



INSTRUCTIONS

-J01364

REV. 4-02-02

Kit Numbers 53149-99, 53150-99

TOUR-PAK[®] SPOILER

General

This kit is designed for installation on Touring Model motorcycles equipped with chopped or King Tour Paks.

NOTE

Tour Pak Spoilers are available with a primed finish or painted to match stock colors.

Kit contents:

Kit Number 53149-99 (With Lights)

DESCRIPTION	PART NO.
Spoiler	
Hardware kit (contains following)	58700-99
LED assembly	68160-99
Cable straps (4)	10006
Clip, adhesive backed (4)	10102
Screw, 10-24 x 7/8 in. (2)	2659
Rubber washer, 1/4 in. ID (4)	57964-97
Washer, 9/32 ID (4)	6703
Gaskets (2)	68056-99
Rubber antenna guard	68125-88
Butt connectors (5)	70586-93
Screw, 1/4-20 x 3/4 in. (4)	923
Template	50001-01

Kit Number 53150-99

DESCRIPTION	PART NO.
Spoiler	
Hardware kit (contains following)	58612-99
Screw (2)	3631
Rubber washer, 1/4 in. ID (4)	57964-97
Chrome trim	Not sold
Washer, 9/32 ID (4)	6703
Gaskets (2)	68056-99
Rubber antenna guard	68125-88
Screw, 1/4-20 x 3/4 in. (4)	923
Template	50001-01

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

CAUTION

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.

Installation

1. Open Tour-Pak top and remove all loose contents.
2. Locate template, part number 50001-01, printed on 10 x 25 in. sheet of paper.

NOTE

The location of the Tour-Pak spoiler has a direct relationship to the location of Tour-Pak mounted luggage racks. The template will locate the Tour-Pak spoiler in the correct position for the following luggage racks:

Mini rack-Part No. 53100-96
Nostalgic-Part No. 53101-96
Premium-Part No. 53665-87

3. Identify if the installation of a Tour-Pak mounted luggage rack is desired in the future. Determine which of the above racks will be used and cut the template along the appropriate line.
4. Carefully place template on top of the Tour-Pak aligning edges of the template with top surface of the Tour-Pak. Tape the template to the Tour-Pak top in the desired location.
5. Drill a 1/16 in. pilot hole through the Tour-Pak lid at the locations shown on the template. Drill the holes to the finished size indicated on the template.
6. Locate gaskets from kit. Remove adhesive backing paper from gasket and attach gasket to spoiler at mounting locations.
7. If spoiler is equipped with combination tail/brake light, route light wires through hole in spoiler exiting the mount pad area. Attach light assembly to spoiler using 10-24 x 7/8 in. screws. If spoiler is not equipped with combination tail/brake light, locate chrome decorative insert and attach to the spoiler using self-tapping screws from kit.
8. See Figure 1. If spoiler is equipped with combination tail/brake light, route light wires through 3/8 in. hole in tour-Pak lid. Attach spoiler to Tour-Pak lid as shown. Place rubber washer against inside of Tour-Pak lid.
9. 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.

10. On 1994 and later models, proceed to step 11 for wire connection instructions. On 1993 and earlier models, go to step 15 for wire connection instructions.

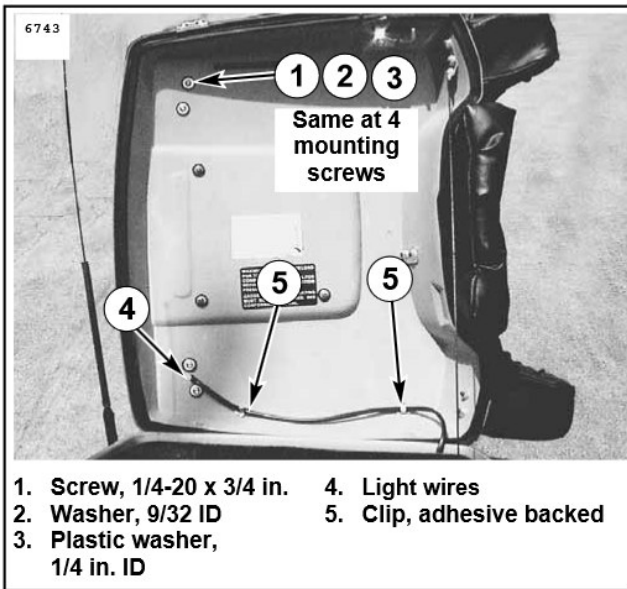


Figure 1. Spoiler Mounting

WIRING INSTRUCTIONS FOR 1994 AND LATER MODELS

- Remove the seat and locate the accessory circuit connector. Route the spoiler wires along the frame and secure with cable straps from kit.
- 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
- 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.

- 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 death or serious injury.

Splicing Information (1993 and earlier models only)

- 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.
- 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.
- 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.
- Splice taillight (Blue wire on spoiler) and stop lamp (Red/Yellow wire on spoiler) into existing taillight and stop lamp wires as follows:
 - 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.
 - 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.
 - 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).
 - See Figure 2. For each splice, insert wire ends into splice connector as shown.
 - 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.

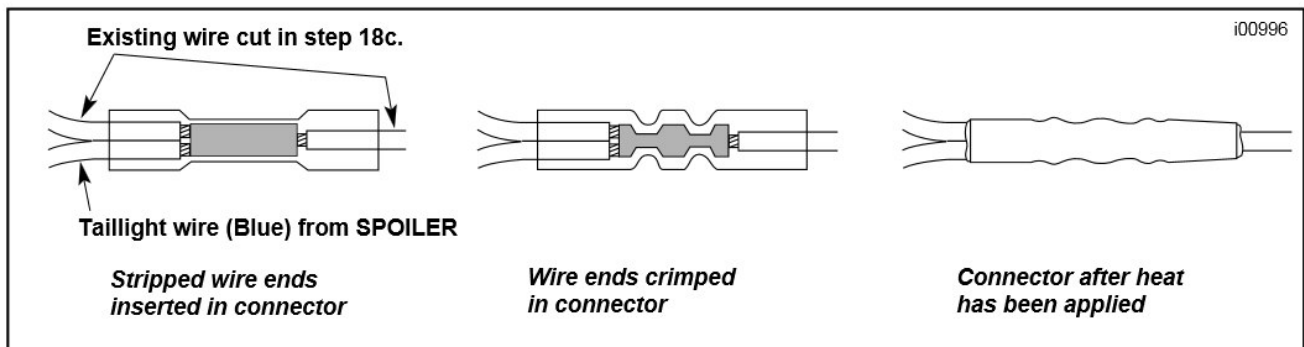


Figure 2. Install Sealed Butt Connectors (taillight splice shown, same procedure for stop lamp splice)

⚠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 death or serious 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 resulting in death or serious injury.
- 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.)
19. Turn on ignition switch and test spoiler light for operation with taillamp and brake light.
 20. 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 death or serious injury.