

SlotLine & SlotLine Pro

CONTINUOUS LINE OF LIGHT LED ACCENT LIGHTING SYSTEM
24VDC REMOTE POWER SYSTEM

INSTALLATION INSTRUCTIONS

Ratings, Hardware and Warning.....	Page 1
Surface Mount & Recessed (no trim) Mounting Channel Installation.....	Page 2-3
Recessed (with trim) Mounting Channel Installation.....	Page 4-5
Mud-In Mounting Channel Installation.....	Page 6-8
Light Engine Preparation for Turns and Corners.....	Page 9-10
Light Engine Installation.....	Page 11
Lens Installation.....	Page 12

IMPORTANT:

Before installing SlotLine be sure to install Tempo Surge Suppression Device (SSD-120/SSD-277) to every branch circuit to validate warranty.

ELECTRICAL RATINGS

SlotLine is a Low Voltage system operating on Class II, 24VDC power supplies.

REQUIRED HARDWARE

- 1) Surge Suppression Device (SSD-120 or SSD-277).
- 2) 24VDC Power Supply.
- 3) Power/Jumper Feed Cable.
- 4) Mounting Screws

OPTIONAL HARDWARE

- 1) Jumper Feed Cable.
- 2) Power Enclosure for LED Drivers.
- 3) Additional Wire for extra long leads or jumpers

TOOLS REQUIRED:

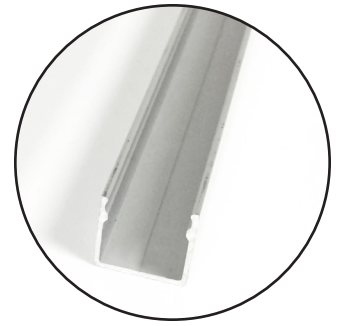
- 1) Laser Level
- 2) Power tools
- 3) Hand tools
- 4) #26 drill bit
- 5) 82° 3/8" countersink bit (Mud-In only)
- 6) PVC Ratchet Cutter



WARNING:

Read and understand these instructions before installing. This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved. Turn off main power supply before you start installing SlotLine.

SLOTLINE INSTALLATION INSTRUCTIONS



SURFACE MOUNT AND RECESSED (NO TRIM)

IMPORTANT:

If angle cutting for 90° turns, T & X sections and corners, refer to SlotLine Angle Cut Instructions before proceeding to steps below.

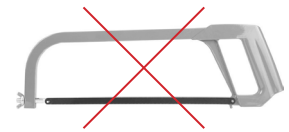
STEP 1

Cut aluminum Mounting Channel to length:

The Mounting Channel ships in 8 foot lengths that are field cut to length as needed with Miter Saw or Circular Saw using blades made for cutting aluminum. It is not recommended to cut with a hand saw. Deburr all edges after cutting.

NOTE: Allow 1 inch for attachment of feeder box at beginning of run (and end of run if using jumper feeds.)

Example: Extrusions for single 12 foot run will be cut to 12 feet but allow one extra inch of space at start of run for Feeder Box.



Hand Saw Not Recommended

STEP 2

Attach Feeder Box and End Cap:

Insert supplied Feeder Box into first extrusion of run and use pencil or felt tip pen to mark thru hole location for feeder box screw (**Figure 4**).

Drill #26 (.147") hole in mounting channel for Feeder Box mounting screw and deburr edges. Attach Feeder Box to Mounting Channel with supplied 4-40 mounting screw through the back side of Mounting Channel (**Figure 5 & 6**). Repeat process to attach end cap to last extrusion of run.

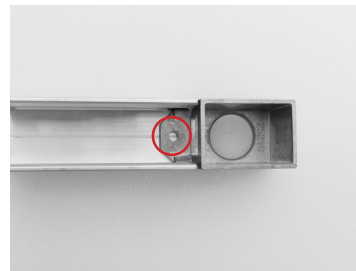


Figure 4

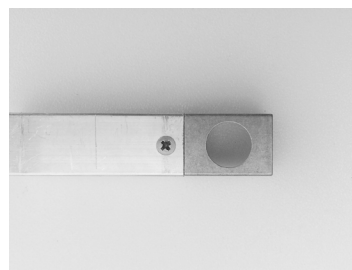


Figure 5

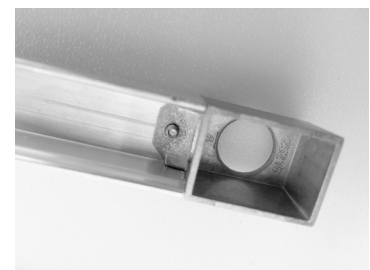


Figure 6

STEP 3

Drill Pilot Holes in Mounting Channel:

Using a #26 (.147") drill bit, drill pilot holes in Mounting Channel where needed to attach Mounting Channel to surface (**Figure 7**).

