



Russ Wernimont Designs, Murrieta, CA
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RWD # 3217 LED Cat Eye Taillight (Drag Spec # 2010-0010)

The RWD Combination Cat Eye Taillight License Plate system uses bright Red “Run/Brake” LED lights with “Embedded Arrowhead” Amber flashing turn signals and LED License plate lights all mounted in a Chrome License mount frame that includes plug-in wiring for H-D factory stock 96-up Softails, 97-up Rubber mounts, and 99-up Sportsters. This system can also be spliced-wired to most motorcycles using run/brake taillights and separate turn signals.

Contents:

Qty	Description
1	Chrome Taillight assembly with extension wire & Instructions
1	Empty 5-Pin connector housing
1	6-Connector H-D wire interface assembly
2	Turn Signal extension wires
1	Plug-In Load Equalizer
4	Pr’s ¼-20 x 3/8” Hex bolts & Compression Washers
1	Dielectric grease Pak

RWD Custom mounting adapters available:

<u>Drag Spec. #</u>	<u>RWD #</u>	<u>Description</u>
2010-0011	RWD-260	Weld-in flush mounting “Bucket” for complete Taillight License mount
2010-0012	RWD-3181	Chrome Replacement Mount for all Stock Harley Davison “FL” series
2010-0013	RWD-3177	Chrome Surface mount for most custom and “OEM” fenders
2010-0014	RWD-3167	Weld-On Swing Arm Mount
2010-0047	RWD-FB9	“BOB-Tail” Fender Mount

Installation

CAUTION: A qualified service technician should assist with this installation if you are unfamiliar with motorcycle wiring.

“Plug-In” 96 -up H-D models (See Section “F” for splice-in applications)

A. Installation to Fender

1. Disconnect both battery terminals.
2. Remove any non-OEM wiring adapters, load equalizers, etc. from present taillight wiring under seat so the remaining wiring is H-D “stock”.
3. Remove seat.
4. Remove OEM Taillight and rear fender wiring and prepare to install Mounting Adapter of choice.
5. Trim license plate and re-size holes as needed to test fit taillight hole pattern.

6. Carefully press taillight wire into wire exit channel in back of taillight housing and thread the wires out through the wire exit hole of taillight mounting adapter.
7. With license plate in place, secure Taillight into mounting adapter with 2, ¼-20 bolts and washers. Torque bolts to 10 Ft/Lb max.
8. Carefully wrap together open connector pins with masking tape and thread taped end of taillight wire through fender wire clips or tubes (depending on type fender used) and route out of fender under seat area near main H-D harness connector for rear fender.
9. Bolt Taillight/Adapter set in place on fender and make sure rear wheel will always clear taillight wire.

B. Connecting Wires (If your bike does not have the large 8-pin matching connector, go to section “G”)

1. Insert empty 5-pin connector housing into mating 5-pin connector of H-D wire interface assembly
2. Remove masking tape on 5 taillight wire pins and loosely insert pins into empty housing so they match same color and sequence of interface connector wires.
 - a. Pin 1, Blue, Main Taillight Run Power (Powers ALL functions of Taillight operation).
 - b. Pin 2, Red, Brake signal.
 - c. Pin 3, **(MIDDLE PIN) BLACK GROUND WIRE.**
 - d. Pin 4, Violet, Left Turn Signal
 - e. Pin 5, Brown, Right Turn Signal
3. Starting with blue pin, carefully reinsert each pin so locking tab of pin is oriented to “snap” into pin lock of empty connector in the order of 2. a – e. color code.
4. Plug large white 8-Pin interface assembly connector into mating OEM connector from main harness
5. Plug small 5-pin connector from taillight into matching interface assembly connector.

C. Load Equalizer and Turn Signals;

1. Load Equalizer;

- a. If taillight is used with no additional rear turn signals, connect 3-pin connector from load equalizer into matching interface assembly connector to “balance” turn signal flasher load.
- b. If OEM or other external turn signals are used, test turn signal flashing function without load equalizer and only connect load equalizer if required to make turn signals flash correctly.

2. Turn Signals; Two turn signal extensions are provided to connect turn signals as desired.

a. If OEM or other side-mounted turn signals are used, splice the Violet extension wire to the positive turn signal lead and splice the Black extension wire to the negative turn signal lead.

b. Connect the small 2-pin turn signal extensions to matching interface assembly connectors.

NOTE, Reverse connections as needed to make right and left flash correctly.

Use Dielectric grease on all connector ends at final installation of all details.

D. Extra Power connector; An extra 2-pin accessory circuit power connector is included in the interface connector assembly for fender tip lights or other lighting accessories requiring “run” power.

E. Reconnect Battery and replace Seat

F. Test; All taillight and optionally wired turn signals should operate with run, brake, and turn controls. If the battery is low the taillight functions could malfunction until the engine is running.

G. Connecting Wires when your bike does not have the large 8-pin matching connector

1. Remove masking tape on 5 taillight wire pins.

2. Cut the pins off, and splice each wire according to the following color codes to the correct main harness wires for the taillight.

a. Blue, Main Taillight “Run” Power (Powers ALL functions of Taillight operation).

b. Red, Brake signal.

c. **BLACK GROUND WIRE.**

d. Violet, Left Turn Signal

e. Brown, Right Turn Signal

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