxxxx/F2Axxxxxx/R1Axxxxxx/R2Axxxxxx	F5	LM16	F3,F4	LM16
RV-13/20F-D/Q Series	F1xxxxxx/F2xxxxxx/R1xxxxxx/R2xxxxxx	F3	LM16	F1,F2	LM32
RV-7FLL-D/Q Series	F1Axxxxxx/F2Axxxxxx/R1Axxxxxx/R2Axxxxxx	F5	LM16	F3,F4	LM32

Notes) According to the vice edition of the converter board indicated in the controller, the part numbers of fuses differ.
YZ801A: Hand input power fuse:F3 Brake fuse:F1,F2 / YZ801B: Hand input power fuse:F5 Brake fuse:F3,F4