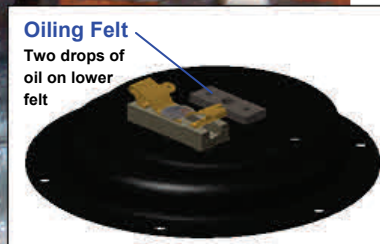
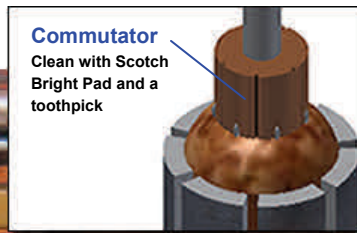
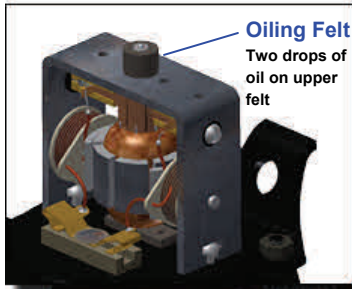


Horn Basics

by Paul R. Modlin



Oiling

Tools and Supplies:

- Flat blade screw driver
- Scotch Bright Pad (or similar)
- Sewing Machine Oil
- Kerosene
- Toothpicks

Procedure:

1. Remove the dirt build up from the **Upper and Lower Oiling Felts**. Clean with kerosene and pad dry.
2. Polish the **Commutator** with a Scotch Bright Pad. Clean between the gaps with a toothpick.
3. Apply two drops of sewing machine oil to both the **Upper and Lower Oiling Felts**.
4. Lightly grease the upper and lower tips of the **Motor** shaft, as well as the bottom of the **Ratchet**.

Problems and Solutions

Tuning Screw

Adjust with cover on.



Cover Screw

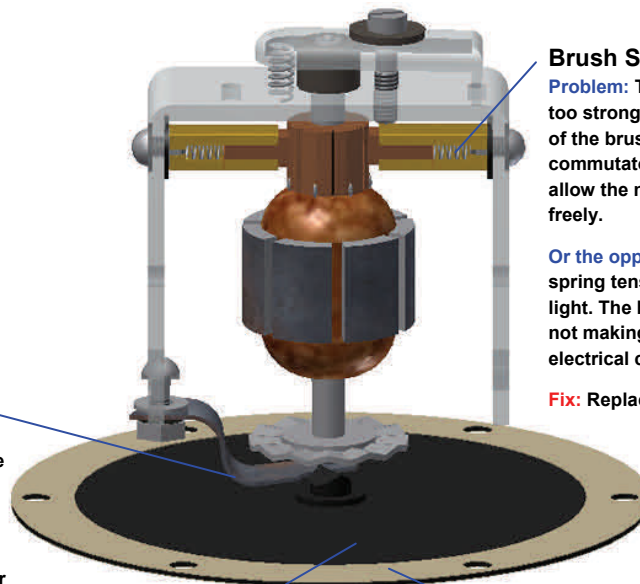
Problem: Reproduction screw allows cover to be over tightened.

Fix: Loosen screw or replace with original.

Tension Spring

Problem: The spring is too strong. The pressure of the spring will not allow the motor to turn freely.

Fix: Add an extra washer to drop the spring or slightly bend the spring to reduce the pressure.



Brush Spring

Problem: The spring is too strong. The friction of the brush on the commutator will not allow the motor to turn freely.

Or the opposite: The spring tension is too light. The brushes are not making a good electrical contact.

Fix: Replace spring.

Diaphragm

Problem: Over restored. The paint is too thick, preventing proper resonance of horn.

Fix: Remove paint and repaint sparingly.

Gasket

Problem: The gaskets are missing. There should be one on each side of the diaphragm.

Fix: Replace gaskets.

Horn Assembly

