



baja designs
Performance Lighting Systems Since 1992



Suzuki RMZ450/Kawasaki KX450F EFI LED Race Light Installation Manual

Baja Designs ♦ 185 Bosstick Blvd. ♦ San Marcos ♦ CA ♦ 92069

Phone 760.560.2252 ♦ Fax 760.560.0383

www.bajadesigns.com



baja designs
Performance Lighting Systems Since 1992

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 repair or replace any item manufactured by us that we judge to be defective in workmanship or material within 30 days of shipment. We will not be responsible for any indirect or consequential damages in connection with defective merchandise. Products used in racing, competition or damaged by crash, abuse, or misuse are not warrantable.

Indemnification: Buyer hereby acknowledges motorcycle riding is a dangerous sport 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.

Dual Sport Kit: Installation of a Baja Designs Dual Sport kit by itself does not make an off-road motorcycle street legal. Each state has different equipment requirements for street legal motorcycles, including but not limited to such items as DOT approved tires, left and right side mirrors, speedometers, quiet exhaust, chain guards, and side reflectors. Contact your state's department of motor vehicles or highway patrol for a comprehensive list of equipment that is required for street motorcycles before riding your bike on the street.

Street Riding: Riding a motorcycle on the street is very different than off road riding and requires special skills not learned off-road. Most states require an additional license beyond an automobile drivers license to operate a motorcycle on the street. Make sure to have the proper licensing and skills before riding your bike on the street.

Baja Designs recommends contacting the Motorcycle Safety Foundation (800 446-9227) for a rider course near you.

The stator on the RMZ450/KX450F EFI bikes have enough power to run a 35w halogen headlight bulb, a single 35w HID light, or our Squadron LED light.

1. Start by removing both shrouds and the tank. Locate the plug between the capacitor and the ECU. This should be located on the left side of the frame behind the motor mount.

2. Unplug the factory connector and install the new harness with mating plugs to the factory connectors. Route the harness to the front of the bike to the steering neck area.



3. 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.

4. 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.

Photo 2



Photo 3



5. Next you can install your headlight to the forks using the supplied straps that come standard on the Squadron LED light.

Photo 4



Photo 5

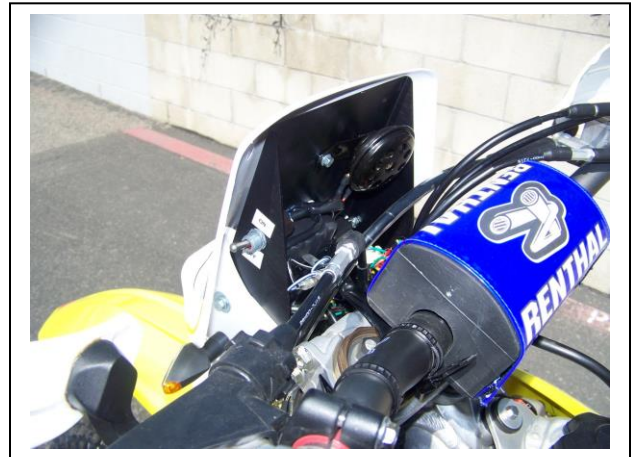


Photo 6



Photo 7



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.

LED On/Off Switch- Since your light is running off the stock capacitor your headlight will not come on if your RMZ450 is off. The bike must be running to operate the light.

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

If you still need assistance, please 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.

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, please 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 or on the road. A well routed, properly secured wiring system is key to getting long life and trouble free performance from your conversion kit.



Baja Designs • 185 Bosstick Blvd. • San Marcos • CA • 92069

Phone 760.560.2252 • Fax 760.560.0383 • info@bajadesigns.com

www.bajadesigns.com

December 2011