

# REPAIRING PROCEDURE FOR FDC335KXE6 AND KXZME1

· THIS DOCUMENT SHOWS THE REPAIRING PROCEDURE OF FDC335KXE6 AND KXZME1.  
 AFTER CONFIRMING THE NECESSARY PARTS,  
 PERFORM THE WORK ACCORDING TO THE INSTALLATION PROCEDURE.

REPAIR TARGET MACHINES		REPAIR WORK				
MODEL·PARTS No.	SOFTWARE CODE	Ⓘ	Ⓜ	Ⓜ	Ⓜ	Ⓜ
		COMPRESSOR	SV6			SOFTWARE
FDC335KXZME1/I (PCB003G012C) FDC335KXE6/L (PCB003A495CC)	KYWC	○	○	○	○	○
FDC335KXE6/L (PCB003A495CC) FDC335KXE6/A (PCB003A495AC) FDC335KXE6/I (PCB003A495B)	L3WC	○	○	○	○	⊛

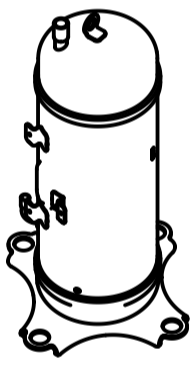
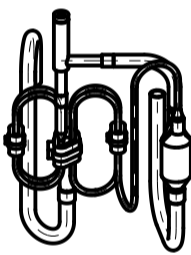
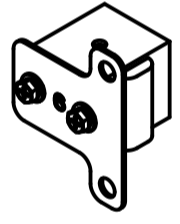
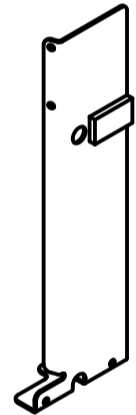
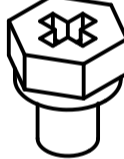

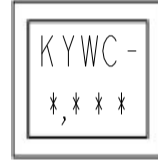
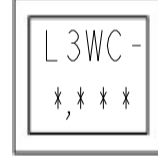
**SAFETY PRECAUTIONS**

- MAKE SURE TO CARRY OUT REPAIRING IN ACCORDANCE WITH THIS DOCUMENT. IMPROPER REPAIR WORK MAY CAUSE ELECTRIC SHOCK OR FIRE.
- MAKE SURE THAT THE UNIT IS TURNED OFF BEFORE RENOVATION WORK.
- LEAVING THE UNIT POWER "ON" MAY CAUSE ELECTRIC SHOCK OR FAILURE.
- FOR OTHER PRECAUTIONS DURING REPAIR WORK, REFER TO THE INSTALLATION MANUAL ATTACHED TO THE UNIT.

\* IF THE COMPRESSOR IS OPERATIONAL,  
 REWRITE ONLY THE SOFTWARE ON THE CONTROL BOARD.

**REPLACEMENT PARTS**

THE COMPRESSOR AND REPAIR KIT ARE PACKAGED SEPARATELY (ORDER EACH AS REQUIRED).  
 CONTACT YOUR LOCAL DISTRIBUTOR FOR MORE DETAILS.

TARGET MODEL	AGT201B727HA	PCB003K346B(REPAIR KIT)					CPU LABEL
	COMPRESSOR (GTC5150)	SV6 RELATED					
		PIPING ASSY	COIL ASSY	BRACKET	BOLT	BAND	
FDC335KXZME1/I FDC335KXE6/L  NEW CPU CONTROL BOARD MOUNTING MACHINE SOFTWARE CODE:KYWC							
FDC335KXE6/L FDC335KXE6/A FDC335KXE6/I  OLD CPU CONTROL BOARD MOUNTING MACHINE SOFTWARE CODE:L3WC							
	×1 PART	×1 PART	×1 PART	×1 PART	×1 PART	×3 PART	×2 PART

**1. REPAIRING CONTENTS**

- Ⓘ REPLACE COMPRESSOR.
- Ⓜ REPLACE PIPING ASSY. ---FOR SV6
- Ⓜ REPLACE BRACKET. ---FOR SV6
- Ⓜ REPLACE COIL ASSY. ---FOR SV6
- Ⓜ PERFORM SOFTWARE REWRITING OF THE CONTROL BOARD.

