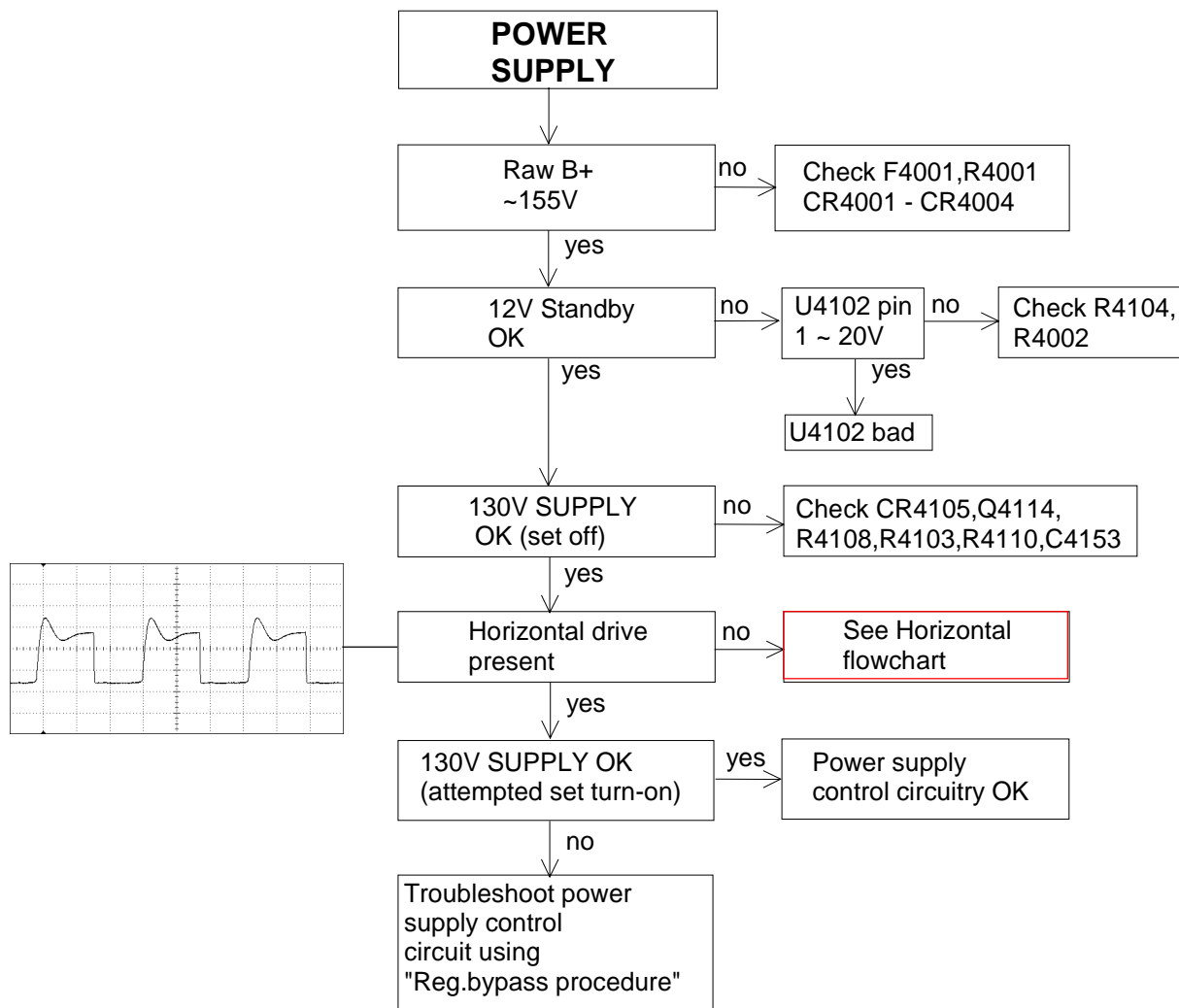


Section 7
TROUBLESHOOTING FLOWCHART SUBINDEX

	Page Number
Audio	7-6,7
Chrominance	7-10
Degauss Relay Repeatedly Switching On and Off	7-5
Horizontal	7-3
Kine Driver	7-6
Luminance	7-9
Mono Audio	7-6
No Tuning	7-12
Power Supply	7-2
Regulator Bypass Procedure	7-2
Set Will Not Turn On - Horizontal	7-3
Set Will Not Turn On - System Control	7-5
Stereo	7-8
System Control	7-5
Tuner	7-11
Vertical Collapse	7-4
Vertical Foldover	7-4
Vertical Interlace	7-4

