

COPY A

BULLETIN 800MR MOUNTING INSTRUCTIONS
PILOT LIGHTS AND ILLUMINATED PUSH BUTTONS

COPY B

MOUNTING INSTRUCTIONS 800MR PILOT LIGHTS AND ILLUMINATED P.B. EXCEPT MUSHROOM HEAD

1. UNTHREAD AND REMOVE MOUNTING RINGS FROM BUSHING
 2. PULL LENS ASSEMBLY OUT OF BUSHING
 3. REMOVE POSITIONING RING FROM BUSHING
 4. FROM TABLE 1 BELOW SELECT THE PROPER COMBINATION OF GASKETS FOR THE THICKNESS OF THE PANEL IN WHICH THIS UNIT IS TO BE INSTALLED. PLACE THEM ON THE BUSHING
 5. INSERT THE BUSHING THRU THE PANEL FROM THE REAR. THE SURFACE MARKED "TOP" SHOULD BE IN LINE WITH THE ANTI-TURN NOTCH IN THE PANEL.
 6. INSTALL THE LEGEND PLATE (OR POSITIONING RING) ON THE BUSHING IN LINE WITH THE ANTI-TURN NOTCH IN THE PANEL.
 7. THREAD THE THIN MOUNTING RING ONTO THE BUSHING AND TIGHTEN TO COMPRESS THE GASKETS AND TO SECURE THE UNIT ON THE PANEL.
 8. PUSH LENS ASSEMBLY INTO BUSHING
 9. THREAD THE TALL MOUNTING RING ONTO THE BUSHING AND TIGHTEN AGAINST THIN MOUNTING RING
- NOTE: TO REMOVE THE ENTIRE UNIT FROM PANEL, REVERSE STEPS 6 THRU 9

MOUNTING INSTRUCTIONS 800MR ILLUMINATED MUSHROOM HEAD DEVICES

1. UNTHREAD TALL MOUNTING RING FROM BUSHING
 2. PULL LENS ASSEMBLY, WITH TALL MOUNTING RING ATTACHED, OUT OF BUSHING
 3. UNTHREAD AND REMOVE THIN MOUNTING RING FROM BUSHING
 4. REMOVE POSITIONING RING FROM BUSHING
 5. FROM TABLE 1 BELOW SELECT THE PROPER COMBINATION OF GASKETS FOR THE THICKNESS OF THE PANEL IN WHICH THE UNIT IS TO BE INSTALLED. PLACE THEM ON BUSHING
 6. INSERT THE BUSHING THRU THE PANEL FROM THE REAR. THE SURFACE MARKED "TOP" SHOULD BE IN LINE WITH THE ANTI-TURN NOTCH IN THE PANEL.
 7. INSTALL THE LEGEND PLATE (OR POSITIONING RING) ON THE BUSHING IN LINE WITH THE ANTI-TURN NOTCH IN THE PANEL.
 8. THREAD THE THIN MOUNTING RING ONTO THE BUSHING AND TIGHTEN TO COMPRESS THE GASKETS AND TO SECURE THE UNIT ON THE PANEL.
 9. PUSH LENS ASSEMBLY, WITH TALL MOUNTING RING ATTACHED, INTO BUSHING
 10. THREAD THE TALL MOUNTING RING ONTO THE BUSHING AND TIGHTEN AGAINST THE THIN MOUNTING RING.
- NOTE: TO REMOVE THE ENTIRE UNIT FROM PANEL, REVERSE STEPS 7 THRU 10

TERMINATIONS

QUICK DISCONNECT TYPE - EACH TERMINAL WILL ACCEPT ONE OR TWO 110" X .032" (18-22 AWG WIRE), OR ONE .250" X .032" (14-16 AWG WIRE), FEMALE CONNECTORS SUCH AS ALLEN-BRADLEY CATALOG NO. 1699-NT2 OR AMP. NO. 42332-2 (SEE ALLEN-BRADLEY PUBLICATION 800M-2.0 FOR A COMPLETE LIST OF RECOMMENDED CONNECTORS)