**2. PANEL REMOVAL**

- ① REMOVE THE SERVICE PANEL
- ② REMOVE THE SIDE PANEL

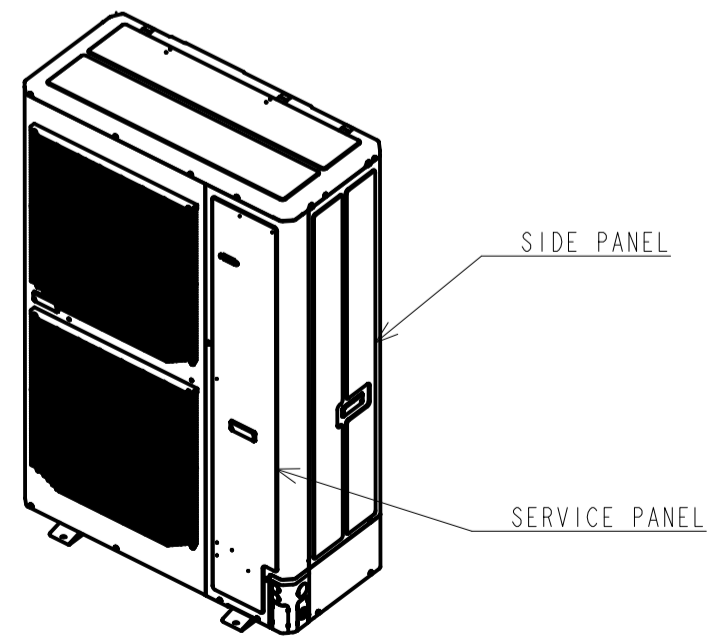


FIG.1 OVERALL VIEW OF THE TARGET MACHINE

### 3. REPAIRING PROCEDURE

<REPAIRING WORKS ①②>

REPLACE COMPRESSOR AND SV6.

NOTE THE FOLLOWING WHEN REPLACING THE COMPRESSOR AND SV6 PIPING.

- ▷ WHEN REMOVING AND INSTALLING THE PIPING BY BRAZING, THE SURROUNDING FUNCTIONAL PRODUCTS (EXPANSION VALVE, SOLENOID VALVE, FOUR-WAY VALVE, OPERATION VALVE, CHECK VALVE, PRESSURE SENSOR, ETC.) MUST NOT EXCEED 120 °C.
- ▷ RECOVER THE REFRIGERANT CORRECTLY.
- ▷ BRAZING MUST BE PERFORMED UNDER A NITROGEN GAS FLOW.

- ① REMOVE COMP-INSULATION.
- ② REMOVE COMP WIRING, CH, UNDER DOME THERMO, 63H, DISCHARGE PIPE THERMO, SV6 COIL
- ③ REMOVE THE BRAZING PARTS FOR (A) (DISCHARGE) AND (B) (SUCTION).
- ④ REMOVE THE COMPRESSOR AND OIL SEPARATOR ASSEMBLY FROM THE UNIT.
- ⑤ REMOVE PIPE FIXING BRACKET (C) AND (H).
- ⑥ REMOVE THE (D) (DISCHARGE) AND (F) (OIL RETURN) BRAZING PARTS.
- ⑦ REMOVE THE OIL SEPARATOR ASSEMBLY FIXING SCREWS (3 PLACES).
- ⑧ REMOVE THE (G) (OIL RETURN) BRAZING PART.
- ⑨ REMOVE THE SV6 PIPE FROM THE OIL SEPARATOR ASSEMBLY.
- ⑩ BRAZE THE OIL SEPARATOR ASSEMBLY AND THE PIPING ASSEMBLY (G). (FIG.3)
- ⑪ BRAZE THE OIL SEPARATOR ASSEMBLY TO THE COMPRESSOR (D, F).
- ⑫ FIX THE OIL SEPARATOR ASSEMBLY TO THE COMPRESSOR WITH SCREWS (3 LOCATIONS).
- ⑬ INSTALL PIPING FIXING BRACKET (C) AND (H) (FIG.4)
- ⑭ ATTACH THE COMPRESSOR AND OIL SEPARATOR ASSEMBLY TO THE UNIT.
- ⑮ BRAZE THE (A) (DISCHARGE) AND (B) (SUCTION).
- ⑯ RECONNECT THE WIRING. TIGHTEN THE COMP WIRING CONNECTIONS WITH THE SPECIFIED TORQUE SHOWN IN THE FIGURE.(FIG.5,6)
- ⑰ INSTALL THE COMP-INSULATION. (FIG.7)

