

## INSTALLATION OF OPTIONS

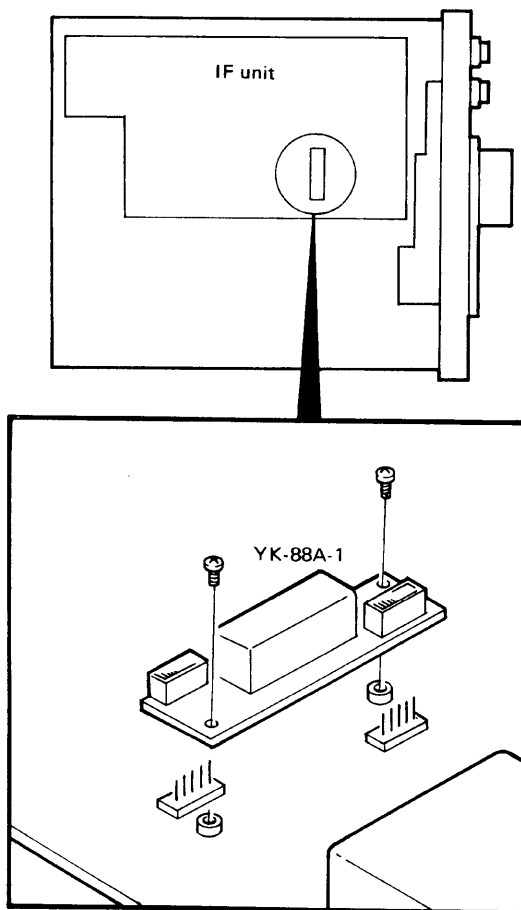
### Crystal Filter

A selection of optional filters is available for the R-5000 series : the YK-88SN, YK-88C, YK-88CN, and YK-88A-1. To install them, remove the top cover of the receiver and follow the procedure below. Detach the speaker lead wires so that they will not be broken.

**Note :** Solder as quickly as possible, using a low-power soldering iron (15W to 30W). Be careful not to break the speaker wires when removing the IF unit.

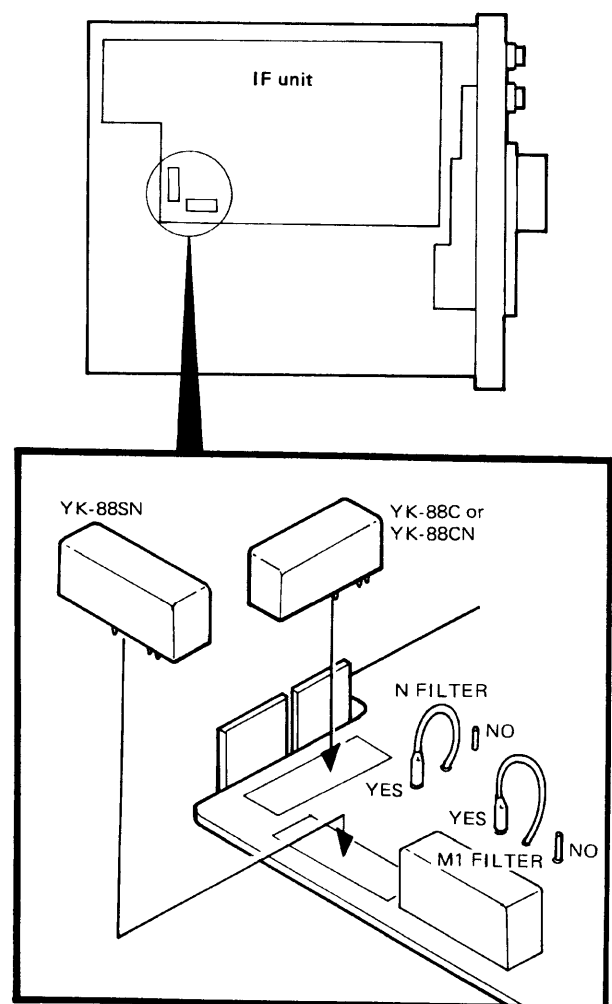
#### 2-1. YK-88A-1

- (1) Remove the two screws holding the filter board (X48-3000-00) (B/2) to the IF unit board, and remove the filter board.
- (2) Install YK-88A-1 and secure it with the two screws.



