



INSTRUCTIONS

-J01347

REV. 8-3-98

Kit Number 68160-99

TOUR-PAK SPOILER LIGHT KIT

General

This kit is designed for installation on Tour Pak Spoilers, Part Numbers 53149-99 and 53150-99. Kit contents:

QTY	DESCRIPTION	Part No.
1	LED assembly	69633-99
4	Cable straps	10006
4	Clip, adhesive backed	10102
2	Screw, 10-24 x7/8 in.	2659
5	Butt connectors	70586-93
1	Ring terminal	9858

NOTE

A Service Manual for your vehicle is available from your Harley-Davidson dealer.

NOTE

Electrical Current Draw:

- Running Mode = 45.5 mA @ 13.8 Vdc
- Brake Mode = 290 mA @ 13.8 Vdc

⚠WARNING

When working on tour-pak with top open be sure to brace or tie top securely in open position. Heavy top can fall and injure hands or fingers.

⚠WARNING

To avoid accidental start-up of motorcycle, and possible personal injury, disconnect the battery cables (negative cable first) before performing any of the following procedures. If the positive cable should contact the ground with the negative cable installed, the resulting sparks may cause a battery explosion resulting in personal injury.

Installation

1. If the motorcycle was previously equipped with a Tour-Pak Spoiler Light, disconnect the light wires from the motorcycle.
2. Remove the Tour-Pak Spoiler from the Tour-Pak and disassemble original light or chrome trim (as equipped). Save the original mounting hardware for later installation.
3. Attach light assembly to spoiler using 10-24 x 7/8 in. long screws.
4. See Figure 1. Route light wires through 3/8 in. hole in Tour-Pak lid. Attach spoiler to Tour-Pak lid using original hardware removed in step 2.
5. See Figure 1. Attach the wires to the inside of the Tour-Pak with adhesive backed clips as shown. Route wires out front left corner of Tour-Pak bottom and support wires inside Tour-Pak bottom with the remaining adhesive backed clips as needed. Wires will exit out the bottom of the Tour-Pak through the antenna cable grommet.

NOTE

On Chopped Tour-Paks drill a 3/8 in. hole in the front left corner of the Tour-Pak bottom. Route the spoiler light wires through this hole for connection to the main motorcycle wiring.

6. On 1994 and later models, proceed to step 7 for wire connection instructions. On 1993 and earlier models, go to step 11 for wire connection instructions.

WIRING INSTRUCTIONS FOR 1994 AND LATER MODELS

7. Remove the seat and locate the accessory circuit connector. Route the light wires along the frame and secure with cable straps from kit.
8. Refer to the Deutsch connector section in a 1994 or later FLT Service Manual and assemble the spoiler wires into the socket connector half supplied with the LED assembly. The wire terminals shall be inserted in the connector half as follows:

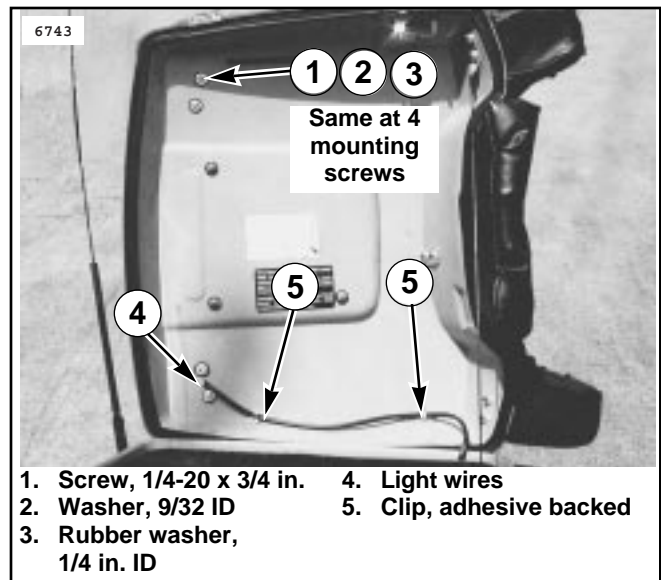
WIRE COLOR CODE	CONNECTOR CAVITY
Blue	1
Red/yellow	2
Sealing plug	3
Black	4

9. Remove the plug from the accessory connector located under the seat (connector number [4A] in wiring diagram in Service Manual). Connect wire from spoiler. Turn on ignition switch and test the spoiler light operation with taillight and brake light.

⚠WARNING

Always connect the positive battery cable first. If the positive cable should contact the ground with the negative cable installed, the resulting sparks may cause a battery explosion resulting in personal injury.

