21CBP4A (RCA, Sylvania) 21FLP4 (G-E, West'hse.)

These 21" tubes—by far the most popular types in their respective lines—can replace many other electrostatically - focused 90° CRT's. Major specifications include: aluminized screen; straight electron gun; over-all length 18"; neck length 5½" (2" shorter than most types they replace); inner and outer aquadag coating used as high-voltage filter capacitor.

Can replace following types: 21ALP4,-A,-B Discard ion trap.

21ANP4,-A Discard ion trap; add aquadag-grounding spring.

21ATP4,-A,-B Discard ion trap.

21BAP4 Direct replacement.

21BNP4 Direct replacement.

21BTP4 Discard ion trap.

21CMP4 Discard ion trap.

21CVP4 Recommended by all except Sylvania. Direct replacement.

21CWP4 Recommended by all except Sylvania. Direct replacement.

21DNP4 Recommended by RCA and G-E only. Discard ion trap.

21ACP4A (G-E) 21AMP4A (RCA)

Electromagnetically-focused, these near-equivalent 90° tubes have a nominal over-all length of 20", neck length of 7½", aluminized screen, and an external aquadag coating. The RCA type (but not the G-E) requires a single ion trap.

Can replace following types:

21AQP4,-A Add aquadag-grounding spring.

21BSP4 Direct replacement.21CUP4 Direct replacement.

24AEP4 (G-E, RCA, Sylvania)

This "short-neck" 90° tube has the same specifications as the 21CBP4A and 21FLP4, except for the 24" screen size and 191/8" overall length.

Can replace following types: 24ANP4 Discard ion trap. 24DP4,-A Discard ion trap. 24YP4 Discard ion trap. 24ZP4 Discard ion trap.

24CP4A (G-E,

A 24" counterpart of the magnetically-focused 21ACP4A and 21AMP4A, this tube measures 211/8" in over-all length. Discard the ion trap when a G-E replacement is installed, but not if the new tube is an RCA.

Can replace following types: **24ADP4** Direct replacement.

24CP4 Direct replacement.
24QP4 Direct replacement.
24TP4 Direct replacement.
24VP4,-A Direct replacement.
24XP4 Add aquadag-grounding spring.

27RP4 (G-E,

The largest member of the magnetically-focused 90° group, this 27" tube is basically the same as the 24CP4A except for size. Over-all length is 23". The RCA version requires a single ion trap, but the G-E does not.

Can replace following types: 27EP4 Add aquadag-grounding spring. 27GP4 Direct replacement. 27NP4 Direct replacement.

17BJP4 (G-E,

Here's a 90° tube for portables and small table models. Like its larger brothers in the electrostatically-focused series, it has a short (5½") neck and needs no ion trap. Total length is 145%", averaging an inch shorter than the other types it replaces.

Can replace following types: 17ATP4,-A Discard ion trap. 17AVP4,-A Discard ion trap. 17BUP4 Discard ion trap. 17CBP4 Discard ion trap. 17CLP4 Discard ion trap.

17DKP4 (RCA, Sylvania)

This 110° tube is designed for late-model slim-line portables, being only 10-11/16" long with a 3-9/16" neck.

Can replace following types: 17DTP4 Direct replacement.

17DLP4 Recommended by Sylvania only. If trouble is encountered with substitution, change grid no. 1 connection from pin 6 to pin 2 of socket.

17BWP4 (G-E)

17CSP4 (RCA)

Of somewhat older design than the 17DKP4, these two 110° tubes have a greater length (12 5/16") and require a deeper cabinet.

Can replace following type: 17BVP4 Direct replacement.

14CP4A (G-E)

14EP4 (RCA)

Quite a few "universal" replacement CRT's are being made available to keep older-model TV sets operating—for example, these aluminized 14" tubes with 70° deflection and magnetic focus. Measuring 1634" in length, these types have a 7½" neck.

In this and all following categories, the RCA replacement tube needs a single-magnet ion trap, whereas the G-E tube has been modified from the original specifications so that the ion trap is no longer needed.

Can replace following types: 14CP4 Direct replacement. 14BP4,-A Direct replacement.

14DP4 Change from double to single ion trap, if replacing with 14EP4.

Add aquadag-grounding spring.

16KP4A (G-E) 16RP4A (RCA)

A "step-up" in size from the 14" tubes just discussed, these 16" rectangular types are 1834" long and have a 2-kv higher anode-voltage rating. Other specifications are similar to those of the 14CP4A and 14EP4.

Can replace following types:

16QP4 Replace double ion-trap magnet with single type, if replacing with 16RP4A.

16UP4 Check physical clearances; original tube has 5%" shorter neck than replacement.

16XP4A Direct replacement.

16TP4 Recommended by G-E only. Check physical clearances, as indicated for 16UP4.

20CP4D (G-E) 20DP4C (RCA)

Moving up one more notch to the 20" rectangular size, we find these two slightly different 70° types capable of replacing each other. Several older versions of these same types, bearing different letter suffixes, can also be replaced; however, careful attention should be paid to the following notes to insure a correct substitution.

Can replace following types:

20CP4, -B, -C Add aquadag - grounding spring.

20CP4A Direct replacement. Original not aluminized.

20DP4,-B Add aquadag-grounding spring.
20DP4A Direct replacement. Original not aluminized.

20HP4D (G-E, RCA)

This tube is the same size as those just mentioned, and has the same electrical specifications except that it is electrostatically focused.

Can replace following types:

20HP4, -B, -C Add aquadag - grounding

20HP4A Direct replacement, Original not aluminized.

20LP4 Direct replacement. 20MP4 Direct replacement.