



LAYCOCK SYSTEMS, INC.

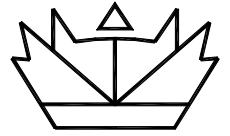
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**LAYCOCK
MOTOR
WINDING
TOOLS**

**CROWN
MOTOR
REPAIR
TOOLS**

INSTRUCTIONS FOR 3-PHASE "LIGHTNING" WINDING HEAD CROWN MODEL 2103

The Crown 3-phase Winding Head will easily and quickly produce precisely shaped mush coil which will readily fit into the stator slots of your motor.

The Winding Head consists of a rigid frame, equipped with 3 pairs of winding arms and fingers, each opposed set of arms moving together from the frame center with a uniform distance of travel, by means of a screw common to each pair, motivated by a crank mounted at the end of each screw. A scale attached to the cross arms indicates, in inches, the dimensions of the new coil desired.

Due to the close tolerances maintained on the adjusting screw and its assembly, there may be some stiffness of operation until the adjusting screw has been thoroughly worked in. Therefore, you will find attached to one of the support arms of this winding head, a large extension crank which will assist in turning the smaller adjusting cranks until the adjusting screw is completely worked in.

Six (6) identical coils may be wound in succession on this head. This set of coils can readily be removed from the winding head, simply by revolving the winding fingers one-half turn. After removing the coils, the winding fingers may be turned back one-half turn to a locked position.

This feature, together with the use of the six (6) guide finger set furnished, permits six (6) coils to be accurately wound to shape.

Correct tension is easily maintained by the use of the usual tension block and by the wire guide. The rigid frame of the winding head, along with the guide fingers, allows a minimum of wire tension to be used in the production of six (6) identically sized coils.

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 2103

Model#	Description	Quantity	Current Price
2103	3-Phase "Lightning" Winding Head (includes an extra Finger Spacer and an Extension Crank)	1	Contact Factory
N/A	Packaging and Handling	1	

PARTS LIST
CROWN MODEL 2103

MINIMUM NET BILLING OF \$75 PLUS PACKAGING AND HANDLING FEE

Item#	P/N	Description	Quantity Req'd	Assy#	Current Assy Price
1	C808000	Baseplate	1	1	Contact Factory
26	C808024	Base Support Tie Rod	2		
27	C808025	Hex Nut, 5/16"-18	6		
28	C808026	Capscrew, 5/16"-18x1-3/8"	1		
32	C808030	Lockwasher, 5/16"	1		
34	C808016	Extension Crank	1		
2	C808001	Main Support Arm	1	2	Contact Factory
5	C808004	Main Finger Support Bracket, R/H thread	1		
6	C808005	Finger Support Bracket, L/H thread	1		
7	C808006	Main Feed Screw	2		
8	C808007	Scale "A"	1		
9	C808008	Drivescrew #00x1/8"	8		
10	C808009	Scale "C"	1		
13	C808012	Bracket	2		
14	C808013	Capscrew, 5/16"-18x3/4"	2		
15	C808014	Crank	2		
16	C808015	Setscrew, 1/4"-20x1/4"	2		
17	C807131	Washer SAE, 5/16"	2		
18	C808017	Collar	4		
25	C808023	Setcrew 1/4"-20x3/8"	2		
30	C808028	Spacer Support Rod	2		
31	C808029	Pin-Drive-Lock, 1/8"x1/2"	2		
32	C808030	Lockwasher, 5/16"	2		
3	C808002	Cross Rod subassy., L/H	1		
4	C808003	Cross Rod subassy., R/H	1		
9	C808008	Drivescrew #00x1/8"	6		
11	C808010	Scale "B"	2		
14	C808013	Capscrew, 5/16"-18x3/4"	4		
15	C808014	Crank	2		
16	C808015	Setscrew, 1/4"-20x1/4"	2		
17	C807131	Washer SAE, 5/16"	2		
18	C808017	Collar	4		
19	C808018	Cross Arm Finger Support Bracket, R/H thread	2		
20	C808019	Cross Arm Finger Support Bracket, L/H thread	2		
21	C808020	End Bracket	4		
25	C808023	Setscrew 1/4"-20x3/8"	4		
29	C808027	Cross Feed Screw	2		
30	C808028	Spacer Support Rod	4		
31	C808029	Pin-Drive-Lock, 1/8"x1/2"	4		
32	C808030	Lockwasher, 5/16"	4		
12	C808011	Screw, Rd Hd, #10-32x7/8"	6	4	Contact Factory
22	C806030	Spring	6		
23	C808021	Finger Spacer	6		
33	C808031	Washer, wrought iron 3/16"	6		

SPECIFICATIONS FOR 3-PHASE "LIGHTNING" WINDING HEAD
CROWN MODEL 2103

Construction: Plated steel main arm and cross arms with aluminum finger spacers and brackets.

Purpose: Winds diamond shaped 3-phase coils. (For motors 1/4HP to 75HP).

Group winding up to six (6) coils.

(Diamond shaped coils tip to tip of 5" to 19-1/2", and widths of 2-1/4" to 11-1/2").

Specifications: Term "Lightning" Head is because of fast set up and coil removal.

Four (4) permanently attached cranks adjust the winding arms in pairs and the upright Fingers in pairs simultaneously. Finger Spacers rotate (lift and turn) on the uprights for ease of coil removal.

Easy to read scales (calibrated in 1/4" increments) for fast and accurate setups.

One (1) extra finger spacer supplied, for use as a wire guide.

One (1) Extension Crank supplied.

Spare Parts: To be recommended on request.

Enclosures: Operating instructions and equipment repair/replacement parts list