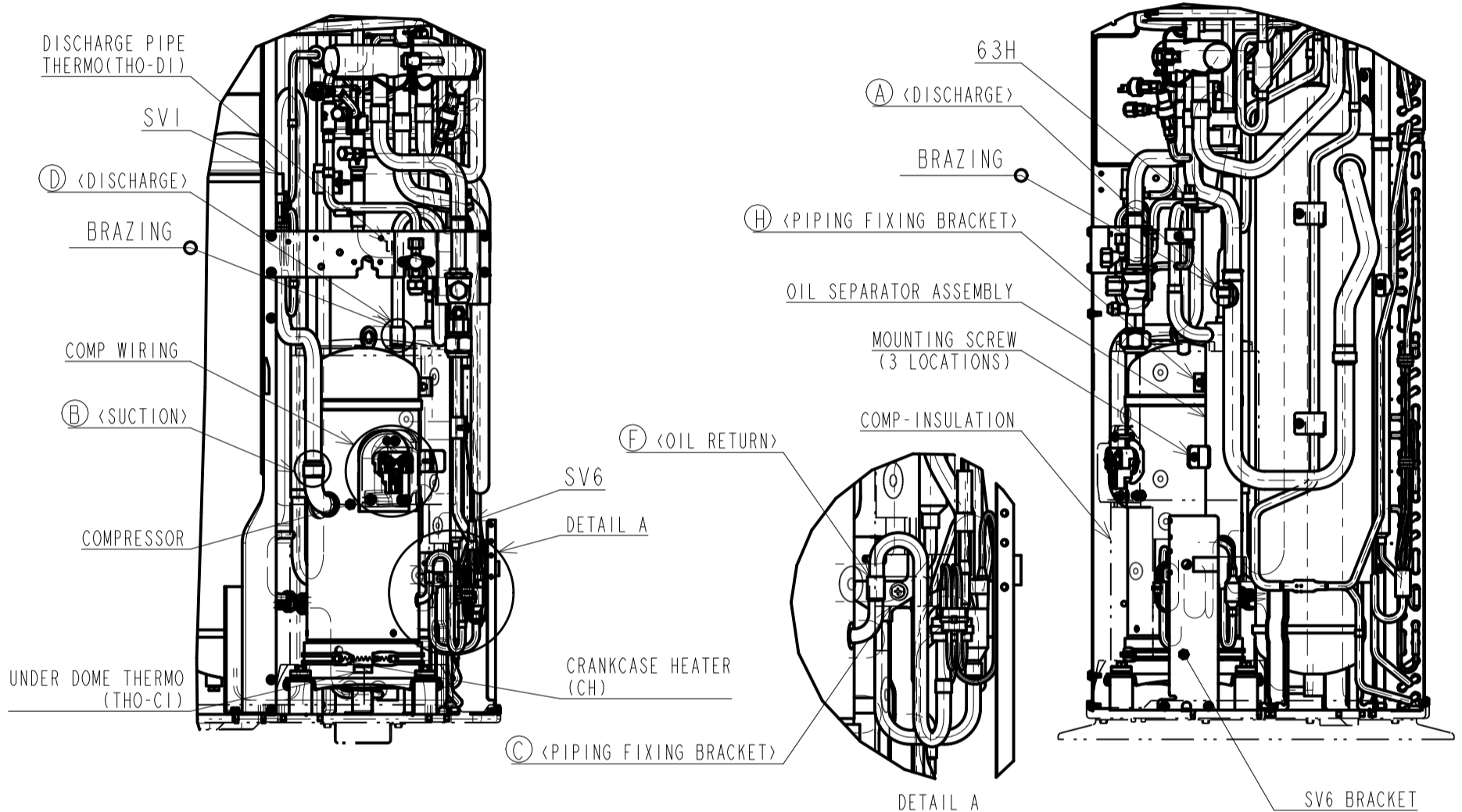


FIG.2 OVERALL INTERNAL STRUCTURE

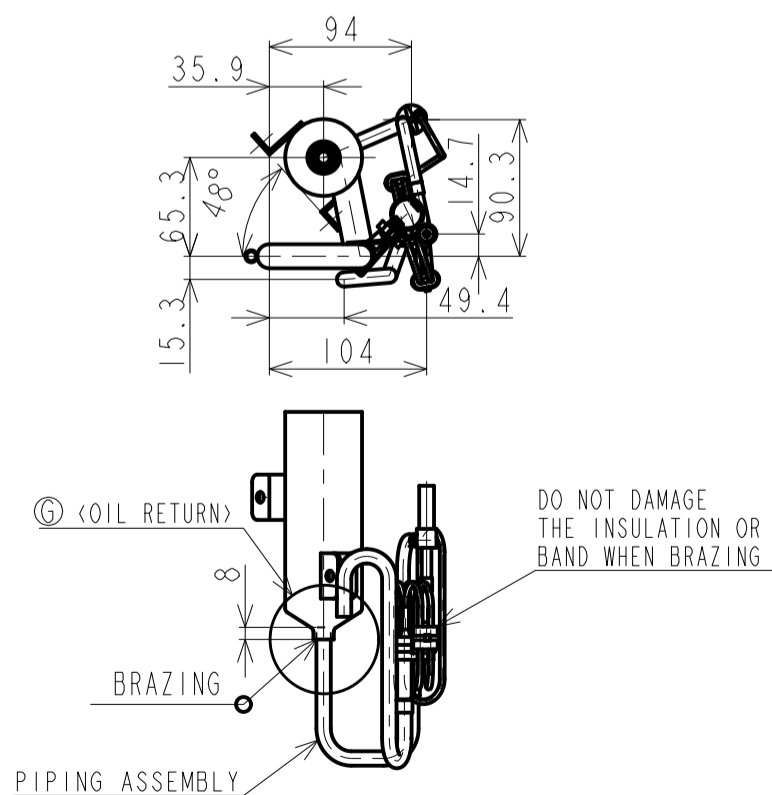


FIG.3 DETAILS OF OIL SEPARATOR ASSEMBLY AND PIPING ASSEMBLY BRAZING

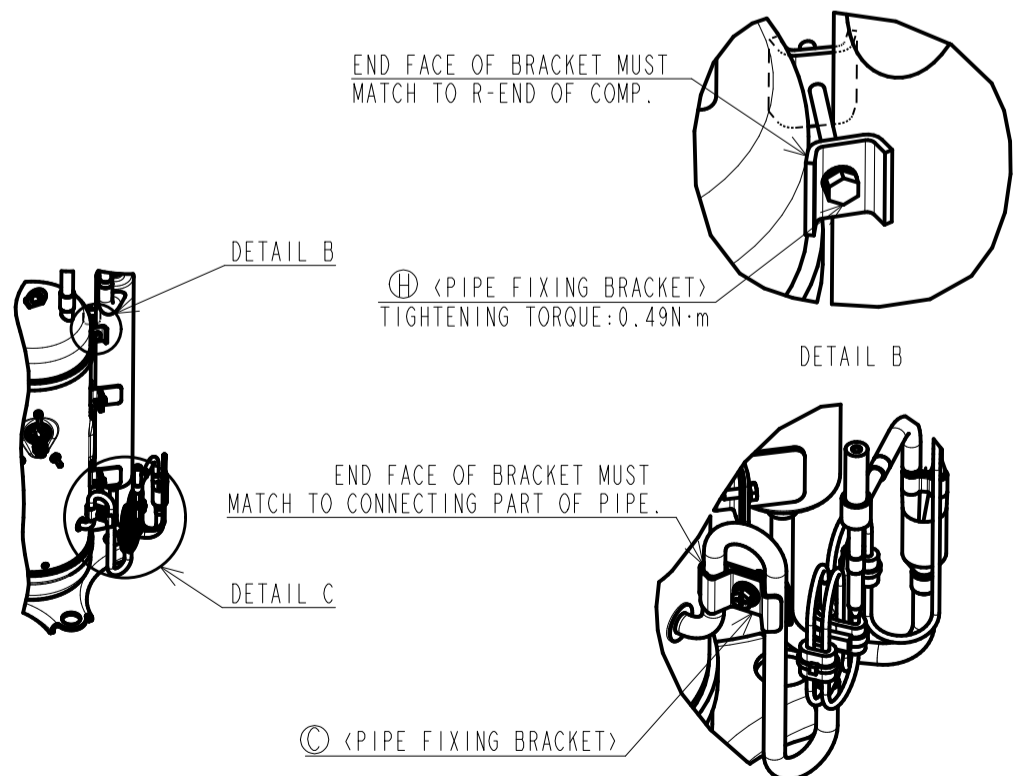


FIG.4 INSTALLATION DETAILS OF PIPE FIXING BRACKET

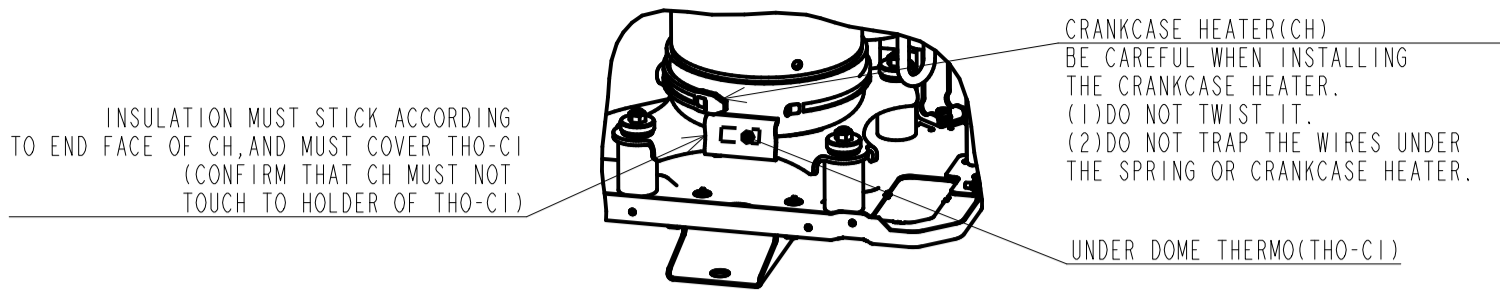


FIG. 5 INSTALLATION DETAIL OF UNDER DOME THERMO

