

# Technical Bulletin

Product: CTV PTV	Model(s):  All 1996 Direct View and P2 Projection TV Models	Number: TB-97-01
Code: B01 B02 B05		Date: January 10, 1997

**SYMPTOM:** Static or popping noise in audio while receiving stereo or s.a.p. programs when set is connected to CATV system.

**CAUSE:** Cable signal's picture to sound carrier ratio is lower than -25db. This causes the MTS decoder switching logic circuit to hunt between mono and the selected MTS (stereo or s.a.p.) feature. The constant switching generates the noise.

**REMEDY:** Decrease the receiver's stereo / s.a.p. switching sensitivity by performing the listed circuitry changes. Refer to the PCB board layout in the appropriate service manual.

Chassis	PCB #	Component	Instructions
NA5B	TNPH0041	R2216 R2219 C2212 / 13 JS2205	Add 180kΩ (provision on PCB) Add 560kΩ (provision on PCB) Change value from 0.1 to 10μf Add jumper (provision on PCB)
NA5D	TNPH0042	R2216 R2219 C2212 / 13	Add 180kΩ (provision on PCB) Add 560kΩ (provision on PCB) Change value from 0.1 to 10μf
NA5C	TNPH0044	R2216 R2219 C2212 / 13	Add 180kΩ between pins 8 and 28 of IC2201 Add 560kΩ in parallel with C2212 * Change value from 0.1 to 10μf
GL10C / P2	TNPA083	R2216 R2219 C2212 / 13	Add 180kΩ between pins 8 and 28 of IC2201 Add 560kΩ in parallel with C2212 * Change value from 0.1 to 10μf

- NOTES:**
1. Sets connected to marginally maintained CATV systems will only be affected. **Do not** make these changes to a unit unless the customer complains and the conditions are as stated above.
  2. The necessary parts are supplied as a kit under part # TXANV098SER. Please order from National Parts.



\* For NA5C and GL10C chassis, it will be easier to install R2219 / C2212 as a "component pair" as shown.

Our thanks to O. Levesque of MFS for his input.

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