

# Cyron LED Headlight

*This DIY upgrade made a major improvement to our Softail's front lighting*

**T**HE FACT THAT HARLEY OWNERS SPEND LOTS OF CASH improving their bikes' appearance is no secret, but what puzzles me is why so few of us think of improving the bike's front lighting. Sure, most riders are only out in the sunshine, but a LED headlight not only greatly improves your ability to see when riding at night, it also makes it easier for others to see you during the day, especially if you get caught in the rain. We all know how much an approaching car equipped with LED headlights stands out from the rest of the pack even on a bright sunny day. And even in the looks department, that bright white light looks better than the slightly brownish color a stock headlight puts out. If you've been thinking of making a LED headlight upgrade, you should check out what the folks at Cyron offer.

Cyron has been in the lighting game for over a decade and offers a full line of solid-state lighting upgrades for motorcycles, cars, boats, and RVs, as well as industrial, commercial, and residential applications. It also provides quality lighting products for the film industry. Cyron is at the forefront in LED and other forms of advanced lighting technology, so it's no wonder it offers an excellent line of LED headlight and spotlight upgrades for Harley-Davidsons. Many companies know Harley owners want quality products for their bikes,



so it's worth it for a major lighting company like Cyron to make products for our segment of the buying public.

For this article, we installed Cyron's 7"-wide beam, DOT-approved, LED Urban headlight onto a 2005 Fat Boy. This model Cyron LED headlight will fit many Harley-Davidson Softails and Touring models that take a 7" headlight. Check out the Cyron web site for a full list of fitments. The Urban, which is available in black or chrome, also comes with built-in white and amber daytime running lights (DRL) that are behind two clear lenses. Of course, Cyron has a full line of powerful LED headlights and spotlights for many H-D models. As for how the Urban performs, this Cyron LED headlight puts out gobs more power over a wider coverage area compared to the stock headlight.

Our thanks to Rob at Rob's Dyno Service for doing this install for us. The photos and captions show you exactly what must be done and how easy it is to make this major upgrade to your bike's front lighting system.

## TOOLS NEEDED

- Tape (beam marker)
- Dielectric grease
- 1/8" diameter metal rod
- Pliers
- Wire strippers
- Crimping tool
- #2 Phillips screwdriver
- 9/16" wrench
- Heat gun



After putting a clean rag over your front fender, if you choose, remove the screw that holds the trim ring using a #2 Phillips screwdriver. Put the ring and screw aside for reinstallation later on.



**2** Then remove the three screws that hold the beauty ring to the headlight bucket using a #2 Phillips screwdriver. Set this ring and these screws aside for reinstallation later on.



**3** Disconnect the headlight harness from the back of the stock headlight. (The headlight will not be reused.) If you don't want to connect the daytime running lights, jump to step 14.



**4** Poke a 1/8"-diameter metal rod (clothes hanger) through the grommet in the housing to open it up and make room for the wire you need to thread through it next. Coating the rod with a little dielectric grease will help.



**5** Now poke an 18" length of 16-gauge wire through the rubber grommet and route it out of the left side of the triple tree covers.

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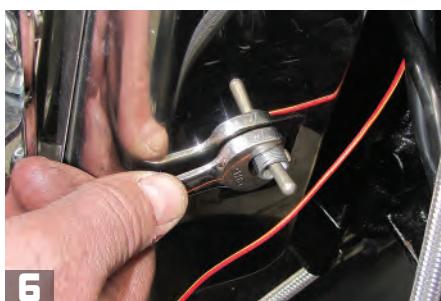
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### Aligning A Headlight

Aligning your headlight is easy. Start by making sure the tires are properly inflated. Then, with the bike upright in a normal riding position and with someone the same weight as you on the bike, measure the distance from the center of the headlight bulb to the pavement. For this example, we'll say that distance is 40", so multiplying 40" x 0.9 gives you 36", which is the height we'll need to place the beam marker in our example. Now find a relatively smooth exterior wall where the pavement is level and you can position your bike 25' perpendicular to the wall with nothing between your bike and the wall. Once it's dark out, put a 12"-long strip of any color tape that's not the same color as the wall onto the wall. Position the tape strip 36" (our example height) from the ground. Position your bike 25' directly perpendicular to the wall opposite the tape strip. You want your bike positioned so that if you were to drive straight forward your front wheel would touch the wall directly below the tape strip. Then, with the bike upright and you sitting on it, see where your headlight's low beam's main intensity hits the wall in relation to the tape strip. The top edge of the beam's well defined main intensity cut-off should be just touching the bottom of the tape strip. If it's not, adjust the headlight.



**6** Use pliers to remove the circular nut and a 9/16" wrench to remove the hex nut that hold the stock spotlight switch to the triple tree cover. Then pull the switch (it's powered by the ignition switch) from behind the cover.



**9** After twisting the two wires together, slip a 1" length of heat shrink over the wires. With a crimping tool, put a new blade connector onto the wires and then use a heat gun to shrink the tubing.



**7** Pull the yellow wire (the one that's activated when this switch is turned on) from the back of the switch.



**10** Plug the new connector onto the back of the switch. Make sure it's secure. Then reinstall the switch in the left triple tree cover.



**8** Using wire strippers, bare about 3/8" of the 16-gauge wire you just ran. Also use wire cutters to remove the blade connector from the stock wire you just pulled from the spotlight switch and bare about 3/8" of that wire.



**11** With the switch properly orientated in the cover, secure the switch using the stock nut and a 9/16" wrench. Then thread on the circular nut to lock it in place. Tighten it with the pliers.



**12** Cut the wire you installed so about 7" of it is in the headlight bucket and bare about 3/8" of the wire. Then install a female blade connector on the wire and a male connector onto the short red wire on the new LED headlight plug.



**13** Join the two connectors you just installed. Some people like to then wrap some electric tape over the two connectors.



**14** You can now just plug the new Cyron LED headlight to the bike's stock headlight harness. As for the red wire, which powers the daytime running lights, if you're not using them, you can leave it as is.



**15** Align the three tabs on the back of the new Cyron headlight to the three notches in the stock headlight bucket.



16

Now reinstall the stock beauty ring using the three stock screws and a #2 Phillips screwdriver.



17

There are two tabs on the top of the stock headlight bucket that have a small black plastic collar on them. Align these two tabs with the two slots in the top inner face of the headlight trim ring.



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The final step is to reinstall the stock trim ring using the stock screw and a #2 Phillips screwdriver.



19

Turn on the ignition and check the low and high beams to make sure they work. Check the top and bottom daytime running lights if you opted to activate them. **AIM**

### SOURCES

#### Cyron Inc.

Cyron LED Headlight, \$199.95  
888/297-6660  
CyronMotor.com

#### Rob's Dyno Service

978/895-0441  
RobsDyno.com

## MountainMaster.net

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