MPS-WHIPS

UTV/ATV LED WHIP INSTALLATION GUIDE

USER MANUAL

INSTALL GUIDE:

IMPORTANT: READ CAREFULLY BEFORE ASSEMBLY AND USE.

•   For Proper installation of this product the installer must have a good understanding of automotive electronics, systems, and wiring procedures.

• Mounting this product may require drilling holes, the installer MUST be sure that no vehicle components or other vital parts could be damaged by the drilling process. Check both sides of the mounting surface before drilling begins. Also de-burr any holes and remove any metal shards or remnants. Install grommets into all wire passage holes.

• Do not attempt to activate or control this device in a hazardous driving situation.

• Do not install this product or route any wires in the deployment area of your air bag equipment mounted or located in the air bag deployment area will damage or reduce the effectiveness of the air bag, or become a projectile that could cause serious personal injury or death. Refer to your vehicle owner's manual for the air bag deployment area. The User/Installer assumes full responsibility to determine proper mounting location, based on providing ultimate safety to all passengers inside the vehicle.

• This product contains either strobe light(s), halogen light(s), high-intensity LEDs and/or a combination of these lights. Do not stare directly into these lights. Momentary blindness and/or eye damage could result.
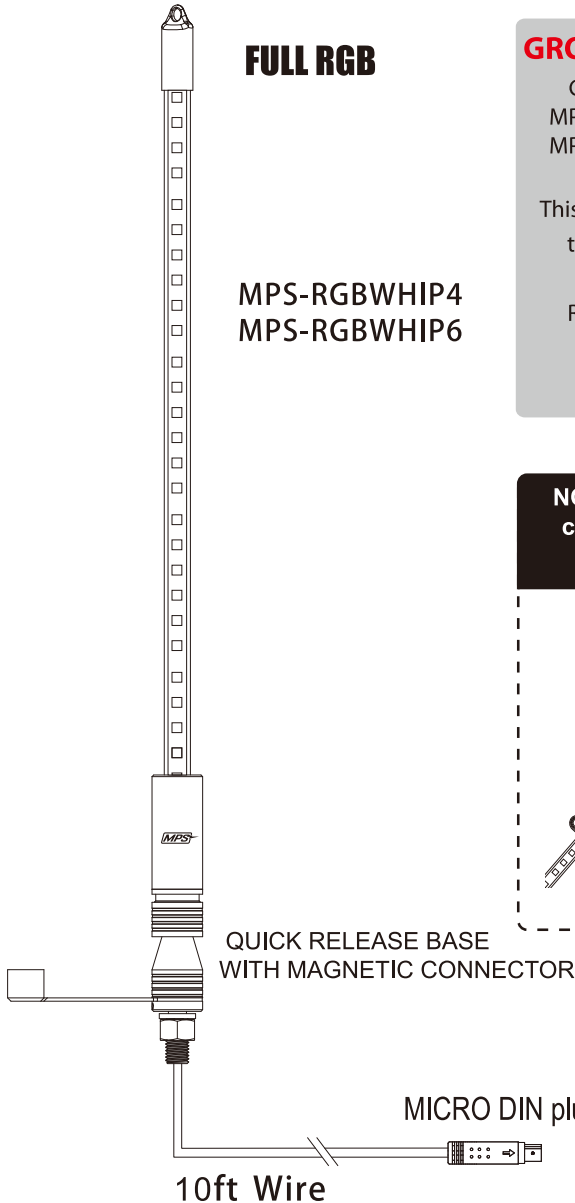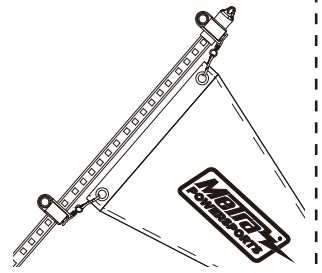
FULL RGB

MPS-RGBWHIP4
MPS-RGBWHIP6

GROUP 1

CONSISTS OF 2 MODELS
MPS-RGBWHIP4 (4 ft model)
MPS-RGBWHIP6 (6 ft model)

