To Test For A Shorted Winding:

CAUTION: Always turn the switch off before placing an armature into the jaws or removing one from the jaws. The armature tester may burn out if left on without an armature in the jaws.

1. Place the armature in the jaws.

2. Press the ON-OFF switch to ON.

3. Hold a hacksaw blade or similar strip of steel, lengthwise against armature laminations and slowly rotate the armature under the blade. A shorted winding will create a magnetic field and the hacksaw blade will be attracted to slots in which the shorted winding is located. The blade will vibrate, producing a growling noise.

   Some armatures will attract hacksaw blades at every slot even when no short exists. To test such an armature for a shorted winding, use the meter circuit. The black test prods should be placed across adjacent commutator segments or across every other segment, depending upon the design of the armature. The armature should be rotated until the maximum meter reading is obtained. The test prods should then be held in this position while the armature is rotated for testing. The meter reading will be the same for all good windings. A shorted winding will read low and a winding shorted at the commutator will read zero. An open winding will also read zero.