

ADVANCED AMATEUR RADIO EQUIPMENT FOR THE SEVENTIES FROM YAESU



- **Advanced Amateur Communications Equipment from the World's Leader in Communications Products**

This catalogue offers you the finest line of amateur radio equipment available today.

At Yaesu Musen Company, amateur radio equipment is our only business; in many other companies it is only a sideline. We are dedicated to the advancement of amateur product technology.

- **Total Spectrum Coverage from 160 thru 2 Meters with Equipment for Every Application:**

- * **Mobile**

- * **Portable**

- * **Base**

Over 130 licensed radio amateurs employed at Yaesu proudly offer you the most diversified communications product line available; SSB, CW, AM & FM equipment - all designed for today's active amateur.

- **Advanced Concepts in Design Technology**

Innovation has been the key to YAESU'S success in the amateur market. Yaesu was the first to integrate "computer type", glass-epoxy, plug-in modules into amateur radio equipment. A flexible and a versatile line of accessories provide the operating convenience which the demanding amateur requires.

ALL PRICES ARE *NETT*.

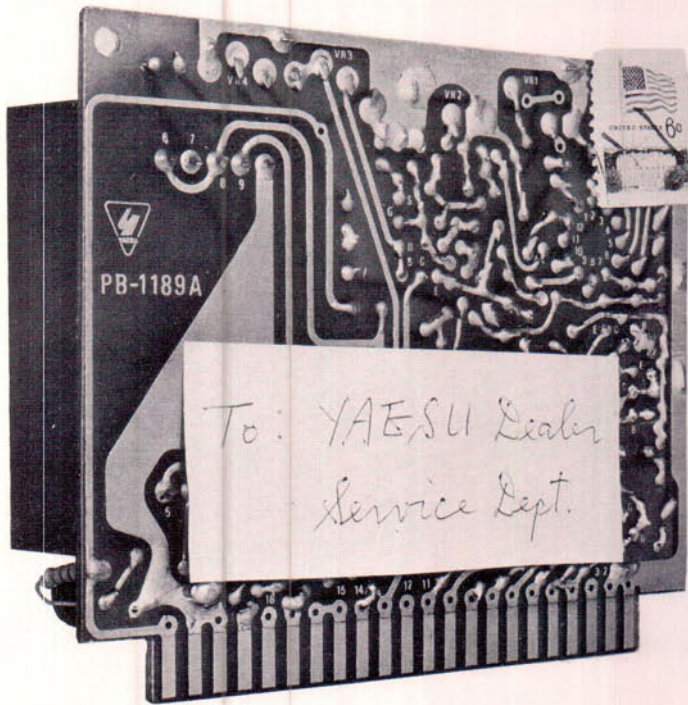
Repair by Mail

World Wide Sales & Service Network

Whatever your location, your Yaesu distributor is ready to assist you with your needs. Our new modular plug-in system allows you to mail a module directly to your nearest authorized dealer for immediate service.

Visit Your Dealer Today

There are many reasons for you to choose Yaesu and they are best summed up as **PERFORMANCE AT THE RIGHT COST**. Your dealer will proudly demonstrate why the finest sounding signals heard around the world originate from YAESU equipment.



WARRANTY POLICY

We warrant this equipment against defects in material or workmanship, with the exception of tubes and semiconductors, for a period of one year from the date of original purchase. This warranty is limited to repairing or replacing only the defective parts, and is not valid if the equipment has been tampered with, misused or damaged. If service or repair is required within the warranty period, repair will be made free of charge by the dealer through whom the equipment was purchased. If the owner requires any service or repair to any dealer through whom the equipment was not purchased, the repairing cost must be paid by the owner.

This warranty is valid if the enclosed card is properly filled in and mailed to the dealer through whom the equipment was purchased within ten days from the date of purchase, and is limited to the terms and conditions contained herein.

The manufacturer retains the right to make changes or modifications without any notice or obligation to the owner of this equipment.

YAESU MUSEN CO., LTD.

