

# VARIABLE TRANSFORMER REPLACEMENT #3886

## Alpha and AP Platters

**Caution:** Disconnect power and unplug the power cord.

1. Discard the two 4" green wires that come with the new variable transformer. These are used for Make-Up table installation only. See page 3.

**NOTE FOR PROPER GROUNDING:** The existing green ground wires attached to the old variable transformer frame must be reconnected to the grounding lug shown in Fig. 2.

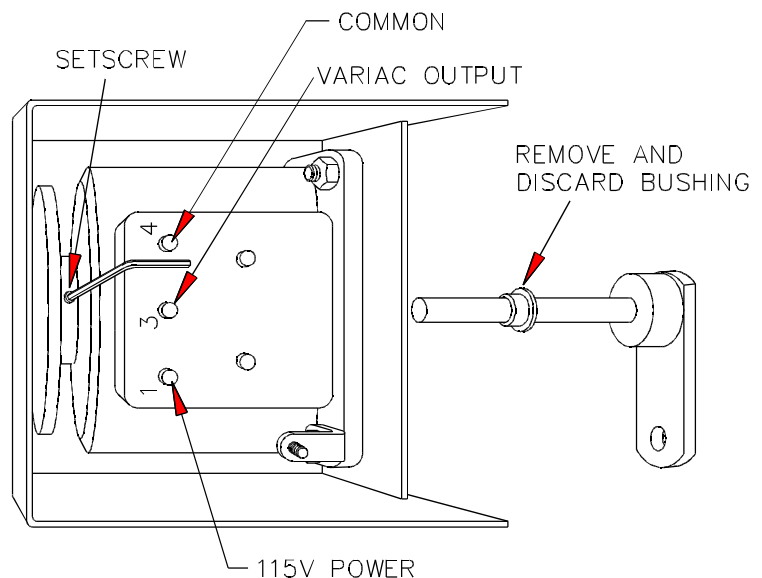
2. Remove the variac enclosure from the platter. This is very important! The screws securing the replacement transformer must be tightened while the transformer and hub and shaft assembly are vertical in the shaft opening. If the screws are tightened while the transformer and hub and shaft assembly are horizontal, it is difficult to center the hub and shaft assembly in the shaft opening and **binding** may occur.

3. Disconnect the wiring to the old transformer. Note the location of all wires for reconnecting later.

4. Loosen the two setscrews located near the rear of the transformer using a long 5/64" allen wrench. Remove the Hub and Shaft Assembly. (See Fig. 1).

5. Remove the plastic bushing in the shaft opening and discard. (See Fig. 1).

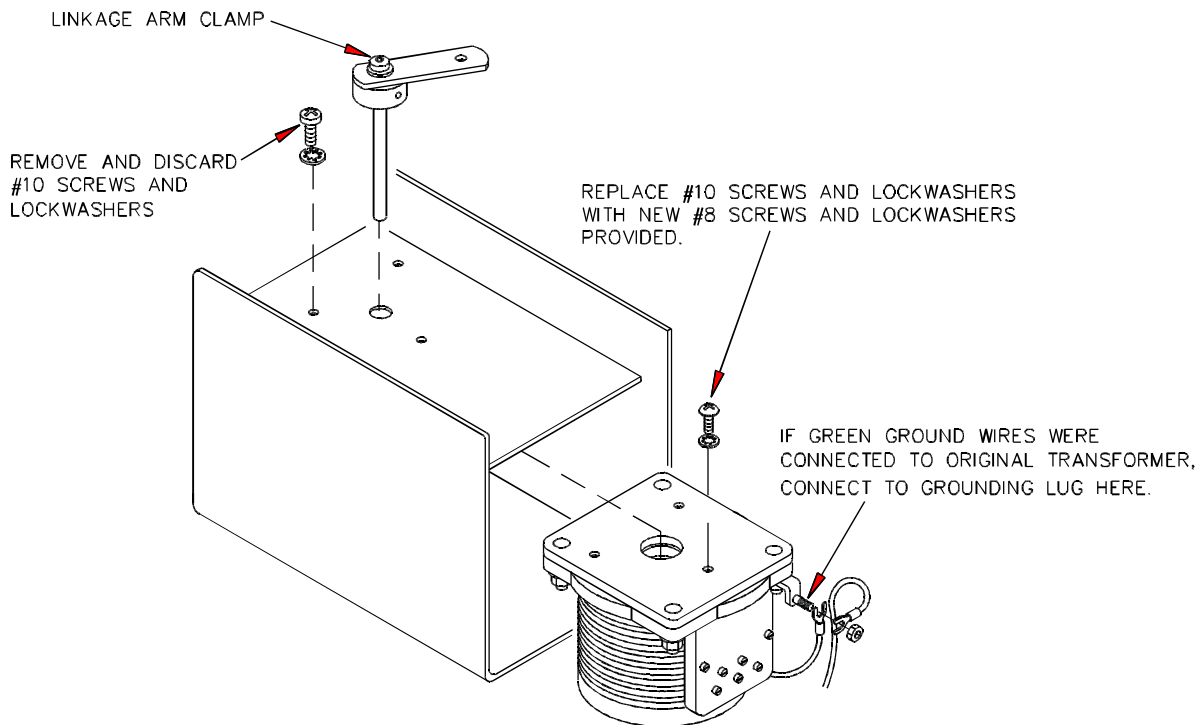
6. Remove the three #10 screws and lockwashers securing the old transformer and discard. (See Fig. 2). Remove the transformer.



