



EFI LED Lower Wiring Harness Kawasaki



Installation Manual

PN: 12-9043

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Limited Lifetime Warranty

Baja Designs proudly offers a LIFETIME WARRANTY against manufacturer's defect on all of the products that we manufacture.

These are comprehensive warranties; other than the exclusions below – you're covered. If your LED or HID bulb burns out, you're covered. Additionally, cutting off our connector or changing your lenses does not automatically void your warranty.

EXCLUSIONS:

Installation errors, abuse, misuse or crash damage. You must be the original owner of the product and be able to supply proof of purchase.

Li-Ion or Li-Po Batteries: carry a 2 year warranty.

NiCad DSK Batteries: carry a 90 day warranty

Dual Sport Kit Switches: carry a 1 year warranty.

Baja Designs manufactures its own products as well as resells products manufactured by others. Baja Designs makes no express or implied warranties on products not manufactured by Baja Designs including without limitation any warranties or merchantability and fitness for a particular purpose. We will however, pass on all warranties made by the manufacturer, who has sole responsibility for performing such warranties.

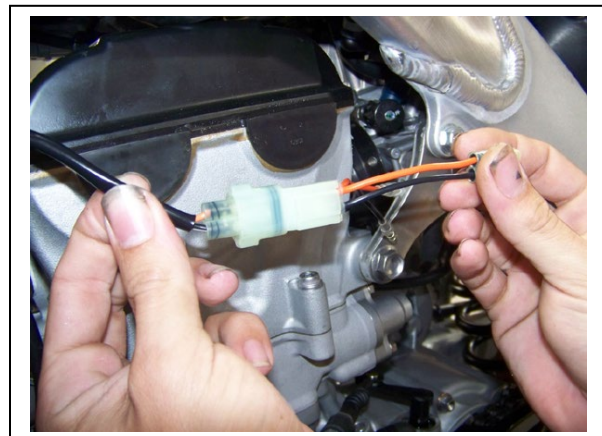
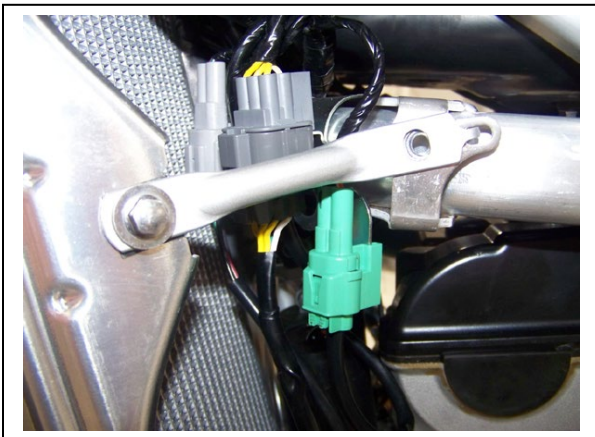
Baja Designs will pay the freight if your product is less than 90 days old, otherwise defective products must be returned to Baja Designs, Inc., freight prepaid. At our option, we will repair or replace items in question and return them at no charge. If the identical product is no longer available we will replace with a similar product of equal value. Baja Designs Inc. will not be responsible for any indirect or consequential damages in connection with defective merchandise.

Indemnification: Buyer hereby acknowledges off roading, racing and driving at night are dangerous activities and that the products and/or supplies purchased from Baja Designs are used in an inherently dangerous activity that may endanger life and limb; and in no event shall the seller, or seller's heirs and assigns, be held liable for consequential damages, nor shall seller's liability on any claim for damages arising out of or connected with the sale, delivery, or use of purchased products and/or supplies exceed the purchase price of the products and/or supplies.



The stator on the 09 KX450R EFI bike has enough power to run a 35w headlight bulb, a single 35w HID light, or the Squadron LED Light. It is essential that you keep your NiCad battery charged to ensure proper operation of the bike and light.

1. Start by removing the left side shroud and locating the green connector. Remove the green connector from the bracket by pushing the clip at the rear and sliding it down off the bracket.
2. You can now unplug the green connector and plug the Baja Designs lower harness in between these plugs. The Baja Designs connectors are white.