FT 75

R 311-00

FT 501

R 697-00

Deluxe Mobile/Base Station FT-101E/EE

FT 101E R 748.00
 101 EE R 698.00
 101 EX R 611.00

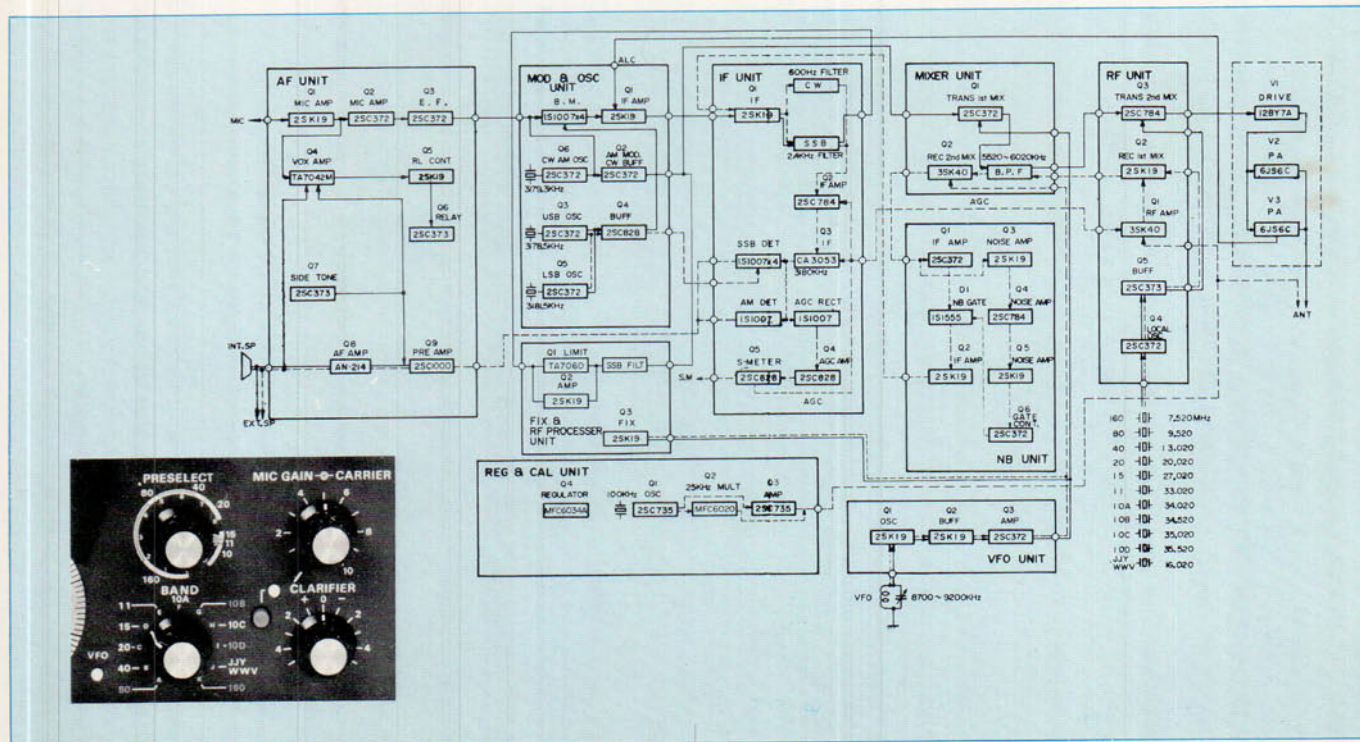


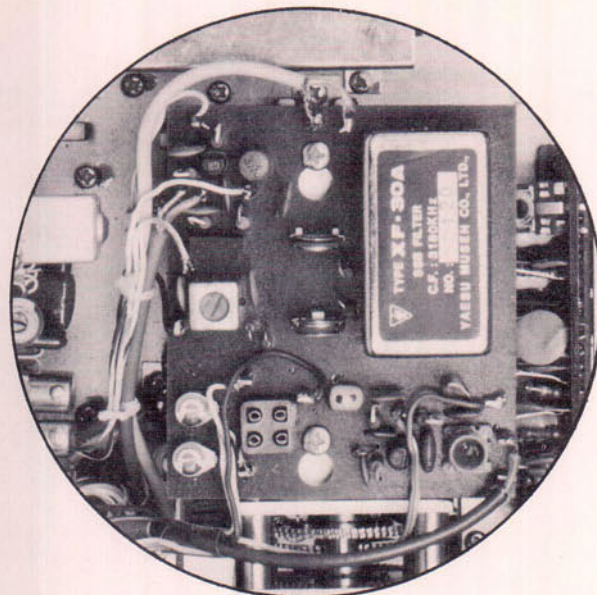
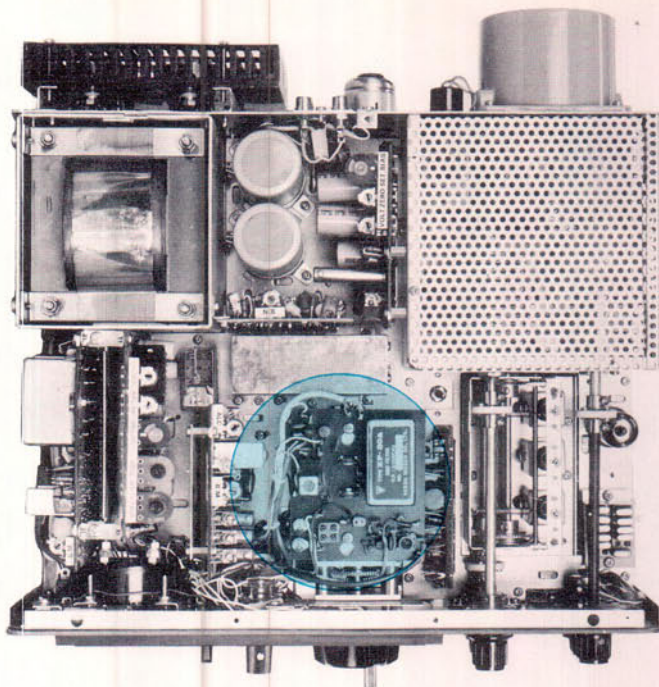
E MODEL WITH R.F.PROCESSOR
 EE MODEL LESS R.F.PROCESSOR

• Solid State 160 thru 10 Meter Transceiver

The world's number one transceiver now offers even more value and performance in one, compact, thirty pound package. An effective, RF Speech Processor is a built-in integral part of this exciting transceiver. Now you can realize that extra talk power to cut through the pile ups - without the addition of a linear amplifier. Except for the final and driver stages, the FT-101E/EE features the latest in solid state technology, incorporating time proven, plug-in

"computer type" modules for unparalleled reliability and servicability. New lever type switches offer easier operation. Here is a complete radio station designed to go anywhere - ideal for todays active amateur. Just add an antenna and 12 VDC or 100-234 VAC for instant operation on 160 thru 10 meters. The FT-101E/EE is another step forward in amateur communications from the world's leader in communications equipment YAESU- The Radio Company.





Built in R.F. Speech Processor

Features

- * Built-in AC & DC power supplies
- * Built in RF-speech Processor for increased talk power (E model only)
- * 260 Watts PEP SSB, 180 Watts CW, & 80 Watts AM.
- * Factory sealed, solid state VFO for optimum stability and accurate 1 KHz readout
- * Effective Noise Blanker, threshold adjustable, for elimination of noise spikes
- * Built-in, fully adjustable VOX
- * Automatic break-in CW operation with sidetone
- * Selectable 25 KHz and 100 KHz calibrator
- * ± 5 KHz receiver clarifier w/separate ON/OFF switch
- * Built-in WWV/JJY reception
- * Heater switch to shut off final tubes for conservation of current drain

- * Reliable easy to operate lever switch
- * Adjustable carrier level for tune-up and novice operation
- * Built-in speaker
- * High-Q, permeability tuned, RF stages to provide the performance required even in base station operation.
- * Includes dynamic, hand-held type microphone
- * Indicator lights for internal VFO and clarifier operation
- * Eight pole SSB filter for unparalleled selectivity on today's crowded bands
- * All mode operation — SSB, CW, & AM
- * Built-in internal crystal control provision and Dual VFO adaptor
- * Complete line of compatible accessories for flexible station design

Specifications

GENERAL

Frequency Range: 1.8–2.0 MHz, 3.5–4.0 MHz, 7.0–7.5 MHz, 14.0–14.5 MHz, 21.0–21.5 MHz, 27.0–27.5 MHz (receive only), 28.0–30.0 MHz, WWV 10.0–10.5 MHz (receive only). One auxiliary 500 KHz segment is available except for IF and VFO frequency range. (Heterodyne crystal for 1.8–2.0 MHz is available optionally.)

