



INSTRUCTIONS

-J02479

REV. 7-12-2004

Kit Number 90715-03BDK

FLSTF SOFTAIL SADDLEBAG KIT

General

This saddlebag kit is designed to fit 1990 and later FLSTF (Fat Boy) model motorcycles. This kit will not fit bikes equipped with the following accessories:

Item	Part Number
Chrome 3-channel Luggage Rack w/handrail	53941-03
Chrome 3-channel Luggage Rack w/handrail	53465-87B
Chrome Rear Saddlebag Guards	49158-89D
Chrome 3-channel Luggage Rack/Fender Rack	53461-90
Flat Lens Turn Signal Kit	53461-90
	68432-95

Additional Kits Required

Detachables

Installing these saddlebags on models equipped with a Detachable sissy bar or detachable luggage rack requires the additional purchase of mounting hardware kit as follows:

Hardware Kit	Fitment
53075-03	2003 and later FLSTF models with detachables
53009-03	1987 through 2002 FLSTF models with detachables

WARNING

Additional weight can affect motorcycle stability, handling characteristics and safe operating speed. Do not exceed 7 lbs (3.2 Kg) maximum load in each saddlebag. Evenly distribute weight between each saddlebag. Improper loading may lead to instability which could result in an accident and death or serious injury.

Wide Tire

If a wide tire kit has been installed, utilize the hardware and installation instructions found in that kit to reorient the fasteners to route from the inside to the outside of the fender.

WARNING

Button head screws from wide tire kit must be installed from the inside out, with the button heads on the inside of the fender. Failure to do so could result in bolt contacting tire, which could result in death or serious injury.

See Service Parts Pages for a list of the kit contents.

Installation

NOTE

A Service Manual for your vehicle is available at any Harley-Davidson Dealer.

1. Remove seat.

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 battery cables, negative cable first.

Remove Turn Signals

3. See Figure 1. Refer to the Appendix covering Amp Electrical Connectors in applicable Service Manual and locate left and right signal wiring at turn signal connector under seat. Unplug connector and following instructions in Service Manual, remove terminals from connector.

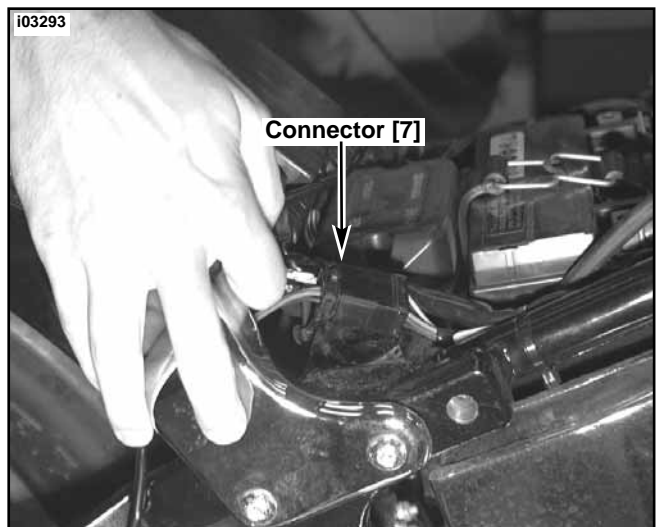


Figure 1. Remove Signal Wiring from Connector

4. **1990 to 1999 models:** Remove wiring from clips under fender (from signals to front of fender). Repeat for opposite side.

2000 and later models: Perform the following:

- a. Remove two screws securing tail/stop lamp lens assembly and remove lens assembly.
- b. See Figure 2. Disconnect left and right turn signal (2-Place) connectors from sockets. Refer to Appendix covering Amp Electrical Connectors and remove left and right signal wires from connectors. Save connectors for installation.
- c. See Figure 3. Remove turn signal wiring (running from signal to tail/stop lamp assembly from clip under rear of fender and pull signal wire out. Repeat for the opposite side.

NOTE

When performing procedures 5 through 7, completely perform procedures for one side before continuing to the opposite side. This will provide support for the fender during removal.

5. See Figure 4. Remove hardware securing right side strut and gently pull wiring out through fender.
6. Remove turn signal and standoff hardware from strut, then remove signal from standoff. Carefully pull signal wire out through standoff. Discard standoff.
7. Install fender strut using original hardware and snug into place.
8. Repeat Steps 5 through 7 for the opposite side.

Install Saddlebag Supports

NOTE

If Wide Tire Kit is installed, refer to Instruction Sheet provided with Wide Tire Hardware Kit Number 90299-00.

