

025c

SERVICE MANUAL



FISHER®

Vol. 3

Issue Number 1

- Troubleshooting Charts for Electrical Circuits

FVH-922

Video Cassette Recorder



THE FIRST NAME IN HIGH FIDELITY

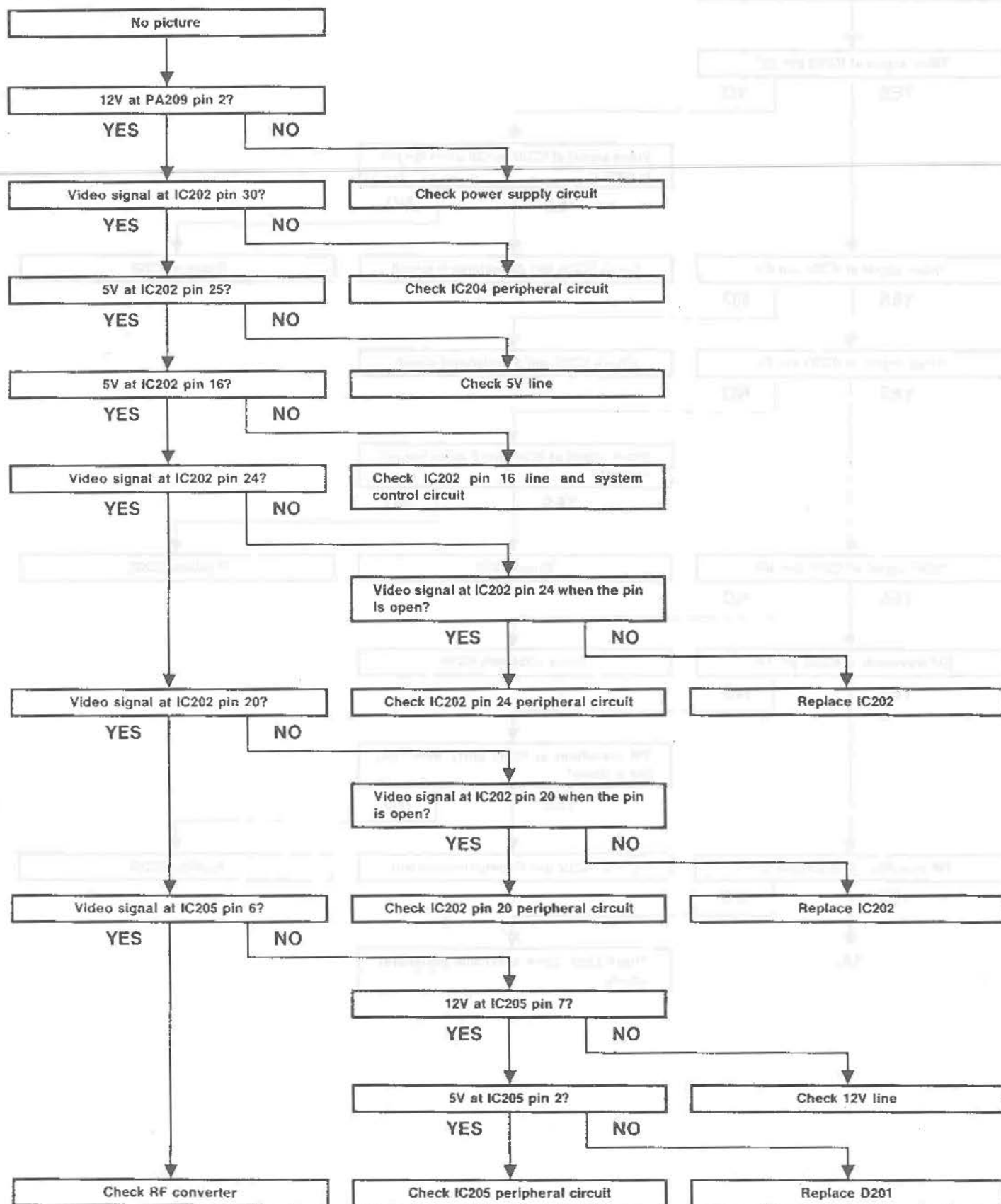
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TROUBLESHOOTING

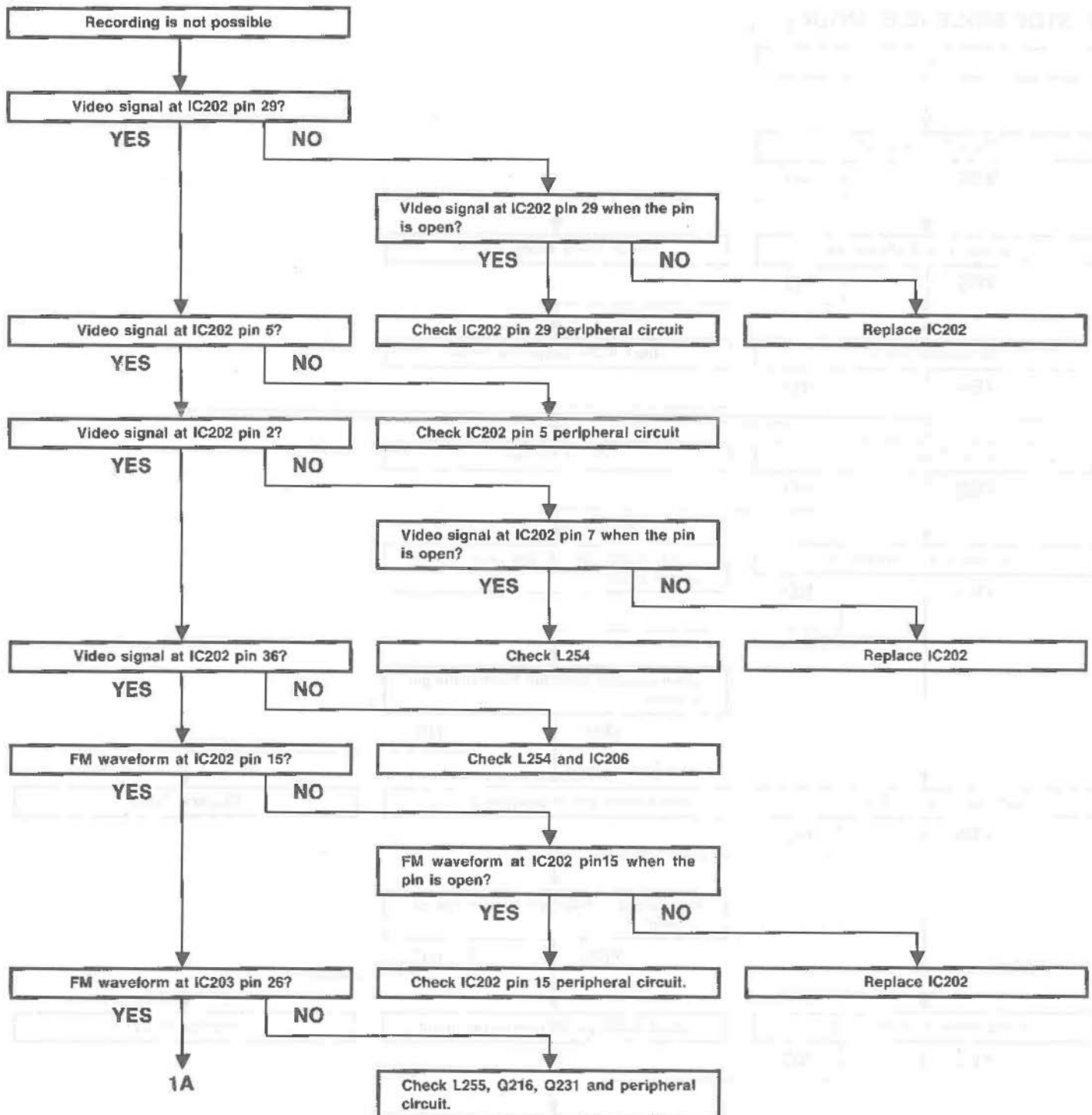
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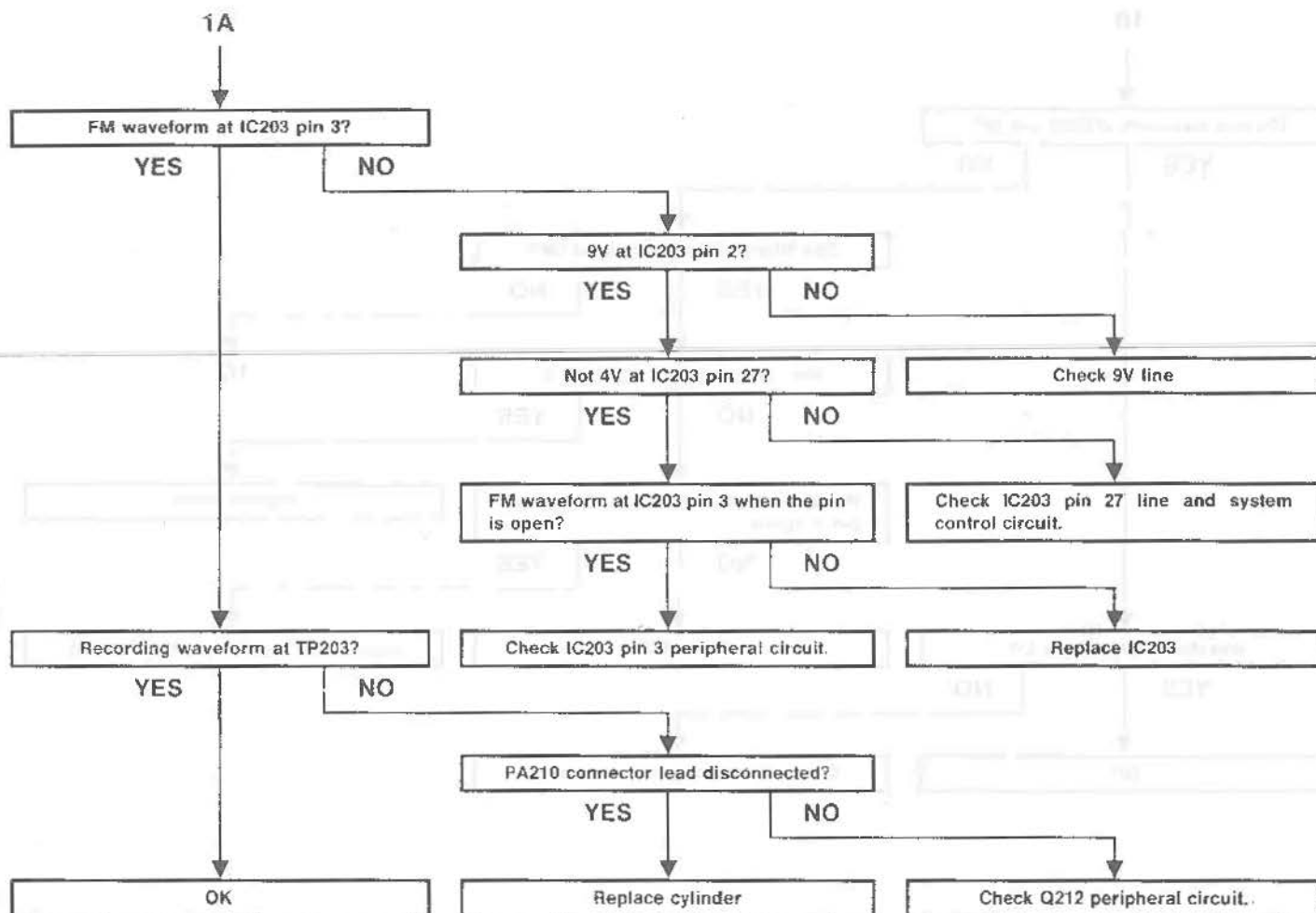
1. VIDEO CIRCUIT

1. STOP MODE (E.E. MODE)

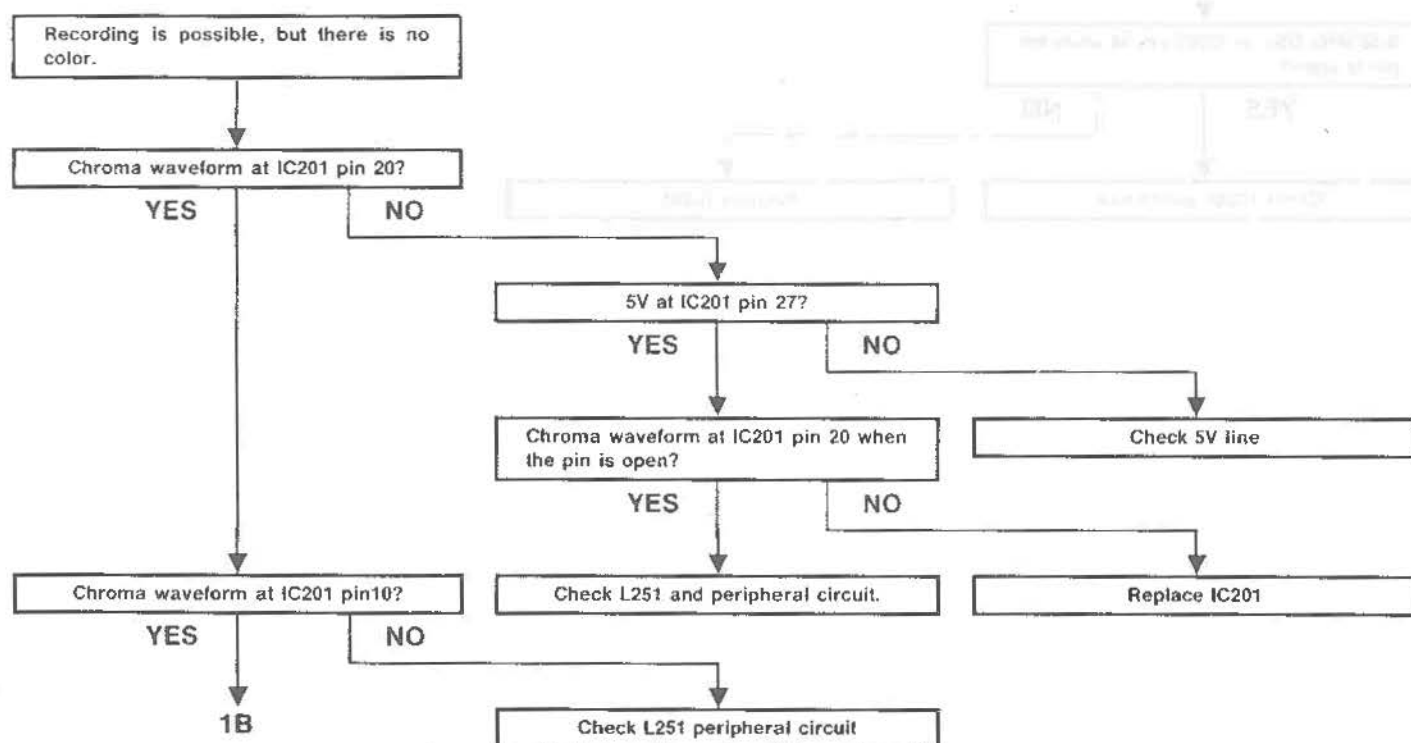


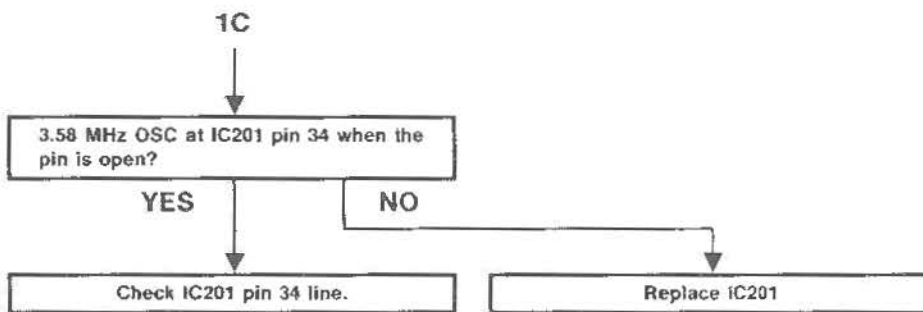
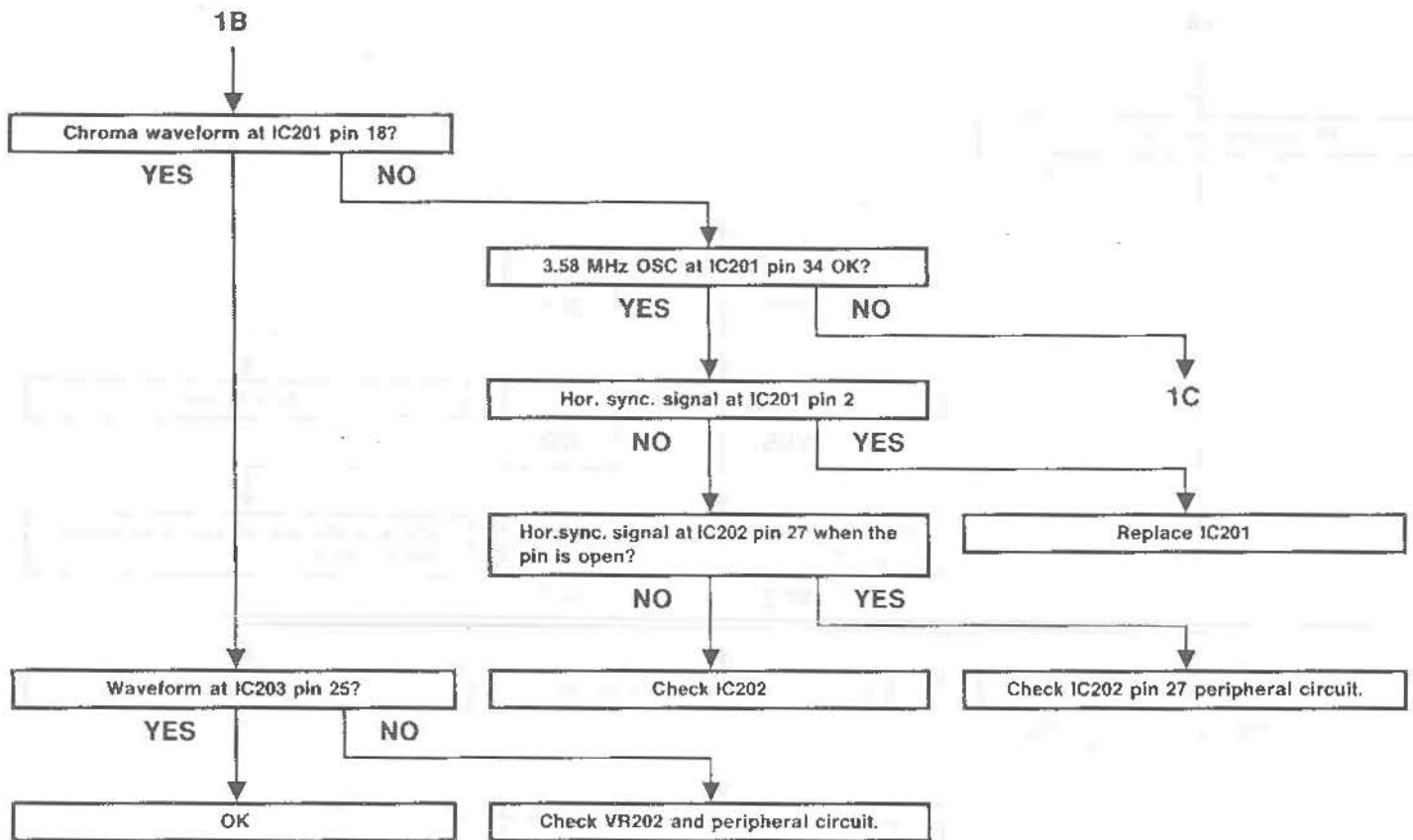
2. RECORDING MODE (LUMINANCE)



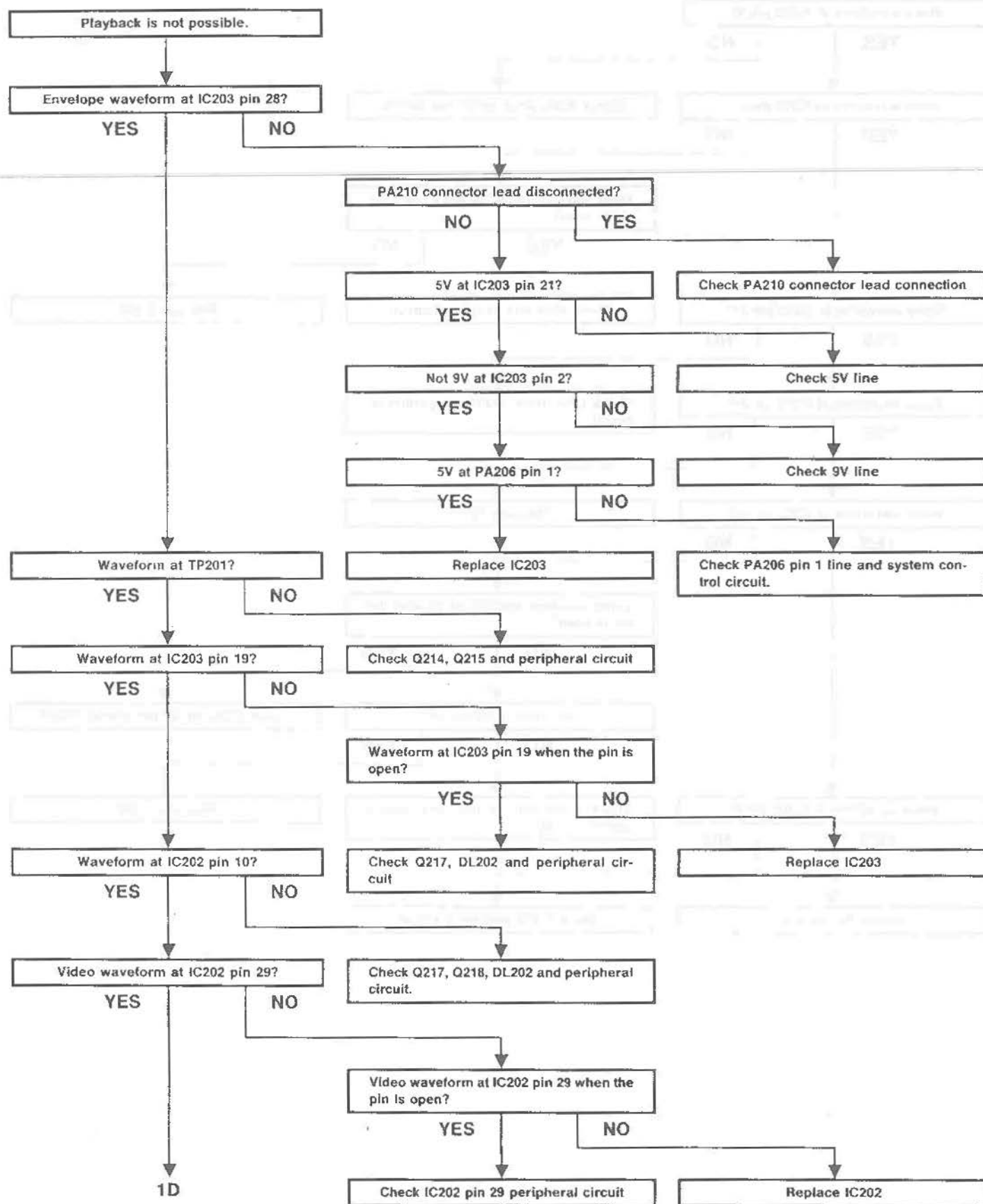


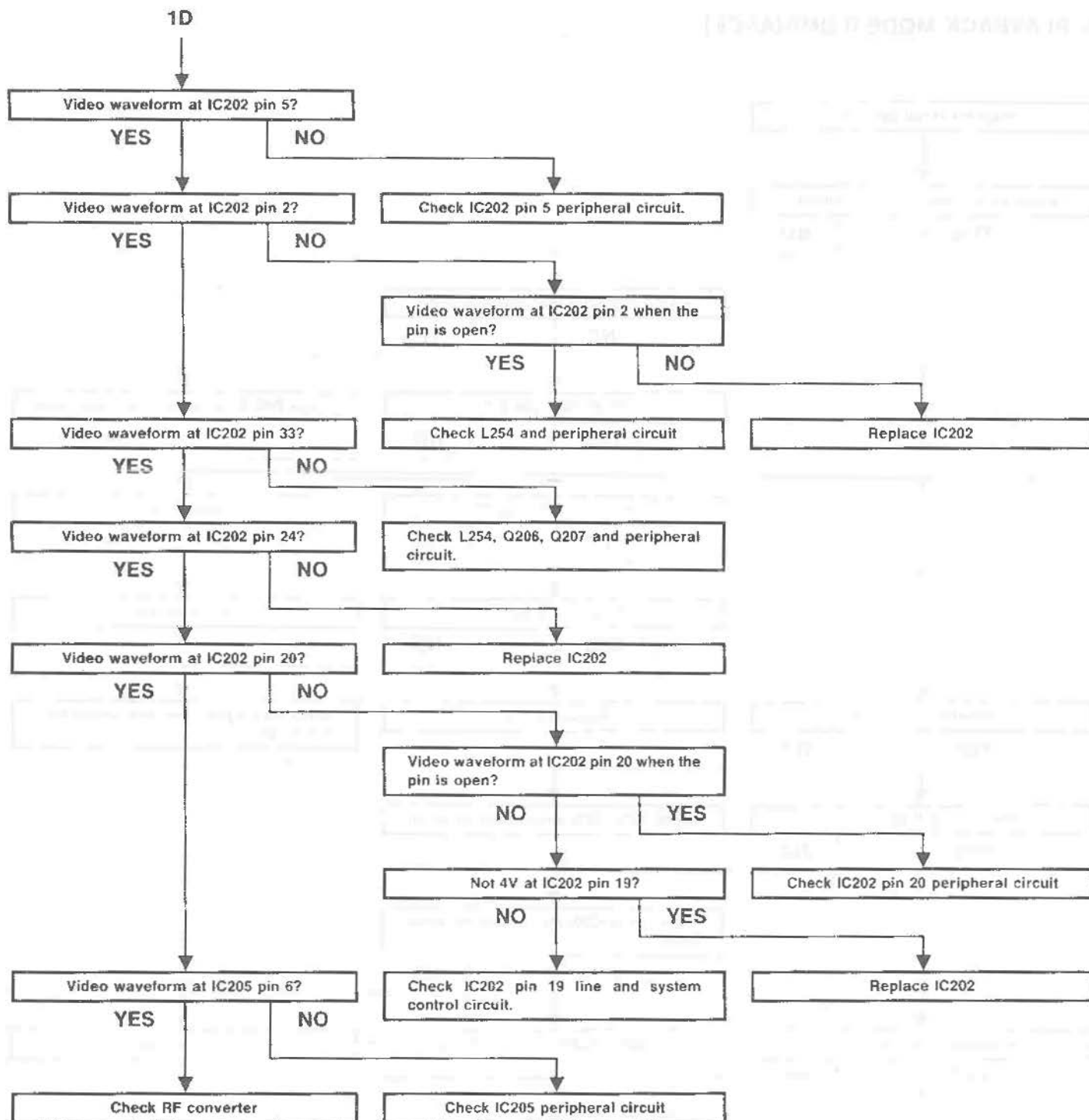
3. RECORDING MODE (COLOR)



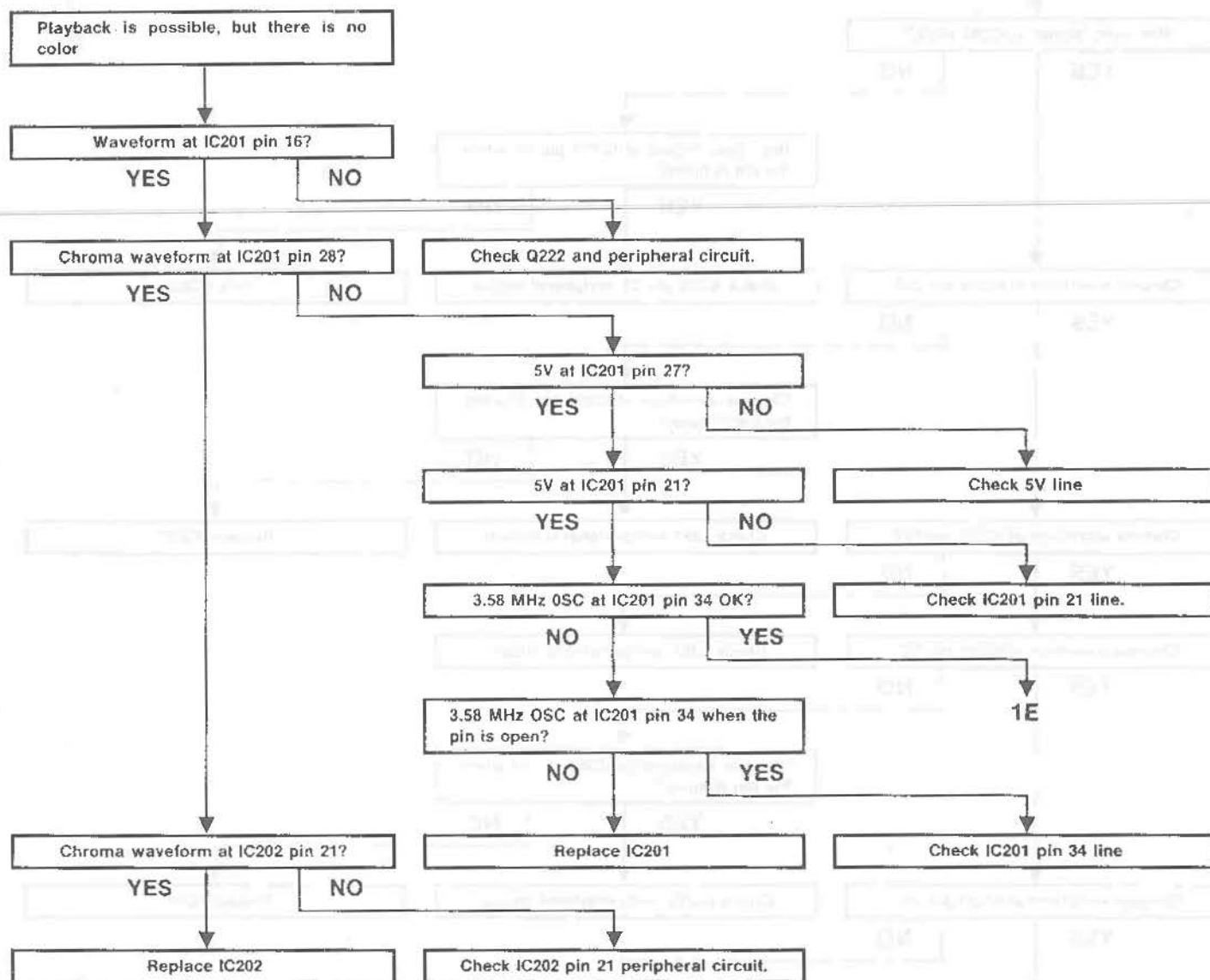


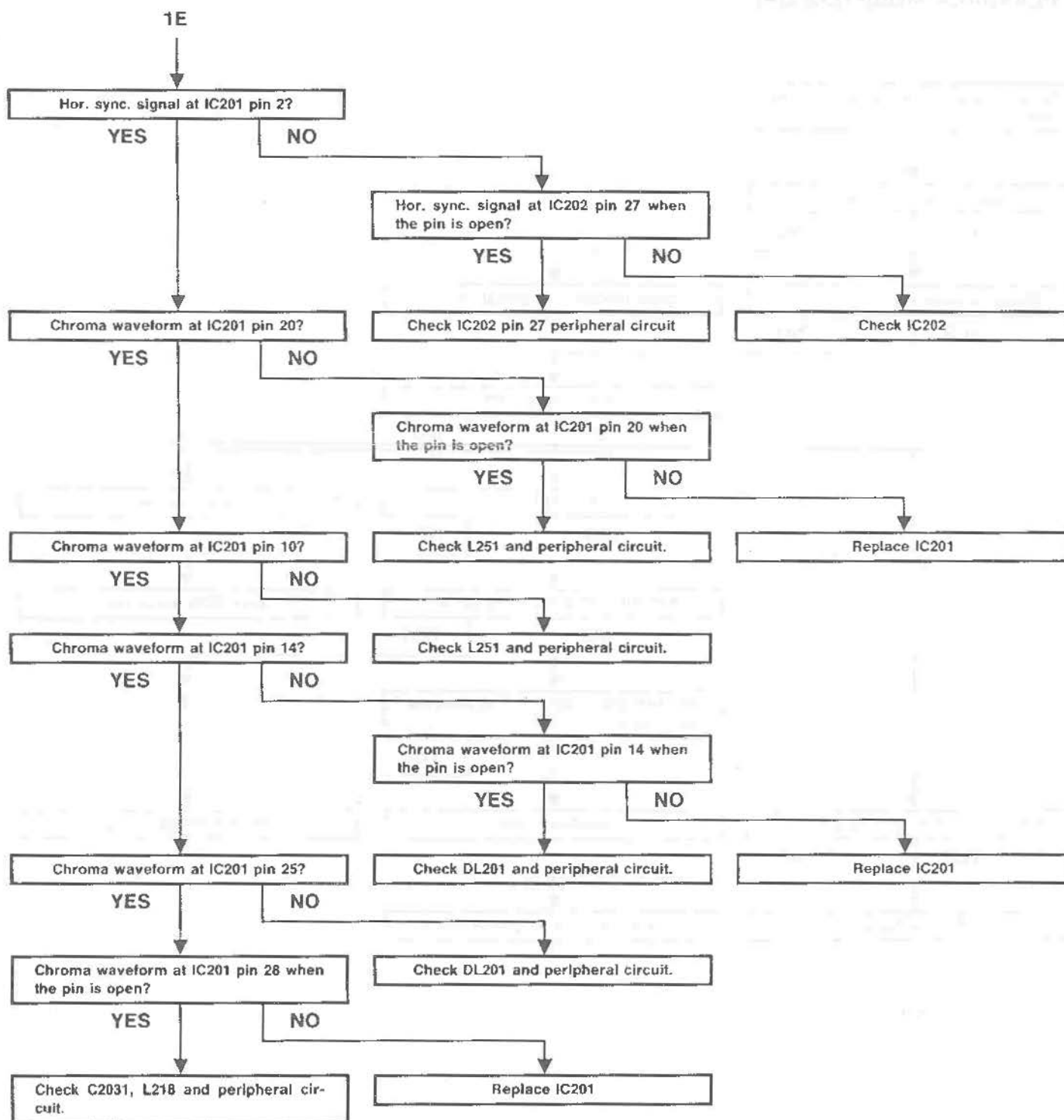
4. PLAYBACK MODE (LUMINANCE)