#### 2-2. YK-88SN, YK-88C, and YK-88CN

- (1) Remove the seven screws holding down the IF unit board, and lift it from the chassis.
- (2) Insert the filter into the space provided, and solder it to the foil side of the board at six points. Cut off the excess filter leads extending from the board.
- (3) Install the YK-88SN filter in the position marked SELECTIVITY M1 FILTER. Change the white filter selection jumper wire marked M1 FILTER from the NO position to the YES position.
- (4) Install the YK-88C or YK-88CN filters in the position marked SELECTIVITY N FILTER. Change the white filter selection jumper wire marked N FILTER from the NO position to the YES position.
- (5) Reattach the IF unit to the chassis in its former position with the seven screws.
- (6) Reattach the speaker wires and replace the top cover.



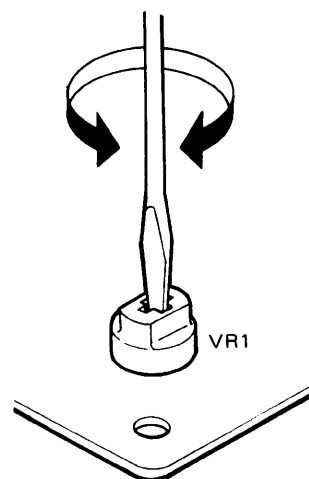
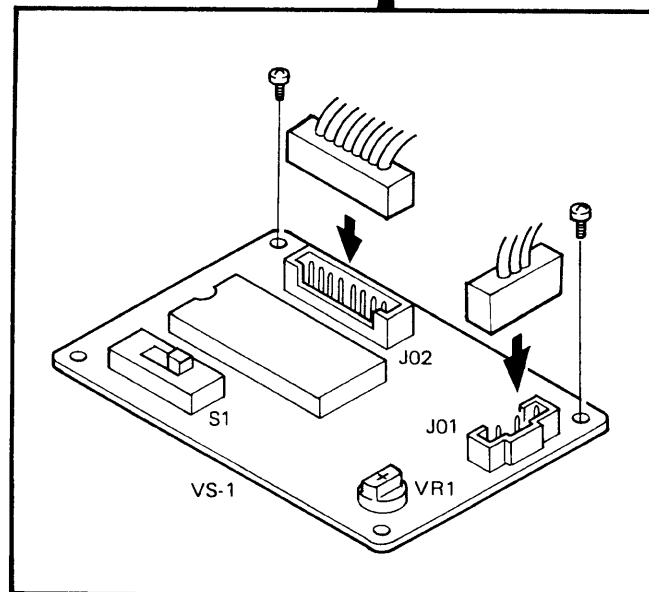
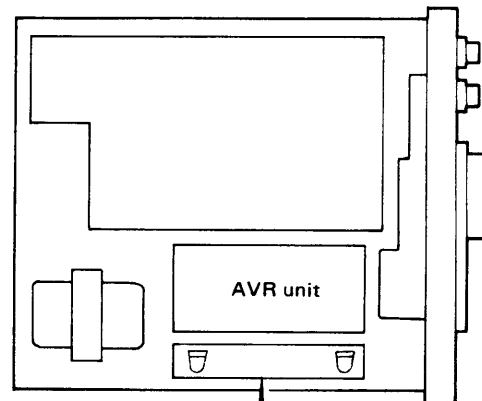
## INSTALLATION OF OPTIONS

### Voice Synthesis Unit VS-1

When the voice synthesis unit is installed, the user does not have to look at the display to read the frequency, but can hear it spoken by a synthesized voice. A switch on the unit selects English or Japanese.

- (1) Remove the top and bottom cover of the receiver cabinet.
- (2) Space for installing the VS-1 unit is provided beside the Power unit. Insert the VS-1 unit in the shield case, making sure it is oriented correctly, and secure it with the two supplied screws.
- (3) Near the VS-1 unit are an unconnected 3-pin connector and 8-pin connector. Plug the 3-pin connector onto J01 on the VS-1 unit (the green connector), the 8-pin connector into J02.
- (4) Set switch S1 on the VS-1 unit to select English or Japanese.
- (5) When power is on, the frequency is spoken when the VOICE switch is pressed. The voice volume can be adjusted by turning VR1 on the VS-1 unit with a screwdriver.