This whip must be connected
to the MPS-RGBC-4, and
controlled by the
RGB MPS LED app using
Micro DIN connection.
(see Page 10 & 11)

**NOTE: All Metra Whips
come with a Flag and
mounting hardware**

QUICK RELEASE BASE
WITH MAGNETIC CONNECTOR

MICRO DIN plugs into MPS-RGBC-4

10ft Wire

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SINGLE COLOR LED

MPS-OWHIP4
MPS-OWHIP6
MPS-BWHIP4
MPS-BWHIP6
MPS-GWHIP4
MPS-GWHIP6
MPS-WWHIP4
MPS-WWHIP6
MPS-RWHIP4
MPS-RWHIP6
MPS-PWHIP4
MPS-PWHIP6

QUICK
RELEASE BASE

MPS

10ft Wire

12V+
GND

GROUP 2

CONSISTS OF 12 MODELS
MPS-#WHIP4 (4 ft model)
MPS-#WHIP6 (6 ft model)

Single color LED whip connects
to12VDC positive (Red)
and negative (Black)
either thru the ignition
or a switch for power on/off.

IMPORTANT: Use the supplied
ATC fuse holder with the red
butt connector, between on
the 12VDC red wire connection
to fuse the power to
the LED light whip.

INCLUDED WITH THIS WHIP KIT
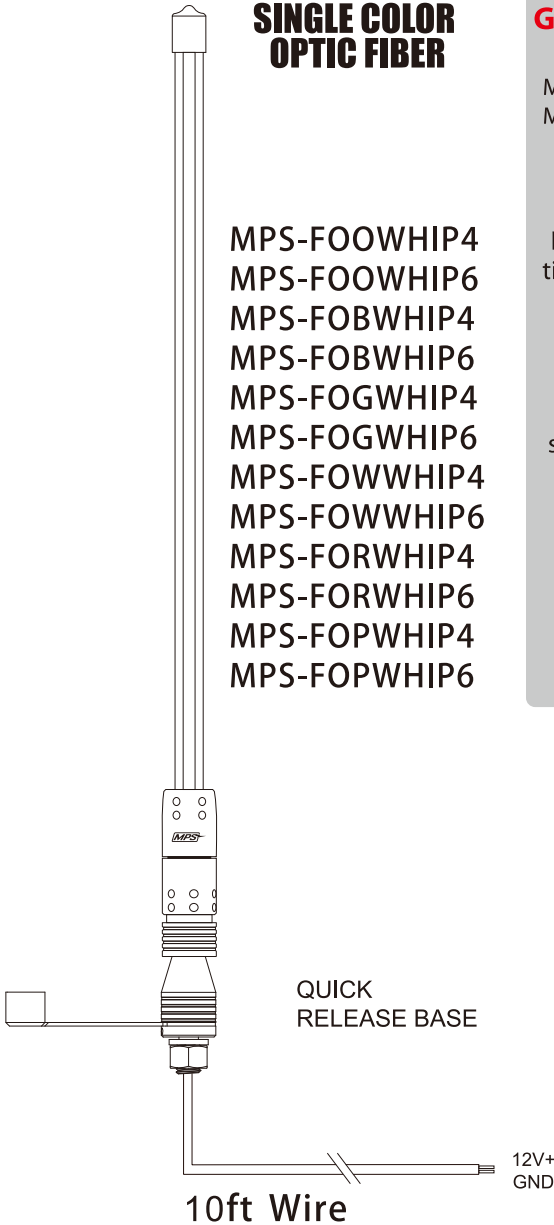
5Amp ATC Fuse

6inch 18AWG Red Wire

×1PC

Red 22/18 Gauge Butt
×1PC

Metra
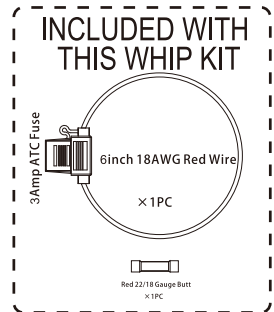POWERSPORTS

SINGLE COLOR OPTIC FIBER

GROUP 3

CONSISTS OF 12 MODELS
MPS-####WHIP4 (4 ft model)
MPS-####WHIP6 (6 ft model)

Single color fiber optic whip connect to 12VDC positive (Red) and negative (Black) either thru the ignition or a switch for power on/off.