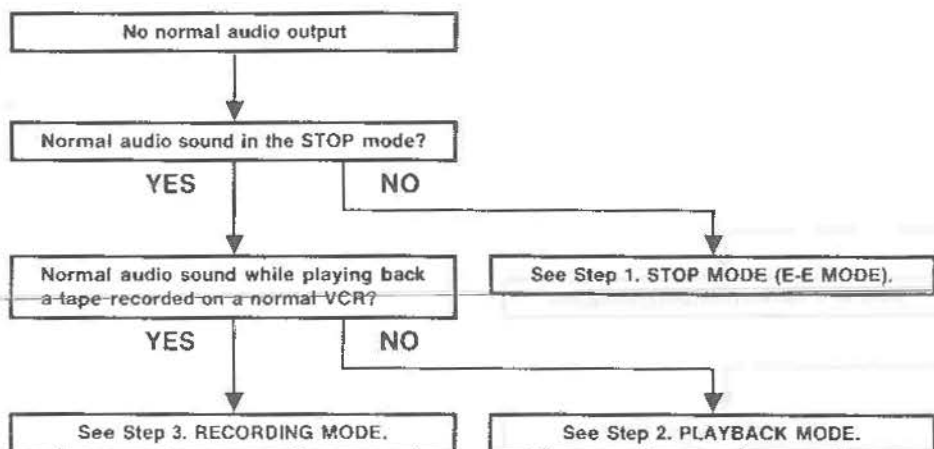


5. PLAYBACK MODE (COLOR)

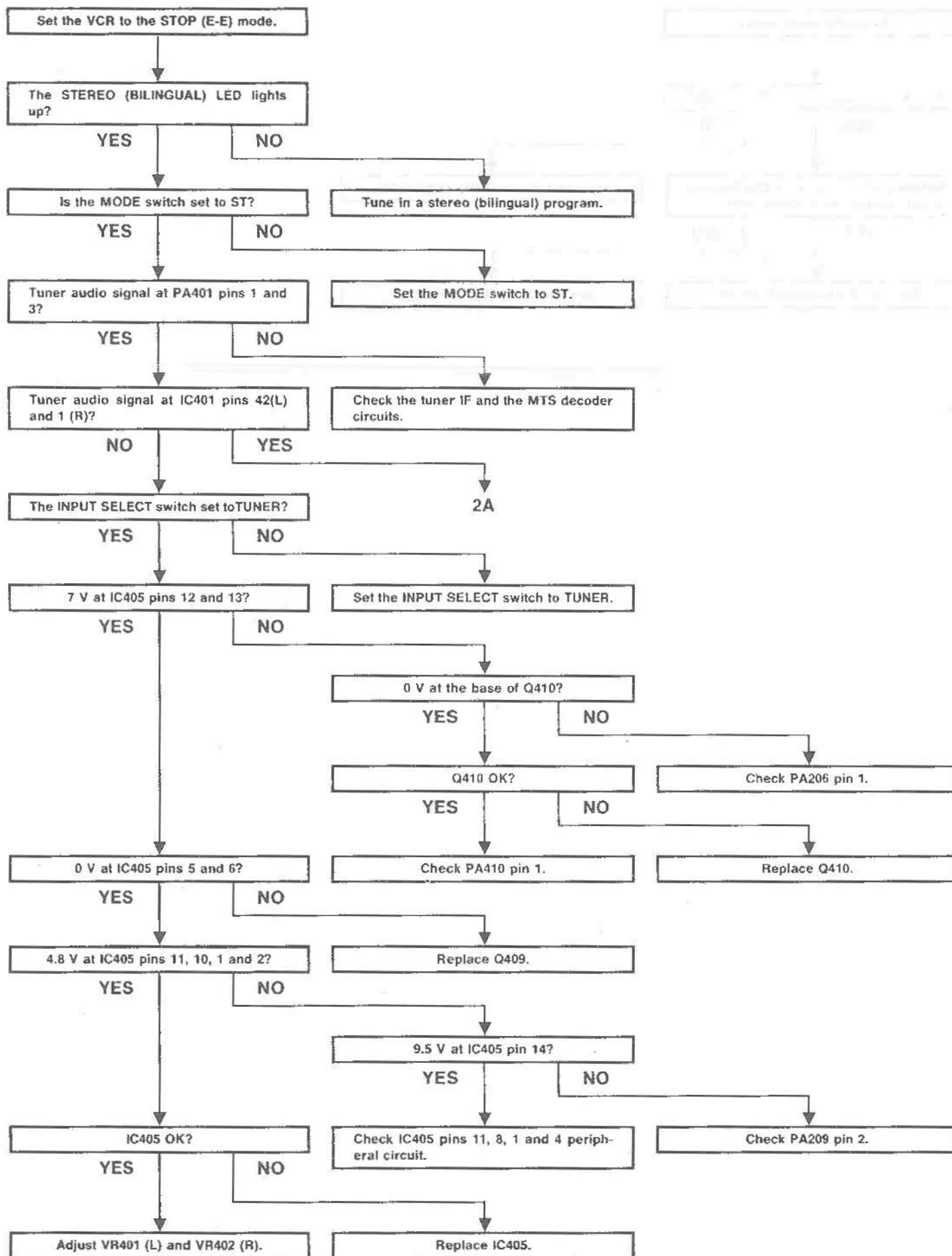


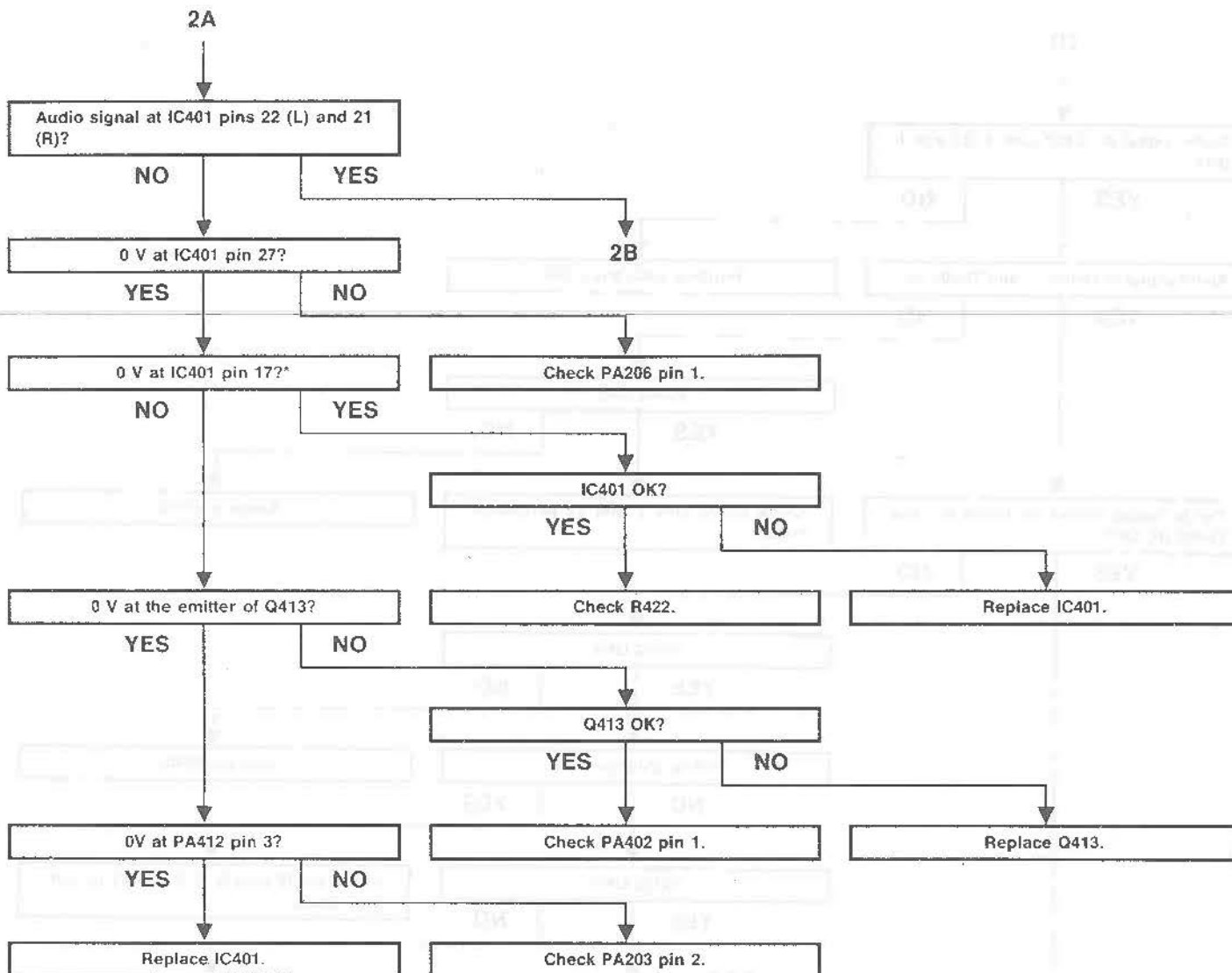


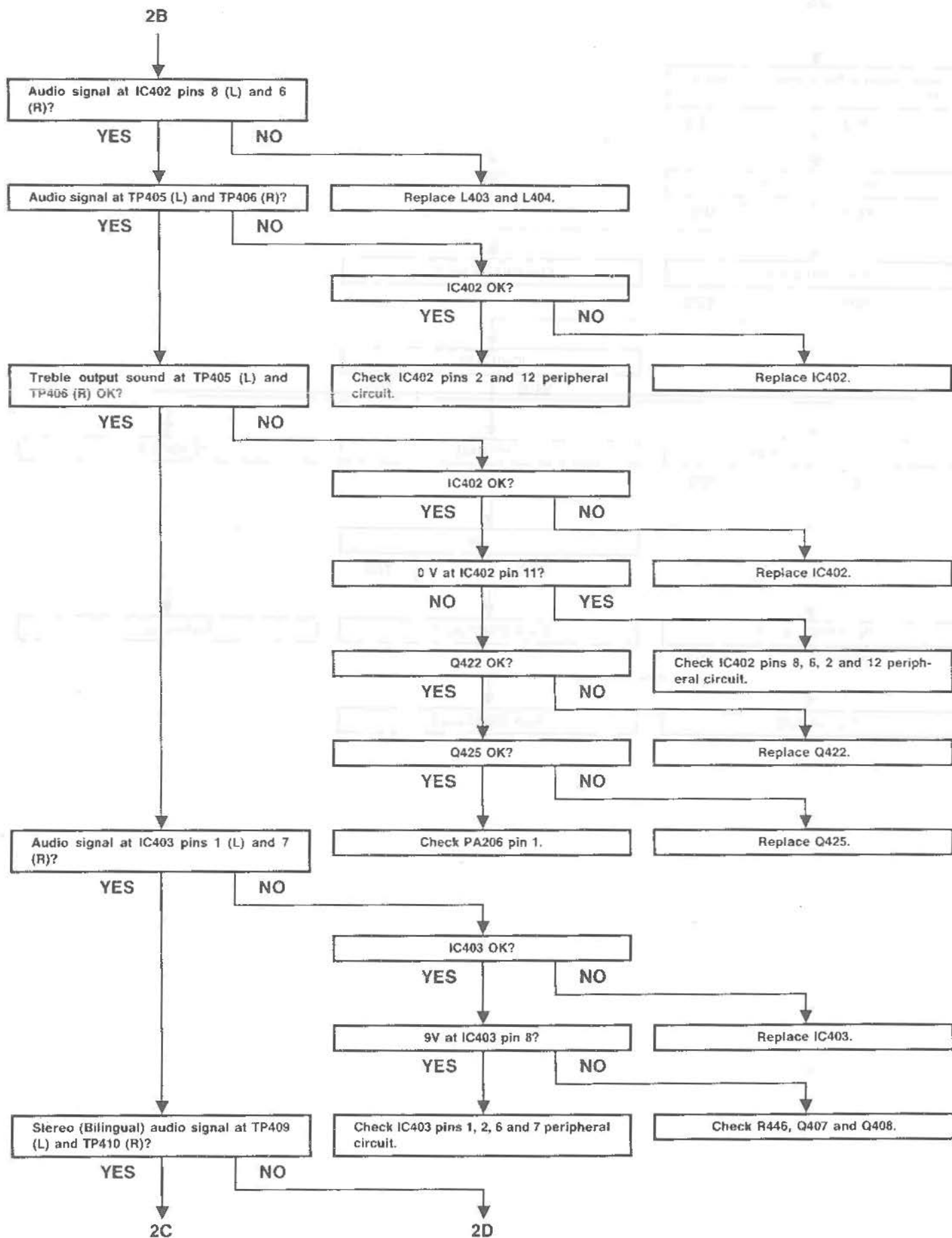
2. AUDIO CIRCUIT



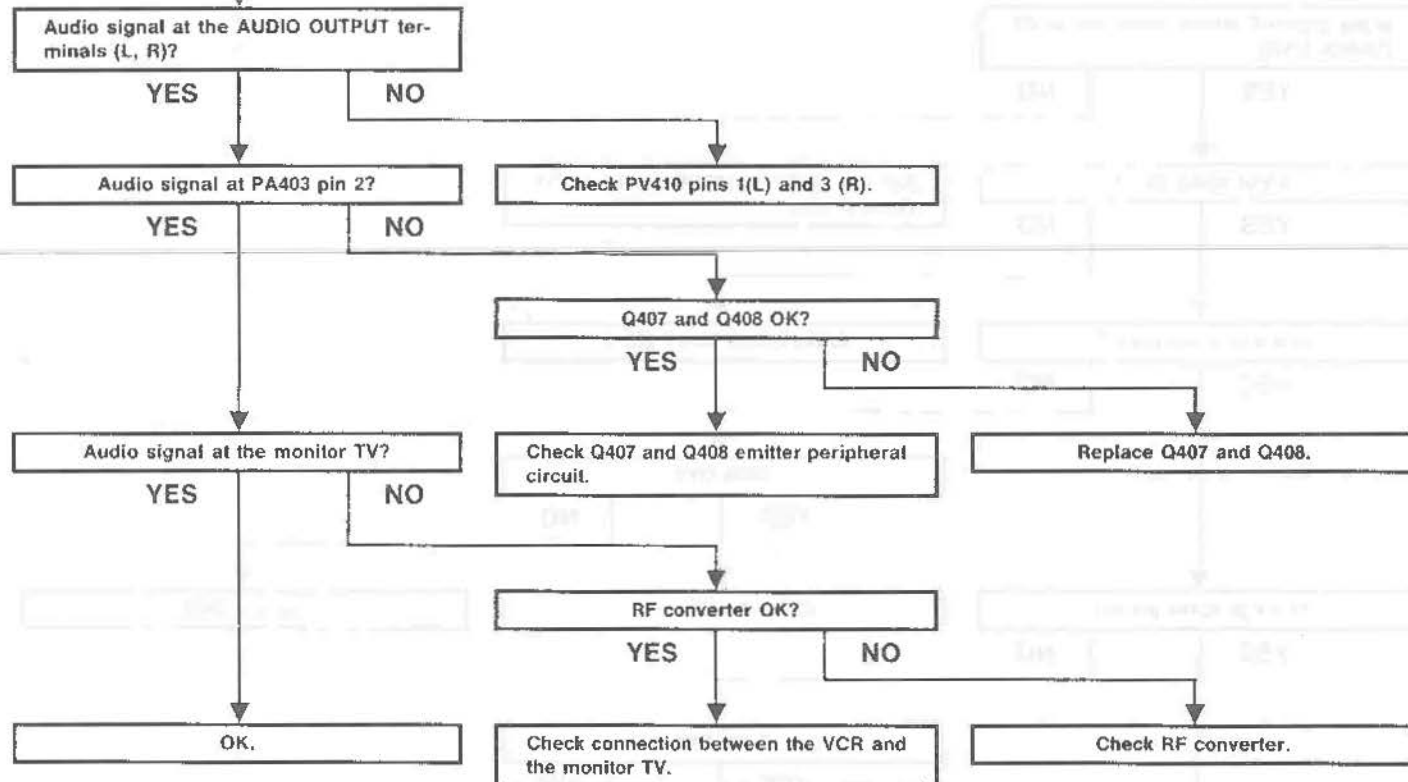
Step 1. STOP MODE (E-E MODE)



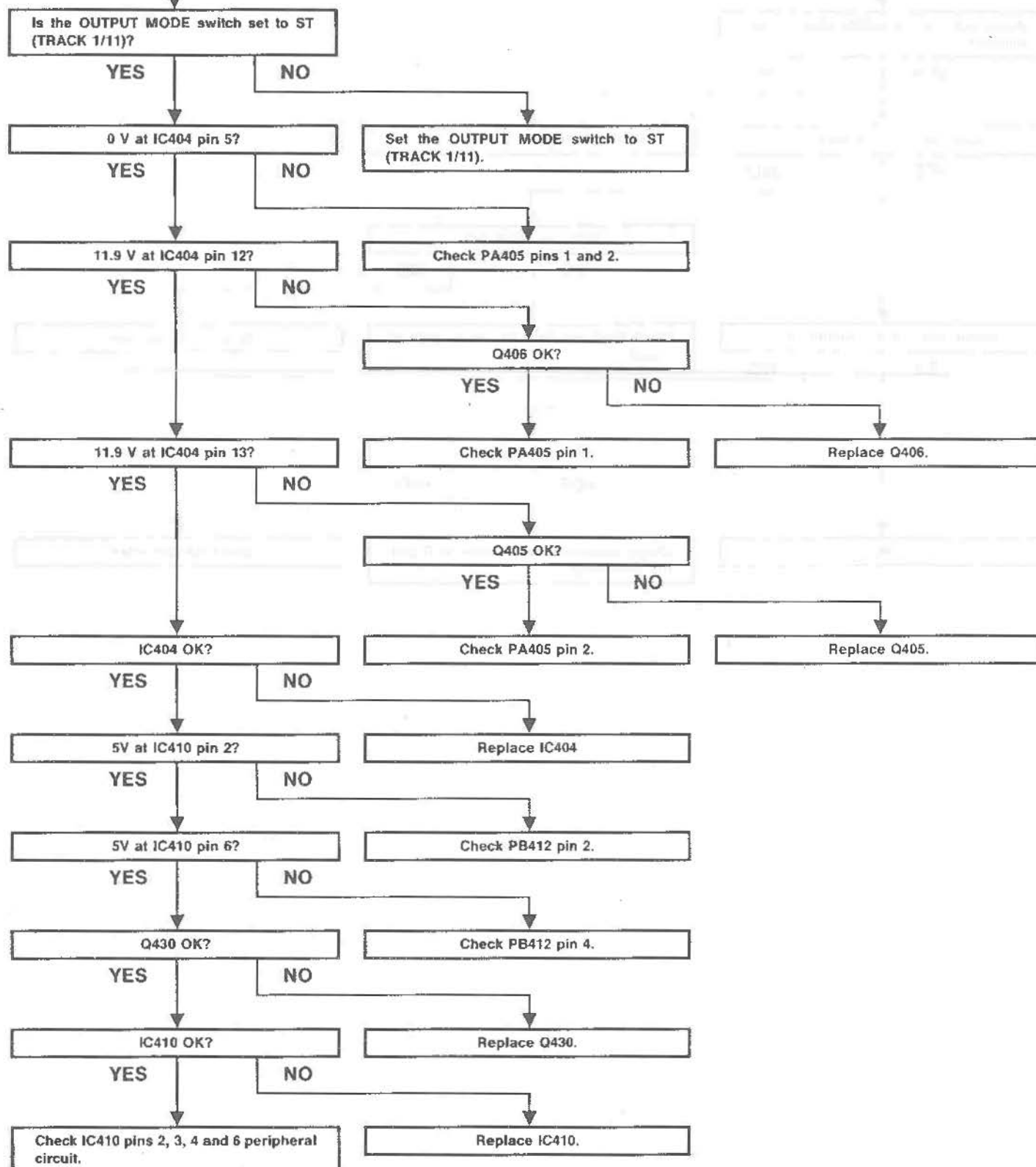




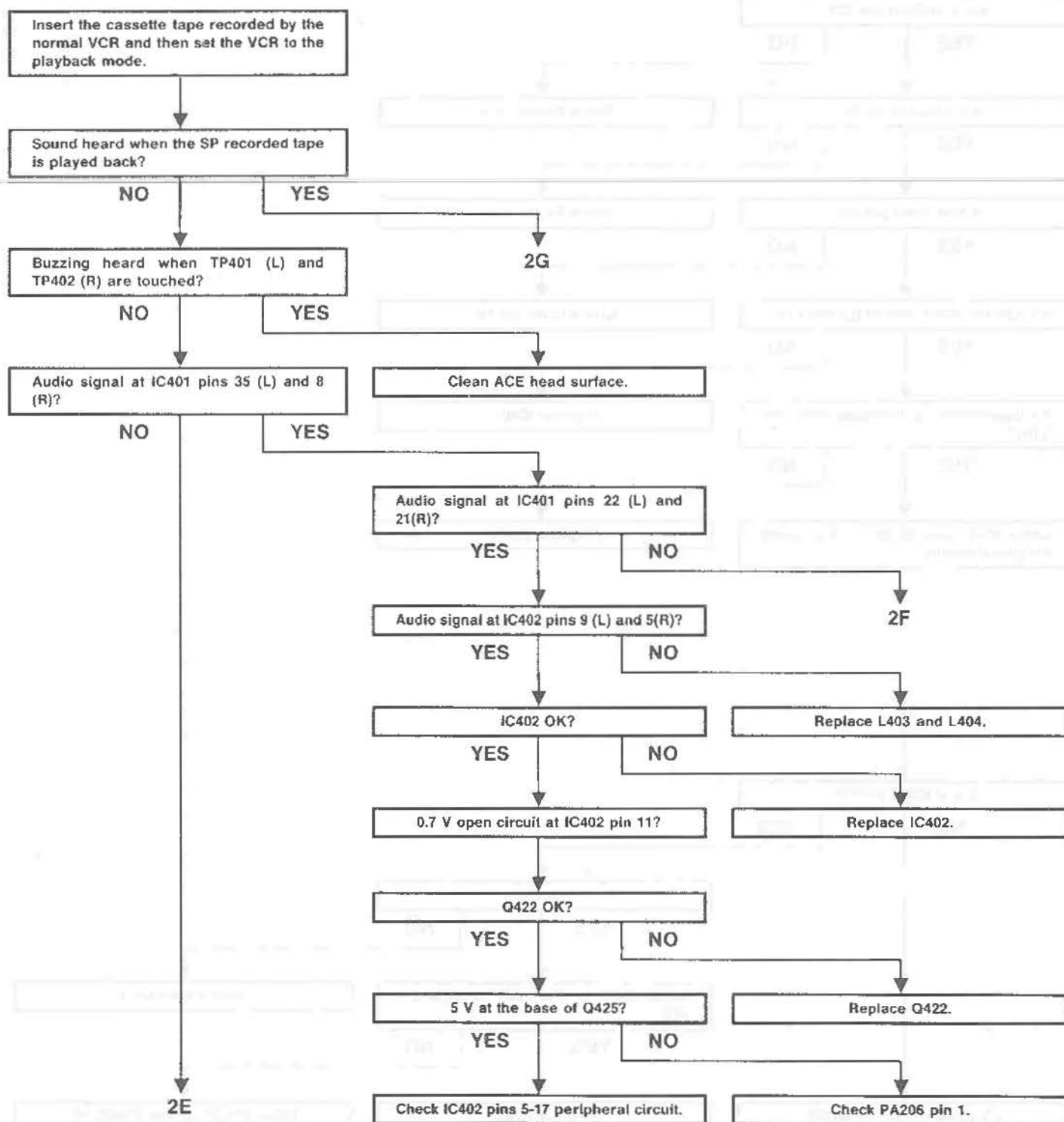
2C

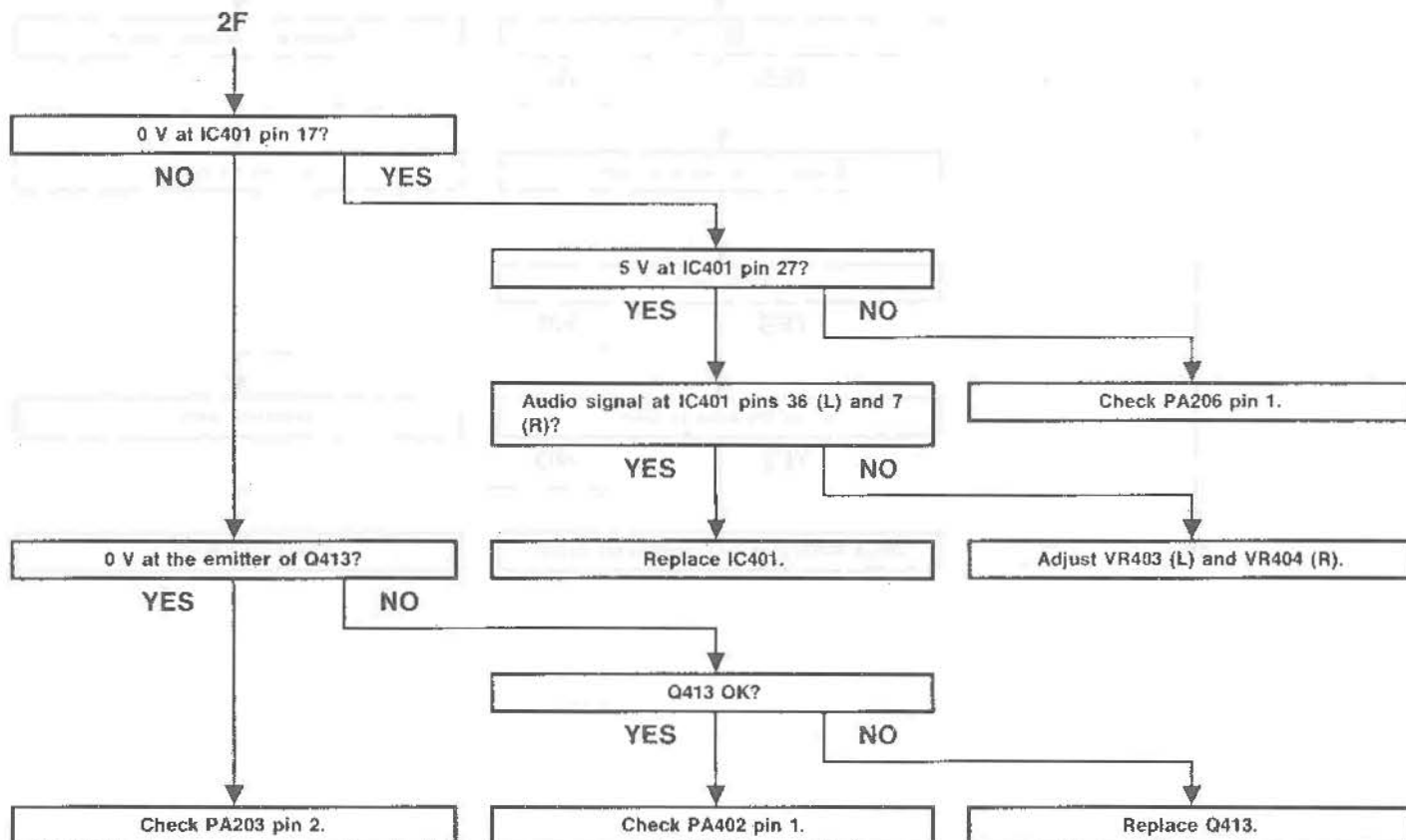
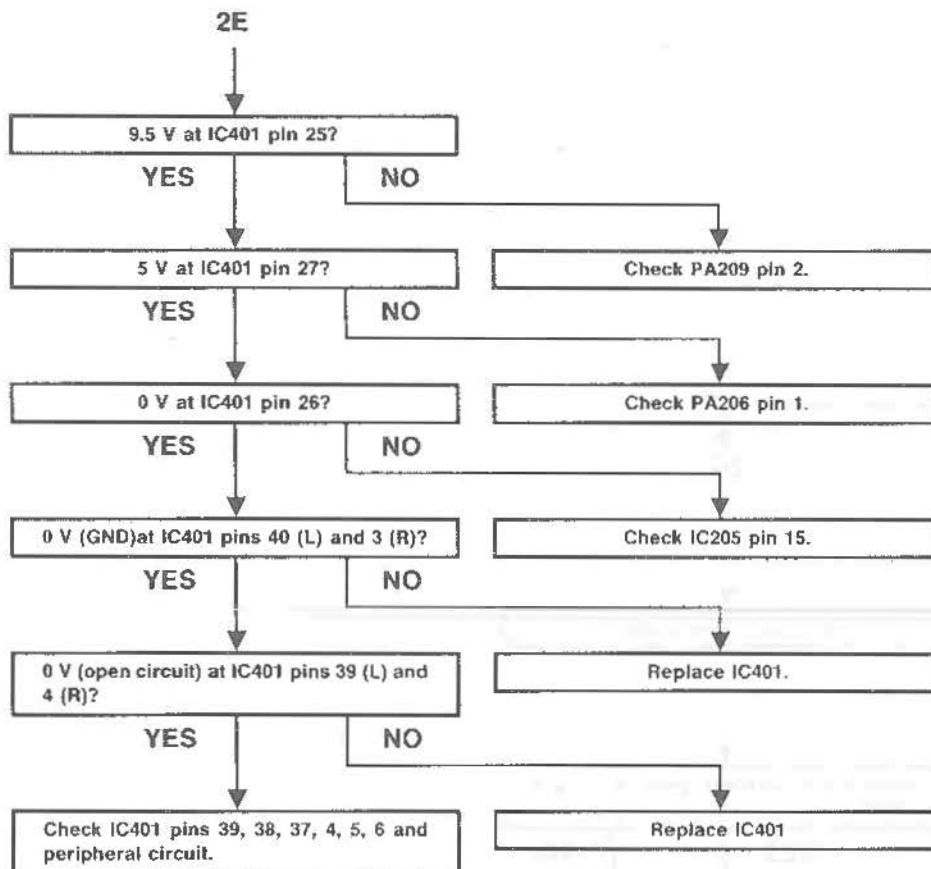


