

Warning:

- Read instructions carefully before attempting to install fixture.
- Retain instructions for future reference.
- When opening boxes, verify that materials match packing slip. Please call your agent or distributor if there is any discrepancy of materials.
- Install in accordance with NEC2008 article 410.11 and your local electric code. See page 2 for lamp chart and mounting positions.
- This product must be installed in accordance with the applicable local, state, and national electrical codes by a licensed person familiar with the construction and operation of the product and the hazards involved.
- Make sure all electrical power is turned off while installing the fixture.
- This fixture must be adequately grounded for protection against shock hazards and to assure proper operation.
- External parts of fixture develop high operating temperature. To avoid pain or injury, do not touch external parts of fixture when it is in operation.
- Disconnect power before servicing.
- Always use correct lamp type and wattages.

Step 1: To determine location of mounting clips, place track along cove area, cut and bend as required. Note: CVH track is rigid and does not bend.

Step 2: Place mounting clips (CVMC) approximately 12 inches, on center. Attach using #6 flat-head screws. Tighten screws making sure screws are flush or lower than top of mounting clip.

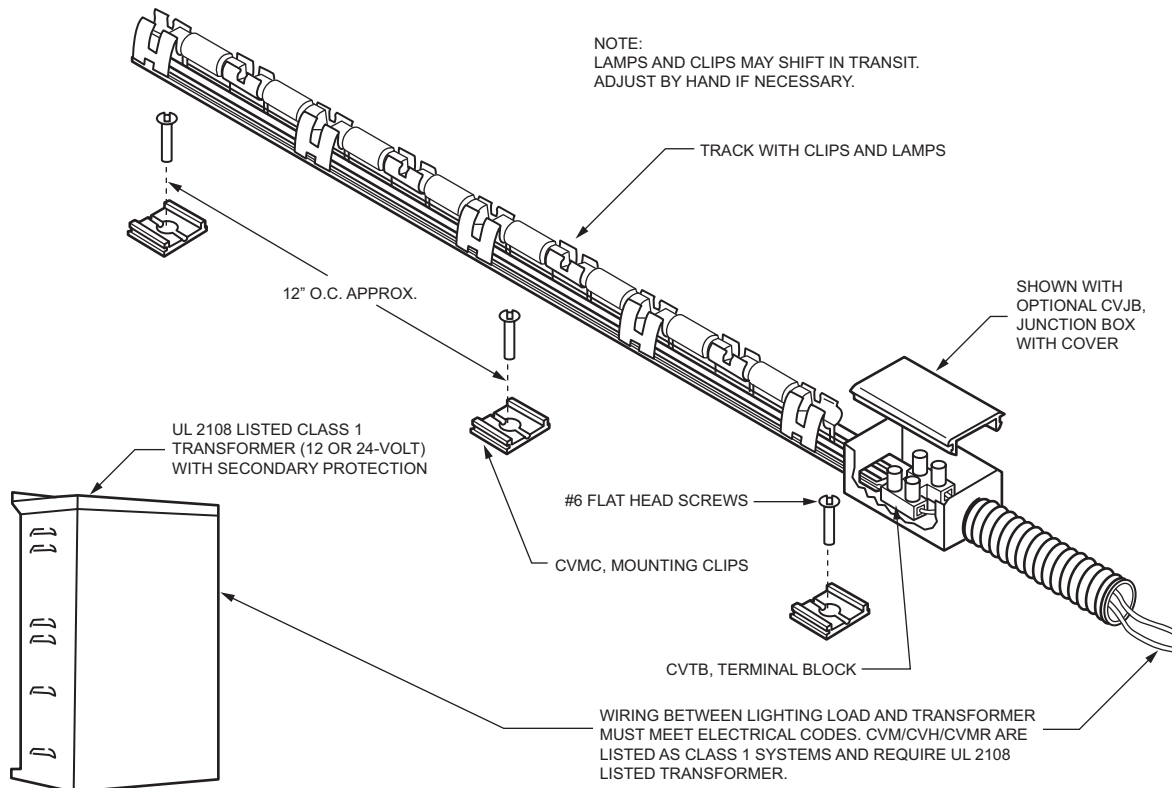
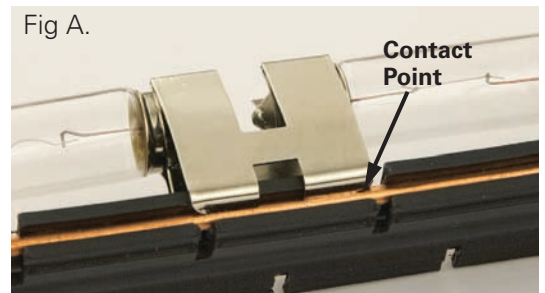
Step 3: Visually inspect track to ensure that proper contact exists between lampholders and copper wiring (Fig. A).