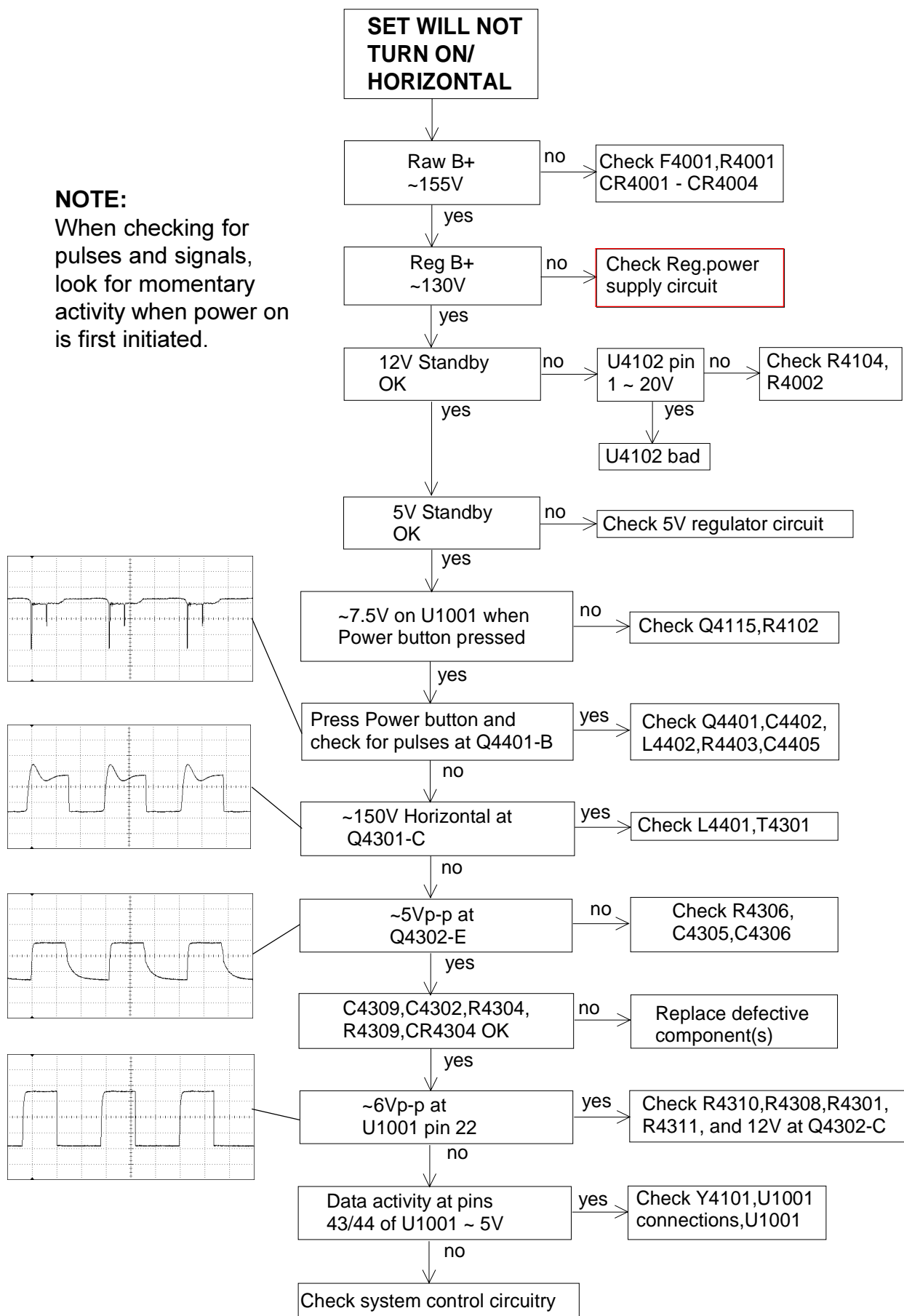
POWER SUPPLY TROUBLESHOOTING FLOWCHART**REGULATOR BYPASS PROCEDURE**

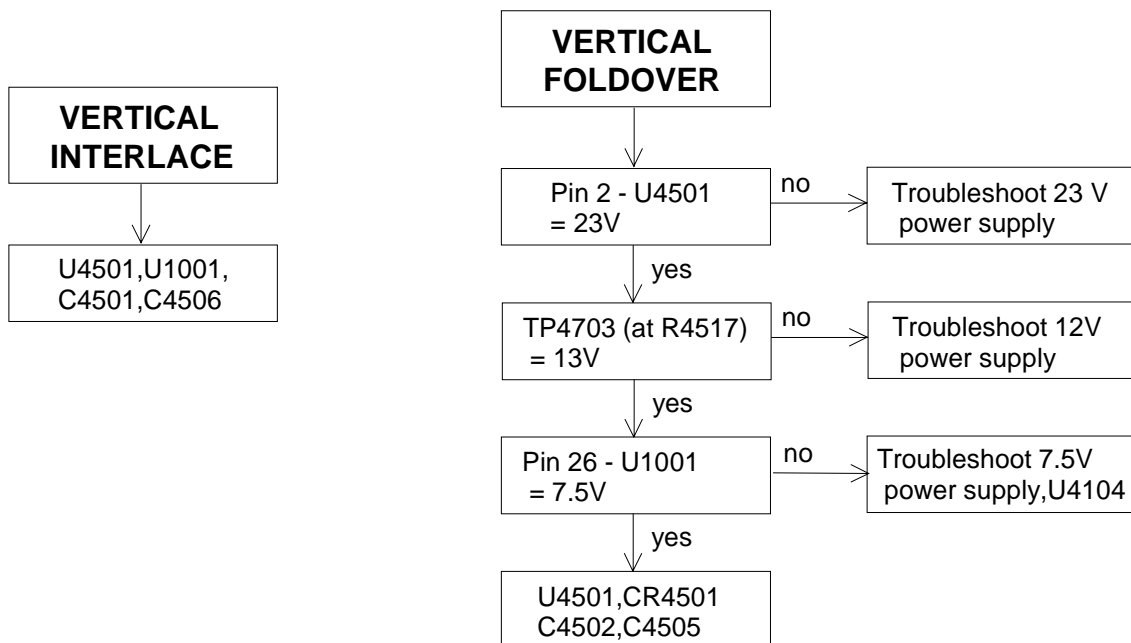
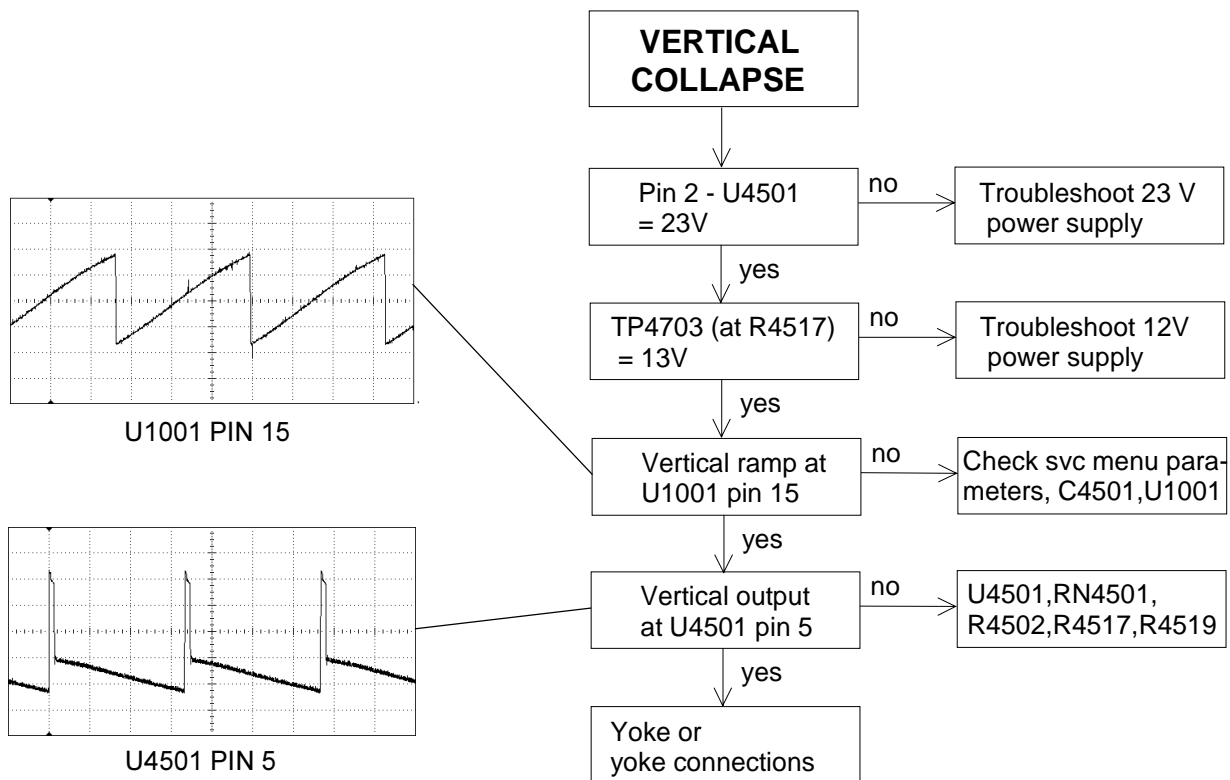
Trouble shooting of the supply is difficult because the supply will not operate unless the horizontal system is operating and the horizontal will not work unless the supply is operational. The solution is to fool the horizontal section into thinking the supply is operational and then the problem can be diagnosed. One method to accomplish this is to apply a short across the drain and source terminals of Q4114 and use a variac on the ac line to control the Reg B+ voltage. If the Reg B+ is allowed to get too high, the XRP circuit will shut off the horizontal oscillator. In order to get the chassis to turn on, the variac must be set to provide between 90 and 95 volts ac rms to the chassis. After the chassis is operational use the variac to set the reg B+ voltage as close as possible to 130Vdc. Now the power supply circuit can be diagnosed using the waveforms shown on the schematics.

