



# INSTRUCTIONS

J05531

2013-08-20



## EMERGENCY HEADLAMP AND STROBE KIT FOR FLHP/FLHTP POLICE MODELS

### GENERAL

#### Kit Number

67700222

#### Models

For model fitment information, see the Harley-Davidson Police and Fleet Motorcycle catalog or the Police and Fire/Rescue section of [www.harley-davidson.com](http://www.harley-davidson.com) (English only).

#### NOTE

*This accessory **must be removed** when vehicle is sold for non-police use. Follow all applicable federal, state and local regulations when changing to a civilian vehicle.*

#### 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 proper installation of this kit.

Electrical Contact Lube (H-D Part No. 99861-02) or equivalent is required after battery 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 and a Police Model service manual supplement for this year/model motorcycle are required for this installation. These manuals are available from a Harley-Davidson dealer.*

#### Kit Contents

See Figure 15 and Table 1.

#### NOTE

Use **only** the correct replacement headlamp bulb (Part No. 67074-02) and replacement strobe lamp bulb (Part No. 68692-02). Use of any other lamp bulbs may produce improper light levels.

### PREPARATION

#### 2014- later FLHP models ONLY

These models are equipped from the factory with a dual halogen headlamp. When switched to high beam, BOTH the low beam and high beam lamps are lit.

The strobing headlamp requires the low beam lamp to turn off when the high beam switch is activated.

- Use the following procedure to program the vehicle body control module to operate the strobing headlamp correctly.
  - Turn the ignition switch ON, but do not start the motorcycle.
  - Press and hold the LEFT TURN switch button. Press the Stealth Mode toggle switch 5 times **within 5 seconds**.
  - Verify that the low beam lamp is off when the high beam lamp is lit. Verify that the high beam lamp is off when the low beam lamp is lit. If not, repeat Step 1b.
- The headlamp mode change procedure in Step 1c can also be made using the Digital Technician diagnostic tool. Changing back to dual halogen mode can **ONLY** be done using Digital Technician.

#### ALL Models:

#### ▲ WARNING

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

#### NOTE

- 2007- later vehicles equipped with security siren:** 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.
- 2006- earlier vehicles equipped with security siren:** Disarm the siren with the key fob or security code. See the service manual to remove the main fuse.
- Vehicles WITHOUT security siren:** See the service manual to remove the main fuse.

#### ALL Vehicles With Main Fuse:

#### ▲ WARNING

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

- See the service manual to remove the main fuse.



## ALL Vehicles With Main Circuit Breaker:

### ⚠ WARNING

To prevent accidental vehicle start-up, which could cause death or serious injury, disconnect negative (-) battery cable before proceeding. (00048a)

1. See the service manual to remove the seat. Disconnect the negative (black) battery cable from the negative battery terminal. Retain all seat mounting hardware.
2. **ALL models:** Turn the ignition key switch OFF unless already done.

## REMOVAL

1. See Figure 1. Remove the Phillips-head screw (2) at the bottom of the chrome headlamp door (1). **2014- later FLHTP models:** Rotate the headlamp door counterclockwise. Remove the headlamp door. **All other models:** Remove the headlamp door. **All models:** Save the screw for later installation.

### NOTE

Remove the entire lamp bucket assembly (including headlamp) from the nacelle (FLHP models) or fairing (FLHTP models).

2. **FLHP Models:** See Figure 2. Remove the Phillips-head screws (1) securing the headlamp bucket to the nacelle. **FLHTP Models:** See Figure 3. Remove the four TORX® head screws (1) securing the headlamp bucket to the fairing. **ALL Models:** Gently pull the headlamp bucket out far enough to disconnect the wiring. Squeeze the two external tabs (if present) to remove the wire connector at the back of the headlamp bulb. Save the screws for later installation. Remove and discard the headlamp bucket.