There is a groove down center of each Mounting Channel to help start the drill bit in center of channel.



Figure 7

SLOTLINE INSTALLATION INSTRUCTIONS

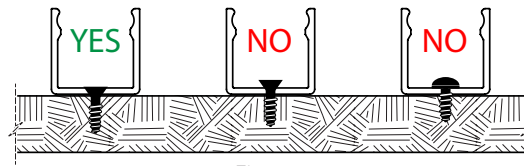
SURFACE MOUNT AND RECESSED (NO TRIM)



STEP 4

Install Mounting Channels:

Attach Mounting Channel to surface using #6 Phillips bugle head screws. Tempo supplies screws for wood, metal and drywall applications. If surface is not one of these materials, make sure the screws used are #6 bugle head as these type screws will sit flush with surface of Mounting Channel without the need to countersink holes.



IMPORTANT NOTE: If bugle head screws are not available you will need to countersink the holes so screw head sits flush in bottom of Mounting Channel. If the screw head projects more than 1/16" above, then the light engine will not seat properly into the bottom of channel. (Figure 8)

Mounting Channels are supplied with an orange snap-in alignment insert (Figure 9) for runs longer than 8 feet. Place alignment insert in between Mounting Channels to ensure straight alignment from channel to channel during installation, (Figure 10). Remove and discard alignment insert after Mounting Channels are installed.

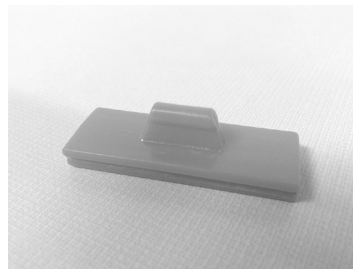


Figure 9

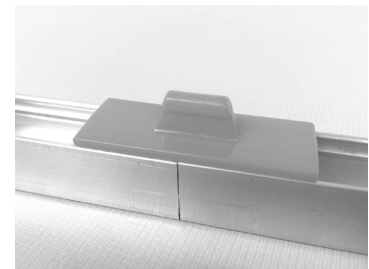


Figure 10

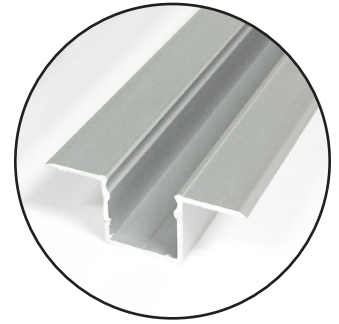
STEP 5

Install surface material if applicable:

Wall covering 5/8" thick or more such as faux stone or decorative wall panels can now be installed around the mounting channels creating a recessed lighting effect.

**See page 9 for next step:
Installing Light Engines**

SLOTLINE INSTALLATION INSTRUCTIONS



RECESSED MOUNT WITH TRIM

IMPORTANT:

If angle cutting for 90° turns, T & X sections and corners, refer to SlotLine Angle Cut Instructions before proceeding to steps below.

STEP 1

Measure, Draw & Cut recessed path:

Recessed pathway must be minimum 0.71 wide and 5/8" deep. Add 1" to cut length for the recessed Feeder Box (**Figure 1**). Add 2" to recessed cut length if using jumper feed with second Feeder Box to connect to another section (**Figure 2**).

The trim on each side of mounting channel allows for wider tolerance when cutting channel and will cover any gaps along the edges.

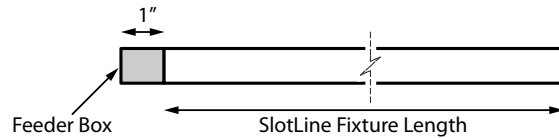


Figure 1

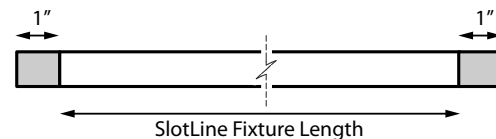


Figure 2

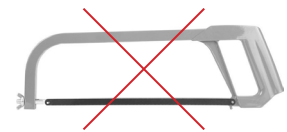
STEP 2

Cut aluminum Mounting Channel to length:

The Mounting Channel ships in 8 foot lengths that are field cut to length as needed with Miter Saw or Circular Saw using blades made for cutting aluminum. It is not recommended to cut with a hand saw. Deburr all edges after cutting.

