

# ICOM INSTRUCTION MANUAL

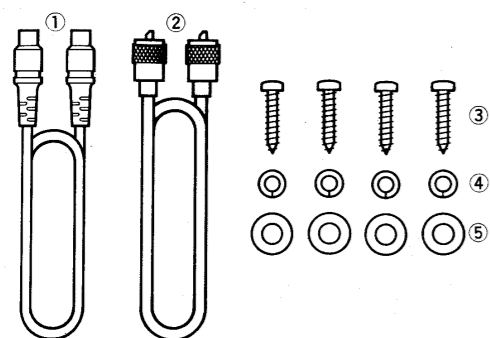
## HF AUTOMATIC ANTENNA SELECTOR

### EX-627

### DESCRIPTION

When connected to an Icom HF transceiver and up to 7 antennas, EX-627 automatically selects the antenna for the frequency on which you are operating. EX-627 can also be used with any transceiver to manually select one of up to 9 antennas.

### UNPACKING

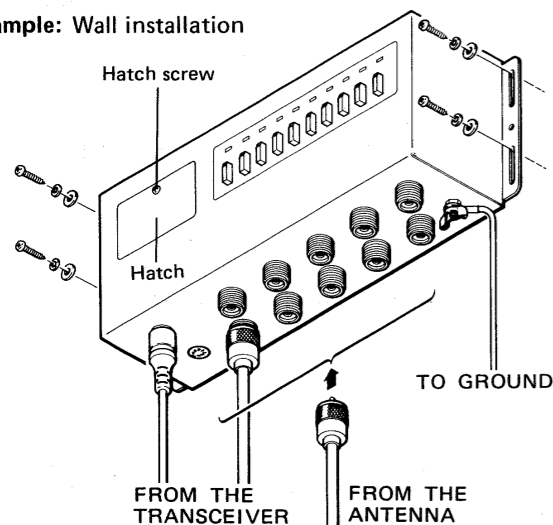


PART NAME	QTY.
① OPC-104A cable (length=2m) (DIN connectors included)	1
② OPC-125A cable (length=2m) (PL-259 connectors included)	1
③ Self-tapping screw (4 x 20, A0)	4
④ Spring washer (M4)	4
⑤ Washer (M4)	4

### INSTALLATION

Use the supplied screws to fix EX-627 in position as shown in the diagram below.

Example: Wall installation



Thank you for buying an Icom EX-627 HF AUTOMATIC ANTENNA SELECTOR.

Please read this manual thoroughly before installation and operation.

For further information, please contact an authorized Icom Dealer or Service Center.

### AUTOMATIC SWITCHING

For EX-627 to work automatically, preset the antenna selection for each of the 7 HF bands.

#### ■ PRESETTING

1. Remove the hatch from the front panel.
2. Locate an antenna connector number (ANT, 1 ~ 9) and its horizontal column.
3. Locate the frequency (24 ~ 28M, 18 ~ 21M, 14M, 10M, 7M, 3.5M, 1.8M) and its vertical column.
4. Locate the jumper pins at the intersection of the horizontal and vertical columns.
5. To make a circuit between the transceiver and the antenna, slide the pin contact over the jumper pins as shown below. Repeat steps 2 ~ 5 for each antenna.

#### ■ INITIAL JUMPER PIN SETTINGS

ANT	24-28M	18-21M	14M	10M	7M	3.5M	1.8M	ANT	
1	□	□	□	□	□	□	□	1	
2	□	□	□	□	□	□	□	2	
3	□	□	□	□	□	□	□	3	
4	□	□	□	□	□	□	□	4	
5	□	□	□	□	□	□	□	5	
6	□	□	□	□	□	□	□	6	
7	□	□	□	□	□	□	□	7	
8	□	□	□	□	□	□	□	8	
9	□	□	□	□	□	□	□	9	
N.C.	□	□	□	□	□	□	□	N.C.	
	J4	J5	J6	J7	J8	J9	J10		
	Jumper pins							Pin contact	

ANT	FREQUENCY (MHz)
1	24 ~ 28
2	18 ~ 21
3	14
4	10
5	7
6	3.5
7	1.8

N.C.: no connection

#### ■ EXAMPLE: USING A TRI-BAND ANTENNA

ANT	24-28M	18-21M	14M	10M	7M	3.5M	1.8M	ANT
1	□	□	□	□	□	□	□	1
2	□	□	□	□	□	□	□	2
3	□	□	□	□	□	□	□	3
4	□	□	□	□	□	□	□	4
5	□	□	□	□	□	□	□	5
6	□	□	□	□	□	□	□	6
7	□	□	□	□	□	□	□	7
8	□	□	□	□	□	□	□	8
9	□	□	□	□	□	□	□	9
N.C.	□	□	□	□	□	□	□	N.C.
	J4	J5	J6	J7	J8	J9	J10	

ANT	FREQUENCY (MHz)
1	14 ~ 21 ~ 28
2	10
3	7
4	3.5
5	1.8

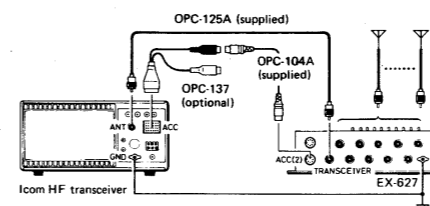
### EXTERNAL EQUIPMENT CONNECTION

When connecting EX-627 to an Icom HF transceiver, refer to the diagrams below.