Mode: Selectable USB, LSB, CW or AM.

Frequency Stability: Within 100 Hz during any 30 minute period after warm-up. Not more than 100 Hz with 10% line voltage variation.

Calibration Accuracy: 2 KHz maximum after 100 KHz calibration.

Backlash: Not more than 50 Hz.

Antenna Impedance: 50 to 75 Ohm unbalanced nominal.

Circuitry: 40 Transistors, 3 Integrated Circuits, 38 Diodes and 3 Tubes.

Power Requirement: 100/110/117/200/220/234 V AC, 50/60 Hz, 350 Watts maximum, or 13.5 V DC nominal, 5 A for standby, 0.5 A for receive (Heater OFF) and 20 A for transmit.
Size: 340(W) x 153(H) x 285(D) m/m.
Weight: 15 kg.

RECEIVER

Sensitivity: 0.3 μ V for 10 dB Noise plus Signal to Noise Ratio on 14 MHz.

Selectivity: 2.4 KHz nominal bandwidth at 6 dB down, 4.0 KHz at 60 dB down on SSB, CW and AM. 600 Hz nominal bandwidth at 6 dB down, 1.2 KHz at 60 dB down with optional CW filter.

Harmonic & Other Spurious Response: Image Rejection better than 50 dB. Internal Spurious Signal below 1 μ V equivalent to antenna input.

Automatic Gain Control: AGC threshold nominal 3 μ V. Attack time 8 milli-

second and release time 1800 milli-second.

Audio Noise Level: Not less than 40 dB below 1 watt.

Audio Output: 3 Watts to internal or external speaker at 4 Ohm impedance.

Audio Distortion: Less than 10% at 3 Watts output.

TRANSMITTER

Input Power: 260 Watts PEP on SSB, 180 Watts on CW at 50% duty cycle and 80 Watts on AM except for 160 meter. (Slightly lower on 10 meter.)

Microphone: 50 K Ohm dynamic type.

Carrier Suppression: -50 dB.

Sideband Suppression: -50 dB.

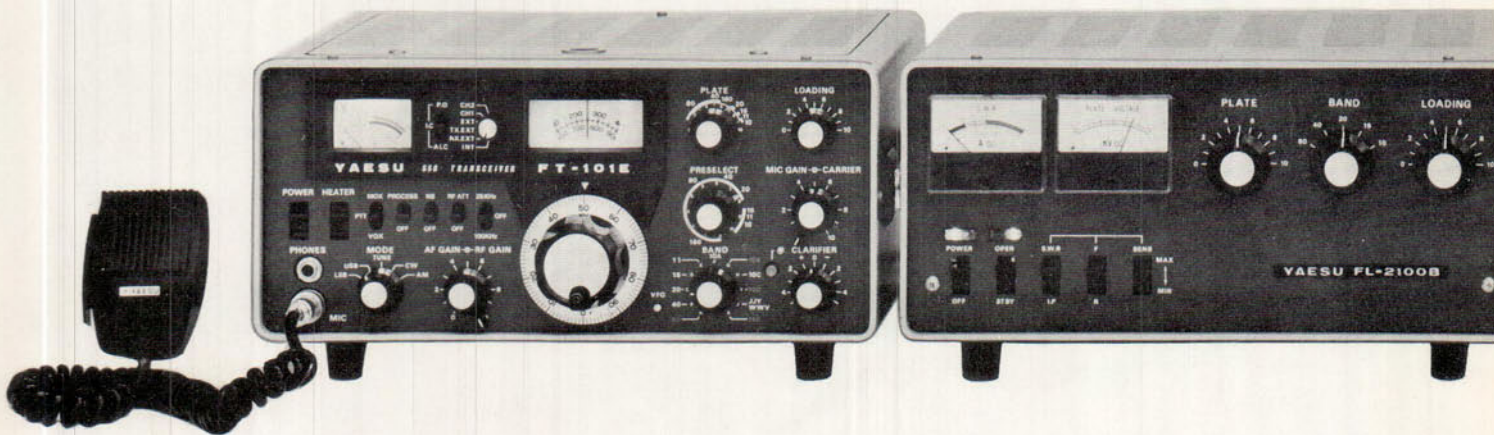
Spurious Radiation: -40 dB.

Distortion Products: -30 dB.

Frequency Response: 350 to 2700 Hz ± 3 dB.

Final Tube: 6JS6C x 2.

FT-101E Accessories for Flexible &



● 1200 Watt Linear Amplifier FL-2100B *R399-00*

The FL-2100B is a conservatively rated matching amplifier for the FT-101E. This amplifier features two rugged 572B carbon plate tubes in a class B grounded-grid circuit with individually tuned input coils for each band. The FL-2100B operates on 80 thru 10 Meters with dual cooling fan and a solid-state power supply with an effective 28 μ F filter system, providing reserve ratings and linear operation. Dual

interlocks offer safety and shock protection. An automatic changeover circuit biases the tubes to cut off on receive to maximize tube life and minimize heat. Bifilar wound, ferrite filament chokes guarantee minimum RF transfer to the power source. The FL-2100B offers maximum performance in one compact package.

Features

- * Conservative, 1200 Watts PEP input on 80-10 Meters
- * Easy primary voltage change from 117-234 VAC
- * Dual front panel meters provide continuous monitoring of plate current and voltage

- * Built-in, front panel adjustable SWR meter
- * Individually tuned input coils on each band for maximum efficiency and minimum distortion

Specifications

Frequency Range: 3.5–4.0 MHz, 7.0–7.5 MHz, 14.0–14.5 MHz, 21.0–21.5 MHz, and 28.0–30.0 MHz.
Plate Input Power: 1200 Watts PEP on SSB, 800 Watts on CW at 50% duty cycle and 600 Watts on AM and RTTY.