NOTE: Allow 1 inch for attachment of feeder box at beginning of run (and end of run if using jumper feeds.)

Example: Extrusions for single 12 foot run will be cut to 12 feet but allow one extra inch of space at start of run for Feeder Box.



Hand Saw Not Recommended

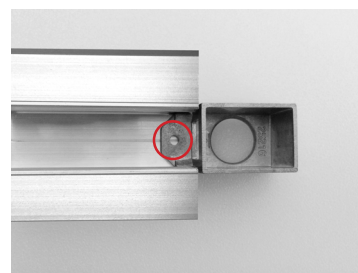


Figure 4

STEP 3

Attach Feeder Box and End Cap:

Insert supplied Feeder Box into first extrusion of run and use pencil or felt tip pen to mark thru hole location for feeder box screw (**Figure 4**). Drill #26 (.147") hole in mounting channel for Feeder Box mounting screw and deburr edges. Attach Feeder Box to Mounting Channel with supplied 4-40 mounting screw through the back side of Mounting Channel (**Figure 5 & 6**). Repeat process to attach end cap to end of run.

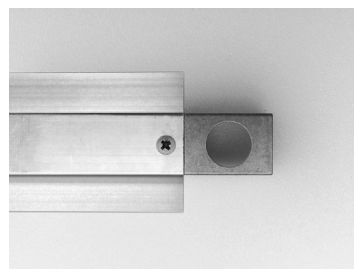


Figure 5

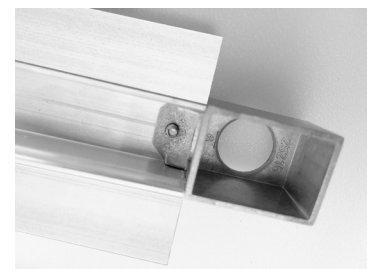
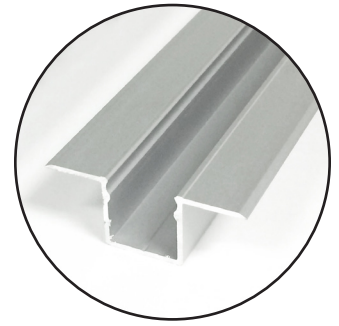


Figure 6

SLOTLINE INSTALLATION INSTRUCTIONS



RECESSED MOUNT WITH TRIM

STEP 3

Drill Pilot Holes in Mounting Channel:

Using a #26 (.147") drill bit, drill pilot holes in Mounting Channel where needed to attach Mounting Channel to surface (**Figure 7**). There is a groove down center of each Mounting Channel to help start the drill bit in center of channel.



Figure 7

STEP 5

Install Mounting Channels:

Attach Mounting Channel to surface using #6 Phillips bugle head screws. Tempo supplies screws for wood, metal and drywall applications. If surface is not one of these materials, make sure the screws used are #6 bugle head as these type screws will sit flush with surface of Mounting Channel without the need to countersink holes.

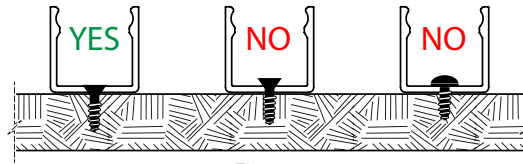


Figure 8

IMPORTANT NOTE: If bugle head screws are not available you will need to countersink the holes so screw head sits flush in bottom of Mounting Channel. If the screw head projects more than 1/16" above, then the light engine will not seat properly into the bottom of channel. (**Figure 8**)

Mounting Channels are supplied with an orange snap-in alignment insert (**Figure 9**) for runs longer than 8 feet. Place alignment insert in between Mounting Channels to ensure straight alignment from channel to channel during installation, (**Figure 10**). Remove and discard alignment insert after Mounting Channels are installed.

