

## Power supply circuit CBD-1682A adjustment manual



### CAUTION

Electric shock

**DO NOT** conduct adjustment work by turning on the power.

Before adjustment work, remove CBD-1682A from the scanner and remove all cables from CBD-1682A.

- To Access CBD-1682A, refer the attached service manual excerption.

## 1. PROCEDURE

1. Take a photo of RV1.
2. Turn the RV1 counterclockwise to two ticks (Fig.1).
3. Verify that RV1 is NOT adjusted to regions showing less than 40% (Fig.2). If the adjustment falls in this range, set the knob of RV1 back to scale 4.
4. Take a photo of RV1.
5. Fix the knob of RV1 by the silicone rubber (Fig.3).
6. Carry out the operation check after assembling all parts/cables/circuits.

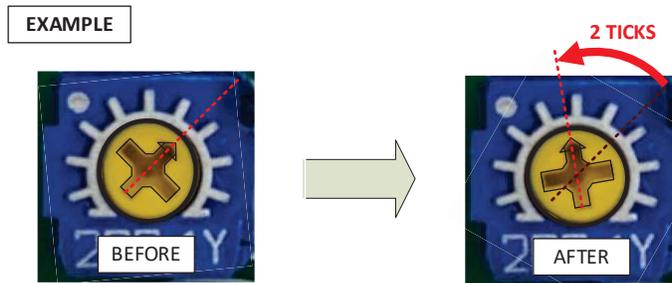


Fig. 1. RV1 adjustment



Fig. 2. Forbidden area



Fig. 3. Silicone rubber bonding

## 2. OPERATION CHECK

Turn on the safety switch and follow the procedure below to check the operation.

1. Turn On the Display unit. After the preheat countdown is completed, start transmission and check that the radar image appears without error. If the magnetron is replaced, allow sufficient time for the radar to be preheated (about 20 to 30 minutes / bring the radar unit to STBY mode).
2. When set to the 48 NM range, the Magnetron Current bar, indicating the magnetron current, should read the value as shown in the table below.

- JMR-9200 series and JMR-7200 series: 6-10 scale marks.
- JMA-9100 series and JMA-7100 series: 6-9 scale marks.
- JMA-5200Mk2 series and JMA-5300Mk2 series: 6-9 scale marks.

### 3. WORK REPORT

Report the following information using the attached work report.

- Serial number of the scanner unit
- Ship's name
- Photos before and after adjustment

Refer to Figure 4 for how to check the modulation circuit type.

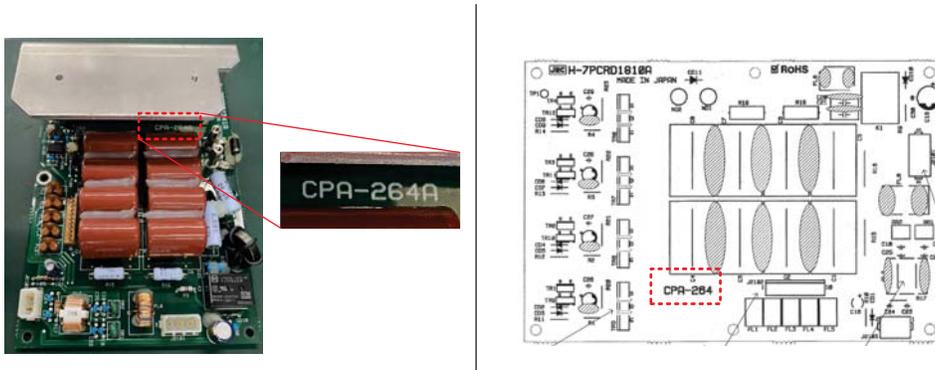


Fig. 4. Modulation circuit type

In case RV1 of CBD-1682A has not fixed by the silicone bonding, it is subject to this adjustment. The silicone bonding means it has already been adjusted.

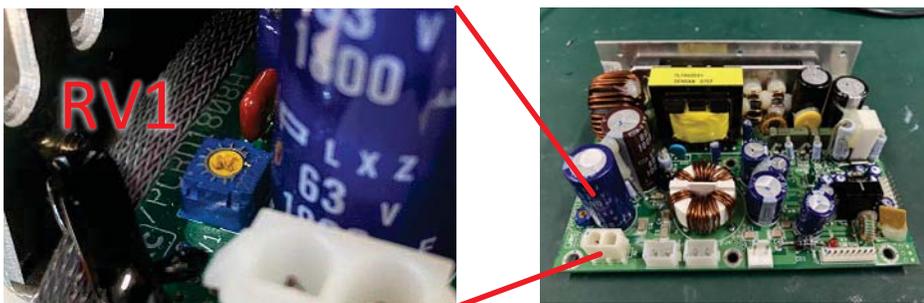
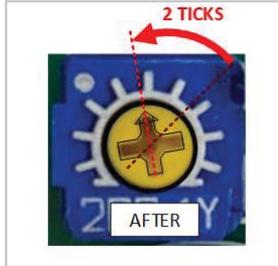


Fig. 5. RV1 and CBD-1682A

## CBD-1682A Work report

After the adjustment is completed, please report the following information.

Date	, ,
Working hours	hours
General Type	JMR- /JMA-
Radar Antenna Type	NKE- /NTG-
Serial number	SERIAL NO.
Ship's name	
A photo before adjustment	
A photo after adjustment	
events (Put a check mark)	<input type="checkbox"/> Magnetron Replacement. <input type="checkbox"/> Modulation Circuit Board Replacement. <input type="checkbox"/> Power Supply Circuit board Replacement.
Details (Put a check mark)	<input type="checkbox"/> TXRX(MHV) alert is displayed. <input type="checkbox"/> TXRX(Magnetron Current) alert is displayed. <input type="checkbox"/> Returns to preheat state during transmission. <input type="checkbox"/> Returns to standby state during transmission. <input type="checkbox"/> TXRX(Communication error) & Power(TXRX, Failed) alerts are displayed at the same time. <input type="checkbox"/> Other reasons.