Drive Requirement: 30 to 100 Watts.
Input Impedance: 50 Ohm unbalanced.
Output Impedance: Nominally 50 Ohm unbalanced with not more than 2.1 SWR

Distortion Products: –30 dB at 1200 Watts input.

Noise Level: 40 dB below single tone carrier.

Circuitry: A pair of 572B in ground grid circuit.

Power Requirement: 100/110/117/200/220/234 V AC, 50/60 Hz, 2100 Watts.

Size: 340(W) x 153(H) x 285(D) mm.
Weight: 18.5 Kg.



Simplified Station Design



● External VFO FV-101B *R 81-00*

Match up the FV-101B with your FT-101B and open up a new world of operating flexibility. DX'ers will particularly appreciate this combination. The FV-101B features the same factory sealed, solid state VFO with 1 KHz readout that is found in the FT-101B. A dual VFO adaptor is built-into the FT-101B to accept a simple, plug-in cable. The FV-101B includes a fixed channel oscillator for up to four crystal controlled channels on any band - 160 thru 10 meters.

Specifications

Frequency Range: 8.7 to 9.2 MHz.
Frequency Stability: Within 100 Hz in any 30 minute period after warmup.
Power Source: FT-101B.
Size: 210(W)x153(H)x285(D)m/m.
Weight: 3.5 Kg.

Optional Accessories

● 600 Hz CW Filter XF-30C

An optional CW filter providing 600 Hz at 6 dB/1.2 KHz at 60 dB skirt selectivity for enjoyable CW operation. The XF-30C is easily installed in minutes.

● Mobile Mounting Bracket MMB-1

The MMB-1 is a floor type mount designed for an "over the hump" installation. It mounts directly to floor and enables the transceiver to be positioned at an optimum angle for easy viewing and operation.

● RF Speech Processor for FT-101EE RFP-102

● Speaker/Phone Patch Console SP-101PB

To compliment your station, add the SP-101PB speaker/phone patch console. It features a shaped response speaker from 300 to 3000 Hz - ideal for quality communications reproduction. Built-into this matched unit is a hybrid phone patch with individual gain controls for receiver-to-line and line-to-transmitter levels. A VU meter monitors the phone line audio level. Full VOX phone patch operation is possible with SP-101PB. Add this exciting accessory to your station today.

Specifications

Receiver Input Impedance: 4 or 600 Ohm.
Output Impedance: 600 Ohm or high impedance.
Size: 210(W)x153(H)x285(D)m/m.
Weight: 3 Kg.

● Cooling Fan FA-9

The FA-9 is a low noise, muffin type fan which easily mounts on the rear panel of the FT-101B. Operating voltage is supplied through a plug-in connector and the fan functions in both mobile and base installations.

● Speaker Console *R 29-00* SP-101B

Same as SP-101PB above but without hybrid phone patch.

● Dynamic Base Microphone YD-844

R 33-50

High Power Base Station FT-401B



● 560 Watt 80 thru 10 Meter Transceiver

YAESU's years of experience in the amateur radio field is exemplified in the FT-401B.

This is a professionally engineered transceiver for the uncompromising radio amateur.

Features

- * Built-in 100/110/117/200/220/234 VAC power supply
- * 560 Watts PEP SSB, 430 Watts CW and 90 Watts AM (Slightly Lower on 10 meter).
- * Automatic break-in CW operation with sidetone
- * Selectable 25 KHz and 100 KHz calibrator
- * ± 5 KHz receiver clarifier
- * Built-in WWV/JJY reception
- * Built-in Noise Blanker, threshold adjustable, for effective DX operation
- * Six pole, passive IF crystal filter with 1.6:1 shape factor for optimum SSB audio quality
- * Stable, solid state linear tuning VFO with 1 KHz readout and velvet-smooth, zero backlash, planetary gear tuning
- * All mode operation - SSB, CW, & AM
- * Built-in final amplifier cooling fan
- * Complete line of compatible accessories for flexible station design

Specifications

GENERAL

Frequency Range: 3.5–4.0 MHz, 7.0–7.5 MHz, 14.0–14.5 MHz, 21.0–21.5 MHz, 27.0–27.5 MHz (receive only), 28.0–30.0 MHz, WWV 10.0–10.5 MHz (receive only). Two auxiliary 500 KHz segments are available except for IF and VFO frequency range.

Mode: Selectable USB, LSB, CW or AM
Frequency Stability: Within 100 Hz during any 30 minute period after warm-up. Not more than 100 Hz with 10% line voltage variation.

Calibration Accuracy: 2 KHz maximum after 100 KHz calibration.

Backlash: Not more than 50 Hz.

Antenna Impedance: 50 to 75 Ohm unbalanced nominal.

Circuitry: 13 Transistors, 4 FET, 43 Diodes and 20 Tubes.

Power Requirement: 100/110/117/200/220/234 V AC, 50/60 Hz, 550

Watts maximum.

Size: 400(W) x 160(H) x 350(D) m/m.

Weight: 18 Kg.

RECEIVER

Sensitivity: 0.5 μ V for 10 dB Noise plus Signal to Noise Ratio on 14 MHz.

Selectivity: 2.4 KHz nominal bandwidth at 6 dB down, 4.0 KHz at 60 dB down on SSB, CW and AM. 600 Hz nominal bandwidth at 6 dB down, 1.2 KHz at 60 dB down with optional CW filter.

Harmonic & Other Spurious Response: Image Rejection better than 50 dB. Internal Spurious Signal below 1 μ V equivalent to antenna input.

Automatic Gain Control: AGC threshold nominal 1 μ V. Selectable AGC time constant, fast or slow. Attack time 2 milli-second. Fast release time 1 second and slow release time 2

seconds.

Audio Noise Level: Not less than 40 dB below 1 Watt.

