**WARNING:** INSTALL PRODUCT IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES BY A QUALIFIED ELECTRICIAN OR ELECTRICAL CONTRACTOR.

**WARNING:** FAILURE TO COMPLY WITH THE INSTALLATION INSTRUCTIONS MAY RESULT IN DEATH OR SERIOUS INJURY

**WARNING:** READ ALL SAFETY INSTRUCTIONS INCLUDED WITH LUMINAIRE BEFORE INSTALLING LUMINAIRE.

**CAUTION:** THIS IS AN ELECTRONIC DEVICE. CARE MUST BE TAKEN DURING STORAGE AND HANDLING. STORE IN A CLEAN, COOL AND DRY LOCATION. ELECTROSTATIC DISCHARGE (ESD) CAN HARM THIS PRODUCT. AVOID STATIC DISCHARGE WHILE HANDLING THIS PRODUCT.
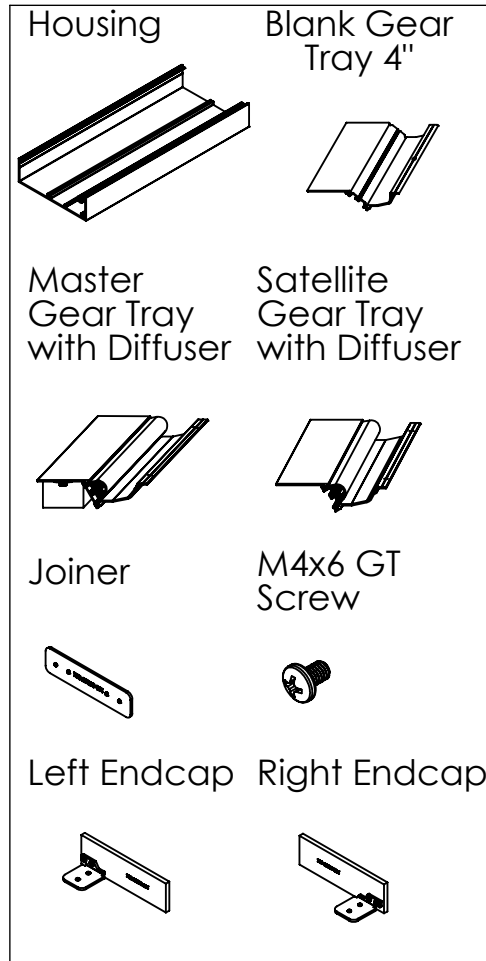
**CAUTION:** INTER-LUX IS NOT RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THE BUILDING TO SUPPORT THE LUMINAIRE. ADDITIONAL BACKING MAY BE REQUIRED.
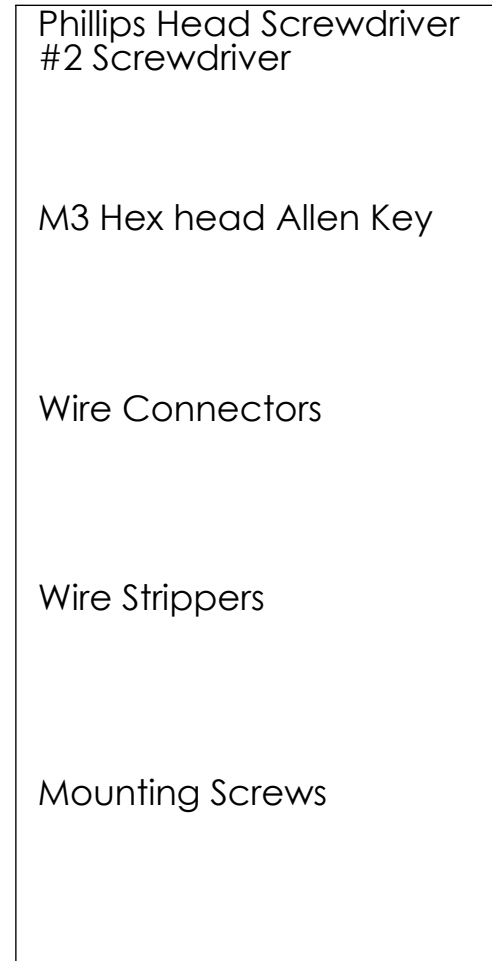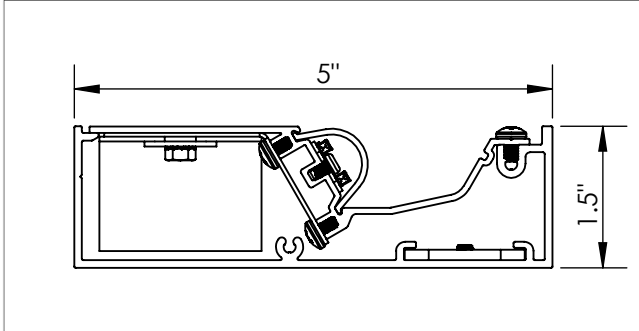
### ISOMETRIC VIEWS



