

## INSTALLATION INSTRUCTIONS

### ORBIT PRISM+ 7" L.E.D. HEADLIGHT

2478

DOWNLOAD APP TO PHONE: **KURYAKYN PRISM+**

**THANK YOU FOR CHOOSING KURYAKYN!**

Protect yourself and others from possible injury and property damage or loss. Pay close attention to all instructions, warnings, cautions, and notices regarding the installation, use, and care of this product.

**WARNING** THIS INDICATION ALERTS YOU TO THE FACT THAT IGNORING THE CONTENTS DESCRIBED HEREIN CAN RESULT IN POTENTIAL DEATH OR SERIOUS INJURY.

**CAUTION** THIS INDICATION ALERTS YOU TO THE FACT THAT IGNORING THE CONTENTS DESCRIBED HEREIN CAN RESULT IN MINOR OR MODERATE POTENTIAL INJURY.

**NOTICE** THIS INDICATION ALERTS YOU TO THE FACT THAT IGNORING THE CONTENTS DESCRIBED HEREIN MAY NEGATIVELY AFFECT PRODUCT PERFORMANCE AND FUNCTIONALITY OR DAMAGE THE PRODUCT ITSELF OR THE PRODUCT TO WHICH IT IS BEING ATTACHED.

### ENSURE THAT THE FOLLOWING PARTS HAVE BEEN INCLUDED IN THE KIT:

1	Headlight	1	Hardware Kit, containing:
1	Headlight Mounting Bracket	3	Springs
1	Headlight Mounting Bracket Bottom	3	M6 X 1.0 X 35MM Button Socket Head Cap Screws
1	Bluetooth Controller	2	M8 X 1.25 X 10MM Button Socket Head Cap Screws
1	Extension Cord	2	8MM Split Washers
6	4" Cable Ties	1	Self Tapped Screw

### YOU WILL ALSO NEED:

Hex wrench set, Phillips screw driver, wire stripper, electrical and masking tape

**NOTICE** THESE INSTALLATION INSTRUCTIONS CONTAIN IMPORTANT INFORMATION. ENSURE THE END USER RECEIVES THIS COPY AND IS AWARE OF ITS IMPORTANCE FOR FUTURE USE.

**NOTICE** REFER TO THE LAST PAGE OF THE INSTALLATION INSTRUCTIONS FOR L.E.D. COUNTS FOR EACH VARIATION OF PRISM+ LIGHTS. BLUETOOTH CONTROLLERS HAVE A MAX CAPACITY OF 250 L.E.D.S CONNECTED TO IT AT A TIME. MAX CAPACITY PER CHANNEL IS 100 L.E.D.S, BUT THE CONTROLLER SHOULD NEVER EXCEED A TOTAL OF 250 L.E.D.S CONNECTED TO IT.

**WARNING** A FACTORY SERVICE MANUAL WILL BE HELPFUL IN PERFORMING THIS INSTALLATION. DO NOT ATTEMPT TO PERFORM THIS INSTALLATION IF YOU ARE NOT CONFIDENT IN YOUR ABILITY TO COMPLETE ALL OF THE STEPS IN THE PROCEDURE; CONSULT A TRAINED TECHNICIAN. IMPROPER INSTALLATION COULD RESULT IN SERIOUS INJURY OR DEATH.

**WARNING** ACCIDENTAL VEHICLE START-UP COULD CAUSE DEATH OR SERIOUS INJURY, REMOVE THE MAIN FUSE BEFORE PROCEEDING.

**NOTICE** AVOID DAMAGE TO THE MOTORCYCLE. PROTECT PAINTED SURFACES WITH A SOFT CLOTH OR BLANKET

**STEP 1** Read and understand all steps in the instructions before starting the installation. Park the motorcycle on a hard, level surface and turn off the ignition. Let motorcycle cool.

**STEP 2** Refer to PIC 1 and 2. Remove the headlight trim. Set trim and hardware aside. Hardware will not be reused, but the trim will.