Audio Output: 3 Watts at 8 Ohm impedance.

Audio Distortion: Less than 10% at 1 Watt output.

TRANSMITTER

Input Power: 560 Watts PEP on SSB, 430 Watts on CW at 50% duty cycle and 90 Watts on AM. (Slightly lower on 10 meter.)

Microphone: 50 K Ohm dynamic type.

Carrier Suppression: -40 dB.

Sideband Suppression: -50 dB.

Spurious Radiation: -40 dB.

Distortion Products: -30 dB.

Frequency Response: 350 to 2700 Hz ± 3 dB.

Final Tube: 6KD6 x 2.

Optional Accessories

● Speaker/Phone Patch Console SP-401PB

Add the final touch to your FT-401B station with the matching SP-401PB speaker/phone patch console. The features and specifications are identical to the SP-101PB console for the FT-101E.

● 600 Hz CW Filter XF-31C

Optional CW filter provides: 600 Hz at 6 dB/1.2 KHz at 60 dB selectivity.

● Speaker Console SP-401B

Same as SP-401PB above but without hybrid phone patch.

● Dynamic Base Microphone YD-844

Deluxe "101" Series. The Ultimate Base FR-101S Receiver *R497-00*



● Solid State Receiver with Total Spectrum Coverage 160 thru 2 Meter plus Provision for Major Short Wave Broadcast Bands

Advanced communications technology now brings you a total coverage, solid-state communications receiver. The FR-101S has the flexibility that even the most demanding amateur desires-with provision for all mode reception on twenty-one 500 KHz amateur and shortwave bands from 160 thru 2 Meters. This versatile receiver is capable of transceive or external VFO control with the matching

FL-101 transmitter or FT-101E transceiver. New, solid-state technology, with features such as a double-balanced mixer, offer unparalleled performance and rejection of cross-modulation and intermodulation interference. Build your total performance base station with the addition of the FR-101S communications receiver.

Features

- * Total coverage capability: 160 thru 2 meters plus major short wave broadcast bands
- * Provision for all mode reception: SSB, CW, AM, RTTY, and FM
- * Complete transceive capability with all 101 series equipment
- * Reliable, plug-in circuit boards for service simplicity

- * Selectable fast or slow AGC
- * Built-in, threshold adjustable, noise blanker
- * Better than 1 KHz readout on all bands
- * Fixed channel, crystal control operation
- * ± 5 KHz clarifier
- * Built-in calibrator 25 or 100 KHz (selectable)
- * Indicator lights for internal VFO and clarifier operation
- * Built-in AC power supply and 12 V DC operation.

Specifications

Frequency Range: 160 M 1.8–2.0 MHz, 80 M 3.5–4.0 MHz, 60 M 4.5–5.0 MHz*, 40 M 7.0–7.5 MHz, 31 M 9.5–10.0 MHz*, 25 M 11.5–12.0 MHz*, 20 M 14.0–14.5 MHz, 19 M 15.0–15.5 MHz*, 16 M 17.5–18.0 MHz*, 15 M 21.0–21.5 MHz, 13 M 21.5–22.0 MHz*, 11 M 25.5–26.0 MHz*, CB 27.0–27.5 MHz*, 10A 28.0–28.5 MHz, 10B 28.5–29.0 MHz, 10C 29.0–29.5 MHz*, 10D 29.5–30.0 MHz*, VHF6 M 50.0–52.0 MHz* or 52.0–54.0 MHz*, VHF2 M 144–146 MHz* or 146–148 MHz*, and additional four bands of 500 KHz segment within 4.0–4.5 MHz*, 5.0–5.2 MHz*,

7.5–9.0 MHz* and 22.0–27.0 MHz*.
Mode: Selectable USB, LSB, CW, AM, FM* or RTTY*
Frequency Stability: Within 100 Hz during any 30 minute period after warm-up. Not more than 100 Hz with 10% line voltage variation.
Calibration Accuracy: 1 KHz maximum after 100 KHz calibration.
Backlash: Not more than 50 Hz.
Antenna Impedance: 50 Ohm unbalanced nominal.
Circuitry: 20 Transistors, 12 FET, 4 Integrated Circuits and 33 Diodes.
Power Requirement: 100/110/117/200/220/234 V AC, 50/60 Hz, or 13.5 V DC nominal.

Sensitivity: 0.3 μ V for 10 dB Noise plus Signal to Noise Ratio on 14 MHz for SSB and CW. 1 μ V for AM on 14 MHz. 12 dB SINAD for FM reception.
Selectivity: 2.4 KHz nominal bandwidth at 6 dB down, 4.0 KHz at 60 dB down on SSB, CW and RTTY. 600 Hz nominal bandwidth at 6 dB down, 1.5 KHz at 60 dB down with optional CW filter. 6.0 KHz nominal bandwidth at 6 dB down, 12 KHz at 60 dB down with optional AM filter. 20 KHz nominal bandwidth at 6 dB down, 45 KHz at 60 dB down with optional FM filter.

(Continue to next page)

Station Combination FL-101 Transmitter



● Solid State 160 thru 10 Meter Transmitter

Here is the ideal companion designed to compliment the FR-101S and offer total base station performance and versatility. The latest, solid-state techniques and circuitry are utilized throughout this advanced transmitter. The FL-101 features a new, patented, variable temperature compensated VFO to give unmatched stability with better than 1 KHz readout and zero dial backlash on all bands.

Features

- * 160 thru 10 Meter coverage with 2 auxiliary bands
- * All mode operation: SSB, CW, AM and FSK
- * 240 Watts PEP
- * Reliable, plug-in circuit boards for service simplicity
- * Built-in final cooling fan

Specifications

Frequency Range: 1.8–2.0 MHz, 3.5–4.0 MHz, 7.0–7.5 MHz, 14.0–14.5 MHz, 21.0–21.5 MHz, and 28.0–30.0 MHz. Two auxiliary 500 KHz segments are available except for IF and VFO frequency range.

Mode: Selectable USB, LSB, CW, AM or FSK. (Shift frequency of FSK is set to 170 Hz and can be modified for other frequencies.)