IMPORTANT: Use the supplied ATC fuse holder with the red butt connector, between on the 12VDC red wire connection to fuse the power to the LED light whip.
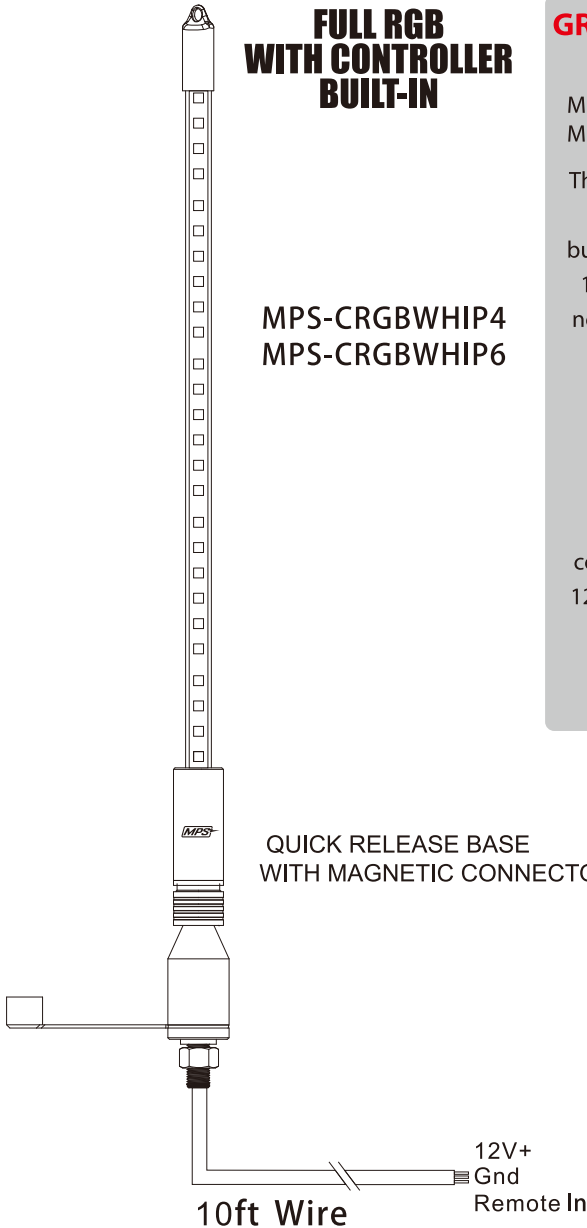
MPS-FOOWHIP4
MPS-FOOWHIP6
MPS-FOBWHIP4
MPS-FOBWHIP6
MPS-FOGWHIP4
MPS-FOGWHIP6
MPS-FOWWHIP4
MPS-FOWWHIP6
MPS-FORWHIP4
MPS-FORWHIP6
MPS-FOPWHIP4
MPS-FOPWHIP6

QUICK RELEASE BASE

12V+
GND

10ft Wire

INCLUDED WITH THIS WHIP KIT

3Amp ATC Fuse

6inch 18AWG Red Wire

×1PC

Red 22/18 Gauge Butt
×1PC

MeTra POWERSPORTS

INSTALL GUIDE:

FULL RGB WITH CONTROLLER BUILT-IN

MPS-CRGBWHIP4
MPS-CRGBWHIP6

QUICK RELEASE BASE
WITH MAGNETIC CONNECTOR
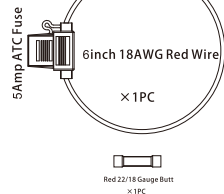
12V+
Gnd
Remote In

10ft Wire

GROUP 4

CONSISTS OF 2 MODELS
MPS-CRGBWHIP4 (4 ft model)
MPS-CRGBWHIP6 (6 ft model)

These RGB LED whips come with lighting controller built-in the base, connect to 12VDC positive (Red) and negative (Black) either thru the ignition or a switch for power on/off.

