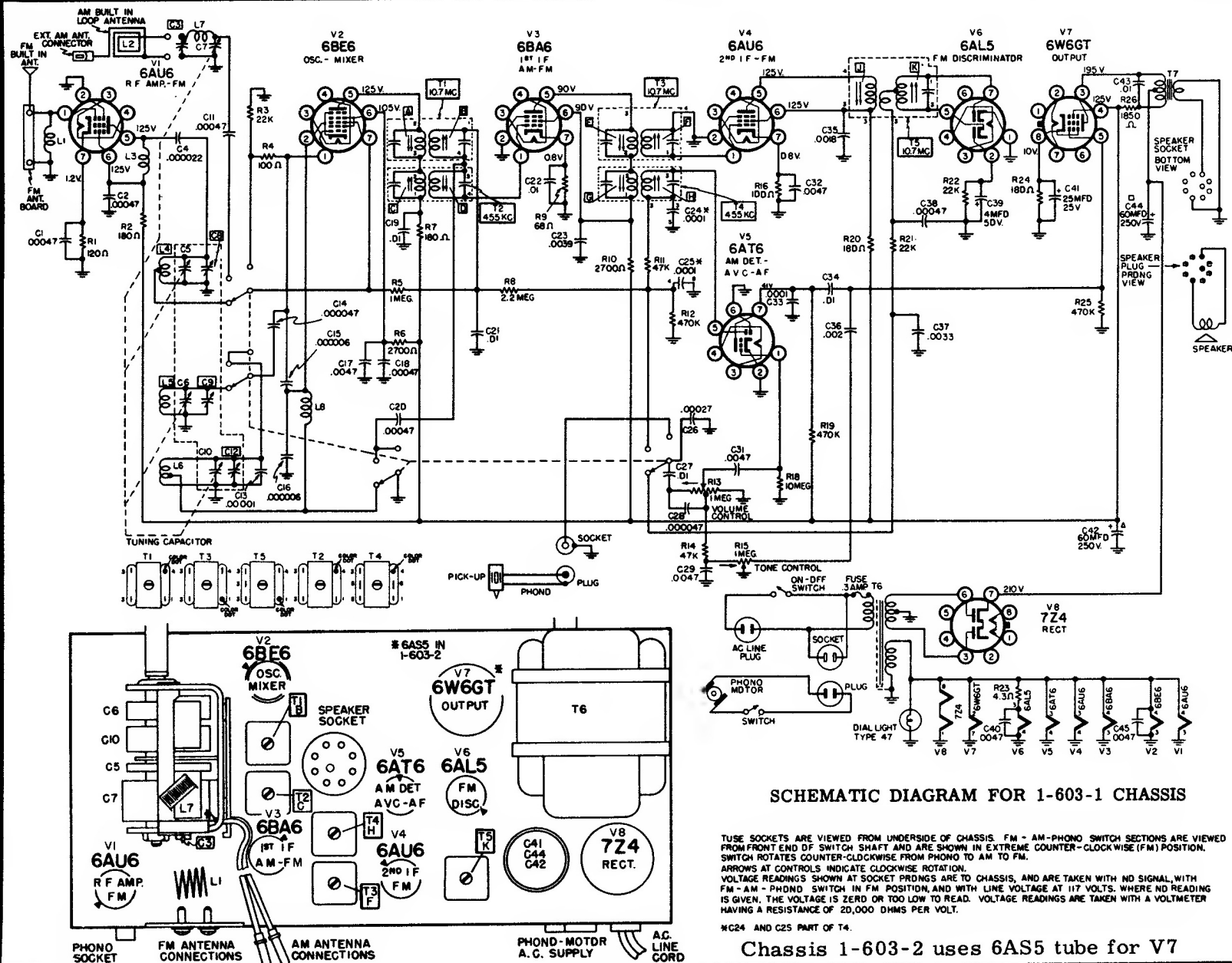


SYLVANIA

CHASSIS 1-603-1 and 1-603-2

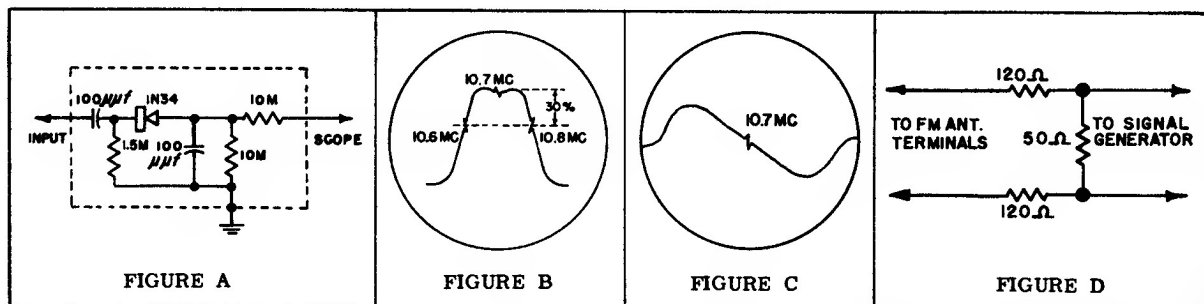


SYLVANIA ELECTRIC PRODUCTS INC.