Frequency Stability: Within 100 Hz during any 30 minute period after warm-up. Not more than 100 Hz with 10% line voltage variation.

Calibration Accuracy: 2 KHz maximum after 100 KHz calibration.

Backlash: Not more than 50 Hz.

Antenna Impedance: 50 Ohm unbalanced nominal.

Circuitry: 12 Transistors, 6 FET, 4 Integrated Circuits, 28 Diodes and 3 Tubes.

Power Requirement: 100/110/117/200/220/234 V AC, 50/60 Hz, 200 Watts.

Input Power: 240 Watts PEP on SSB, 180 Watts on CW at 50% duty cycle and 80 Watts on AM and RTTY. (Slightly lower on 10 meter.)

Carrier Suppression: –40 dB.

Sideband Suppression: –40 dB.

Harmonic & Other Spurious Radiation: Less than 40 dB.

Distortion Products: –30 dB.

Noise Level: 40 dB below single tone carrier.

Audio Input: 50 K Ohm dynamic microphone or SP-101PB phone patch.

Frequency Response: 350 to 2700 Hz \pm 3 dB.

CW Sidetone: Provision for monitoring keying in receiver.

Size: 340(W) x 153(H) x 285(D) m/m.

Weight: 14 Kg.

(FR-101S Specifications)

Harmonic & Other Spurious Response: Image Rejection better than 60 dB. Internal Spurious Signal below 1 μ V equivalent to antenna input.

Automatic Gain Control: AGC threshold nominal 1 μ V. Selectable AGC

time constant, fast or slow. Fast attack time 3 milli-second and slow attack time 4 milli-second. Fast release time 0.5 second and slow release time 2 seconds.

Audio Noise Level: Not less than 40 dB below 1 Watt.

This flexible transmitter operates on all modes and may be operated in conjunction with the FR-101S in split or transceive operation. An optional RF speech processor may be added for that extra "talk power" needed on today's crowded bands. Match up the FL-101 with the FR-101S and a complete line of compatible accessories, for the ultimate in base station operation and performance.

- * Built-in AC supply-adjustable from 100 to 234 VAC
- * Built-in, fully adjustable VOX
- * Automatic break-in CW operation with sidetone
- * Indicator light for internal VFO operation
- * Provision for optional RF speech processor

Audio Output: 2 Watts at 4 Ohm impedance.

Audio Distortion: Less than 10% at 2 Watts output.

Size: 340(W) x 153(H) x 285(D) m/m.

Weight: 9 Kg.

(* crystals and VHF converters optional)

VHF Mobile/Base Station FT620B 6 Meter Transceiver



● VHF DX is Now Achievable with the FT620B VHF SSB Transceiver

Join the action and DX on 6 Meters with our new, all solid state, 10 Watt SSB, CW and AM transceiver. The FT620B features, in one compact unit, complete band coverage in eight, 500 KHz segments with 1 KHz VFO readout across the entire band. Provision for up to four crystal controlled channels in each of the eight band segments, a receiver

offset clarifier, and an effective noise blanker; all add up to total operating flexibility. A built-in AC and DC power supply adds to the portability of the FT620B transceiver. Add up all the features, and you have another total performance transceiver for the leader in amateur radio equipment.

Specifications

GENERAL

Frequency Range: 50.0–50.5 MHz, 50.5–51.0 MHz, 51.0–51.5 MHz, 51.5–52.0 MHz, 52.0–52.5 MHz, 52.5–53.0 MHz, 53.0–53.5 MHz and 53.5–54.0 MHz. (For 52.0–54.0 MHz crystals are optional.)

Mode: Selectable USB, LSB, CW or AM.

Frequency Stability: Within 100 Hz during any 30 minute period after warm-up. Not more than 100 Hz with 10% line voltage variation.

Calibration Accuracy: 2 KHz maximum after 100 KHz calibration.

Backlash: Not more than 50 Hz.

Antenna Impedance: 50 Ohm unbalanced nominal.

Circuitry: 35 Transistors, 7 FET, 2 Integrated Circuits and 40 Diodes.

Power Requirement: 100/110/117/200/220/234 V AC, 50/60 Hz, 60 Watts maximum, or 13.5 V DC nominal, 0.3 A for receive and 2 A for transmit.

Size: 280(W) x 125(H) x 295(D) m/m.
Weight: 8 Kg.

RECEIVER

Sensitivity: 0.5 μ V for 10 dB Noise plus Signal to Noise Ratio on SSB and CW. 1 μ V on AM.

Selectivity: 2.5 KHz nominal bandwidth at 6 dB down, 4.1 KHz at 60 dB down on SSB and CW. 6 KHz nominal bandwidth at 6 dB down, 10 KHz at 60 dB down on AM.

Harmonic & Other Spurious Response: Image Rejection better than 60 dB. Internal Spurious Signal below 1 μ V equivalent to antenna input.

Automatic Gain Control: AGC threshold nominal 1 μ V. Attack time 5 millisecond and release time 1.5 seconds.

Audio Noise Level: Not less than 40 dB below 1 Watt.

Audio Output: 2 Watts to internal or external speaker at 4 Ohm impedance.

Audio Distortion: Less than 10% at 2 Watts output.

TRANSMITTER

Input Power: 24 Watts PEP on SSB, 20 Watts on CW at 50% duty cycle and 8 Watts on AM.

Microphone: 50 K Ohm dynamic type.

Carrier Suppression: -40 dB.

Sideband Suppression: -40 dB.

Spurious Radiation: -60 dB.

Distortion Products: -25 dB.

Frequency Response: 350 to 2700 Hz.

FT-221 2 Meter Transceiver

R604-00



● Solid State Ultimate 2 Meter Transceiver with Versatile SSB/FM/CW/AM Operation

Here is a compact, versatile transceiver designed for the active 2 meter enthusiast. The FT-221 features all mode operation—SSB/FM/CW/AM—with repeater offset capability. Advanced phase lock loop circuitry offers unsurpassed stability and clean spurious free signals. Modular, computer type construction offers reliability and ease of service. Pre-

set pass band tuning provides the optimum selectivity and performance needed on today's active 2 meter band. Join the fun on FM, DX, or OSCAR, with the FT-221 transceiver. Another winner from the world's leader in amateur communications equipment.

