

January 23, 1961

S/400, S/600 CHASSIS MODIFICATION

SYMPTOM

1. Hum

Remedy

- (a) A.C. switch lead fed through hole in chassis up to switch box.
- (b) Ground centre pin of V7 and V11.
- (c) Re-route blue lead to balance meter through chassis hole in the A.M. detector strip.
- (d) Dress green leads from balance control taps to V7 and V11 as close as possible to front apron and away from leads fed through chassis hole.

SYMPTOM

2. F.M. Break-through on A.M. reception.

Remedy

- (a) Add .01mfd capacitor to B<sub>f</sub> line between 2nd. 455kc I.F. and 6BA6 tube ground.

SYMPTOM

3. Balance cannot be obtained on low volume.

Remedy

- (a) Short 470K resistor from balance controls to ground.
- (b) Replace volume control with smoother type. (new control).

SYMPTOM

4. Weak A.M. and/or F.M.

Remedy

- (a) Replace all Haltron tubes in A.M. and F.M. tuner sections.
- (b) (S/400 only). Replace 470 ohm 2W resistor on the electrolytic to 150 ohm 2W.

SYMPTOM

5. F.M. Tuner drift.

Remedy

- (a) Switch set on and push F.M. button to "ON", unit should be left on for a minimum of 48 hours. After this heat run, the dial pointer should be adjusted to agree with a station somewhere in mid-band.

SYMPTOM

6. A.M. Tuner drift.

Remedy

(a) Replace 5pF N470 capacitor on oscillator coil with 5pF N1500 capacitor.

SYMPTOM

7. A.M. Motor-boating.

Remedy

(a) Replace all ground connections of power output stage next to pre-amp output socket to a point between the two output tubes. (This is S/600 only).

SYMPTOM

8. A.M. Instability.

Remedy

(a) Increase screen res. of 6BA6 to 22K.

SYMPTOM

9. Sticky balance meter.

Remedy

(a) Replace balance meter and install heat shield behind balance meter.

SYMPTOM

10. Loose balance meter.

Remedy

(a) Install lock washer under balance meter bolt heads.

SYMPTOM

11. Pilot light shorts.

Remedy

(a) Tape inside of pilot light ports, tape to over-lap  $\frac{1}{4}$ " approximately.

SYMPTOM

12. A.M. and Phono cannot be operated simultaneously.

Remedy

(a) Re-wire according to circuit diagram.

*G. M. Hogart B.*