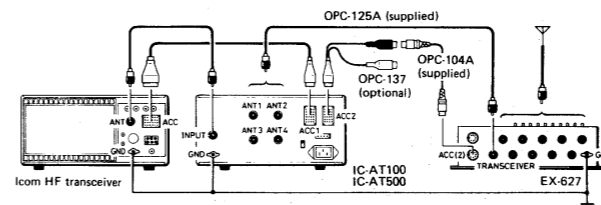
#### ■ ICOM TRANSCEIVERS WITH A 24-PIN ACC SOCKET (IC-701, IC-720, IC-720A, IC-730,\* IC-740, IC-745, IC-751, IC-751A).

\* IC-EX202 LDA unit (sold separately) required.

Example 1: Transceiver and EX-627.

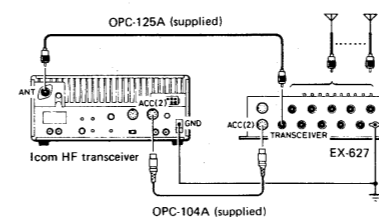


Example 2: Transceiver, EX-627 and an Icom Antenna Tuner.

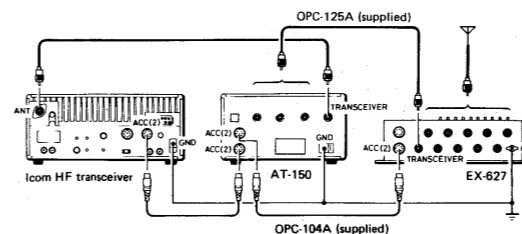


#### ■ ICOM TRANSCEIVERS WITH A 7-PIN DIN ACC(2) SOCKET (IC-735, IC-761, IC-781)

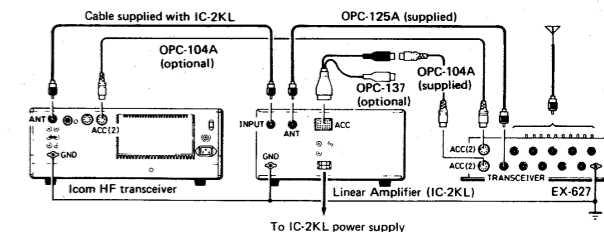
Example 1: Transceiver and EX-627.



Example 2: Transceiver, EX-627 and an Icom Antenna Tuner.



Example 3: Transceiver, EX-627 and an Icom Linear Amplifier.



■ To prevent electrical shocks, TVI, BCI and other problems, ground EX-627 through the ground terminal (GND) to a cold water pipe or an earth-sunk copper rod. Use heavy gauge wire. Make the distance between the terminal and ground as short as possible.

■ The transceiver supplies power to EX-627 through the ACC cable (OPC-104A).

#### ACC(2) SOCKET

PIN	NAME	DESCRIPTION
1	8V	Band switching reference voltage input
2	GND	Ground pin
3	NC	No connection
4	BAND	Band voltage input
5	NC	No connection
6	NC	No connection
7	13.8V	13.8V DC input

### OPERATION

#### ■ AUTOMATIC SWITCHING

Push AUTO on the front panel. The LED indicator over AUTO becomes lighted. Each time you switch bands, an antenna is automatically selected. The antenna LED indicator on the front panel becomes lighted.

**NOTE:** Automatic switching does not function when there are two or more antennas on the same band.

#### ■ MANUAL SWITCHING

An antenna can be selected manually with switches 1 ~ 9 on the front panel. Pushing a switch lights the LED indicator over the antenna in use.

### SPECIFICATIONS

Frequency range	: DC ~ 30MHz
Antenna impedance	: 50Ω
Power supply	: 13.8V DC (90mA, max.)
Ground	: Negative
Maximum acceptable power	: 1kW (when the SWR is less than 3:1)
Usable temperature range	: -10°C ~ +60°C
Weight	: 1.8kg.
Dimensions	: 310(W) x 81(H) x 110(D)mm (incl. projections)

Icom Inc.  
6-9-16, Kamihigashi, Hirano-ku, Osaka 547, Japan

Count on us!

Printed in Japan  
Copyright © 1988 by Icom Inc.