**Warning :** Be careful not to break the wires leading to the speaker mounted on the top cover. Remove these lead wires from the speaker terminals before installing the VS-1 unit.

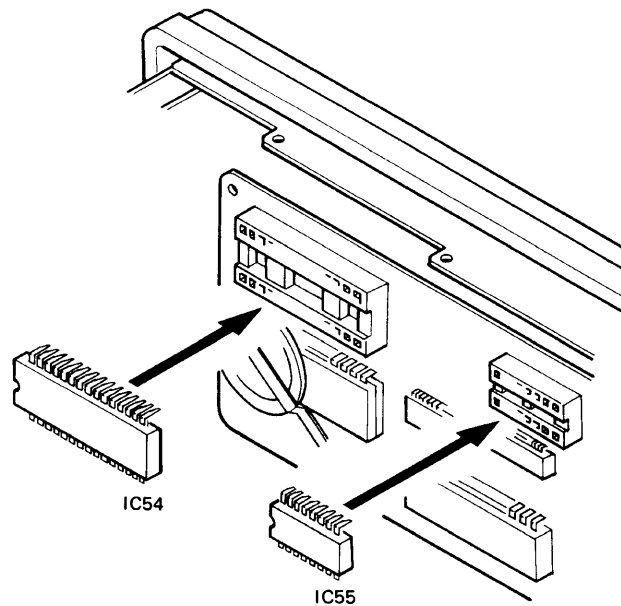


## INSTALLATION OF OPTIONS

### RS-232C Interface Chip IC-10

- (1) Remove the top and bottom covers of the receiver.
- (2) Remove the four screws at the sides of the front panel and pull the front panel forward.
- (3) Remove the five screws (two at the top and three at the bottom) holding the shield plate behind the front panel, and remove the shield plate.
- (4) Insert the IC package from the interface kit (IC54, IC55) in the socket on the board.

Make sure the IC package is inserted securely and in the right direction, and be careful not to damage any of the pins.



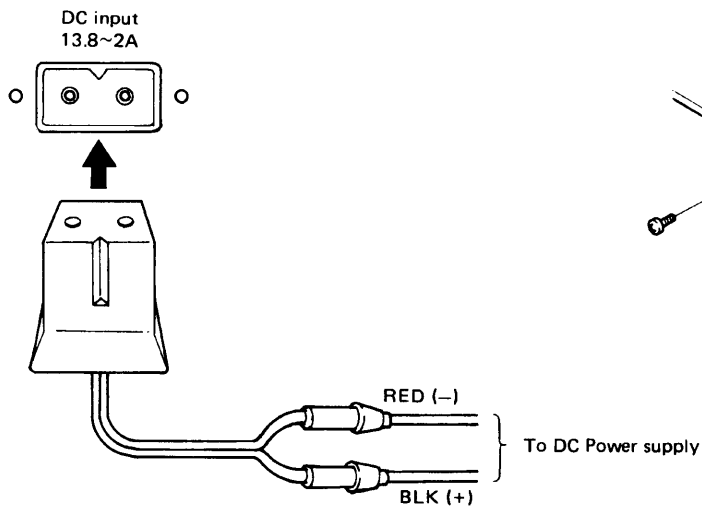
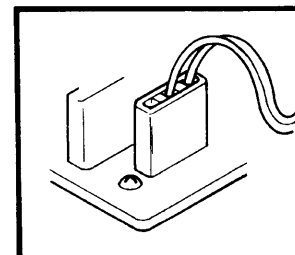
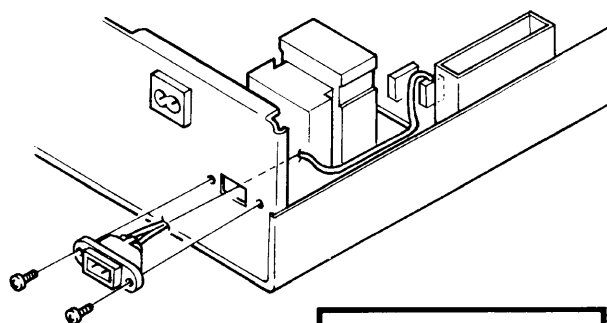
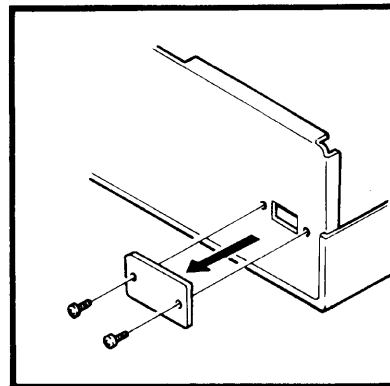
# R-5000

