Wattstopper®

DLM GE SWS or TLC Relay to LMCP Retrofit Kits

No: 24813 – 11/23 rev. 2

Installation Instructions • Instructions d'Installation • Instrucciones de Instalación

Catalog Numbers • Les Numéros de Catalogue • Números de Catálogo: LMCP-GE24/LMCP-GE48

Country of Origin: Made in China • Pays d'origine: Fabriqué en Chine • País de origen: Hecho en China

LMCP-GE24 RETROFIT KIT INSTALLATION

Step 1: Remove all interior components leaving relays and power supply only.

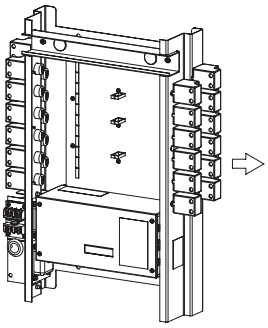


Fig. 1: Example GE24 panel assembly

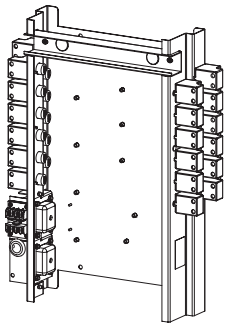


Fig. 2: After removing interior items

Step 2: Remove LMRD cards from adapter plate.

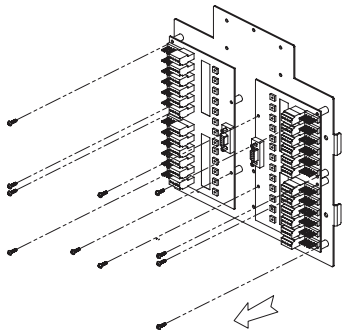


Fig. 3: Remove LMRD

Step 3: Install LMRD adapter plate.

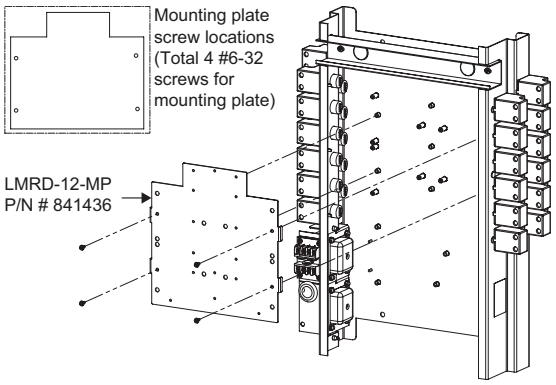


Fig. 4: Install LMRD adapter plate

Step 4: Install LMRD and LMPI cards.

CAUTION: Do not overtighten screws.

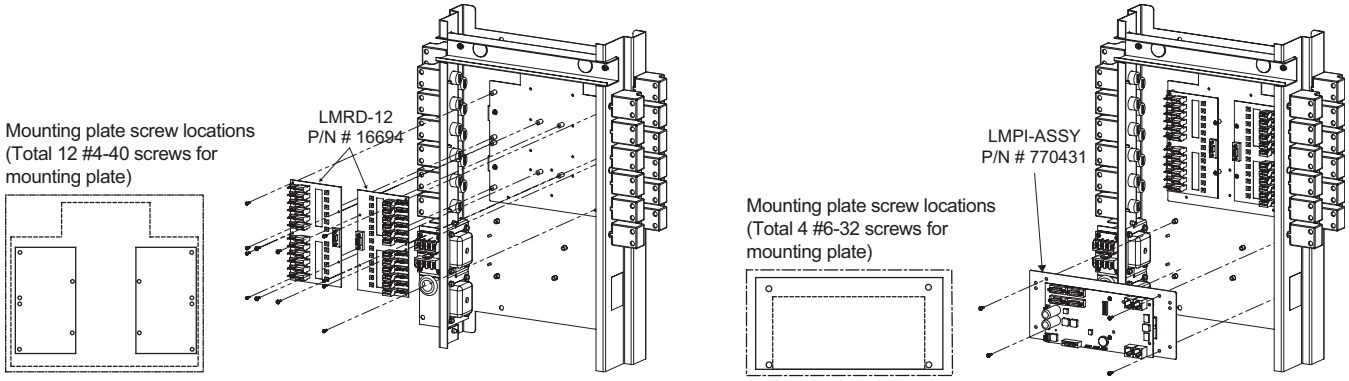


Fig. 5: LMRD and LMPI mounting details

Step 5:

