



# LAYCOCK SYSTEMS, INC.

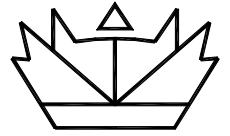
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**LAYCOCK  
MOTOR  
WINDING  
TOOLS**

**CROWN  
MOTOR  
REPAIR  
TOOLS**

## INSTRUCTIONS FOR INTERNAL/EXTERNAL HAND GROWLER CROWN MODEL 2530 (115VAC) & 2533 (230VAC)

### ATTENTION

Use only on power supply of correct voltage and frequency as indicated on the nameplate.

### PURPOSE

The Crown Growler Model 2530 and 2533 are designed to test for "short" circuits in armatures from 6" up to 12" in diameter, and stators from 2-1/2" to 12". The Growler consists essentially of a primary coil and a portion of the iron of a transformer. The iron of the armature under test completes the magnetic circuit. When an alternating current is passed through the Growler primary circuit, it sets up an alternating magnetic field around the armature or stator, reproducing the approximate magnetic effect under which it operates when assembled in a motor.

### TESTING

#### THE "SHORT" TEST:

The most common way of using the Growler is the so-called "feeler" method, in which the feeler is a hacksaw blade, or thin strip of steel. The Growler should be placed in the stator iron and the armature slowly rotated by hand with the feeler held just opposite the slots in the armature or stator. If the coil is short circuited, the feeler will stick and vibrate. If coils are not short circuited, no pull will be felt on the feeler. This action is quite evident and positive, so that with a little practice, short circuits are recognized quickly.

### MAINTENANCE and STORAGE

When not in use, store unit within a plastic bag.

### WARRANTY

Crown's Motor Repair Equipment is warranted to the original owner against defects in materials and workmanship for ninety (90) days from date of purchase. Any part found to be defective (except by overloading, misuse, neglect, fire, accident, tampering with by unauthorized serviceman, or other cause beyond the manufacturer's control), will be replaced or repaired free of charge.

### CROWN MODEL 2530 and 2533

| Model #      | Description   | Quantity | Current Price   |
|--------------|---|----------|-----------------|
| 2530 or 2533 | Hand Growler, 2530 (115VAC), 2533 (230VAC), 50/60Hz, 1-ph | 1        | Contact Factory |
| N/A          | Packaging and Handling                                    | 1        |                 |

PARTS LIST  
CROWN MODEL 2530 and 2533  
**MINIMUM NET BILLING OF \$75 PLUS PACKAGING AND HANDLING FEE**

| Item# | P/N     | Description                  | Quantity Req'd | Assy# | Current Assy Price |
|-------|---------|------------------------------|----------------|-------|--------------------|
| 1     | C801006 | Handle                       | 1              | 1     | Contact Factory    |
| 2     | C500027 | Coil 110/115VAC (2530 only)  | 1              |       |                    |
| 2     | C500029 | Coil 220/230VAC (2533 only)  | 1              |       |                    |
| 3     | C800019 | Switch, Pushbutton (NO)      | 1              |       |                    |
| 4     | C809004 | Cord Set, 8-ft               | 1              |       |                    |
| 6     | C800024 | Power Cord Bushing           | 1              |       |                    |
| 7     | C801007 | Screw 10-32x2-3/4" FH MS     | 2              |       |                    |
| 9     | C809005 | Wire Nut                     | 1              |       |                    |
| N/A   | C800035 | Nut 6-32 Hex Cad             | 1              |       |                    |
| N/A   | C801015 | Setscrew, Nylon 3/8"-16x1/2" | 1              |       |                    |
| N/A   | C802018 | Screw 6-32x3/8" RH MS        | 1              |       |                    |
| N/A   | C802049 | Lockwasher #6                | 2              |       |                    |
| N/A   | C809002 | Ring Terminal                | 1              |       |                    |

SPECIFICATIONS FOR INTERNAL/EXTERNAL HAND GROWLER  
CROWN MODEL 2530 (115VAC) and 2533 (230VAC)

Primary Power:

50/60Hz, 1-phase, 115VAC (2530), 230VAC (2533).

Capacity:

Armatures: from 6" to 12" in diameter.

Stators: from 2-1/2" to 12" in diameter.

Construction:

Aluminum handle (encasement).

Hand-held type tester, for internal & external testing.

(Can be used on both armatures & stators).

Used in conjunction with a hacksaw blade or other soft iron material.

Note: also used as a portable demagnetizer.

Accessories:

None supplied.

Spare Parts:

To be recommended upon request. Contact Factory.

Enclosures:

Operating Instructions.