Mitsubishi hoist Sales & Service

Notice of change in 400V class 30 kW hoist inverter output part

We highly appreciate for your continuous sales support on Mitsubishi Hoist and related items. This time, we would like to make an announcement for change in 400V class 30 kW hoist inverter output and please accept our sincere apologies for taking time to prepare the announcement.

1. Changed contents

Change in 400V class hoisting 30kW inverter output part (IPM, IPM drive board, other structural parts)

2. Subject models

①Product: 400V class U2 type more than 15tons, HU2 type more than 10tons, TIB-H15 to H30 ②Service parts: 400V class 30kW inverter for IPM and IPM drive board

3. Subject models and Schedule for changes

①Product : Changed will be made production from March 2018.

(2)Service parts : IPM order receipt after March 2018, we will support by following replacement kit accordingly. In order to manage the history by our company, please be sure to clarify the serial number before requesting quotation. When replacing the IPM, we will submit replacement instructions, new sequence diagram, new wiring diagram in addition to the necessary parts.

Item Name	Replacement kit breakdown		
IPM replacement kit	IPM, IPM drive board, replacement instructions, new sequence diagram, new wiring diagram, other parts required for replacing cable etc.		
☆There is no change in	order (IPM uses existing products) for IPM drive board (Part code: 03G513)		

4. Reason for Changes

With the discontinuation IPM production, IPM and change in IPM drive board mounting structure.

5. Changes and Notes

(1) Changed IPM to 1 package item. (Old: 4 pieces/unit, New: 1 piece/unit)

(2) For replacement details, please refer to the replacement instructions (PHN-181001) included in the part. (3) There is no change in function, performance etc.

(4) The appearance and wiring diagram inside the new and old control boxes are shown below.



U2 type IPM · Drive board replacement procedure manual (400 V class, 30 kW)





PHN-181001 (2 / 7)

IPM drive board M4 screw×3	 8. Removal of existing parts Remove the IPM drive board fixing screws (M4 screw3 places) Pull and remove the IPM drive board vertically toward you.
IPM M5 screw×8 44 Spacer×3	9. Removal of existing parts Remove IPM drive board support spacer (M4… 3 places) and IPM…4 places (M5 screw…8 places).
Silicone grease	10. Removal of existing parts • Wipe the silicone grease (white). Removal of existing parts is completed.



	14. Replacement parts installation
TOM	• Mount the @copper bar (U, W phase) to the
	current sensor with the M4 screw.
	•Place the @copper bar (U, V, W phase) on
	the ③resin washer, and attach it to the
M4 screw×2	insulator with (4) screw (M6×16…3 places).
<pre>@Resin washer×3</pre>	
(U, V, W Phase) ×3	*Be careful as the ©copper bar (U, V, W
(€)M6×16 screw×3	phase) have different sizes.
	U Phase: 90mm, V Phase: 70mm, W Phase 77mm
	*Temporarily fix the (4) screw $(M6 \times 16 \cdots 3)$
	places to fix the copper bar to the IPM.
	15. Replacement parts installation
	•Attach copper bar (U, V, W phase) to IPM
	assembly by $\textcircled{12}$ screw (M5 $ imes$ 12…3 places)
	• Has been temporarily fixed, IPM assembly and
	copper bar ④screw (M6×16…3 places) and
	(5)flat screw (M5 \times 16 \cdots 4 places) need to be
(2)M5×12 screw ×3	tighten.
	16. Replacement parts installation
	• Mounting the drive board vertical to the pin
	of the IPM.
	• Fix the drive board with $@screw (M4 \times 8)$
	3 places).

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Upper Part	18. Replacement parts installation • Attach the ④ snubber (2.2 μ F) and ⑧ electric wire (P1, N, B) to the drive board and the insulator with ⑫ screw (M5 × 12…6 places). Tighten the wiring when removing the copper bar. Wire lower part mounting part (Refer Enlargement) Wire upper part mounting part (Refer Enlargement) ※Be careful not to interfere with board parts when wiring electric ⑧ wires (P1, N, B).
	19 (Enlargement) Lower mounting part ⑧Wire (P1、N、B)
	20.(Enlargement) Upper mounting part ⑧Wire (P1、N、B)