*Note: Headlight trim and assembly will vary. Refer to motorcycle service manual for assistance.*

INSTALLATION PHOTOS SHOWN ON  
2017 H-D STREET GLIDE



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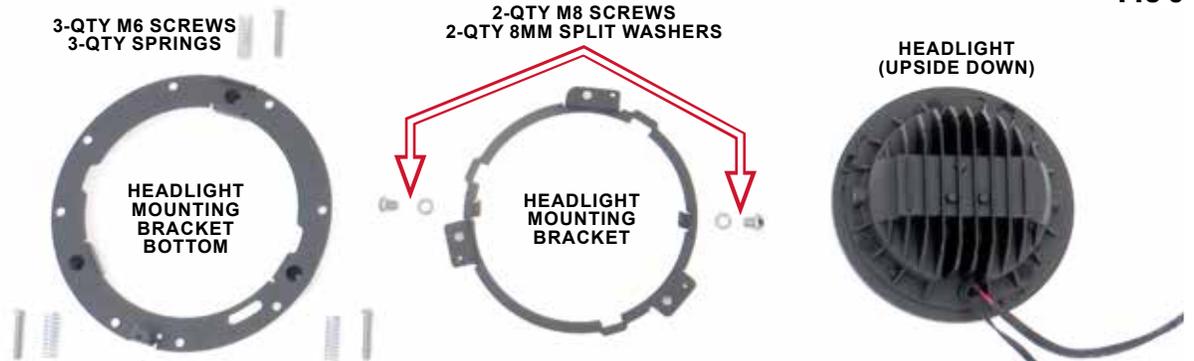
- STEP 3** Refer to PIC 3 and 4. Remove the hardware that is holding the existing headlight in place, and set it aside until later. Gently take the headlight out, disconnect the wires, and set light aside. It will not be reused.



*Note: Headlight attachment and assembly will vary. Refer to motorcycle service manual for assistance.*

#### MOUNTING BRACKET INSTALLATION

- STEP 4** Refer to PIC 5. Locate Orbit Headlight, Headlight Mounting Bracket, Headlight Mounting Bracket Bottom, two (2) M8 Screws, two (2) 8MM Split Washers, three (3) M6 Screws, and three (3) Springs. Apply loctite to all screw threads. Place all parts on a flat clean surface, and with the headlight upside down.



- STEP 5** Refer to PIC 6 and 7. With the brackets of the Headlight Mount Bracket facing up, feed the wires of the headlight through the bracket and place it on top of the headlight.



- STEP 6** Refer to PIC 8. Align the two inner brackets of the Headlight Mounting Bracket with the holes on each side of the Headlight. Fasten the Mounting Bracket to the Headlight by placing a 8MM split washer on each of the M8 screws and inserting them through the aligned side holes, one on each side. Fully tighten hardware.



- STEP 7** Refer to PIC 9. Locate the Mounting Bracket Bottom. With the protruding bracket side placed down on a flat surface, feed the headlight wire through the mount and place the headlight in the mount right side up.



## INSTALLATION INSTRUCTIONS

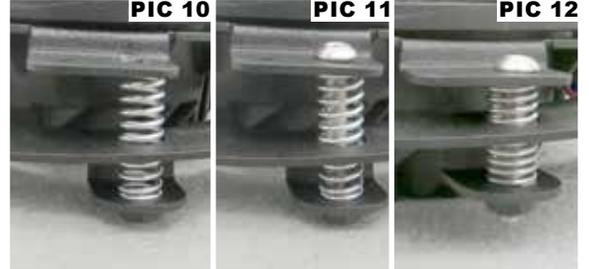
### ORBIT PRISM+ 7" L.E.D. HEADLIGHT

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**STEP 8** Refer to PIC 10 through 12. Align the bracket holes of the two mounts. On the Bottom Mounting Bracket, place a spring into each hole with a bracket on the underside. Place a M6 screw in each of the holes of the Mounting Bracket attached to the headlight.

Press the two brackets together, and lightly tighten the screw until brackets are fastened together.



