

FT-180A

HF SSB TRANSCEIVER

YAESU



FT-180A HF SSB SOLID

The FT-180A high performance HF SSB transceiver features compact size and simplicity of operation for mobile or base applications. The electrical and mechanical design of this tough transceiver withstands heavy-duty operation, assuring the user of many years of reliable service.



■ Compact Size

With the size of cars getting smaller and smaller, the installation of other transceivers may prove impossible. But the compact size of the FT-180A makes installation in the smallest of cars a straightforward procedure.

■ Choices of Output Power

The FT-180A allows you to select PA output power of 10W, 50W or 100W (SSB). When ordering your FT-180A from your dealer, be sure to specify the output power you require.

■ 6 Channel Operation

As many as 6 simplex or 3 semi-duplex channels may be installed. Automatic AM selection when switching to a specified channel can be programmed, if you desire this function. All crystals are optional.

■ Effective Noise Blanker

The built-in noise blanker eliminates most noise caused by ignition systems, thus allowing reception of weaker signals during mobile operation, and providing clear, highly readable audio signals.

■ Equipped for DC operation

The FT-180A is equipped for 13.4V DC operation. For base station installations, the FP-700 makes an excellent regulated DC power supply for the FT-180A. Minimum power consumption and a solid state power amplifier make the FT-180A perfect for mobile operation, too.

■ Excellent Frequency Stability

The temperature-controlled crystal oven provides state of the art stability for minimum drift during wide variations in temperature. (Crystal oven optional)

Optional External Remote Control

The FH-180 Remote Control Unit provides convenient operation from as far as 10 meters away from the transceiver. Equipped with a stylish telephone type handset, the remote operator retains complete control over the transceiver through the AF GAIN, TONE CALL, CHANNEL Select, CLARIFIER and transmitter activating (PTT) controls on the FH-180. Connected to the FT-180A by a 10-meter control cable, the FH-180 simply plugs into a jack on the rear of the transceiver. The FH-180 comes equipped with a universal mounting bracket.

Optional Automatic Remote Antenna Tuner

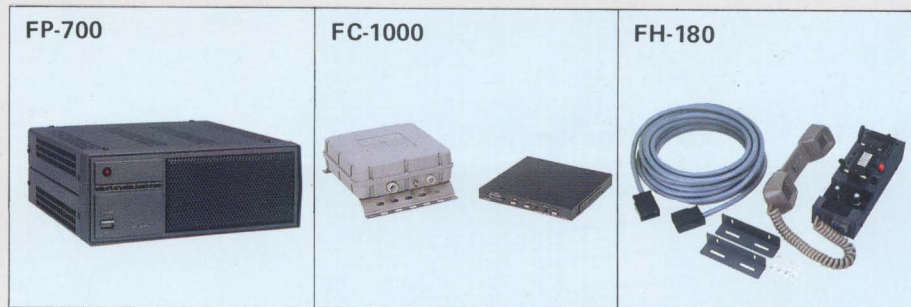
The FC-1000 is a 2-unit microprocessor-controlled matching system covering 1.8 to 30 MHz using a single antenna with up to 150 watts PEP. The waterproof Tuner Unit mounts at the feedpoint of the antenna, which could be in the trunk of a car or at the top of a tower. The Controller Unit installs with the transceiver where the operator can control and monitor automatic operation of the Tuner Unit. After installation and calibration of the FC-1000 (for up to 32 channels), the operator need only press the START button when changing channels: the antenna will be matched to within 1.5:1 SWR in about 3 seconds. While tuning, the FC-1000 automatically reduces transmitter output to 10 watts, to avoid interfering with other stations.

STATE TRANSCEIVER



OPTIONS

- FP-700** AC Power Supply
FC-1000 Automatic Antenna Tuner
YA-10 Single-band dipole antenna
YA-11 Dual-band dipole antenna
YA-12 Tri-band dipole antenna
YA-20 Long-wire antenna* (15m)
YA-30 Broadband dipole antenna
YA-002 Fiberglass whip antenna* (4m long, with feedwire)
YA-003 Fiberglass whip antenna* (6m long, with feedwire)
YA-004 Fiberglass whip antenna* (8m long, with feedwire)
YA-005 Whip antenna with loading coil for mobile use
YA-006 Whip antenna with loading coil for fixed use
YA-007FG Fiberglass whip antenna* (2m long, with feedwire)
YA-008 Whip antenna* with feedwire for fixed use
* Multi-Band, requires FC-1000
(Ask our dealer for Ground Stake and Counterpoise kits)
- SP-3** External Loudspeaker
SP-4 External Loudspeaker with LPF
YA-34 Desk-top Microphone
FH-180 Remote Control Unit
MMB-2 Mobile Bracket



SPECIFICATIONS

GENERAL

- **Frequency coverage:**
1.6–18 MHz (except for ± 1 MHz near 10.7 MHz or 9 MHz*)
- **Emission type:**
A3J/J3E (USB, LSB); A3H/H3E (AM).
(LSB filter optional)
- **Number of channels:**
6 simplex or 3 semi-duplex
- **Operating temperature range:**
 -10°C to $+50^{\circ}\text{C}$
- **Power requirements:**
13.4 volts DC $\pm 10\%$ negative ground
- **Power consumption:**
20 amps transmit, 1 amp receive (100W type)
- **Case size:**
100W type –
95(H) x 240(W) x 310(D) mm
50W type –
95(H) x 240(W) x 290(D) mm
10W type –
95(H) x 240(W) x 260(D) mm
- **Weight:**
100W type – 6 kg.
50W type – 5.5 kg.
10W type – 5.0 kg.

TRANSMITTER

- **Power output:**
As per power amplifiers
SSB – 100 watts; AM – 35 watts
SSB – 50 watts; AM – 17 watts
SSB – 10 watts; AM – 3.5 watts
- **Unwanted sideband suppression:**
Better than 50dB
- **Carrier suppression:**
Better than 40dB
- **Spurious emissions:**
Better than 46dB down
- **Third order distortion products:**
Better than 31dB down
- **Transmitter frequency response:**
300 – 2700Hz (-6 dB)
- **Maximum bandwidth:**
3 KHz (SSB)
- **Stability:**
Better than ± 200 Hz (Better than ± 20 Hz with optional xtal oven)
- **Microphone impedance:**
600 ohms (dynamic)
- **Tone signal:**
1500 Hz
- **Antenna output impedance:**
50 ohms nominal

RECEIVER

- **Sensitivity:**
SSB less than $1\mu\text{V}$ for 20dB S/N
AM less than $10\mu\text{V}$ for 20dB S/N
- **Selectivity:**
SSB 2.4 KHz at -6 dB, 4.0 kHz at -60 dB
AM 6.0 KHz at -6 dB, 12 kHz at -60 dB
- **Receiver type:**
Single conversion superheterodyne
- **Intermediate frequency:**
10.7 MHz (9 MHz*)
- **IF rejection:**
Better than 60dB
- **Spurious response:**
Better than 50dB

* 9MHz IF Model is available as per request.

Specifications subject to change without notice.

FROM:

STAMP
HERE

TO:



YAESU MUSEN CO., LTD.

C.P.O.BOX 1500, TOKYO, JAPAN

YAESU U.S.A.

17210 Edwards Rd. Cerritos, California, 90701 U.S.A.

YAESU EUROPE B.V.

Snipweg 3, 1118AA Schiphol The NETHERLANDS