Select the correct hardware to complete the next steps.

When installing these saddlebags without detachables select the correct screw provided in the saddlebag kit:

1990 to 2002 models- 3/8"-16 x 1 5/8" socket head screws (Part Number 4371 WA)

2003 and later models- 3/8"-16 x 1 3/8" socket head screws (Part Number 1002)

When installing these saddlebags with detachables select the hardware provided in kit:

1990 to 2002 FLSTF models- 3/8"-16 x 2 1/2 screws (Part Number 53009-03).

2003 and later FLSTF models- 3/8" - 16 x 2 1/4 screws (Part Number 53075-03).

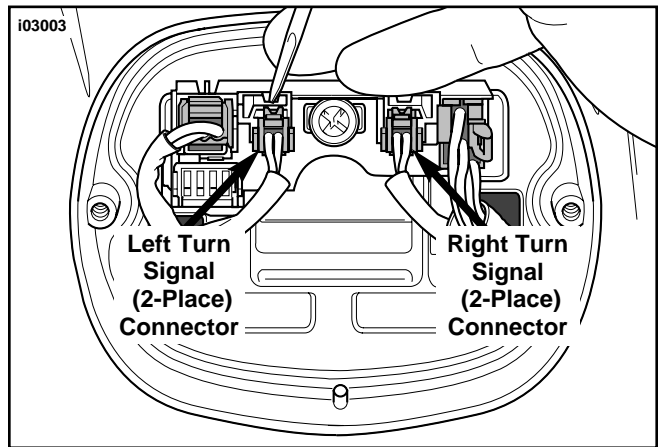


Figure 2. Disconnect Turn Signals (2000 FLSTF Shown)

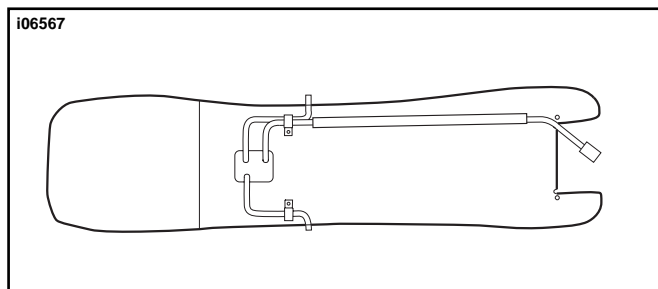


Figure 3. Remove Signal Wires from Clips (under fender) running from signal to tail/stop lamp assembly

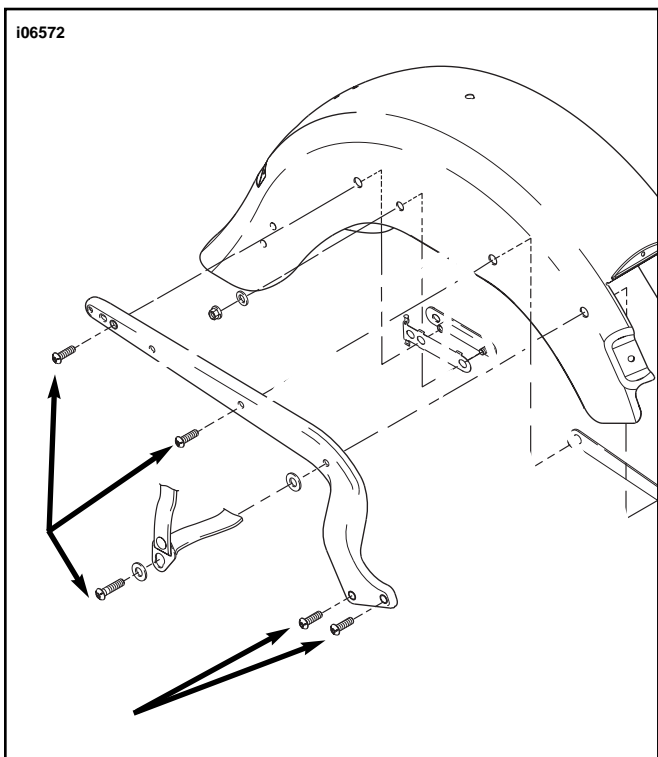
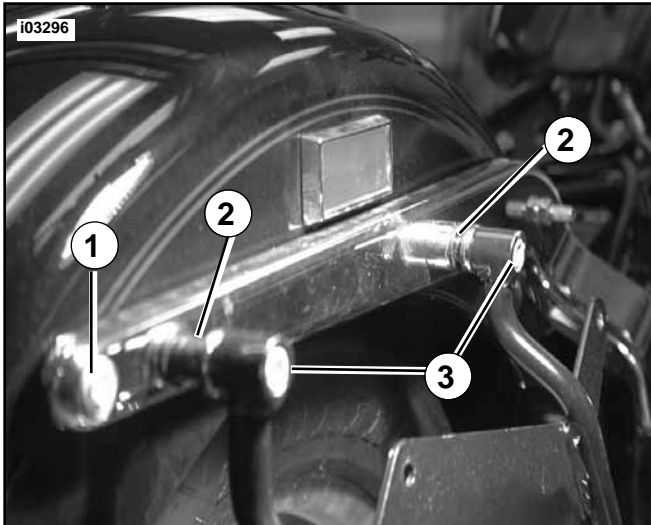