IMPORTANT: Use the supplied ATC fuse holder with the red butt connector between on the 12VDC red wire connection to fuse the power to the LED light whip.

INCLUDED WITH THIS WHIP KIT

5Amp ATC Fuse

6inch 18AWG Red Wire
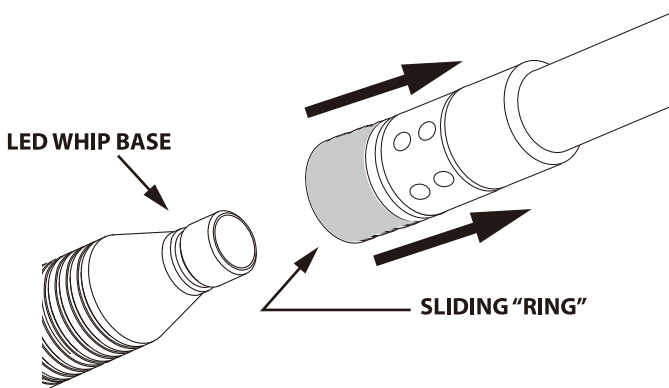×1PC

Red 22/18 Gauge Butt
×1PC

INSTALL GUIDE:

MOUNTING TO CHASSIS FRAME:

CAUTION! Permanent mounting of this product could require drilling. It is absolutely necessary to make sure that no other vehicle components could be damaged while performing this process. Like other wiring, brake lines, gas tanks, etc.

Check both sides of the mounting surface for obstruction visually before starting. If damage to other components is likely, select a different mounting location/position.

1. Remove the LED whip from the mounting base by sliding the locking ring up on the whip, releasing the locking mechanism, and pull the whip straight up. Refer to Diagram 1 (below)
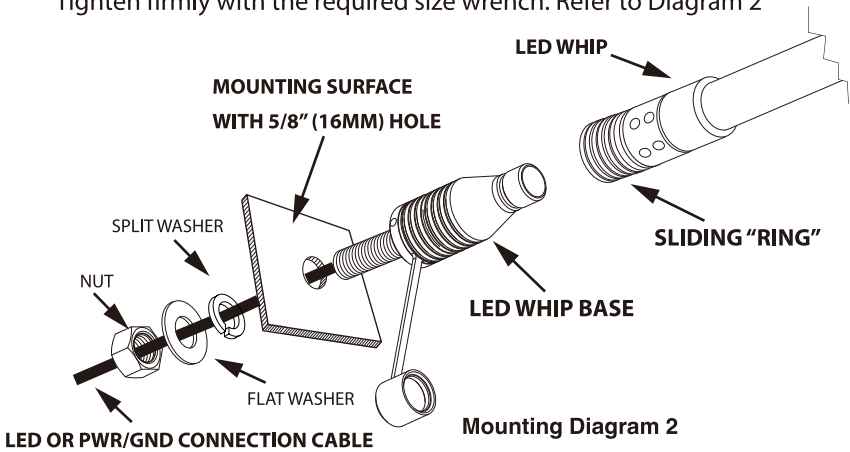

LED WHIP BASE

SLIDING "RING"

Mounting Diagram 1

2. Remove the nut, washer and split washer from the threaded post on the base. Refer to Diagram 2

3. Select the desired mounting surface.

4. Place the threaded base over the desired mounting surface, mark the area where the mounting hole is to be drilled. Confirm that no vehicle parts could be damaged by the drilling process.