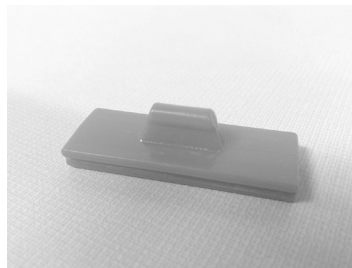


Figure 9

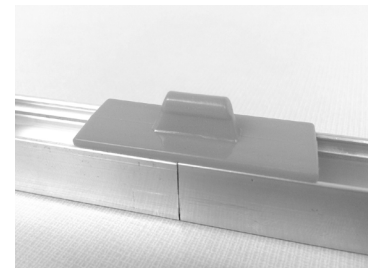
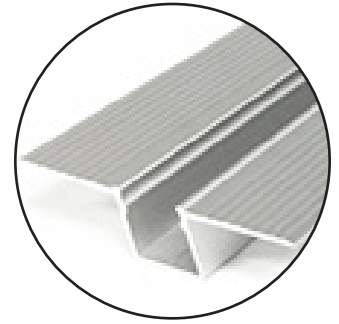


Figure 10

**See page 9 for next step:
Installing Light Engines**

SLOTLINE INSTALLATION INSTRUCTIONS



RECESSED MUD-IN (5/8" DRYWALL)

IMPORTANT:

If angle cutting for 90° turns, T & X sections and corners, refer to SlotLine Angle Cut Instructions before proceeding to steps below.

STEP 1

Measure, Draw & Cut recessed path:

Recessed pathway must be minimum 0.71 wide and 5/8" deep. Add 1" to recessed cut length for the recessed Feeder Box (**Figure 1**).

Add 2" to recessed cut length if using jumper feed with second Feeder Box to connect to another section (**Figure 2**).

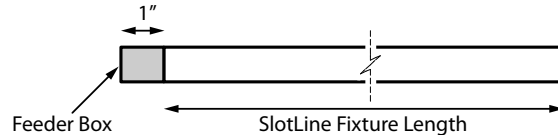


Figure 1

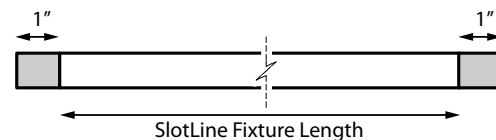


Figure 2

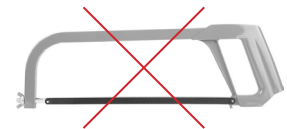
STEP 2

Cut aluminum Mounting Channel to length:

The Mounting Channel ships in 8 foot lengths that are field cut to length as needed with Miter Saw or Circular Saw using blades made for cutting aluminum. It is not recommended to cut with a hand saw. Deburr all edges after cutting.

NOTE: Allow 1 inch for attachment of feeder box at beginning of run (and end of run if using jumper feeds.)

Example: Extrusions for single 12 foot run will be cut to 12 feet but allow one extra inch of space at start of run for Feeder Box.



Hand Saw Not Recommended

STEP 3

Attach Feeder Box and End Cap:

Insert supplied Feeder Box into first extrusion of run and use pencil or felt tip pen to mark thru hole location for feeder box screw (**Figure 4**).

Drill #26 (.147") hole in mounting channel for Feeder Box mounting screw and deburr edges.

Attach Feeder Box to Mounting Channel with supplied 4-40 mounting screw through the back side of Mounting Channel (**Figure 5**). Repeat process to attach end cap to last extrusion of run (**Figure 6**).

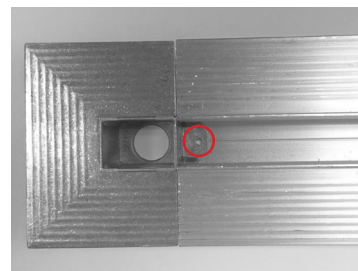


Figure 4

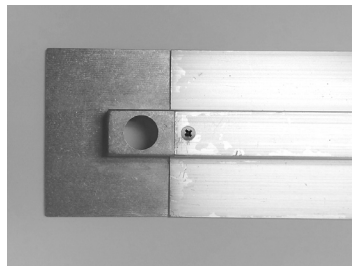


Figure 5

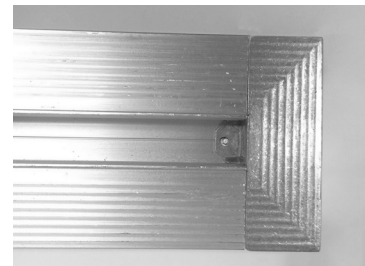
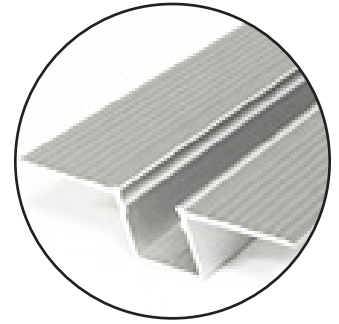


Figure 6

SLOTLINE INSTALLATION INSTRUCTIONS



RECESSED MUD-IN (5/8" DRYWALL)

STEP 4

Drill thru holes for mounting in drywall:

Using a #26 (.147") drill bit, drill holes in Mounting Extrusion flange every 12" and countersink holes using 82° 3/8" countersink bit (**Figure 7**).