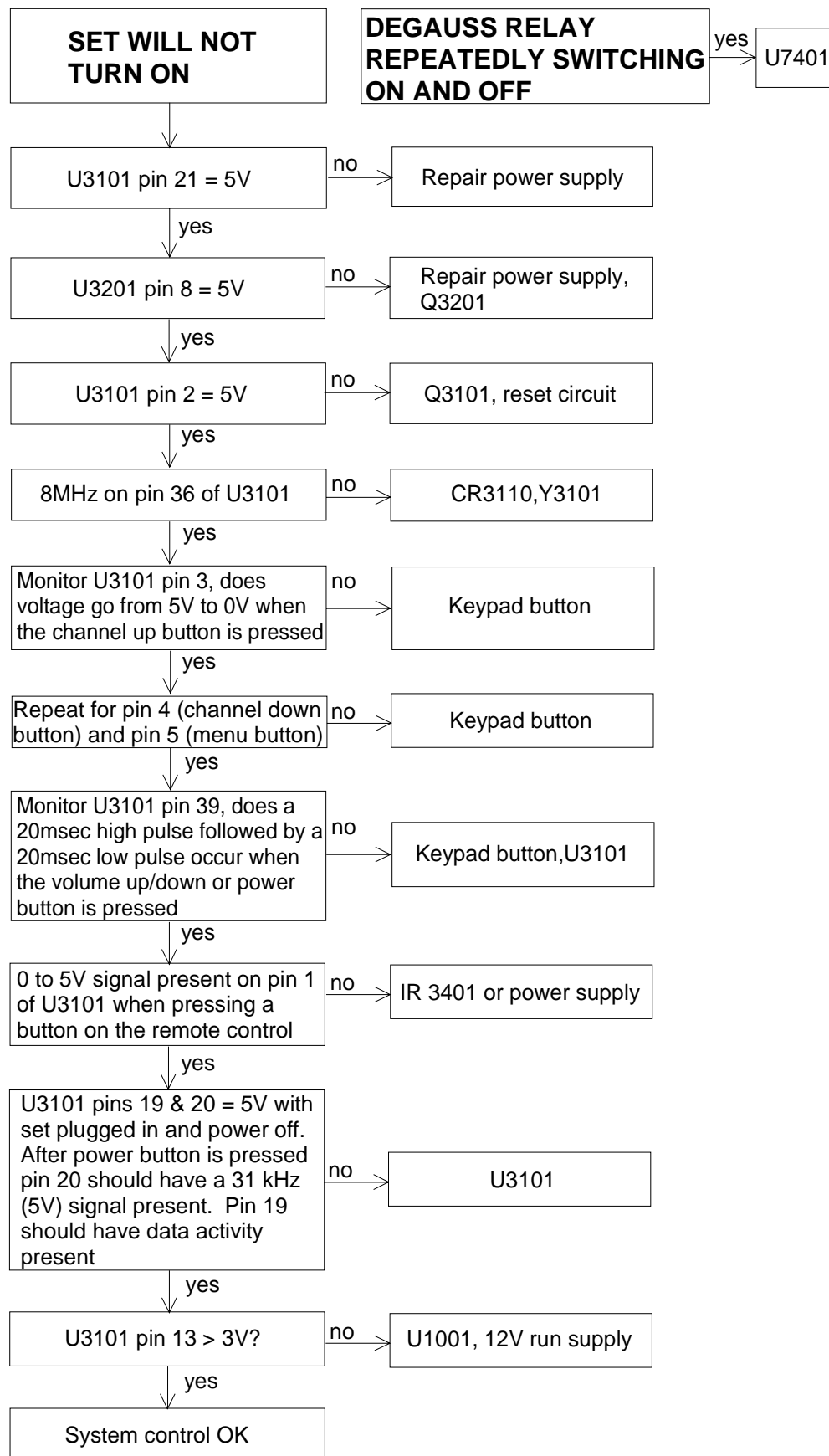
SET WILL NOT TURN ON/HORIZONTAL SECTION TROUBLESHOOTING FLOWCHART

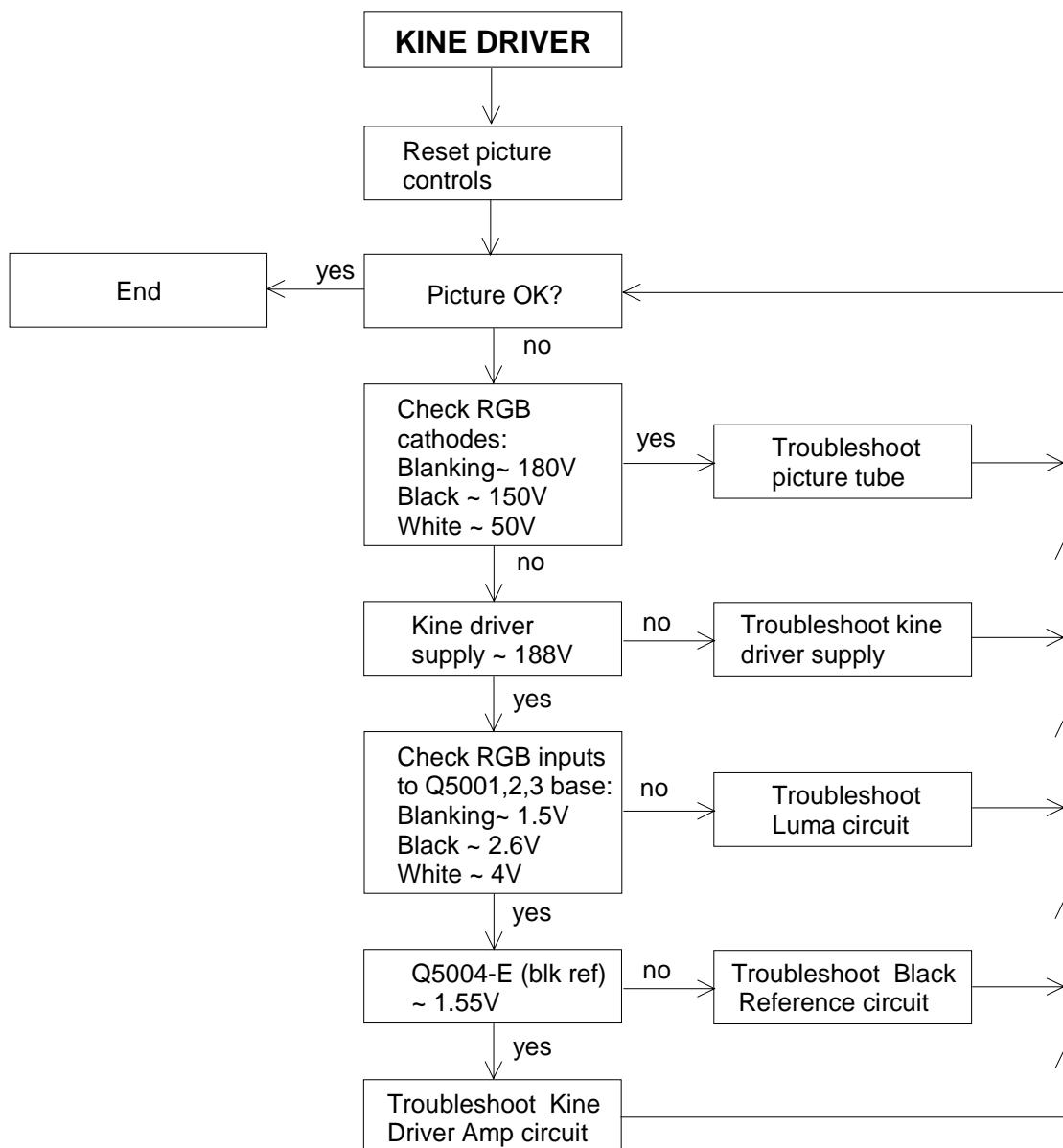
NOTE:

When checking for pulses and signals, look for momentary activity when power on is first initiated.



