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August 15, 1956
Bulletin DC56-32

TO ALL SEEBURG DISTRIBUTORS:

Attention: Service Managers

Attached is a diagram showing a modification of the 2D21 test adapter given with our Bulletin DC56-31 of August 8. In this modification a 10 ohm and a 0.56 ohm resistor replace the 0.47 ohm resistor. It is recommended that test adapters having the single resistor be changed to include the two resistors and that any adapters made henceforth be set up in accordance with this new diagram.

The change is necessary to overcome a condition found in some of the pulse amplifiers in which there is an "over-shoot" when associated with a 2D21 tube that is unusually hot. The over-shoot causes the pulse amplifier to turn on and immediately turn off again so the net result is the same as though the 2D21 is weak or not acceptable.

The problem with the pulse amplifier is associated only with the adapter and the test of the 2D21's in which an unusually high amplitude pulse can be fed into the amplifier. It should not be confused with normal operation in any way because the amplifier displaying the unusual condition will function properly in normal selection operation.

The resistors for the modified adapter circuit are not used any place in our normal equipment and for that reason are not available from our Parts Department. They may be had from any radio parts supplier carrying a reasonably complete stock for they are standard RETMA values. It is recommended that only the wire-wound types be used. It is also recommended that the shielded lead of this adapter be held to not more than 10" length and that a low capacitance type be used. If the lead is too long or is of high capacity, it will seriously attenuate the pulse to the pulse amplifier and effectively change the operational characteristics so that tubes that are still useable will be rejected. If there is any doubt of the type of shielded wire you have available, you may order the No. 95106, vinyl covered, single conductor cable, available from our Parts Department.

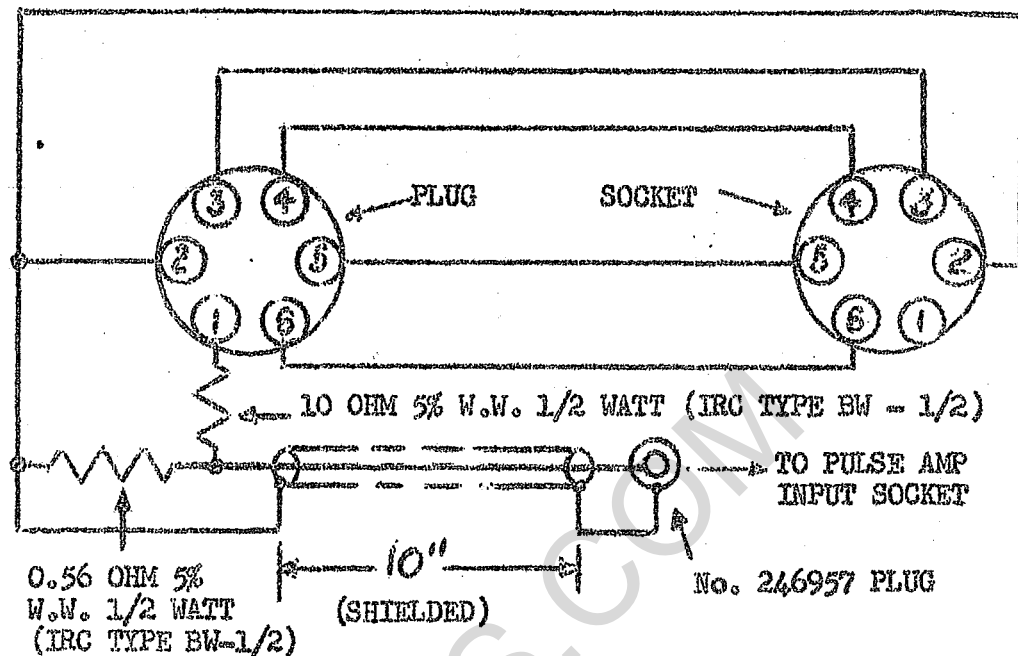
Sincerely yours,

J. P. SEEBURG CORPORATION

C. M. Smith
C. M. Smith
Manager of Field Service

CMS:BC
encl.

2D21 TEST ADAPTER



1. Remove 6-prong mechanism plug from Selection Receiver.
2. Plug test adapter into Selection Receiver.
3. Plug mechanism plug into adapter.
4. Remove "phone" plug connection of Memory Unit output from pulse amplifier.
5. Plug the shielded lead from the adapter into pulse amplifier.
6. Place 2D21 to be tested in read-out position.
7. Allow 15 seconds for 2D21 to heat and start carriage scanning.

The carriage will trip-to-play at each record space if the 2D21 tube is acceptable for use in either write-in or read-out position. If the carriage does not trip at each record, the tube is "bad" or is nearing the end of its useful life.

Note: In the use of this test it is assumed that the read-out and trip circuits are normal.