SMALL SCREW TYPE - EACH TERMINAL WILL ACCEPT ONE OR TWO 16-22 AWG WIRES OR ONE 14 AWG WIRE. STRIP 7/16" (11.0) OF INSULATION FROM END OF WIRE(S). INSERT WIRE(S) IN TERMINAL AND TIGHTEN TERMINAL SCREW SECURELY (6 IN-LBS. (.68Nm) MAXIMUM)

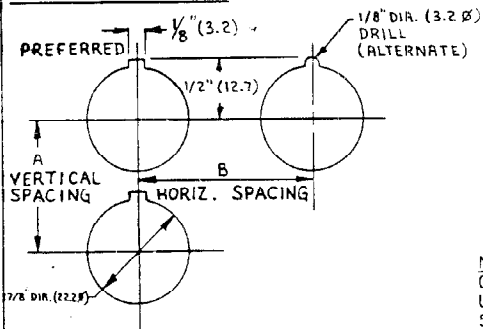
LARGE SCREW TYPE - EACH TERMINAL WILL ACCEPT UP TO TWO 12 AWG WIRES. STRIP 3/8" (9.5) OF INSULATION FROM END OF WIRE(S). PLACE WIRE(S) UNDER PRESSURE PLATE AND TIGHTEN TERMINAL SCREW SECURELY

LAMP REPLACEMENT INSTRUCTIONS

1. UNTHREAD TALL MOUNTING RING FROM BUSHING ON MUSHROOM HEAD DEVICES. THE TALL MOUNTING RING IS CAPTIVE ON THE LENS ASSEMBLY
2. PULL LENS ASSEMBLY FROM BUSHING
3. TO REMOVE THE LAMP, PUSH THE LAMP REPLACEMENT TOOL (END LABELED "REMOVE") OVER THE GLASS PORTION OF THE LAMP AND PULL THE LAMP STRAIGHT OUT. TO INSTALL NEW LAMP, INSERT THE GLASS PORTION OF THE LAMP INTO THE LAMP REPLACEMENT TOOL (END LABELED "INSTALL"). ORIENT THE LAMP IN THE SOCKET AND PUSH IT IN PLACE.
4. PUSH TO SNAP THE LENS ASSEMBLY BACK INTO THE BUSHING.
5. RE-INSTALL THE TALL MOUNTING RING

COPY C

PANEL MOUNTING PLAN

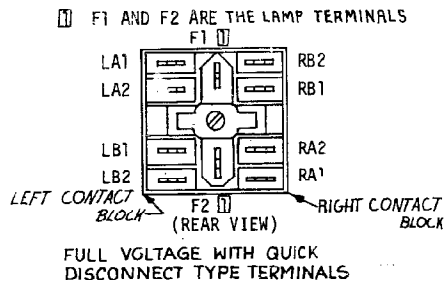
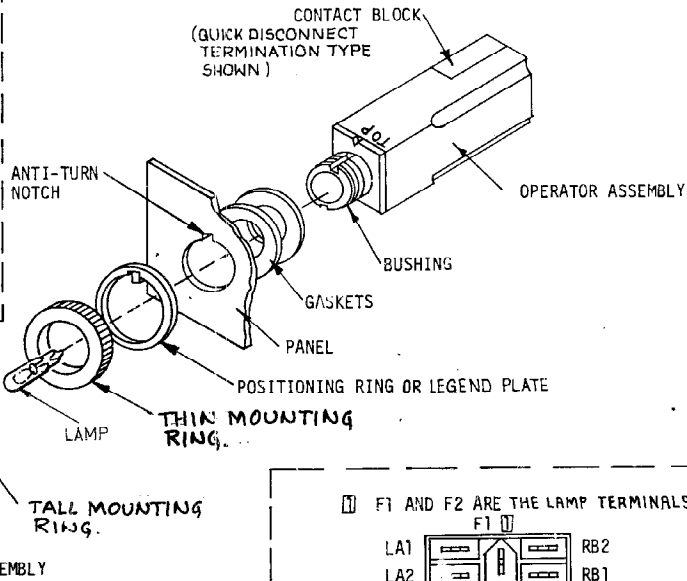
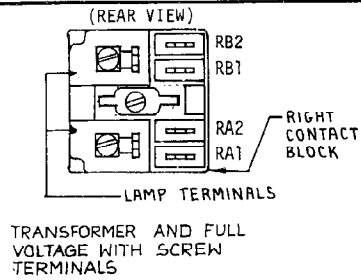