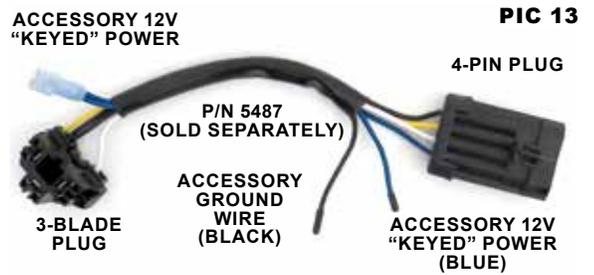
**NOTICE**

**FOR '14-UP HARLEY DAVIDSON ELECTRA GLIDES, STREET GLIDES, AND TRIKES, AND '18-UP FATBOYS**

Refer to PIC 13. Wiring Adapter (P/N 5487 sold separately) is needed for installation.

**FOR '14-UP HARLEY DAVIDSON ROAD KINGS**

Refer to PIC 14. Wiring Adapter (P/N 5478 sold separately) is needed for installation.



**STEP 9** FOR HARLEYS USING WIRE ADAPTER 5487. Connect the 4-Pin Wiring Adapter plug to the motorcycle's headlight connector.

FOR '14-UP ROAD KINGS USING WIRE ADAPTER 5478. Connect the High Beam and Low Beam Wiring Adapter plug to the motorcycle's headlight connectors.

FOR OTHER MODELS continue to Step 10.



**STEP 10** FOR 14-UP H-D MODELS Refer to PIC 15. Connect the headlight's 3-blade connector to the connected adapter.

FOR OTHER MODELS connect the headlight's 3-blade to the motorcycle's OEM headlight outlet.



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#### BLUETOOTH CONTROLLER INSTALLATION

**STEP 11** If Prism+ Bluetooth Controller is already installed, continue to Step 15.

If installing Prism+ Bluetooth Controller that was supplied with this kit continue to Step 12.

**STEP 12** Refer to PIC 16. Locate provided Prism+ Bluetooth Controller. Gain access to your motorcycle's battery for installation of the Bluetooth Controller.

*Note: Battery location and access will vary. Refer to your motorcycle's service manual for assistance.*

**STEP 13** Fasten the controller's two positive hook terminals (red wires with hook terminals) to the positive post on the battery, and the negative hook terminal (black wire with hook terminal) to the negative post on the battery. Fully secure hooks in place.

Do **NOT** connect pigtail wires labeled "brake", "left", "right", unless installing additional Prism+ lights. Refer to the instructions provided with them for installation of pigtail wires. If not installing additional light kits, use electrical tape to individually wrap the exposed pigtail wires. Secure the wires in a safe place.

PIC 16



#### NOTICE

**THE THERMAL LIMIT OF THE MODULE IS 55°C (131°F). IF THE BLUETOOTH CONTROLLER EXCEEDS THESE TEMPERATURES PRISM+ LIGHTS MAY MALFUNCTION.**

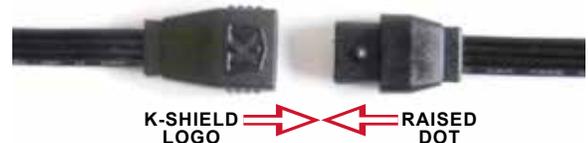
**STEP 14** Set the controller within a safe open space located in or around the motorcycle's frame near the battery. Feed the controller's power switch out from the inner frame area and set it, but do not install it, in desired location.

**STEP 15** Locate provided Extension Cord. Connect the extension cord to the headlight.

*Note: Refer to PIC 17. Make note of the raised dot and the Kuryakyn K-shield logo on opposite ends on each part. When connecting cords to cords, cords to lights, or lights to lights be sure that the raised dot and K-shield logo are both visible when connecting. When parts are connected, the K-shield logos of those parts should be visible on the same side. If within your chain of cords and lights a shield is facing in the opposite direction, it is connected incorrectly.*

PIC 17

CORD TO CORD CONNECTION SHOWN



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**STEP 16** Refer to PIC 18. Connect the extension cord to the Bluetooth Controller or to other previously installed Prism+ extension cords or lights. Be aware of the four different channels on the controller: front left, front right, rear left, and rear right. The headlight will need to connect to either the front left or front right channel. Turn on the Bluetooth Controller switch, open the Kuryakyn Prism+ App on your phone, and pair the two devices. Test for proper function of the headlight before fully installing it on your bike.