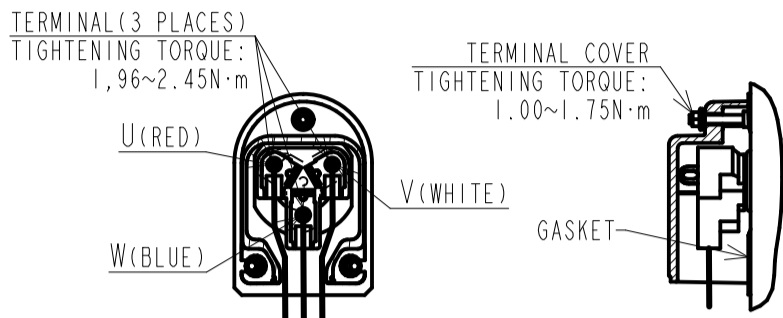


FIG. 6 CONNECTING DETAIL OF COMP WIRING

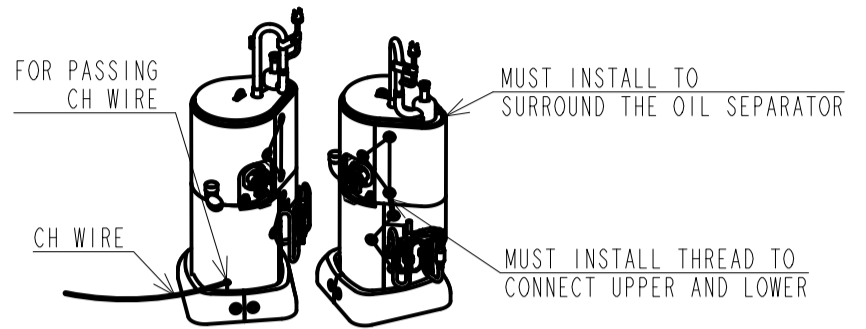


FIG. 7 INSTALLATION DETAILS OF COMP-INSULATION

<REPAIRING WORKS III>  
 ·REPLACE THE SV6 BRACKET.  
 SEE FIG. 2

<REPAIRING WORKS IV>  
 ·REPLACE THE COIL ASSY FOR SV6. (SEE FIG. 8)  
 ① .CUT THE BAND THAT TIES THE SV6 WIRING (3 PLACES). (FIG. 8)  
 ② .REMOVE CONNECTOR CNN2 (GREEN) ON THE CONTROL BOARD. (FIG. 9)  
 ③ .REMOVE THE SV6 COIL ASSEMBLY.  
 ④ .INSTALL THE COIL ASSEMBLY.  
 ⑤ .SECURE THE COIL TO THE BODY WITH BOLTS.  
 ⑥ .FIX THE COIL ASSEMBLY TO THE BRACKET.  
 ⑦ .CONNECT TO CONNECTOR CNN2 (GREEN) ON THE CONTROL BOARD. (FIG. 9)  
 ⑧ .USE THE BINDING BAND TO BIND THE WIRING BACK (3 PLACES).