## INSTALLATION OF OPTIONS

### DC Power Cable Kit DCK-2

The DCK-2 cable kit is provided for running the R-5000 set from a DC power supply. The installation procedure is as follows :

- (1) Remove the top cover of the case.
- (2) Remove the blind plate from the rear panel.
- (3) Mount the DC connector in the hole provided for it on the rear panel, using two screws.
- (4) Pass the cable with the 3-pin connector through the two lead holders and plug the connector onto location ⑤ on the AVR unit. The unused pin must be closer to the transformer.
- (5) Use the DC cables to connect the R-5000 to the DC power supply.



## INSTALLATION OF OPTIONS

### VHF Converter VC-20

The VC-20 VHF converter enables the R-5000 to receive the VHF band from 108MHz to 174MHz. The installation procedure is as follows.

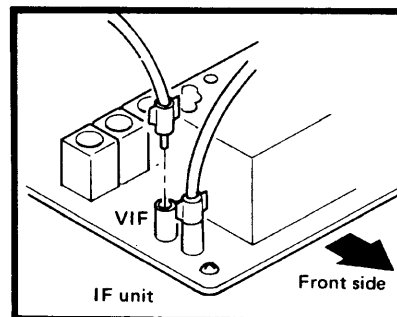
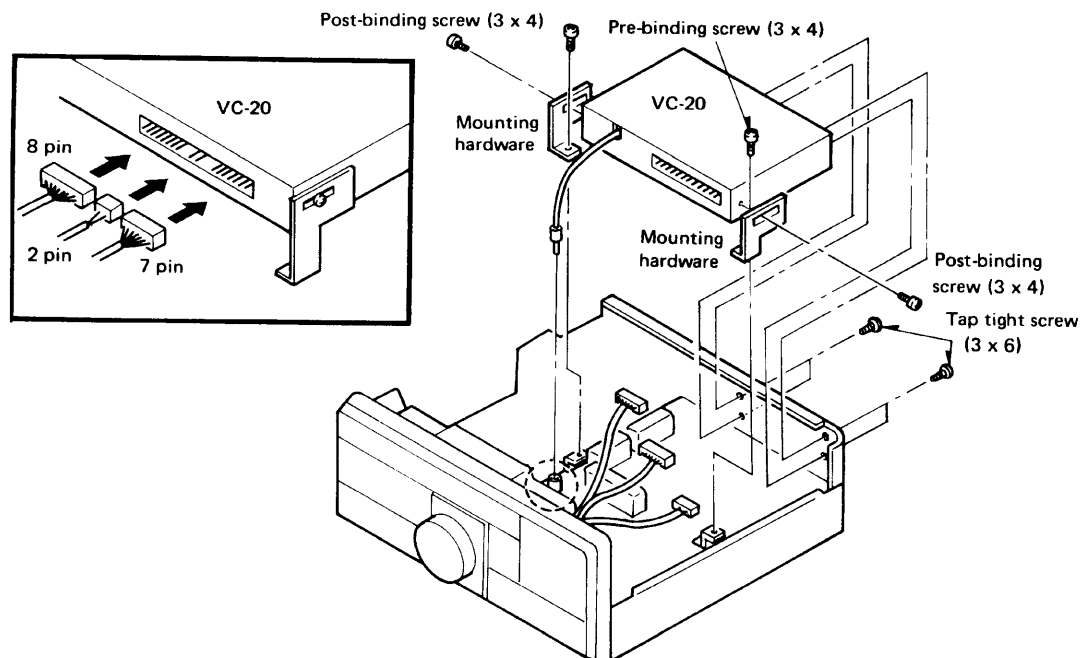
- (1) Remove the top cover of the receiver.
- (2) Attach the two mounting brackets to the chassis with one screw (Bind screw M3 x 4) each.
- (3) Insert the VC-20 from the rear with the antenna connector facing the rear, and attach the VC-20 to the rear panel with four screws (Tapping screw M3 x 6).
- (4) Attach the VC-20 to the two brackets with two screws (Bind screw M3 x 4).

