

Fork Sliders

Cautions:

1. Motolights® are designed to be mounted on the FORK SLIDERS of your motorcycle. They are not to be confused with the FORK TUBES, which are highly polished and move in and out of the fork sliders. DO NOT mount Motolights® on the fork tubes.
2. Disconnect your battery. Never work on the electrical system of a motorcycle while the battery is connected. If you're not sure how, check your owner's manual, or consider having your dealer install the lights.
3. Motolights® , like any light, get hot when operating. Do not touch any part of the housing when the Motolights® are in operation and for at least 15 minutes after they have been turned off.
4. If you are transferring your Motolights® to another bike or have obtained the lights secondhand, it is VERY IMPORTANT that you contact us at 800-567-8346 or 513-474-7530 for new, correctly sized mounting straps. DO NOT MAKE ANY ATTEMPT TO ADAPT OLD STRAPS!

Parts List



1. (2) Housings, aluminum, assembled with lens, lamp and 33" leads
2. (2) Mounting posts, aluminum, left (marked) and right
3. (2) 1/2" Wide stainlesssteel fork straps ith attached stainless steel nut plates
4. (5) 5/8" Long stainless steel socket head cap screws (1 extra)
5. (1) Motolight black wiring harness with relay and 20 amp fuse
6. Motolight switch housing with rocker switch and 40" wire lead
7. (3) 1 x 1 Dual lock adhesive backed pads
8. (15) Black cable ties
9. (1) 3/16" Long arm hex wrench
10. (1) Scotchlok quick tap wire connector
11. (2) Motolight decals (1 helmet size, 1 regular)
12. (1) Rubbing alcohol cleaning pad
13. (1) Aiming tube

Mounting

Step 1 Unpack the Motolight® system. Take this chance to familiarize yourself with everything. [Click here](#) for a parts list.

Step 2 Locate on the fork sliders where you will mount the Motolights®. We suggest they be mounted between 12" and 24" off the ground. You need just a little more than 9/16" clear around the fork slider for the fork strap (#3) to go around. If the clearances are tight, wrap the end of the strap with tape so it won't scratch the fork. Feed the strap around the fork tube.

Caution: Do not pinch anything between the fork sliders and the fork straps. The straps are designed to go around the fork sliders only. Make sure the strap end with nut plate is next to the fork and the other end overlaps it (See photo). Install the other strap.

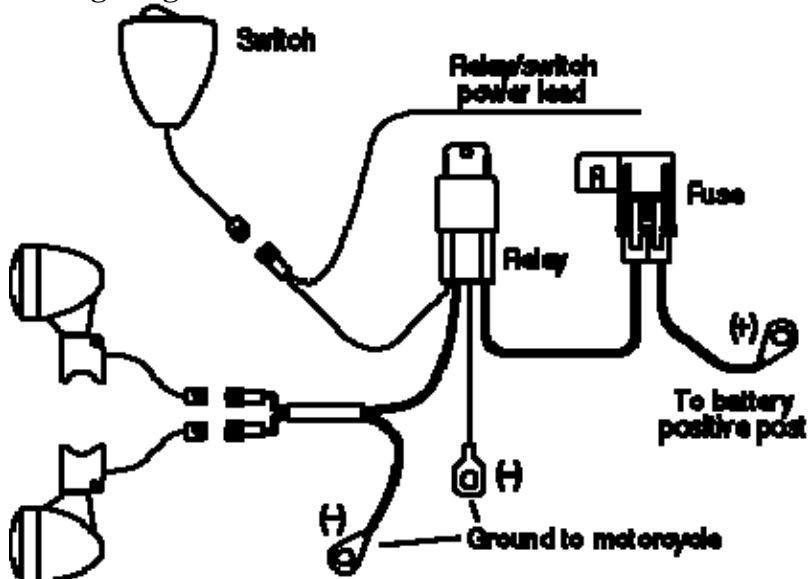
Step 3 Install the left and right mounting posts using the cap head screws. Use the hex wrench to tighten the cap screws securely. The left post is labeled with an "L". The posts must be mounted so that the pinch bolt is to the rear. The posts must be located on the fork such that an axis going through them lengthwise is perpendicular to the travel axis of the bike. If you have trouble eyeballing this alignment, slip the housing into the mounting post for a better reference.