**Figure 1**

7. Install the new transformer in the vertical position and secure the transformer with the three #8 mounting screws and internal tooth lockwashers. **Leave screws loose at this time.** (See Fig. 2).
8. Install the Hub and Shaft Assembly through the shaft opening into the transformer. Center the Hub and Shaft Assembly in the shaft opening and tighten the three transformer mount screws.

9. Position the Hub and Shaft Assembly so that the hub is approximately 1/16" away from the face of the mount plate. Tighten the two setscrews at the rear of the transformer as shown in Fig. 1.



**Figure 2**

10. If the original transformer had green ground wires attached, connect these wires to the grounding lug on the base of the new transformer (See Fig. 2) and reconnect the original wiring. (See Fig. 1).
11. Reinstall the variac enclosure and linkage rod.
12. Loosen the linkage arm clamp so that the linkage arm is free to rotate on the Hub and Shaft Assembly. Raise the take-up plate to the top of its travel. Rotate the variac Hub and Shaft Assembly counterclockwise until it stops, then rotate clockwise one or two degrees and tighten the clamp. This will allow the take-up plate to stop against the upper take-up bracket before the variable transformer reaches its mechanical stop.
13. Raise the take-up plate to the top of its travel and, placing your finger under the take-up plate, lower the take-up plate slowly. The take-up plate should follow your finger all of the way to the bottom without binding.
14. Restore power and check for proper operation.

# Variable Transformer Replacement

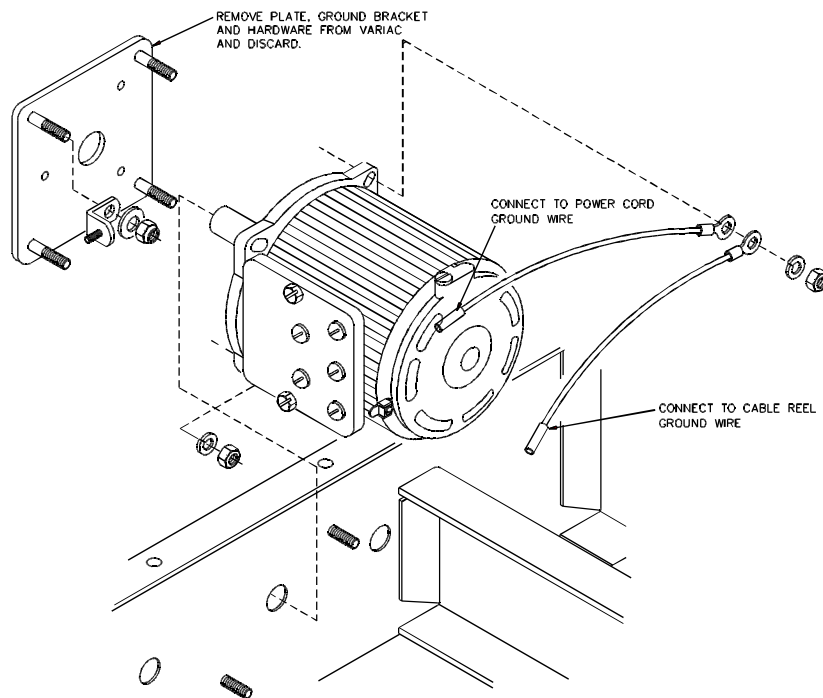
## Make-Up Table

**Caution:** Turn the table power off and unplug the power cord.

1. Remove the square steel plate, ground bracket and mounting hardware from the new variable transformer and discard (See Fig. 3).
2. Replace the old variable transformer with the new variable transformer.

**NOTE FOR PROPER GROUNDING:** To obtain proper grounding the spade connectors on the green wires from the power cord and the cable reel must be cut off, and those wires must be butt spliced to the 4" green wires that are included with the new variable transformer. The two ring tongue connectors should be secured under the corner mounting nut (See Figure 3).

3. Restore power and check for proper operation.



**Figure 3**