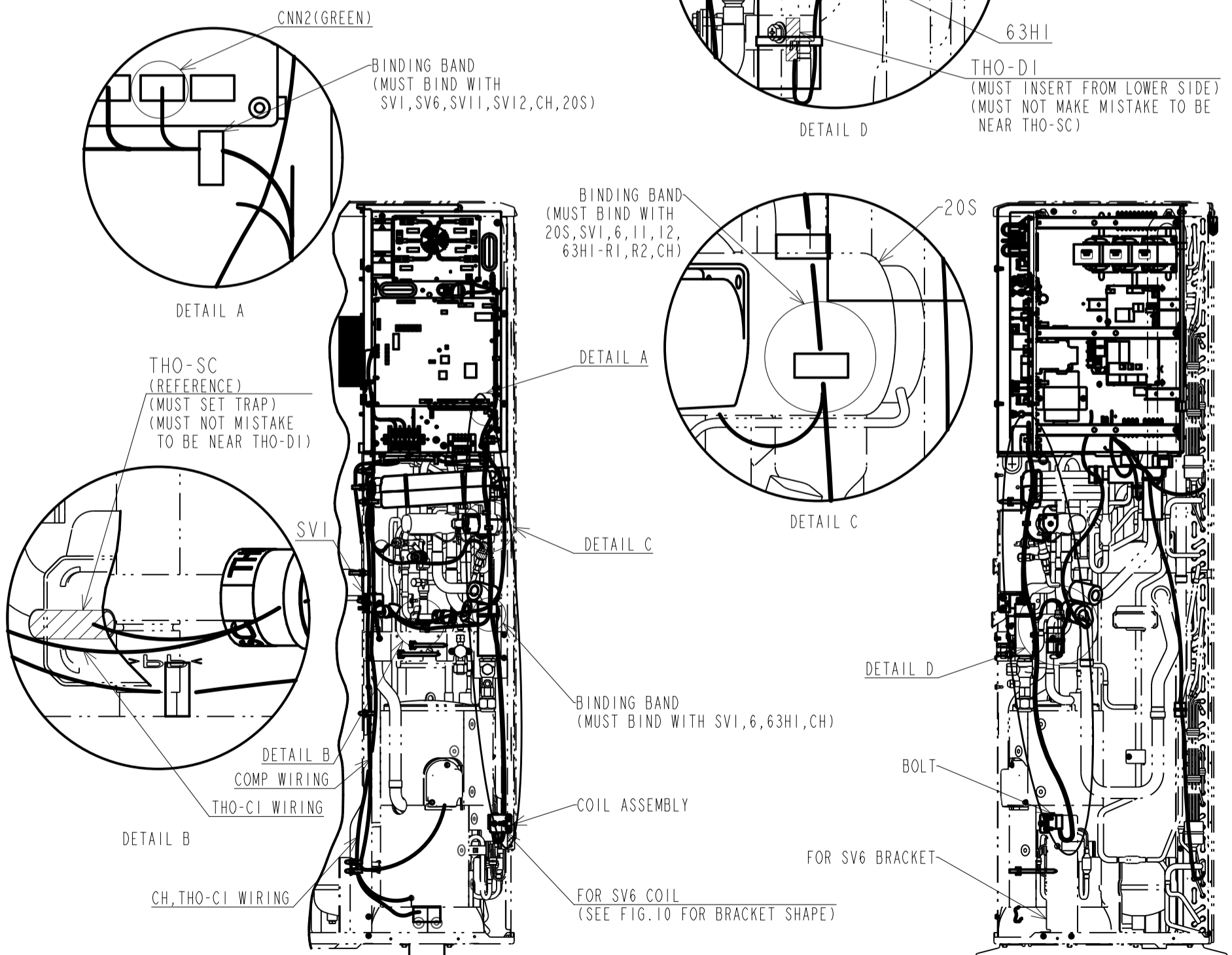
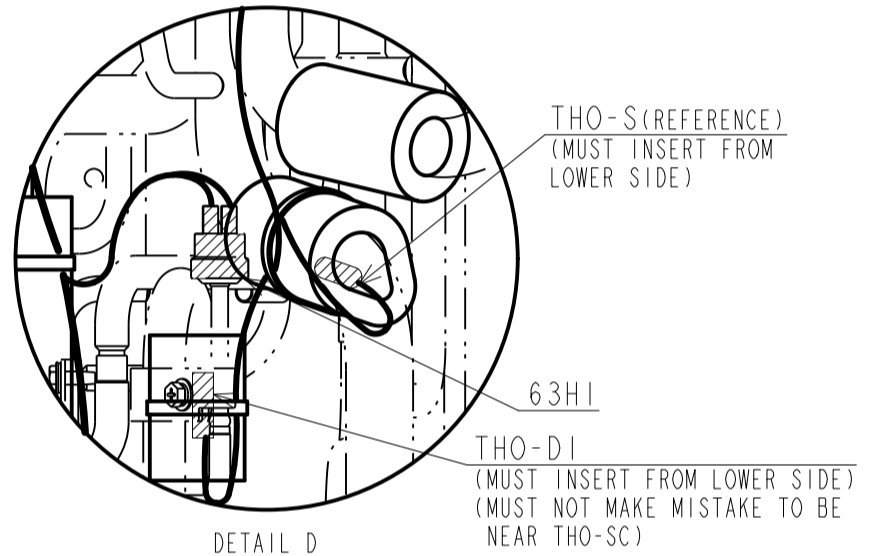