Figure 4. Remove strut mounting hardware (2003 model shown)

⚠ WARNING

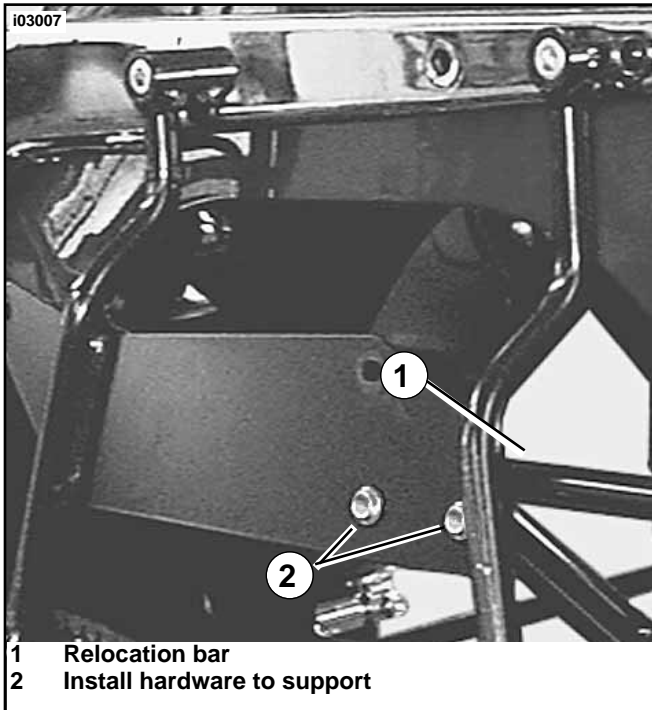
Do not use the 2-1/2 inch screws if docking hardware is not present. Tire damage may occur which could lead to an accident resulting in death or serious injury.



- 1 Press chrome covers into original signal mounting holes
- 2 If docking hardware is installed, install docking points between strut and support
- 3 Saddlebag support screws

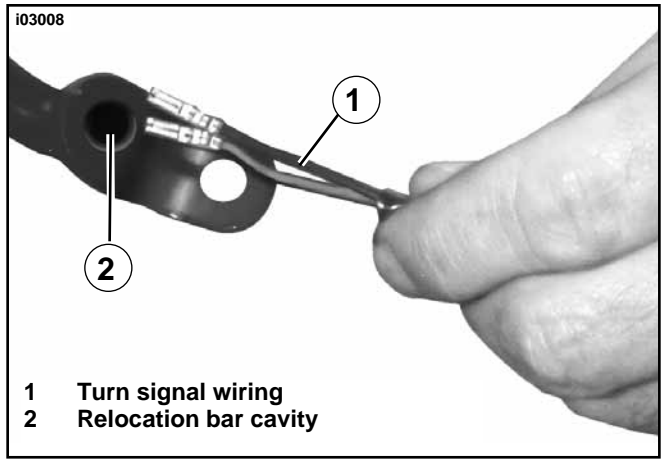
Figure 5. Install Saddlebag Support Screws

9. See Figure 5. Install saddlebag support to strut and fender as shown using two socket head screws and: **1990 to 2002 models**, use flange nuts (Part Number 7601) provided in this kit; **2003 and later models**, re-use the original stud plate from the vehicle. Tighten fasteners to 27 ft-lbs. (37 Nm)
10. Obtain chrome plated hole covers from kit and press into holes to cover original turn signal locations.
11. Repeat Steps 9 and 10 for the opposite side.



