

REV:

0 A 0

COMPILED: E. Ruzza

CHECKED: E. Ruzza

APPD: *ER*

SHEET OF

TITLE: KIT-380B

KIT-380B

TUBE REPLACEMENT
(RCA 8794 replaced by Eimac 4CX10,000J)

- Part 1 Socket Replacement
- Part 2 Filament Mod
- Part 3 Screen Voltage Mod

REV:

0 A B

COMPILED:

CHECKED:

APPD:

SHEET 1 OF 4

TITLE: KIT 380B

I. EQUIPMENT EFFECTED:

TMC Transmitter Model HFLA-10K

II. PURPOSE:

Installation of new Tube

III. MATERIAL REQUIRED:

Table 1 list material supplied with this KIT

Quantity	Part Number	Description
1	AX743-1	Socket, Tube
2	CU129-19SS	Clamp, Hose
16	LWE06MRN	Lockwasher, External
1	MS6343	Bracket, Support
1	PX1176	Chimney, Top
16	SCBP0632BN7	Screw, Machine
1	PX1178	Chimney, Air
1	TZ229	Transformer, RF c/w Spacers
1	4CX10,000 J	Tube
3	FU102-7	Fuse, slo-blo
2	TE102-2	Standoff, Ins

REV:

0 A B

COMPILED: E. Ruzza

CHECKED: E. Ruzza

APPD:

SHEET 2 OF 4

TITLE: KIT 380B

PART 1SOCKET REPLACEMENT

IV. PROCEDURE

- (1) Remove all connections from final Tube Socket, which are disconnections of the Screen, Grid, Filament and Leads going to the Sensing Box. Make sure that you remember how they are connected.
- (2) After everything is disconnected remove the Tube, Sensing Box, Chimneys and the Socket.
- (3) Now mount the Tube Support Bracket (MS6343) on top of the blower box and screw down to the box.
- (4) Install new Tube Socket (AX743-1) together with Tube Support Bracket (MS6343) making sure that the Screen and Grid connections are properly aligned with Screen and Grid leads. (DO NOT SCREW DOWN SOCKET AT THIS TIME.)
- (5) **Install new Air Chimney (PX1178) with Tube Socket. (Bottom) Line up the holes and secure.**
- (6) Connect Filaments, Grid and Screen leads to Socket.
- (7) Install new Sensing Box (TZ229). Connect leads. NOTE! Two outer leads on toroid might have to be reversed to obtain correct phasing.
- (8) Install new Tube into Socket.
- (9) Modify Plate Strap so that it fits around Tube. After modifying, connect with new Clamp (CU129-19SS) supplied.
- (10) On the installation of the chimneys, it is necessary to use one existing section of the old chimney. The old chimney has two sections - inner and outer. The outer section is needed. Discard inner chimney. Attach new chimney (PX1176) with old outer section (slide over). Mount the chimneys in existing mounting holes. After mounting, slide outer section down over the Tube. Connect clamp (CU129-19SS) around the chimney to hold it in place.

REV:

Ø A B

COMPILED: E. Ruzza

CHECKED: E. Ruzza

APPD:

SHEET 3 OF 4

TITLE: KIT 380B

PART 2

Modification to provide 7.5 V.
Filament for 4CX10,000 J

1. Remove White/Black jumper lead from rear of XF3005 to rear of XF3004.
2. Remove 3 white wires from XF3004, locate white wire going to T804 Pin 1 and reconnect it back on XF3004. Now locate second white wire going to M801 Pin 1. Extend this wire and connect to Junction TP1. Connect remaining white wire to XF3005 (Term. close to panel)
3. Add jumper (white) from XF3004 (front) to Junction TP2.
4. Disconnect both ends of Fil. time elapse meter M3001, Tape 2 wires back in cable so they are insulated from each other and not grounded. Connect one side of Fil. meter M3001 to TP1 Junction.
5. Locate gray and white wire going from T804 (Fil. Xfmr) to T803. Put this wire on 250 V tap (same phase). Also run in new #18 gray and white wire from same point (250V tap Ø2) to M3001 Fil. time elapse meter.
6. Also run new wire from T803 Ø 250 V tap to tip of XF3004 (#18 wire)
7. Insert 1400 ohms10W resistor between Junctions of TP1 and TP2 (see schematic).
8. Locate lead (gray and white) that is going to M801-2, remove end at rear of XF3006. Extend this lead and connect with wire nut to black lead of M3001 and new gray and white lead that was added from T803.
9. Change F3005,6,7 fuses to 7 Amp Slo Blo. After all mods are completed Fil. Voltage on PA tube 4CX10,000J should be set up to 7.3 to 7.5 volts AC measured at tube socket. This voltage is set up by changing prim. taps on T804. (Remove PA Fil. Fuse check to see if Fil. Time Meter and M801 Timer are deenergized)

S 1298

REV:

Ø A B

COMPILED: E. Ruzza

CHECKED: E. Ruzza

APPD:

SHEET 4 OF 4

TITLE: KIT-380B

PART 3

P.A. SCREEN VOLTAGE MOD.

On Zener board (A-4817) remove two leads going to junction of R829, CR801A (1600-U) and separate. Locate lead going to the P.A. Screen (E-701). Connect this lead to junction of R828 and CR8014. Replace remaining lead on original connection.