FIG. 8 WHOLE WIRING

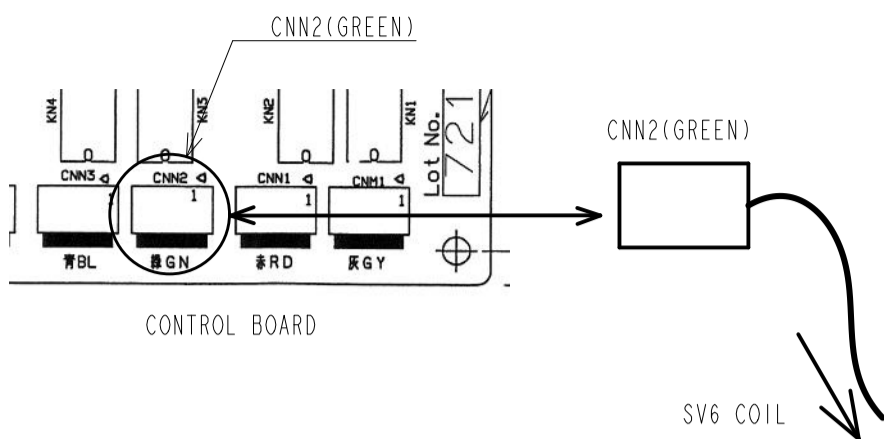


FIG.9 DETAILS OF CNN2(GREEN)

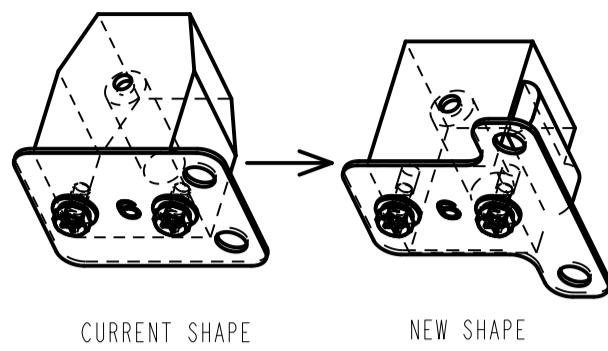
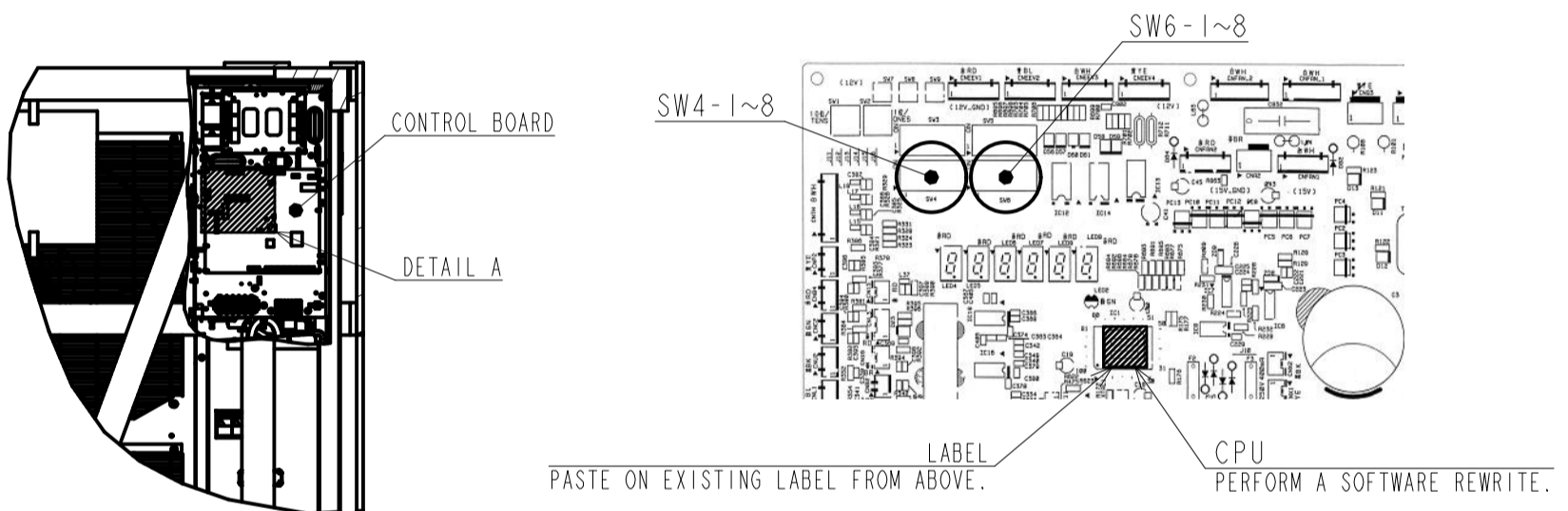