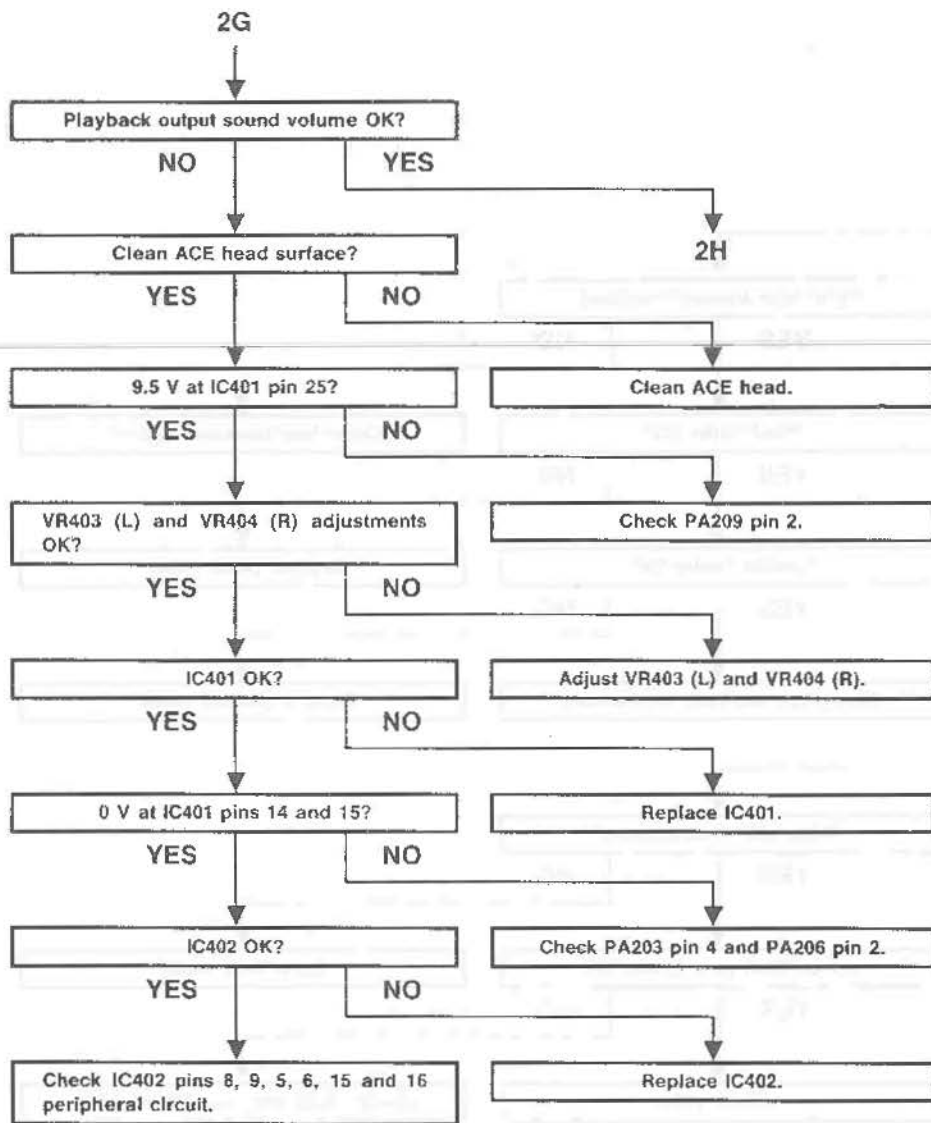
2D

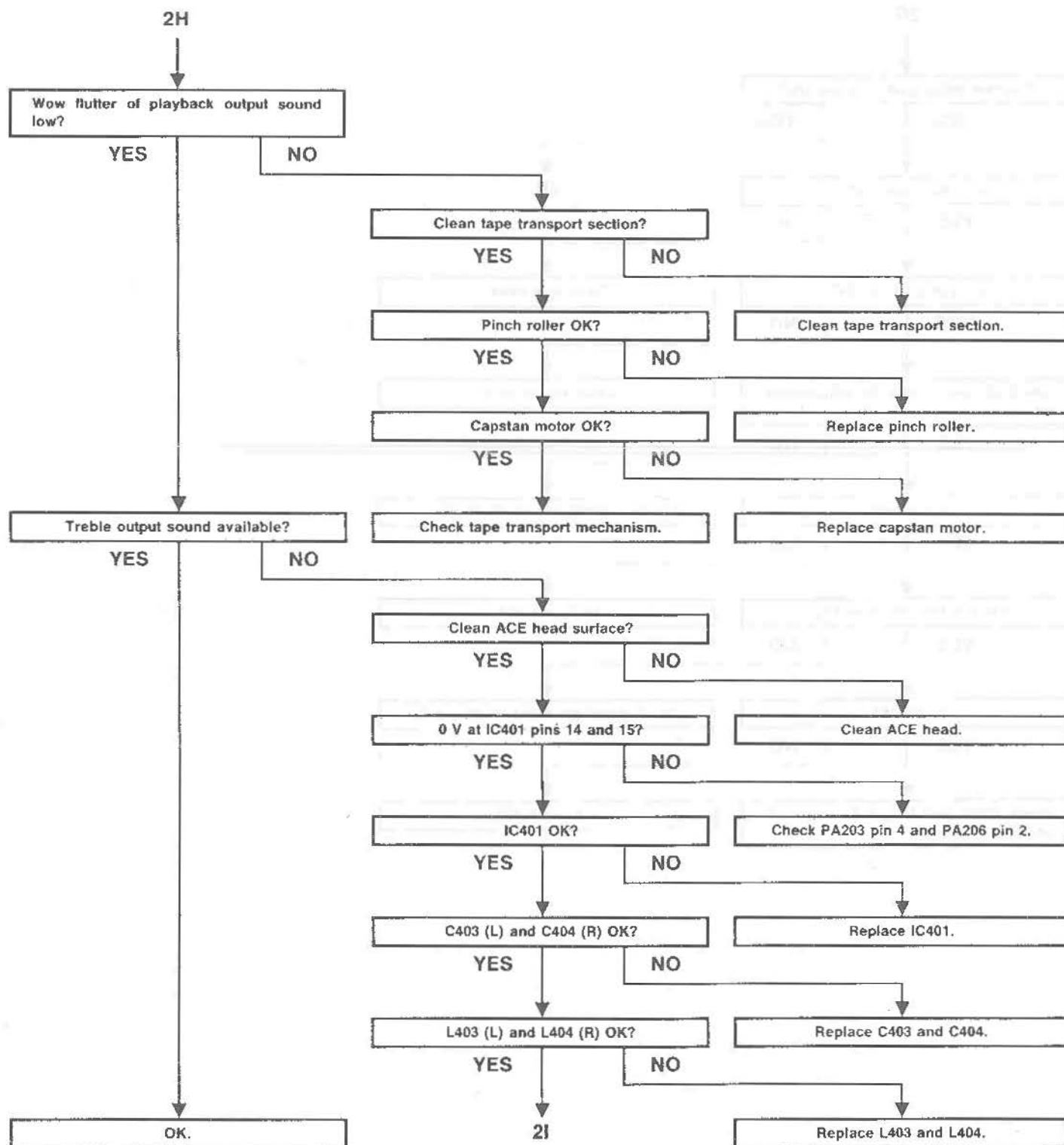


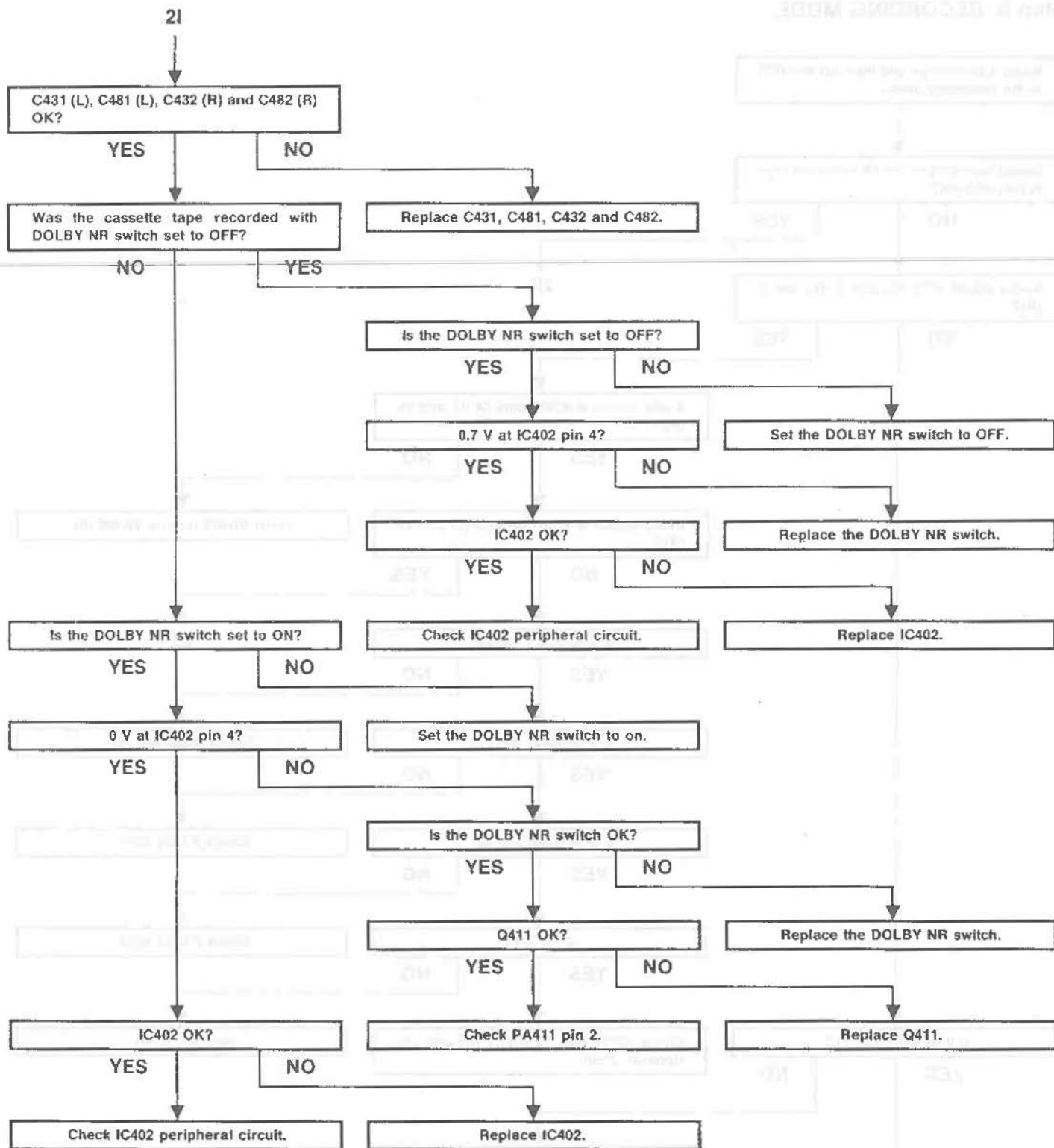
Step. 2 PLAYBACK MODE



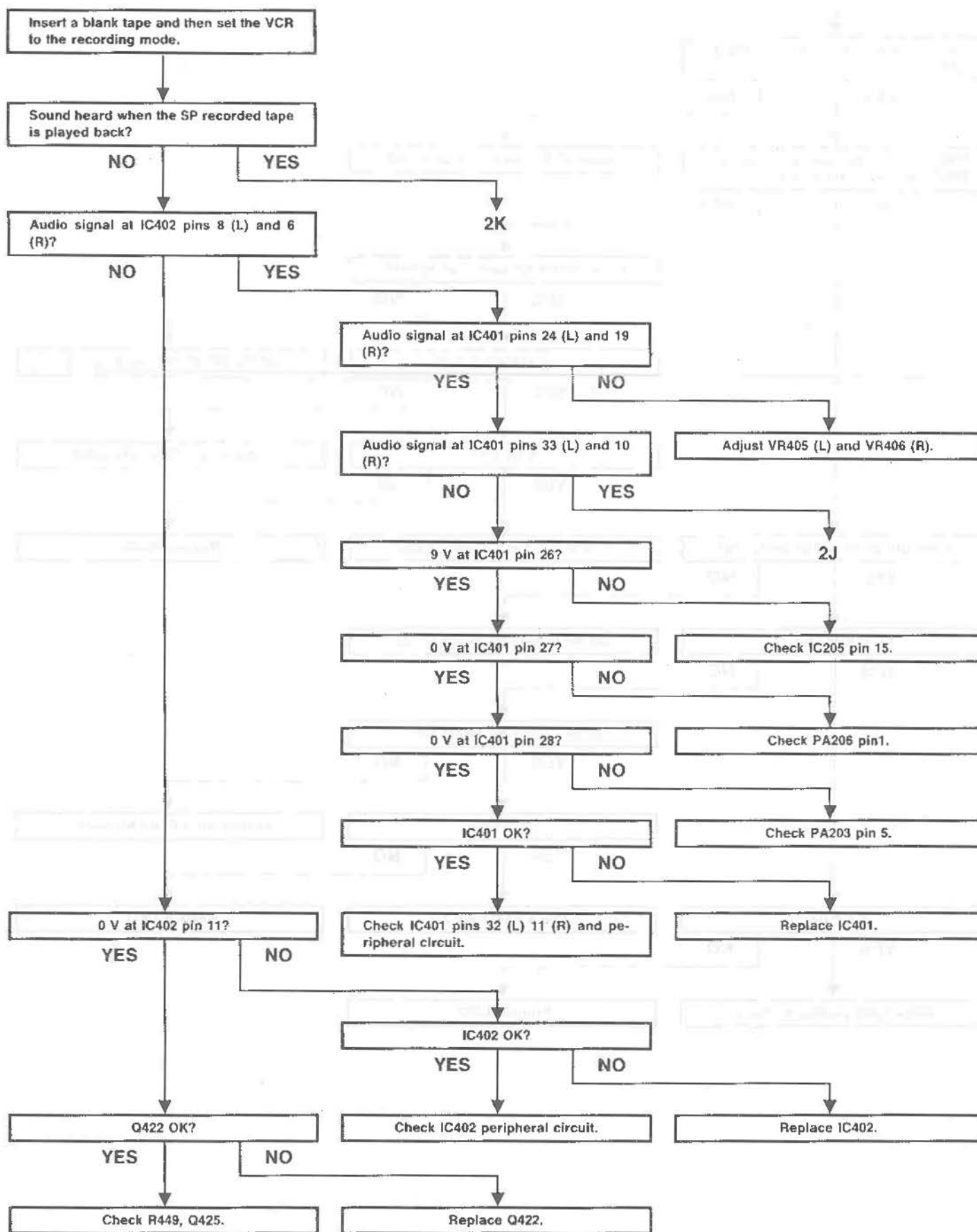


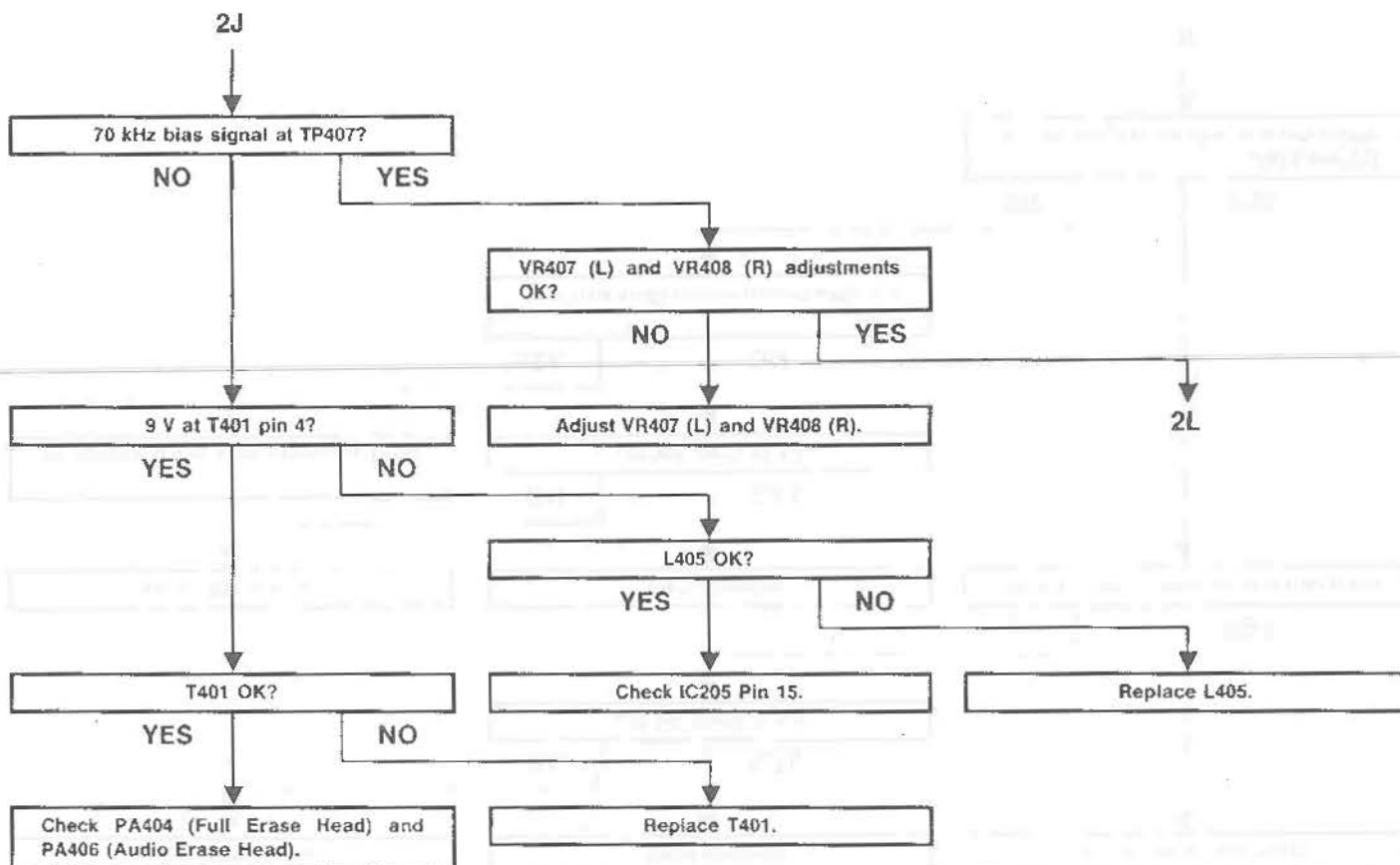


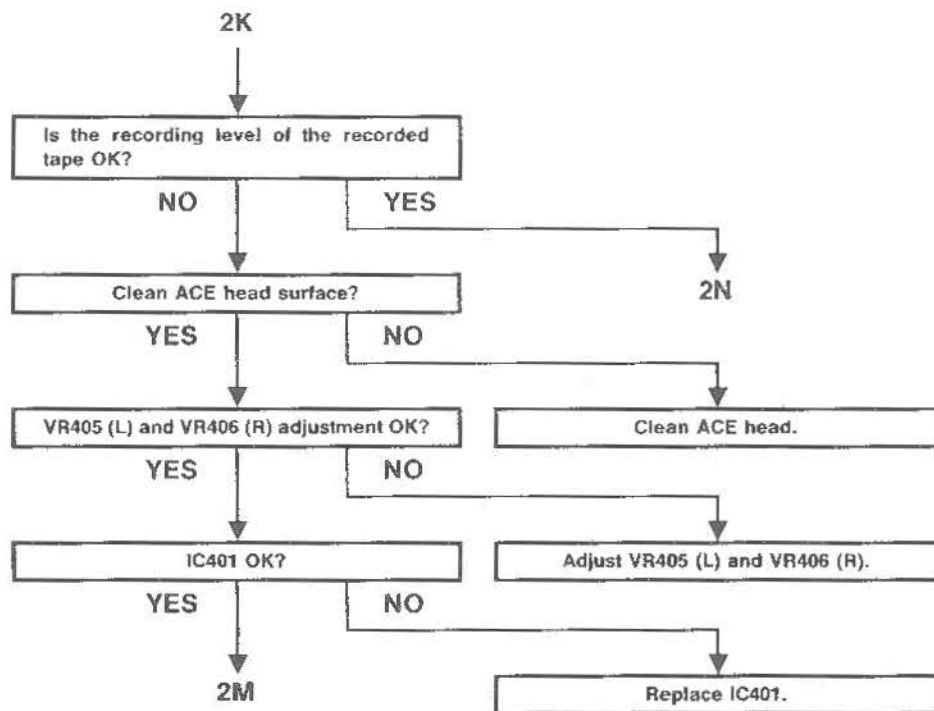
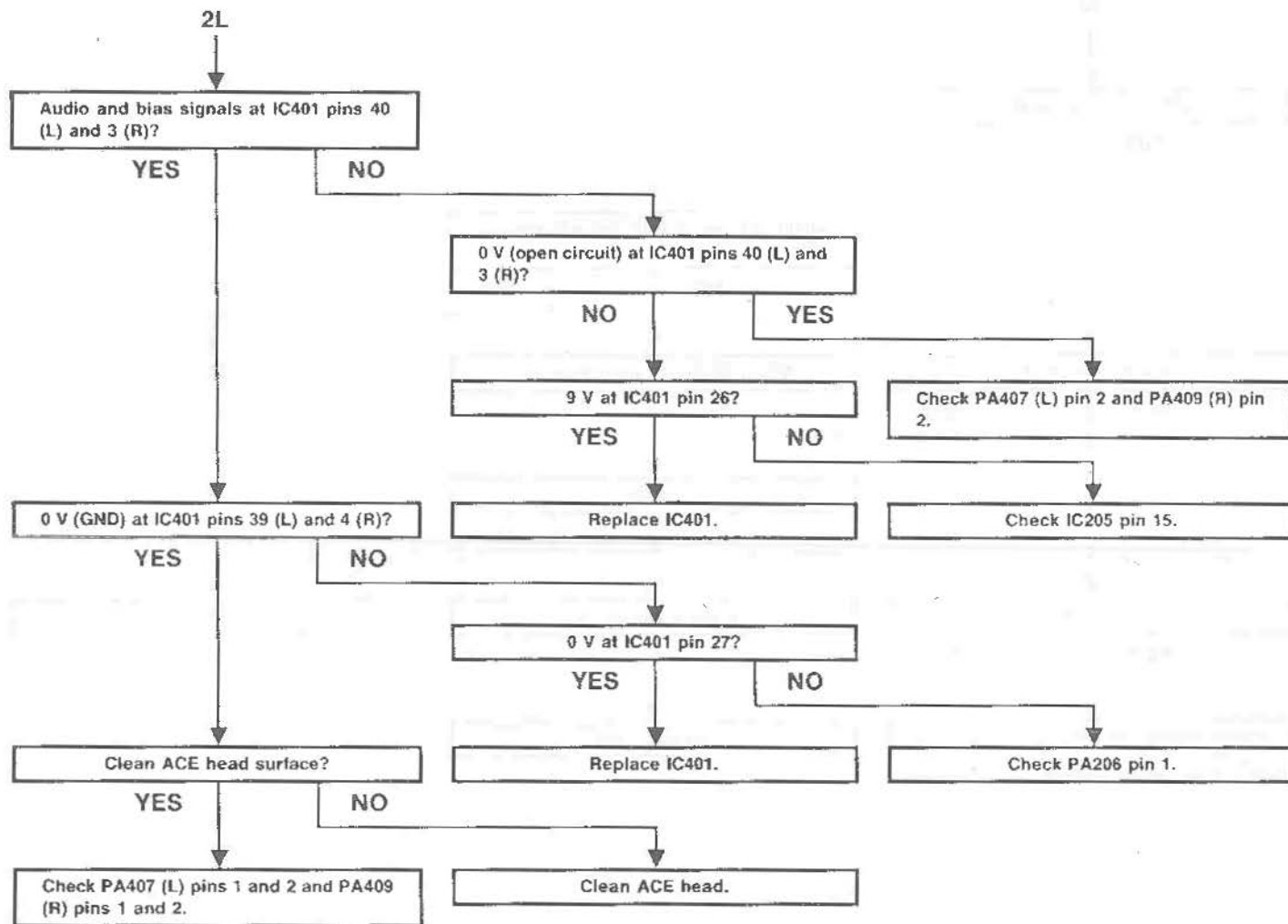