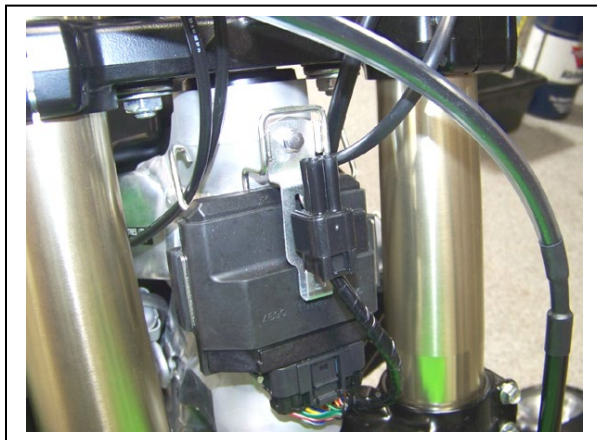


3. Route the harness up the left side of the frame through the factory wire guide, above the left radiator to the front of the steering neck.

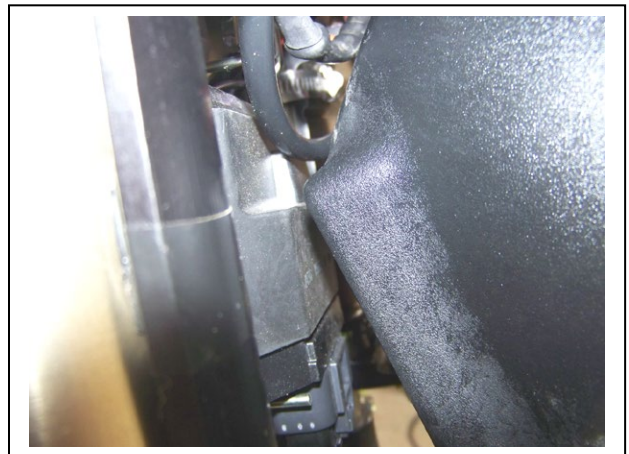


4. Remove the front number plate and front brake cable guide. An extended brake cable is highly recommended to ensure the cable does not interfere with the light or wiring or get bound up.

5. Locate the diagnostic port which sits in front of the ECU. Un-clip the diagnostic port and remove the bracket that was securing it for clearance. Re-route the diagnostic port so that it is out of the way and will not be crushed by the fork when turning lock to lock. Routing it down the left side and securing it to the other wires along the frame seems to work well.



6. Next you can install your light to your forks and ensure that you have clearance between the back of the racelight and your ECU. Make sure the steering turns lock to lock and ensure adequate clearance in all positions.





NOTE:

While the stator has adequate power for a 35w light there is a switching procedure for the system which you need to understand and utilize.

Toggle Switch Mounted on the Light – The 3 position toggle switch mounted to your race light connects the NiCad battery on our system to the bikes factory capacitor as well as operates the light. When the switch is in the middle position The light is OFF and the NiCad battery is disconnected from your stock charging system. In this position the lighting system has no affect on your stock system.

When the switch is in the forward position (towards light) it completes the circuit and allows the NiCad battery to charge while the bike is running. When the bike is turned off the switch needs to also be turned off so that the bike does not drain the NiCad battery by feeding power to the system even while the bike is not running. When the bike is off the toggle switch should be off as well.

When the switch is in the rear position (towards rider) the light will come on and the NiCad battery will be connected to your charging system.

In the event that the engine dies due to a stall or crash while the light is on, the light will continue to stay on until the NiCad battery is discharged or the switch is turned off. If the NiCad battery gets discharged you should start your bike with the switch in the off position (up). Once the bike is running move the switch to the charging position (middle) to allow the bike to charge the NiCad before



turning the light on (down position). It should only take a few minutes for the NiCad to charge enough to operate the light properly. It helps to rev the engine a little to speed up the charging process.

Finally secure all wiring with zip-ties so that it is neat and will not rub. Your installation is now complete.

TROUBLESHOOTING

Nothing Happens When You Turn the Power Switch On.

- Fuse is blown. Check for bare wire or terminal shorting against the frame or another wire.
- Bike won't start. Make sure the toggle switch is in the off position.
- Light won't stay on. Make sure the NiCad battery has adequate voltage (above 12 volts)
- Battery connection poor. Make sure the connectors are fully seated.
- Battery is dead. Measure voltage with voltmeter. If Nicad does not load test replace NiCad.

If you still need assistance, call Baja Designs at (760) 560 2252.

Maintenance: Occasionally examine the wires in your lighting system to make sure they are not chaffing or binding so that they don't cause you a problem when you're out on the trail. A well routed, properly secured wiring system is key to getting long life and trouble free performance.