TYPE OF UNIT	A MIN.	B MIN.
ALL BUL. 800MS AND BUL. 800MR WITH STD. LEGEND PLATE	1-1/4" (31.8)	1-1/4" (31.8)
BUL. 800MR WITH LARGE LEGEND PLATE	1-1/2" (38.1)	1-1/4" (31.8)
ALL WITH LARGE SCREW TERMINAL CONTACT BLOCK	1-37/64" (40.6)	1-1/4" (31.8)

NOTE: TO AVOID POSSIBLE EXCESSIVE PANEL HEAT, CLUSTERS OF 9 OR MORE CONTINUOUSLY ILLUMINATED UNITS MOUNTED IN A SMALL ENCLOSURE SHOULD BE SPACED AT 1.5" (38.1) MINIMUM CENTERS IN ONE DIRECTION.

REVISION	DIMENSIONS APPLY BEFORE SURFACE TREATMENT	BULLETIN 800MS AND 800MR		WAS
RELEASE	(DIMENSIONS IN INCHES) TOLERANCES UNLESS OTHERWISE SPECIFIED	PILOT LIGHT AND ILLUMINATED PUSH BUTTON UNITS		ALLEN-BRADLEY MILWAUKEE, WISCONSIN
5 5000-84	2 PLACE DECIMAL (.XX)	CONTENTS FOR INSTRUCTION SHEET		
6 5082-84	3 PLACE DECIMAL (.XXX)	DR. <i>Jim Gagnoli</i>	DATE 10/17/77	SHEET 1 OF 3
REFER. BOOK 40060	ANGLES ±	CHKD. <i>Rich Pluta</i>	DATE 11-17-77	DWG. SIZE B 40060-174
		APPD. <i>Ted Somme</i>	DATE 11-23-77	

COPY D



COPY E

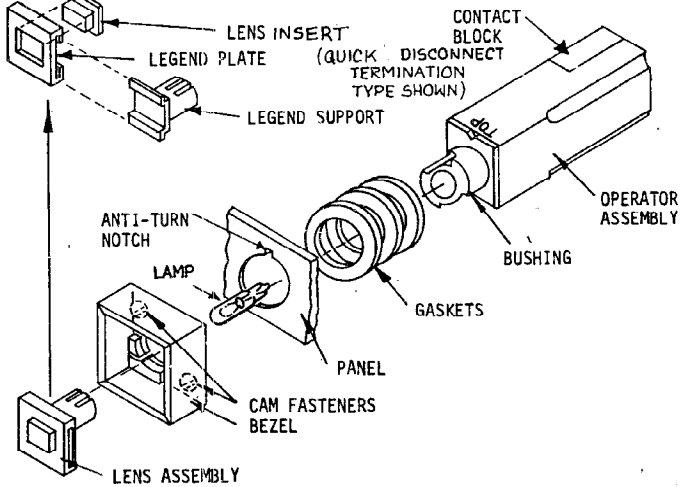
TABLE 1 - NUMBER OF GASKETS REQUIRED

PANEL	.067" (1.7) GASKET (BLACK)	.034" (0.9) GASKET (RED)
1/16" (1.6)	3 PLUS	2
3/32" (2.4)	3 PLUS	1
1/8" (3.2)	3 PLUS	0
5/32" (4.0)	2 PLUS	1
3/16" (4.8)	2 PLUS	0
7/32" (5.6)	1 PLUS	1
1/4" (6.4)	1 PLUS	0

FOR INTERMEDIATE PANEL THICKNESS, USE THE COMBINATION SPECIFIED FOR THE NEXT SMALLER PANEL LISTED ABOVE. PANELS THICKER THAN 1/4" (6.4) MUST BE COUNTERBORED 2" DIA. (50.8Ø) MINIMUM TO 1/4" (6.4).

ACCESSORY ITEM CATALOG NO. 800M-#18 IS AVAILABLE TO INSULATE THE METALLIC PANEL MOUNTING BUSHING, FULFILLING CSA GROUNDING REQUIREMENTS. THIS INSULATION BOOT IS USED IN PLACE OF A BLACK GASKET THEREBY REDUCING THE NUMBER OF BLACK GASKETS REQUIRED BY ONE. ALSO, THE MAXIMUM PANEL THICKNESS IS REDUCED TO 3/16" (4.8) BECAUSE A MINIMUM OF ONE BLACK GASKET IS REQUIRED TO ASSURE AN OILTIGHT SEAL.