VERTICAL SECTION TROUBLESHOOTING FLOWCHART

SYSTEM CONTROL TROUBLESHOOTING FLOWCHART

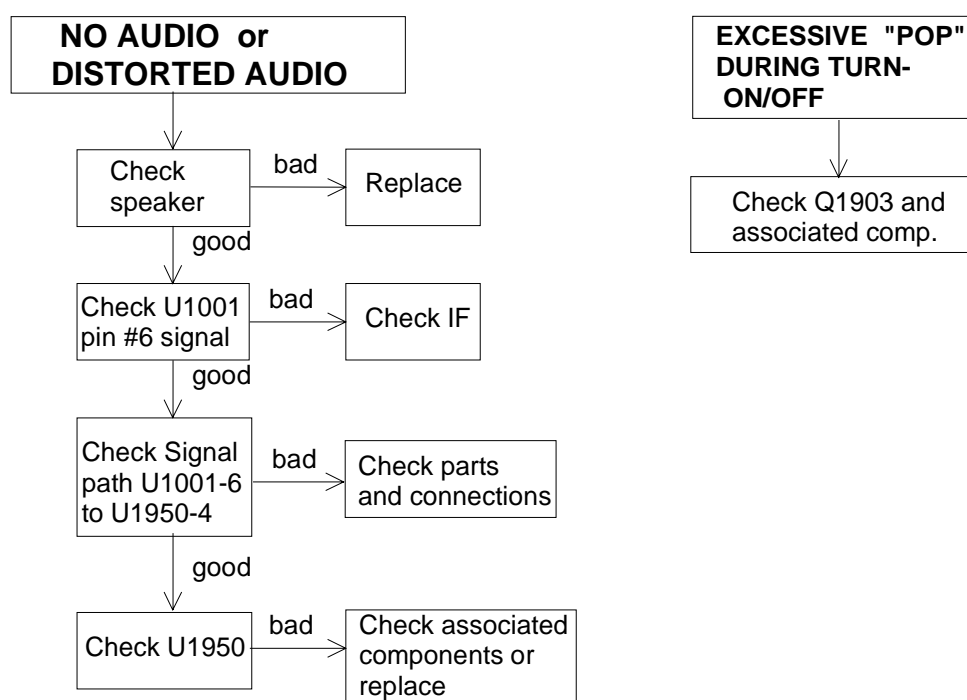
KINE DRIVER SECTION TROUBLESHOOTING FLOWCHART

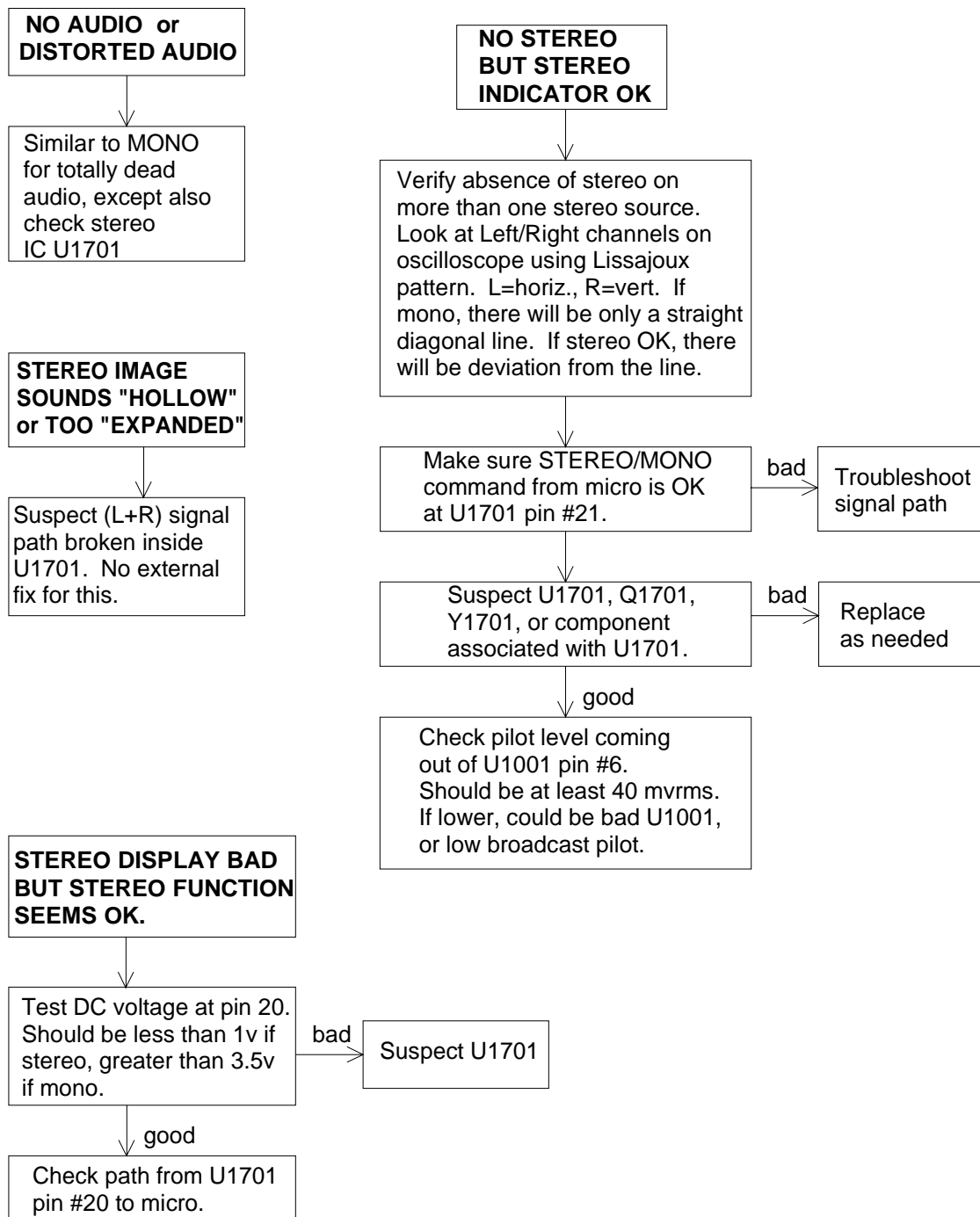
AUDIO TROUBLESHOOTING**SYMPTOM****CHECK**

Power amp oscillation R/C stability networks on power amp output pins (.1uF/4.7ohm)