### MOUNTING DIMENSIONS



5"  
1.5"

### MOUNTING OPTIONS

Surface
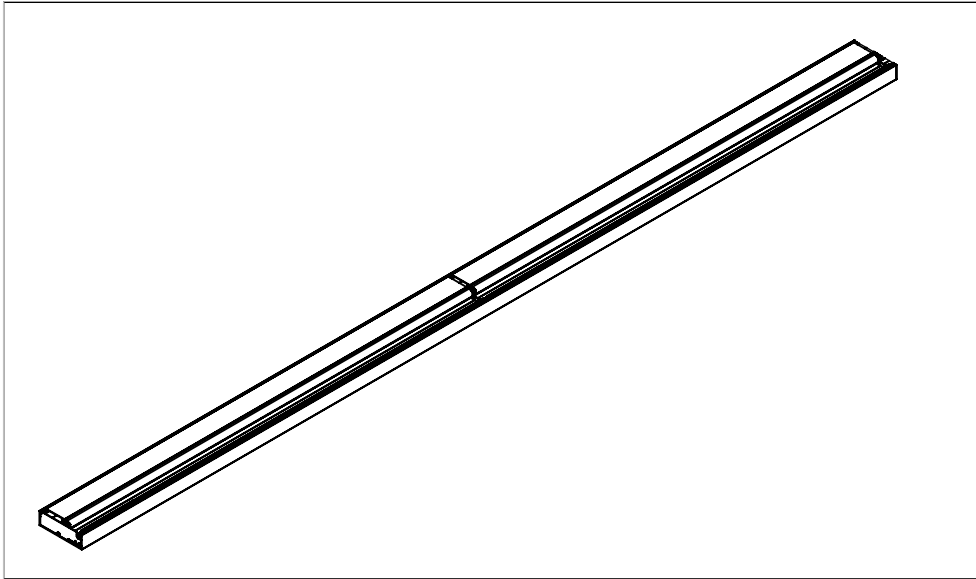


### PACKAGE MAY INCLUDE: (refer to package list to identify parts)

- Housing
- Blank Gear Tray 4"
- Master Gear Tray with Diffuser
- Satellite Gear Tray with Diffuser
- Joiner
- M4x6 GT Screw
- Left Endcap
- Right Endcap

### ITEMS NEEDED (SUPPLIED BY OTHERS):

- Phillips Head Screwdriver #2 Screwdriver
- M3 Hex head Allen Key
- Wire Connectors
- Wire Strippers
- Mounting Screws
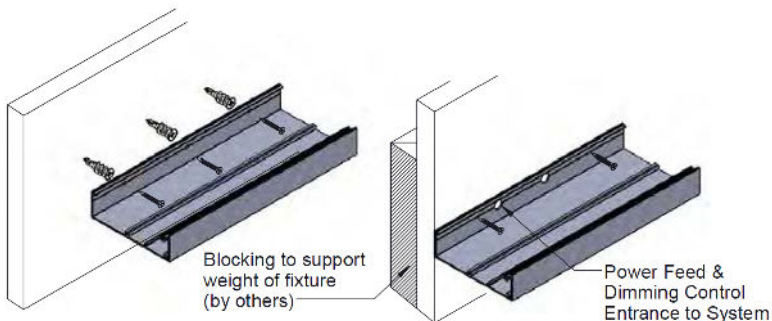
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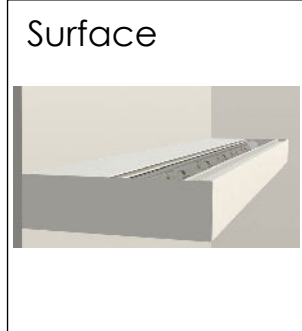
## INSTALLATION INSTRUCTIONS