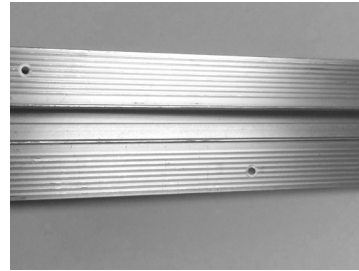


Figure 7

STEP 5

Install Mounting Channel into surface:

Insert Mounting Channel into drywall slot and secure with supplied #6 Phillips bugle head screws. Make sure screw heads seat into countersink and sit flush with surface of flange (**Figure 8**).

NOTE: Ensure power feed wiring has been pulled into feeder box prior to securing Mounting Channel.



Figure 8

Mounting Channels are supplied with an orange snap-in alignment insert (**Figure 9**) for runs longer than 8 feet. Place alignment insert in between Mounting Channels to ensure straight alignment from channel to channel during installation, (**Figure 10**). Remove and discard alignment insert after Mounting Channels are installed.

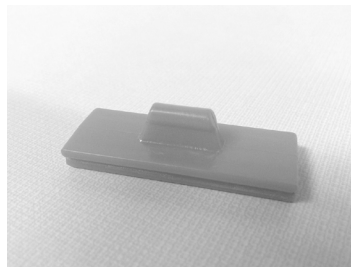


Figure 9

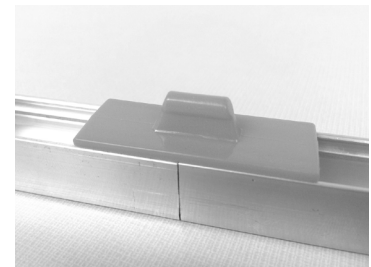
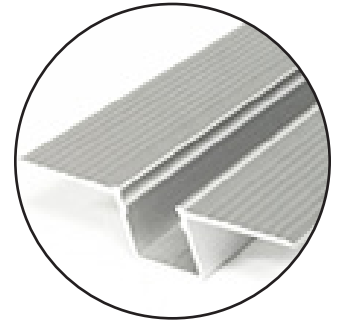


Figure 10

SLOTLINE INSTALLATION INSTRUCTIONS

RECESSED MUD-IN (5/8" DRYWALL)



STEP 6

Prepare for tape and mud:

Insert black rubber debris into lens channel to seal the channel from any debris and joint compound (**Figure 11**).

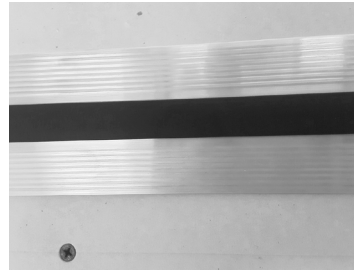


Figure 11

STEP 7

Tape and mud the Mounting Channel:

Apply thin layer of joint compound around all sides and press drywall joint tape along each side, pressing it into joint compound beneath.

Mud the edges all the way to black debris shield. Be sure to feather compound out 12" - 24" from mounting channel to blend into the wall or ceiling. Lightly sand to flat then seal and paint.

Remove black rubber debris shield when dry.

**See page 9 for next step:
Installing Light Engines**

SLOTLINE INSTALLATION INSTRUCTIONS

LIGHT ENGINE PREPARATION FOR TURNS AND INSIDE/OUTSIDE CORNERS.
(FOR STRAIGHT RUNS, SKIP TO PAGE 11 "LIGHT ENGINE INSTALLATION")

NOTE: DO NOT USE SLOTLINE CONNECTORS TO MAKE TURNS AND CORNERS AS THEY WILL NOT FIT PROPERLY. TURNS AND CORNERS CAN ONLY BE DONE BY SPLITTING THE LIGHT ENGINE AS SHOWN BELOW.