PIC 18

**STEP 17** After testing the headlight, disconnect it.

#### NOTICE

TO ENSURE PROPER FUNCTIONALITY OF THE HEADLIGHT, BE SURE THEY ARE CONNECTED TO THEIR PROPER CHANNEL: FRONT LEFT OR FRONT RIGHT.

**STEP 18** Route the extension cord accordingly and connect the Headlight to the Bluetooth Controller, or to other Prism+ extension cords or lights.

**STEP 19** Refer to PIC 19 and 20. Tuck wiring into headlight housing. Align the headlight or headlight bracket assembly so that "DOT" is readable and is positioned on the bottom of the light. Place the assembly on the motorcycle. Use the OEM hardware that was removed in Step 3 to fasten the headlight to the motorcycle.



PIC 19

**STEP 20** Test function of lights. Ensure all of the lights properly function before operating motorcycle.



PIC 20

#### NOTICE

ENSURE PROPER ADHESION OF THIS PRODUCT. REMOVE ALL GREASE, OIL, BUGS, DIRT, AND OTHER DEBRIS (INCLUDING WAX AND POLISH) FROM THE INSTALLATION AREA. KURYAKYN WILL NOT PROVIDE WARRANTY COVERAGE ON PRODUCTS OR COMPONENTS LOST OR DAMAGED DUE TO IMPROPER INSTALLATION.

DO NOT ATTEMPT THIS INSTALLATION IN TEMPERATURES BELOW 50°F (10°C). PROPER ADHESIVE BONDING ONLY OCCURS ABOVE 50°F (10°C).

**STEP 21** Using warm soapy water and a clean rag, remove all dirt and debris from the installation areas for the Bluetooth Controller's switch; allow the area to dry completely. Allow the area to dry completely.

**STEP 22** Refer to PIC 21. Remove and discard adhesive backer from the Bluetooth Controller's switch. Align and place it on the bike. Press into place for one minute; full bonding will occur after 24 hours.



PIC 21

BLUETOOTH  
CONTROLLER'S  
SWITCH  
OFF BIKE VIEW

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- STEP 23** Secure all cords in a safe place. Ensure that cords are secured away from any moving parts, excessive heat or pinch points.

#### NOTICE

SECURE ALL WIRING AWAY FROM ANY MOVING PARTS, PINCH POINTS OR EXTREME HEAT. KURYAKYN WILL NOT ISSUE A WARRANTY ON ANY ELECTRICAL COMPONENT THAT FAILS DUE TO PINCHED, CRIMPED, BROKEN, ABRADED, MELTED OR FRAYED WIRES.

#### ADJUSTING HEADLIGHT AIM

- STEP 24** Refer to FIG 1. Choose a wall that is in minimal light. Park motorcycle on flat surface perpendicular and 25ft away from the wall, measuring from the motorcycle's front axle to the wall. Using masking tape and a level, create a vertical line on the wall. With the motorcycle positioned up right measure the distance from the ground to the center of the high beam bulb. Take that measurement and subtract 2 inches from it. Using that final measurement create a horizontal line over the vertical line on the wall.

The headlight is aligned when the hot spot of the light beam is centered over the intersection of the two lines. Verify the headlight's alignment and adjust it if necessary.

Refer to PIC 22 and 23. Adjust the aim of the headlight by loosening or tightening the three loaded screws attaching the two headlight brackets together.