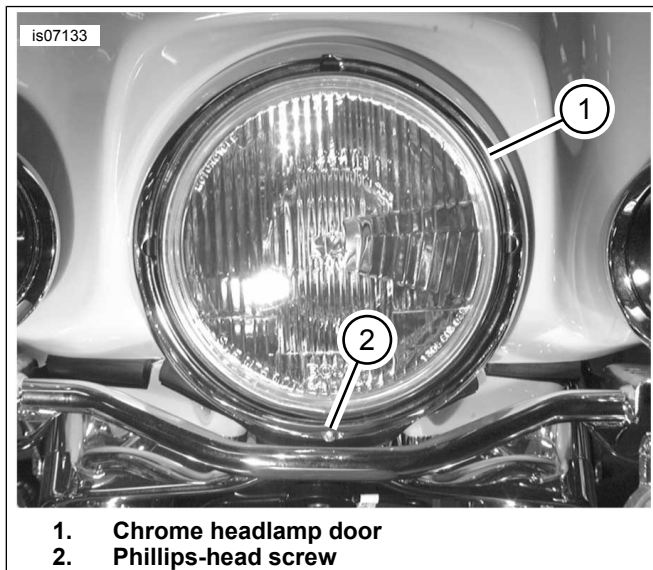


Figure 1. Remove Headlamp Door

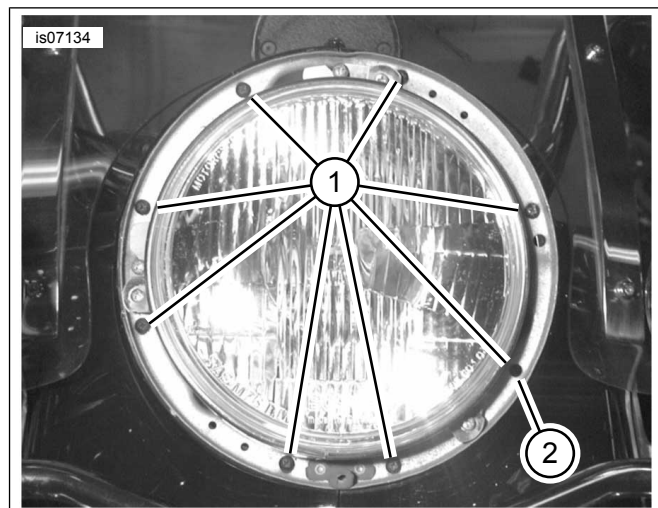


Figure 2. Headlamp Housing Mount (FLHP)

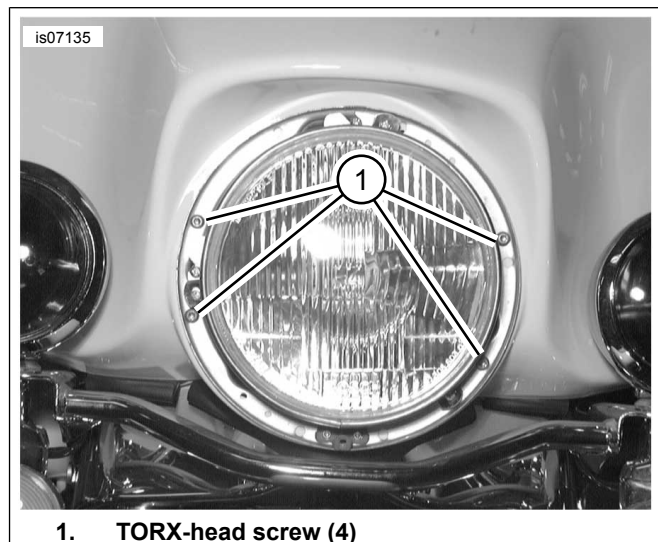


Figure 3. Headlamp Housing Mount (FLHTP)

## INSTALLATION

### ⚠ WARNING

The strobe lamp power supply is a source of high voltage. Inadequate safety precautions can result in death or serious injury.

Do not perform any service while the system is operating.

Wait 10 minutes after disconnecting the unit from the power source before servicing or troubleshooting on the power supply or system. (00097b)

Proceed to **Installation** for the specific model.

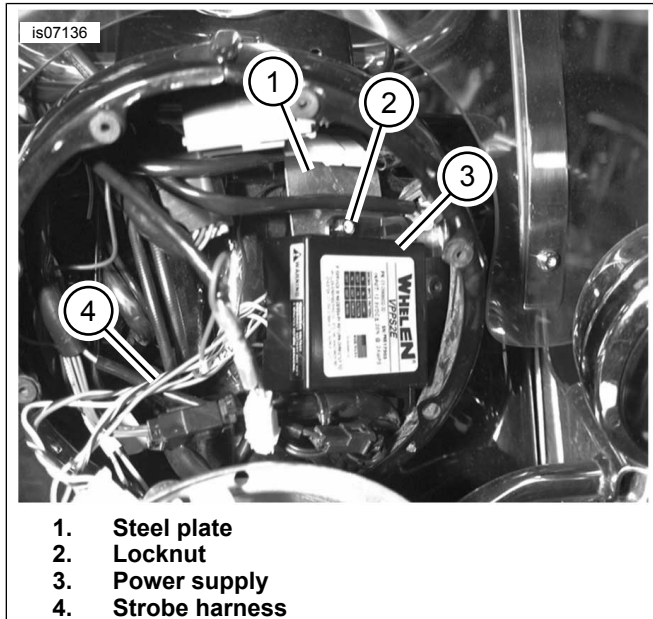
## Installation, 2013- Earlier FLHP Models

### NOTE

The power supply mounts to a steel plate inside the nacelle.

- Remove the fir tree-style wire retainer from the steel plate in order to use the hole for mounting the power supply.
- The hole in the steel plate is slightly larger than the hole in the power supply mount.

- When installing the power supply, it is not an exact fit. Manipulate the power supply into various orientations to find the optimal alignment and position.
- Even if the overall fit appears less than perfect, the power supply becomes secure when the hardware is fully tightened.