LOCATE AND REVIEW ANY CONSTRUCTION PLANS AND INTERLUX RECORD DRAWINGS FOR ALL FIXTURE RUNS.
It is recommended to locate and lay out all components for each fixture "run". A fixture run typically consist of joiners, lengths of housings, lengths of gear trays with diffuser(satellite and master), blank gear trays, and endcaps. BE SURE TO IDENTIFY ALL CORRECT LENGTHS FOR EACH FIXTURE RUN.
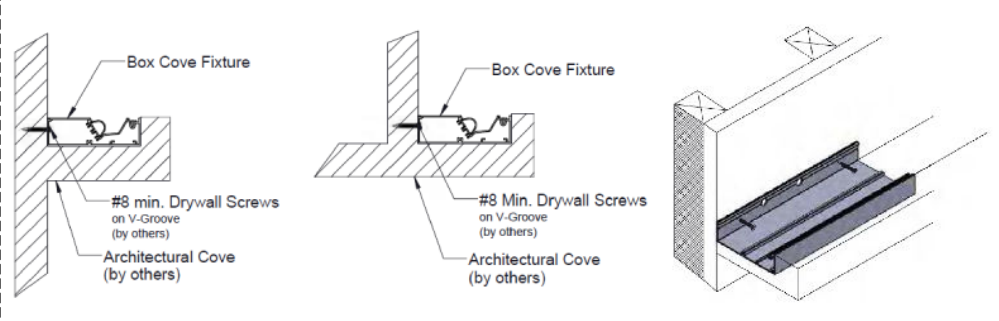
### Step 1: Turn off Power before Installing.

Mount housing extrusion to the mounting surface at desired height with fasteners. Surrounding structure is required to support the weight of the fixture.
(Recommended: start at end wall for linear fixtures or corner for rectangular and U-shapes.)
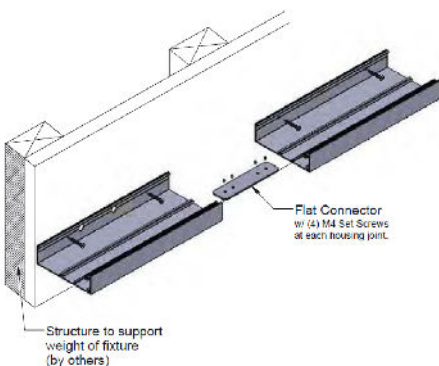
**Surface Application**



Blocking to support weight of fixture (by others)

Power Feed & Dimming Control Entrance to System

**Lay-in Cove application**



Box Cove Fixture

#8 min. Drywall Screws on V-Groove (by others)
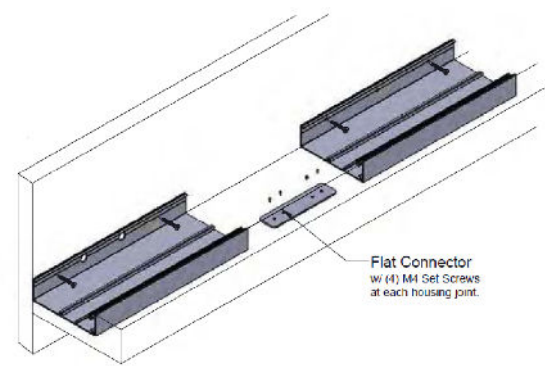
Architectural Cove (by others)