Tighten the screw until you cannot move the mounting posts. If the mounting post does not tighten, call us at 1-800-567-8346 or 513-474-7530.

Note: On sets purchased prior to November 2000, the mounting posts require 1/4 20x9/16" long screw.

Step 4 Install the housings (#1) in the mounting posts. The housing fits flush in the mounting post hole. Use the socket head cap screw (making sure the wire lead is to the INSIDE of screw) and long arm wrench in the mounting post to tighten and create the pinching effect which holds the housing. Point them approximately level. Run the housing wire leads up to behind the headlight. Do not wrap them around the fork.

Wiring Diagram



Wiring Harness

Step 5 Install the harness (#7). **MAKE SURE THE BATTERY IS DISCONNECTED.** Look over the wiring diagram which details the harness. Since every bike is different, we'll give you a list of guidelines to work with.

5.1 When routing the harness, don't let any part of it rest against any part of the exhaust system or it will melt.

5.2 This harness is designed as a stand alone harness and not intended to be wired into your headlight circuit. When you turn the ignition on, the relay switch power lead (tapped into an ignition activated hot wire) energizes the relay and the Motolights® can now be switched on using the Motolight® switch. When you turn the ignition off on the bike the Motolights® go off.

5.3 If possible, tap the relay power lead into the tail light hot wire within the tail light assembly itself (see photo). This way the tap is sealed from the weather when you reassemble the rear light. Note: You may use another switched power source if the tail light is difficult to access.

5.4 There are 2 grounds, which must be grounded to the bike. Generally, the easiest place to attach them is the battery negative or follow the negative/ground cable from the battery to where it attaches on the motorcycle and attach the grounds there.

5.5 The terminal blocks for connecting the light leads and the switch lead to the harness are positive locking terminals which click together when properly mated.

5.6 Here is a checklist for complete installation of the harness.

1. Relay switch power lead quick tap (#12) connected into tail light hot lead, not ground.
2. Main power lead coming from fuse attached to "+" positive battery terminal.
3. 2 ground eyelets grounded to the motorcycle.
4. 2 housing wire lead terminals clicked into the harness, generally behind the headlight.
5. Switch wire lead terminal clicked into the harness.

Step 6 Mount the switch (#8). Once you have determined where you want to mount the switch, connect the terminal to the harness and make sure you have sufficient wire length. Clean about a 1" square spot where you will mount the switch with some soap and warm water. Take the alcohol pad and lightly rub the spot on the bike and the bottom of the switch housing and dry off. Peel off the backing from one of the pieces of Dual Lock (#9) and press it firmly to the bottom of the switch housing. Do the same thing for another piece at the spot you've cleaned off on the bike. Align the two pads and push firmly to lock them together. An extra piece of Dual Lock is included if you change your switch position.

Step 7 Turn on your ignition and test the Motolights® before you replace bodywork, seats, etc. If they don't come on, go through the checklist in Step 5.6.

Step 8 When everything is hooked up, cable tie the harness to the frame. Don't tie it to gas lines or any linkages.

Aiming, Final Check, and Maintenance

Step 9 Aim the lights. The bike should not be on the stand. You will need someone's help. Fit the Aiming tube (#13) over the front of the Motolight®. Loosen the pinch screw on the mounting post. Hold your level against the aiming tube and rotate the light until it is aiming very slightly downward (87 degrees on a digital level, just breaking the bubble on a traditional level). See photo. You can also rely on the old method of aiming lights at night against a wall (back about 25 feet). The center beam of the light should be the same distance above the ground as the light is from the ground. Tighten pinch screws.

Maintenance. Include inspection of your Motolight riding lights in your bike manufacturer's pre-ride check. Use Mother's or any high quality aluminum polish to return the shine to your polished Motolights®. Brushed finish use Formula 409 and black powder coat use W-D 40. Never spray high-pressure water directly at the switch (nor any other switch) or relay when washing the bike. When the bulb burns out, replacing it is a simple operation. Call us for your replacement bulbs.

Final Roadworthy Test

1. Are the Motolights® tight around the fork sliders?
2. Are the housings tight in the mounting post? Check to make sure the pinch screws are tight.
3. Is the harness cable tied out of the way of any moving parts or your feet?
4. Do the lights operate only when the ignition is on?
5. If everything checks out you're ready to go! Safe riding!
6. After several rides, recheck the lights for tightness.