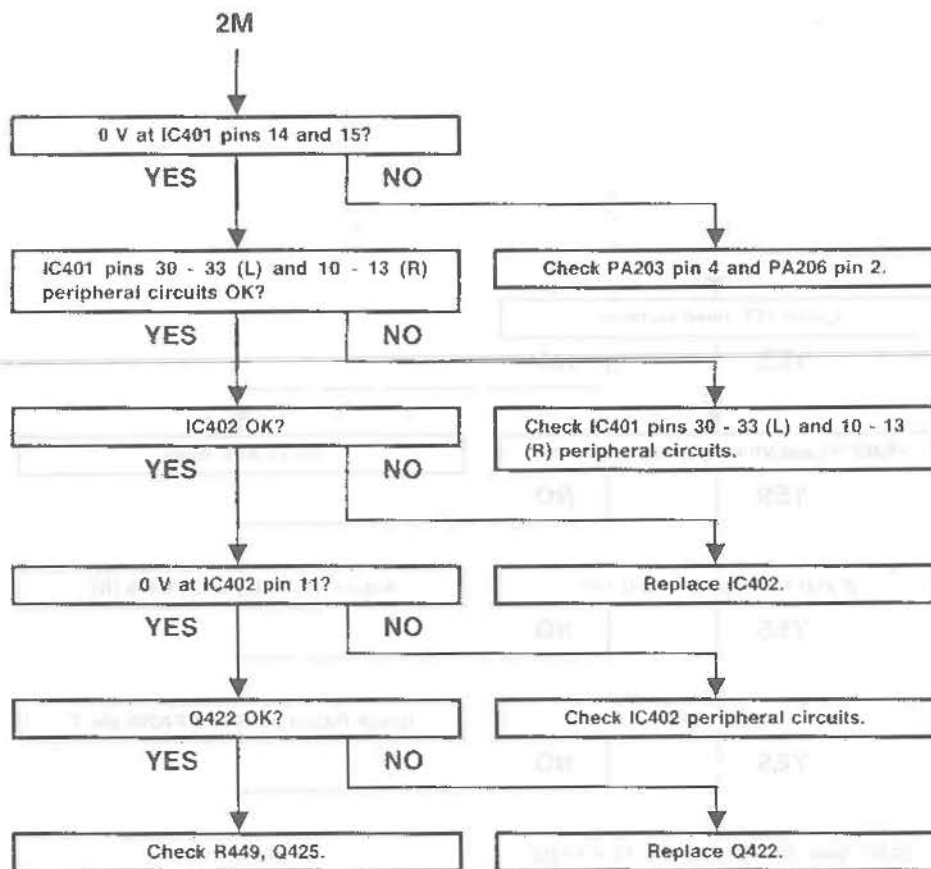


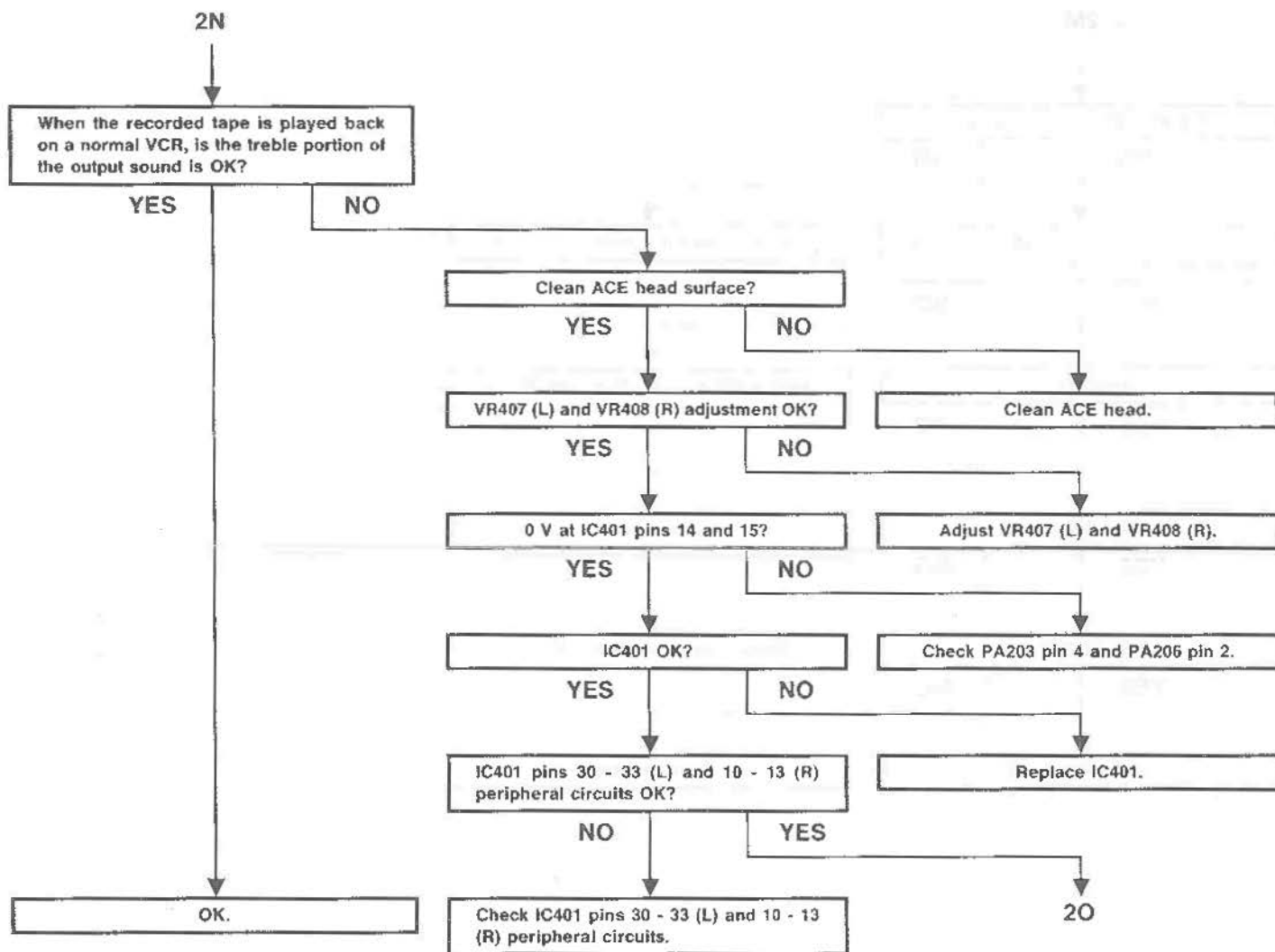
Step 3. RECORDING MODE





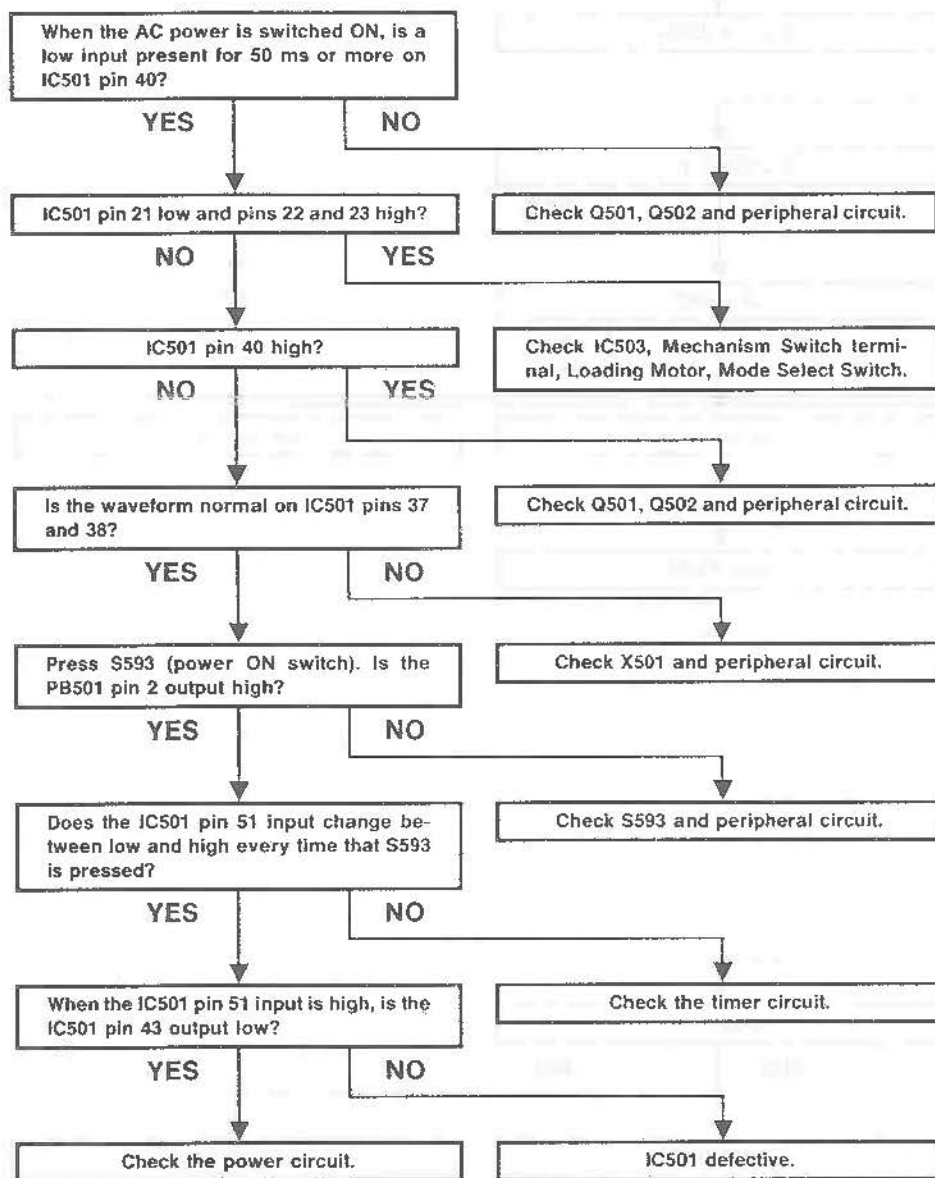




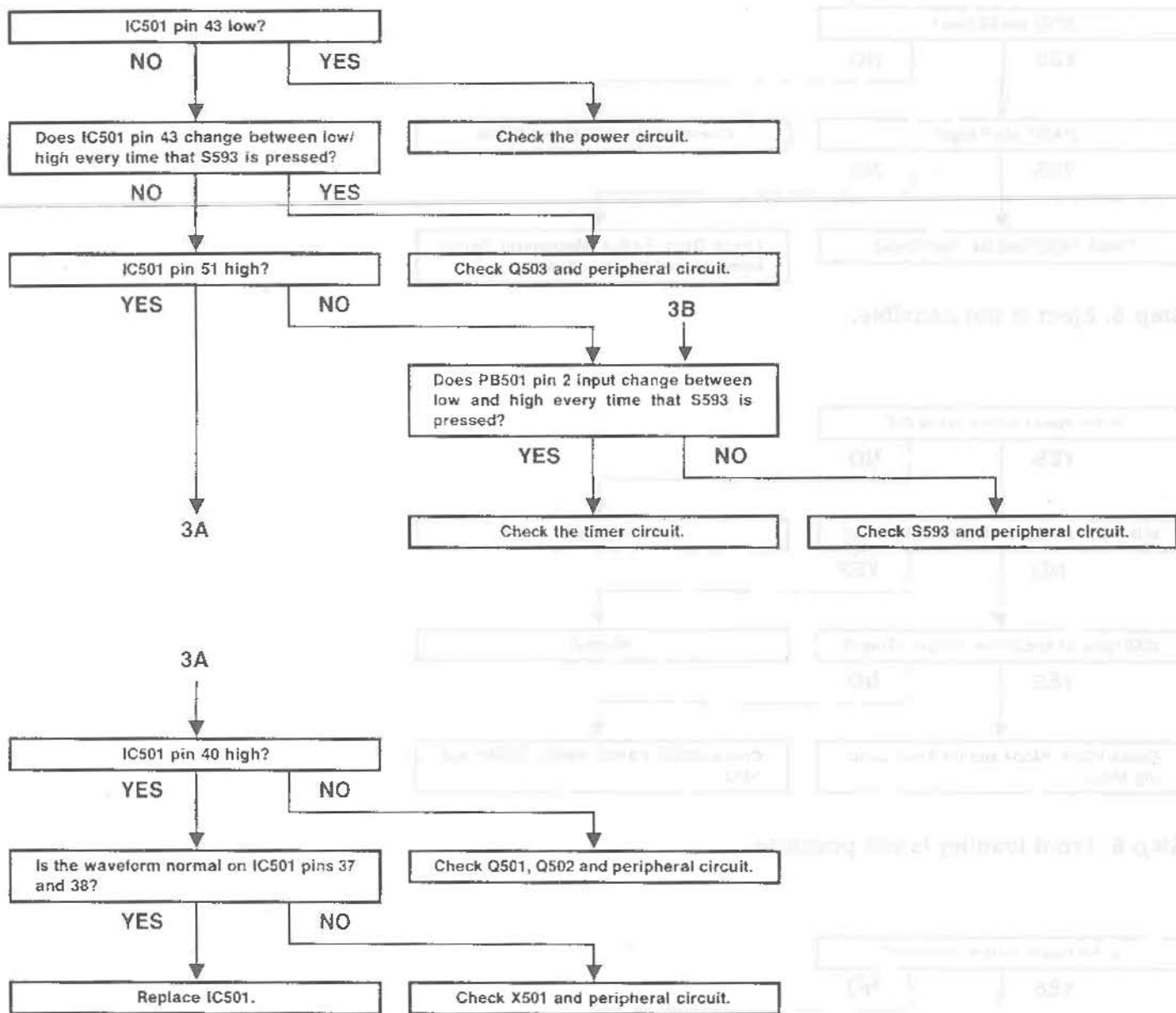


3. SYSTEM CONTROL CIRCUIT

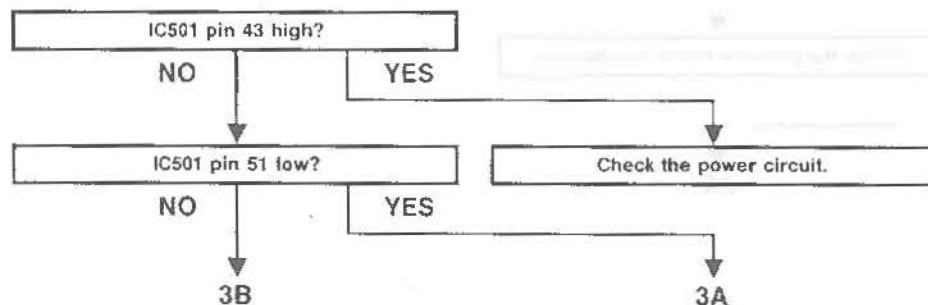
Step 1. The power does not come on after the AC power is switched ON.



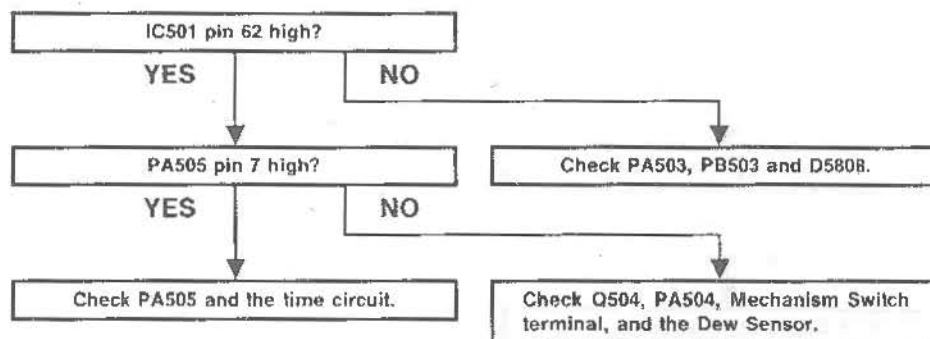
Step 2. Power cannot be switched ON.



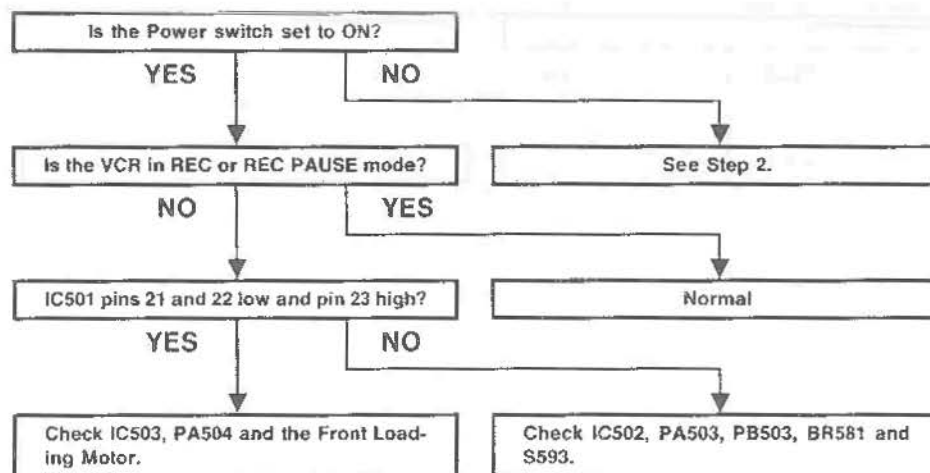
Step 3. Power cannot be switched OFF.



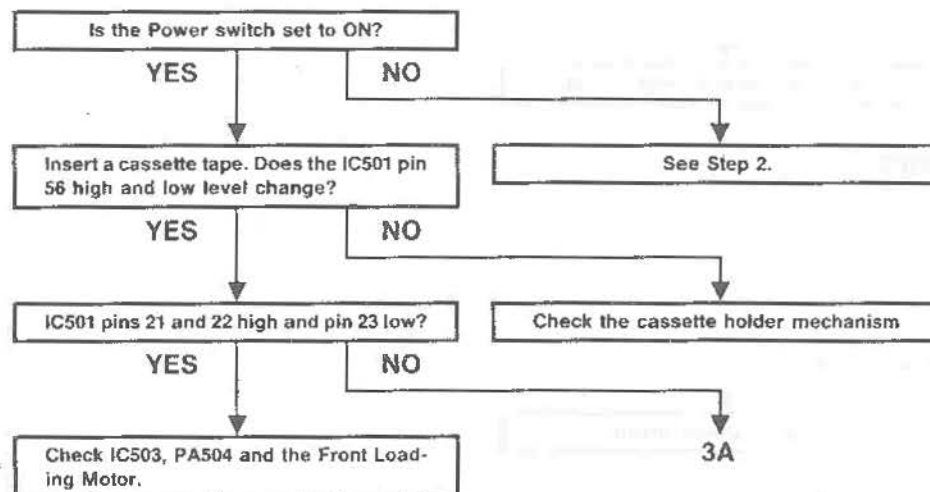
Step 4. Stop LED blinks.



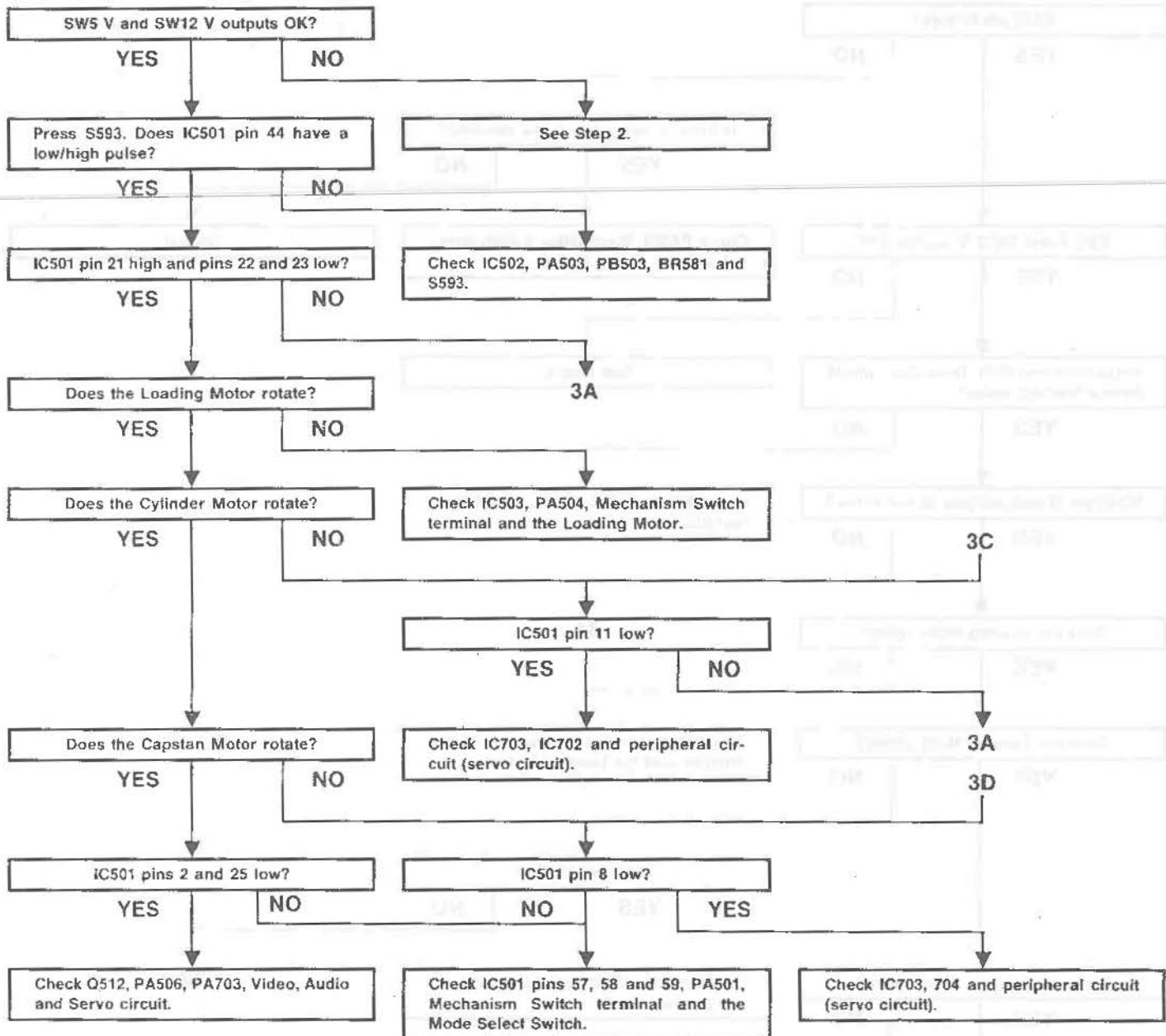
Step 5. Eject is not possible.



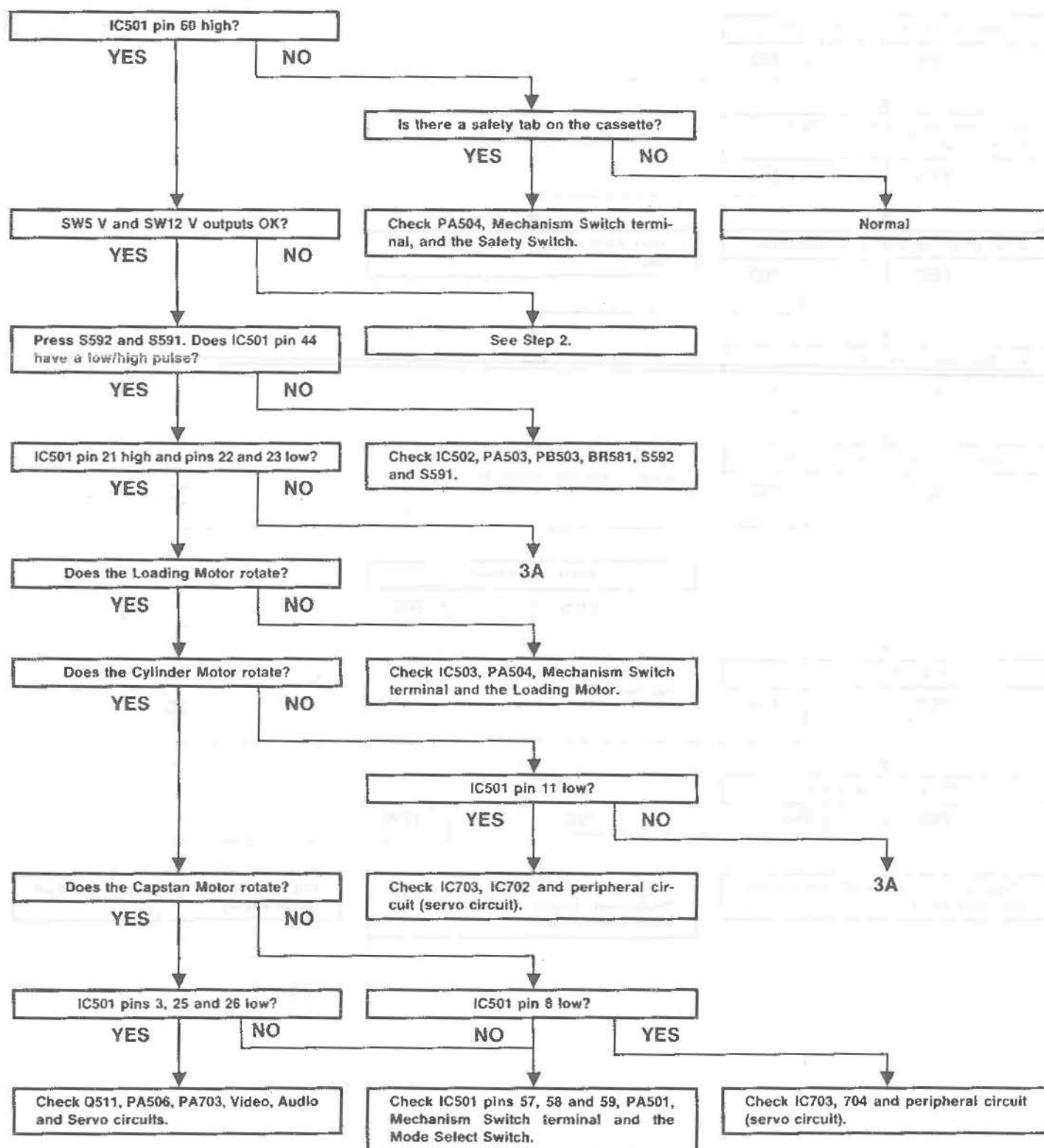
Step 6. Front loading is not possible.



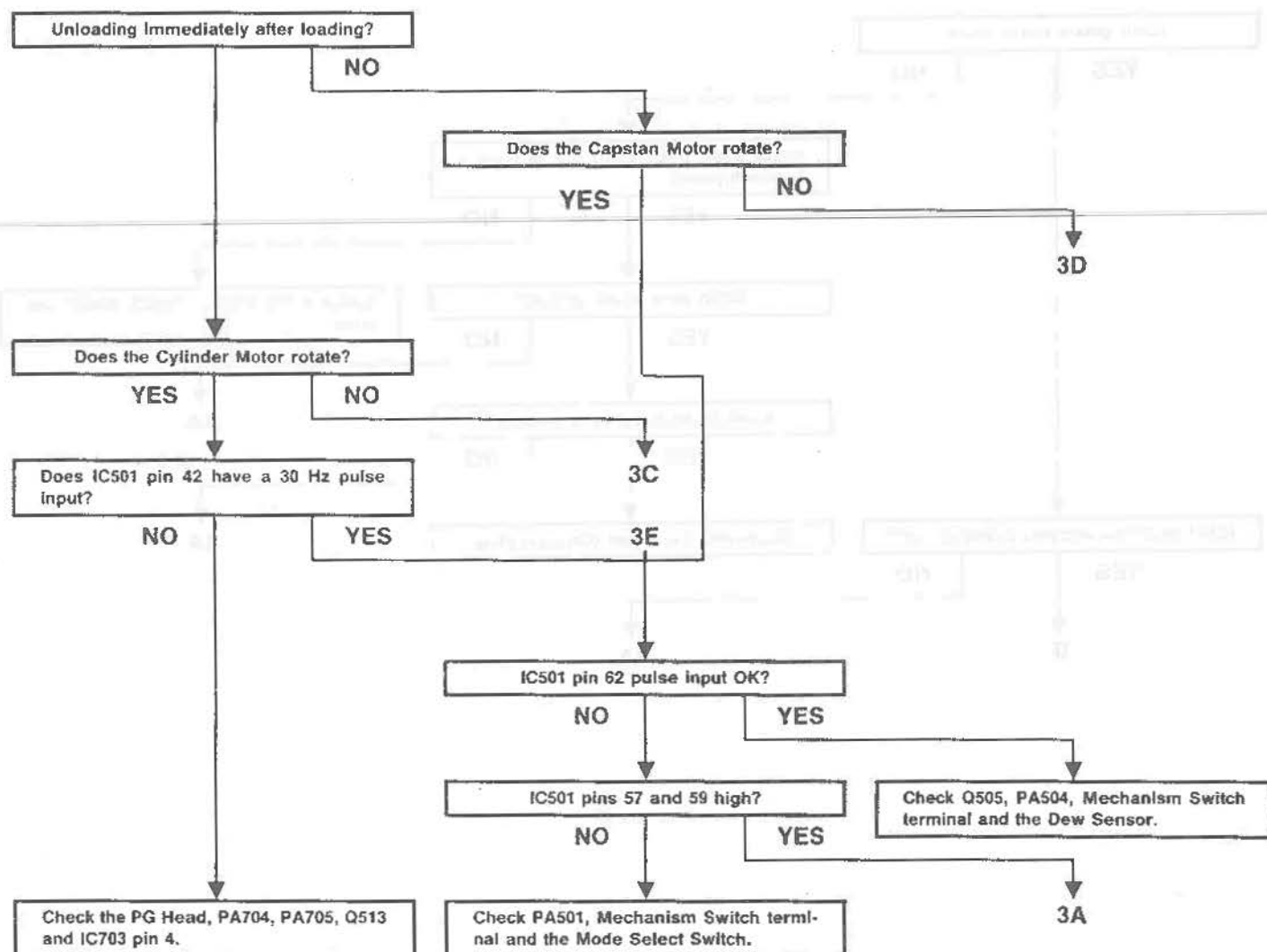
Step 7. Playback is not possible.



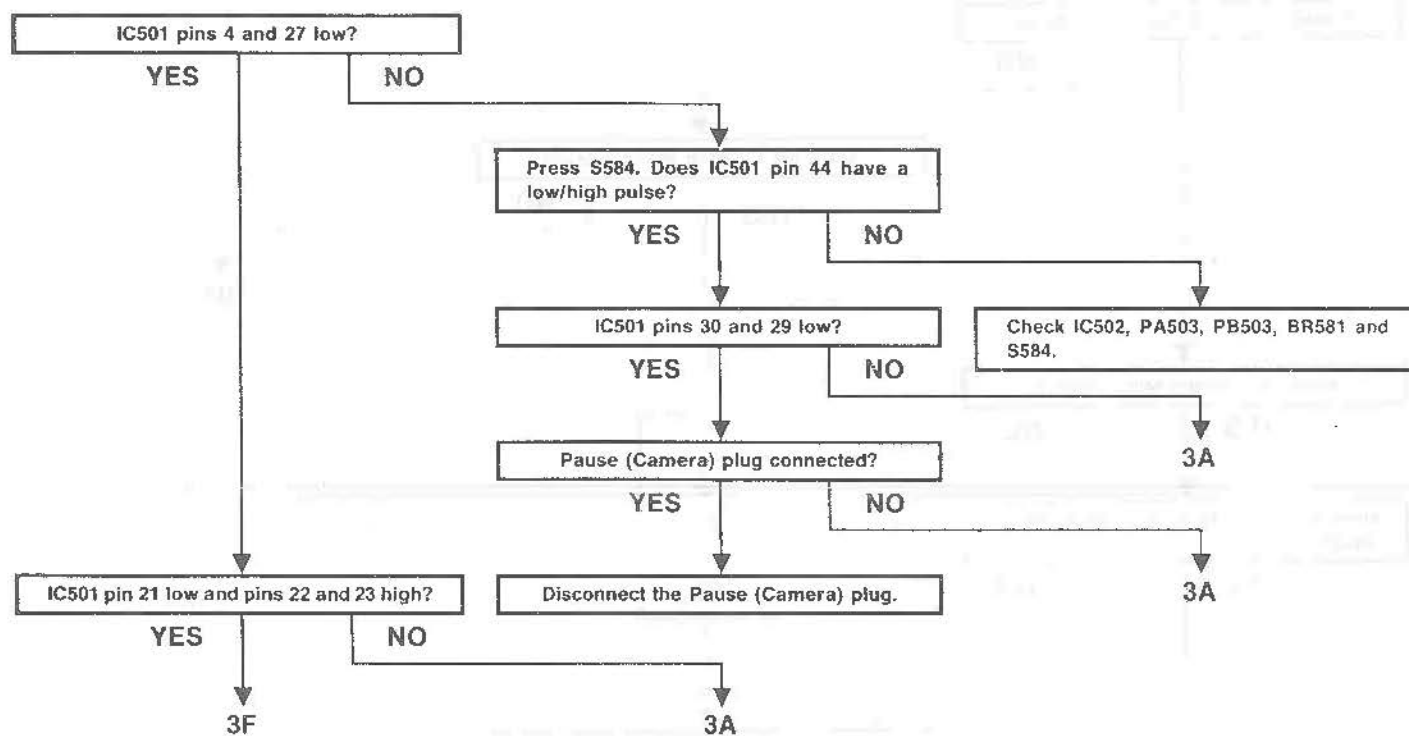
Step 8. Recording is not possible.

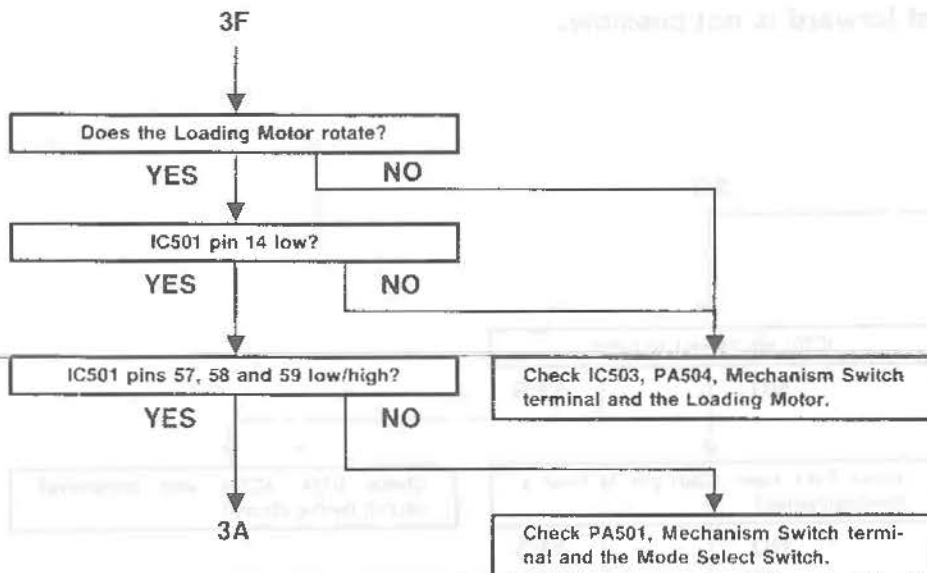


Step 9. After Loading, during playback or recording, the VCR is unloaded immediately.

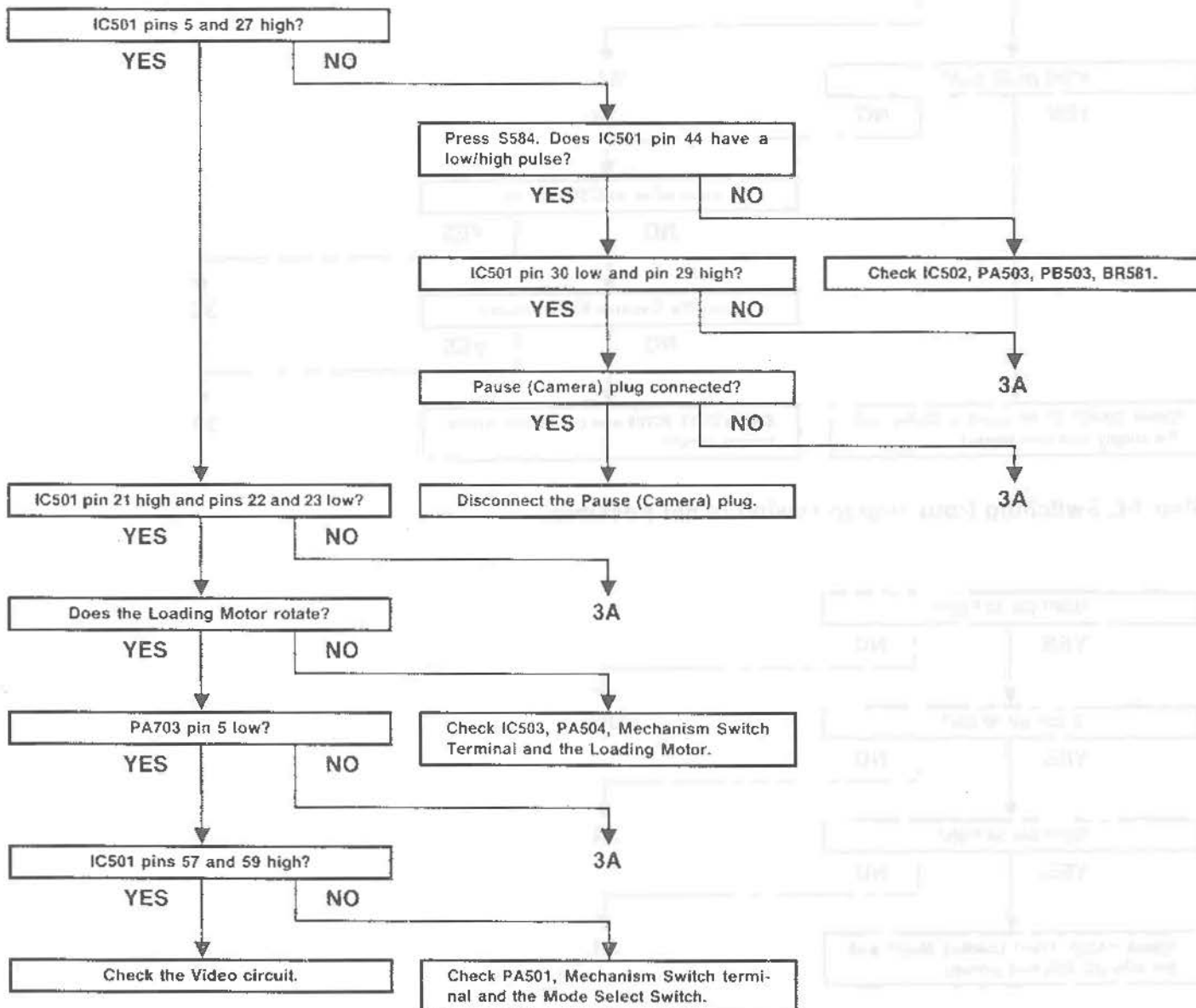


Step 10. Switching from recording to recording pause is not possible.

