



Engineering Change Notice (ECN) 003

Screen Stability Resistor Update Dyna-70/-120 Ultimate Upgrade Engineering Update

Part/System: Dyna-70 / Dyna-120 Ultimate Upgrade / Output Transformer Protection
Applicability: Automatic & Manual Bias Amplifiers
Effectivity: October 21, 2024 (original release)
Priority: **Required**; an update to the Dyna-70 amplifier is **required** for amplifier performance & reliability.

Introduction

This ECN addresses a **required update** to the Dyna-70/-120 Ultimate Upgrade amplifier. As a part of our continuous product & process improvement efforts, Miller Audio LLC (MALLC) recommends all owners and users of Dyna-70/-120 amplifiers update their amplifier with Screen Stability Resistors on the power output tubes.

This ECN does not impact newly-built Miller Audio LLC Dyna-70/-120 Ultimate Upgrade amplifiers. We build all new amplifiers with the newest and latest components and assembly configurations in use at the time of order.

This upgrade is required for ALL Dyna-70/-120 auto bias and manual bias amplifier systems. There is no defect or fault in the Dyna-70/-120 amplifier, the Dyna-70/-120 Printed Circuit Board (PCB), the completed Dyna-70/-120 Circuit Card Assembly, or in its design.

Background

ECN003 introduces a new part, a 100-Ohm, ¼ Watt Resistor, that is used to protect the amplifier, specifically the output transformers (OPT), from failure if/when a vacuum tube fails, arcs or shorts. These resistors act as a “fuse” that protects the output transformer from damage. This resistor is placed in-line with the lead at tube socket terminal #4, which are either solid Green, or Green/White leads from the OPT to the tube socket, see attached Photo #1 on the following page.

With the release of ECN003, all Dyna-70/-120 Ultimate Upgrade Kits will include a set of 4, 100-Ohm ¼ Watt resistors at no charge.

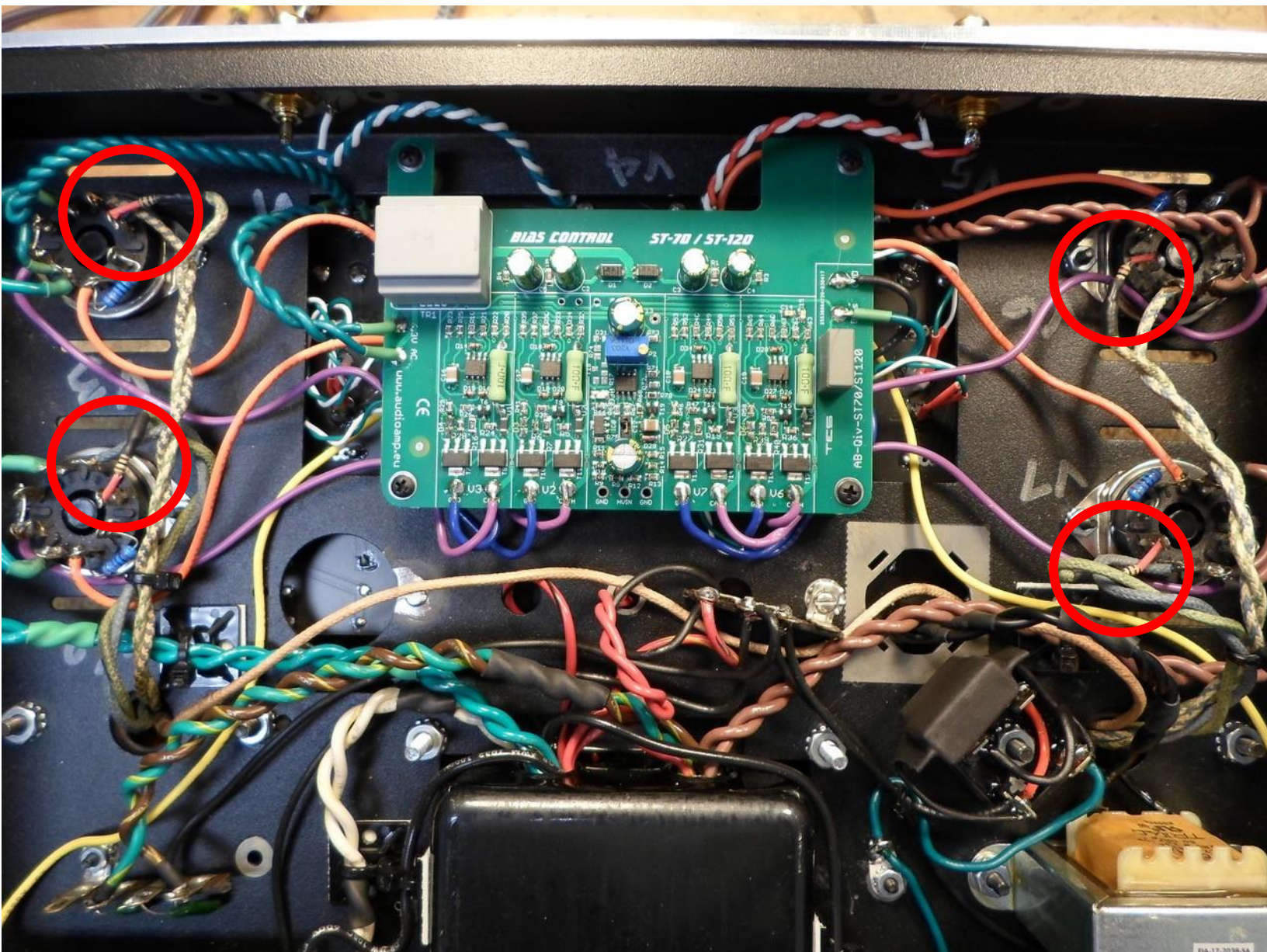


Photo #1- Installation of 100 Ω , ¼ Watt Screen Stability Protection Resistors @ Output Tube Terminal #4

- MALLC will update the Dyna-70 Ultimate Upgrade Kit Assembly Manuals to reflect this change.
- MALLC will post this ECN in its' website documentation pages for consumer reference.

NOTE: Miller Audio LLC reserves the right to make design changes, parts replacement, substitutions and specification revisions at any time and without notice. If you have questions about these updates, please contact us.

END