- (5) Near the VC-20 is an unconnected 2-pin connector, a 7-pin connector, and an 8-pin connector. Plug the 2-pin connector onto location ② on the VC-20, the 7-pin connector onto location ③, and the 8-pin connector onto location ④.

- (6) Plug the coaxial cable from the VC-20 into the coaxial connector marked VIF on the IF unit.

**Warning :** Be careful not to break the speaker wires attached to the top cover. Remove these wires from the speaker terminals (speaker side) before installing the VC-20 unit. When installing the converter, be careful the wires not to be caught in the units.

The wires to the VC-20 are bound together with other wires in the IF unit. Remove the beed bands before connection.



# R-5000

## SPECIFICATIONS

### <GENERAL>

#### Receive frequency range

100kHz~30MHz

#### Mode

A1 (CW), A3J (SSB), A3 (AM), F1 (FSK), F3 (FM)

#### Antenna impedance

50/500Ω

#### Power requirement

AC 100V±10%, DC 13.8V±15%

#### Power consumption

AC : 35W, DC : 2A

#### Frequency configuration

1st IF : 58.1125MHz  
 2nd IF : 8.83MHz  
 3rd IF (FM mode only) : 455kHz  
 CW, SSB, AM, FSK; Double conversion superheterodyne  
 FM; Triple conversion superheterodyne

#### Image ratio

60dB or more (100kHz~1.8MHz)  
 80dB or more (1.8MHz~30MHz)

#### IF rejection ratio

60dB or more (100kHz~1.8MHz)  
 70dB or more (1.8MHz~30MHz)

#### IF SHIFT variable range

±0.9kHz or more

#### RIT/XIT variable range

±1kHz or more

#### Audio output power

1.5W or more (with 8Ω load, 10% distortion)

#### Audio output impedance

4~16Ω (including speakers and headphones)

#### Operating temperature

-10°C~+50°C

#### Dimensions ( ) includes projection

W 270(279) x H 96(107) x D 270(307)mm

#### Weight

5.5kg (1210lbs)

### <FREQUENCY STABILITY>

#### Frequency accuracy

Within ±10 x 10<sup>-6</sup>

#### Frequency stability (RIT/XIT OFF)

Within ±10 x 10<sup>-6</sup> (-10°C~+50°C)

#### Reference oscillats frequency

18MHz

#### Sensitivity

Mode \ Range	100~150kHz	150~500kHz	500kHz~1.6MHz	1.6~30MHz
SSB, CW, FSK (S + N/N = 10dB)	2.5μV or less	1μV or less	4μV or less	0.25μV or less
AM (30% Mod. S + N/N = 10dB)	25μV or less	10μV or less	16μV or less	2μV or less
FM (12dB SINAD)	-	-	-	0.5μV or less

#### Squelch sensitivity (Threshold)

Mode \ Range	100~150kHz	150~500kHz	500kHz~1.6MHz	1.6~30MHz
SSB, CW, AM, FSK	20μV or less	10μV or less	20μV or less	2μV or less
FM	-	-	-	0.32μV or less

#### Selectivity

Mode \ Range	-6dB	-50dB	-60dB
SSB, CW, FSK	2.5kHz or more	-	5.8kHz or less
AM	4kHz or more	20kHz or more	-
FM	12kHz or more	25kHz or more	-

Note : Circuit and ratings subject to change without notice due to developments in technology.

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