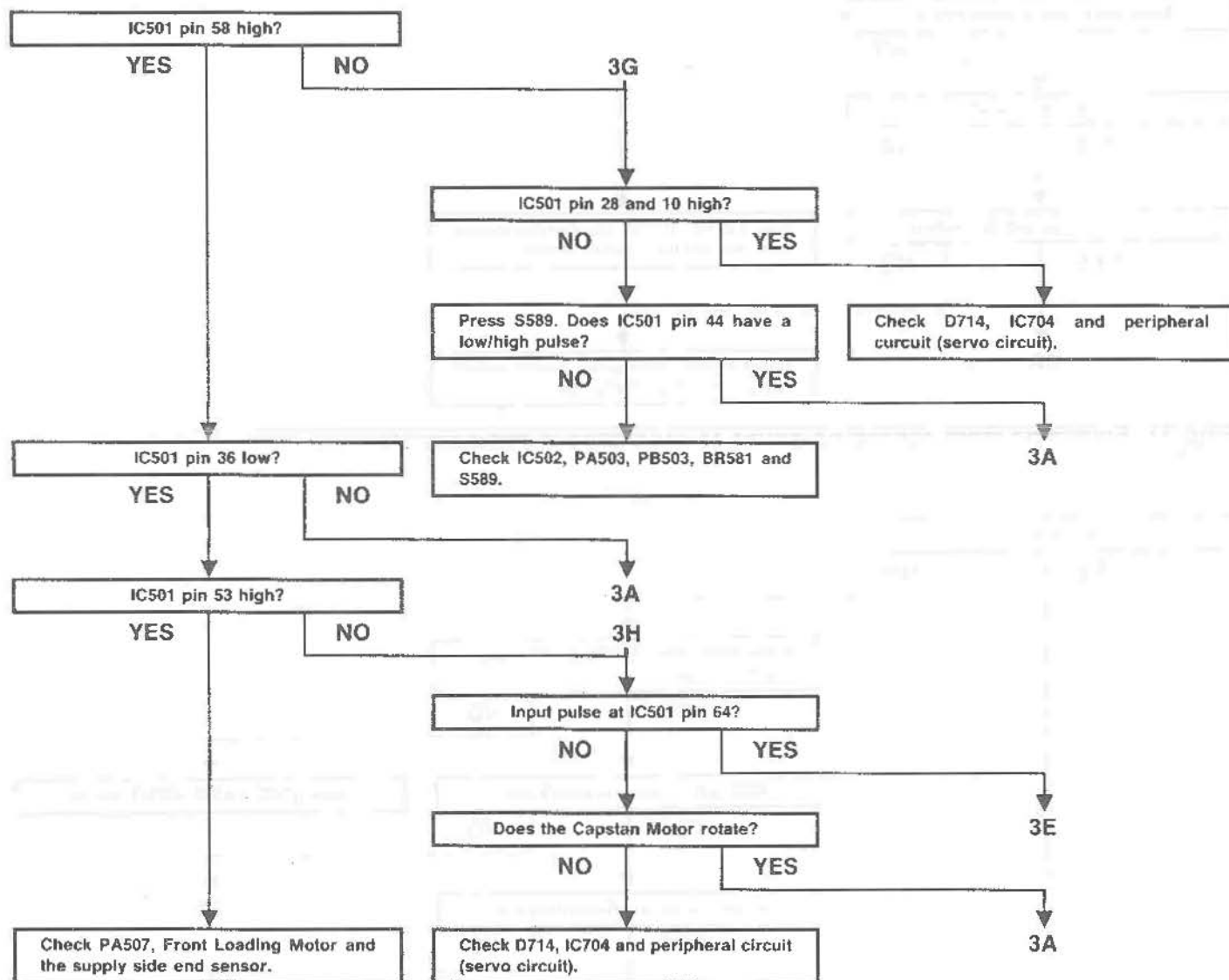




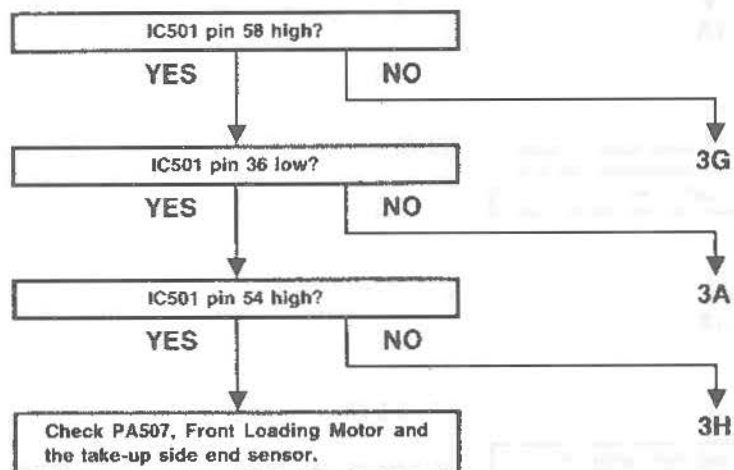
Step 11. Switching from recording pause to recording is not possible.



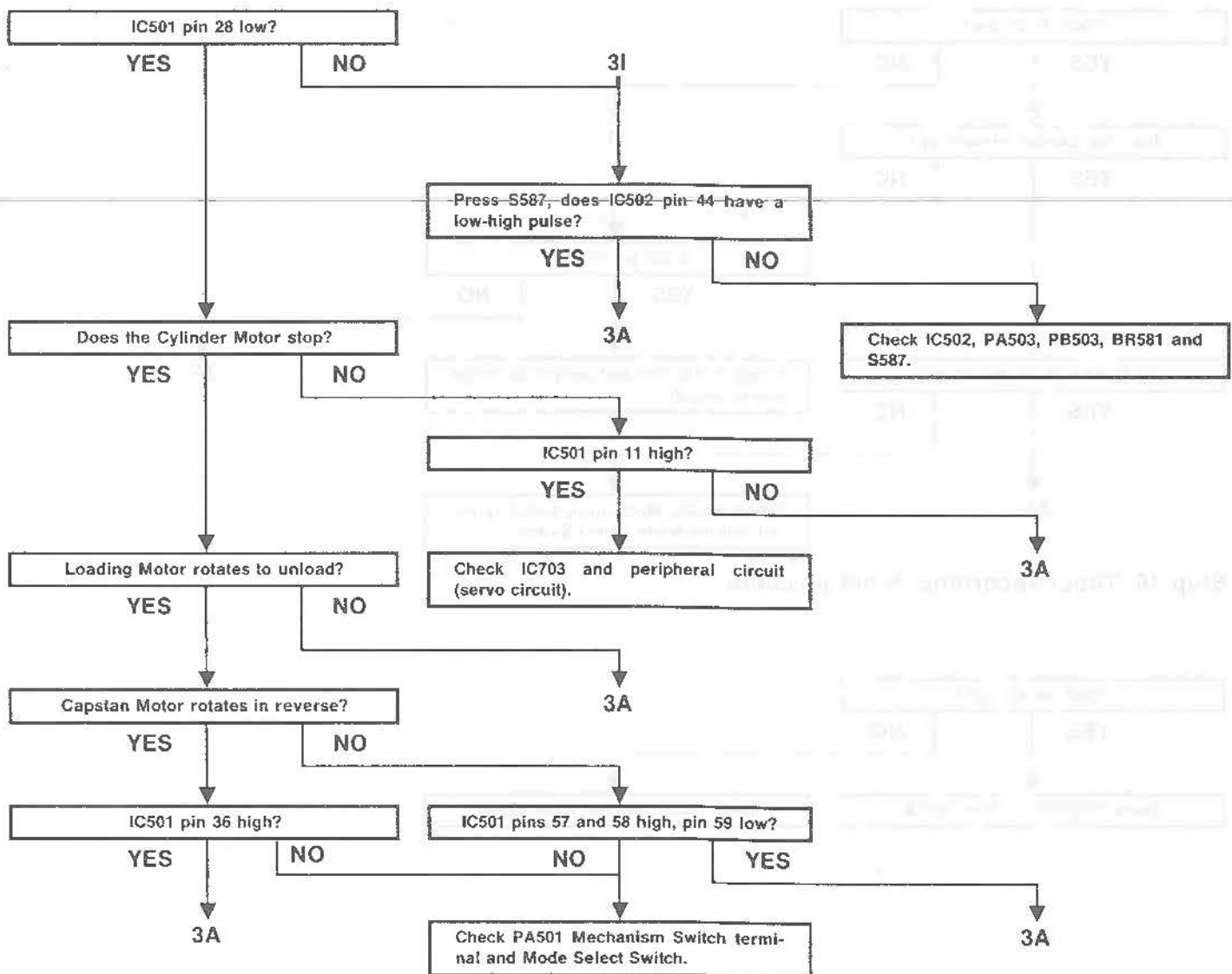
Step 12. Switching from stop to fast forward is not possible.



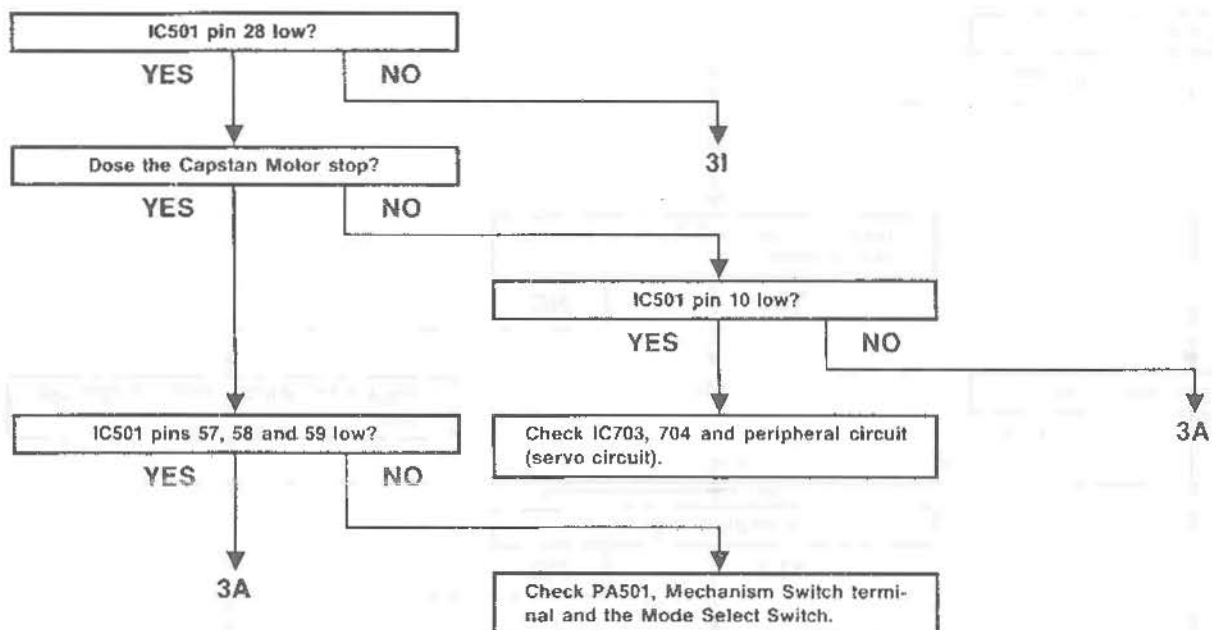
Step 13. Switching from stop to rewind is not possible.



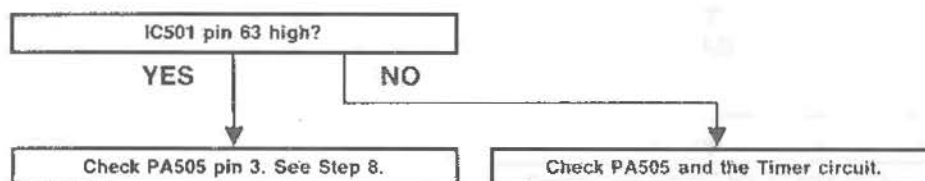
Step 14. Switching from playback or recording etc. (loading mode) to stop is not possible.



Step 15. Switching from fast forward to stop is not possible.

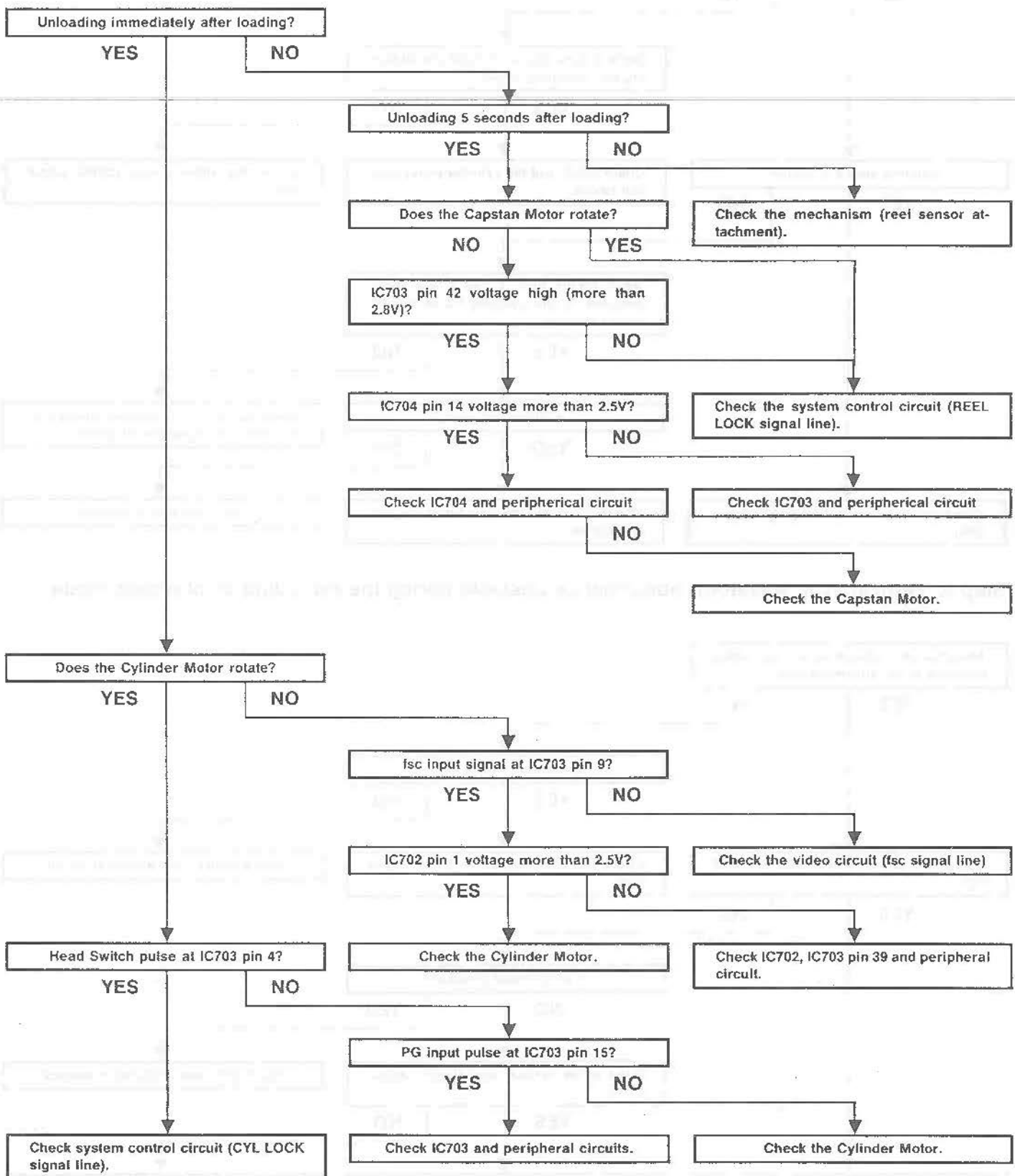


Step 16. Timer recording is not possible.

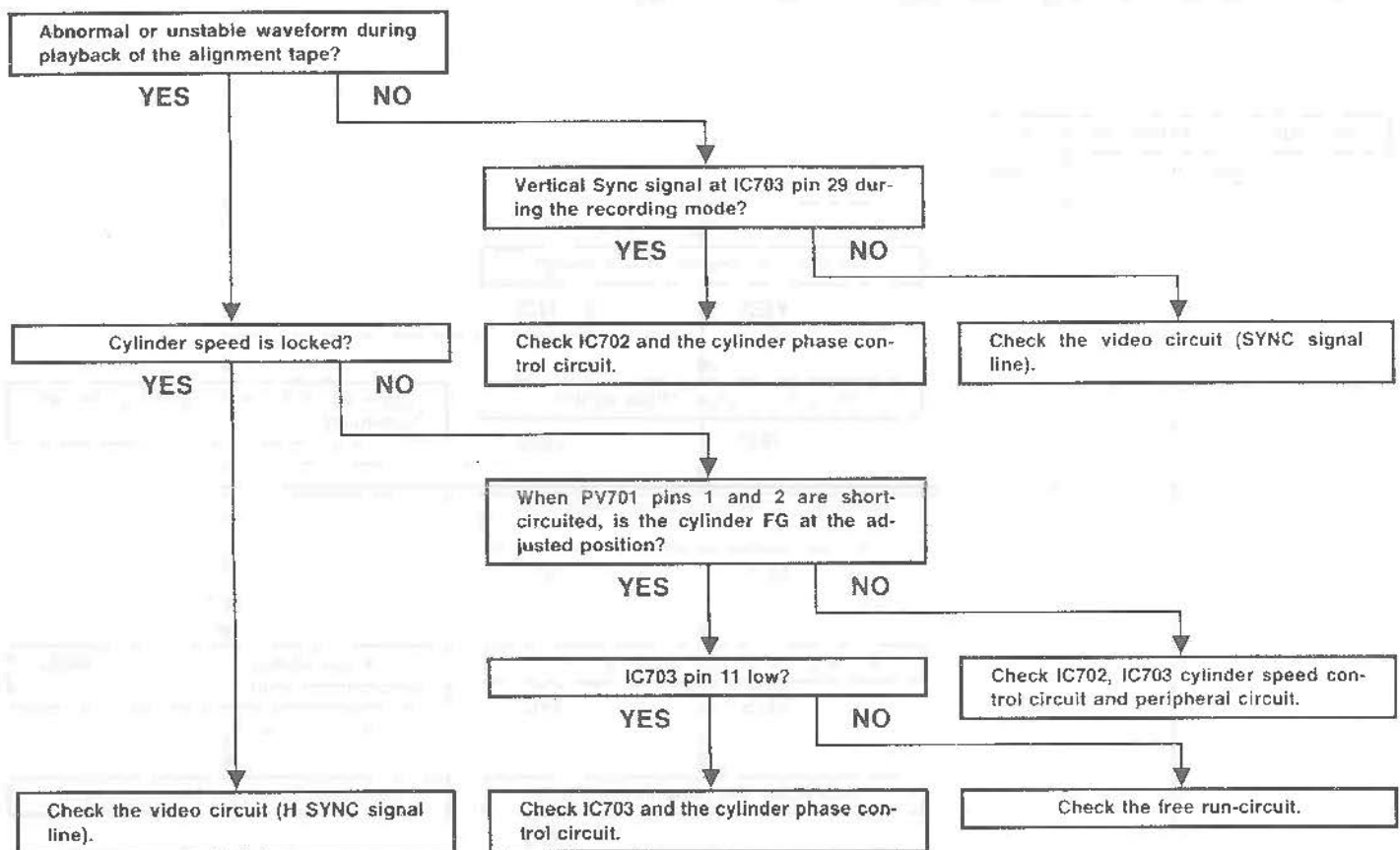


4. SERVO CIRCUIT

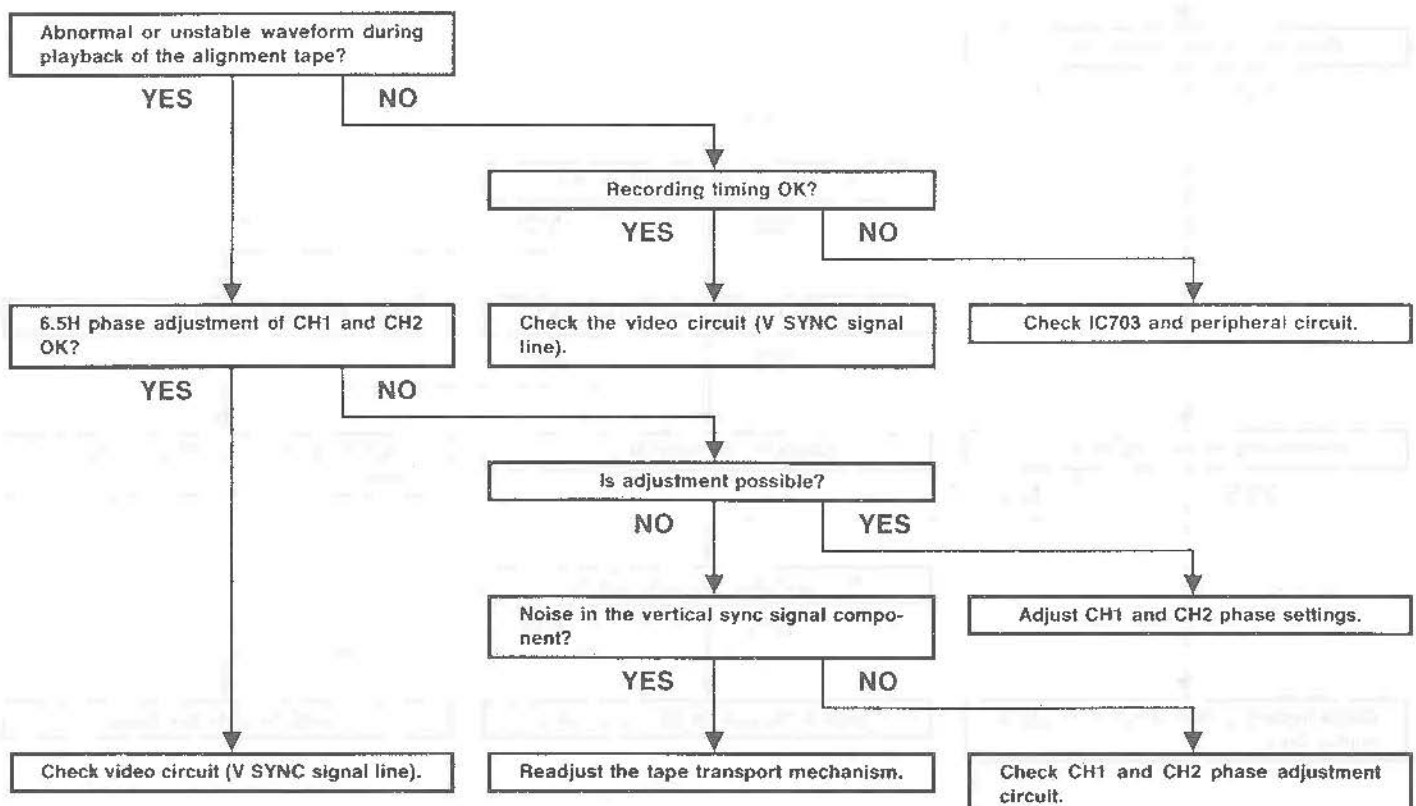
Step 1. Unloading during recording or playback mode.



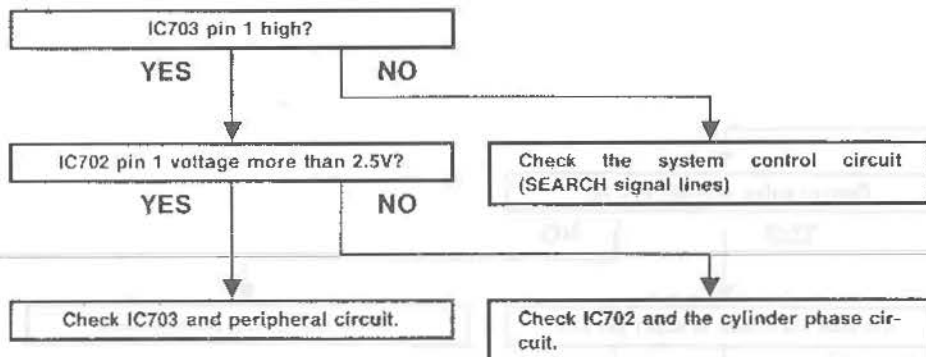
Step 2. Horizontal sync waveform abnormal or unstable during the recording or playback mode.



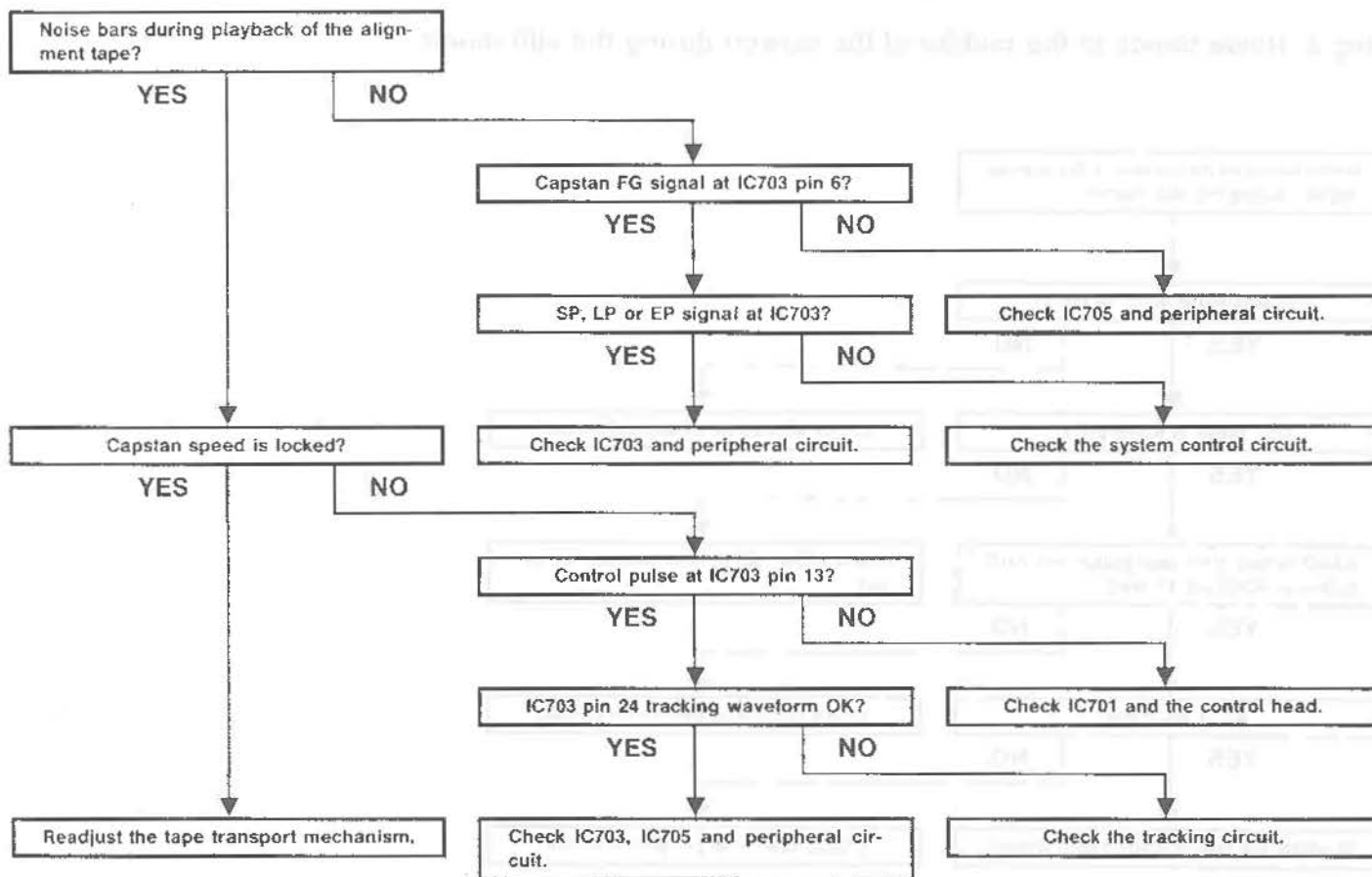
Step 3. Vertical sync waveform abnormal or unstable during the recording or playback mode.



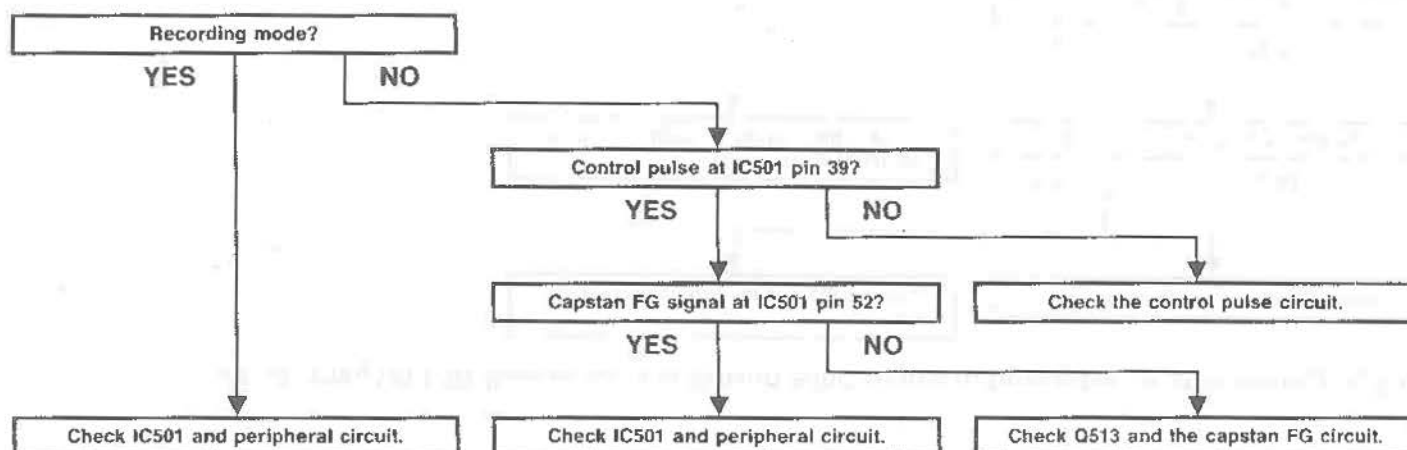
Step 4. Horizontal sync waveform abnormal during the cue or review mode.



