

HARRISCOMMUNICATION AND
INFORMATION PROCESSING

SERVICE BULLETIN

MAINTENANCE AND MODIFICATION DATA

Broadcast Products Division

MW-1A

Bulletin No. AM-130-TLH

Equipment:

Date June, 1979

SUBJECT: T2, variable transformer, Part No. 474-0090-000

It has come to our attention that arcing can occur within the T2 assembly. This arcing, if not prevented, can ultimately lead to the contact assembly burning out. The cause for this has been found to be insufficient lubrication in the center of the assembly, between the 4 point copper contact and the fixed contact armature. This lack of lubrication allows the contacts to drag, bounce, and arc. In an extreme case, this could cause the top plate to bind and burn out the motor. This problem has been limited to a particular production of these transformer assemblies, which may have been incorporated in your transmitter. As a preventive solution, Ohmite (the manufacturer of the transformer assembly) has provided us with a conductive grease, which we are forwarding to our customers.

Because of the close spacing of the plate assembly and transformer a small flat blade is needed to work the lubricant in between the contacts. (A common eating utensil such as a butter knife is recommended because of its thin blade and no sharp edges. Due to the poor lighting in this area a flashlight may also be needed.

- 1) Disconnect all primary power to the equipment.
- 2) Locate T2, variable transformer assembly.
- 3) Find the plate which rotates above the windings.
- 4) In the middle of the plate, on the underneath side is the 4 point copper contact which presses down on the fixed contact armature. (See attached diagram)
- 5) Dab on a small amount of grease to the tip of the knife or blade and work it into the contact assembly. Repeat process to all points of contact around plate assembly. (Only about $\frac{1}{4}$ of the grease provided will be necessary.) Care should be taken to keep the grease off the carbon brush and transformer.

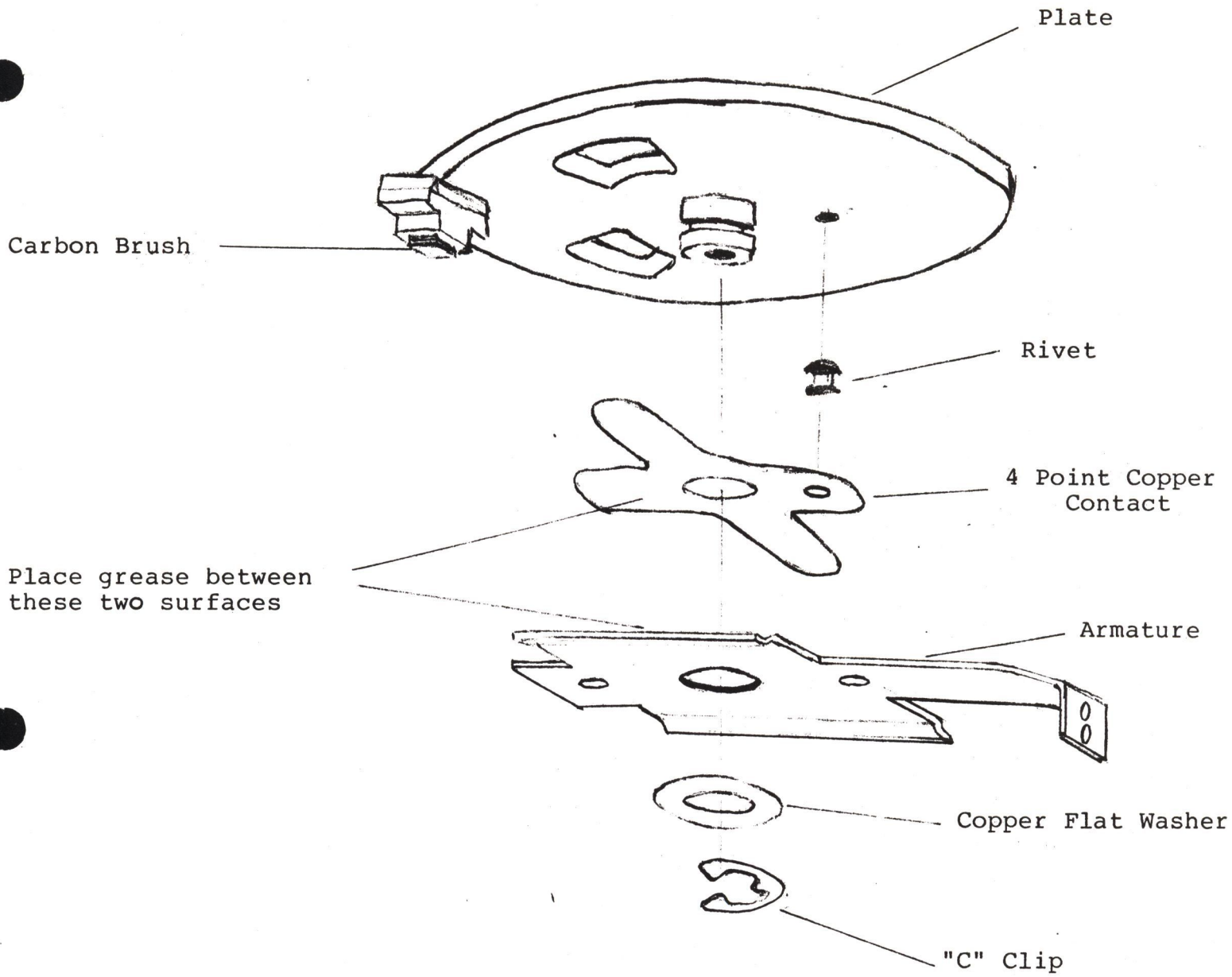


Plate Assembly for
Variable Transformer, T2