### Step 2: (If single housing skp this step)
Mount next housing extrusion as shown by sliding the provided joiner into the adjacent housing. Secure in place by tightening set screws. Mount housing to structure. Repeat this step until all housings are installed and mounted.
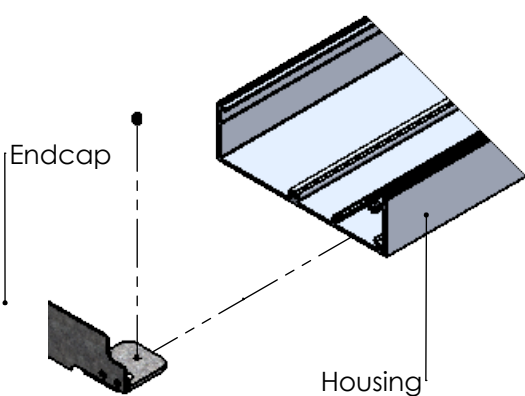
**Surface Application**



Flat Connector w/ (4) M4 Set Screws at each housing joint.

Structure to support weight of fixture (by others)

**Lay-in Cove application**



Flat Connector w/ (4) M4 Set Screws at each housing joint.

### Step 3: (If no endcaps skip this step)
Install endcaps on ends of first and last housing.



Endcap

Housing

### Step 4:
Install Gear Trays making electric connections first, then insert gear tray into housing. Refer to pages 2&3 for wiring diagrams if needed. Refer to record drawings for gear tray placement. Secure gear tray to housing using screws in pre-drilled holes. Repeat this step until all gear trays are installed. Energize and test for proper operation.



Bottom of Master Gear Tray (Driver Present)

Master Gear Tray

Satellite Gear Tray
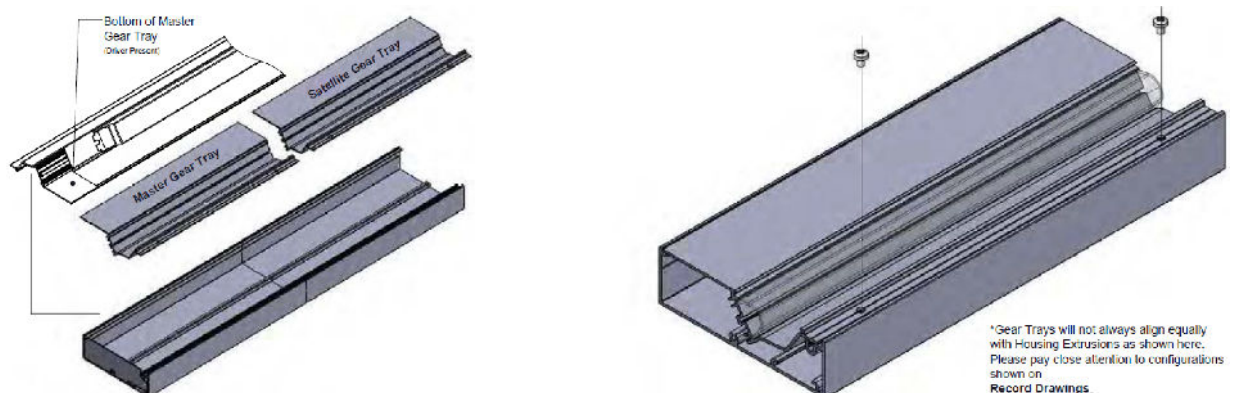
*Gear Trays will not always align equally with Housing Extrusions as shown here. Please pay close attention to configurations shown on Record Drawings.

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SHEET 1 OF 3

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**inter·lux**

**BC Box Cove LED**
INSTALLATION INSTRUCTIONS

WEIGHT:

FINISH:
White (Standard)

