

# TRIO

## 2 METER TRANSCEIVER

# TR-2E



1966 DEC-167-2A1		Station		OTHER DATA	
TIME OF CALL	BY	CALLER'S STATION	CALLER'S NAME	MY PHONE NO.	OTHER DATA

## TR-2E SPECIAL FEATURES

### RECEIVER SECTION

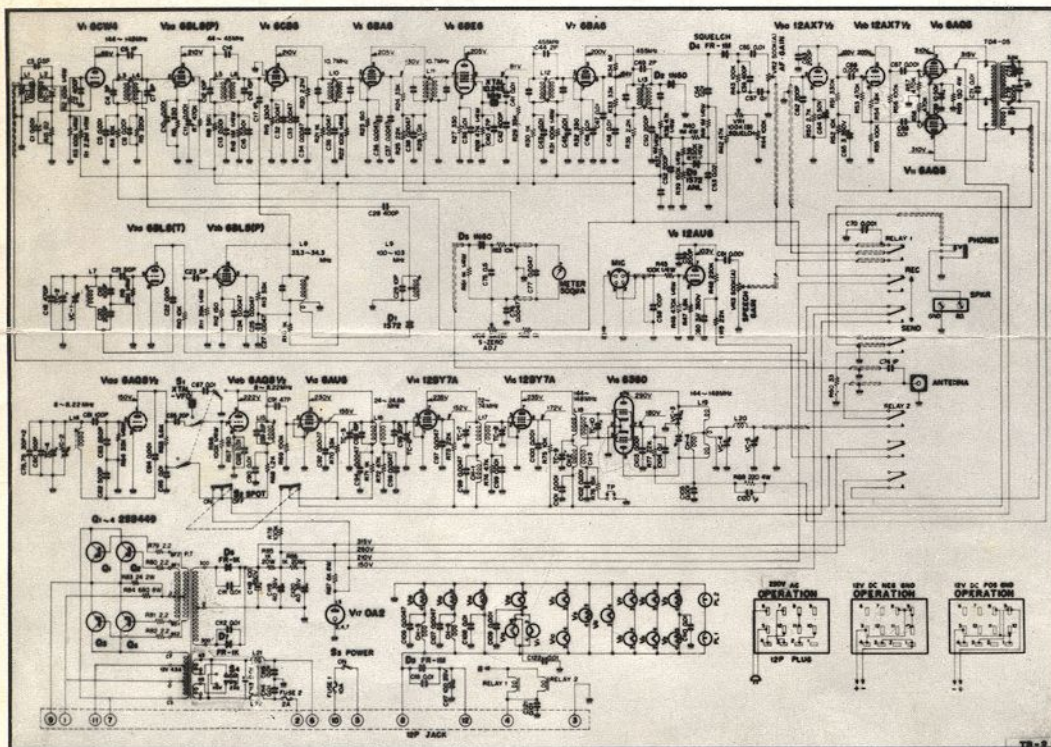
1. Triple Conversion Receiver.
2. 6CW4 Nuvistor Front End for good sensitivity and low noise level.
3. Internal Squelch Circuit to reduce interstation noise.
4. Noise Limiter Circuit to eliminate pulse type interference.

### TRANSMITTER SECTION

1. Built-in VFO enables selection of any channel and assures efficient handling of QSO traffic.
2. Crystal holder circuit is built-in for crystal controlled transmission. Enables drift-free QSOs and fixed channel QSO scheduling.
3. The transmitter is easy to adjust. It requires operation of only two controls both on the front panel which adjust the final stages output and matching circuits. This is made possible by the use of pass-band amplifiers in all the multiplier stages, which greatly simplifies changing frequency channels.
4. Highly efficient Final Stage. It requires only 20 to 24 watts input for full 9-10 watts RF Power output.
5. Simultaneous plate-screen modulation assures clean AM speech.

### TRANSCEIVER

1. Push-to-Talk Microphone Switch accomplishes receiver transmitter switching for speedy message handing.
2. High fidelity dynamic microphone supplied.
3. A pair of 6AQ5 operated as a class A1 amplifier in a push pull circuit provides dual service. It serves, as the Power amplifier for the Receiver, and also as a Modulator for the Transmitter. It provides good amplification with minimum distortion.
4. The S-Meter also provides dual service. It indicates incoming signal intensity during reception, and RF power output during transmission. Moreover, the flicker of the indicator during transmission serves as a modulation checker. The meter handles these functions automatically, and there is no need to bother with switching.
5. The unit incorporates a built-in power supply which enables AC operation from either 117 or 230 volt power sources. The power supply also has an internal DC Converter so that the unit can be operated from a 12V DC battery, enabling the transceiver to be used also for mobile applications.
6. Selection of power sources.....AC: DC (-) Ground: DC (+) Ground.....can be done simply by using the appropriate power cords which are supplied with the unit, and plugging their 12P Plug into the transceiver's Power Jack.



## TR-2E SPECIFICATIONS

### RECEIVER

Frequency Range: 144-148 Mc AM  
 Sensitivity: 1 microvolt for 10dB  
 S/N in 145.5 Mc  
 (0.05 W Audio Output)  
 Image Ratio: 50dB in 145.5 Mc  
 IF Frequency: 1st IF 44-45 Mc  
 2nd IF 10.7 Mc  
 3rd IF 455 Mc  
 Noise Limiting Automatic.  
 Squelch: 1 microV-300 microV.  
 Selectivity: 20 dB down at 10Kc.  
 Audio Output: 3W 8 ohms.  
 Input Impedance: 50 ohms (Unbalanced)

### TRANSMITTER

Frequency Range: 144-148 Mc AM  
 Power Input to Final: 22 to 26 Watts.  
 RF Output Power: 10W 144-146 Mc  
 AC 117V Operation  
 9W 144-146 Mc  
 DC 12.8V Operation  
 Crystal Type: FT-243  
 Crystal Frequency: 8-8.222 Mc.  
 VFO Frequency: 8-8.222 Mc.  
 Microphone Input: High Impedance  
 w/ Push to Talk  
 Frequency Response: -3dB at 300 and  
 -3,000c/s  
 Output Impedance: 50-100 ohms  
 w/ Coaxial Connector

### POWER SUPPLY

AC Operation: 117/230V 60/50 c/s  
 Receive Power Drain  
 106 VA  
 Transmit Power Drain  
 146 VA  
 DC Operation: DC 12.8V (12/14V)  
 Receive Power Drain  
 90 VA  
 Transmit Power Drain  
 120 VA  
 Tubes & Transistors: 16 Tubes;  
 1 Nuvistor; 8 Diodes;  
 4 Power Transistors.  
 Dimensions: Height 6-5/8"  
 Width 11-7/8"  
 Depth 12-3/4"  
 Weight: 22.2 Lbs.

Remarks: Any of the specifications given here may be changed or modified without notice.

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