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717/721 Display User Guide

Compumotor Division Parker Hannifin Corporation p/n 88-001393-01



7/83

PRELIMINARY OPERATOR'S MANUAL 717/721 DISPLAY

System Description

The Display is a seven digit up/down counter which, when connected to the Compumotor 2100 Indexer, will indicate motor position in steps (or scaled multiples of steps).

The Display consists of seven .3 inch, seven segment, LED displays and one plus/minus display. An optical filter is used to reduce glare and improve contrast of the display. The Display is designed to attach to the top of a Compumotor 2100 Indexer. This combination will fit an E.I.A. standard 19 inch rack with the optional rack mount kit.

The logic includes a switch selectable divide-by-N prescaler, leading zero blanking, and a switch selectable decimal point.

The switch selection of the divide-by-N prescaler is presented in Table 2.1. The switch selection of the remaining options are presented in Table 2.2. Switches are accessed by removing the top cover.

Decimal Point

The position of the decimal point is set with switch group S2, switches I through 4. The switch defines how many digits will be after the decimal. Switch S2-1 "On" will cause I digit after the decimal point (.0). Switch S2-3 and Switch S2-4 control three and four digits respectively after the decimal point. If two or more of these switches are on, the decimal point is turned off. The normal preset mode is S2-3 "On". See Table 2.2.

Overflow and Leading Zero Blanking

Leading zeros to the left of the decimal point will be blanked, except if an overflow condition occurs (more than 9,999,999), the count will continue to count as if there was an eighth digit, and leading zeros will not be blanked. This is the only indication of an overflow condition.

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SWITCH BANK S1

Switch Bank Sl controls the input count prescaler divide-by ratio. By selecting the appropriate 8 bit binary code, the prescaler may divide the input pulse by any decimal value from 1 to 255. The counter is normally preset at the factory with switch bank Sl set to divide-by-25. This allows the indexer software to automatically select either divide-by-25 or divide-by-1.

DIVIDE BY	S1-8	7 6 5	4	3 2	1	COMMENTS
0 1	0	0 0 0		0 0 0 0	0	Invalid Setting l pulse per increment *
2	0	0 0 0	0	0 1	0	2 pulses per increment
3	0	0 0 0	0	0 1	1	3 pulses per increment
4 5 6 7 8 9 10 11	0 0 0 0 0	0 0	0 0 0 1 1 1	0 1	0 1 0 1 0 -1 0	Etc.
24 *25 26 27 28 29 30 31 32 33	0 0 0 0 0 0 0 0	0 0 1 0 1 0 0 1 0	1 1 1 1 1 1 0 0		0 1 0 1 0 1 0 1	
253 254 255	1 1 1	1 1 1 1 1 1 1 1 1	1	1 1	1 0 1	

^{*}Normal Factory Setting

For any other divide-by ratio, \$2-5 must be on and switch bank \$1 must be set to the appropriate divide-by ratio.

0 = Switch Off 1 = Switch On

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SWITCH BANK S2

Switch Bank S2 controls the decimal point position, enables and disables indexer control over decimal point and prescaling, and controls the Up/Down count polarity.

S 2-8	7	6	5	4	3	2	1	Description
x	X	X	X	0	0	0	Q	Not Valid-no decimal point and LS 4 digits do not have leading
x	x	X	A	0	0	0	1	<pre>zero blanking "O Normally preset at the factory</pre>
X	X	X	A	0	0	1	0	"00 Normally preset at the factory
х	X	X	Α	0	1	0	0	.000
Х	X	X	Α	1	0	0	0	.0000
X	X	X	X	В	В	В	В	Decimal point disabled
	X							Indexer enables or disables
x	x	x	1	x	x	x	x	decimal point and prescaler Switch Bank Sl must be set to divide-by 25. Normally preset at the factory. Enables decimal point and pre-
								scaler. User must select decimal point status and prescaler status. (Factory setting).
x	x	0	X	X	X	X	X	Normal up/down count direction. Clockwise motor rotation counts in positive direction. Normally preset at the factory
x	X	1	X	X	X	X	X	Inverts up/down count direction. Counter-clockwise motor rotation counts in positive direction.
				it			ff	<pre>X = Don't Care A = See Note A B = See Note B</pre>

Note A: This is valid if Switch S2-5 is on, or if Switch S2-5 and the indexer has the decimal point enabled. If Switch S2-5 if off and the indexer has the decimal point disabled, no decimal point will be displayed.

Note B: If more than one switch (S2-1, S2-2, S2-3, and S2-4) are on, the decimal point will be disabled. This has priority over switch S2-5 and the indexer.

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Environmental Requirements

Operating Environment

The display will not be affected by any one or any combination of the following conditions during operation:

Temperature: 0°C to 50°C

Humidity:

10% to 90% non-condensing.

Non-Operating Environment

The display will not be affected by any one or any combination of the following conditions during storage or shipment:

Temperature: -30°C to 80°C

Humidity:

10% to 90% non-condensing

Vibration:

Will withstand .02" P-P displacement with frequency varied from 10 to 55 Hz for 15

minutes in each of three axes.

Transporation: Meets limits of NSTC test procedure lA

with a 30-inch drop.

Failure Repair:

Other than the proper setting of the dip switch options, there are no user serviceable parts in the display. Repairs are to be done at the factory level. The only exceptions are repair by Compumotor field service personnel or repair by qualified technical personnel operating under Compumotor instructions.

