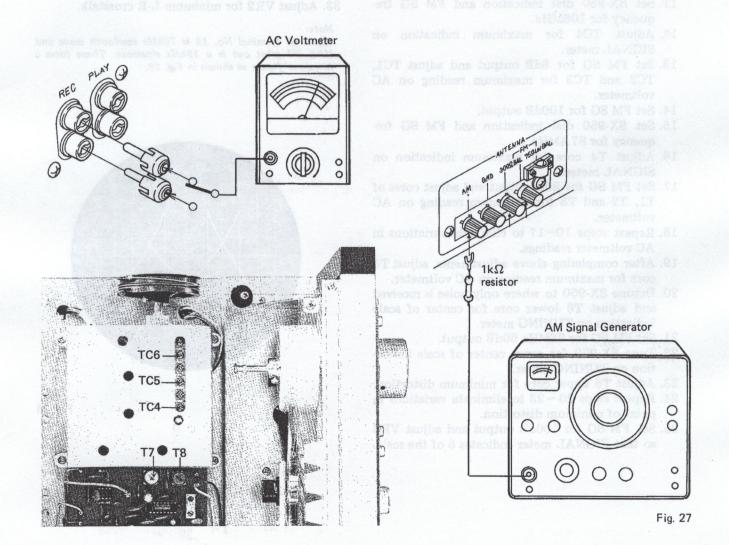
9. ADJUSTMENTS

9.1 AM TUNER

- 1. Set function switch to AM.
- 2. Connect AM signal generator through 1k-ohm resistor to AM antenna terminal.
- 3. Set DUPLICATE switch to OFF and connect an AC voltmeter to TAPE 1 REC jacks.
- Set AM SG for 400Hz 30% modulation 100dB output.
- 5. Set SX-950 dial indication and AM SG frequency for 600kHz.
- Adjust T8 core for maximum reading on AC voltmeter.
- 7. Set SX-950 dial indication and AM SG frequency for 1,400kHz.

- 8. Adjust TC5 for maximum reading on AC voltmeter.
- 9. Set AM SG for 30dB output.
- 10. Set SX-950 dial indication and AM SG frequency for 600kHz.
- 11. Adjust T7, T8 and bar antenna core for maximum reading on AC voltmeter.
- 12. Set SX-950 dial indication and AM SG frequency for 1,400kHz.
- 13. Adjust TC5, TC6 and TC7 for maximum reading on AC voltmeter.
- 14. Repeat steps 10~13 to eliminate variations in AC voltmeter readings.



9.2 FM TUNER

- 1. Set function switch to FM.
- 2. Set FM MUTING switch to OFF.
- 3. Connect FM signal generator through 300-ohm dummy load to 300 ohm FM antenna terminals.
- 4. Set DUPLICATE switch to OFF and connect AC voltmeter to TAPE 1 REC jacks.
- 5. Set FM SG for 100dB output at 400Hz and 100% modulation.
- Set SX-950 dial indication and FM SG frequency for 87.4MHz.
- 7. Adjust T4 core for maximum indication on SIGNAL meter.
- 8. Adjust T6 lower core for center of scale indication on TUNING meter.
- Set FM SG for 8dB output and adjust cores of T1, T2, and T3 for maximum reading on AC voltmeter.
- 10. Set FM SG for 100dB output.
- 11. Set SX-950 dial indication and FM SG frequency for 106MHz.
- 12. Adjust TC4 for maximum indication on SIGNAL meter.
- 13. Set FM SG for 8dB output and adjust TC1, TC2 and TC3 for maximum reading on AC voltmeter.
- 14. Set FM SG for 100dB output.
- 15. Set SX-950 dial indication and FM SG frequency for 87.4MHz.
- 16. Adjust T4 core for maximum indication on SIGNAL meter.
- 17. Set FM SG for 8dB output and adjust cores of T1, T2 and T3 for maximum reading on AC voltmeter.
- 18. Repeat steps 10~17 to eliminate variations in AC voltmeter readings.
- 19. After completing above adjustments, adjust T5 core for maximum reading on AC voltmeter.
- 20. Detune SX-950 to where only noise is received and adjust T6 lower core for center of scale indication on TUNING meter.
- 21. Set FM SG for 98MHz 60dB output.
- 22. Tune SX-950 for exact center of scale indication on TUNING meter.
- 23. Adjust T6 upper core for minimum distortion.
- 24. Repeat steps 20~23 to eliminate variations in point of minimum distortion.
- 25. Set FM SG for 100dB output and adjust VR3 so that SIGNAL meter indicates 5 of the scale.

