

**Mizuho** ANTENNA COUPLER  
MODEL AT-2000

## FEATURES:

1. The Coils, the heart of this unit, are the exclusive coils with diameter  $\varnothing 25\text{mm}$  covering the frequencies from Middle Wave-to Short Wave with higher "Q" level.
2. Useable with any antennas and receivers since the coupler circuit applies the Pi-Match method.
3. To reduce the loss caused by the difference of antenna and frequency as much as possible, the AT-2000 is provided with "Q" Selector circuit built-in, which enables you to select the best matching point from 4 positions.

## RATING:

1. Frequency Range ..... 0.5 - 30MHz
2. The Number of Band ..... 8 Bands
3. In & Output Impedance ..... 50 - 600 Ohms
4. External Dimensions ..... 162 (W) x 55 (H) x 101 (D) mm

\* As an accessory, the exclusive connecting cable is provided. Please check.

## CONNECTION OF AT-2000:

When connecting this unit with Antenna and Receiver, please refer to the figures on the right since the connecting terminals are different according to the type of antenna, BCL radio or Communication Receiver.

- (A) When connecting long wire antenna with BCL Radio (Fig. A)

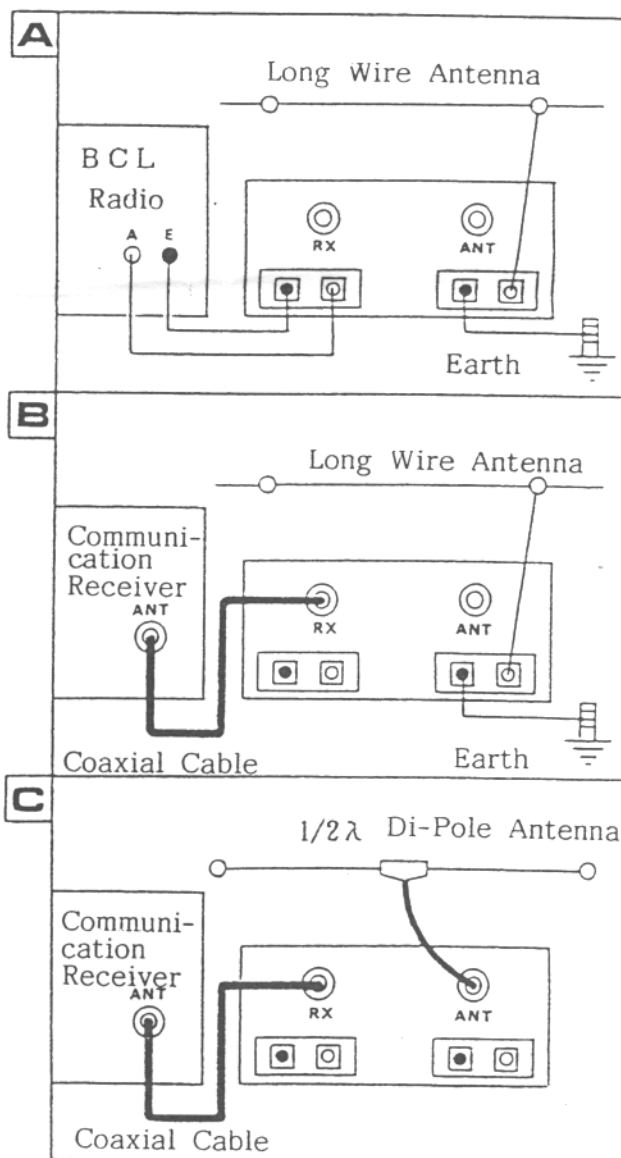
By using the exclusive connecting cord provided with this unit, connect the push terminal of AT-2000(RX) to Antenna Terminal of the radio.

- (B) When connecting long wire antenna with Communication Receiver (Fig. B)

By using the coaxial cable with "M" connector attached, connect "M" type terminal of AT-2000 (RX) with Antenna Terminal of the Receiver.

