Service parts installation manual (T7W E63 313)

SE-0317

1. Applicable models: PUHZ-HRP71/100VHA2,PUHZ-HW140VHA, UEZ071/100VA2

2. Parts list

No.	Parts name	Amount	Note.
①	Power circuit board	1	For replacement
②	Silicon (tube)	1	For heat radiation of power module
③	Support A	7	For power circuit board fixation
④	Support B	4	For power circuit board protection

Support A Support B



3. Installation procedures

①Before starting servicing, turn off main power and make sure to check main capacitor is fully discharged.
(Wait at least 3 minutes from when LED 1 and LED 2 or LED 3 turn off. LED 1 and LED 2 or LED 3 turn off a while after main power is cut off.)

②Disconnect all wirings from controller circuit board.

③Remove 2 screws and detach controller circuit board which is attached on the steel plate. (See Fig.1.)

④Disconnect all following wirings from power circuit board; U,V,W,P2,N2,EI,E2,E3,E4,CNDC,CN2,CN4, CNAC1,CNAC2,CN52C,LI,NI,DCL1,DCL2 (See Fig.2.)
⚠ Caution Make sure to unlock terminals before disconnecting these wirings.

⑤Remove 4 screws which fix power circuit board. (See Fig.2.)

⑥Remove support A (7) which fix power circuit board. (See Fig.2.)

⑦Remove power circuit board.

⑧Wipe off silicon on Heat sink thoroughly. (See Fig.3.)
⚠ Caution Make sure not to leave any dirt and dust on Heat sink. Dirt and dust can damage Heat sink and Power module.

⑨Attach support B (4) to the backside of power circuit board as shown in Fig.4.

⑩Apply silicon on radiating surface of Power module which is attached to the backside of power circuit board. (See Fig.4.)

⑪Attach power circuit board to electrical parts box. (See Fig.3.)
⚠ Caution If board support is old and damaged, replace it with the provided one.

⑫Fix board with screws(⑤). (See Fig.2)
Refer to the Fig.5 for how to tighten 4 screws.
⚠ Caution Do not use an electric driver as it may screw too tightly and may damage Power module.

⑬Connect wirings(④) to the board. (See Fig.2)
⚠ Caution LI,NI,DCL1,DCL2 is fixed with the screw. Tighten the screws of wiring by the torque of 1.96N·m.

⑯Attach steel plate and controller circuit board(③) to the original position with screws. (See Fig.1)
⚠ Caution Be careful about wirings not to be caught in between.

⑰Connect wirings(②) to controller circuit board.

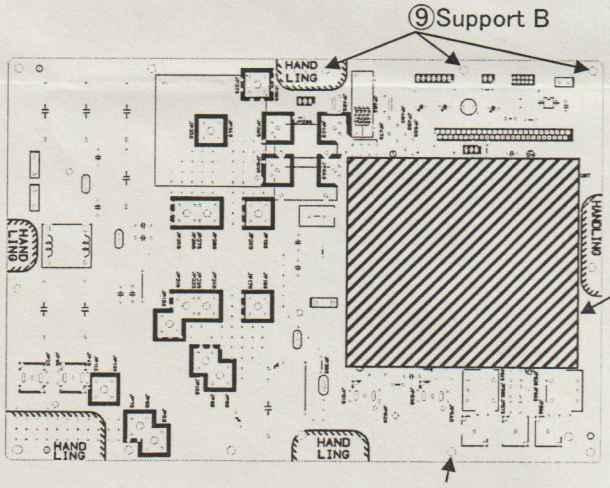
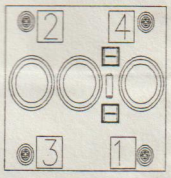


Fig.4



Lightly tighten the scr
power module with 0.4
tightening torque in th
order:
1 → 2 → 3 → 4
those screws properly
reversed order (4 →
with 0.9～1.2N-m tight