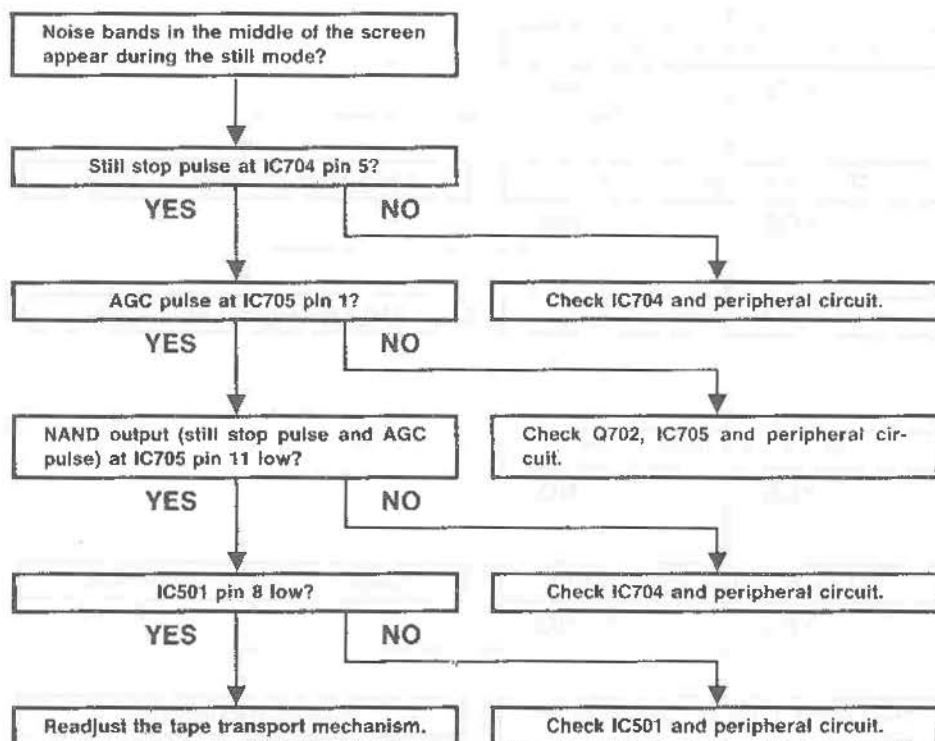
Step 5. Continuous or intermittent noise bars during the recording or playback mode.



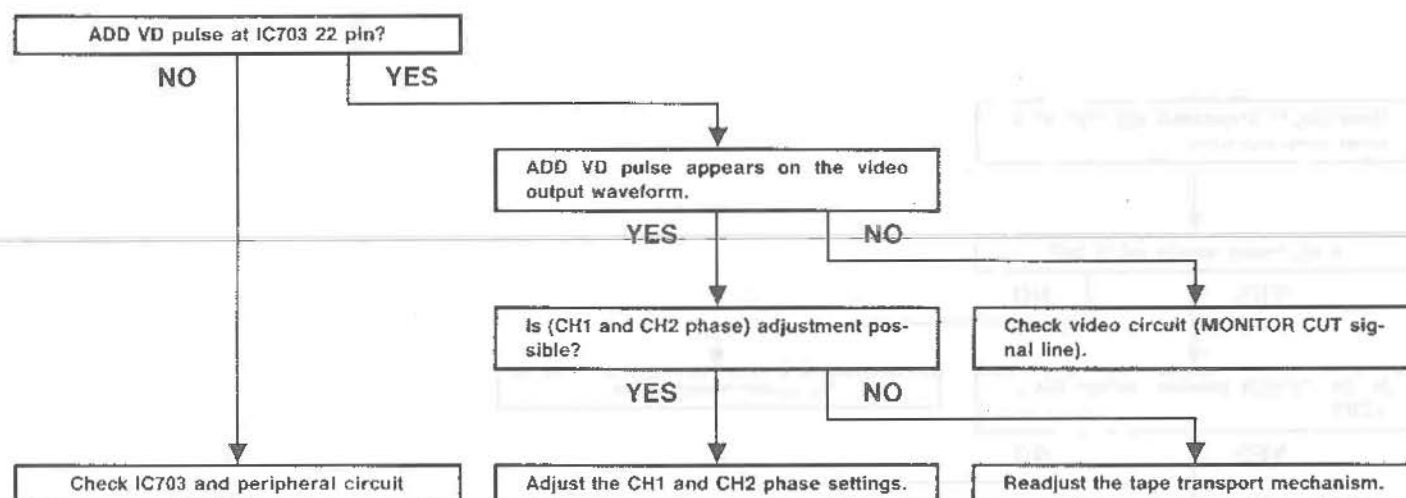
Step 6. Switching between SP/LP is not possible.



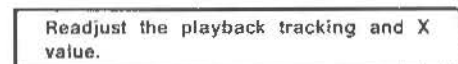
Step 7. Noise bands in the middle of the screen during the still mode.



Step 8. Picture shakes during special playback.

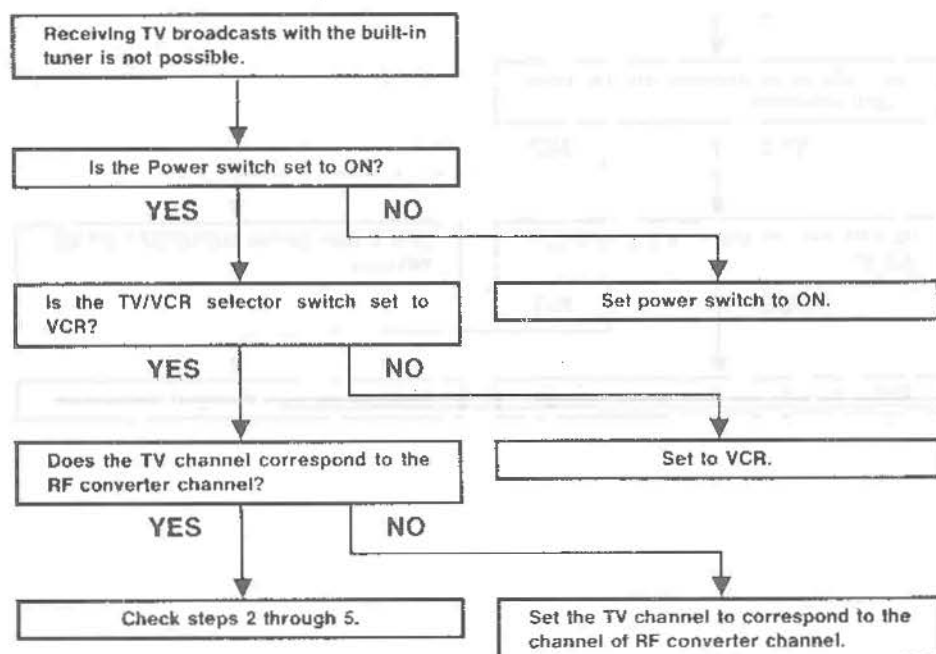


Step 9. No tracking.

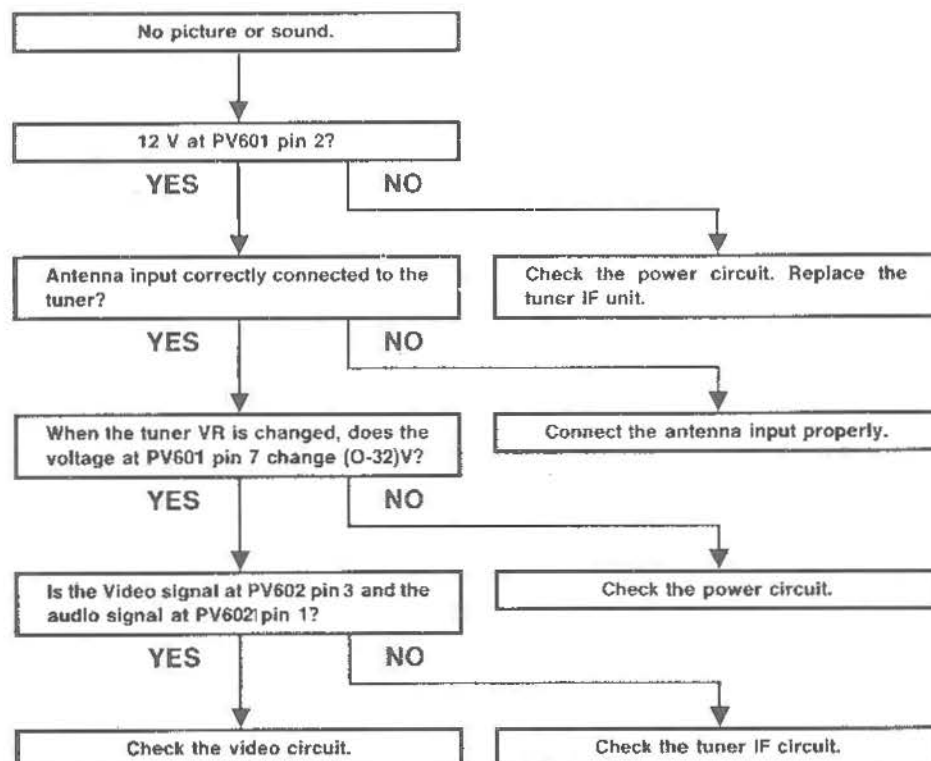


5. TUNER CIRCUIT

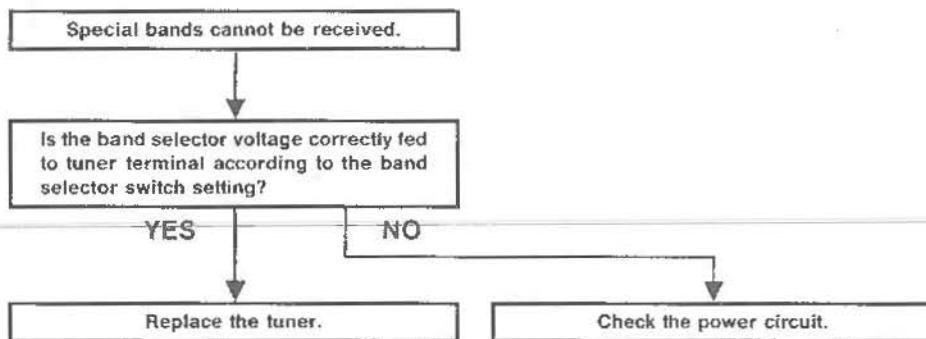
Step 1. Receiving TV broadcasts with the built-in tuner is not possible.



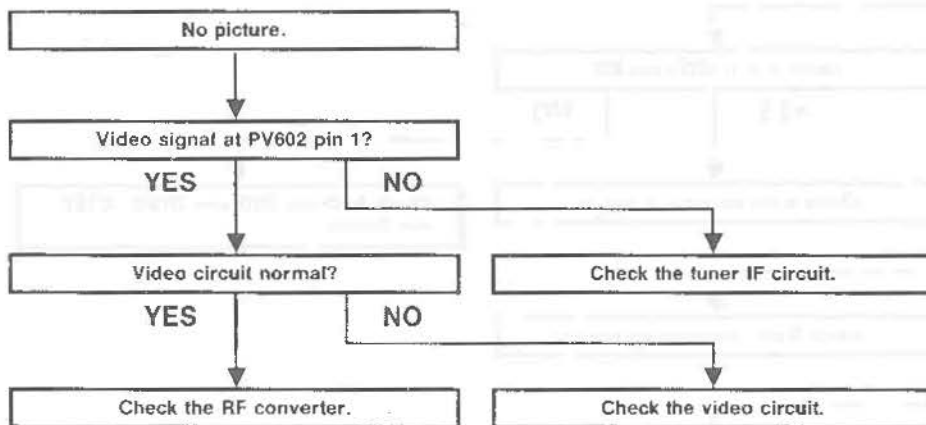
Step 2. No picture or sound.



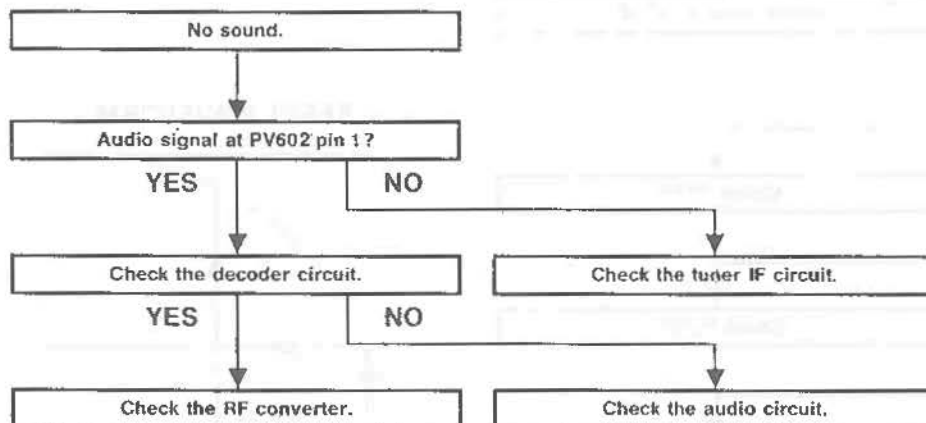
Step 3. TV band selector does not operate.



Step 4. No picture.

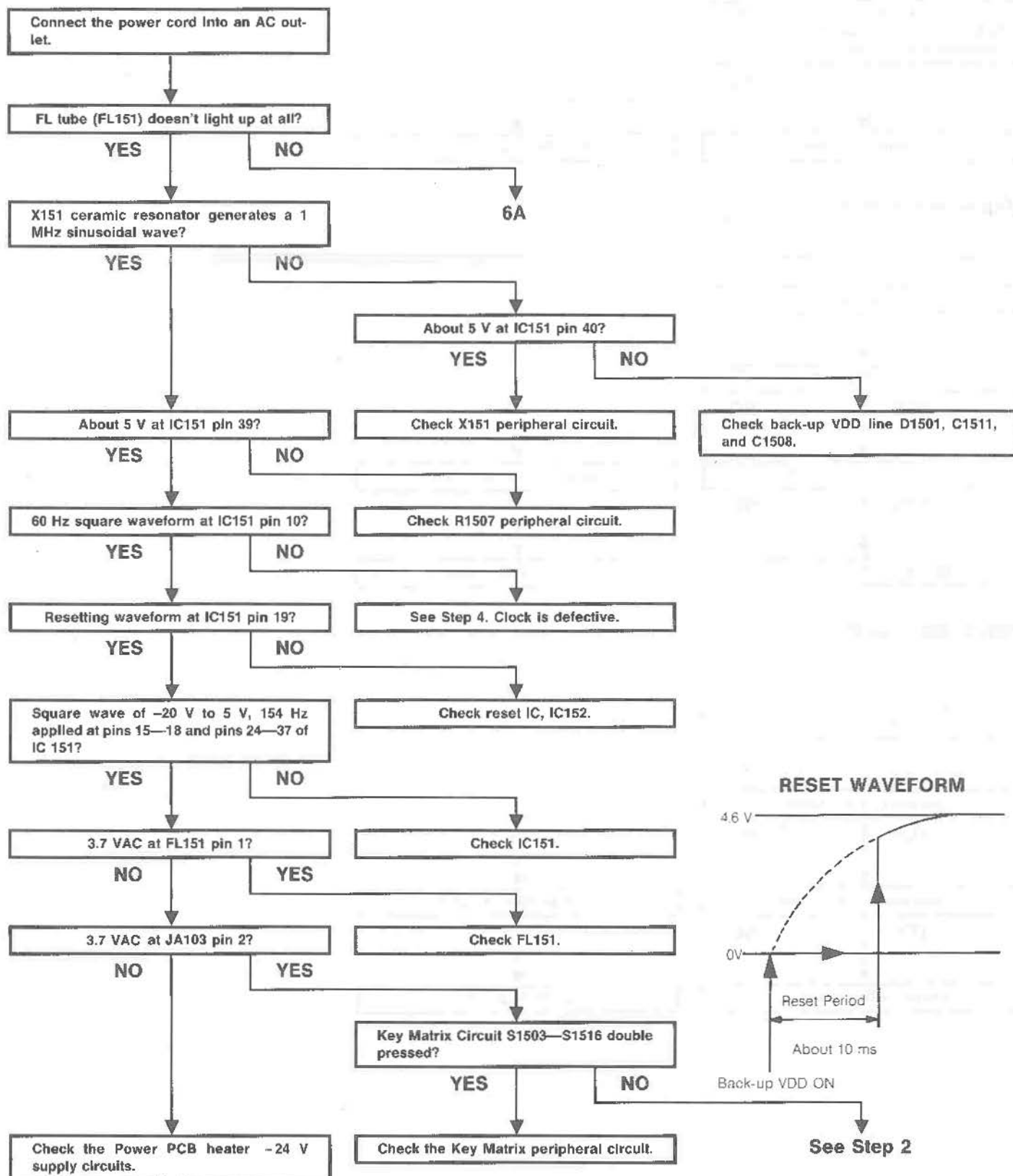


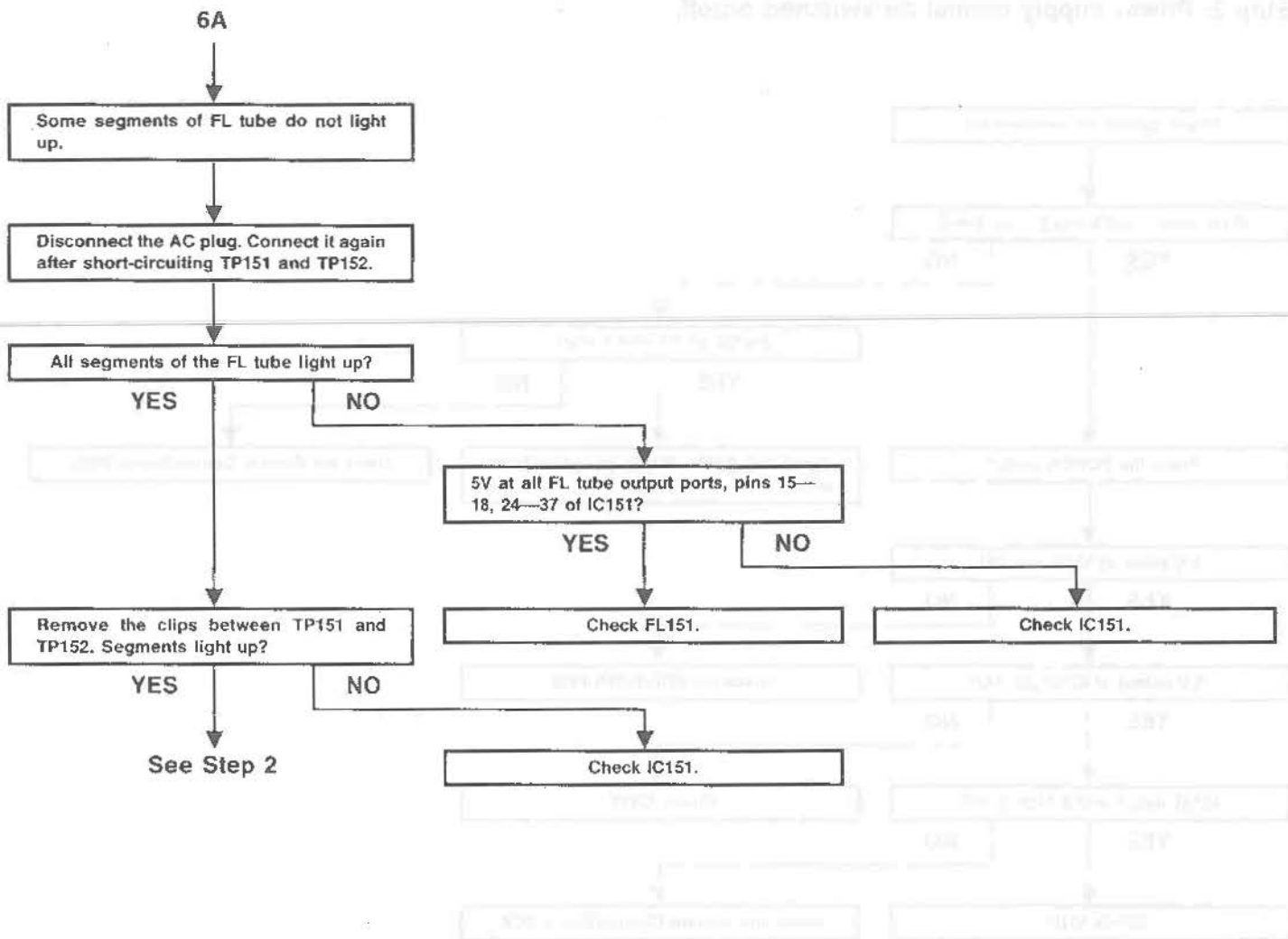
Step 5. No sound.



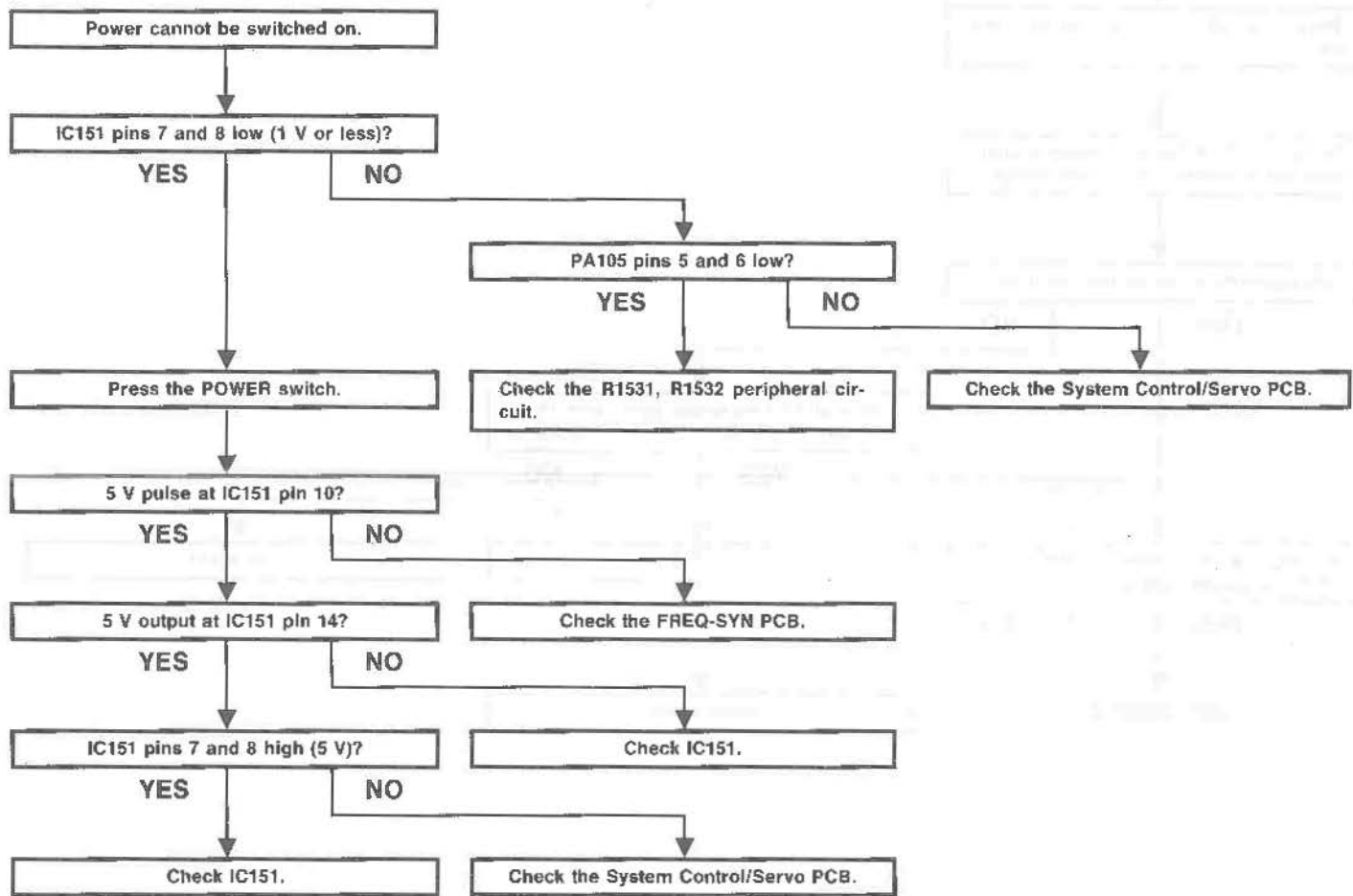
6. TIMER, PRE-SETTING AND REMOTE CONTROL CIRCUIT

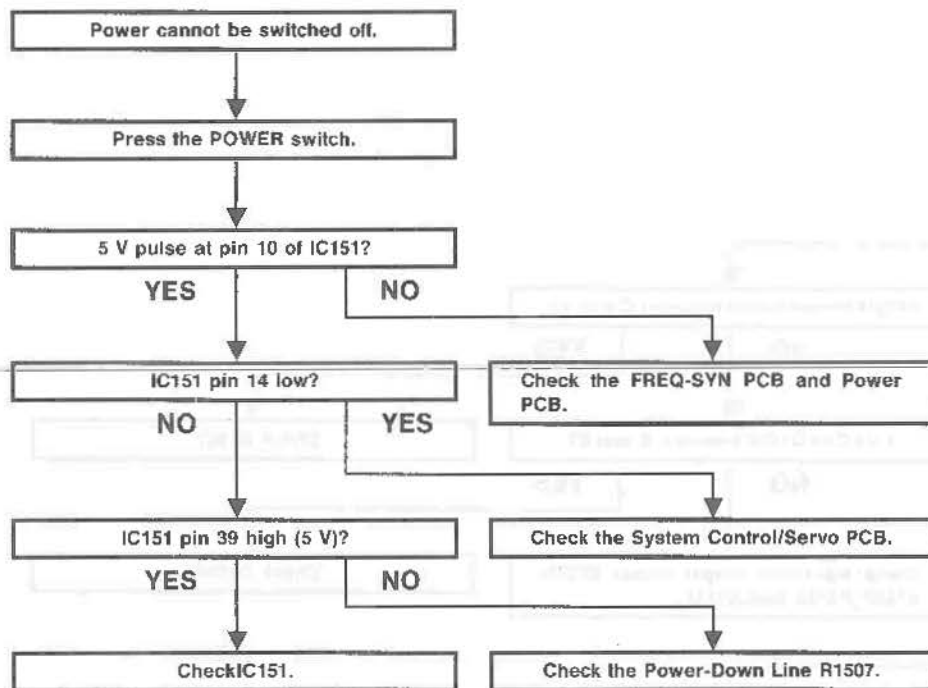
Step 1. FL display tube is defective.



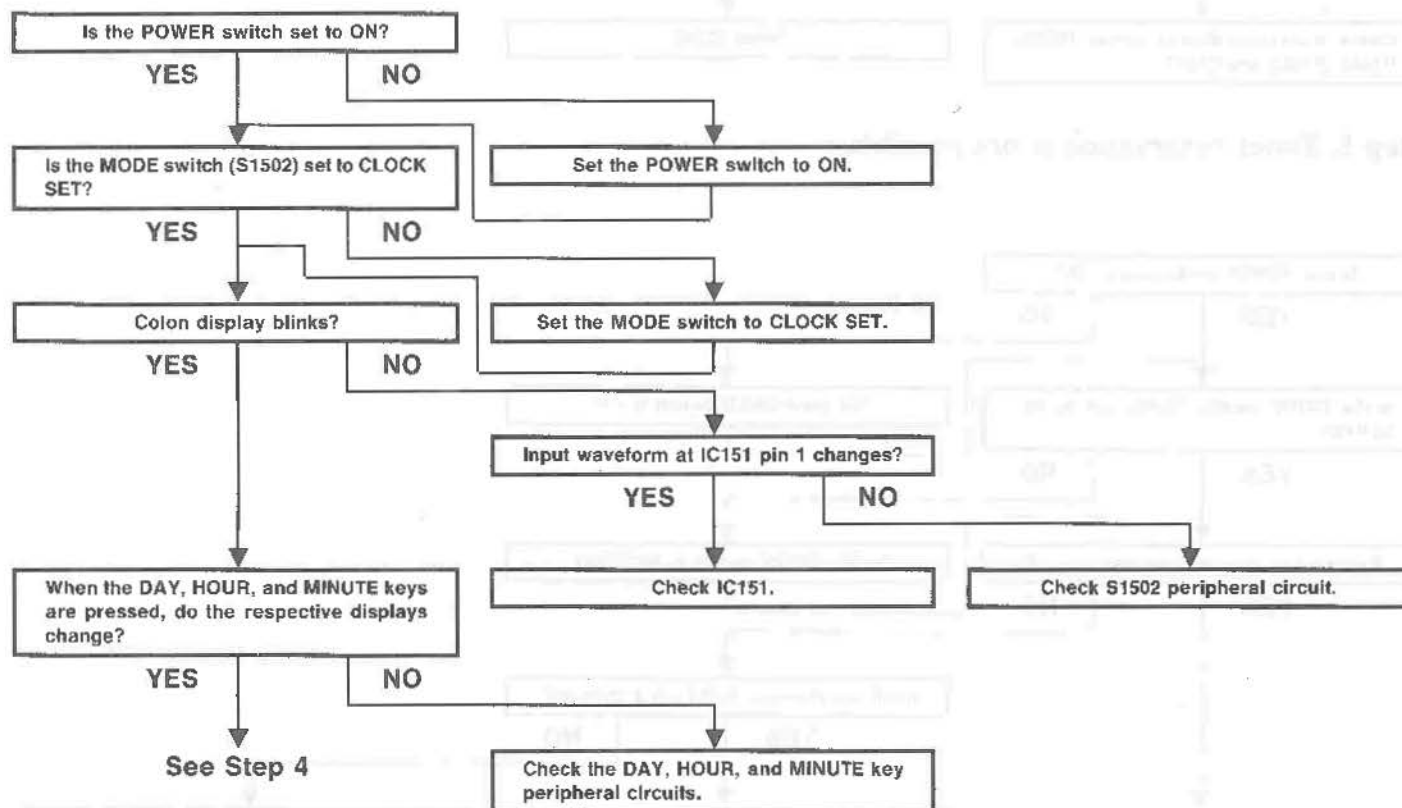


Step 2. Power supply cannot be switched on/off.