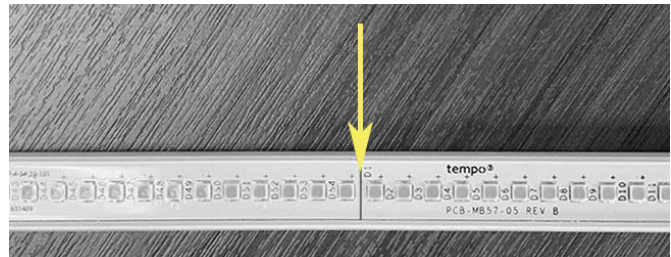


Figure 12

STEP 1

Locate where to cut plastic extrusion:

Mark a cutting line on the plastic extrusion at point where the two LED boards meet that you want to separate for turning around corners, (Figure 12).

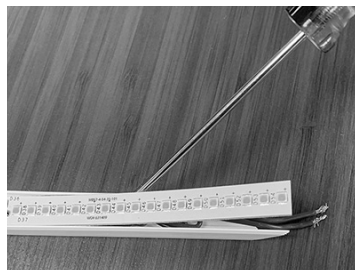


Figure 13



Figure 14

STEP 2

Remove LED Boards:

Use flat head screwdriver to gently pry up the LED board out of the extrusion, (Figure 13). When you reach the two "Pin Wire" connectors gently lift the board up to disconnect, (Figure 14). Continue with screwdriver down length of board to fully remove. (Figure 15). Repeat to remove second board, (Figure 16).

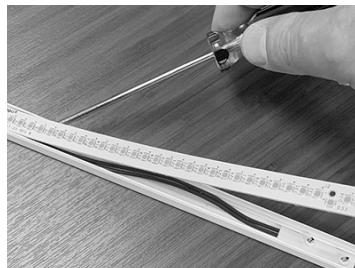


Figure 15



Figure 16

STEP 3

Prepare extrusion for cutting:

Push Pin-Wire housing towards the cut line on extrusion (Figure 17) to make wire slack so it can be moved out of the way when cutting extrusion, (Figure 18).

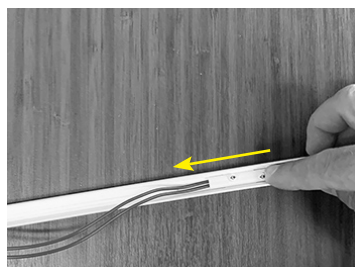


Figure 17



Figure 18

SLOTLINE INSTALLATION INSTRUCTIONS

LIGHT ENGINE PREPARATION FOR TURNS AND INSIDE/OUTSIDE CORNERS.
(FOR STRAIGHT RUNS, SKIP TO PAGE 11 "LIGHT ENGINE INSTALLATION")

STEP 4

Cutting Extrusion:

Locate cut mark from Step 1 and using Band Saw or Miter Saw, cut at least 1/8 inch from either side of mark (Figure 19) removing at least 1/4 inch of material, (Figure 20).

BE CAREFUL NOT TO CUT THE WIRES.

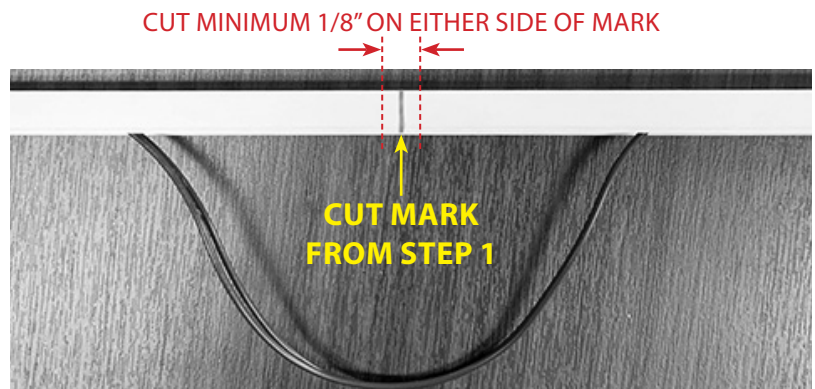


Figure 19

STEP 5

Re-install LED Boards:

Slide the Pin-Wire housing back into place, (Figure 21). Line up Pin-Wire with two holes in board and press down firmly to lock into place, (Figure 22).

Firmly press up and down the entire length of board until you hear audible "snap" when boards locks into place. When finished end of board should over hang the extrusion by around 1/8 inch or more, (Figure 23).