10. Reattach battery.



1. Screw, 1/4-20 x 3/4 in.
2. Washer, 9/32 ID
3. Rubber washer, 1/4 in. ID
4. Light wires
5. Clip, adhesive backed

Figure 1. Spoiler Mounting

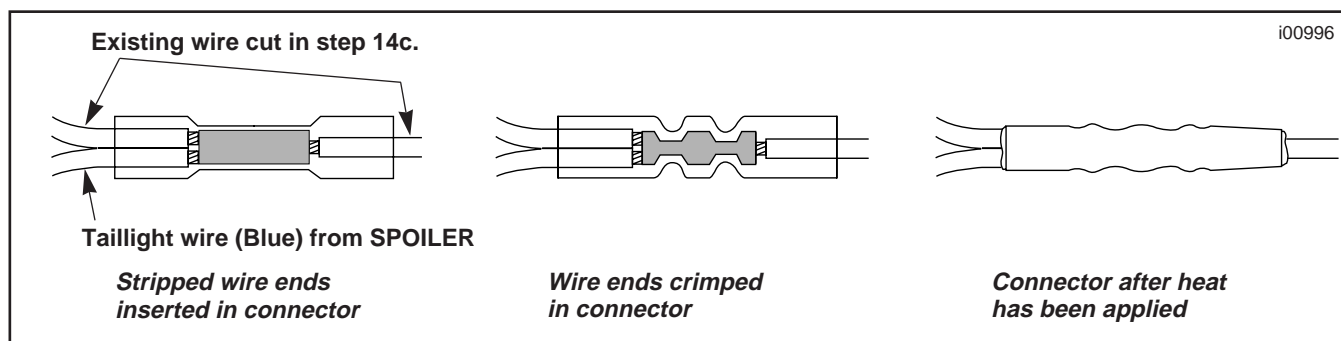


Figure 2. Install Sealed Butt Connectors (taillight splice shown, same procedure for stop lamp splice)

11. Reinstall seat.

⚠ WARNING

After installing seat, pull upward on front of seat to be sure it is locked in position. If seat is loose, it could shift position during vehicle operation and startle the rider, causing loss of control and personal injury.

Splicing Information (1993 and earlier only)

⚠ WARNING

To avoid accidental start-up of motorcycle, and possible personal injury, disconnect the battery cables (negative cable first) before performing any of the following procedures. If the positive cable should contact the ground with the negative cable installed, the resulting sparks may cause a battery explosion resulting in personal injury.

12. On 1993 and earlier models (which are not equipped with an under-seat accessory plug) it is necessary to splice the spoiler light wires into existing wiring. Butt splice connectors are included in this kit to splice the taillight and stop lamp wires of the spoiler into the existing taillamp wires.
13. Remove the seat and left side cover and locate the red and blue taillamp wires at connector. If you are unsure, see the applicable Service Manual wiring schematic for your model and year motorcycle.
14. Route the spoiler wires forward from the Tour-Pak along the frame and secure with cable straps from kit. Wires should be routed to area under left side cover.
15. Splice taillight (Blue wire on spoiler) and stop lamp (Red/Yellow wire on spoiler) into existing taillight and stop lamp wires as follows:
 - a. Cut the terminals off the three wires from the spoiler as close to the terminals as possible. These are only used for 1994 and later models.
 - b. Run the Blue and Red/Yellow spoiler wires to their corresponding taillight and stop lamp wires. Choose a convenient location to splice each of the spoiler wires into the existing taillight and stop lamp wires. Provide ample slack so the splices can be made easily.
 - c. At each of the two splice locations, cut the existing taillight and stop lamp wires. Strip a 3/8 in. section of insulation from both ends of each wire end to be spliced (there will be six wire ends total for the two splices).
 - d. See Figure 2. For each splice, insert wire ends into splice connector as shown.
- e. Match the color of the butt splice connector with the color of the crimp cavity of the crimping tool. Using a H-D 38125-8 crimping tool, crimp wires into the connector.

⚠ WARNING

- Use extreme caution when operating the UltraTorch UT-100 or any other radiant heating device. Read the manufacturer's instructions carefully before using the tool. Improper tool handling can result in personal injury.
 - Always keep hands away from tool tip area and heat shrink attachment.
 - Avoid directing the heat toward any fuel system component. Extreme heat can cause fuel ignition/explosion.
 - Avoid directing heat toward any electrical system component other than the connectors on which heat shrink work is being performed.
 - Be sure to turn the "ON/OFF" switch to the "OFF" position after use.
- f. 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 butt 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.
 - g. Locate a suitable fastener on the vehicle that can be used as a ground wire location.
 - h. Strip a 3/8 in. section of insulation from the black wire and crimp on the 1/4 in. ring terminal in kit. Fasten wire terminal to ground location. (It may be necessary to slice the spoiler wiring conduit to obtain needed wire length.)
16. Turn on ignition switch and test spoiler light for operation with taillamp and brake light.

⚠ WARNING

Always connect the positive battery cable first. If the positive cable should contact the ground with the negative cable installed, the resulting sparks may cause a battery explosion resulting in personal injury.

17. Reattach battery.
18. Reinstall left side cover and seat.

⚠ WARNING

After installing seat, pull upward on front of seat to be sure it is locked in position. If seat is loose, it could shift position during vehicle operation and startle the rider, causing loss of control and personal injury.