

Item	Condition	Measurement			Adjustment			Specification	Remarks
		Test equipment	Unit	Terminal	Unit	Parts	Method		
	Set the PROC to OFF and the COMP LEVEL control to maximum. Set the AG output to 10 mV. Adjust the MIC GAIN control until the meter indicates the maximum on-scale ALC reading. Set the PROC to ON. STBY REC					L27	Adjust until the same meter reading is obtained (MAX ALC on-scale).	MIC input providing the same ALC meter reading: 10mV ± 3 dB	NOTE: L27 should be adjusted while it is turned counterclockwise.
33. Monitor level adjustment	BAND 14 VFO 175 AGC FAST CAL ON Set the marker level to 0.63V with the AF GAIN control.	Oscilloscope	Rear panel	EXT. SP					
	Connect a power meter to the ANT terminal. SG SW ON STBY SEND Tune up MODE USB Connect the AG (1 kHz, 10 mV) to the MIC jack. METER ALC Deflect ALC meter by MIC GAIN control. MONI ON				IF	VRB	Monitor output 0.63V/8Ω		
	Disconnect AG. AF GAIN MAX. MONI OFF, STBY REC							Less than 8mV/8Ω	Monitor hum

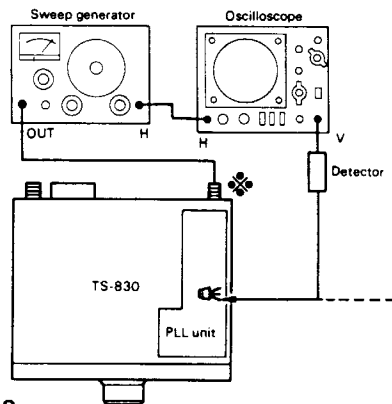


Fig. 9
(10) BPF-A, (11) BPF-B, (12) BPF-C
(13) VFO MIX SPURIOUS

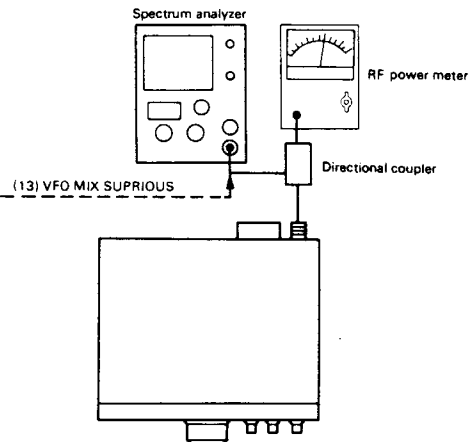
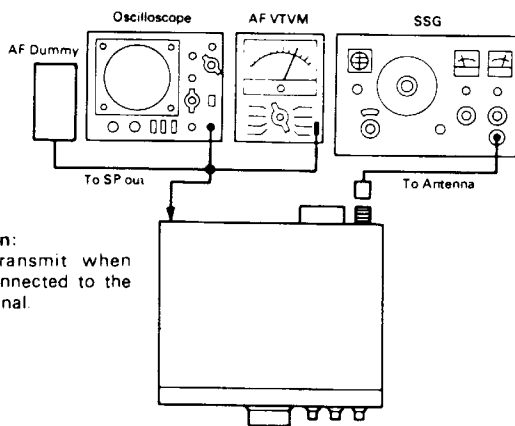


Fig. 10 (27) TX SPURIOUS



☆ **Caution:**
NEVER transmit when SSG is connected to the ANT terminal.

