



# INSTRUCTIONS

J05495

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## AUXILIARY BRAKE/ RUN/ TURN SIGNAL CONVERSION KIT

### GENERAL

#### Kit Number

69461-06D

#### Models

For model fitment information, see the P&A retail catalog or the Parts and Accessories section of [www.harley-davidson.com](http://www.harley-davidson.com) (English only).

This kit is not compatible with a Narrow Rear Directional Bar (Part No. 68611-98).

#### NOTE

*Red turn signal lenses are not legal in all jurisdictions. Check regulations.*

### Installation Requirements

An Ultratorch UT-100 (Part No. HD-39969), Robinair Heat Gun (Part No. HD-25070) with Heatshrink Attachment (Part No. HD-41183), or other suitable radiant heating device is required for the proper installation of this kit.

Electrical Contact Lube (Part No. 99861-02) or equivalent is required after battery cable disconnection. This item is available from a Harley-Davidson dealer.

#### ⚠ WARNING

**Rider and passenger safety depend upon the correct installation of this kit. Use the appropriate service manual procedures. If the procedure is not within your capabilities or you do not have the correct tools, have a Harley-Davidson dealer perform the installation. Improper installation of this kit could result in death or serious injury. (00333b)**

#### NOTE

*This instruction sheet refers to service manual information. A service manual for this year/model motorcycle is required for this installation. One is available from a Harley-Davidson dealer.*

### ELECTRICAL OVERLOAD

#### NOTICE

It is possible to overload the vehicle's charging system by adding too many electrical accessories. If the combined electrical accessories operating at any one time consume more electrical current than the vehicle's charging system can produce, the electrical consumption can discharge the battery and cause damage to the vehicle's electrical system. (00211d)

#### ⚠ WARNING

When installing any electrical accessory, be certain not to exceed the maximum amperage rating of the fuse or circuit breaker protecting the affected circuit being modified. Exceeding the maximum amperage can lead to electrical failures, which could result in death or serious injury. (00310a)

This kit requires up to **4.5 amps** more current from the brake lamp circuit while brakes are applied.

### Kit Contents

See Figure 3 and Table 1.

### PREPARATION

#### Vehicles WITHOUT Security Siren

See the service manual to remove the seat. Retain the seat and all mounting hardware.

#### Vehicles With Main Fuse:

#### ⚠ WARNING

**To prevent accidental vehicle start-up, which could cause death or serious injury, remove main fuse before proceeding. (00251b)**

1. See the service manual to remove the main fuse.
2. Remove seat. Retain the seat and all mounting hardware.

#### Vehicles With Main Circuit Breaker:

1. See the service manual to remove the seat. Retain all seat mounting hardware.

#### ⚠ WARNING

**To prevent accidental vehicle start-up, which could cause death or serious injury, disconnect battery cables (negative (-) cable first) before proceeding. (00307a)**

#### ⚠ WARNING

Disconnect negative (-) battery cable first. If positive (+) cable should contact ground with negative (-) cable connected, the resulting sparks can cause a battery explosion, which could result in death or serious injury. (00049a)

2. Disconnect both battery cables, negative battery cable first.



## Vehicles WITH Security Siren

### NOTE

- **For 2007- later vehicles:**

With security fob present, turn ignition switch ON. After system is disarmed, turn ignition switch OFF. **IMMEDIATELY** remove the main fuse per the service manual. See the warning under **Vehicles WITHOUT security siren, Vehicles With Main Fuse**, earlier in this section.

Remove seat. Retain the seat and all mounting hardware.

- **For 2006- earlier vehicles:**

Disarm the siren with the key fob or security code. See the service manual to remove the seat. Retain the seat and all mounting hardware.

Remove the main fuse or battery cables. See the appropriate warning under **Vehicles WITHOUT security siren**, earlier in this section.

- **For ALL years:**

Turn the ignition switch OFF unless already done.

