



LAYCOCK SYSTEMS, INC.

1601 North 43rd Street, Tampa, FL 33605

Ph: 813-248-3555 / Fax: 813-242-0514

Email: sales@laycocksystems.com / Web: www.laycocksystems.com

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 warrantied 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.

PARTS LIST

CROWN MODEL 2530 and 2533

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, Push button (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	Lock washer #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.

INTERNAL / EXTERNAL GROWLERS

Models # 2530 & 2533

Are designed to test for "short" circuits in armatures from 6" - 12" in diameter, and stators from 2 1/2" to 12". It is easy to handle and highly sensitive.

"Short" testing is done by the "feeler" method using a hacksaw blade or thin strip of metal. The growler is placed on the stator iron or on the armature and slowly rotated by hand with the "feeler" held opposite the slots in the armature or stator. If a short exists the "feeler" sticks or vibrates.