WG-BC

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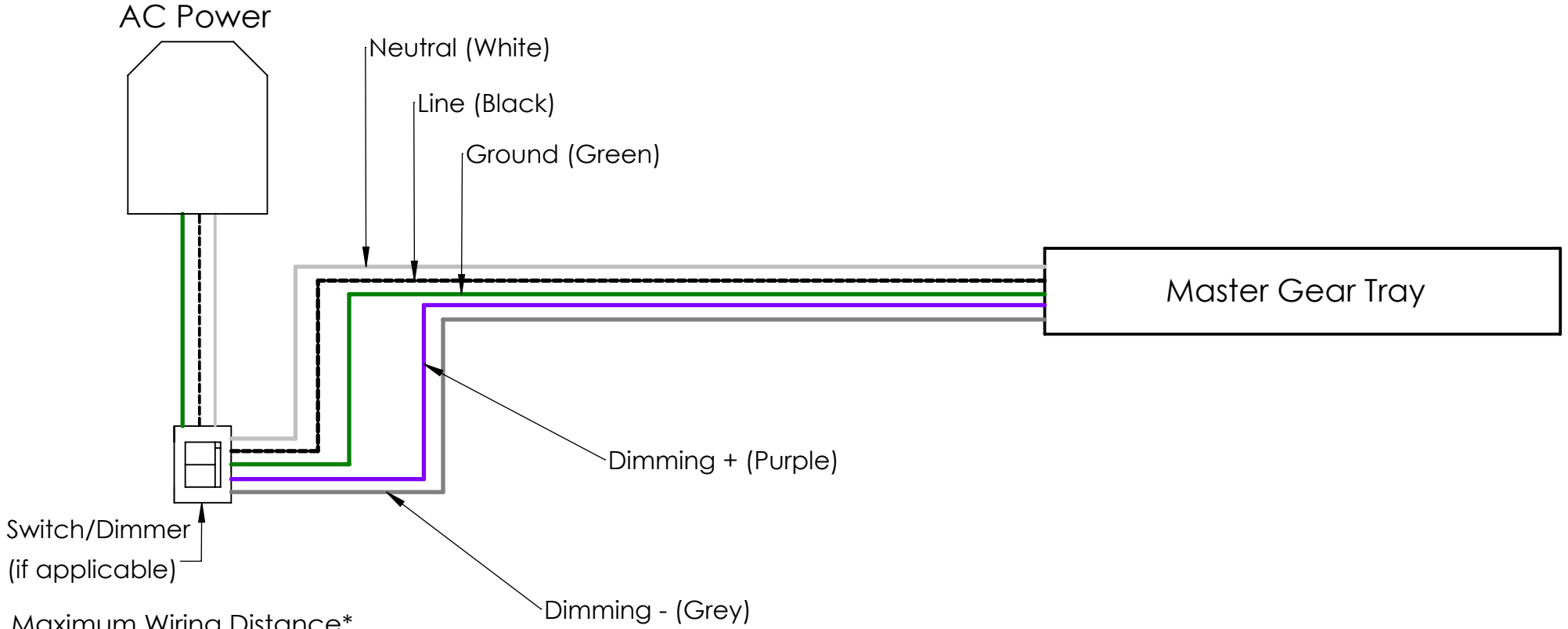
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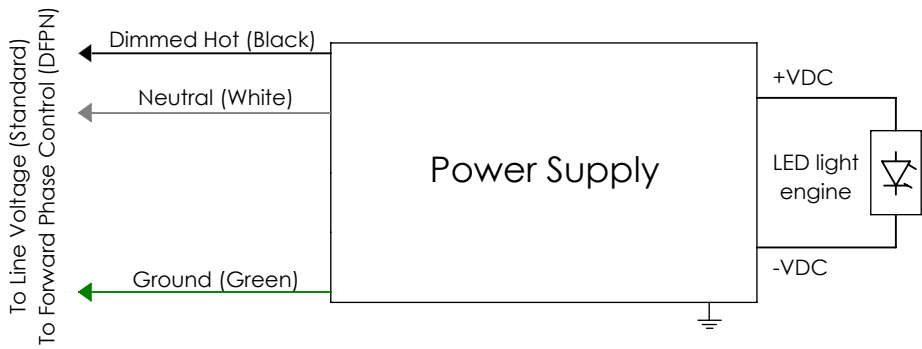
## Wiring Key

AC Power

Neutral (White)

Line (Black)

Ground (Green)

Master Gear Tray

Dimming + (Purple)

Switch/Dimmer
(if applicable)