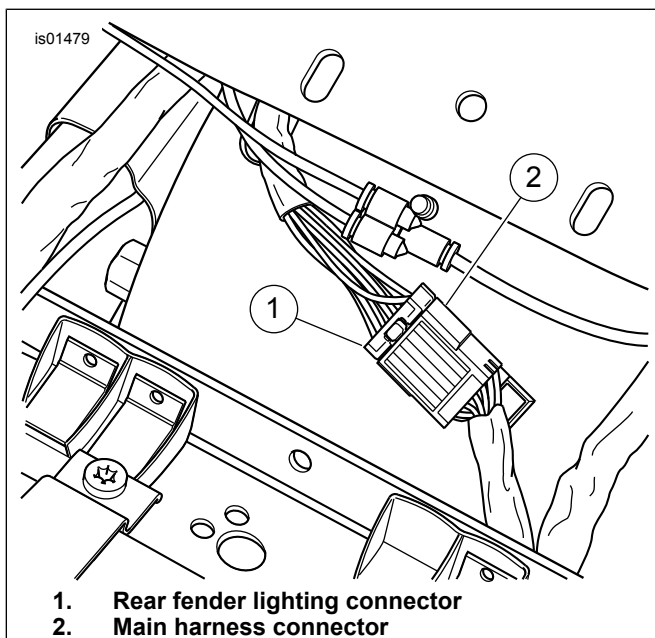


Figure 1. Typical Rear Fender Lighting Connector (FLHTC shown)

## INSTALLATION

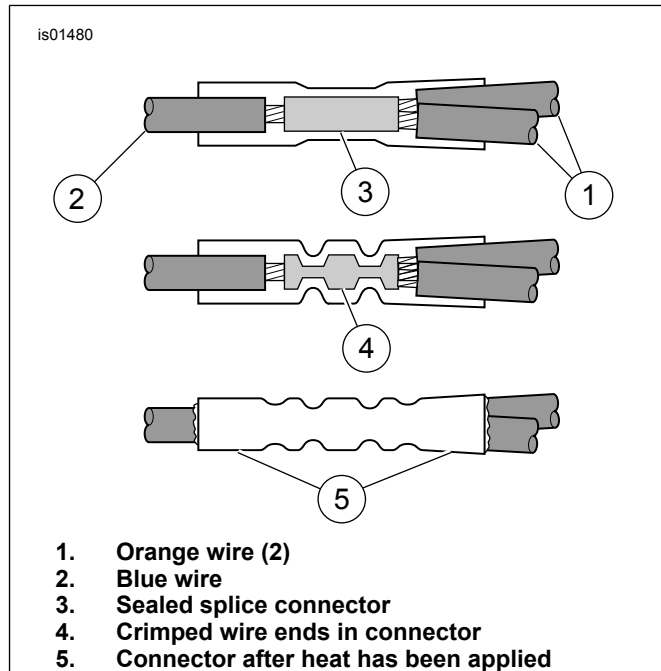
1. See Figure 1. Locate the rear wiring harness coming out of the rear fender in the area underneath the seat. Disconnect the rear fender wiring connector (1) from the main harness connector (2).
2. See Figure 3. Get the turn signal module (1) from the kit. Mate the module connectors to the connectors from Step 1. Snap into place.

### NOTE

Due to variations between models, there is no single best location to secure the module. When deciding on a location:

- Make sure that connectors and module are not bound when the seat is reinstalled.

- Make sure that wiring is not pinched when the seat is reinstalled.
  - Make sure to maintain clearance between the wiring harness and the rear wheel underneath the fender.
3. Use cable straps (5) from the kit to secure the module, connector and wiring in the area underneath the seat.



1. Orange wire (2)
2. Blue wire
3. Sealed splice connector
4. Crimped wire ends in connector
5. Connector after heat has been applied

Figure 2. Installing Sealed Splice Connector

### ▲ WARNING

Be sure to follow manufacturer's instructions when using the UltraTorch UT-100 or any other radiant heating device. Failure to follow manufacturer's instructions can cause a fire, which could result in death or serious injury. (00335a)

- Avoid directing heat toward any fuel system component. Extreme heat can cause fuel ignition/explosion. Death or serious injury could result.
  - Avoid directing heat toward any electrical system component other than the connectors on which heat shrink work is being performed.
  - Always keep hands away from tool tip area and heat shrink attachment.
4. **For 1997-1999 FLHR and FLHRCI models only:** The circuit to which the brake lamp connects must be revised. Follow these steps: When these steps have been completed, make sure that the total draw on the instrument circuit does not exceed 15 amps.
    - a. Reference the wiring diagram in the service manual appendix. Follow the blue wire from the stop lamp relay [124] to the main harness underneath the seat. Remove the cable strap holding the main harness to the frame .
    - b. Locate the orange wire from the instrument circuit at the fuse block. Follow the wire to the main harness.
    - c. Cut both blue and orange wires at a location convenient for splicing.