COPY F



REFERENCES

BULLETIN 800MS AND 800MR PILOT LIGHT		WAS	
AND ILLUMINATED PUSH BUTTON UNITS		ALLEN-BRADLEY MILWAUKEE, WISCONSIN	
CONTENTS FOR INSTRUCTION SHEET			
DR. <i>for Backpack</i> CHKD. <i>Push Plate</i> APPD. <i>Ted Stamma</i>			
DIMENSIONS APPLY BEFORE SURFACE TREATMENT (DIMENSIONS IN INCHES) TOLERANCES UNLESS OTHERWISE SPECIFIED 2 PLACE DECIMAL (XX) ± 3 PLACE DECIMAL (XXX) ± ANGLES +		DATE 11-17-77	DWG. SIZE B
40050		DATE 11-23-77	40060-174

COPY G

BULLETIN BOOMS MOUNTING INSTRUCTIONS
PILOT LIGHTS AND ILLUMINATED PUSH BUTTONS

COPY H

MOUNTING INSTRUCTIONS

1. REMOVE THE LENS ASSEMBLY (OR LEGEND SUPPORT) BY INSERTING A SCREWDRIVER BETWEEN THE ASSEMBLY AND THE BEZEL AND GENTLY PRY THE ASSEMBLY OUT.
2. IF THE TWO CAM FASTENERS INSIDE THE BEZEL ARE LOCKED, TURN THEM TO THEIR UNLOCKED POSITIONS (SLOPING SURFACES FACING EACH OTHER AND SLOTS IN LINE). PULL THE BEZEL OFF THE UNIT.
3. SELECT THE PROPER NUMBER OF GASKETS FOR THE PANEL THICKNESS AND INSTALL THEM ON THE BUSHING. NOTE: USE ONLY THE COMBINATION OF GASKETS SPECIFIED IN TABLE 1 ON THE OPPOSITE SIDE.
4. INSERT THE BUSHING THROUGH THE PANEL AND SNAP THE BEZEL ON THE BUSHING. THE SWITCH SURFACE MARKED "TOP", THE LOCATOR TAB ON THE REAR SURFACE OF THE BEZEL AND THE ANTI-TURN NOTCH IN THE PANEL MUST BE IN LINE.
5. FASTEN THE UNIT ON THE PANEL BY TURNING THE TWO CAM FASTENERS 180° TO THEIR LOCKED POSITIONS.

CAUTION: THIS STEP MUST BE COMPLETED TO SECURELY FASTEN THE UNIT ON THE PANEL AND TO COMPRESS THE GASKETS BEHIND THE PANEL.

6. ASSEMBLE THE LEGEND PLATE AND LENS INSERT BY PUSHING THE LENS INSERT THROUGH THE HOLE IN THE LEGEND PLATE FROM THE REAR. THEN SLIDE THE LEGEND SUPPORT INTO THE SLOTS IN THE LEGEND PLATE FROM THE SIDE, SO THAT THE PLATE IS CENTERED ON THE SUPPORT.
7. SNAP THE LENS ASSEMBLY INTO THE BUSHING IN THE PROPER ORIENTATION. NOTE: SEE STEP 1 FOR LENS ASSEMBLY REMOVAL, IF REQUIRED.
8. CHECK FOR PROPER INSTALLATION BY PUSHING ON THE LENS ASSEMBLY.

IF THE UNIT IS PUSHED OUT OF THE BEZEL, OR IS LOOSE ON THE PANEL, CHECK FOR THE PROPER COMBINATION OF GASKETS (STEP 3) AND FOR PROPER ENGAGEMENT OF CAM FASTENERS (STEP 5).

ILLUMINATED PUSHBUTTONS OR PUSH-TO-TEST PILOT LIGHTS: IF THE LENS ASSEMBLY DOES NOT RETURN FREELY, CHECK FOR THE PROPER COMBINATION OF GASKETS (STEP 3).

NOTE: TO REMOVE THE ENTIRE UNIT FROM PANEL, REVERSE STEPS 4, 5 AND 7.