- Connect LMRD card to LMPI.
- Connect relays to LMRD card.
- Connect power to LMPI.
  (See **Relay Connection Details** for DIP Switch settings.)

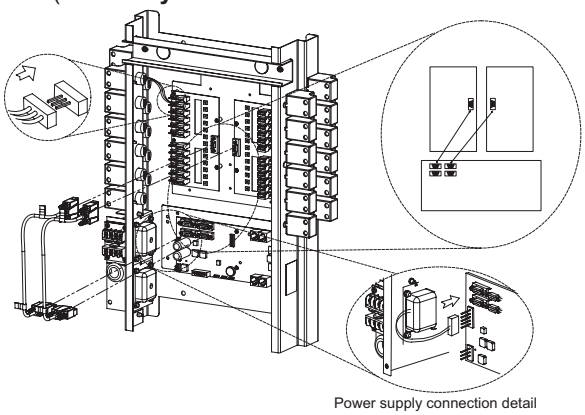


Fig. 6: Connection details

Step 6: Apply upgrade label.

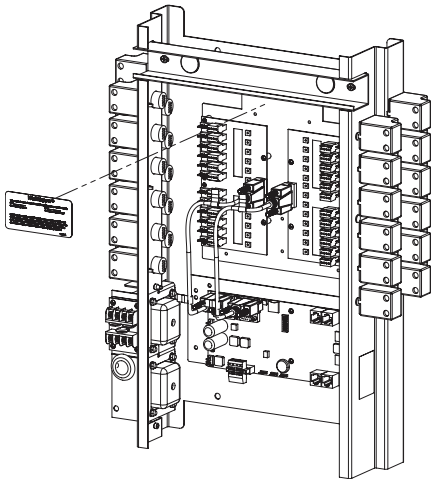


Fig. 7: Label location suggestion

Step 1: Remove all interior components, leaving relays and power supply only.

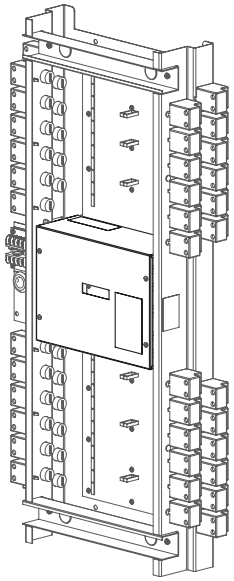


Fig. 8: Example GE48 panel assembly

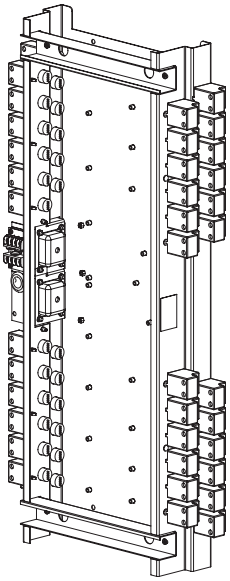


Fig. 9: After removing interior items

Step 2: Remove LMRD cards from adapter plate.