Dimming - (Grey)

### Maximum Wiring Distance*

| Wire Gauge | Maximum Lead Length | | | |
|---|---|---|---|---|
| | Osram | | | Lutron |
| | ≤ 48W | ≤ 72W | ≤ 96W | ≤ 40W |
| #18AWG | 37' | 25' | 18' | 15' |
| #16AWG | 59' | 39' | 29' | 25' |
| #14AWG | 95' | 63' | 47' | 40' |
| #12AWG | 151' | 101' | 75' | 60' |

*Actual Voltage drop to be calculated by installer

| Red | Blue | Green | Black | White | Purple | Grey |
|---|---|---|---|---|---|---|
| Positive | Negative | Ground | Line | Neutral | Dimming + | Dimming - |

## Driver Wiring Diagrams

### Standard Non-Dimming/DFPN Dimming

To Line Voltage (Standard)
To Forward Phase Control (DFPN)

Dimmed Hot (Black)

Neutral (White)

Power Supply

+VDC

LED light engine

-VDC

Ground (Green)

### D3W 1% Dimming

To 3-Wire Dimming Control

Switched Hot (Black)

Dimmed Hot (Orange)

Neutral (White)

Power Supply

+VDC

LED light engine

-VDC

Ground (Green)

### DES 1% Dimming

To Line Voltage

Switched Hot (Black)

Neutral (White)

Ground (Green)

Power Supply

+VDC

LED light engine

-VDC

To Ecosystem Digital Link

E1 (Purple)

E2 (Purple)

### 0-10V Dimming

To Line Voltage

Line (Black)

Neutral (White)

Ground (Green)

Power Supply

+VDC

LED light engine

-VDC

To 0-10V Dim Control
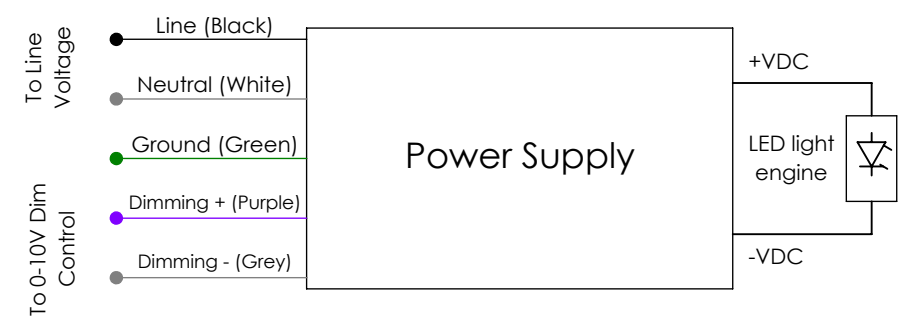
Dimming + (Purple)

Dimming - (Grey)

**NOTE: ALL DRIVERS ARE INTER-LUX PROVIDED. FOR NON INTER-LUX DRIVERS PLEASE REFER TO DRIVER MANUFACUTERS. THE USE OF NON INTER-LUX DRIVERS VOIDS PRODUCT WARRANTY**

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## WIRING DIAGRAM



Power Feeds

DRIVER

HIGH VOLTAGE MASTER HARNESS

HIGH VOLTAGE (PASS THROUGH) SATELLITE HARNESS

LOW VOLTAGE TO GEAR TRAY LEDS — **GEAR TRAY MASTER (MA)**

LOW VOLTAGE TO GEAR TRAY LEDS — **GEAR TRAY SATELLITE (SA)**



Master Harness for High Voltage Circuit

Driver

Low Voltage (Red and Blue) to LED Board

High Voltage (Black, Gray, Purple, White)

Ground Green terminal fixed to gear tray

Low Voltage (Red, Blue)

Gear Tray (MA)



Satellite Harness for High Voltage Circuit

Low Voltage (Red and Blue) to LED Board

Ground Green terminal fixed to gear tray

Gear Tray (SA)



HIGH VOLTAGE CIRCUIT (BLACK, WHITE, GREEN, GREY, PURPLE, RED, BLUE)

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