

Philips Valve Substitution Bulletin

SET.—Courier

TYPE.—R.U. (B/cast.)

Rolls

R.T. (D/W.)

Skyscraper

Ultimate

Etc.

Replacements:

1. Converter tube 7A8—replace with ECH21.

Wiring changes necessary to socket:—

- Pin 1—O.K.
- 2—O.K.
- 3—O.K.
- 4—join to 7.
- 5—O.K.
- 6—O.K.
- 7—transfer to 8.
- 8—O.K.
- Spigot—O.K.

2. I.F. tube 7A7—replace with EF22.

3. Detector, A.V.C. and A.F. tube 7C6—replace with EF22. This valve replaces A.F. section only.

Wiring changes necessary to socket:—

- Pin 1—O.K.
- 2—O.K.
- 3—transfer to 6. Connect pin 3 to pin 2.
- 4—O.K.
- 5—transfer to 5 of output valve socket.
- 6—transfer to 6 of output valve socket.
- 7—O.K.
- 8—O.K.

4. Power Output tube 7C5—replace with EBL21. This valve replaces detector, A.V.C. and output section. Wiring changes necessary to socket:—

- Pin 1—O.K.
- 2—O.K.
- 3—transfer to 4.
- 4—O.K.
- 5—O.K.
- 6—transfer to 3.
- 7—O.K.
- 8—O.K.

Connect one end of approximately 330 ohms to junction of choke and 100K resistor at the back of the chassis, and the other end to earth, in order to reduce the bias on the EBL21.

Performance

Slight realignment of oscillator and R.F. trimmers, together with I.F.'s is required.

Sensitivity is improved.

Selectivity, tone and A.V.C. are substantially unaffected.

Note:

If the 7C6 or 7C5 is to be replaced singly and not as a combination, the following changes are necessary:—

3. Detector A.V.C. and A.F. tube 7C6—replace with EBL21.

Wiring changes necessary to socket:—

- Pin 1—O.K.
- 2—O.K.
- 3—O.K.
- 4—O.K.
- 5—O.K.
- 6—O.K.
- 7—remove and connect 100 ohms between 7 and earth.
- 8—O.K.

4. Power Output tube 7C5—replace with EBL21.

Wiring changes necessary to socket:—

- Pin 1—O.K.
- 2—O.K.
- 3—transfer to 4.
- 4—O.K.
- 5—connect to earth.
- 6—transfer to 3. Connect pin 6 to earth.
- 7—O.K.
- 8—O.K.

Connect one end of approximately 330 ohms to the junction of choke and 100K resistor at the back of the chassis, and the other end to earth, in order to reduce the bias on the EBL21.