Fig.5

<Electrical parts box>

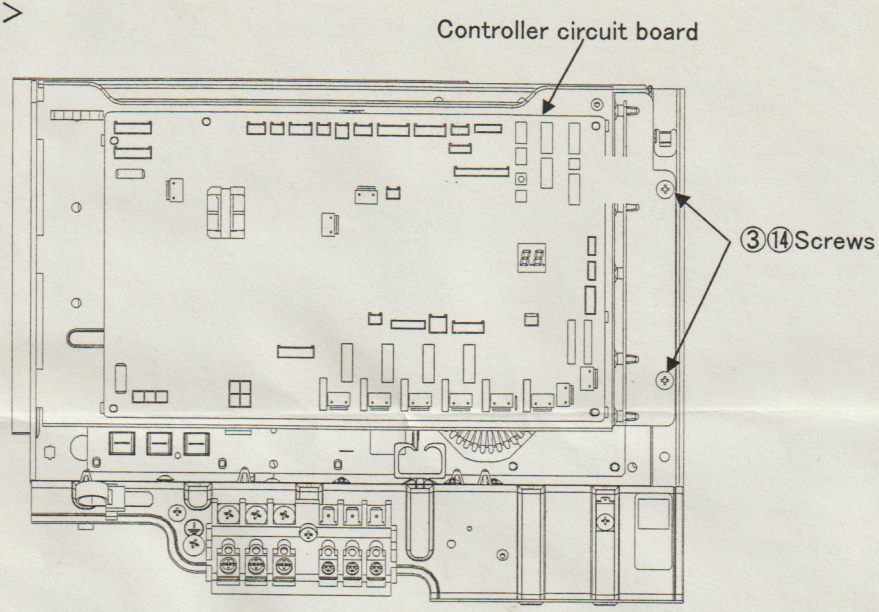


Fig.1

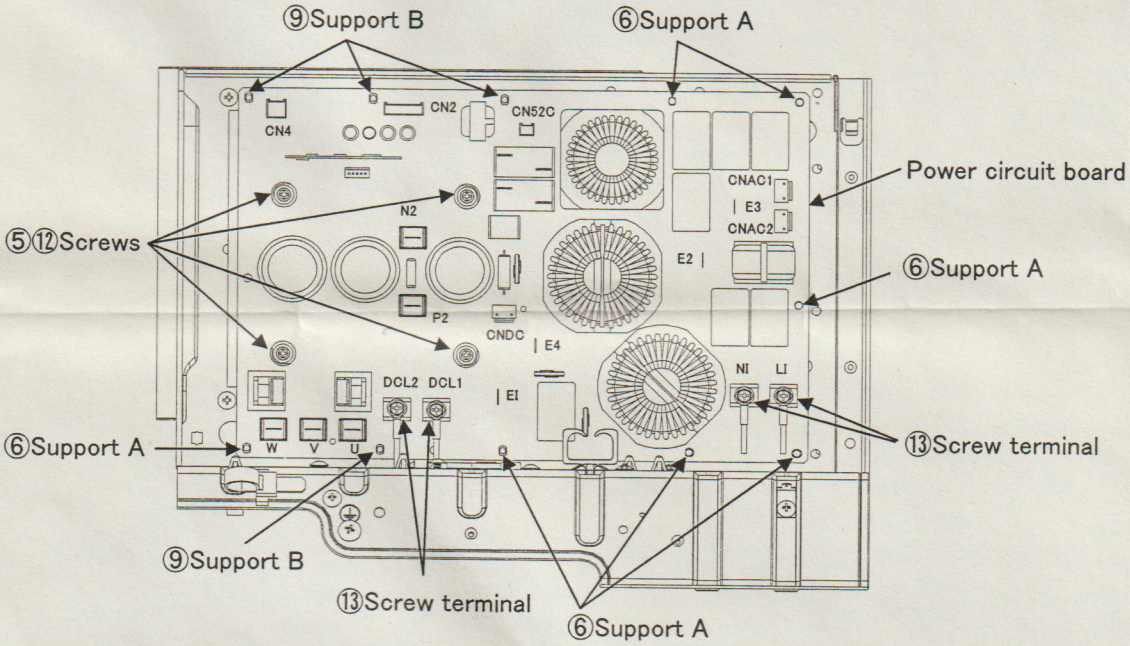


Fig.2

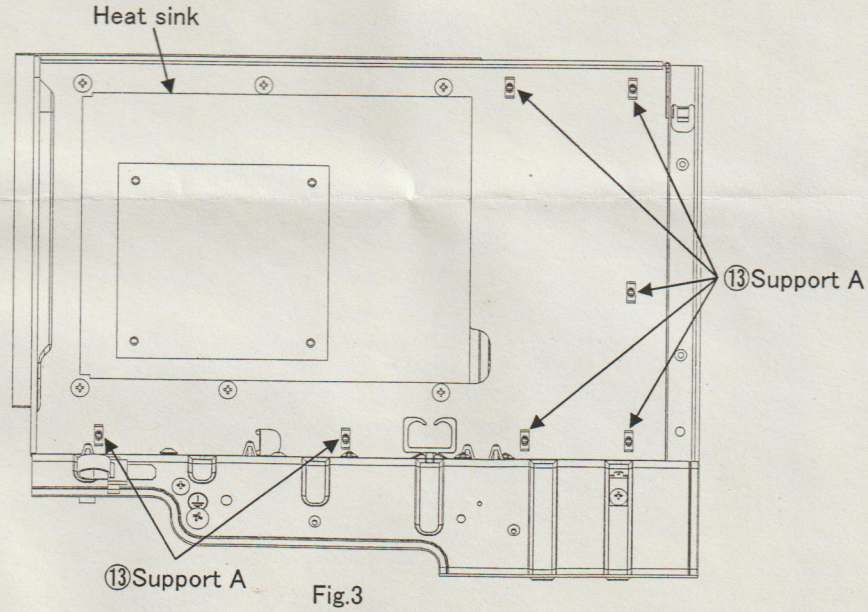


Fig.3

ews for
9N-m
e following

in the
3 → 2 → 1)
ening torque

RG79V960H07