Distortion or cut-out after warmup Power amp properly clamped to heatsink

Frequency response wrong Components in L-R signal path

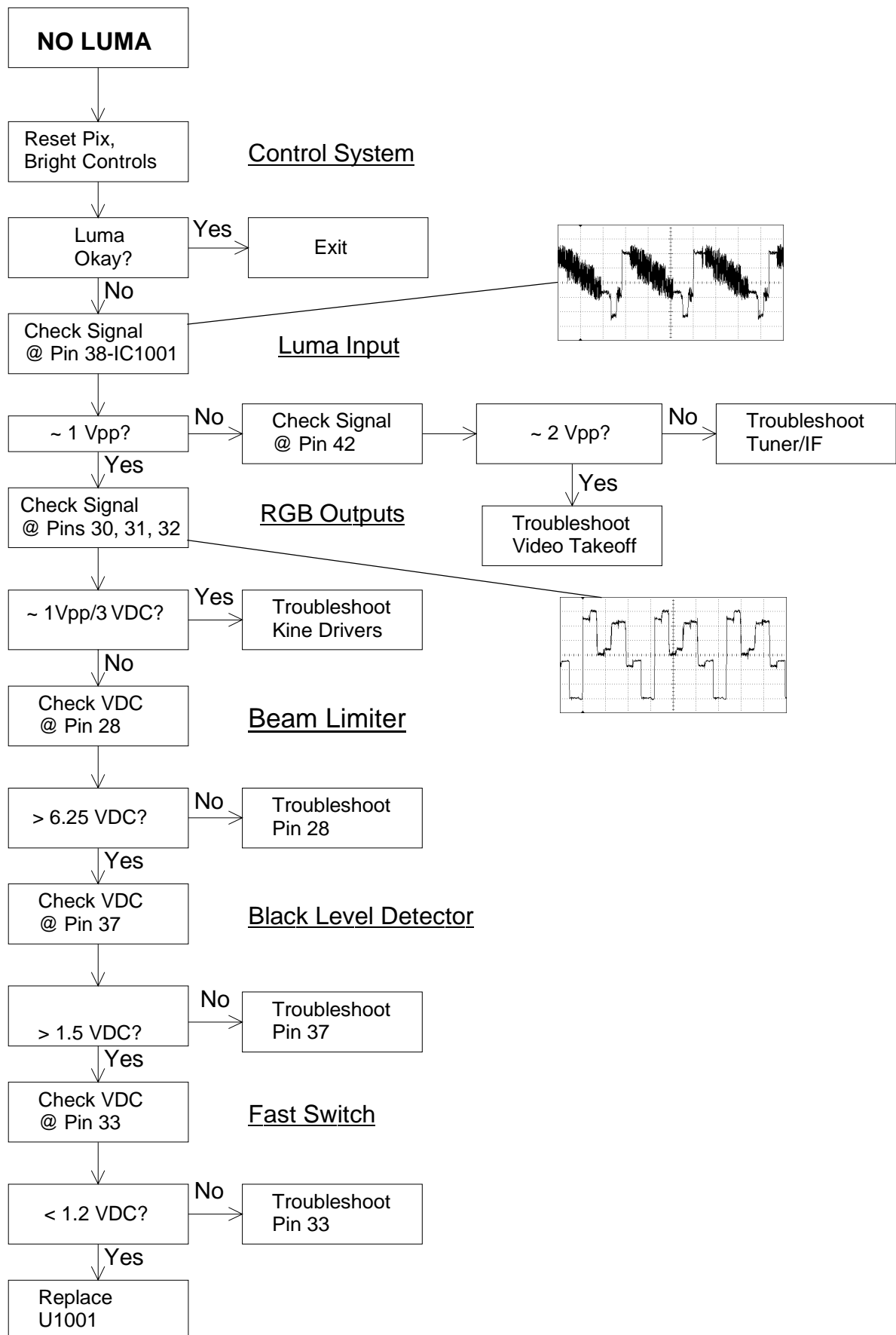
MONAURAL AUDIO TROUBLESHOOTING FLOWCHART