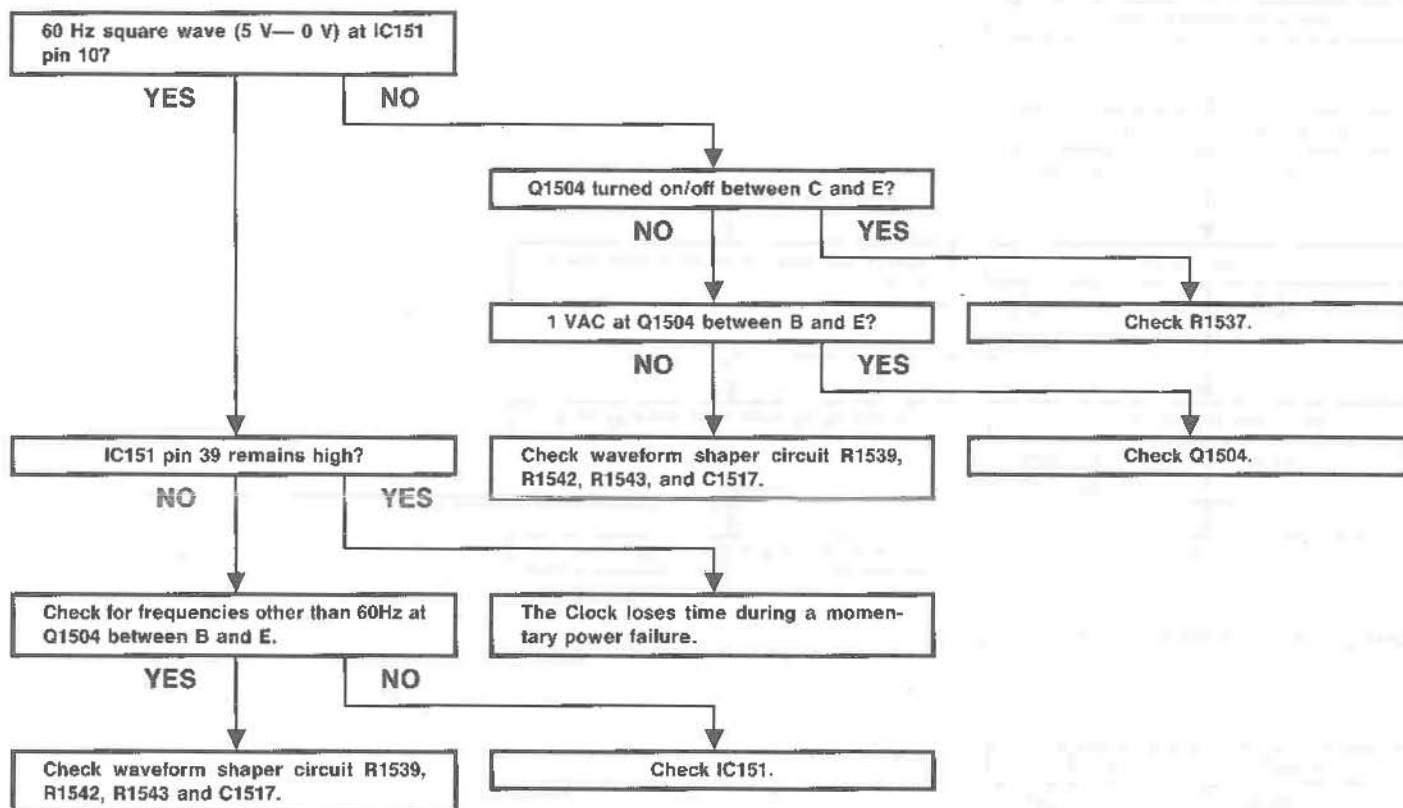




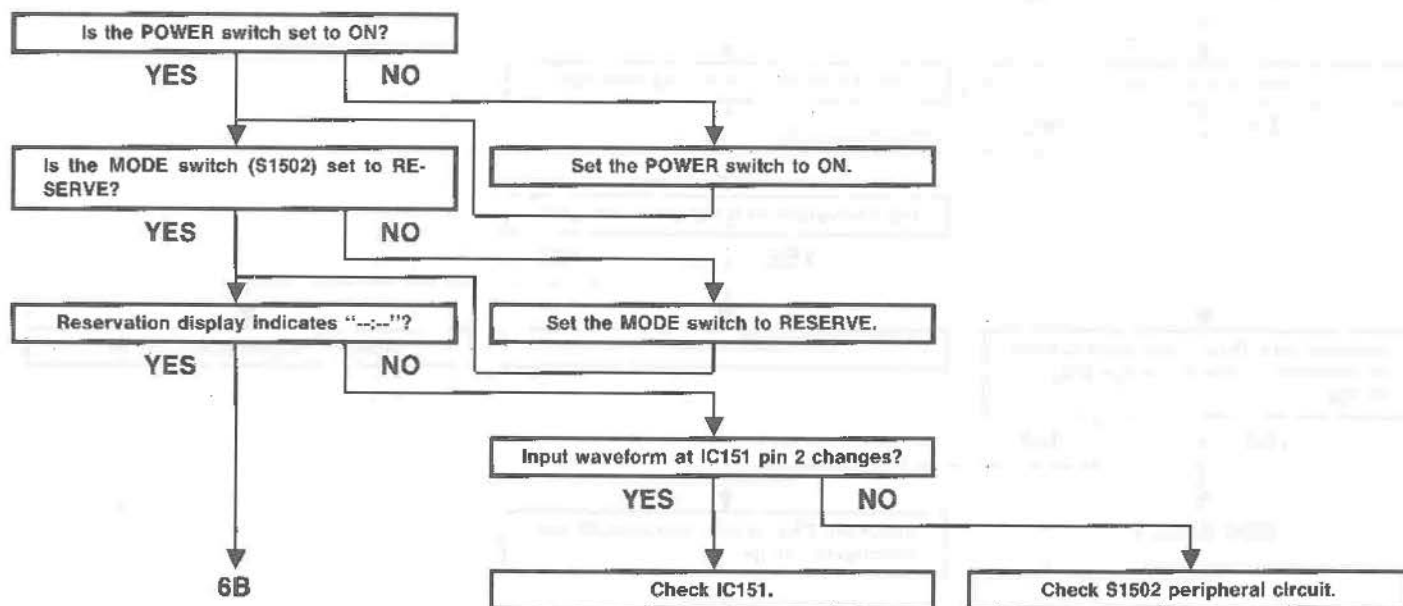
Step 3. Clock setting is not possible.

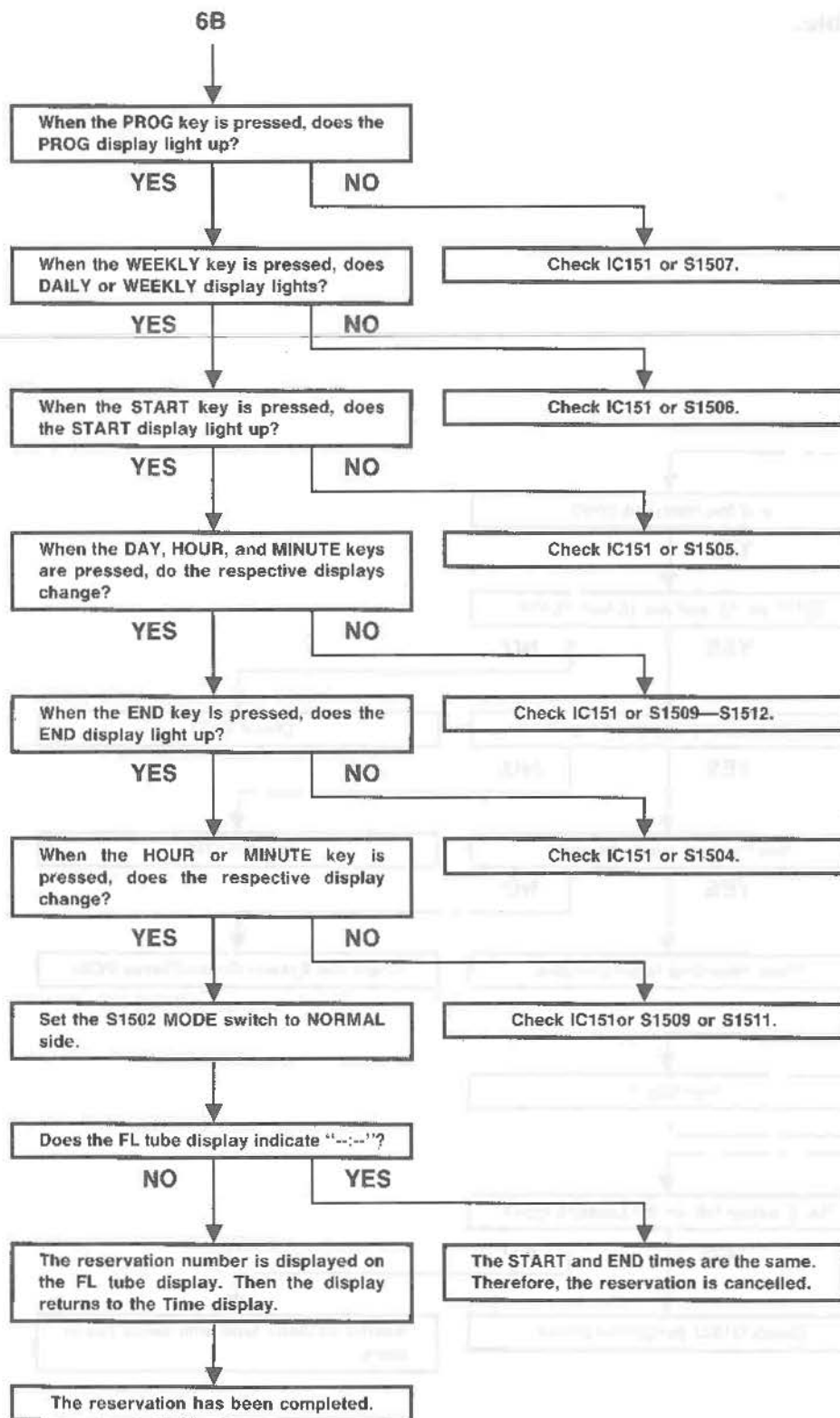


Step 4. Clock is defective.

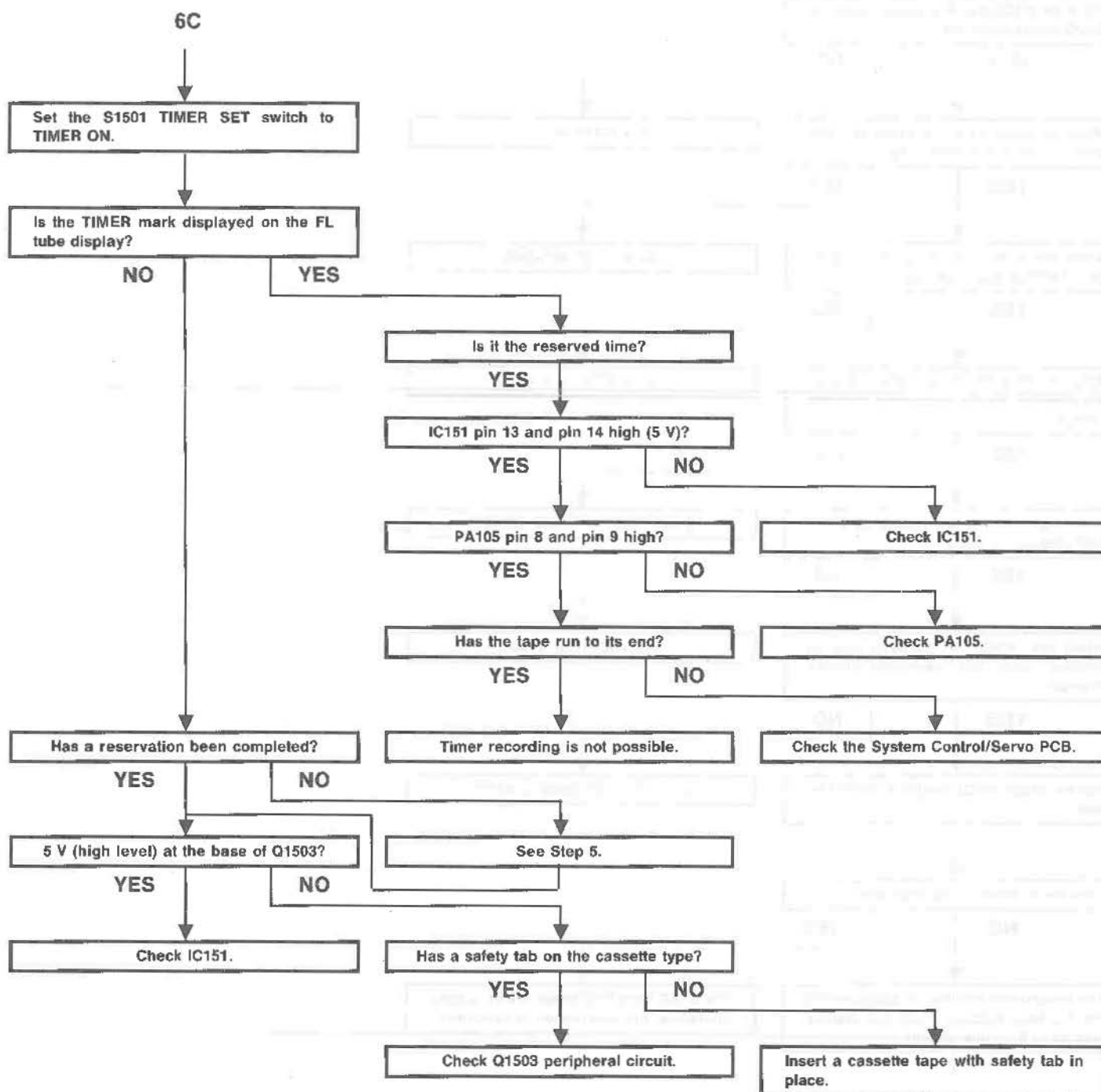


Step 5. Timer reservation is not possible.

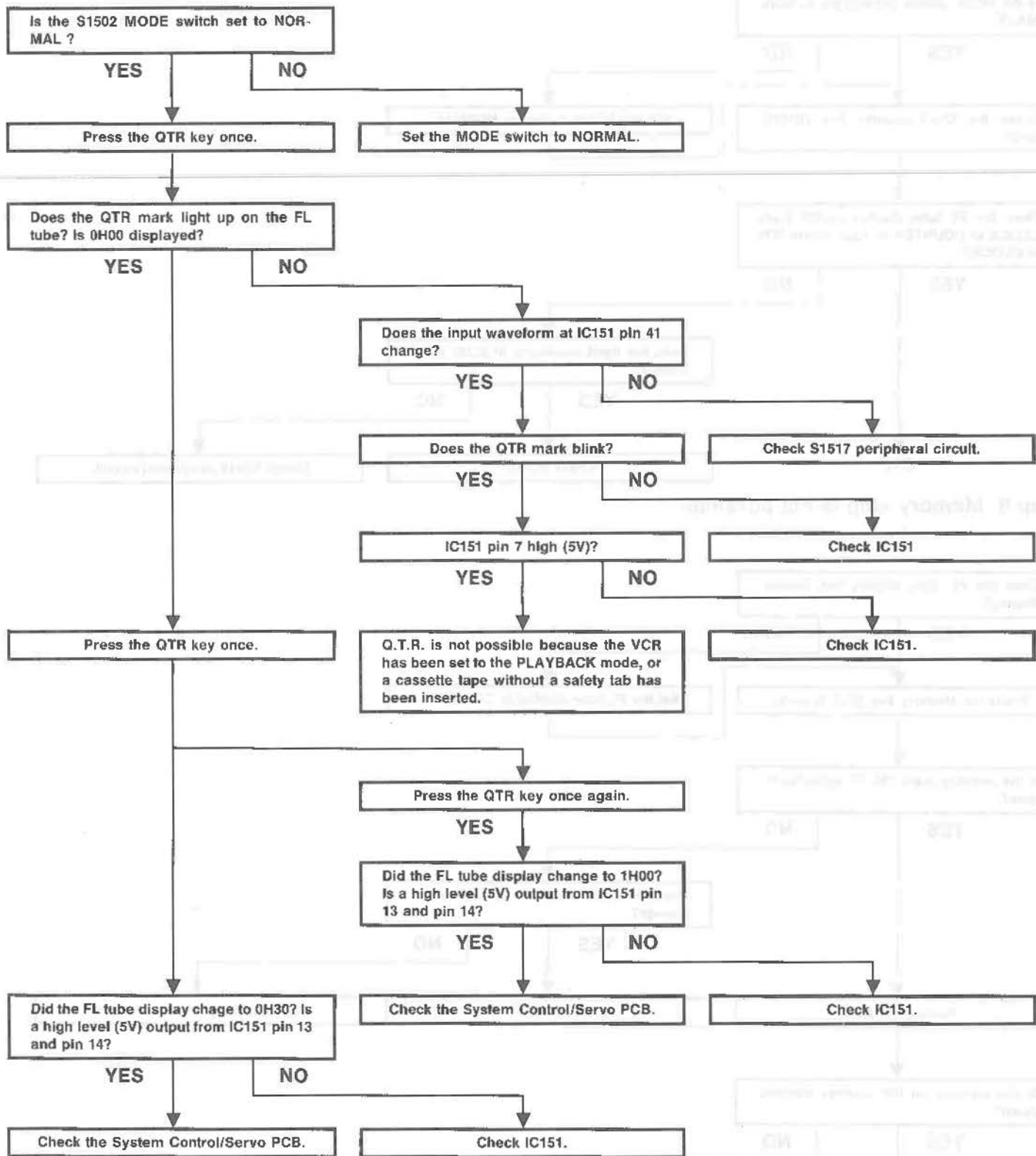




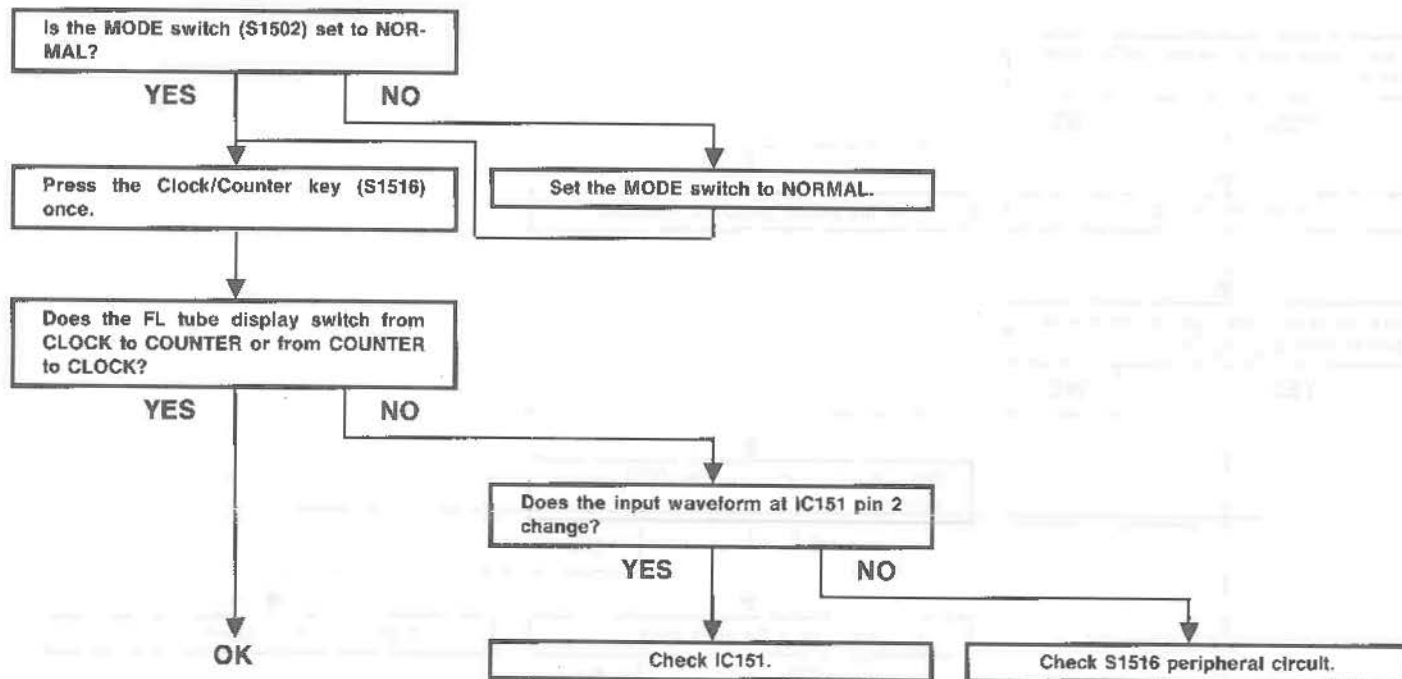
Step 6. Timer recording is not possible.



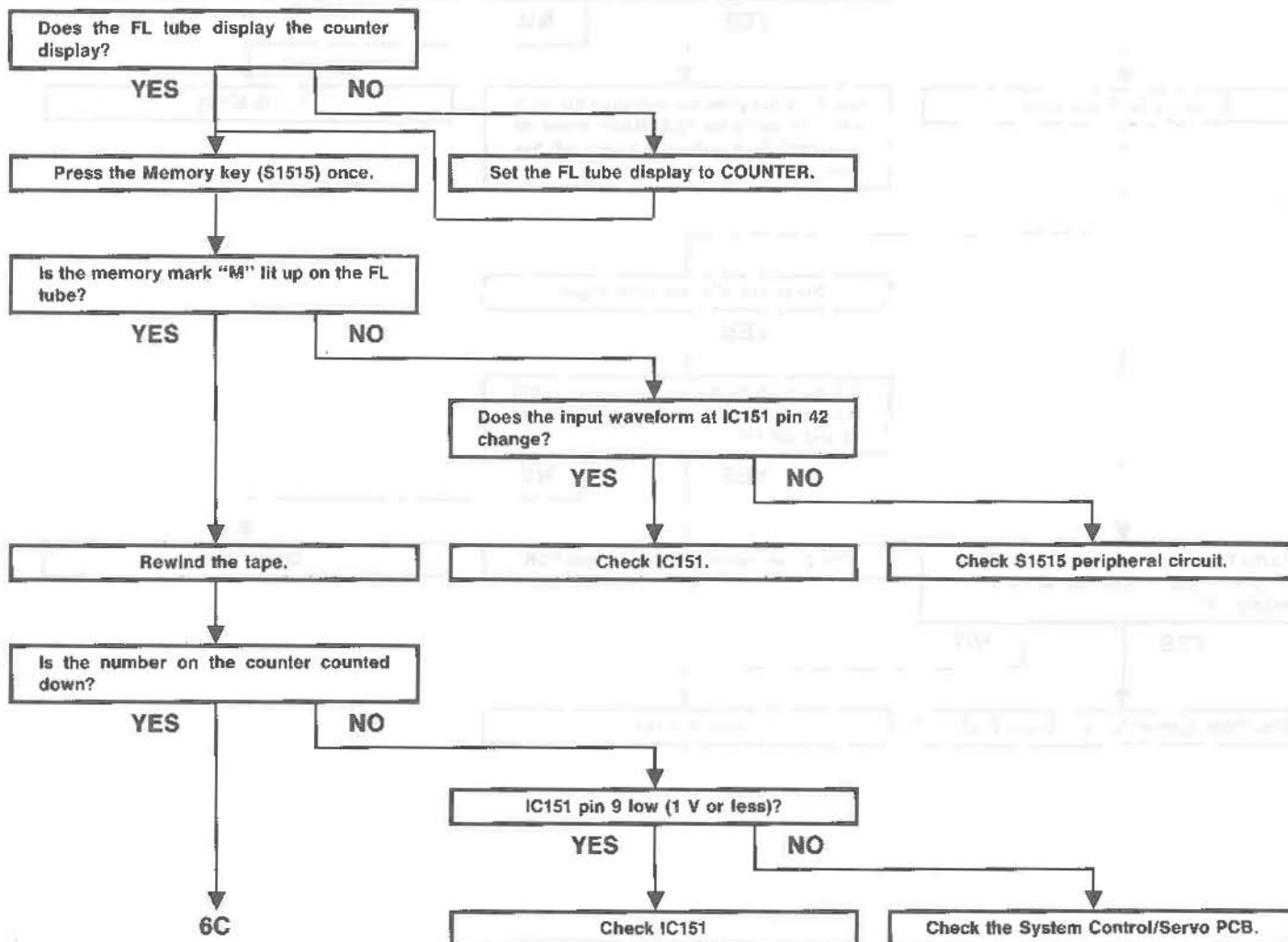
Step 7. Quick Timer Recording is not possible.

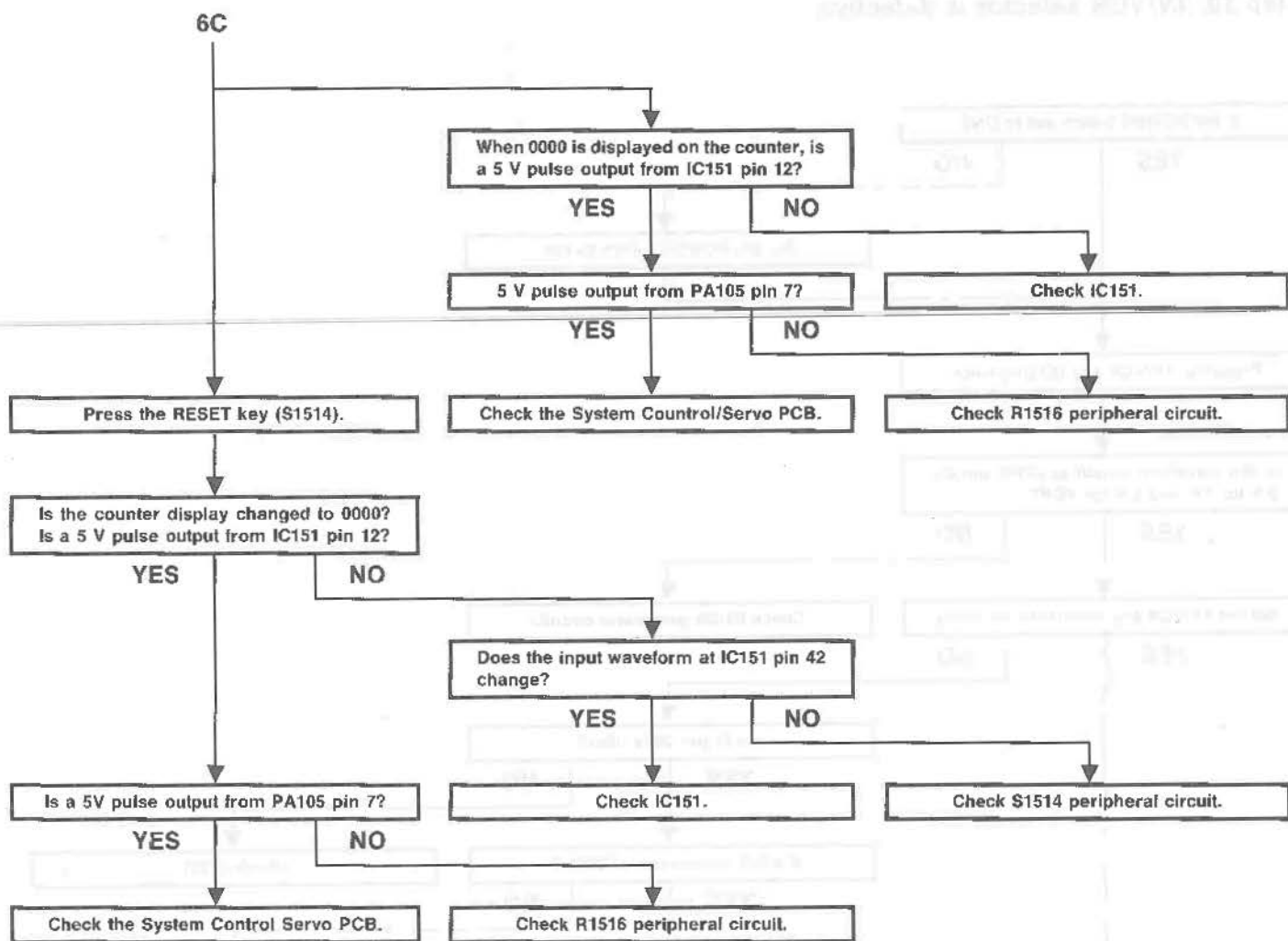


Step 8. Display will not toggle between Clock and Counter.

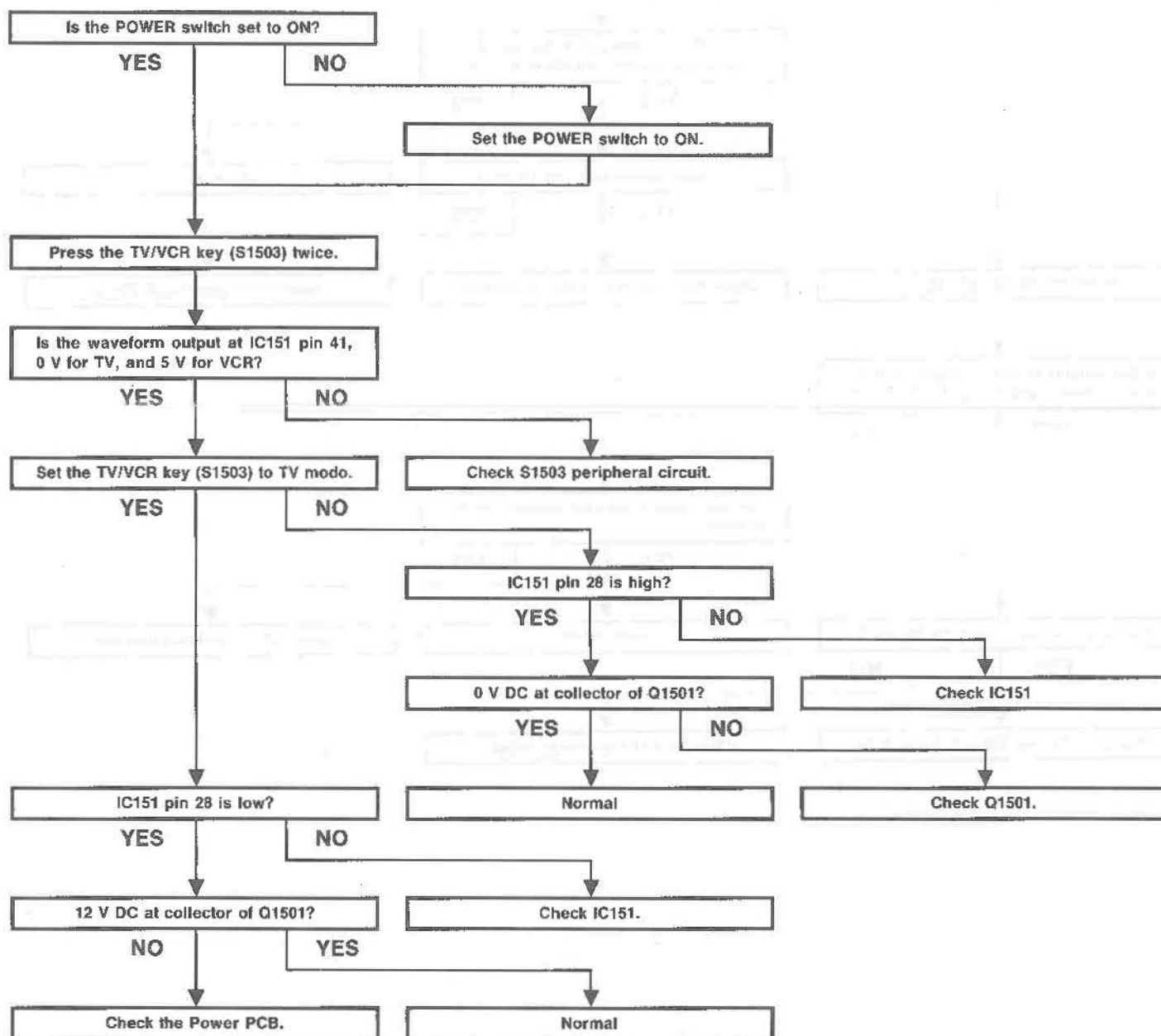


Step 9. Memory stop is not possible.

