



- Name This Amplifier:
- [] {make suggestion}
 - [] A.M. Time
 - [] Central Scrutinizer
 - [] Chief Smoke
 - [] Coffee Time
 - [] Dynah Mo'
 - [] Felix
 - [] Gershwin
 - [] Gothic Delight
 - [] Guido
 - [] HF Plus Six
 - [] Hieronymus
 - [] ILL-GOTTEN GAIN
 - [] Mama Kitty
 - [] Master Cylinder
 - [] Mule Skinner
 - [] Naughty Dream
 - [] One Sixty Six
 - [] Opcom's Revenge
 - [] Sergeant Slaughter
 - [] ShagNaplifier
 - [] Smoking Lamp
 - [] Super Chief
 - [] Tomcat

BLOWER CIRCUIT: R-ADJ at blower adjusts the voltage at which the "potential relay" pulls in to remove the Start capacitor. Wirewound, several watts. C10, 20, 21 per waterfront-woods.com and AMFONE BBS

Plate Voltage Selection:
 -11% tap = 4814V @100mA, 4460V @300mA, 4300VDC @2A
 (^^^ use this tap ^^)
 std. tap = 5410V @108mA, 5015V @334mA, 4878VDC @2A
 +11% tap = 5953V @119mA, 5518V @345mA, 5374VDC @2A
 "variac" in primary allows adjustment from half to full voltage.

- * RF CHOKES L906, 907, 911, 914 2.5A min. rating.
- * HV GLITCH fuse = 5" #30 on 3" standoffs. --> "HV FUSE" component.
- * R17 = BLEEDER Five 10K 100W WW on 3" standoff.
- * (not shown: D13-D44 PROTECTION DAMPER for power supply components. Eack 1KV 1A 30A surge.)
- * HASH CHOKES in MV rectifier anodea reduce RF noise on receive. Amp kinda big for keying the HV.

NOT SHOWN (see V007)
 PROTECTION - D7 - - - D12 protects against arc between HV and tube cathode or grid. Clamps the negative side of the filter capacitor to -6V.

The TR switch:
 - uses two 600VAC / 30-50A 3-pole contactors. A shield can be made around the contact section where necessary and RF bypasses should be used at the contactor coils.
 * One when energized connects the Receiver to the antenna and GNDs the TX output
 * The other when energized connects the Exciter to the TX input and the TX output to the antenna.
 * When 120V power is present and the control relay is not energized, the system is in RX mode. A 12V signal energizes the control relay coil to place the system in TX mode.
 * When the 120V power is not present, all ports are isolated.

3CX3000A7 Cgp = 24pF
 Original pi tank from 4CX5000 @ 7500VDC 10KW HF amp.
 "GPT-10K S900 PA Bandswitch" (15.23 turns total)
 Switch common terminal segment shorts up to 3 sections at once as rotates. coil segments below as n.nT (turns) and - TOTAL inductance from LF end to HF end.

2-3 MC position 1, section 1, 3.25T - 13.75 uH 2-3MHz band value
 3-4 MC position 2, section 2, 3.08T - 9.75 uH
 4-6 MC position 3, section 3, 2.08T - 5.85 uH
 6-8 MC position 4, section 4, 2.08T - 3.75 uH
 8-11 MC position 5, section 5, 1.08T - 2.25 uH
 11-15 MC position 6, section 6, 1.08T - 1.5 uH
 15-19 MC position 7, section 7, 1.08T - 0.95 uH
 19-24 MC position 8, section 8, 1T - 0.6 uH
 24-28 MC position 9, section 9, 0.5T - 0.255 uH 24-28MHz band value (the half turn)

2-30MHz 3CX3000F7 Amplifier [] V0.009 2015-11-24 (draft)
 magnetosphere.net [] bunkerofdoom.com
 Guarantee: If not 100% satisfied, purchase price will be cheerfully refunded upon presentation of original invoice.
 toys in the attic