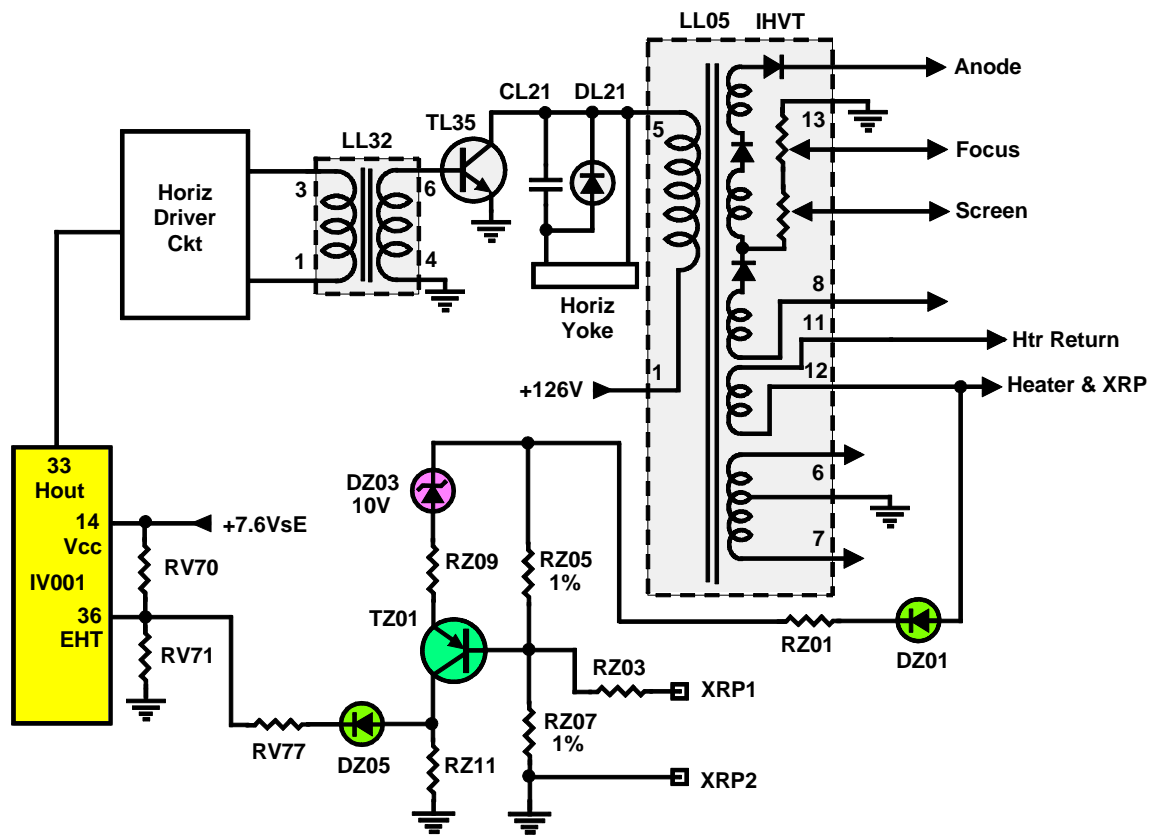## Shutdown

The ITC008 is a basic chassis with a few protection fuses and a shutdown circuit.

Shutdown consists of an XRP circuit that monitors the heater pulse from pin 12 of LL05. A detector circuit consisting of DZ01, DZ03, DZ05, and 1% resistors (RZ05 and RZ07) determine the trip point of TZ01. If the heater pulse is too high, TZ01 turns on increasing the voltage at pin 36 of IV001 (>3.9Vdc). IV001 in turn shuts down horizontal drive turning off the set.

Aside from the above listed shutdown the ITC008 also uses circuit protectors (fuses) in the power circuits. The below chart shows the location and power supply associated with the device.

Device (Open)	Reg B+	High Voltage	Video	Audio	Comments
FP01 (AC Fuse) Main CBA	0Vdc	NO	NO	NO	DEAD
FZP60 (+21.5V) Main CBA	132Vdc	YES	YES	NO	Set comes on with No Audio
FZP61 (+13.1V) Main CBA	0Vdc	NO	NO	NO	DP27 Shorts (Over Voltage protect)
FZP66 (+7.9V) Main CBA	132Vdc	NO	NO	NO	Cycles when Power is pushed
FZP93 (+6.3V) Main CBA	125Vdc	NO	NO	NO	Dead, Power supply working
FZK001 (+13.1V) Alert Guard	132Vdc	NO	NO	NO	Dead, Disconnect Alert Guard module and set powers on with video and audio.
FZX001 (+12V) MAV	128Vdc	YES	NO	Yes	OSD present on channel change

Circuit Protection Chart

XRP Block