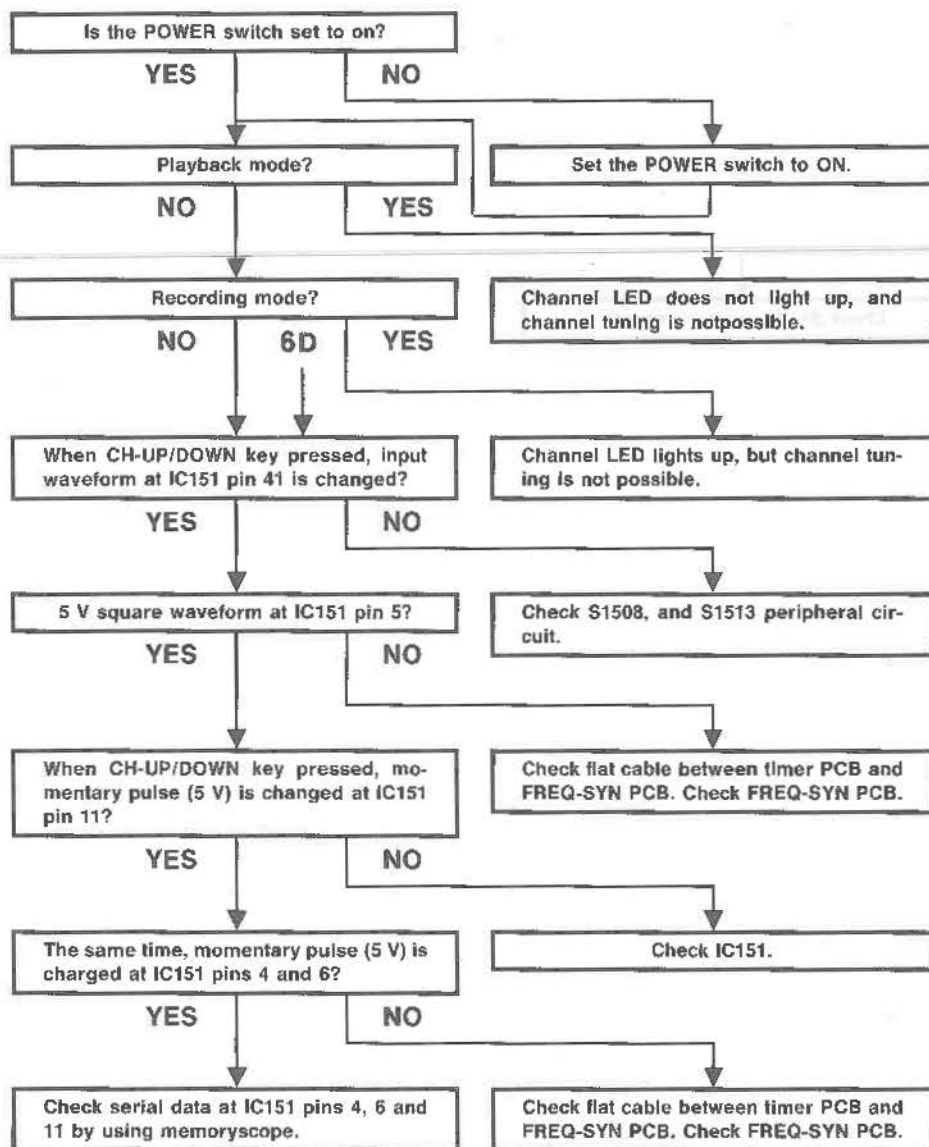




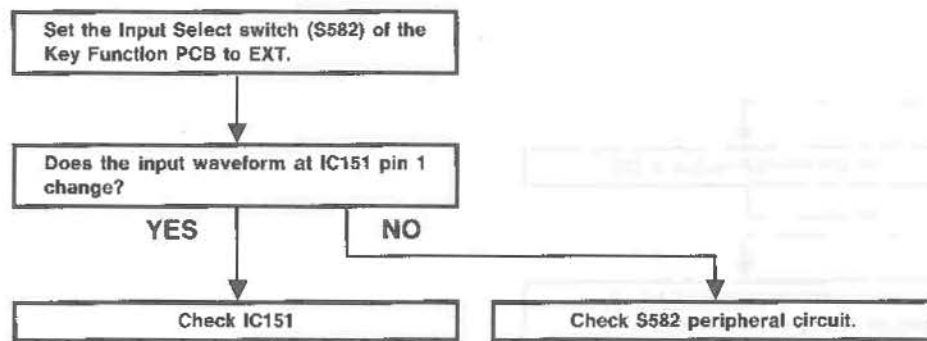
Step 10. TV/VCR selector is defective.



Step 11. Channel tuning is not possible.

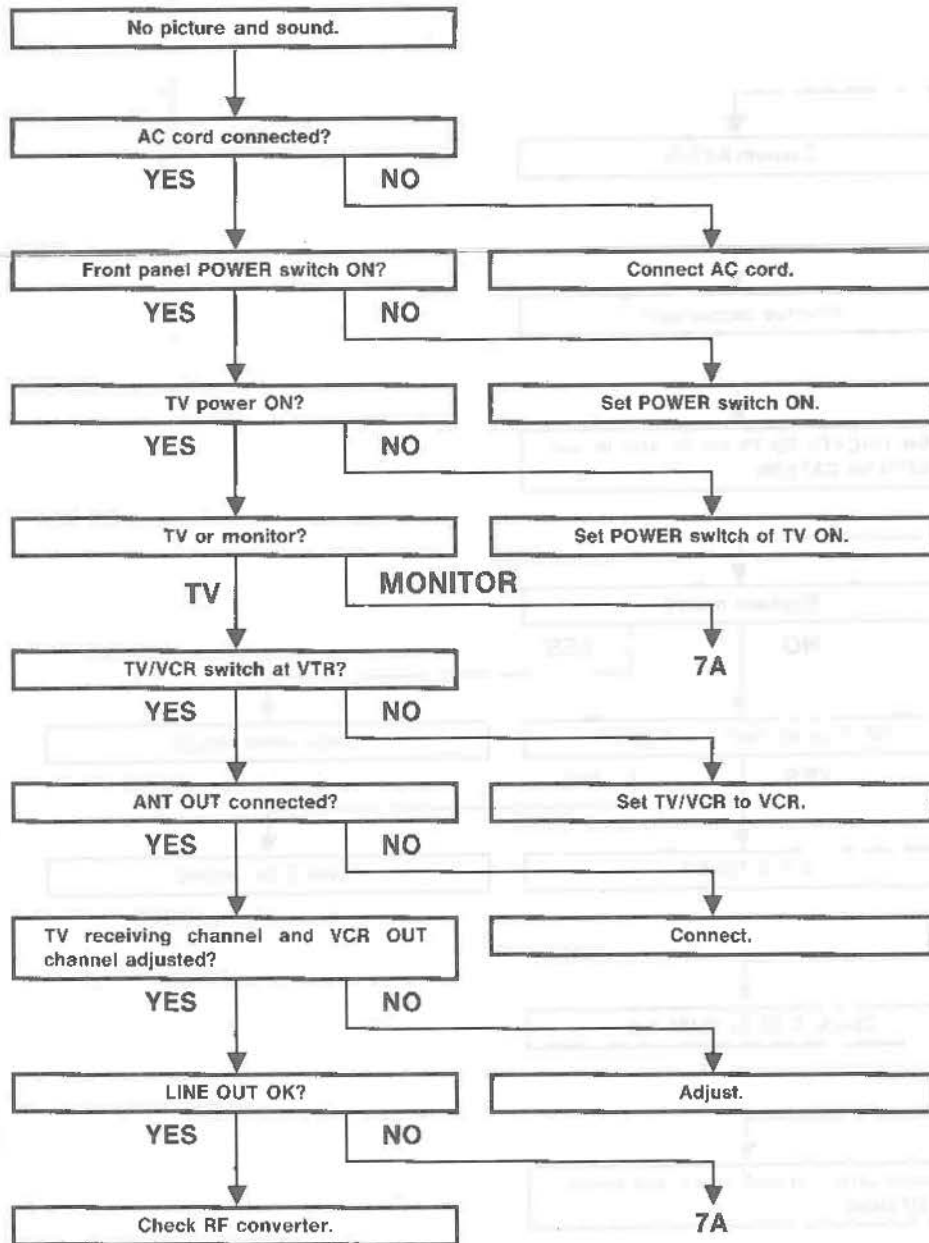


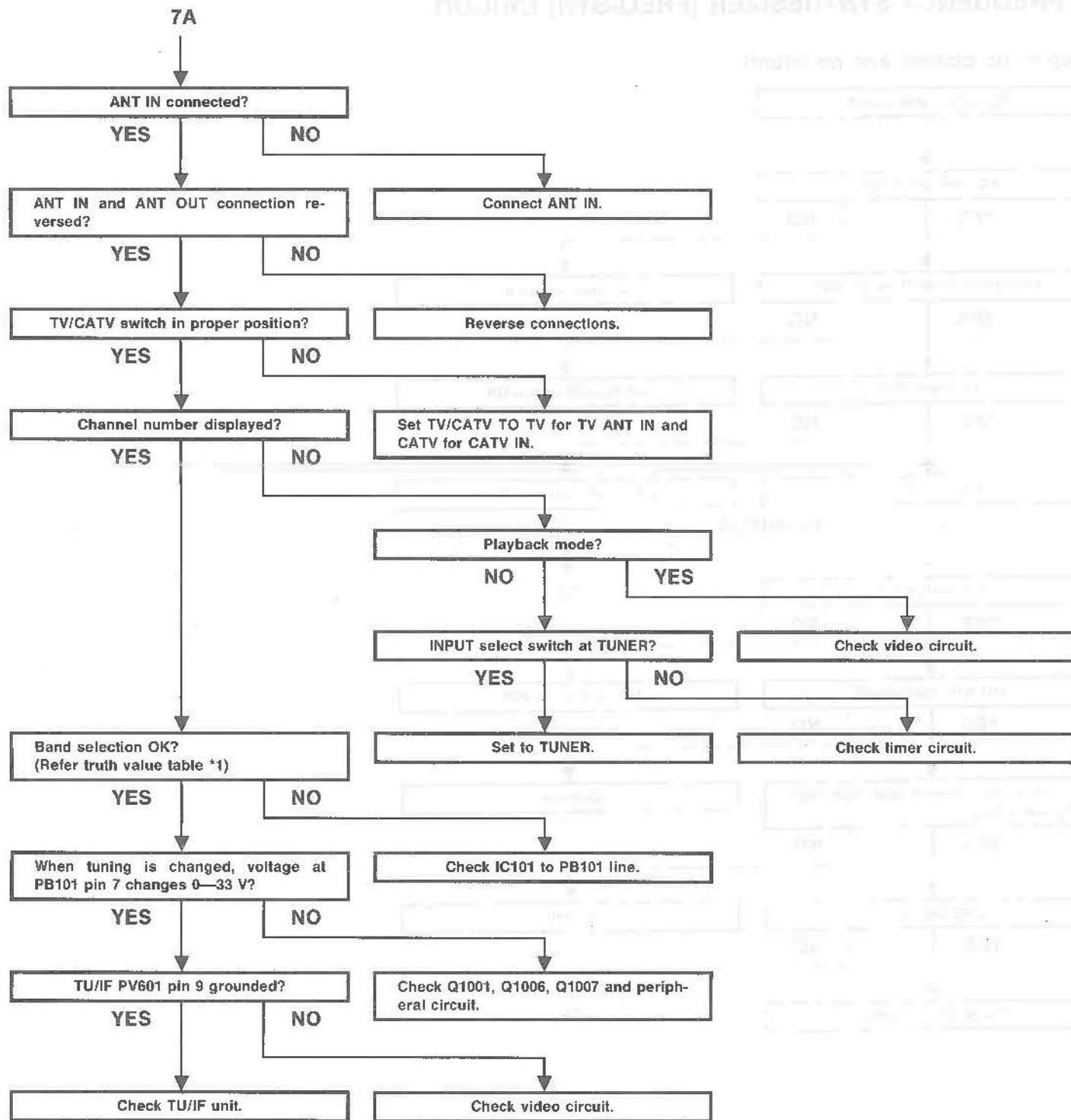
Step 12 When the Channel LED does not go out even when Input Select switch is set to EXT.



7. FREQUENCY SYNTHESIZER (FREQ-SYN) CIRCUIT

Step 1. No picture and no sound.



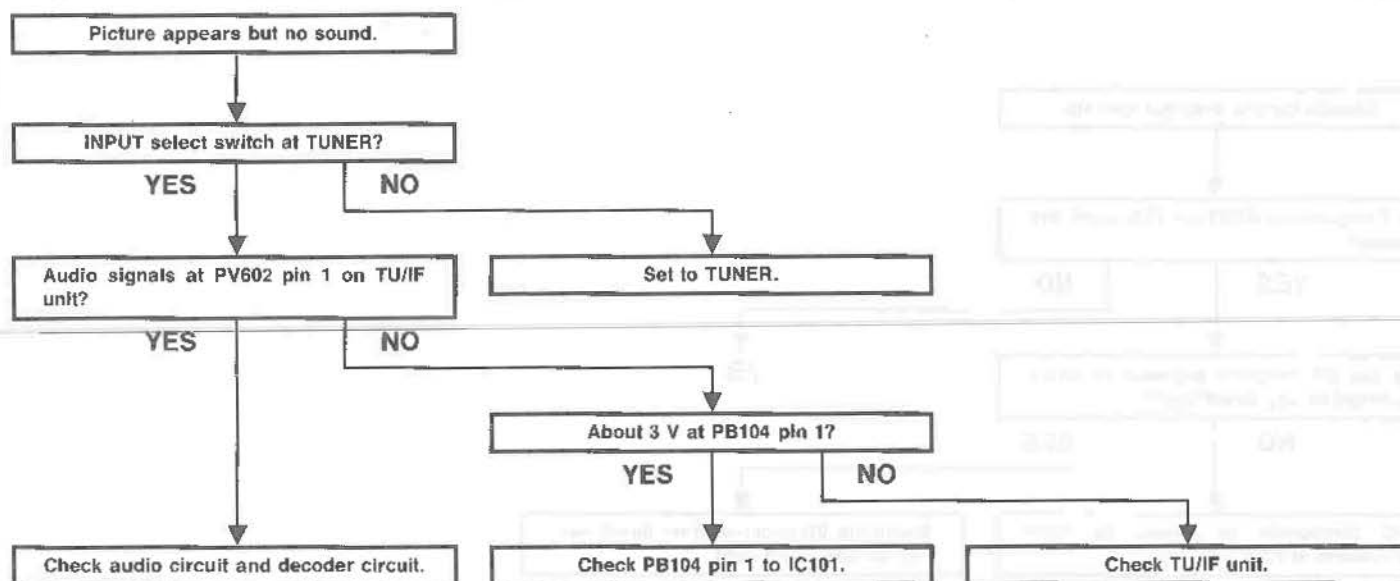


*1 (IC101 Truth value table.)

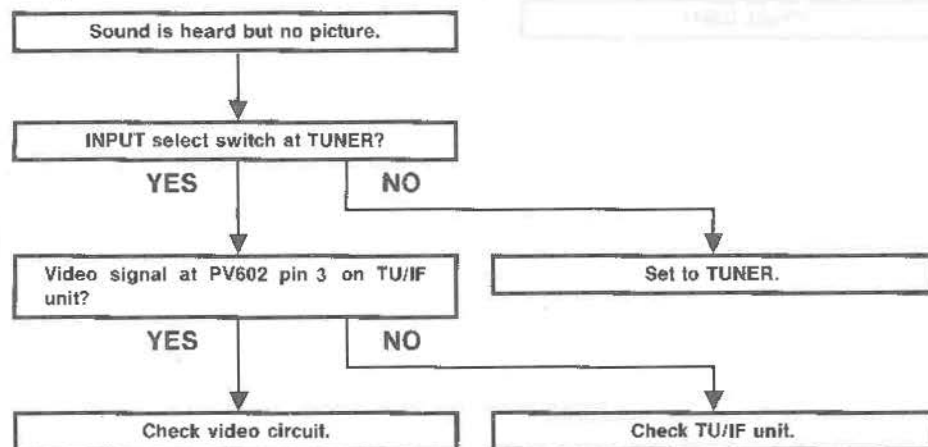
Port		Band	12 VDC voltage
F0	F1		
0	0	L	PB101 pin 5
1	0	H	PB101 pin 6
0	1	U	PB101 pin 8

0:Low, 1:High

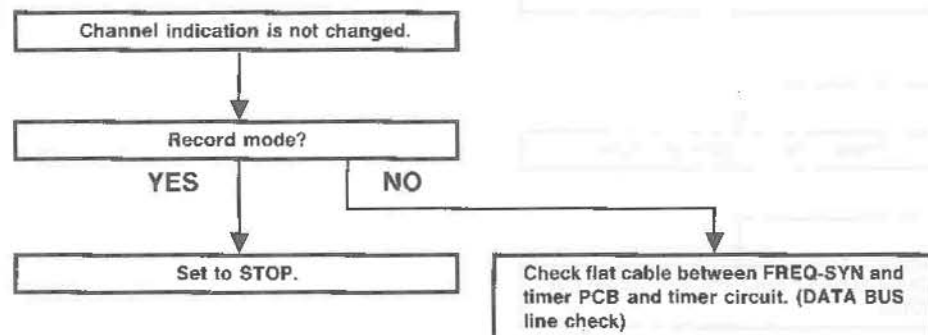
Step 2. Picture appears but no sound.



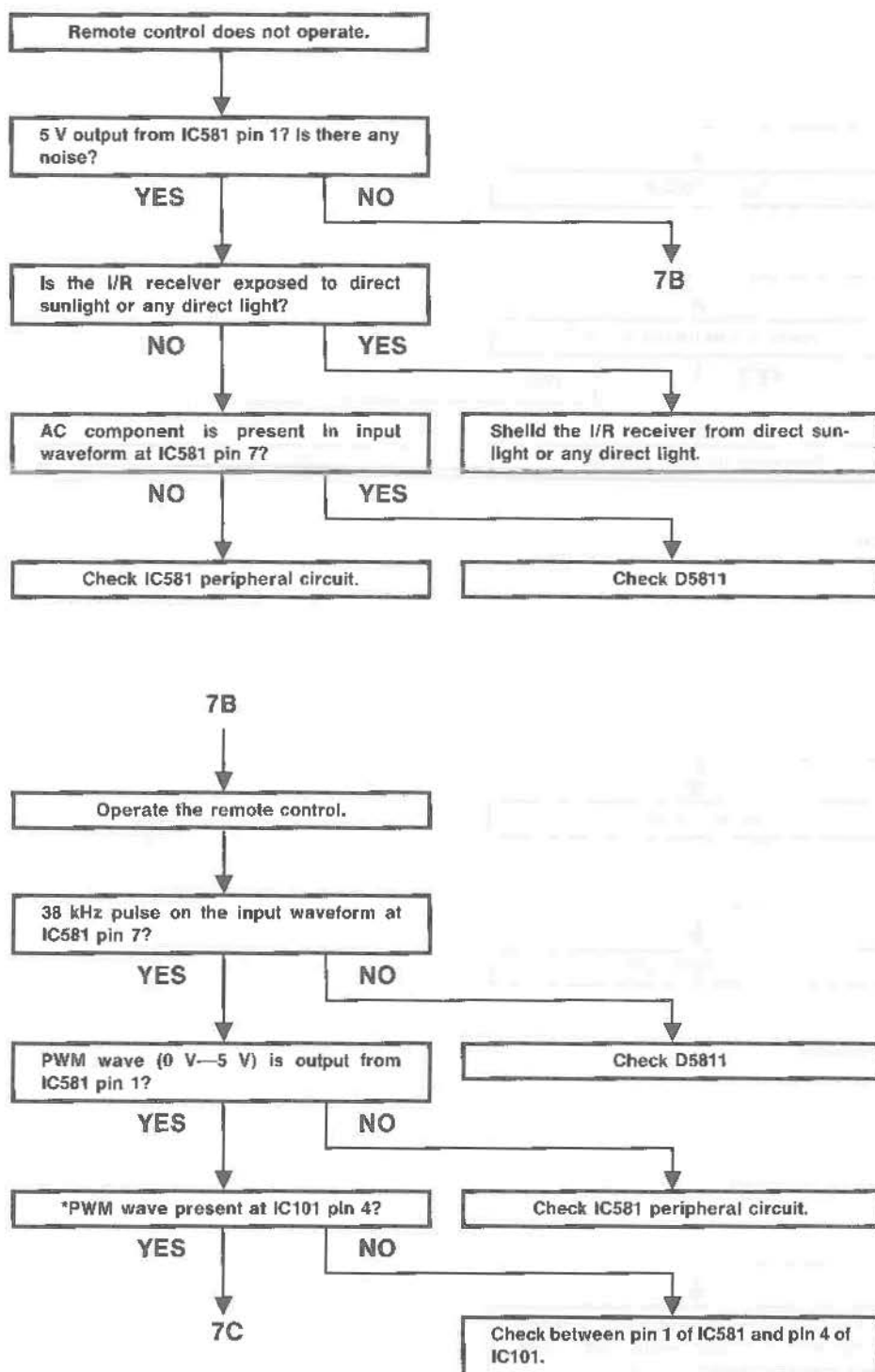
Step 3. Sound is heard but no picture.



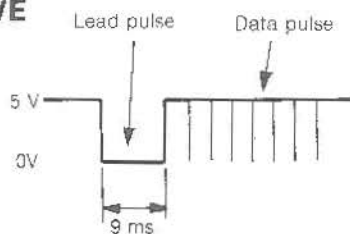
Step 4. Channel indication is not changed.

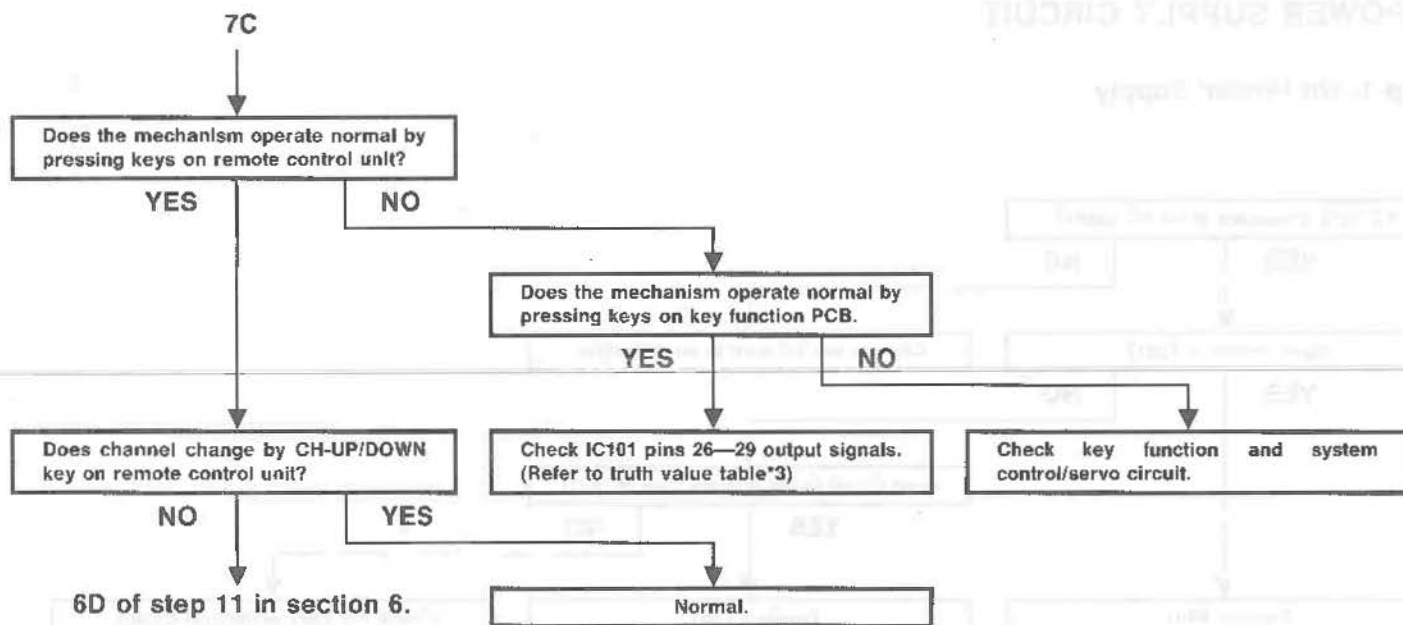


Step 5. Remote control is not possible.



*PWM WAVE





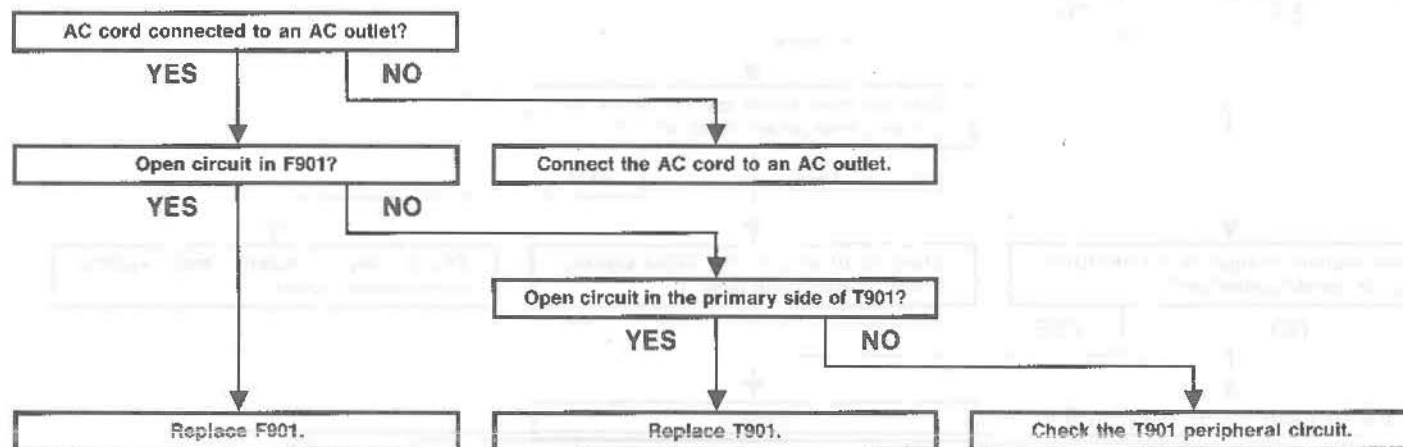
(IC101 Truth value table.)

Key	Port	pin 26	pin 27	pin 28	pin 29
Nothing		0	0	0	0
PLAY		0	0	0	0
REC		0	0	1	0
FRAME		0	1	0	0
FF		1	0	0	1
REW		1	0	1	0
STOP		1	0	1	1
T. SPEED		1	1	0	0
PAUSE		1	1	1	0

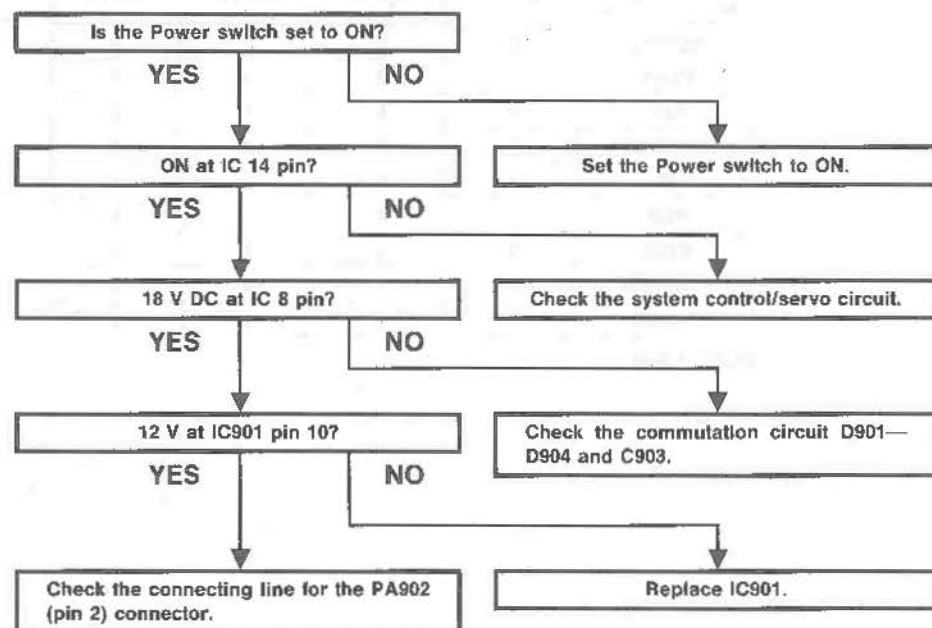
0:Low, 1:High

8. POWER SUPPLY CIRCUIT

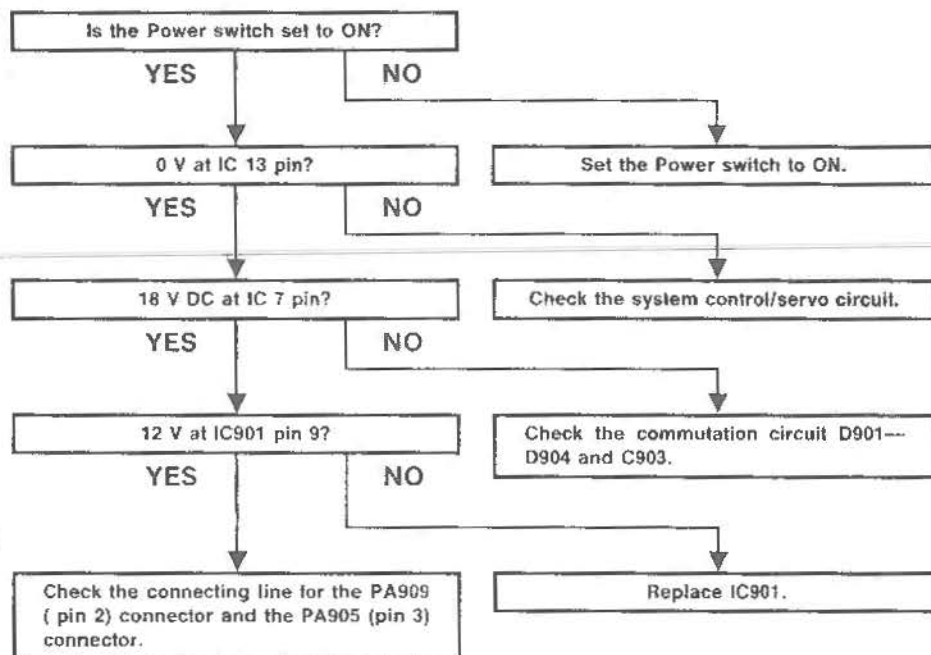
Step 1. No Power Supply



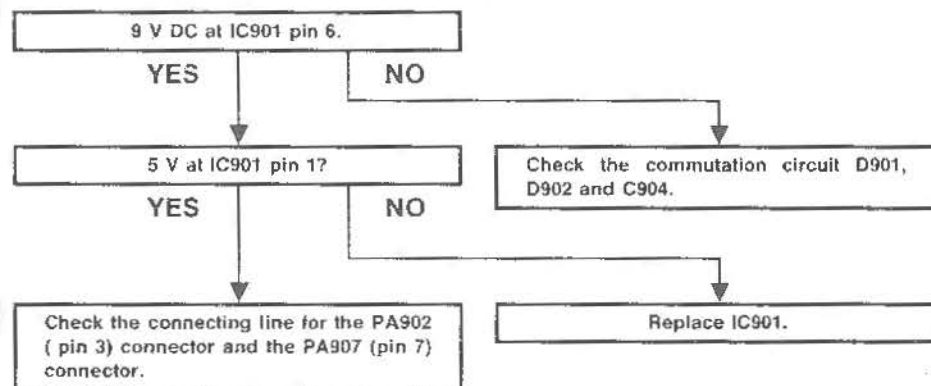
Step 2. No 12 V at PA902 pin 2.



Step 3. 12 V at PA909 pin 2, PA905 pin 3.



Step 4. 5 V at PA902 pin 3, PA907 pin 7.



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