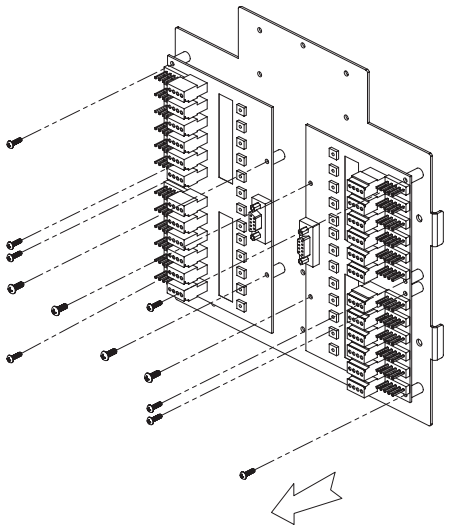


Fig. 10: Remove LMRD

Step 3: Install adapter plate.

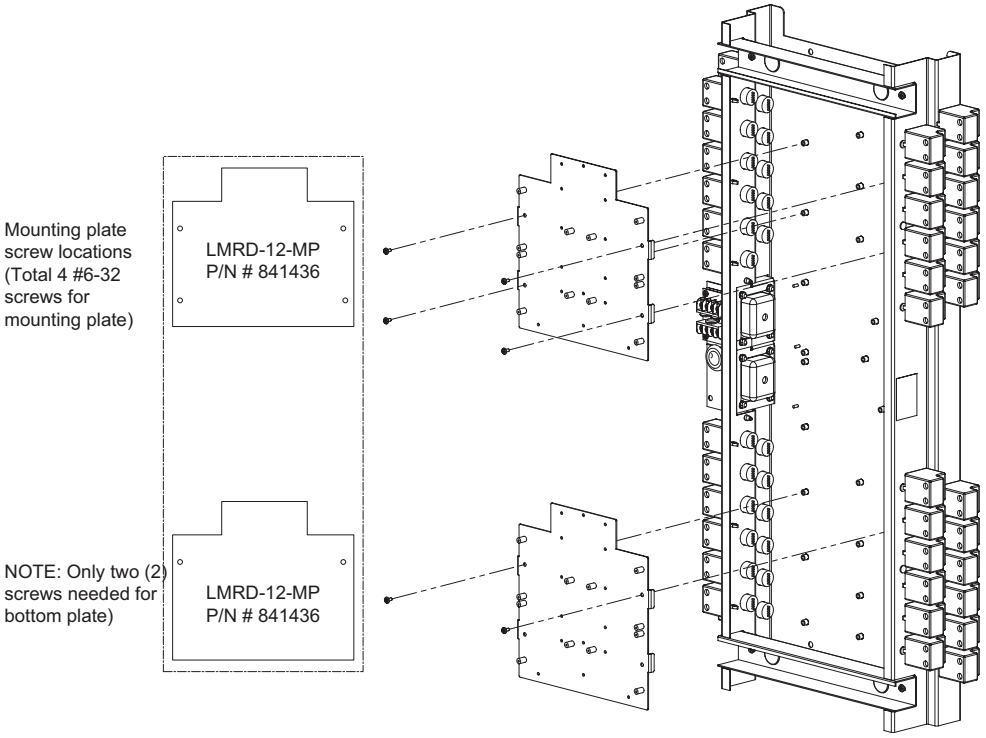


Fig. 11: Adapter plate mounting detail

Step 4: Install LMRD and LMPI cards.