Features

- * Complete 144-148 MHz coverage in 8 band segments
- * Dual rate, concentric VFO dial drive with better than 1 kHz readout
- * Built-in AC & DC power supplies
- * SSB/CW/FM/AM operation
- * Selectable ± 600 kHz repeater offset
- * Built-in VOX and break-in CW
- * External tone input connector
- * Built-in 100 kHz calibrator
- * Built-in effective noise blanker
- * Three way metering: S meter, power output, and FM discriminator
- * 11 crystal channels per band segment = Total 88 channel
- * SSB output 12 watts PEP
FM/CW output 14 watts
AM output 2.5 watts
- * Built-in speaker

Specifications

GENERAL

Frequency Range: 144.00 to 148.00 MHz in eight 500 kHz segments.

Mode: SSB (selectable USB or LSB), AM, FM or CW.

Frequency Stability: Within 100 Hz during any 30 minute period after warm-up. Not more than 20 Hz with 10% line voltage variation.

Calibration Accuracy: 1 kHz maximum after 100 kHz calibration.

Backlash: Not more than 50 Hz.

Antenna Impedance: 50 ohm unbalanced nominal.

Power Requirement: 100/110/117/200/220/234 V AC, 50/60 Hz, 100 VA maximum or 13.5 V DC, 3A

transmit maximum (11.5–16.5 V DC).
Size: 200(W) x 125(H) x 295(D) m/m.
Weight: 8.5 kg.

RECEIVER

Sensitivity: 0.5 μ V for 10 dB Noise plus Signal to Noise Ratio on SSB/CW. 1.0 μ V for 10 dB Noise plus Signal to Noise Ratio with 400 Hz 30% modulation on AM. 0.75 μ V for 20 dB quieting on FM.

Selectivity: 2.4 kHz nominal bandwidth at 6 dB down, 4.1 kHz at 60 dB down on SSB/CW/AM. ± 6 kHz nominal bandwidth at 6 dB down, ± 12 kHz at 60 dB down on FM. (8 kHz or 15 kHz filter is available on request.)

Harmonic & Spurious Response:

Image Ratio better than 60 dB.

Audio Output: 2 Watts to internal or external speaker at 4 ohm impedance.

Squelch Threshold: Less than 0.3 μ V.

I.F. Frequencies: SSB/AM/CW 10.7 MHz, FM 10.7 MHz and 455 kHz.

TRANSMITTER

Spurious Radiation: -60 dB.

Frequency Response: Balanced SSB 300 to 2700 Hz ± 3 dB. Low power AM better than 60%. Variable reactance FM ± 5 kHz maximum.

Carrier Suppression: -50 dB.

Sideband Suppression: -50 dB.

You, too, can enjoy the action on FM with your own FT-224.

Specifications

GENERAL

Frequency Range: 144 to 146 MHz or 146 to 148 MHz.

Number of Channels: 23 plus 1 priority channel.

Mode: FM.

Frequency Stability: $\pm 0.001\%$.

Antenna Impedance: 52 Ohm unbalanced.

Circuitry: 30 Transistors, 23 Diodes, 4 IC, 5 FET.

Power Source: 13.5 VDC.

Power Requirement: 0.4 A receive, 2.2 A transmit (DC).

Size: 180(W)x70(H)x220(D) m/m.

Weight: 2.5 Kg.

RECEIVER

Sensitivity: $0.3 \mu\text{V}$ for 20 dB quieting

Selectivity: 15 KHz at 6dB, 25 KHz at 60dB.

Audio Output: 2.5 Watts at 4 Ohm

TRANSMITTER

RF Output Power: 1 or 10 Watts.

Spurious Radiation: -60 dB better than -60 dB.

Deviation: ± 5 kHz nominal.

your favorite channel. Automatic final protection against high VSWR is another total performance feature of this outstanding transceiver.

Specifications

GENERAL

Frequency Range: 144 to 146 MHz or 146 to 148 MHz.

Number of Channels: 200 (10 KHz intervals) Simplex and ± 600 KHz TX offset for Repeater operation.

Mode: FM.

Frequency Stability: $\pm 0.001\%$.

Antenna Impedance: 52 Ohm unbalanced.

Power Source: 13.8 V DC (negative ground).

Power Requirement: 0.45A receive, 2.2A transmit.

Size: 220(W)x80(H)x230(D) m/m.

Weight: 3 Kg.

Sensitivity: $0.3 \mu\text{V}$ for 20 dB quieting

Selectivity: ± 8 KHz at 6 dB, ± 16 KHz at 60 dB.

Audio Output: 2 Watts at 4 Ohm

TRANSMITTER

RF Output Power: 1 or 10 Watts.

Spurious Radiation: -60 dB minimum.

Deviation: ± 5 KHz nominal.

Individual lock-out buttons enable you to eliminate any undesired channels. To transmit on a channel being received, a momentary depressing of the mike button locks the transmitter to the receiver. A priority circuit may be activated to check your favorite channel every two seconds. A built-in front panel switchable tone burst generator is included for repeater actuation. Only the YAESU FT-2 Auto offers you such a unique two meter transceiver; complete with cables, mounting bracket, crystals for three popular channels and microphone.

Specifications

GENERAL

Frequency Range: 144 to 146 MHz or 146 to 148 MHz.

Number of Channels: 8 (3 supplied).

Mode: FM.

Frequency Stability: $\pm 0.001\%$.

Antenna Impedance: 52 Ohm unbalanced.

Circuitry: 61 Transistors, 94 Diodes, 7 IC, 3 FET.

Power Source: 100/110/117/200/220/234 VAC 50/60 Hz or 13.5 VDC.

Power Requirement: 30 Watts (AC), 0.5 A receive, 2.1 A transmit (DC).

Size: 210(W)x95(H)x270(D) m/m.

Weight: 4.2 Kg.