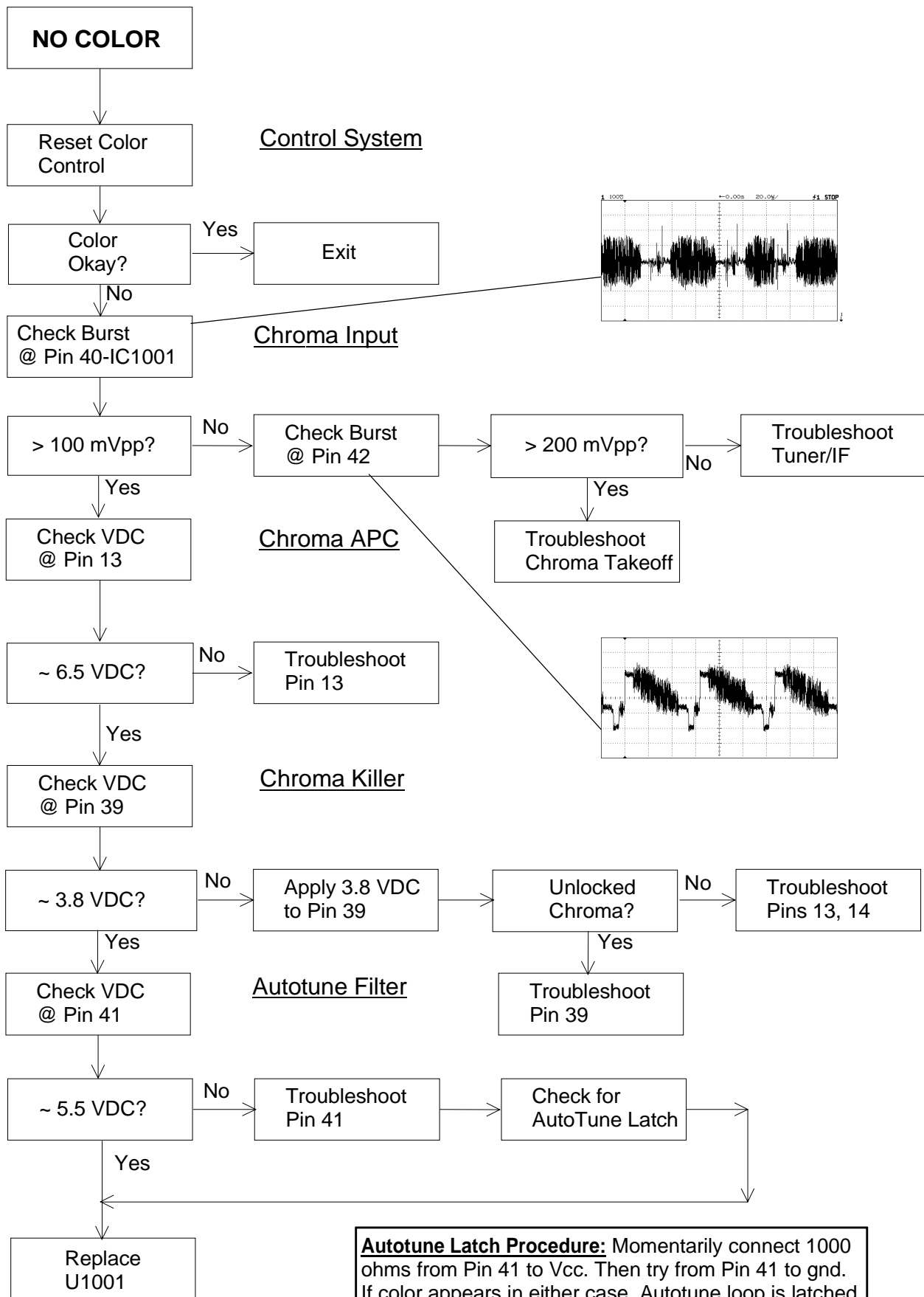
STEREO AUDIO TROUBLESHOOTING FLOWCHART

TROUBLESHOOTING (Continued)

[Return to SubIndex](#)

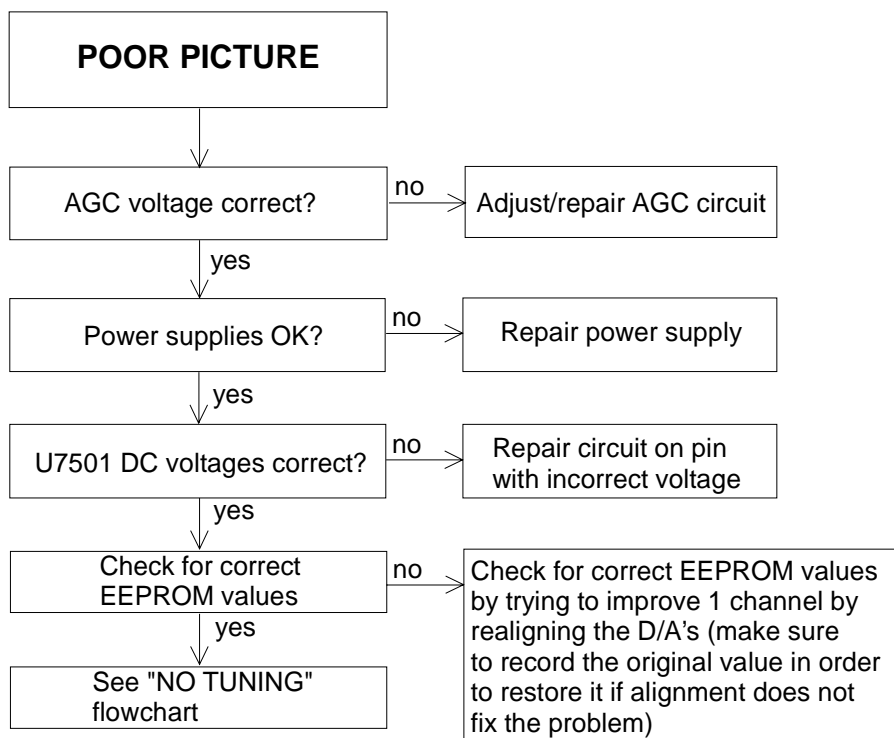
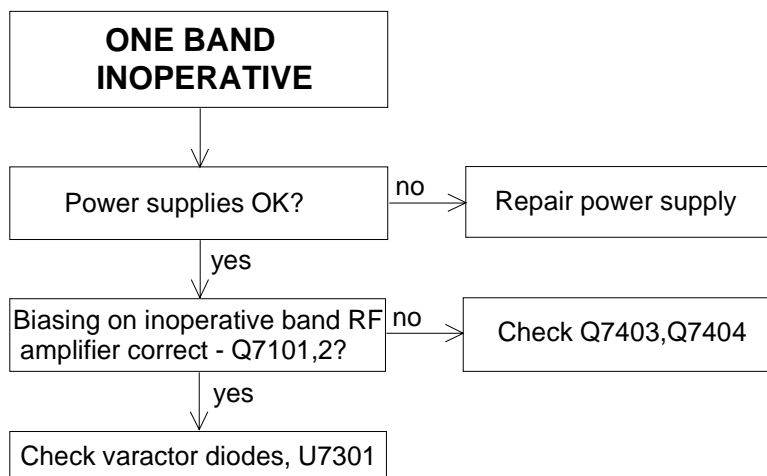
LUMINANCE TROUBLESHOOTING FLOWCHART

[Return to SubIndex](#)

CHROMINANCE TROUBLESHOOTING FLOWCHART

TUNER TROUBLESHOOTING FLOWCHART

1. Connect a service generator to the antenna input (no attenuation).
2. Check operation of all bands. If only 1 or 2 bands are not functioning limit troubleshooting checks to those bands.



TUNER TROUBLESHOOTING FLOWCHART