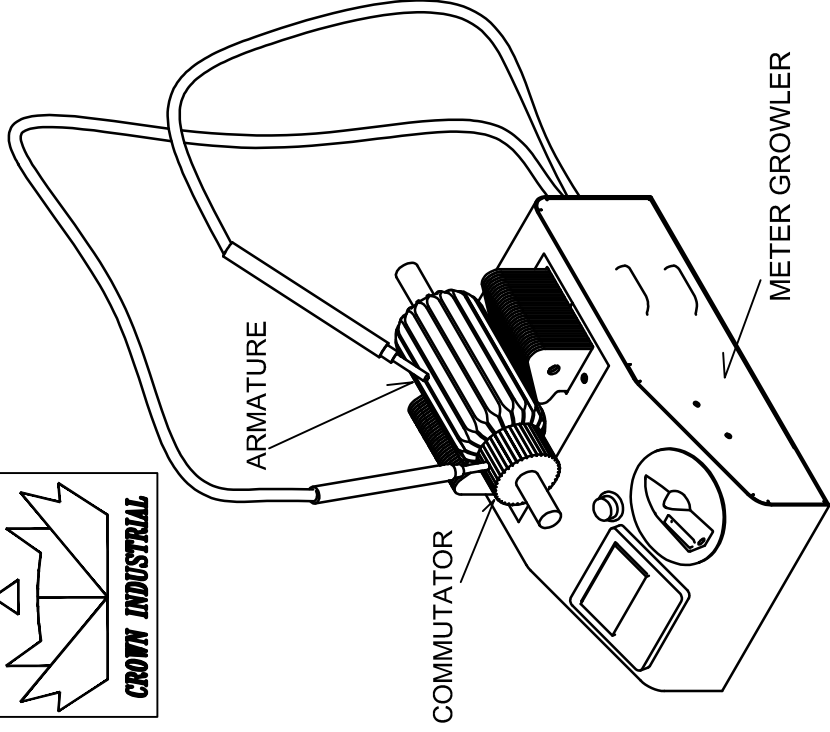


ARMATURE TESTING

The "Ground" Test:

- 1- Place armature in growler turn the selector switch to "GRND. TEST" and turn power on.
- 2- Touch one test probe to armature core, other test probe to commutator as shown. If test lamp glows, armature or commutator is grounded. Replace armature.



De-magnetizing/Magnetizing:

These Growlers may be used for either de-magnetizing or magnetizing.

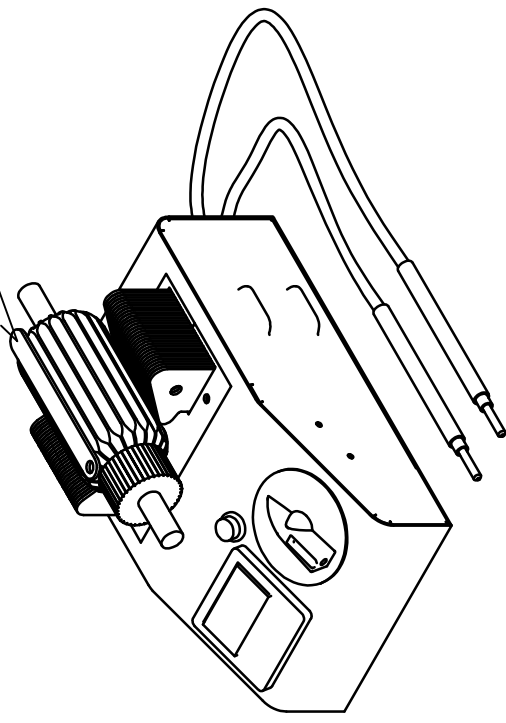
To De-magnetize tools or other objects, turn the selector switch to "SHORT" position, place the object between the jaws of the Growler and raise object slowly. To Magnetize tools or other objects, connect the parallel blades of the power cord to a 12 volt DC, 6 amp battery charger, place the object across the jaws, then turn on the power and strike the object sharply with a hammer or mallet.

Note: Dirt and moisture between the commutator and on the insulator surface can cause grounding and make the lamp dim. If grounding was indicated, carefully clean all dirt and then recheck it. Replace the armature if it is grounded and unrepairable.

The "Short" Test:

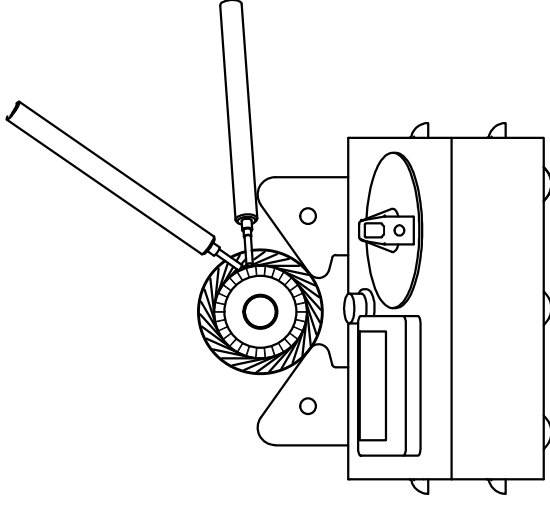
- 1-Turn the selector switch to "SHORT" position.
- 2- With armature installed in growler and power on, hold hacksaw blade parallel with and touching armature core segment as shown.
- 3-Rotate armature slowly one or more revolutions. If hacksaw blade vibrates, armature is shorted. Replace armature.

HACKSAW BLADE



The "Open" test:

- 1-Turn the selector switch to "VOLTS HI" and rotate the armature slowly.
- 2-As each coil comes in position between the pole pieces, touch the corresponding commutator bar with one test prod and the adjacent bar with the other prod. Watch the meter and if it reads "Low", turn the selector switch to "VOLTS LOW".
- 3-No readings on the meter indicates broken winding or open coil. If coils are OK, the meter readings should remain the same for each coil as the commutator is rotated.
- 4-Assuming the first coil tested is OK, a lower meter reading, while testing the other coils, would indicate an insufficient number of turns. A higher reading indicates there are too many turns in the coil.



CAUTION: DURING THIS TEST THE PRODS HAVE A VOLTAGE POTENTIAL APPLIED WHICH COULD CAUSE A SHOCK.