CAUTION: Do not overtighten screws

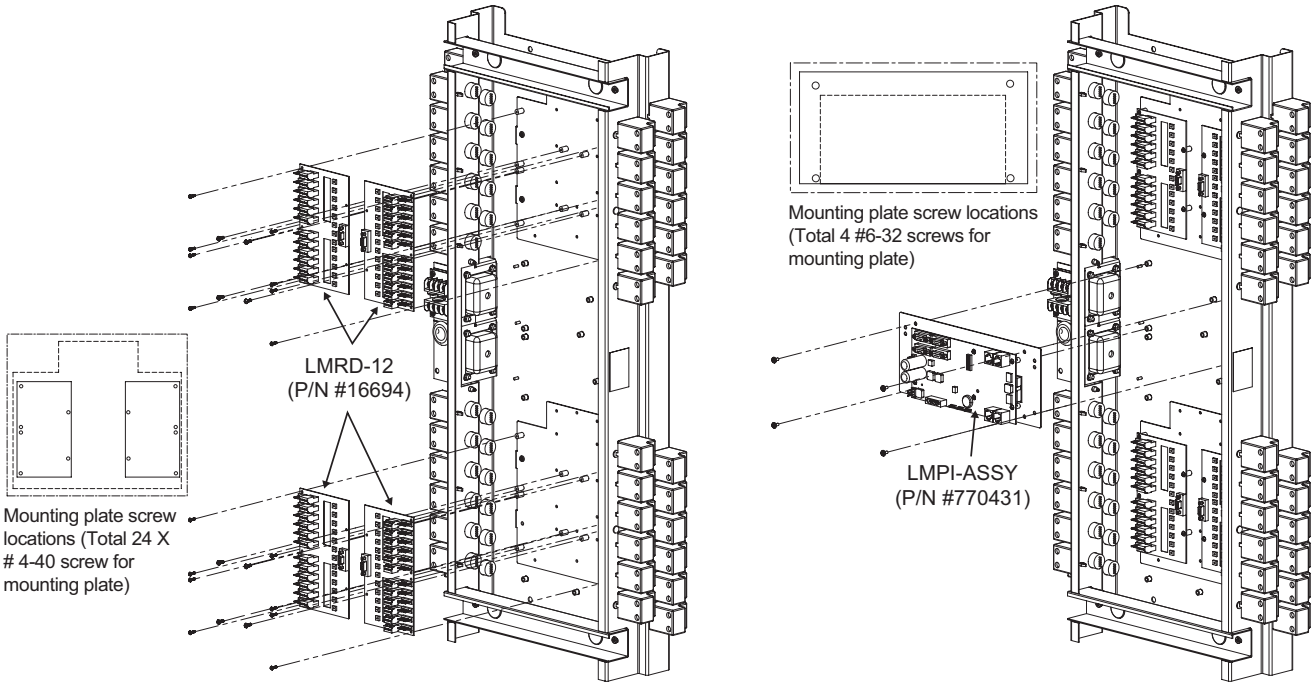


Fig. 12: Mounting detail

Step 5:

- Connect LMRD to LMPI.
- Connect relays to LMRD card.
- Connect power to LMPI.
  (See **Relay Connection Details** for DIP Switch settings.)

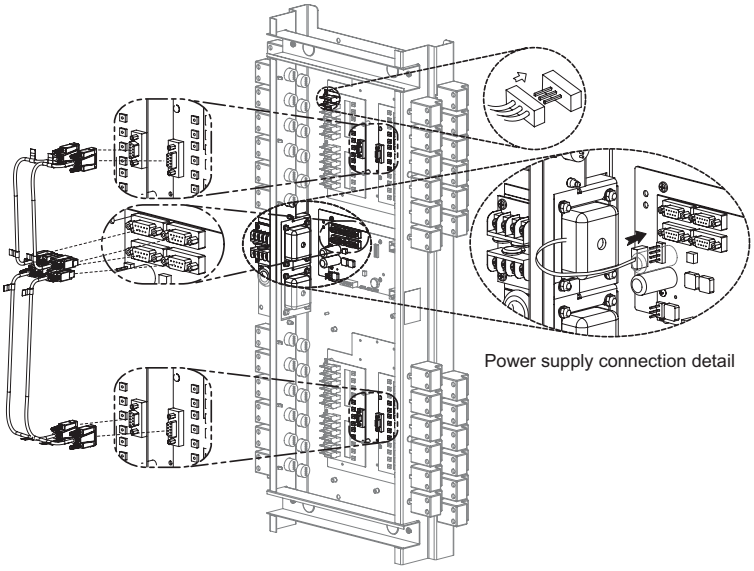


Fig. 13: Connection details

Step 6: Apply upgrade label.