TERMINATIONS

QUICK DISCONNECT TYPE - EACH TERMINAL WILL ACCEPT ONE OR TWO .110" x .032" (18-22 AWG WIRES), OR ONE .250" x .032" (14-16 AWG WIRE), FEMALE CONNECTORS, SUCH AS ALLEN-BRADLEY CATALOG NO. 1699-NT2 OR AMP. NO. 42332-2 (SEE ALLEN-BRADLEY PUBLICATION 800M-2.0 FOR A COMPLETE LIST OF RECOMMENDED CONNECTORS).

SMALL SCREW TYPE - EACH TERMINAL WILL ACCEPT ONE OR TWO 16-22 AWG WIRES OR ONE 14 AWG WIRE. STRIP 7/16" (11.0) OF INSULATION FROM END OF WIRE(S), INSERT WIRE(S) IN TERMINAL AND TIGHTEN TERMINAL SCREW SECURELY [6 IN-LBS. (6.8Nm) MAXIMUM].

LARGE SCREW TYPE - EACH TERMINAL WILL ACCEPT UP TO TWO 12 AWG WIRES, STRIP 3/8" (9.5) OF INSULATION FROM END OF WIRE(S). PLACE WIRE(S) UNDER PRESSURE PLATE AND TIGHTEN TERMINAL SCREW SECURELY.

LAMP REPLACEMENT INSTRUCTIONS

1. REMOVE THE LENS ASSEMBLY AS DESCRIBED IN STEP 1.
2. TO REMOVE THE LAMP, PUSH THE LAMP REPLACEMENT TOOL (END LABELED "REMOVE") OVER GLASS PORTION OF THE LAMP AND PULL THE LAMP STRAIGHT OUT. TO INSTALL NEW LAMP, INSERT THE GLASS PORTION OF THE LAMP INTO THE LAMP REPLACEMENT TOOL (END LABELED "INSTALL"). ORIENT THE LAMP IN THE SOCKET AND PUSH IT IN PLACE.
3. SNAP THE LENS ASSEMBLY BACK INTO THE BUSHING.

GENERAL NOTES:

- 1) UNDERLINED WORDS TO BE IN BOLD FACE TYPE. ELIMINATE UNDERLINING FROM PRODUCTION PRINTS.
- 2) THE FOLLOWING NOTE MUST APPEAR AT THE BOTTOM OF BOTH SIDES:
NOTE: DIMENSIONS SHOWN IN PARENTHESES ARE IN MILLIMETERS.

DO NOT WRITE
IN THIS AREA

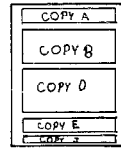
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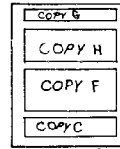
ALLEN-BRADLEY
MILWAUKEE, WISCONSIN
53201-2086

40060-174-01(D)
PRINTED IN USA

-01	D.	TWO SIDES PRINTED BODY STOCK WHITE BODY INK BLACK	10" H x 5" W (FLAT) 1-1/4" H x 5" W (FOLDED)
PART NO.	CHG. LTR.	MATERIAL	FINISHED SIZE



SIDE 1



SIDE 2

COPY SEQUENCE BY ORDER OF IMPORTANCE. VERTICAL AND HORIZONTAL DEVIATIONS ACCEPTABLE.

REFERENCES		BULLETIN BOOMS AND 800MR		WAS	
REVISION	DIMENSIONS APPLY BEFORE SURFACE TREATMENT	PILOT LIGHT AND ILLUMINATED PUSH BUTTON UNITS		ALLEN-BRADLEY MILWAUKEE, WISCONSIN	
RELEASE	(DIMENSIONS IN INCHES) TOLERANCES UNLESS OTHERWISE SPECIFIED	CONTENTS FOR INSTRUCTION SHEET			
5	5000-84	2 PLACE DECIMAL (XX)	DR. Jim Barry	DATE	10/17/77
6	5082-84	3 PLACE DECIMAL (XXX)	CHKD. Paul M... <i>PM</i>	DATE	11-17-77
REFER. BOOK	40060	ANGLES ±	APPD. Ted Stamma	DATE	11-23-77
				DWG. SIZE	B
				40060-174	
				SHEET	3 OF 3