Chassis 1-603-1 and 1-603-2

FM IF ALIGNMENT

| STEP | SIGNAL GENERATOR Connection | Freq. | SWEEP GENERATOR Connection | Freq. | OSCILLOSCOPE CONNECTION | ADJUST | OUTPUT READING | COMMENTS |
|------|--|-------------------------------|--------------------------------|---------|--|------------------|----------------------------|---|
| 1. | Loosely couple marker to pin 1 of 1st IF Amp. - 6BA6 | 10.6 MC 10.7 MC 10.8 MC | To pin 1 of 1st IF Amp. - 6BA6 | 10.7 MC | Thru detector circuit of Figure A to pin 5 of 2nd IF Amp. - 6AU6 | T3 - F T3 - E | Response curve of Figure B | Connect 500 ohm resistor from pin 5 to pin 6 of 2nd IF Amp. - 6AU6. Obtain maximum vertical amplitude for response curve. Set sweep generator for approximately 500 KC to 1 MC sweep. |
| 2. | Loosely couple marker to pin 7 of Osc. - Mixer - 6BE6. | 10.6 MC 10.7 MC 10.8 MC | To pin 7 of Osc. Mixer - 6BE6. | 10.7 MC | Same as 1. | T1 - B T1 - A | Response curve of Figure B | Same as 1; reduce sweep generator output to avoid AVC distortion of response curve. |
| 3. | Loosely couple marker to pin 1 of 2nd IF Amp. - 6AU6. | 10.6 MC 10.7 MC 10.8 MC | To pin 1 of 2nd IF Amp. - 6AU6 | 10.7 MC | Across de-emphasis capacitor, C37 .0033 Mfd. | T5 - K T5 - J | Response curve of Figure C | REMOVE 500 OHM RESISTOR ADDED FOR STEP 1. Center 10.7 MC marker. Obtain maximum linear output for response curve. |



FM RF ALIGNMENT

| STEP | SIGNAL GENERATOR Connection | Freq. | TUNING CAPACITOR POSITION | OUTPUT METER CONNECTION | ADJUST | OUTPUT READING | COMMENTS |
|------|---|----------|------------------------------|----------------------------|------------|-------------------|---|
| 1. | Thru resistor network of Figure D to FM antenna terminal board. | 108.5 MC | Fully open | Across speaker voice coil. | C9 | Maximum | Set Volume control to full CW position and set Tone control to full CCW position. Use a 400 cycle modulated signal. Keep generator output at lowest usable value. Leave AM loop antenna leads connected during FM RF alignment. |
| 2. | Same as 1. | 108 MC | 108 MC | Same as 1. | C8 | Maximum | Same as 1 using printed calibration dial on chassis assembly to properly position tuning capacitor. |
| 3. | Same as 1. | 87.5 MC | Fully closed | Same as 1. | L5 coil | Maximum | Same as 1 "spiking" (squeezing or spreading turns of coil) L5 for maximum output reading. Use a non-metallic pick for this adjustment. |
| 4. | Same as 1 | 88 MC | 88 MC | Same as 1. | L4 coil | Maximum | Same as 2 "spiking" (squeezing or spreading turns of coil) L4 for maximum output reading. Use a non-metallic pick for this adjustment. |

AM ALIGNMENT

| STEP | SIGNAL GENERATOR Connection | Freq. | TUNING CAPACITOR POSITION | OUTPUT METER CONNECTION | ADJUST | OUTPUT READING | COMMENTS |
|------|--|---------|------------------------------|----------------------------|--------------------------------------|-------------------|---|
| 1. | Thru .1 Mfd. capacitor to pin 7 of Osc. - Mixer - 6BE6. | 455 KC | Fully open | Across speaker voice coil. | T4 - H T4 - G T2 - D T2 - C | Maximum | Set Volume control to full CW position and set Tone control to full CCW position. Use a 400 cycle modulated signal. Keep generator output at lowest usable value. |
| 2. | Radiated to receiver thru a wire loop of several turns. or: Thru a 50 Mmfd. capacitor to AM antenna board. | 1650 KC | 1650 KC | Same as 1. | C12 | Maximum | Same as 1 using printed calibration dial on chassis assembly to properly position tuning capacitor. |
| 3. | Same as 2. | 1400 KC | 1400 KC | Same as 1. | C3 | Maximum | Same as 2. |