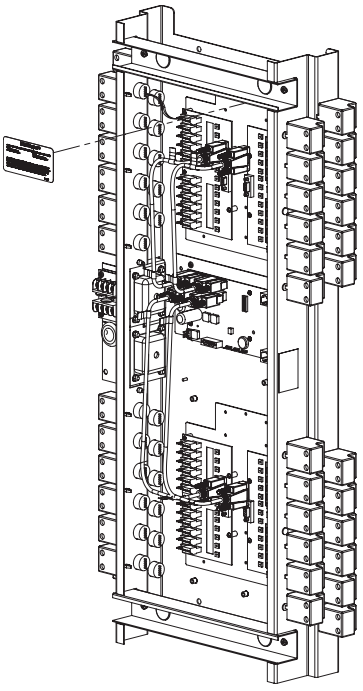


Fig. 14: Label location suggestion

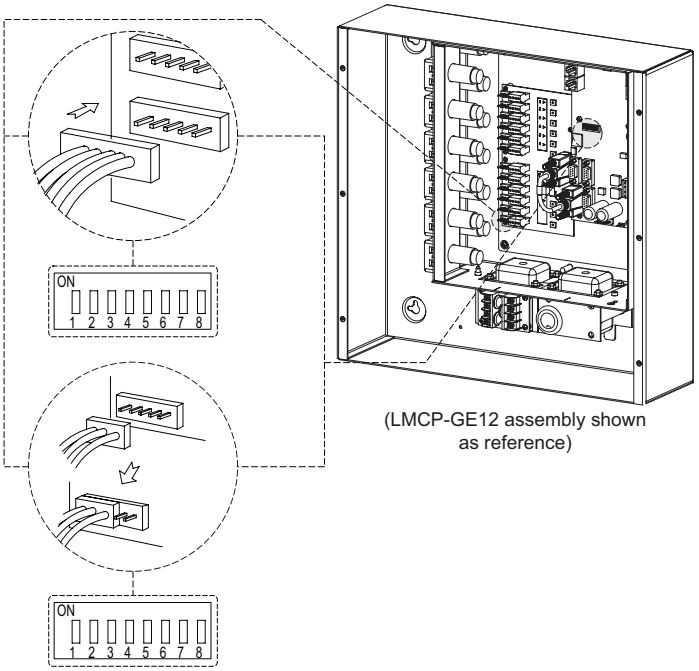
RELAY CONNECTION DETAILS

Option 1:
5-pin connector

DIP Switch	Setting
1, 2, 3, 4, 6	Reserved (OFF)
5	ON (for GE relays) OFF (for HDR relays)
7	ON: Relays ON/OFF during PnL OFF: Only pilot LEDs ON/OFF during PnL
8	ON: Pilot LEDs follow logic OFF: Pilot LEDs follow Pilot

Option 2:
3-pin connector (no pilot)

DIP Switch	Setting
1, 2, 3, 4, 6	Reserved (OFF)
5	ON (50 ms pulse width)
7	ON: Relays ON/OFF during PnL OFF: Only pilot LEDs ON/OFF during PnL
8	ON



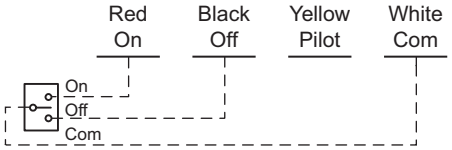
(LMCP-GE12 assembly shown as reference)

RETROFIT LOW VOLTAGE SWITCH WIRING CONVERSION

Existing low voltage switches may be converted for operation with the LMCP retrofit panel. Retrofit panel input terminals are limited to toggle operation only. Any existing ON or OFF buttons wired to LMCP terminals will operate as toggle buttons. If this is unacceptable, use the LMIN-104 DLM Low Voltage Input Module for wiring conversions, which supports many input operations including ON-only and OFF-only. See LMIN-104 product documentation for more details.

