

FT-7B HF MOBILE TRANSCEIVER

ALL SOLID STATE



HF MOBILE FT-7B: POWER + PERFORMANCE

For the ultimate in operating ease while HF mobile, go with the exciting new FT-7B from YAESU. Extremely small size, light weight, and uncompromising performance are the hallmarks of the FT-7B. With mobile activity on the upswing, don't be left behind! Join the fun with the perky, powerful FT-7B, the latest from the back room at YAESU.

FEATURES

■ Broadband Design

A single knob peaks all transceiver circuits for the frequency in use. The transmitter puts out a husky 50 watts on SSB and CW, and you never have to fumble for plate or load controls while in traffic!

■ Digital Frequency Display Option

The YC-7B outboard digital display unit is an available option for your FT-7B. It can be mounted on the steering column or dash board, for convenient and safe viewing.

■ Ready When You Are

The FT-7B comes ready for operation on 80 through 10 meters on SSB, CW, and AM. Just hook up an antenna and a 13.5 volt DC power source, and you're on the air.

■ Superb Receiver Performance

The receiver front end features MOS FET and Schottky diode circuitry for maximum sensitivity and immunity from overload. For CW, an audio peak filter yields needle-sharp selectivity and a dramatic improvement in signal-to-noise ratio.

■ High Performance Noise Blanker

A state-of-the-art noise blanker effectively minimizes impulse noise that can ruin reception while mobile.

■ Compact Solid-State Design

Fully solid state, the FT-7B draws less current on receive than your auto dash lights. What's more, the FT-7B is not much larger than many 2 meter rigs.

■ Versatility Features

Built-in convenience features include a 100 kHz crystal calibrator, semi-break-in CW with sidetone, and receiver offset tuning (clarifier). You have the choice, too, of the velvety-smooth VFO or an optional fixed channel for frequency control.

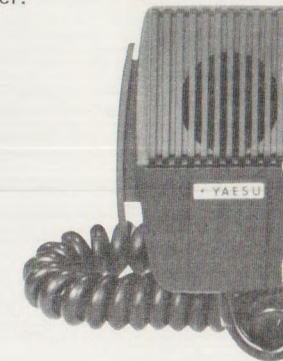
■ Operate from Car of Home

The rugged, no-nonsense front panel and heavy-duty case are built to withstand the rigors of mobile operation. You can use your FT-7B as a compact base station, too, with the FP-12 AC power supply option. At home or away, you can count on many years of enjoyable operation with your new FT-7B. . . from YAESU.

YC-7B outboard digital frequency display option can be mounted on steering column or dash. Big, bright LED display is protected by sunshade for maximum visibility.

MOS FET front end and Schottky diode ring mixer for high sensitivity with excellent immunity from cross modulation.

Extremely compact design for mobile applications. Mobile mounting bracket is included with your transceiver.



RF/AF gain control mounted on top for total operation.

FOR THE HAM ON THE MOVE



YAESU

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Analog frequency display yields resolution to 1 kHz.

Receiver clarifier is a standard feature.

Choice of VFO or optional crystal control.

High-performance noise blanker for minimizing ignition noise.

Choice of SSB, CW or AM operation. Semi-break-in CW with sidetone is included for maximum versatility.

Razor-sharp audio peak filter for CW provides high selectivity and a significant reduction in background noise.

Every FT-7B comes equipped with a 100 kHz crystal calibrator.

80 through 10 meter coverage is provided. Don't be left out of the fun as band conditions improve!

Single-knob peaking of all transceiver circuits. Husky 50 watts RF output on SSB and CW.

Over-size main tuning dial with finger recess for easy tuning. Knob is geared to precision dial mechanism for velvety-smooth tuning with excellent mechanical stability.

controls are
concentric shafts
for convenience.

SPECIFICATIONS

GENERAL

Frequency coverage: 80 m 3.5 - 4.0 MHz, 40 m 7.0 - 7.5 MHz, 20 m 14.0 - 14.5 MHz, 15 m 21.0 - 21.5 MHz, 10 m A 28.0 - 28.5 MHz **, 10 m B 28.5 - 29.0 MHz, 10 m C 29.0 - 29.5 MHz **, 10 m D 29.5 - 29.9 MHz **
** 28.5 - 29.0 MHz crystal installed, other crystals available as options.

Power requirements: 13.5 VDC \pm 10% @ 10A transmit, 0.6A receive.

Dimensions: 230(W) x 80(H) x 320(D) mm including heat sink.

Weight: 5.5kg.

TRANSMITTER

Emission: SSB, CW, AM
Input power: SSB, CW 100 watts DC, AM 25 watts.
Carrier suppression: Better than 50 dB below rated output.
Unwanted sideband suppression: Better than 50 dB @ 1000Hz.
Spurious emission: Better than -40 dB.
Distortion products: Better than -31dB.