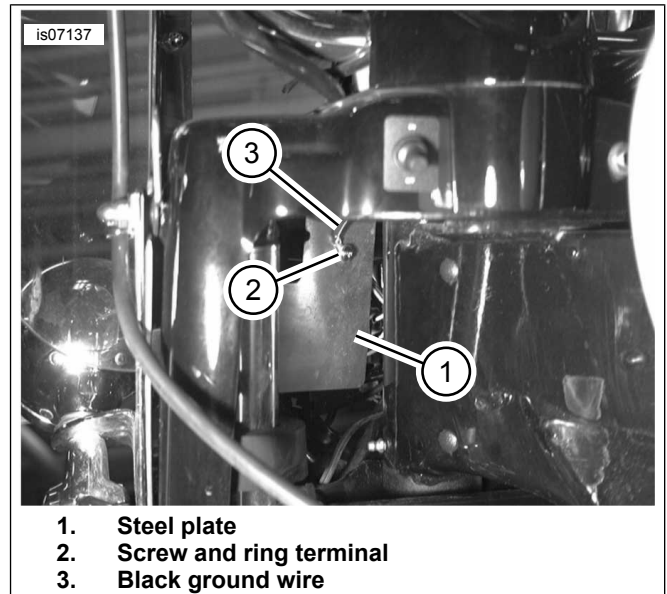


**Figure 4. Mount the Strobe Power Supply (2013- Earlier FLHP Models)**

1. See Figure 4. Locate the steel plate (1) to which the power supply (3) is mounted. Remove the black plastic fir tree-style wire retainer from the hole in the plate.
2. See Figure 15. Get the power supply (6), screw (9) and locknut (10) from the kit. Position the power supply over the steel plate (see Figure 4 ). Align the upper power supply mounting hole with the hole in the steel plate.
3. Install the screw up through the steel plate and power supply mount. Install the locknut (2), but do not fully tighten now.
4. Route the two strobe power supply harnesses, the red power wire and the black ground wire away from the power supply and free of the other wiring within the nacelle.
5. Get the ring terminal (7) from the kit. See the service manual appendix to install and crimp the terminal to the end of the black power supply ground wire.
6. See Figure 5. Remove the screw (2) and locknut loosely securing the power supply to the steel plate (1). Allow the power supply to rest in the nacelle. Route the black ground wire (3) with ring terminal to the back of the steel plate. Place the ring terminal onto the screw threads. Insert the screw through the steel plate and power supply. Install the locknut onto the screw threads. Tighten securely.

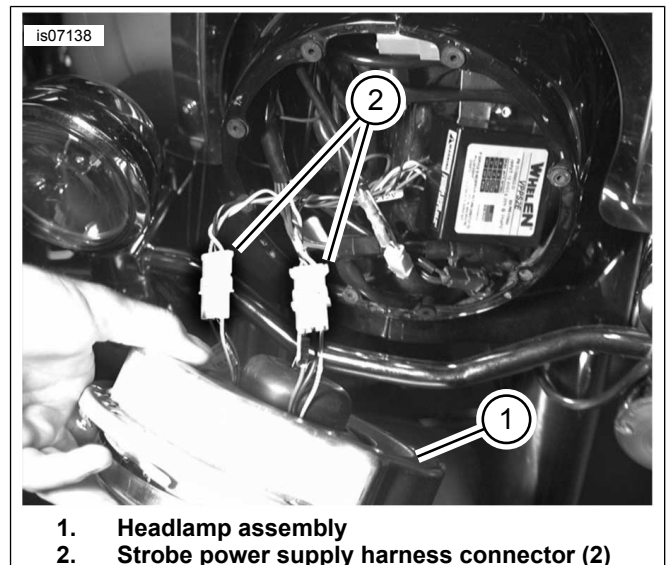
**NOTE**

Electrical connectors are identified in the service manual by the numbers and letters shown here **within brackets**.



**Figure 5. Install Ground Wire Ring Terminal (2013- Earlier FLHP Models)**

7. Locate the white two-way pursuit switch connector [73] inside the nacelle. Pull the connector and wiring away from the other wiring in the nacelle.
8. Locate the gray/violet wire in cavity 1 of the connector. Cut the wire about 50–76 mm (2–3 in) from the connector.
9. Get the sealed splice connector ( Figure 15, Item 8) from the kit. See the service manual appendix to splice the red power supply wire to the two gray/violet wire ends.
10. Carefully tuck the red and gray/violet wiring back into the nacelle, in and around existing wiring. Use cable straps (not provided) to secure the power supply as necessary.



**Figure 6. Install Strobe Harnesses to Headlamp (2013- Earlier FLHP Models)**

11. See Figure 6. Get the **new** headlamp assembly (1) from the kit. Plug the vehicle harness headlamp connector into the **new** headlamp bulb. Plug each three-pin connector from the strobe lamps into one of the strobe power supply harness connectors (2).
12. See Figure 2. Get the seven Phillips-head screws removed earlier, and seven **new** washers from the kit. Align the headlamp assembly to the opening in the nacelle. Install with the screws and washers. Tighten the mounting screws to 1–2 N·m (9–18 **in-lbs**).
13. Fit the headlamp door spring into the slot at the top of the headlamp housing. See Figure 1. Install the chrome headlamp door (1). Insert the Phillips-head screw (2) at the bottom. Tighten to 1–2 N·m (9–18 **in-lbs**).

