



BEAVERTON

MAINTENANCE NOTES

Severe Overshoot
and
Ringing With 1A1

PROBLEM

Up to 30% overshoot and ringing when 109 or TU-5 pulse is displayed via 1A1, especially when the 549 Trigger Source switches are set to "Plug-In". The problem has not been noticed with the 1A2. The cause is the lack of grounds on the shield of the "plug-in" triggering signal coax in the 549. About 70 549's under S/N 200 (all shipped prior to week 18 1966) will exhibit this problem.

SOLUTION

1. Add a ground strap from pin 4 of J11 in the 549 to the ground lead that goes from pin 2 of J11 to the connector plate. This eliminates the greatest part of the problem, and may be a sufficient cure in many cases. (If not, perform steps 2 and 3.)
2. Ground the other end of the "plug-in" triggering signal coax braid at the Sweep A Trigger Source switch by cutting back the insulation and grounding the braid to the braid of the "normal" internal trigger co-ax coming up from the V.A. to the adjacent switch contact.
3. Ground the "Plug-In" trigger co-ax that runs from the Sweep A to the Sweep B Trigger Source switches at both ends, as follows:
 - (a) Add a #4 solder lug under the post at the lower RH corner (as seen from the front of the instrument) of the Sweep A trigger selector switch bank.
 - (b) Loosen the corresponding post in the B Sweep trigger selector switch bank and rotate the existing solder lug up and toward the outside enough for convenient access for soldering.
 - (c) Install a new length of co-ax to replace the existing one between the two source selector switches. The total length can be about the same, but leave enough ground braid at each end to reach the solder lugs prepared in (a) and (b).

The above changes were implemented Week 18 in all instruments on hand in Beaverton.

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Product Technical Information
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