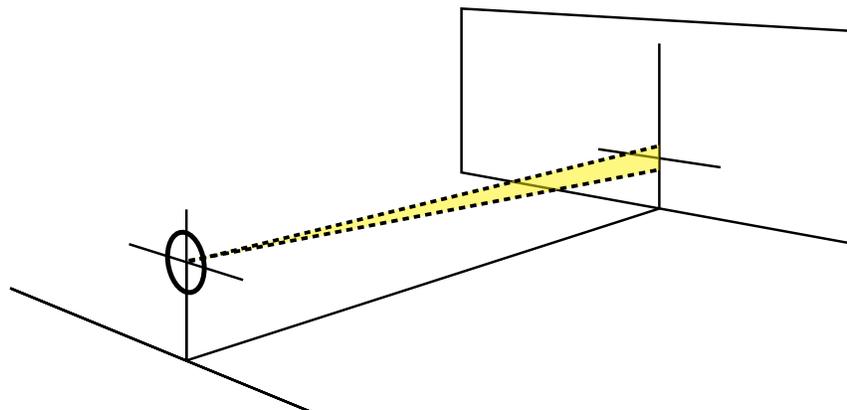


FIG 1

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**STEP 25** FOR HARLEY MOTORCYCLES. Refer to PIC 24. Reinstall headlight trim, using the trim that was removed in Step 2, and the provided Self Tapped Screw.

FOR ALL OTHER MOTORCYCLES. Reinstall any parts that were removed previously to taking the OEM headlight out.

**STEP 26** Reinstall seats and any other part that may have been removed during the process to gain access to your battery.



**WARNING** VISIBILITY IS A MAJOR CONCERN FOR MOTORCYCLISTS. A LIGHT MALFUNCTION COULD RESULT IN DEATH OR SERIOUS INJURY. ENSURE PROPER LIGHT OPERATION BEFORE RIDING THE MOTORCYCLE.

**NOTICE** IT IS THE INSTALLER'S RESPONSIBILITY TO ENSURE THAT ALL OF THE FASTENERS (INCLUDING PRE-ASSEMBLED) ARE TIGHTENED BEFORE OPERATION OF THE MOTORCYCLE. KURYAKYN WILL NOT PROVIDE WARRANTY COVERAGE ON PRODUCTS OR COMPONENTS LOST DUE TO IMPROPER INSTALLATION OR LACK OF MAINTENANCE. PERIODIC INSPECTION AND MAINTENANCE ARE REQUIRED ON ALL FASTENERS.



#### LIMITED WARRANTY

Kuryakyn warrants that any Kuryakyn products sold hereunder, shall be free of defects in materials & workmanship for a period of one (1) year from the date of purchase by the consumer excepting the following provisions:

1. Kuryakyn shall have no obligation in the event the customer is unable to provide a receipt showing the date the customer purchased the product(s).
2. The product must be properly installed, maintained & operated under normal conditions.
3. Kuryakyn shall not be liable for any consequential & incidental damages, including labor & paint, resulting from failure of a Kuryakyn product, failure to deliver, delay in delivery, delivery in nonconforming condition, or for any breach of contract or duty between Kuryakyn & a customer.
4. Kuryakyn products are often intended for use in specific applications. Kuryakyn makes no warranty if a Kuryakyn product is used in applications other than intended.
5. Kuryakyn electrical products are warranted for one (1) year from the date of purchase by the consumer. L.E.D.'s contained in components of Kuryakyn products will be warranted for defects in materials & workmanship for 3 years from the date of purchase whereas all other components shall be warranted for one (1) year.
6. All warranty claims must be directed to the place of purchase. Merchandise sold through internet auction sites or any other unauthorized reseller shall not carry a Kuryakyn warranty. If unsure, please contact the place of purchase to verify they are an authorized Kuryakyn reseller.

#### RETURN POLICY

Merchandise determined to be defective may be returned up to one year from the date of purchase. Returns must be processed through original seller. Returned merchandise for any other reason other than warranty claims must be in like new condition & subject to a 20% restocking fee. All returns are subject to inspection for determination of full or partial credit. Any returned part that shows evidence of being used or installed contrary to manufacturer's instructions, &/or subjected to improper handling, packaging or return shipping by the customer, will not be eligible for exchange, refund or warranty consideration. All returned electrical items will be inspected & tested. If electrical item is deemed functional, no credit will be issued & item will be returned. All sales are final on discontinued or closeout merchandise.