## Installation, 2014- Later FLHP Models

1. Remove the seat and fuel tank per the service manual.

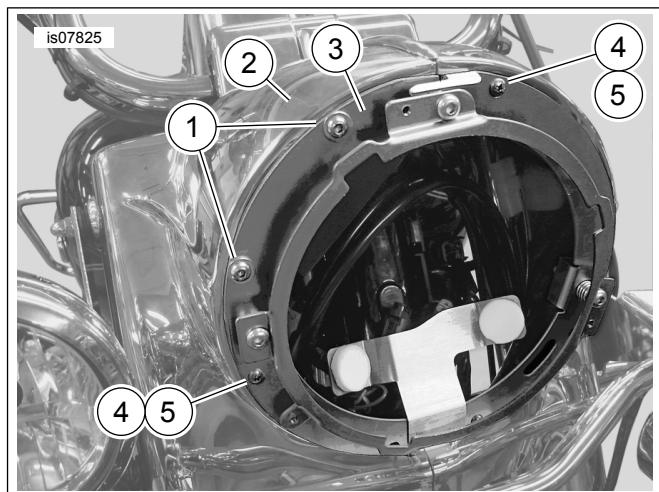
### NOTE

- *Electrical connectors are identified in the service manual by the numbers and letters shown here **within brackets**.*
  - *See the service manual appendix. Cut the high beam [C38HI] and low beam [C38LO] headlamp connector wires as close to the connectors as possible.*
2. Cut the high beam [C38HI] and low beam [C38LO] headlamp connectors from the vehicle harness.
  3. See Figure 15. Obtain the FLHP headlamp jumper harness (16) from the kit.
  4. See the service manual appendix to splice the vehicle headlamp wires to the jumper harness:
    - a. Blue/white high beam power wire to jumper harness white wire.
    - b. Black high beam ground wire to one jumper harness black wire.
    - c. Blue/yellow low beam power wire to jumper harness yellow wire.
    - d. Black low beam ground wire to remaining jumper harness black wire.

### NOTE

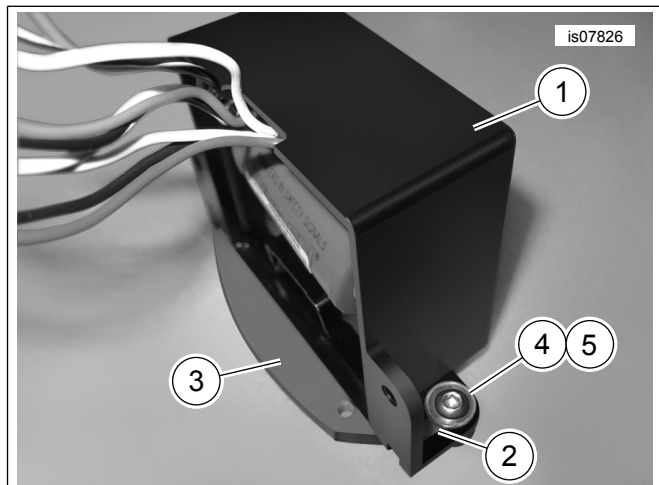
*Make sure that the strobe bulbs (3) do not fall out of the headlamp housing while handling the headlamp assembly (1).*

5. Disassemble the strobing headlamp from the mounting ring (5) by removing the three retaining ring screws (12). Retain the screws.
6. See Figure 7. Remove two well nuts from the headlamp nacelle (2) at the locations marked (1).
7. Install the strobing headlamp mounting ring (3) to the headlamp nacelle with six original equipment (OE) #6 screws (4) removed earlier, and six #6 flat washers (5) from the kit. Tighten the screws to 1–2 N·m (9–18 **in-lbs**).



1. Remove well nut from nacelle (2)
2. Headlamp nacelle
3. Strobing headlamp mounting ring
4. OE #6 screw (6)
5. #6 flat washer (6)

**Figure 7. Strobing Headlamp Mounting Ring (2014- Later FLHP Models)**

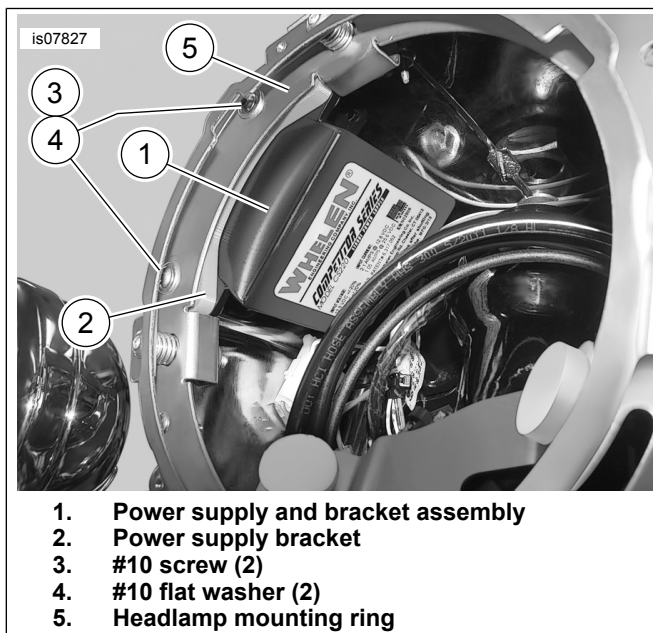


1. Power supply
2. Screw slot (2)
3. Bracket
4. #10 screw (2)
5. #10 flat washer (2)

**Figure 8. Strobing Headlamp Power Supply (2014- Later FLHP Models)**

8. See Figure 8. Mount the power supply (1) to the bracket (3) as shown with two #10 screws (4) and flat washers (5) from the kit. Make sure that the power supply is positioned at the bottom of the screw slots (2). Tighten the screws to 2.3–3.4 N·m (20–30 **in-lbs**).
9. Plug the power input harness into the power supply and route the wires out the rear of the nacelle.
10. See Figure 9. Mount the power supply and bracket assembly (1) behind the two screw flanges of the nacelle. Install two #10 screws (3) and flat washers (4) Tighten the screws (3) to 2.3–3.4 N·m (20–30 **in-lbs**).
  - a. through the headlamp mounting ring (5),

- b. through the nacelle flanges and
  - c. into the tapped holes in the bracket (2).
11. Route the power supply cable down the right side of the vehicle frame wire trough. Make sure that there is sufficient wire length. The cable must not pull tight when handlebar is turned fully to left or right fork stops.
  12. Strip the power cable covering at the rear of the wire trough to route The white wire is used to change the strobing pattern. It can be routed as desired
    - a. the black ground wire to the left frame ground stud, and
    - b. the red power wire into the left side cover area.
  13. See the service manual to install and crimp the ring terminal from the kit to the end of the black power supply ground wire.



