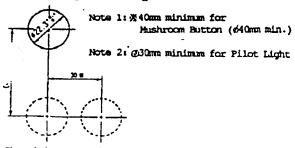
eries Control Units Operating Instructions **HW SERIES CONTOROL UNITS**

Read this operating instructions before using the control units.

Note: For compliance with SEMI S 2 standards, EMOswitches must be mounted between 33 inches and 64.5 inches from ground level.

2. Installation

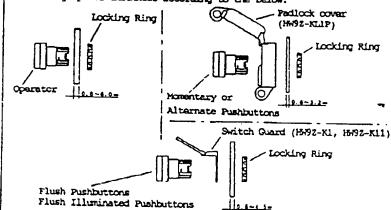
2-1 Mounting Hole Layout



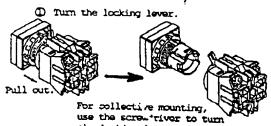
- The minimum mounting centars above are for a one-stack contact block (1 or 2 contacts). When a two-stack contact block or an illuminated unit is used, refer to the DIMENSIONS and determine the minimum mounting centers in consideration of wiring works.
- For Mishroom Button, Selector, and Pushlock Turn Recet types, determine the appropriate minimum mounting centers in consideration of easy operation.

2-2 Mounting Panel Thickness

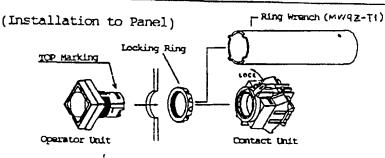
Panel thickness should be between 0.8 and 6.0mm. When optional accessories (padlock cover, switch guard) are used, change panel thickness according to the below.



2-3 Procedures of Mounting to Panel Removing Contact Block)

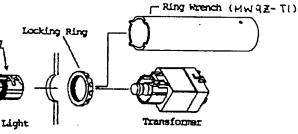


the locking le.er.





TÓP Marking Pilot Light



Notes for Collective Mounting

(Removing Transformer)

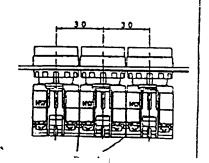
1 Pull up.

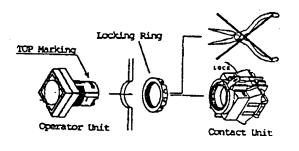
Be sure to use a barrier (optional) to prevent terminal contacts when the control units (except pilot lights) are mounted horizontally with a 30mm mounting center.

For collective mounting,

follow the same procedure.







- Note 1: The tightening torque of locking ring should not exceed 2N·m (20.4 kgf·cm).
- Note 2: Do not tighten the locking ring using a plier excessively.

6. Lens Color

is correct.

Pushbutton

Selector Switch

(Example)

incondescent illuminations.

contact unit shown below.

Illuminated Pushbutton

Illumination color is different in green between LED and

LED illumination: Light Green Incandescent illumination: Dark Green

7. Combination of Contact Unit and Operator Unit Make sure that combination of contact unit and operator unit

Refer to the Type No. Development of assembled unit and

Assembled Unit

HW1L-M122Q7G

HW15-3TJ21N1

Contact Unit Type No. Position

HW18-W211R

Contact Unit

HW-CL22Q7

HW-CB21N1

HW-CB11

3. Button Replacement

When replacing a button, follow the next procedure.

VOL 1

Trd, Equate, Round w/Square Bezel)

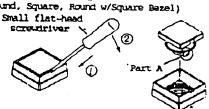


Small or large mushroom button can not be removed from the operator unit of Pushlock-turn switch. Lever, knob cannot removed from the operator unit of selector switch.

. Lens & Marking Plate Replacements

4-1 Lens Unit Replacement

(Round, Square, Round w/Square Bezel)



(Note 1) Do not insert the screwdriver deep into the recess of the lens because

the waterproof packing may be damaged.
(Note 2) When installing the lens unit to the operator unit, set the part A of lens holder to the TOP side of the unit.

ens Replacement

(Round, Square, Round W/Square Bezel)



Lens Holder

Marking Plate

Note: The filter in the lens holder cannot be removed because this filter is sealed to make the unit waterproof and oiltight.

(Small or Large Mushroom)

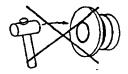




4-3 Combination Procedure

	Built-in Marking Plate	Applicable Marking Film
Acute W. Square	I Lons Holder	Film
	Ions Ions Holder Marking Plate	Fi Ju
	Note: Pay attention to the orientation of marking plate.	

. Be sure to use your hand for he dling control units.



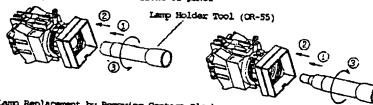
Note 1: For illuminated pushbuttons and pilot lights, legends and symbols can be engraved on marking plates, or printed mylar can be inserted under lens for labelling purposes.
Note 2: For details on marking plate and film, see the catalog

Note 3: Marking film can not be inserted for small or large illuminated mushroom buttons.

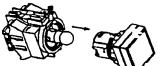
8. Lamp Replacement

Lange can be replaced using the lamp holder tool from the front of the panel Also by removing the cantent block from the operator unit, the lamp can be removed. Turn the power off before replacing the lamps.

Lamp Replacement from the front of panel



Lamp Replacement by Removing Contact Block contact block without using the lamp holder tool.



 Lamp Replacement by Removing Transformer (for pilot light The lamp can be replaced by removing the transformer without using the lamp holder tool