FIG.10 DETAILS OF COIL FOR SV6

<REPAIRING WORKS⑦>

PERFORM SOFTWARE REWRITING OF THE CONTROL BOARD.

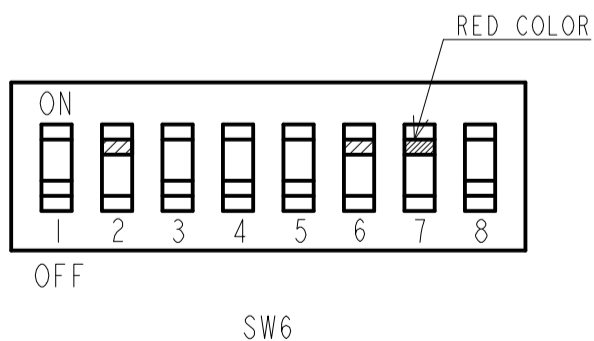
- ① .REWRITING SOFTWARE IS PROVIDED BY MHI.  
REWRITE THE SOFTWARE ACCORDING TO THE SOFTWARE CODE (KYWC OR L3WC) ON THE EXISTING LABEL ON THE CPU.
- ② .AFTER REWRITING THE SOFTWARE, PLACE THE CPU LABEL ON TOP OF THE EXISTING CPU LABEL.  
THE CPU LABEL IS SHOWN IN THE TABLE BELOW.(FIG.11)
- ③ .AFTER REWRITING THE SOFTWARE, SET SW6-7 TO "ON".(FIG.12)
- ④ .IF THE COMPRESSOR IS REPLACED WITH GTC5150,SET SW4-3 TO "ON".(FIG.13)



<CPU LABEL>

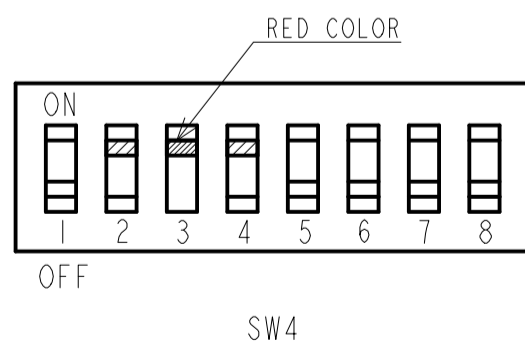
BEFORE REWRITING	THE LABEL TO USE
KYWC-*,* * *	KYWC-*,* * *
L3WC-*,* * *	L3WC-*,* * *

FIG.11. DETAILS OF CONTROL BOARD



AFTER SETTING SW6-7 TO "ON",  
FILL IT WITH RED PERMANENT MARKER AS SHOWN.

FIG.12. DETAILS OF SW6



AFTER SETTING SW4-3 TO "ON",  
FILL IT WITH RED PERMANENT MARKER AS SHOWN.

FIG.12. DETAILS OF SW4