**Figure 9. Headlamp Power Supply Installation (2014- Later FLHP Models)**

14. Attach the black wire ring terminal to the left frame ground stud.
15. Locate the pursuit flasher behind the left side cover, and the three way connector [C69B] plugged into the flasher. Unplug the connector from the flasher.
16. Select the blue/black wire in the connector. Strip back the conduit. Cut the blue/black wire about 50–75 mm (2–3 in) from the connector.
17. Get the sealed splice connector from the kit. See the service manual appendix to splice the red power supply wire to the two blue/black wire ends.
18. Plug the three way connector into the flasher.

19. Bring the strobing headlamp into position. Plug in the two strobe connectors.
20. Plug the headlamp harness into the headlamp bulb.
21. Secure the strobing headlamp wiring to the existing wiring with cable straps (not supplied). Make sure that there is sufficient wire length that the wiring does not pull tight when handlebar is turned fully to left or right fork stops.
22. See Figure 15. Install the headlamp (1) to the mounting ring (5) with the retaining ring (11) and three screws (12). Adjust the headlight alignment screws to gain more clearance if necessary.
  - a. Make sure that the strobes are fully engaged in the light assembly.
  - b. Make sure that the circular pads are pressed against strobe retention ears.
  - c. Make sure that there is clearance between the power supply housing and the headlight cone.
23. Fit the headlamp door spring into the slot at the top of the headlamp mounting ring.
24. Install the chrome headlamp door. Insert the Phillips-head screw at the bottom. Tighten to 1–2 N·m (9–18 in-lbs).

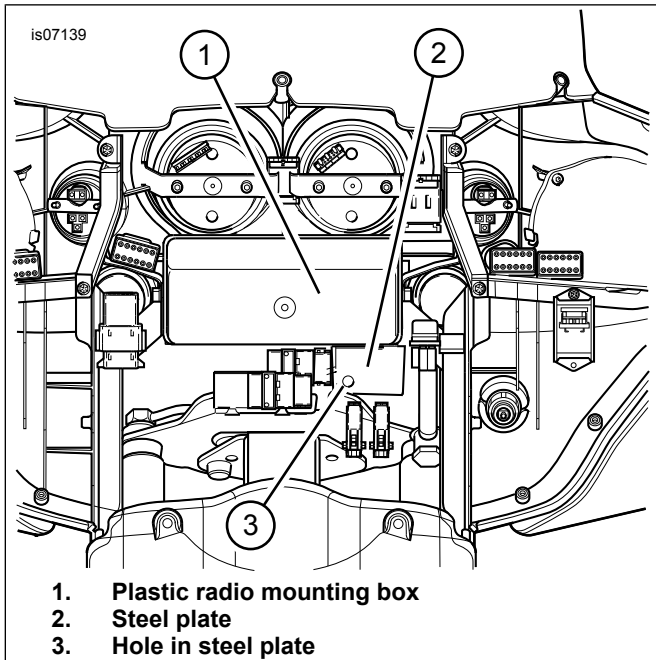
## Installation, 2013- Earlier FLHTP Models

1. See the service manual to remove the outer fairing and windshield.

### NOTE

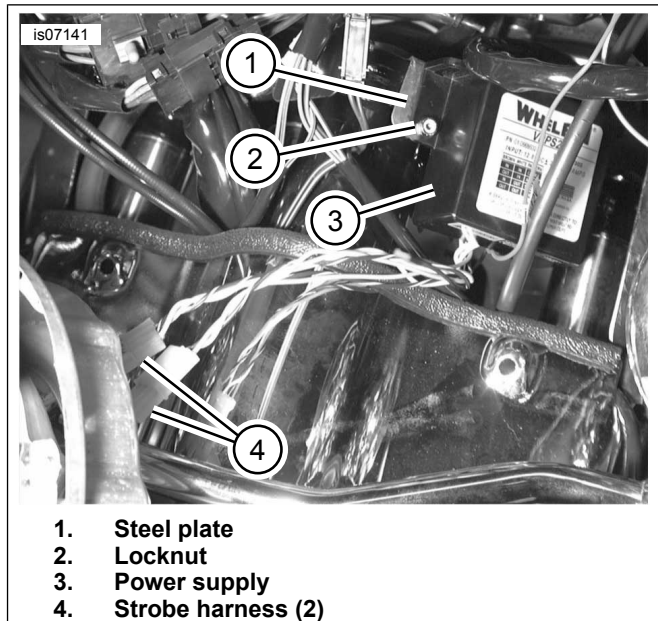
See Figure 10. The power supply mounts to the steel plate (2), directly under the plastic radio mounting box (1), immediately to the right of the steering head.

- The fir tree-style wire retainer must be removed from the steel plate in order to use the hole for mounting the power supply.
- The hole in the steel plate is slightly larger than the hole in the power supply mount.
- When installing the power supply, it is not an exact fit. Manipulating the power supply into various positions will be necessary to obtain the optimal alignment and position.
- Even if the overall fit appears less than perfect, the power supply becomes secure when the hardware is fully tightened.