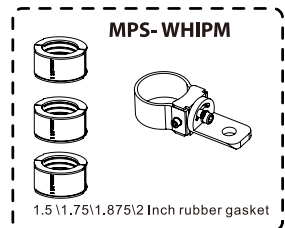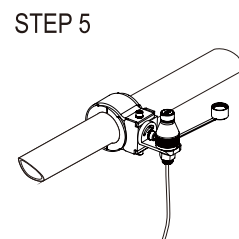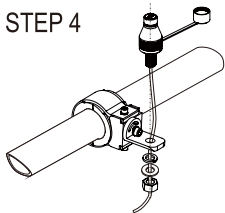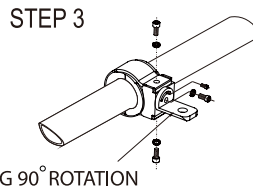5. Using a 5/8"(16mm) drill bit, drill the mounting hole, thoroughly de-burr the hole.
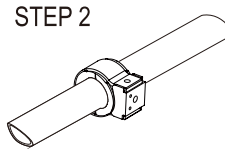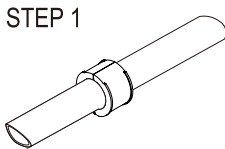
INSTALL GUIDE:

6. Pull the power or connection wires through the hole, then replace the flat washer, split washer and threaded nut back onto the threaded base. Tighten firmly with the required size wrench. Refer to Diagram 2
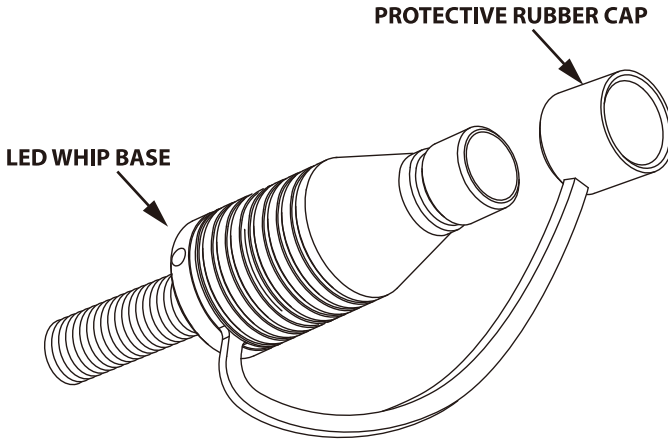
LED WHIP

MOUNTING SURFACE
WITH 5/8" (16MM) HOLE

SPLIT WASHER

NUT

SLIDING "RING"

LED WHIP BASE

FLAT WASHER

LED OR PWR/GND CONNECTION CABLE

Mounting Diagram 2

7. Reconnect the light whip by pulling up on the locking slide ring on the whip, reinsert the whip, on certain models the whip bases are "Keyed" and you might need to turn slightly right or left to match the keys and have the whip drop onto the electrical connection.

8. Attach the included "Warning Flag" to the whip using the included hardware. This flag is required in California and Arizona.

OPTIONAL LED "WHIP" MOUNT - MPS-WHIP (sold seperately)

STEP 1

STEP 2

STEP 3

LOCKING 90° ROTATION

STEP 4

STEP 5

MPS- WHIPM

1.5 \1.75\1.875\2 Inch rubber gasket

Metra
POWERSPORTS

PROTECTIVE RUBBER CAP

LED WHIP BASE

When not using the LED whip always place the supplied rubber cap over the output for the whip to protect the electrical connection from sand, dirt and water.

Wiring:
WARNING! All customer supplied wires that connect to the positive terminal of the battery must be sized to supply at least 125% of the maximum operating current and FUSED at the battery to carry that load.