Display Warning of Limit Switch Encounter

The display will blink on and off if either extreme end of travel limit switch is encountered. It will continue to blink until the limit switch is cleared and the indexer is given a new start command after the direction bit polarity is reversed.

MODEL 717 DISPLAY

INSTALLATION INSTRUCTIONS

FIGURE 1 Model 172 Indexer

- STEP 1. Detach the side plate (A) from the Model 172 Indexer by removing four screws (C).
 - 2. Remove the top cover B by removing two flat head screws

 E and three pan head screws D.

FIGURE 2 Model 717 Display

Step 3. Detach the top cover F from the Model 717 Display by removing two flat head screws J and two pan head screws H.

FIGURE 3 Model 172/717 Assembly

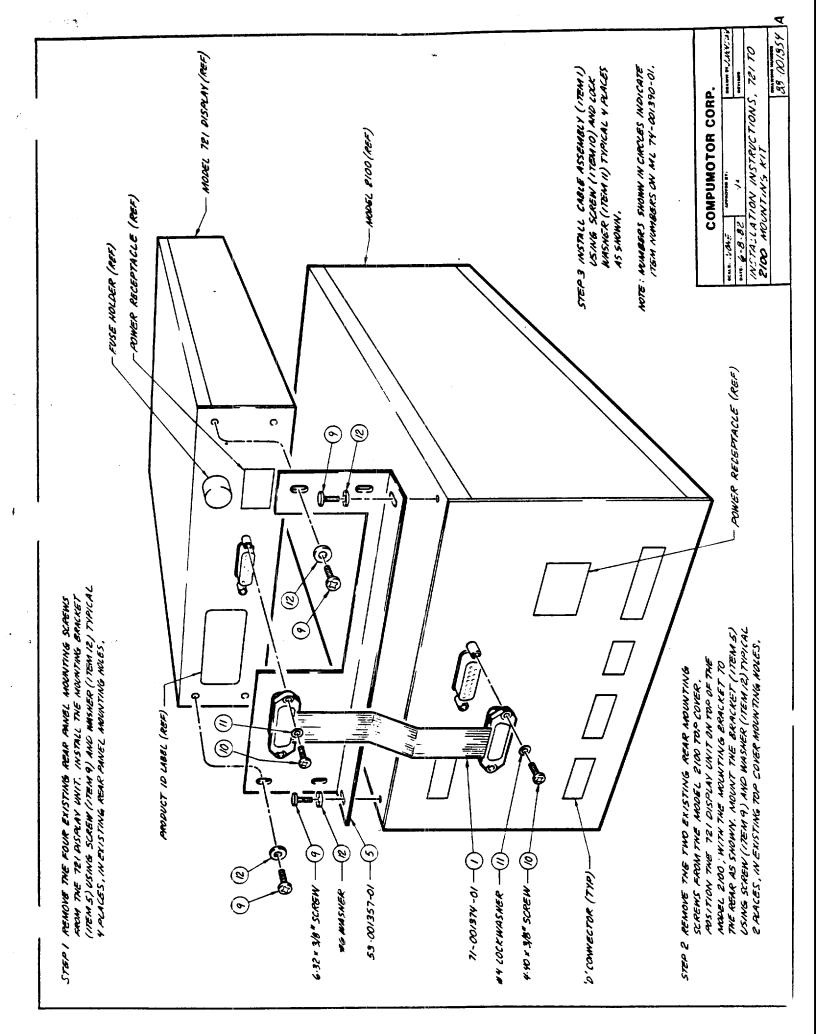
- Step 4. Place Model 172 Indexer next to Model 717 Display. Attach them using four screws (L) (supplied with Model 717 Ship Kit).
 - 5. Plug flat cable assembly (K) into J5 of Model 172 and into J2 of Model 717.
 - 6. Check Model 717 Display DIP switch settings. Model 717 DIP switches are preset at the factory as follows:

								
	1	2	3	4	5	6	7	8
S1	ON	OFF	OFF	ON	ON	OF'F	OFF	OFF
S2	OFF	OFF	ON	OFF	OF E	OFF	OFF	OFF

- 7. Replace Model 172 top cover B using two flat head screws E and three pan head screws D.
- 8. Replace Model 717 top cover (F) using two flat head screws (J) and two pan head screws (H).
- 9. Attach Model 172 side plate \bigcirc to open side of Model 717

LIST OF PARTS
(Referred to in these instructions)

REF. DES.	DESCRIPTION	QTY
A	SIDE PLATE, MODEL 172 INDEXER	. 1
В	COVER, MODEL 172 INDEXER	1
©	SCREW, PHP, 6-32 X 1/4", BLACK	4
D	SCREW, PHP, 6-32 X 1/4", BLACK	3
E	SCREW, FHP, 6-32 X 1/4", BLACK	2
F	COVER, MODEL 717 DISPLAY	1
H	SCREW, PHP, 6-32 X 1/4", BLACK	2
J	SCREW, FHP, 6-32 X 1/4", BLACK	2
K	ASSY, CABLE, 717/172	1
T	SCREW, PHP, 6-32 X 3/8", STAINLESS	4
	(SUPPLIED WITH MODEL 717 SHIP KIT)	



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