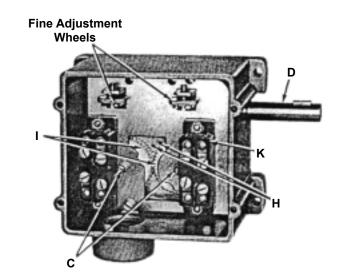
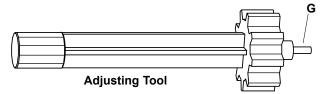
# HUBBELL

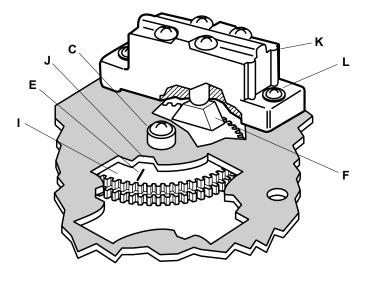
# **Adjustment and Maintenance Instructions**

Workplace Solutions

Standard Dwell Cams with Fine Adjustment Feature—Catalog No. 54BB73 Long Dwell Cams with Fine Adjustment Feature—Catalog No. 54EB73







# Legend

- \*C Cam Screw
- D Drive Shaft
- E Timing Line (Black on white cam for Standard Dwell. While on black cam for Long Dwell)
- \*F Cam
- \*G Adjustment Tool

- H Guide Hole
- \*I Cam Gear Assembly (White for Standard Dwell. Black for Long Dwell)
- J Notch
- \*K Contact Block
- \*L Contact Block Screws

# \*Replacement parts available (consult factory).

### **OPERATION**

Rotation of drive shaft (D) in either direction causes all cam gear assemblies (I) to turn, actuating the contact blocks (K). A timing line appears in the notch (J) when the corresponding contact block is actuated. Cam for each contact block is independently adjustable. Each contact block contains one normally open and one normally closed contact set.



# A

# **WARNING**

Hazardous Voltage. Can cause death, serious personal injury, or property damage.

Disconnect power before working on this equipment.

#### **CAUTION**

When mounting Rotary Limit Switch, align drive shaft (D) with coupling to minimize stress on shaft and bushings. DO NOT USE HAMMER OR SIMILAR TOOL TO FORCE

COUPLING OR SPROCKET ONTO DRIVE SHAFT.

Excessive stress on shaft may result in damage to rotary limit switch and could invalidate warranty.

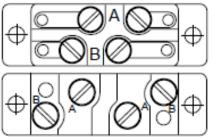
#### **ADJUSTMENT**

- Set fine adjustment wheels at midpoint to allow for further adjustment in either direction.
- Operate the equipment until the desired travel limit is reached, taking into account coasting or braking distance.
- 3. Loosen the screw (C) for the cam wheel which actuates the contact block you wish to adjust.
- Insert the adjustment tool (G) into the guide hole (H) closest to the cam wheel being adjusted. Engage teeth on adjustment tool with teeth on cam wheel.
- Rotate adjusting tool, either direction, until the black line (E) appears in the notch (J). This will be the approximate position at which the contact block will be actuated.
- Tighten the cam screw (C). Avoid over-tightening which could damage screw and screw threads.
- 7. Make fine adjustments by turning fine adjustment wheels by hand.

# **CAUTION**

Terminal of individual snap switch must be wired same polarity.

Contact Block Terminals Viewed from Top A: Terminals N.C. B: Terminals N.O.



# NOTE:

Limit switch may be equipped with contact blocks manufactured by Square D (top) or Micro Switch (bottom). Use drawings at left as quides when wiring.

### **CIRCUIT OPERATION**

Switch	Position of Line* on Cam Gear	
Terminals	Not in Notch	In Notch
A – NC	<del>○    ○</del>	$\bigcirc$
B – NO	$\bigcirc$	<del>0 1 0</del>

<sup>\*</sup>Timing line is black on white standard dwell cam. Line is white on black long dwell cam.

# Replacement Parts Available (Consult Factory)



Contact Block Kit*	Cat. No.
Standard Cam	54BBGB
Long Dwell Cam	54EBGB

<sup>\*</sup>Includes contact block, cam & screw





# **WARNING**

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Disconnect power before working on this equipment.

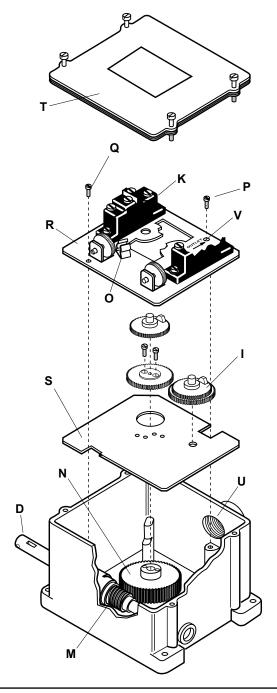
# **CONTACT BLOCK KIT INSTALLATION**

- Remove switch cover (T) and disconnect wiring to contact blocks.
- Remove top plate (R) which is secured by two screws (Q). Top plate screws are also used to attached ground terminal (P) to the top plate.
- 3. Lift out old cam gear assembly (I) and replace with a new assembly.
- 4. Verify that the bottom plate (S) can be easily moved around in the switch housing.
- 5. Place top plate (R) into switch housing with the outlet arrow (V) pointing towards the threaded outlet (U).

# **CAUTION**

To prevent gear (N) from binding, push top plate (R) towards threaded outlet (U) and tighten top plate screws (Q) securely.

- 6. Identify the contact block which corresponds to new cam gear assembly. Remove two machine screws which secure that contact block to top plate.
- 7. Install new contact block and contact block screws.
- 8. Adjust cam gear assembly as outlined on page one (over).
- Connect wiring to new contact block and replace switch cover.



# Legend

- D Drive Shaft Assembly
- I Cam Gear Assembly
- K Contact Block and
- (2) 6-32 x 1/2" screws
- L Contact Block Screw
- M Steel Worm
- N Worm Gear Assembly
- O Adjustment Tool Clip

- P Ground Screw
- Q Top Plate Screws
- R Top Plate
- S Bottom Plate
- T Cover
- U Threaded Outlet
- V Outlet Arrow



Gleason Reel Corp.

600 South Clark Street Mayville, WI 53050 Phone: 920-387-4120 FAX: 920-387-4189 www.gleasonreel.com