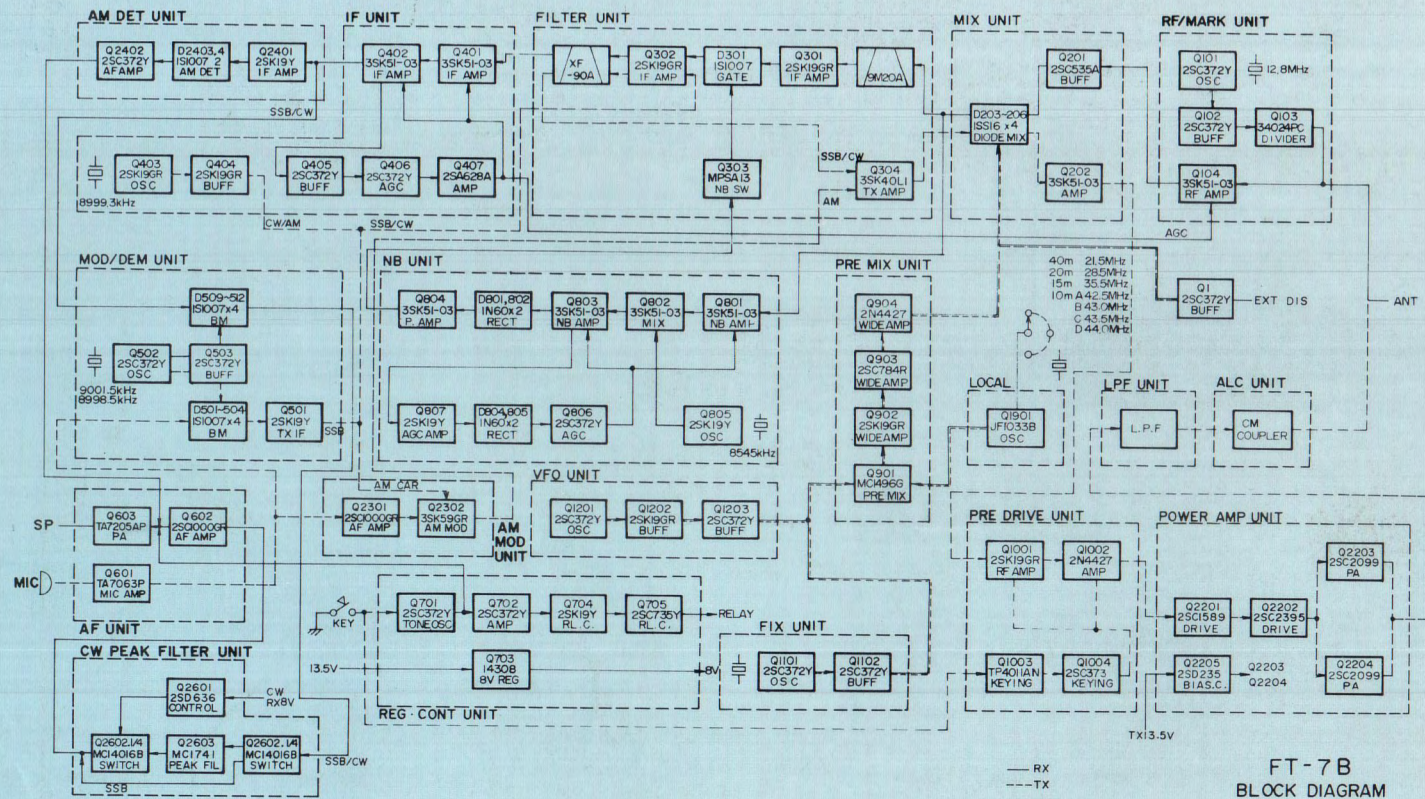
RECEIVER

Transmitter frequency response: 350-2700 Hz (-6 dB)
Frequency stability: Less than 300 Hz drift from a cold start, less than 100 Hz drift over a 30 minute period after warmup.

Antenna output impedance: 50 ohms nominal.
Microphone input impedance: 500 ohms nominal.

Sensitivity: 0.25 μ V for S/N 10 dB.
Image rejection: Better than 60 dB 80-15 meters. Better than 50 dB 10 meters.
IF rejection: Better than 50 dB.
Selectivity: 2.4 kHz (-6 dB), 4.0 kHz (-60 dB)
CW Audio peak filter: 80 Hz (-6 dB), adjustable.
Audio output: 3 watts @ 10% THD
Audio output impedance: 4 ohms

Specifications subject to change without notice.



FT-7B
BLOCK DIAGRAM

Specifications are subject to change without notice due to design changes.



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