Fig. 12 (15) IF AMP, (16) COIL PACK, (20) IF TRAP,

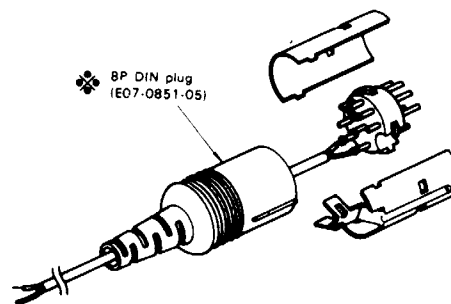
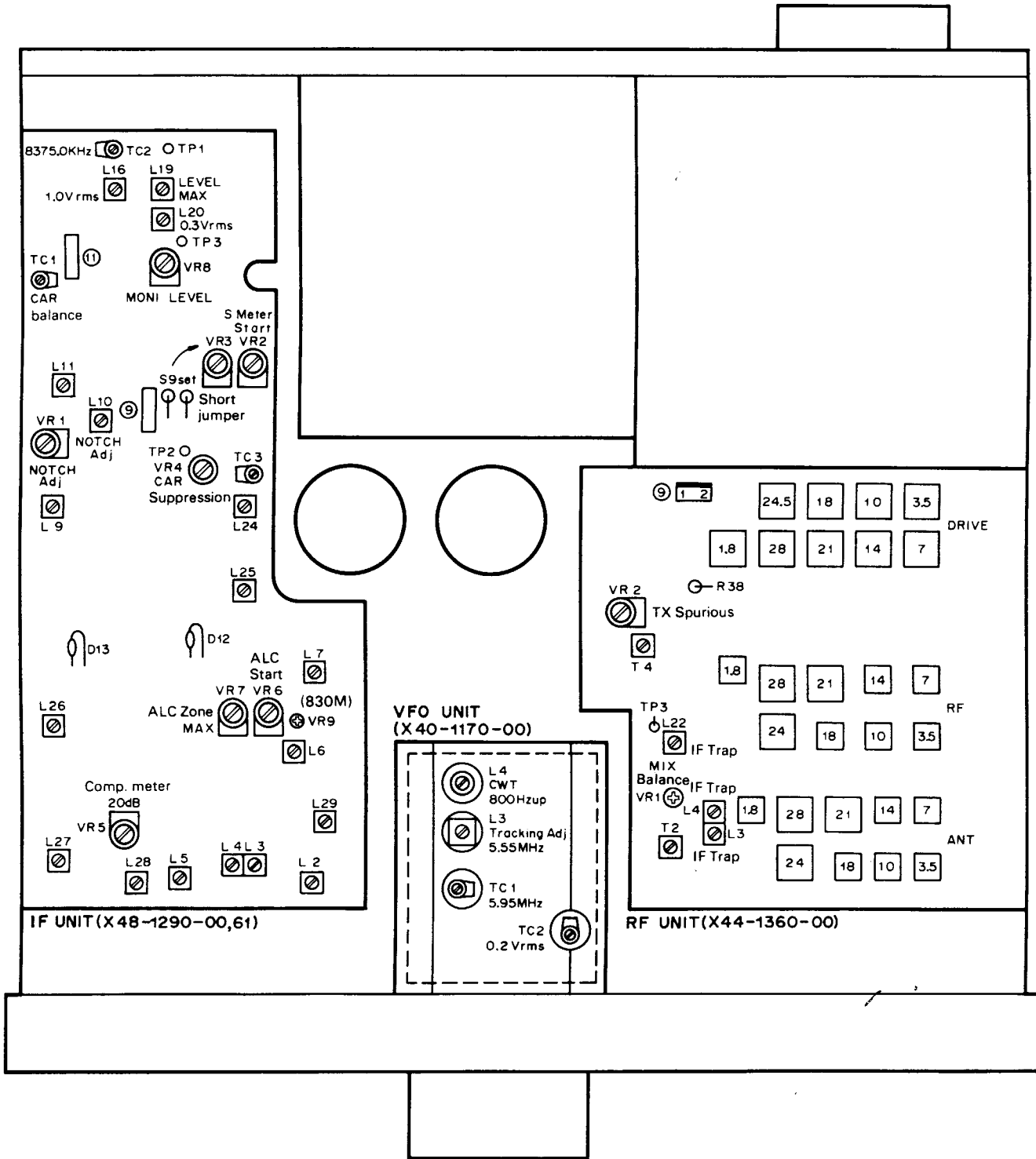