Repeat Step 5 to install second board.

When finished the light engine will be able to bend around turns and corners, (Figure 24 & 25).



Figure 20

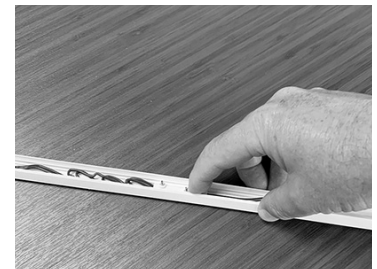


Figure 21



Figure 22



Figure 23

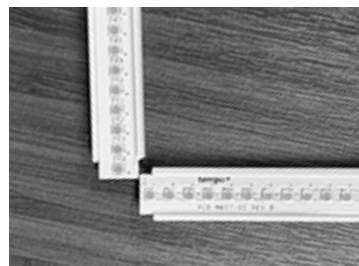


Figure 24



Figure 25

SLOTLINE INSTALLATION INSTRUCTIONS

LIGHT ENGINE INSTALLATION - ALL MODELS

STEP 1

Run Power Feed Cable:

Run power feed wire with Thru-Wire Connector into hole in bottom of feeder box. Pull connector up & out of extrusion. (Figure 11).

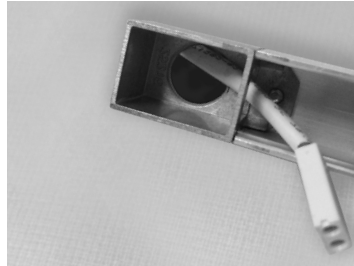


Figure 11



Figure 12

STEP 2

Connect First Light Engine:

Connect wires from first light engine to Thru-Wire connector from power feed by pushing the two wires from light engine into connector, (Figure 12). Then push connector back into Feeder Box, (Figure 13). Press Feeder Box Cover into top of feeder box to protect connection, (Figure 14).

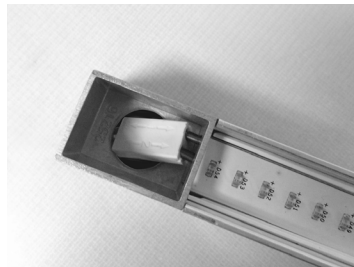


Figure 13



Figure 14

STEP 3

Install 1st Light Engine:

Press light engine into Mounting Channel with palm of hands so it sits flush with top surface of mounting channel, (Figure 15).

IMPORTANT NOTE: Do not press Light Engine all the way into the mounting channel with fingers or tools. Installation of lens in following steps will seat the Light Engine properly down into the mounting channel without touching the LEDs.

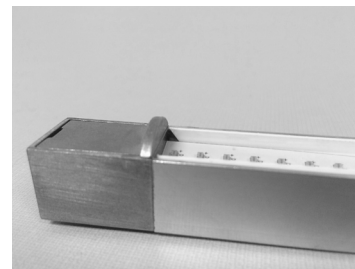


Figure 15

Repeat Steps 2 and 3 above to connect each additional light engine.

STEP 4

Power light engines to ensure proper operation before moving to next step - Lens Installation.

SLOTLINE INSTALLATION INSTRUCTIONS

LENS INSTALLATION - ALL MODELS

IMPORTANT:

If angle cutting for 90° turns, T & X sections and corners, refer to SlotLine Angle Cut Instructions before proceeding to steps below.

STEP 1

Prepare Lens:

Measure total length between inside wall of Feeder Box and End Cap of run and cut the SlotLine lens to proper length by slicing with PVC Ratchet Cutter or multi purpose blade tool. It is recommended to cut lens about 1 inch longer than needed, then precisely slice off extra lens material at end of lens installation.



Recommended tools for cutting lens

STEP 12

Installing Lens:

Starting at one end of run, line up end of lens with edge of End Cap (or Feeder Box) and press lens straight into the Mounting Channel (**Figure 16**). Continue pressing lens straight into channel with the palm of your hand down the entire length of run (**Figure 17**). During lens installation the Light Engine will automatically recess into bottom of Mounting Channel.



Figure 16

DO NOT try to slide lens. Press directly from top, into the Mounting Channel, with palm of hand as shown in (**Figure 17**).

When end of run is reached, mark and slice off extra lens material as needed so end of lens sits flush with inside wall of Feeder Box or End Cap.



Figure 17