**Figure 10. Locate the Steel Mounting Plate (2013- Earlier FLHTP Models)**

2. Locate the steel plate (2) to which the power supply mounts. Remove the black plastic fir tree-style wire retainer from the hole (3) in the plate.
3. See Figure 15. Get the power supply (6), screw (9) and locknut (10) from the kit. Position the power supply over the steel plate as shown in Figure 11. Align the mounting hole on the left side of the power supply with the hole in the steel plate.
4. Install the screw from the opposite side (under the fairing cap), through the steel plate (1) and power supply (3) mount. Install the locknut (2), but do not fully tighten now.
5. Route the two strobe power supply harnesses (4), the red power wire and the black ground wire away from the power supply and free of other wiring in the fairing.



1. Steel plate
2. Locknut
3. Power supply
4. Strobe harness (2)

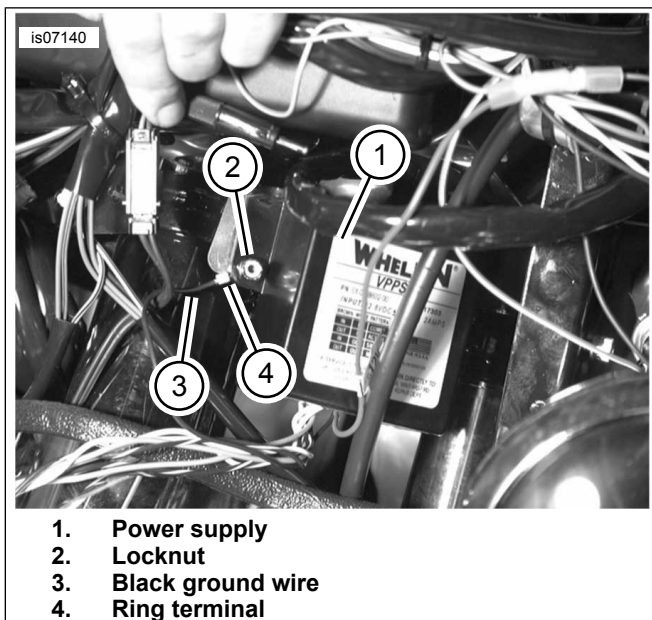
**Figure 11. Mount the Power Supply (2013- Earlier FLHTP Models)**

6. See the service manual to install and crimp the ring terminal ( Figure 15, Item 7) from the kit to the end of the black power supply ground wire.
7. See Figure 12. Hold the power supply (1) and securing screw in place. Remove the locknut (2). Place the black ground wire (3) ring terminal (4) onto the screw threads. Insert the screw through the steel plate and power supply. Install the locknut onto the screw threads. Tighten securely.
8. See Figure 13. Route the red power supply wire (4) upward and toward the right side of the plastic radio mounting box (1).

**NOTE**

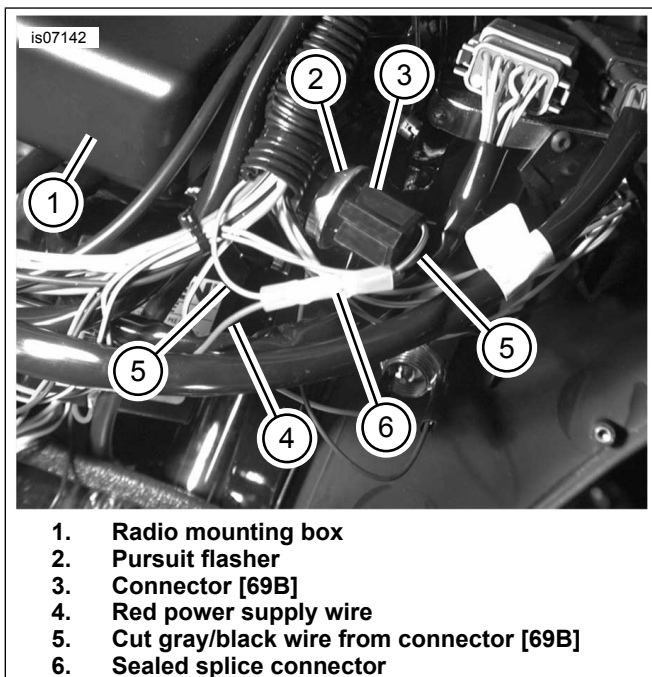
- The pursuit flasher is located to the right of the radio mounting box, secured to the fairing by a cable strap.
- Electrical connectors are identified in the service manual by the numbers and letters shown here **within brackets**.





1. Power supply
2. Locknut
3. Black ground wire
4. Ring terminal

**Figure 12. Install Ground Wire Ring Terminal (2013- Earlier FLHTP Models)**



1. Radio mounting box
2. Pursuit flasher
3. Connector [69B]
4. Red power supply wire
5. Cut gray/black wire from connector [69B]
6. Sealed splice connector