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#### FCC WARNING STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that interference will not occur in particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**CAUTION:** any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may no cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

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**NOTICE**

REFER TO THE L.E.D. COUNT TABLE FOR EACH VARIATION OF PRISM+ LIGHTS. BLUETOOTH CONTROLLERS HAVE A MAX CAPACITY OF 250 L.E.D.S CONNECTED TO IT AT A TIME. MAX CAPACITY PER CHANNEL IS 100 L.E.D.S, BUT THE CONTROLLER SHOULD NEVER EXCEED A TOTAL OF 250 L.E.D.S CONNECTED TO IT.

PRISM COMPONENTS	L.E.D. COUNT
HEADLIGHT 7"	48
HEADLIGHT 5-3/4"	36
PASSING LIGHT 4-1/2"	24
ROULETTE	16
FLARE	8
4" STRIP	8
8" STRIP	16
POD*	8 L.E.D. COUNT (*4 CONTROLLER READ COUNT)

\*The bluetooth controller reads a pod light as 4 L.E.D.s, even though they have a total of 8 L.E.D.s.

**CREATING A SINGLE CHAIN OF PODS AND/OR STRIP LIGHTS:**

Refer to FIG 1.1. Do not exceed the 100 L.E.D. maximum capacity per channel. Place a loop connector on the very end of the chain of lights.

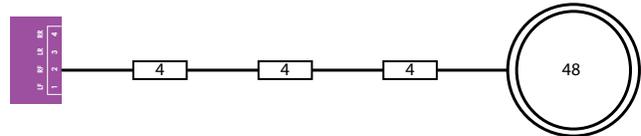
FIG 1.1



**CREATING A SINGLE CHAIN OF PODS AND/OR STRIP LIGHTS WITH A HEADLIGHT OR ROULETTE WHEEL:**

Refer to FIG 2.1. Do not exceed the 100 L.E.D. maximum capacity per channel. Place Headlight or Roulette Wheel on the end of the chain.

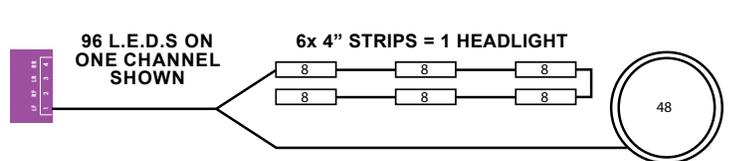
FIG 2.1



**USING A Y-CONNECTOR WITH A HEADLIGHT, THE PASSING LIGHTS, A ROULETTE WHEEL, OR THE FLARE LIGHTS:**

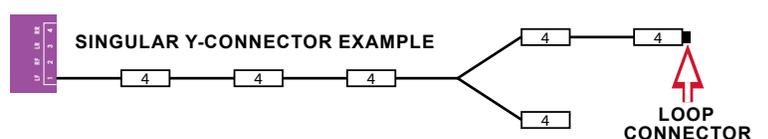
Refer to FIG 3.1. When Y-Connectors are used with a Headlight, the Passing Lights, a Roulette Wheel, or the Flare Lights, each branch of the Y-Connector needs to have the same amount of L.E.D.s to function properly. Lights can be placed before a Y-Connector as long as the 100 L.E.D. maximum capacity per channel is not exceeded.

FIG 3.1



When balancing a branch using Pod Lights the controller reads them as 4 L.E.D.s, but the actual count is 8 L.E.D.s per Pod. The 8 count is used in the overall total of L.E.D.s on a channel. Make sure not to exceed the 100 L.E.D. maximum capacity per channel.

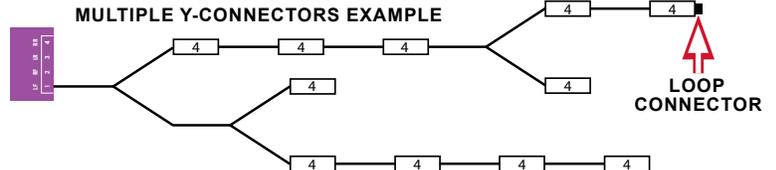
FIG 4.1



**USING A Y-CONNECTOR WITH PODS AND/OR STRIP LIGHTS ONLY:**

Refer to FIG 4.1 and 4.2. When using Y-Connectors, the branch with the most L.E.D.s on it needs to have a loop connector added to the end of it.

FIG 4.2



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