- 1 Relocation bar
- 2 Install hardware to support

Figure 6. Install Turn Signal Relocation Bar



- 1 Turn signal wiring
- 2 Relocation bar cavity

Figure 7. Route Signal Wiring

Install Signal Lamp Relocation Bars

12. See Figure 6. Obtain signal lamp relocation bar and fasten to support as shown using two screws (Part No. 3540) and nuts (Part No. 7739). Repeat for the opposite side.
13. See Figure 7. Obtain signal lamp and route lamp wiring through relocation bar as shown.

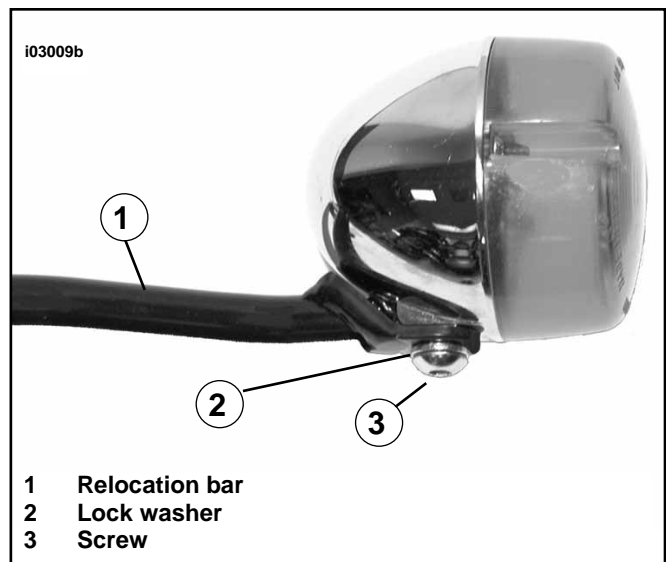
On 1990-1994 models, note that the signal lamp will have only one wire (Power) exiting the lamp. On these models, obtain the ground strap (Part No. 70507-00) from kit.

NOTE

Perform Step 14 to install 3 inch (Standard Style) Signal Lamps. Perform Step 15 to install 2-3/8 inch (Deuce Style) Signal Lamps.

14. **Installing 3 inch (Standard Style) Signal Lamps** See Figure 8. Apply Loctite 243 (Blue) to screw (Part No. 3538). Using screw and lock washer (Part No. 7041), attach lamp to signal relocation bar as shown. Tighten securely. Repeat Steps 13 and 14 for the opposite signal.

On 1990-1994 models, install ring terminal from ground strap to mounting screw when securing signal lamp to relocation bar. Secure ground wire to relocation bar using cable straps.



- 1 Relocation bar
- 2 Lock washer
- 3 Screw

Figure 8. Installing 3 inch Turn Signals (Standard Style)

15. **Installing 2-3/8 inch (Deuce Style) Signal Lamps.** See Figure 9. Apply Loctite® 243 (Blue) to screw (Part No. 4092). Using screw, lock washer (Part No. 7041) and spacer (Part No. 65849-01), attach lamp to signal relocation bar as shown. Spacer should be installed between signal and signal relocation bar. Tighten securely. Repeat Steps 13 and 15 for the opposite signal.

On 2000 and later models, obtain turn signal extension wiring (Part No. 72509-00) and 2-place connectors saved in Step 4b. Refer to Appendix covering Amp Multilock Connectors and install terminals from existing wiring to 2-place connectors. Connect 2-place male connector to 2-place female connector of wiring extension. Repeat Step for the opposite side.

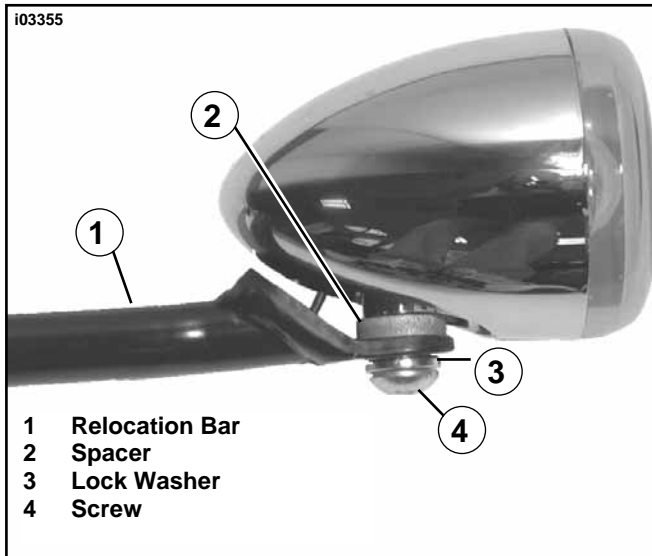


Figure 9. Installing 2-3/8 inch Turn Signals (Deuce Style)