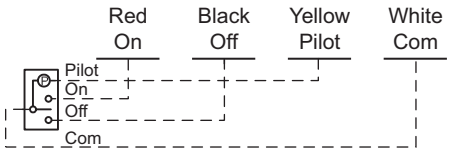
NOTE: Prior to converting for operation with the DLM system, any existing switch wiring must be verified to not run with line voltage wiring. Line voltage wiring can magnetically couple voltage onto low voltage wiring and will cause improper operation.

Existing Panel Wiring Options



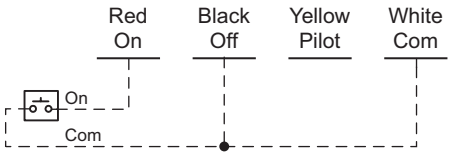
3-Wire Momentary w/o Pilot

LV Switch to Single Relay terminal. If multiple relays controlled, use wiring to an LMIN-104 instead

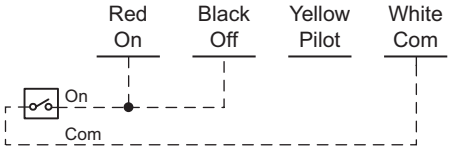


3-Wire Momentary w/ or w/o Pilot

LV Switch to Single Relay terminal. If multiple relays controlled, use wiring to an LMIN-104 instead

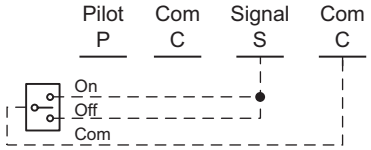


2-Wire Momentary



2-Wire Maintained

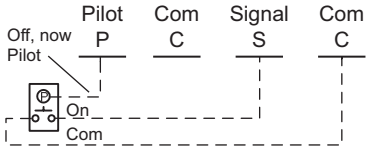
Converted LMCP Retrofit Wiring



3-Wire Momentary w/o Pilot

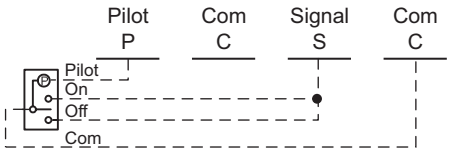
On and Off wires now commoned together (at switch or in panel) and landed on the "S" terminal

OR



Replacement 2-Wire Momentary w/ Pilot (Ex: LVSW-10x)

On wire used for Momentary contact, but Off wire now being used as Pilot



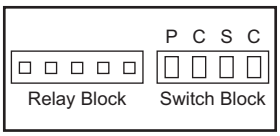
3-Wire Momentary w/ or w/o Pilot

On and Off wires now commoned together (at switch or in panel) and landed on the "S" terminal

2-Wire Momentary

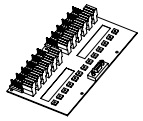
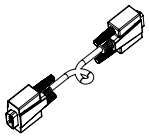
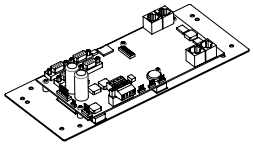
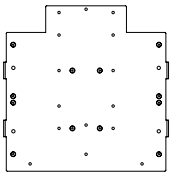
LMCP Panels cannot accept Maintained switches. Add an LMIN-104 and use wiring diagrams as described in LMIN -104 installation instructions.

LMRD Board
Relay & Switch Terminals



NOTE: Wiring shown is applicable to ON/OFF retrofit panels only. 0-10V retrofit options are not available, nor is wiring shown compatible with 0-10V LMCP panel relay cards.

PARTS LIST

Part	Description	Part Number	Quantity		Part	Description	Part Number	Quantity	
			GE24	GE48				GE24	GE48
	LMRD-12	#16694	2	4		Cable Assembly	#841449	2	4
	LMPI-ASSY	#770431	1	1		Screw #6-32 L=5/16	#17686	8	10
	LMRD-12-MP	#841436	1	2		Screw #4-40 L=3/8	#03336	12	24

* SWS and TLC are products and property of General Electric (GE).

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