FP-2

AC POWER SUPPLY FOR HOME OPERATION

The FP-2 can be used with the FT-224 or Sigmasizer-200R supplying regulated 13.5 V DC. Provision has been made for installation of optional colloid batteries which are automatically charged, and connected when the AC supply stops. The colloid batteries last approximately 10 hours. Contains a 80 x 120 m/m speaker.

Output: 13.5 V DC, 2.2 A maximum.
Power Requirement: 100/110/117/200/220/234 V AC, 50/60 Hz, 35 Watts.

Size: 160(W) x 120(H) x 230(D) m/m.
Weight: 4 Kg.



RECEIVER

Sensitivity: $0.5 \mu\text{V}$ for 20 dB quieting.
Selectivity: 7 KHz at 6dB, 16 KHz at 60dB nominal.

Scanning Rate: 20 channels/second.

Scan Delay: 0.3 second.

Priority Channel Check: Every 2 seconds.

Audio Output: 2 Watts at 4 Ohm

TRANSMITTER

RF Output Power: 1 or 10 Watts.

Spurious Radiation: -60dB better than -60dB.

Deviation: ± 5 KHz nominal.

Accessories

YP-150

R 69.00



● Dummy Load/Power Meter

The Model YP-150 can be used as dummy load and power meter within the frequency range of 1.8MHz to 200MHz. Three switch selected scales assure accurate power measurement in high and low power range. Built-in fan cools unit for stable measurement.

Specifications

Frequency Range: 1.8MHz~200MHz
Impedance: 50 ohm unbalanced
Power Scale: 0~6 watts, 0~30 watts, 0~150 watts
VSWR: Less than 1.2 at 145MHz
Maximum Error: Within 10% of maximum scale
Size: 104(W) x 153(H) x 280(D) m/m
Weight: 2kg.

YC-601

R 162.00



● Digital Display Unit for 101 & 401 Series

The Model YC-601 displays actual transmit and receive frequencies on six bright, green coloured digital display tubes.

All amateur bands are switch selected for complete frequency readout with 100Hz accuracy.

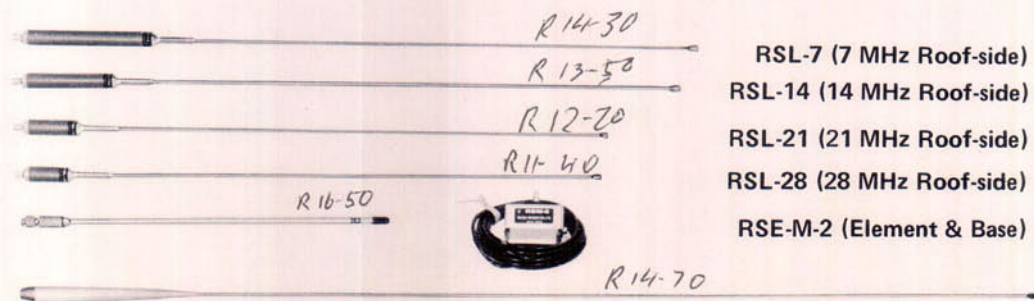
The power supply is built-in.

Connection cable is supplied with the unit.

Specifications

Display: 6 digits, 100Hz Readout
Clock Oscillator: 1.31072MHz
Gate Time: 0.1 sec.
Ambient Temperature: 0°C~40°C
Power Source: 100/110/117/200/220/234V AC 50/60Hz
Power Consumption: Approx. 10VA
Size: 220(W) x 80(H) x 235(D) m/m
Weight: Approx. 2.5kg.

● Mobile Antenna



RSL-7 (7 MHz Roof-side)
 RSL-14 (14 MHz Roof-side)
 RSL-21 (21 MHz Roof-side)
 RSL-28 (28 MHz Roof-side)
 RSE-M-2 (Element & Base)

RSL-145 (145 MHz Roof-side)

VHF Transverter FTV-650B



FTV-250 *R199-00*



● 6 Meter Transverter

Join the VHF action with the FVT-650B and FTV-250. This matching, economical addition offers VHF transmitter and receiver. Why buy a complete separate rig when you

Specifications

GENERAL

Frequency Range: 50~54MHz.
Mode: SSB, AM, CW and FM.
Size: 210(W) x 153(H) x 285(D) m/m.
Weight: 4kg.

RECEIVER

Sensitivity: 0.5 μ V for 10dB Noise plus Signal to Noise Ratio when used with our transceiver.
Input Impedance: 50 to 75 Ohms.
Output Frequency: 28 to 30MHz.
Harmonic & Other Spurious Response: Image Rejection better than 50dB. Internal Spurious Signal below 1 μ V equivalent to antenna input.

TRANSMITTER

Input Power: 50 Watts PEP on SSB, 50 Watts on CW at 50% duty cycle, 10 Watts on AM and FM.
Drive Requirement: 3V RMS at 28 to 30MHz.

● 2 Meter Transverter

can utilize much of your HF transceivers—coupled with these functional accessories?

Specifications

GENERAL

Frequency Range: 144-148MHz.
Mode: SSB, AM, CW and FM.
Size: 210(W) x 153(H) x 285(D) m/m.
Weight: 6kg.

RECEIVER

Sensitivity: 0.5 μ V for 20dB Noise plus Signal to Noise Ratio when used with our transceiver.
Input Impedance: 50 to 75 Ohms.
Output Frequency: 28 to 30MHz.
Harmonic & Other Spurious Response: Image Rejection better than 50dB. Internal Spurious Signal below 1 μ V equivalent to antenna input.

TRANSMITTER

Input Power: 10 Watts PEP on SSB, 10 Watts on CW at 50% duty cycle, 4 Watts on AM and FM.
Drive Requirement: 3V RMS at 28 to 30MHz.



Alignment Lines in Fukushima Factory

YAESU MUSEN CO., LTD.
C.P.O. BOX 1500, TOKYO, JAPAN

YAESU MUSEN U.S.A., INC.
7625 EAST ROSECRANS AVENUE, UNIT #29
PARAMOUNT, CALIFORNIA 90723, U.S.A.

Specifications subject to change without notice.

From:

STAMP
HERE

To:

