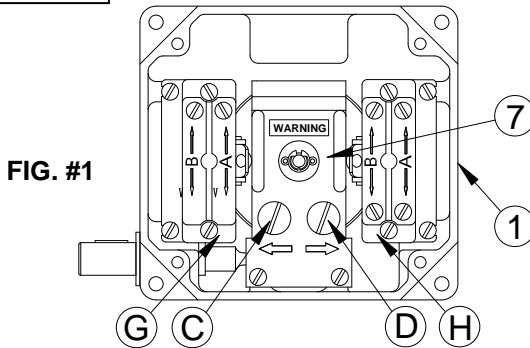


**WARNING:**  
LOOSEN CAM SET SCREW  
BEFORE ADJUSTING OR  
DAMAGE OF CAMS WILL  
OCCUR

Contact positions shown are when  
cams ARE NOT actuating levers.



**DESCRIPTION**

This rotary limit switch is designed to control the limits of travel of rotating reversing equipment.

The limit switch input shaft is connected to a worm gear. Adjustable self lubricating nylon roller-cams are concentrically mounted to the worm gear. These adjustable cams actuate the precision limit switches by utilizing a lever assembly.

**INSTALLATION**

This limit switch may be mounted in any convenient position. When installed, this limit switch will provide long life with a minimum amount of service maintenance.

**The following recommendations will prove helpful:**

1. Install the limit switch so that the shaft load will not exceed (5) five pounds.
2. A flexible coupling is recommended for all installations other than gear drive application.
3. Coupling should be employed in a manner that results in a minimum of thrust loading on the shaft. If switches are mounted with the shaft up or down, some additional thrust loading resulting from the weight of the shaft plus a very light coupling is permissible.
4. Whenever possible, a separate support bearing for the drive sprocket should be used.
5. Permissible speed of the input shaft is 2000 R.P.M.

**LUBRICATION**

This limit switch was lubricated at the factory and should not require lubrication for the life of the switch.

**ADJUSTMENT**

Refer to figure #1. The electrical switch units "G", "H", are shown with the contact positions assumed when the cams ARE NOT actuating the switch units.

When the cam rotates and actuates the switch, the "B" (closed) contact opens and the "A" (open) contact closes. Each precision switch has (1) one independent adjustable cam.

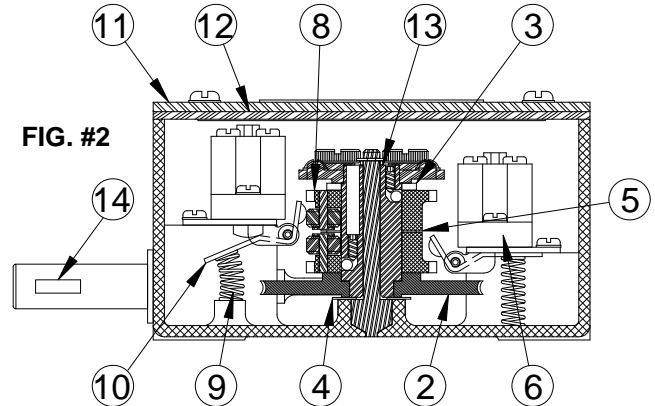
**TO ADJUST SWITCH "G"**

1. Loosen Red Set Screw
2. Turn "C" to Trip "G"
3. Tighten Red Set Screw

**TO ADJUST SWITCH "H"**

1. Loosen Blue Set Screw
2. Turn "D" to Trip "H"
3. Tighten Blue Set Screw

Nominal Input Shaft to Cam Ratio	Turns of Input Shaft			
	Maximum	Minimum	Over Travel	To Reset
5:1	4	1/8	1/8	1/16
10:1	8-1/2	1/4	1/4	1/8
20:1	17	1/2	1/2	1/4
30:1	26	1	3/4	3/8
40:1	35	1	1	1/2
60:1	53	2	2	3/4
80:1	72	2-1/2	2-1/2	1
120:1	108	3	3	1-1/2



**RENEWAL PARTS**

When ordering renewal parts give this form No. PF-046, Item No., Description, Part No., Quantity, and the Complete Unit Number stamped on the label. Reference FIG. #1 and FIG. #2

ITEM	DESCRIPTION	PART NUMBER	QTY
1	Case & Shaft Assembly		1
	5:1 Ratio	PSD-0091300-DN	
	10:1 Ratio	PSD-0091400-DN	
	20:1 Ratio	PSD-0091500-DN	
	30:1 Ratio	PSD-0091600-DN	
	40:1 Ratio	PSD-0091700-DN	
	60:1 Ratio	PSD-0091800-DN	
	80:1 Ratio	PSD-0091900-DN	
	120:1 Ratio	PSD-0092000-DN	
2	Cam Block & Worm Gear Assy.		1
	5:1 Ratio	PSD-0090500-DN	
	10:1 Ratio	PSD-0090600-DN	
	20:1 Ratio	PSD-0090700-DN	
	30:1 Ratio	PSD-0090800-DN	
	40:1 Ratio	PSD-0090900-DN	
	60:1 Ratio	PSD-0091000-DN	
	80:1 Ratio	PSD-0091100-DN	
	120:1 Ratio	PSD-0091200-DN	
3	Shim Cam Block (.080 Thick)	PS-0003300-A	1
4	Shim Cam Block (.020 Thick)	PS-0000800-A	1
5	Shim Cam Block (.016 Thick)	PS-0003200-A	2
6	Limit Switch Standard SPDT	1950-1-B-A-DO	2
	Optional DPDT	1950-4-B-A-DO	...
	Optional SMSB	1950-1408	...
7	Adjusting Bracket Assembly	PSD-0024600-B	1
8	Gear and Roller Assembly	PSD-0090400-A	2
9	Spring Compression	PM-0018000-A	2
10	Lever Assembly	PSD-0024400-A	2
11	Cover	PC-0069100-A	1
12	Cover Gasket	PS-0000900-A	1
13	Spacer Center Post	M-0073000-A	1
14	Woodruff Key (#404)	04-564019-DN	1