- If a lampholder loses contact with copper wire, use a putty knife or flat, wide piece of metal with a hammer to move holder back into place.

Step 4: Snap track into mounting clips.

Step 5: Connect low voltage power to terminal block or optional junction box (CVJB) and replace cover. The system may be 12- or 24-volts. **Refer to packing slip to confirm system voltage.**

Step 6: Verify that voltage load at terminal block does not exceed system load (12V or 24V depending on system). If load is more than system is specified to handle, it is strongly recommended that a dimmer be installed.



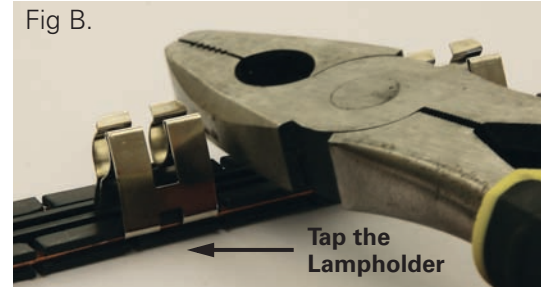
Warning:

- Low voltage circuits must be overload protected. Power supplies require secondary protection with circuit breakers or fuses sized for the load, product is listed for UL 2108 listed Class I power supply with secondary protection.
- Maximum load of track is 20 Amps. De-rate as required by code.

CVMR System (12V only):

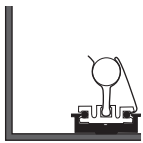
Step 1: Insert CVMR11/CVMR16 module(s) into lampholders.

- When using CVMR11/CVMR16 modules in conjunction with festoon lamps be sure to stay within established system limits as noted on packing slip. **Note: Maximum system wattage is 225-watts.**
Example: One (1) 50-watt MR16 = Ten (10) 5-watt festoons.
- If lamp spacing adjustments are needed, use a screwdriver or pair of pliers to lightly tap to move into desired position (Fig. B).



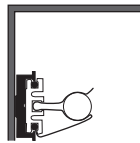
MOUNTING POSITIONS

UP



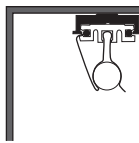
5W, 10W, MR11, MR16

SIDE



5W, MR11, MR16

DOWN



5W, MR11, MR16

Warning: Operating incandescent lamps over the rated voltage will reduce lamp life dramatically.

OVER-RATED BULB VOLTAGES (100% >)

VOLTS %	AMPS %	MSCP %	LIFE %
100	100	100	100
101	100.5	103.5	88.7
102	101.1	107.2	78.8
103	101.6	110.9	70.1
104	102.2	114.7	62.5
105	102.7	118.6	55.7
110	105.4	139.6	31.9
115	108.0	163.1	18.7
120	110.5	189.3	11.2
125	113.1	218.4	6.9
130	115.5	250.5	4.3

EXAMPLE

A lamp designed to operate at 24-volts, that is actually operated at 103% of the design voltage or 24.72 volts, will reduce the average lamp life to 70.1% of the rated life.

NOTE

Voltage fluctuations, vibrations and excessive heat will also reduce the average lamp life.

LAMP LIFE DEFINITION

As an industry standard guideline, the "Rated Lamp Life" of incandescent lamps is the point at which 50% of an infinitely large sample group of lamps will have failed.

Under laboratory conditions, "Rated Lamp Life" does not mean that every lamp will burn the listed number of hours. Failures can be expected to begin as early as 30%-40% of the "Rated Lamp Life" and will increase in frequency until half of the lamps have failed when the "Rated Lamp Life" is reached. The remaining lamps will fail at some point beyond the "Rated Lamp Life".