- d. Strip 9.5 mm (3/8 in) of insulation from each newly cut end of the orange wire. Strip 9.5 mm (3/8 in) of insulation from the cut end of the blue wire coming **from the stop lamp relay**. **DO NOT** strip the cut end of the blue wire coming from the main harness. This wire is no longer connected to the light circuit.
- e. See Figure 2. Insert the stop lamp relay blue wire (2) and the ends of both orange wires (1) into the sealed splice connector (3) from the kit.
- f. See the service manual appendix. Match the color of the connector with the color of the crimp cavity of the Crimp Tool (Part No. H-D 38125-8). Crimp the connector to all three wires with the Crimp Tool.
- g. See Figure 2. Using the Ultratorch UT-100 (H-D 39969), Robinair Heat Gun (H-D 25070) with Heatshrink Attachment (H-D 41183), or other suitable radiant heating device, heat the crimped splice to encapsulate the splice connection. Apply heat from the center of the crimp out to each end until the meltable sealant exudes out of both ends of the connector (5). Let the connector cool.
- h. Slide the shrink tube from the kit over the blue wire coming from the main harness. Heat the shrink tube to seal the bare end of the wire.
- i. Use cable straps from the kit to bundle and secure the main harness to the frame in the original position.

5. **ALL models:** Remove the screws from the original amber rear turn signal lens. Remove and discard the lens.
6. See Figure 3. Get one of the red turn signal lenses (2) from the kit. Install the red lens into the rear turn signal housing. Fasten with the original screws. Tighten securely. Repeat for the other lens.

## COMPLETION

### NOTE

To prevent possible damage to the sound system, verify that the ignition switch is **OFF** **before** installing the main fuse or attaching the battery cables.

## Vehicles With Main Circuit Breaker

### ⚠ WARNING

Connect positive (+) battery cable first. If positive (+) cable should contact ground with negative (-) cable connected, the resulting sparks can cause a battery explosion, which could result in death or serious injury. (00068a)

1. See the service manual to attach the battery cables (red positive cable first). Apply a light coat of petroleum jelly or corrosion retardant material to battery terminals.

## Vehicles With Main Fuse

1. See the service manual to install the main fuse.

## ALL models

### ⚠ WARNING

Be sure that all lights and switches operate properly before operating motorcycle. Low visibility of rider can result in death or serious injury. (00316a)

1. **ALL models:** Turn the ignition switch ON, but do not start the motorcycle. Check for proper lamp function:
  - With ignition switch ON, the left and right turn signal lamps and the center tail lamp are illuminated.
  - With brake lever or brake pedal actuation, the left and right turn signal lamps and the center tail lamp brightens.
  - With left or right turn signal actuation, the correct vehicle turn signal flashes.
  - With hazard warning (emergency four-way flasher) actuation, both turn signals flash.

### ⚠ WARNING

**After installing seat, pull upward on seat to be sure it is locked in position. While riding, a loose seat can shift causing loss of control, which could result in death or serious injury. (00070b)**

2. See the service manual to install the seat.

## SERVICE PARTS

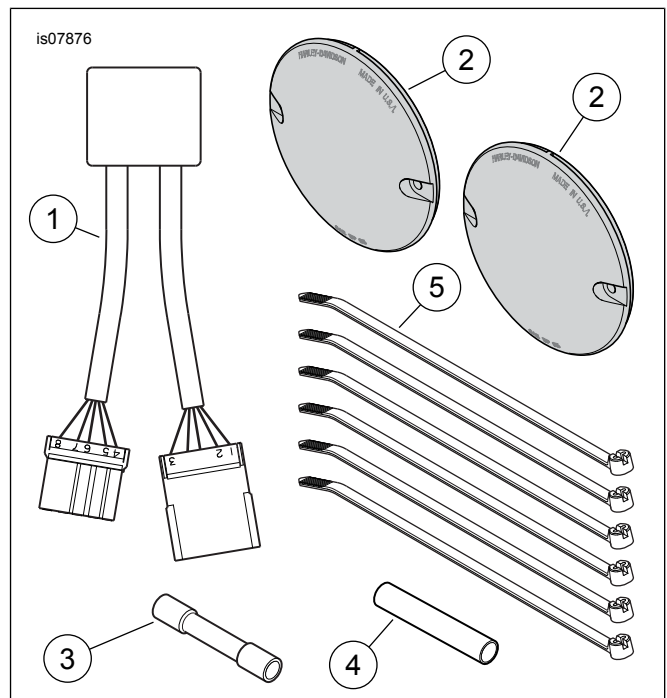


Figure 3. Service Parts, Auxiliary Brake/ Run/ Turn Signal Conversion Kit

Table 1. Service Parts

Item	Description (Quantity)	Part Number
1	Auxiliary brake/ run/ turn signal module	Not Sold Separately
2	Lens, turn signal (red) (2)	68458-88
3	Sealed splice connector, #10-12AWG (yellow)	70587-93
4	Shrink tube	72266-94
5	Cable strap (6)	10006