16. Remove adhesive backing from 2 adhesive clips (Part No. 10102) and install to support plate. Route wiring from relocation bar along support plate and bend clip tabs to capture wiring.
17. See Figure 10. Continue routing up the inside of front saddlebag support hanger and fasten wiring to hanger using cable straps (Part No. 10006) provided in kit. Clip excess plastic from ends of straps. Remove adhesive backing from 2 clips and install to bottom of strut as shown. Insert wiring into each clip and bend tabs to capture wiring.
18. Continue to route wiring under strut and around front of fender to turn signal wire connector. (right side of fender under seat).
19. **1990 to 1999 models,** Refer to Appendix covering Amp Multi-lock Electrical Connectors and install power wire terminal to turn signal connector. Attach ring terminal end of ground strap to appropriate ground or to negative battery terminal.

2000 and later models, Refer to Appendix covering Amp Multilock Electrical Connectors in Service Manual and install signal wiring terminals to turn signal connector.

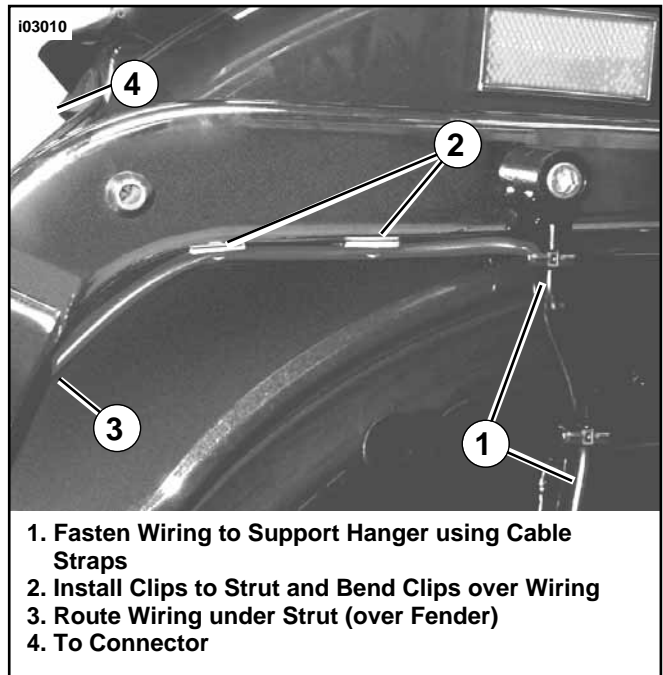
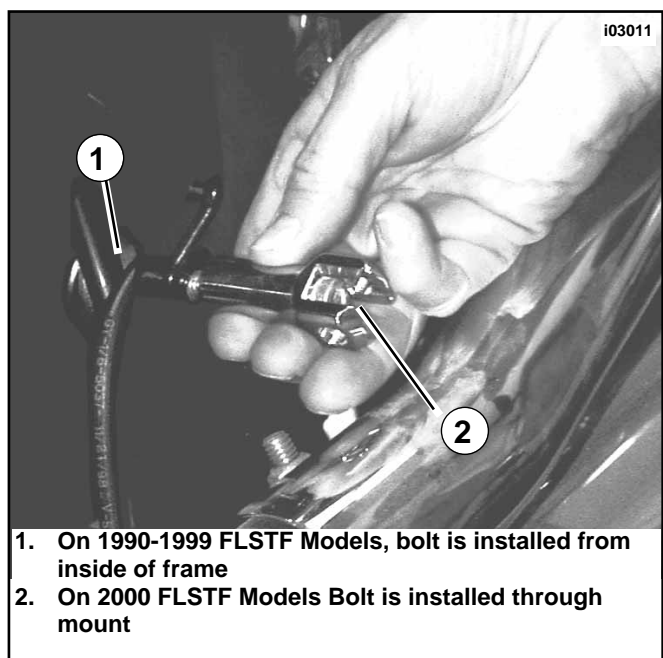


Figure 10. Route Wiring and Install Clips

NOTE

In some cases, after routing, the power wire may be too short to reach connector. If this is the case, refer to section covering "Installing Sealed Butt Connectors" in Electrical Section of Service Manual. Measure and cut a section of wire from the turn signal extension (Part No. 72509-00) provided in kit. Cut terminal end off leaving approximately 3 inches of wire. Using butt connectors (Part No. 70596-93) provided, splice jumper between original wire and terminal end. Install power and ground as described in Step 19.