RED - To 12V DC Power Source
BLACK - To Chassis Ground
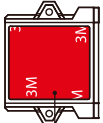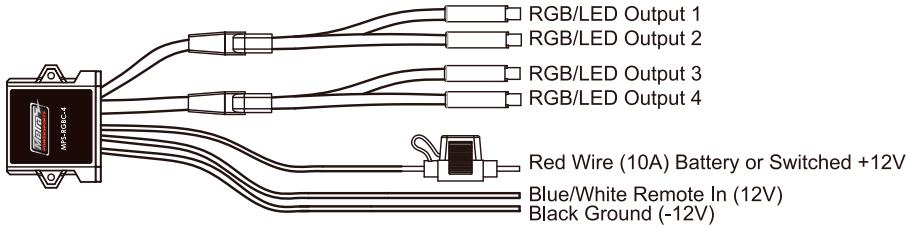
SPECIFICATIONS
Input Voltage:
- 11 - 14V DC

Input Current:

- 1.2m Whip Light: Green, Red, Orange: Current 3A, Power@ 13.8VdDC . 41.4 W

- 1.2m Whip Light: Pink, White, Blue: Current 4A, Power@ 13.8VdDC . 55.2 W

- 1.8m Whip Light: Blue, Green, White, Pink: Current 2.2A, Power@ 13.8VdDC . 30.3W

- 1.8m Whip Light: BRed, Orange: Current 2A, Power@ 13.8VdDC . 27.6W

MPS-RGBC-4 (sold seperately)

RGB/LED 4 OUTPUT CONTROLLER

RGB/LED Output 1
RGB/LED Output 2
RGB/LED Output 3
RGB/LED Output 4

Red Wire (10A) Battery or Switched +12V
Blue/White Remote In (12V)
Black Ground (-12V)

3M Tape on the back

NOTE: the MPS-RGBC-4 must operate at 11-14VDC. This controller can ONLY output 10A total current! Make sure to calculate LED current draw

INTRODUCTION

The MPS-RGBC-4 Mobile RGB LED Controller uses advanced PWM (Pulse Width Modulation) digital control technology for precise and accurate color control and management. The controller can ONLY be operated using the RGB MPS phone app. This app is available for both IOS and Android:

NOTE: The MPS-RGBC-4 must operate at 11-14VDC - Ensure you are using LED strips, OR speakers with LEDs which matches the output voltage/current of the controller.
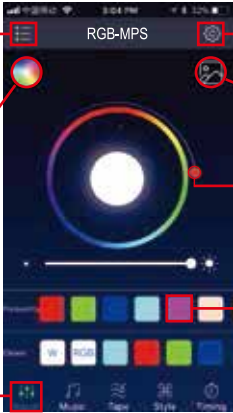
Click to show the controller list

Switch the color wheel

Frequent used color (can be changed)
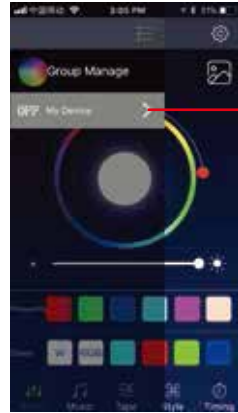
Classic colors

Click to shift the Functions

RGB-MPS

Click to display settings list
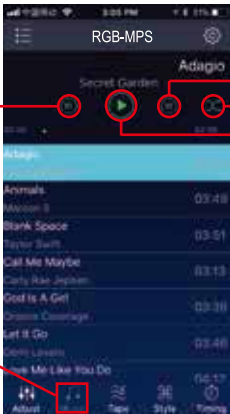
Pick up a color from the picture

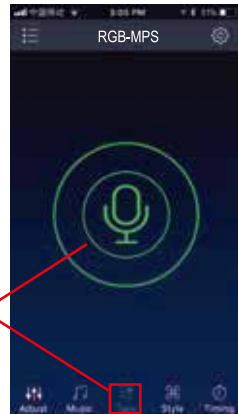Adjust the color

Click square icon to adjust the color

Group Manage

OFF My Device

Controller list

RGB-MPS

Adagio

Previous Track

Next Track
Random Mode
Pause or play

Color change according to the music via device play list

RGB-MPS

Color change according to the surrounding music via your device microphone

RGB-MPS

Seven color cross fade

Rolling selection mode

Adjust the speed

Please scroll to select equipment

00:00   Operation: OFF
00:00   Operation: OFF
00:00   Operation: OFF
00:00   Operation: OFF
00:00   Operation: OFF

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