Fig. 11 8P DIN connector

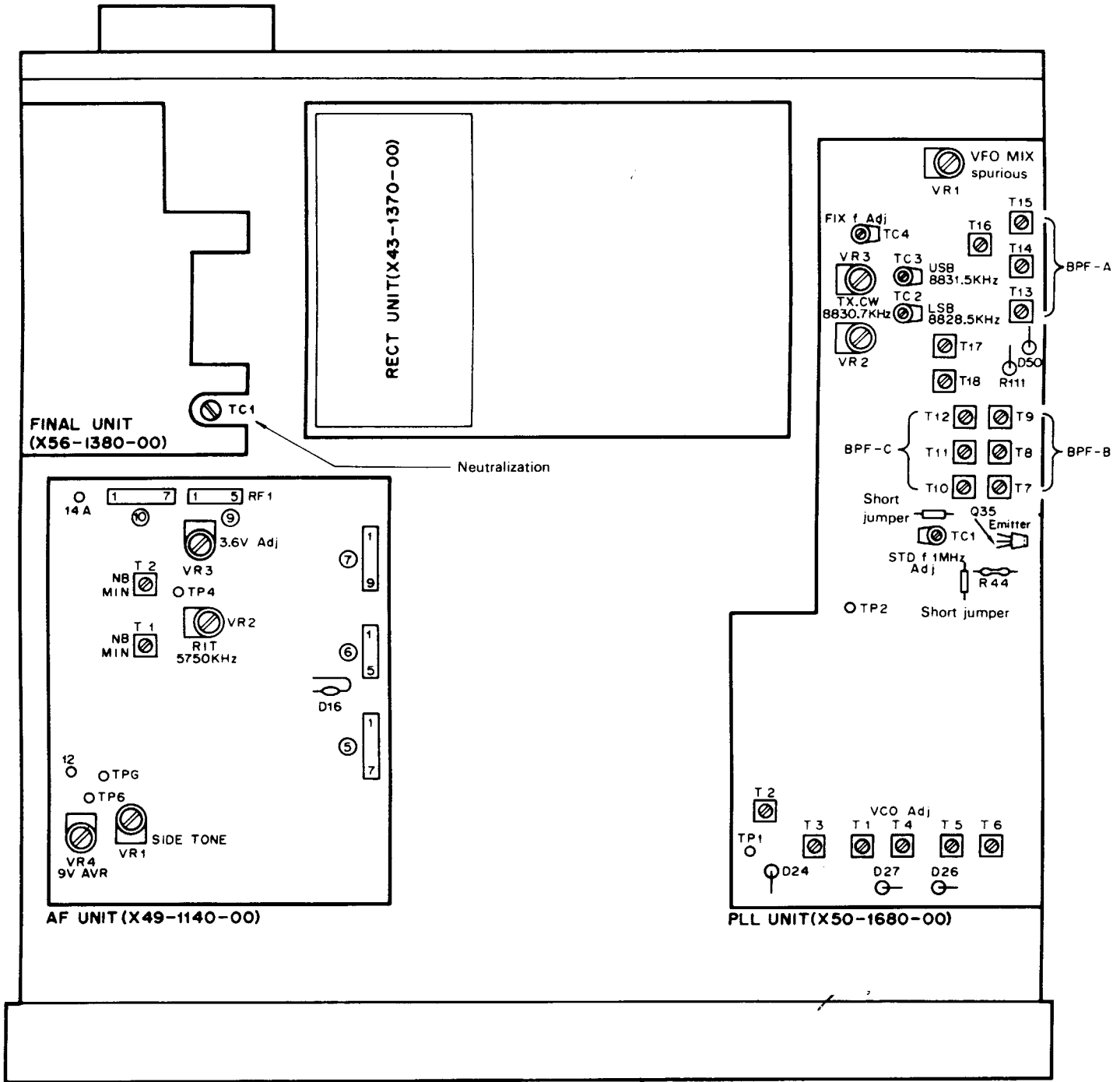
▼ TOP VIEW

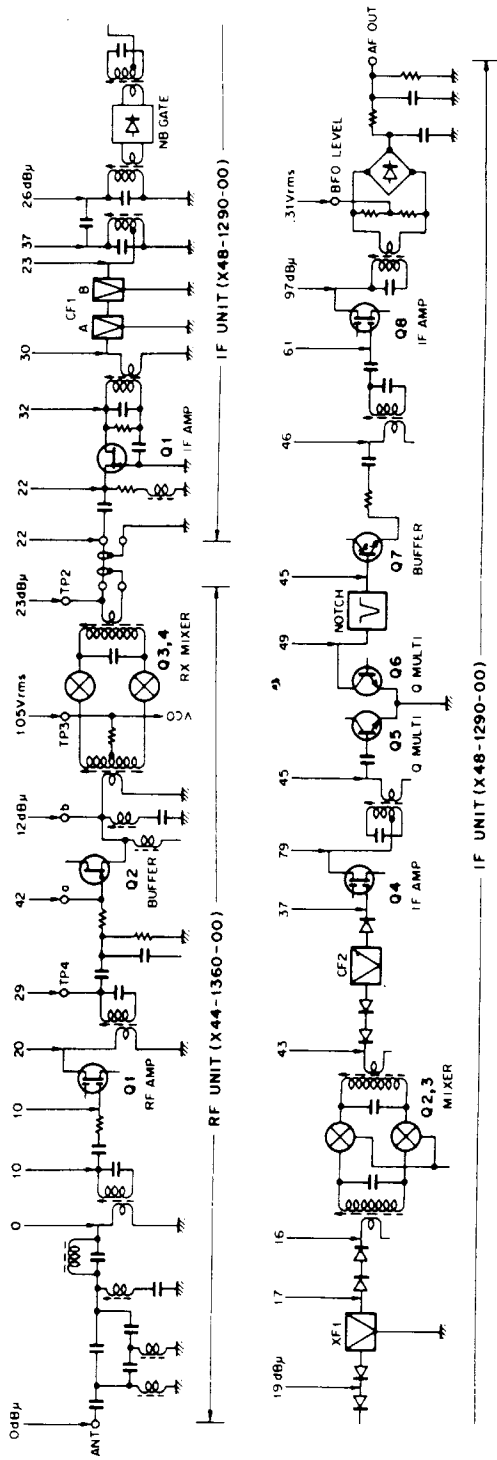


LOCATION OF ADJUSTMENTS

TS-830S, M

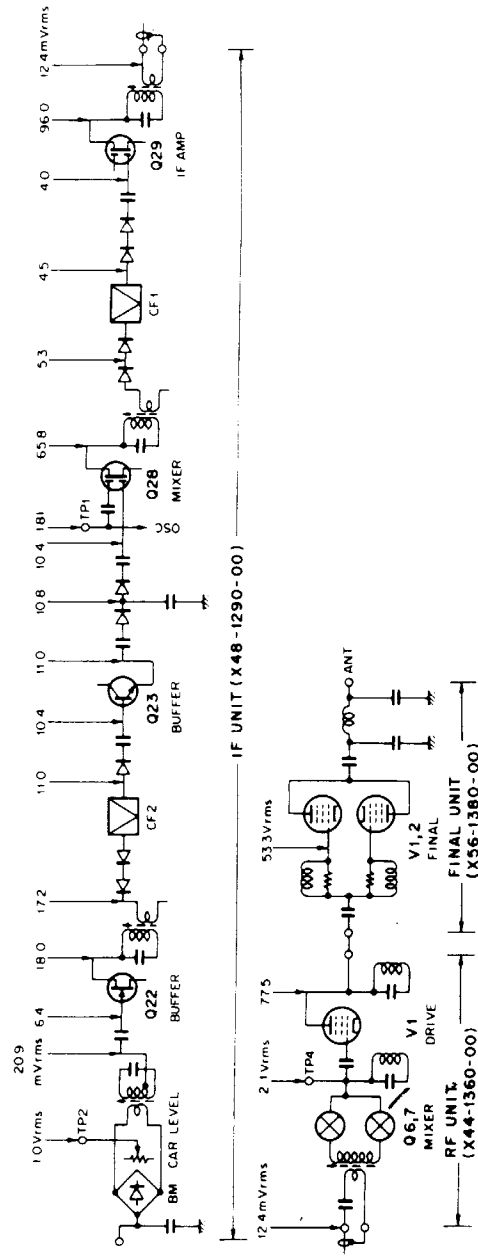
▼ BOTTOM VIEW





NOTES:

1. The figures shown are signal generator output required for a constant audio output with a constant AF gain control setting and AGC SW OFF. Set the AF gain control for 0.63/8Ω (50 mW) audio output 0 dB signal generator input at 14.2 MHz
2. To inject signal generator output connect a 0.01μF 500V capacitor between the signal generator and the check point
3. To check the level at point a, the secondary ANT coil is grounded



NOTES:

1. Levels are measured at 14.2 MHz in the CW MODE and SG SW OFF. Carrier level is adjusted until the meter indicates the maximum on-scale ALC reading
2. All voltage measurements are read from an RF VTVM
3. A probe with a capacitance of less than 3PF should be used, and the ground should be made near the point of measurement