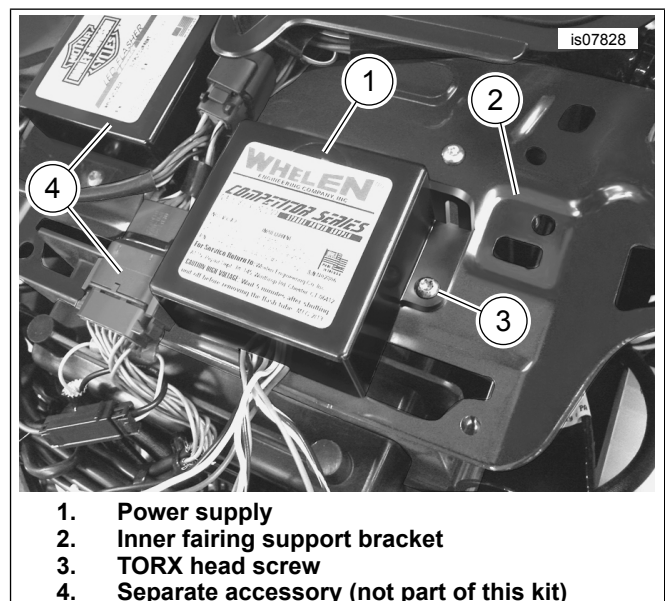
**Figure 13. Pursuit Flasher and Flasher Connector (2013- Earlier FLHTP Models)**

9. Locate the pursuit flasher (2) and the three-way connector [69B] (3) plugged into the flasher. Unplug the connector.
10. Select the gray/black wire (5) in the connector. Cut the wire about 100–125 mm (4–5 in) from the connector.
11. Get the sealed splice connector (6) from the kit. See the service manual appendix to splice the red power supply wire (4) to the two gray/black wire ends (5).
12. Plug the three-way connector into the flasher. Carefully tuck the wiring in and around the surrounding wiring.

13. Use cable straps (not provided) to secure all wiring in place. Make sure the wiring is not pulled or damaged when the fairing is installed.
14. Use cable straps to secure the power supply as necessary.
15. See the service manual to install the outer fairing and windshield.
16. Get the **new** headlamp assembly from the kit. Reach in through the headlamp opening in the fairing. Retrieve the headlamp connector and the two strobe harnesses coming from the power supply. Plug the vehicle harness headlamp connector into the **new** headlamp bulb. Plug each three-pin connector from the strobe lamps into one of the strobe power supply harness connectors.
17. See Figure 3. Get the four TORX head screws removed earlier, and four **new** washers from the kit. Align and install the headlamp assembly to the opening in the fairing. Tighten the mounting screws to 2.5–3.6 N·m (22–32 **in-lbs**).
18. Fit the headlamp door spring into the slot at the top of the headlamp housing. See Figure 1. Install the chrome headlamp door (1). Insert the Phillips-head screw (2) at the bottom. Tighten the screw to 1–2 N·m (9–18 **in-lbs**).

### Installation, 2014- Later FLHTP Models

1. Remove the windshield, outer fairing, seat and fuel tank per the service manual.
2. See Figure 14. Remove the TORX head screw (3) on the inner fairing support bracket (2) in the location shown. Position and mount the power supply (1) to the bracket with the screw. Tighten to 2.8–4 N·m (25–35 **in-lbs**).



1. Power supply
2. Inner fairing support bracket
3. TORX head screw
4. Separate accessory (not part of this kit)

**Figure 14. Headlamp Power Supply Installation (2014- Later FLHTP Models)**

3. Plug the power input harness into the power supply. Route the power supply cable down the right side of the vehicle frame wire trough. Make sure that there is sufficient wire length that the cable does not pull tight when handlebar is turned fully to left or right fork stops.
4. Strip the power cable covering at the rear of the wire trough to route. The white wire is used to change the strobing pattern. It can be routed as desired
  - a. the black ground wire to the left frame ground stud, and
  - b. the red power wire into the left side cover area.
5. See the service manual to install and crimp the ring terminal from the kit to the end of the black power supply ground wire.
6. Attach the black wire ring terminal to the left frame ground stud.
7. Locate the pursuit flasher behind the left side cover, and the three way connector [C69B] plugged into the flasher. Unplug the connector from the flasher.
8. Select the blue/black wire in the connector. Strip back the conduit. Cut the blue/black wire about 50–75 mm (2–3 in) from the connector.
9. Get the sealed splice connector from the kit. See the service manual appendix to splice the red power supply wire to the two blue/black wire ends.
10. Plug the three way connector into the flasher.
11. See Figure 15. Obtain the FLHTP headlamp jumper harness (17) from the kit. Plug the harness into the vehicle headlamp connector [C38B].
12. Using cable straps (not supplied) to secure all power supply wiring. Make sure that the wires are not pinched and will not chafe.
13. Install the outer fairing and windshield per the service manual.
14. Get the strobing headlamp assembly (1) from the kit. Reach in through the headlamp opening and retrieve the headlamp connector and the two strobe harnesses coming from the power supply.
15. Plug the two strobe connectors into the strobe bulbs. Plug the headlamp harness into the headlamp bulb.
16. Install the headlamp assembly to the opening in the fairing with the four screws removed earlier. Tighten the screws to 2.5–3.6 N·m (22–32 **in-lbs**).
17. Position the chrome headlamp door assembly onto the headlamp mounting ring with the screw hole in the five o'clock position. Rotate the assembly clockwise to engage the spring tab with the slot in the headlamp mounting ring. Secure the headlamp door with the OE screw. Tighten the screw to 1–2 N·m (9–18 **in-lbs**).

## RETURN TO SERVICE

### NOTE

Verify that the ignition key switch is **OFF** *before* installing the main fuse or attaching the negative battery cable.