Multiplex Decoder

- 26. Connect MPX SG (multiplex signal generator) to the external modulator terminals of the FM SG and set the FM SG for external modulation.
- 27. Connect PILOT OUT terminal of MPX SG to horizontal input terminal of oscilloscope.
- 28. Through probe, connect oscilloscope vertical input terminal to terminal No. 19.
- 29. Set FM SG for 98MHz 60dB output unmodulated.
- 30. Tune SX-950 for exact center of scale indication on TUNING meter.
- 31. Adjust VR1 so that 4:1 frequency ratio Lissajous' (see note below) figure becomes stationary.
- 32. Set FM SG for 1kHz (L or R), ±67.5kHz deviation, 19kHz (pilot signal) and ±7.5kHz modulation.
- 33. Adjust VR2 for minimum L-R crosstalk.

Note:

Signal at terminal No. 19 is 76kHz sawtooth wave and MPX SG pilot out is a 19kHz sinewave. These form a Lissajous' figure as shown in Fig. 28.

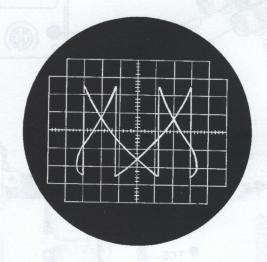
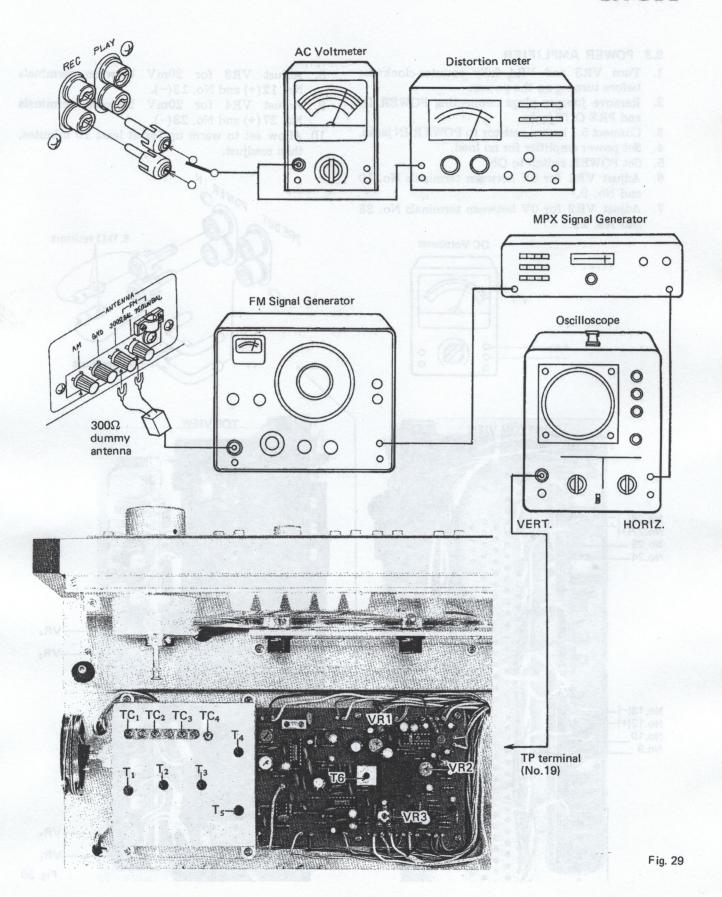


Fig. 28



9.3 POWER AMPLIFIER

- 1. Turn VR3 and VR4 fully counter-clockwise before turning on the power.
- 2. Remove jumper plugs connecting POWER IN and PRE OUT jacks.
- 3. Connect 5.1 k-ohm resistor to POWER IN jacks.
- 4. Set power amplifier for no load.
- 5. Set POWER switch to ON.
- 6. Adjust VR1 for 0V between terminals No. 10
- 8. Adjust VR3 for 20mV between terminals No. 12(+) and No. 13(-).
- 9. Adjust VR4 for 20mV between terminals No. 27(+) and No. 28(-).
- 10. Allow set to warm up for at least 10 minutes, then readjust.