- (C) When connecting  $1/2$  Di-Pole Antenna with Communication Receiver (Fig. C)

By using the coaxial cable with "M" type connector attached, connect "M" type terminal of AT-2000 (RX) with Antenna terminal of the Receiver, then, in the same manner, connect "M" type terminal of AT-2000 (ANT) to the Power Feeding Line of the Di-Pole Antenna.



## CONTROLS OF AT-2000:

\* The AT-2000 is useable as a Receiving Antenna Coupler for the frequency bands from Middle Wave to Short Wave (0.5 - 30MHz).

① Set the slide switch to the "Coupler".

(When you set to the "Through", the antenna is connected to the Radio directly.)

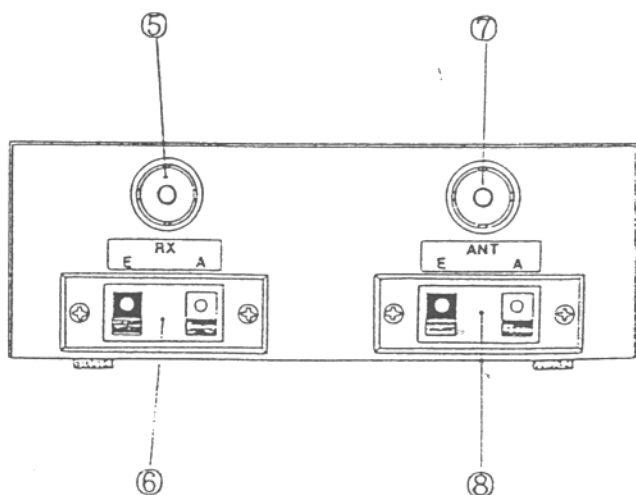
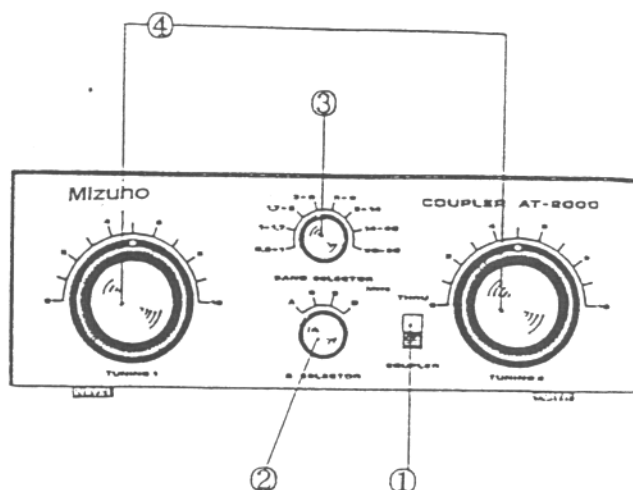
② Set the "Q" Selector knob to "A" tentatively

③ Turn the power switch of Radio on and select the Band including the frequency which you want to receive with "Band Selector" knob. (According to the antenna connected to AT-2000, there may be a small difference between the frequency printed on the front panel and the actual peak sensitivity point.)

④ Tune the both "Tuning 1" and "Tuning 2" with both hands to get the peak sensitive point. If you cannot get the peak point in rotating the Tuning Knobs 1 and 2, in the calibrations range from 0 to 10, set the "Band Selector" knob to other range by one step and try again to get the peak receiving point by controlling the "Tuning 1" and "Tuning 2" alternately.

\* When you cannot find the better point by controlling of ④, above, then, please try to set the "Band Selector" to the other range again and try to tune in the same manner. (Also try to select the "Q" selector knob to other point to get the better receiving point.)

Even when you could find the good tuning point in the controlling of ④, you may get better condition by selecting the "Q" Selector from B to D.



## TERMINALS ON THE REAR PANEL:

⑤..... "M" Connector, to be connected with Communication Type Receiver.

⑥..... Connecting Terminal with BCL Radio and etc. (The Radio without M type connector.)

⑦..... "M" Connector, to be connected with Antenna with Coaxial Cable Power Feeding.

⑧..... The Terminal for Long Wire Antenna and Earth ground.