1. **Models with main fuse:** See the service manual to install the main fuse. **Models with main circuit breaker:** See the service manual to attach the negative battery cable. Apply a light coat of petroleum jelly or corrosion retardant material to battery terminals.
2. Test the headlamp and strobe lamps for proper operation. If installed properly, the strobes will turn on and flash with the front emergency lamps.

### ▲ 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)**

3. See the service manual to install the fuel tank if removed. Install the seat.
4. Align the headlamp per the service manual.



## SERVICE PARTS

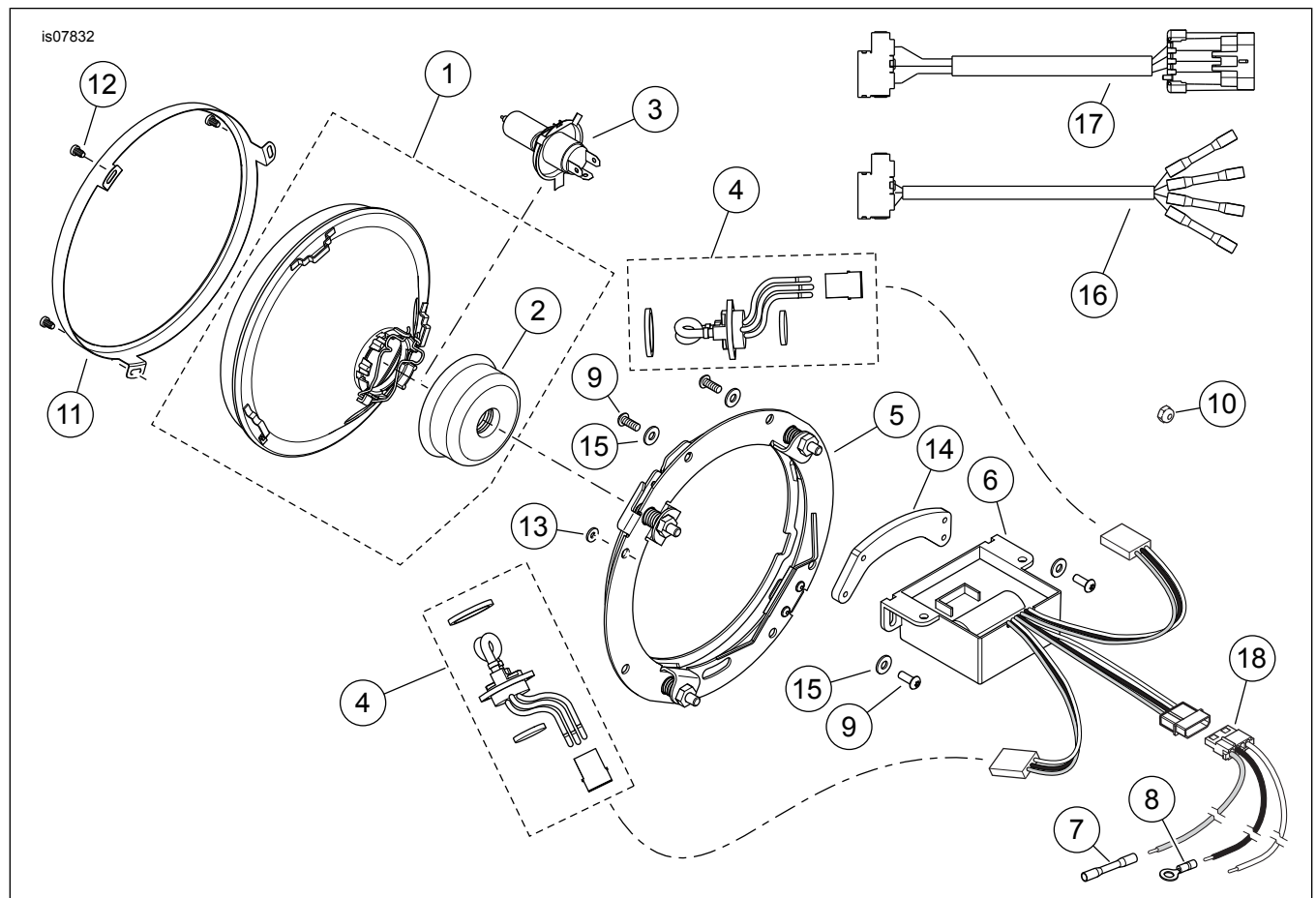


Figure 15. Service Parts, Emergency Headlamp and Strobe Kit

Table 1. Service Parts

Item	Description (Quantity)	Part Number
1	Headlamp assembly (includes Item 2)	67636-02
2	• Boot, headlamp bulb	Not sold separately
3	Bulb, headlamp, H4, Performance	67074-02
4	Bulb, strobe (2) (with separate connector)	68692-02
5	Mounting ring assembly, strobing headlamp	Not sold separately
6	Power supply	90051-02
7	Ring terminal, #16-22 AWG, for 6.4 mm (1/4 in) diameter stud	9858
8	Sealed splice connector (blue)	70586-93
9	Screw, TORX button head, #10-24 x 12.7 mm (1/2 in) long	2478
10	Lock nut, #10-24, with nylon insert	7624
11	Retaining ring, headlamp	67726-08
12	Screw, retaining ring (3)	67721-48
13	Washer (7)	6717
14	Bracket, power supply	Not sold separately
15	Flat washer, #10 (4)	6716
16	Headlamp jumper harness, FLHP models	Not sold separately
17	Headlamp jumper harness, FLHTP models	Not sold separately
18	Power input harness	Not sold separately