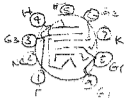


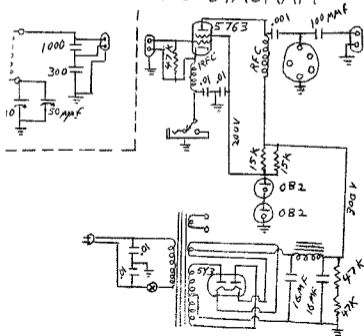
Letteni VFO

VFO OPERATING INSTRUCTIONS

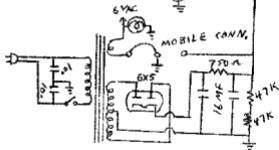
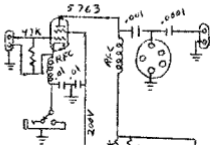
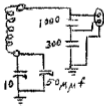
1. To connect to Model 240 transmitter: Plug twin lead plug from VFO output into transmitter crystal socket. Run wires from VFO and transmitter key jacks and connect them together at the key. This allows the transmitter and VFO to be keyed together for break-in.
2. The two VFO units are connected together with the coaxial cable. The cable must be connected correctly. This can be checked by watching for the blue glow in the regulator tubes, when the VFO is turned on, the Tune-Operate switch on Tune and both dials on 100. If no blue glow appears, reverse the cable.
3. For 80 and 40 meter operation, no coil is plugged into the output socket. For 20 and 10 meter operation, a 40 M G L coil is plugged into the output socket. This is the 40 meter oscillator coil from the Model 240 transmitter.
4. For 75 meter Bands the Band Set dial is set about 74. The Band Spread dial tunes from 0 to 85 for 3800 to 4000 kc. For 80 meter CW the Band Set is set about 93. When the Band Spread is on 100 the VFO is tuned to 3500 kc. Tuning the Band Spread from 100 to 0, tunes the VFO from 3500 kc. to 3700 kc. This setting is also used for the 40, 20 and 10 meter bands, using harmonics of the VFO. Exact frequency settings are obtained by zero beating with the receiver.
5. With the Tune-Operate switch on Tune, the VFO can be zero beated without turning the transmitter on. With the switch on Operate, the VFO and transmitter are both operated together with the key or Phone switch.
6. To operate the VFO on 160 meters, a 160 meter VFO coil is plugged into the tuner part of the VFO. This coil costs \$1.65.
7. The mobile connections are used the same as the mobile connections on the Model 240 transmitter. If the 430 volt dynamotor used for the 240 is also used for the VFO, a 4000 ohm 10 watt resistor is required to drop the plate voltage to the proper value for the VFO. The oscillator section of the VFO is placed in the trunk of the car, next to the transmitter. The VFO tuner section is mounted in the front of the car under the dash board, with the cable connecting the two sections. Where the two sections are operated closer together as in fixed station operation, the cable can be coiled up behind the units.



VFO WIRING DIAGRAM



VFO



VFO OPERATING INSTRUCTIONS

1. To connect to Model 240 transmitter: Plug twin lead plug from VFO output into transmitter crystal socket. Run wires from VFO and transmitter key jacks and connect them together at the key. This allows the transmitter and VFO to be keyed together for break-in. Connect the VFO ground braid to the transmitter panel screw nearest to the VFO. For the 242 and 262 transmitters, two leads are connected from contacts on the antenna relay to the VFO key jack.
2. The two VFO units are connected together with coaxial cable. The cable must be connected correctly. This can be checked by watching for the blue glow in the regulator tubes, when the VFO is turned on, the Tune-Operate switch on Tune and both dials on 100. If no blue glow appears, reverse the cable.
3. For 80 and 40 meter operation, no coil is plugged into the output socket. ~~Attaches~~ The 40 meter oscillator coil from the Model 240 transmitter, a 40 MFL coil, is plugged into the output socket for 20 and 10 meter operation.
4. For 75 meter Phone the band set is set about 75. The Band Spread dial tunes from 3800 to 4000 kc. For 80 meter CW, the Band Set dial is set about 93. Tuning the Band Spread dial from 100 to 0, tunes the VFO from 3500 kc. to 3700 kc. This setting is also used for the 40, 20 and 10 meter bands, using harmonics of the VFO. Exact frequency settings are obtained by zero beating with the receiver.
5. With the tune switch on Tune, the VFO can be zero beated without turning the transmitter on. With the switch on Operate, the VFO and transmitter are both operated together with the key or Phone switch.
6. The mobile connections used are the same as the mobile connections on the transmitters. If a 450 volt dynamotor is used for the VFO, a 4000 ohm 10 watt resistor is required to drop the plate voltage to the proper value.

FOR 6 METERS
BAND SET
70 = 50 MC.
20 = 54 MC.

BAND SPREAD
COVERS ONE MC.

FOR 2 METERS
SET BAND SET
ON 40.

BAND SPREAD
COVERS 2 METER
BAND.



CONNECT VFO GROUND
BRAID TO TRANSMITTER
PANEL SCREW.

K4XL's **BAMA**

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