20. Repeat Steps 16 through 19 for the opposite signal.



1. **On 1990-1999 FLSTF Models,** bolt is installed from inside of frame
2. **On 2000 FLSTF Models** Bolt is installed through mount

Figure 11. Remove Footpeg and Mount

Remove Rear Footpegs and Mounts

21. Following instructions in applicable Service Manual, remove rear fender extension/splash guard to provide adequate access for installing bracket hardware.
22. **2000 and later models**, Remove nut from bolt running through passenger footpeg and remove footpeg. Save parts for installation.
23. **1990 to 1999 models**, See Figure 11. Remove footpeg mount by removing bolt (from inside of frame). Discard left-side bolt. Retain right-side bolt for installation.
2000 and later models, See Figure 11. Remove footpeg mount by removing bolt (running through footpeg mount). Discard bolt.
24. Repeat Steps 22 and 23 for the opposite side.

Install Saddlebag Support Brackets

25. **1990 to 1999 models**, Perform the following:
 - a. See Figure 12. **Right Side**. Use existing 1/2x13x3-1/4 inch socket head bolt and lockwasher and insert through support bracket, then through frame and muffler support.
 - b. Install footpeg mount to bolt and finger tighten.
 - c. **Left Side**. Using 1/2x13x1-1/2 inch socket head bolt (Part No. 3549A), repeat Steps a and b. Proceed to Step 27.
26. **2000 and later models**, Perform the following:
 - a. See Figure 13. **Right Side**. Obtain 3/8x16x4 inch socket head bolt (Part No. 4202) from kit and install through footpeg mount and muffler support then thread completely into frame and tighten to 25-30 ft-lbs (34-41Nm). Threads should be exposed approximately 1/2 inch on inner side of frame.
 - b. Install bracket onto bolt then install "shouldered washer" (Part No. 5816) with shoulder oriented toward bracket. Install nut (Part No. 7601) to bolt and finger tighten.
 - c. **Left Side**. Using 3/8x16x2-1/4 inch socket head bolt (Part No. 4029A), repeat Steps a and b.

Install Brackets to Saddlebag Supports

NOTE

See Figure 14. If docking hardware is installed, use the inner two holes to mount the support bracket to the saddlebag support. If docking hardware has not been installed, use the outer two holes.

27. See Figure 14. Install two screws (Part No. 3540) through saddlebag support and into support bracket as shown. Install nuts (Part No. 7739). Tighten to 10 ft-lbs (13.1 Nm).
28. Return to the frame end of the bracket and perform the following:
1990-1999 models, Align and tighten footpeg mount bolt to 78 ft-lbs (106 Nm).
2000 and later models, Align footpeg mount and tighten nut (from inside frame) to 25-30 ft-lbs (34-41 Nm). Install footpeg to footpeg mount using original bolt, wave washer and nut. Tighten nut to 25-30 ft-lbs (34-41 Nm).

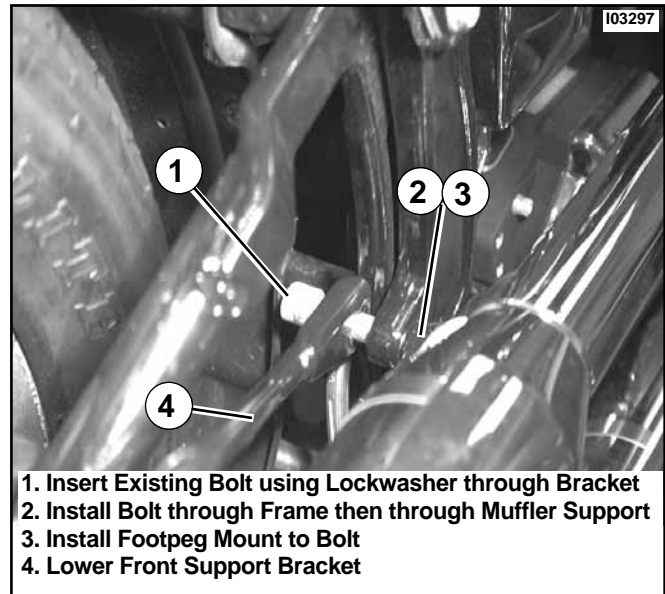


Figure 12. Saddlebag Support Bracket and Frame (1990-1999 Models)



Figure 13. Saddlebag Support Bracket and Frame (2000 and Later Models)

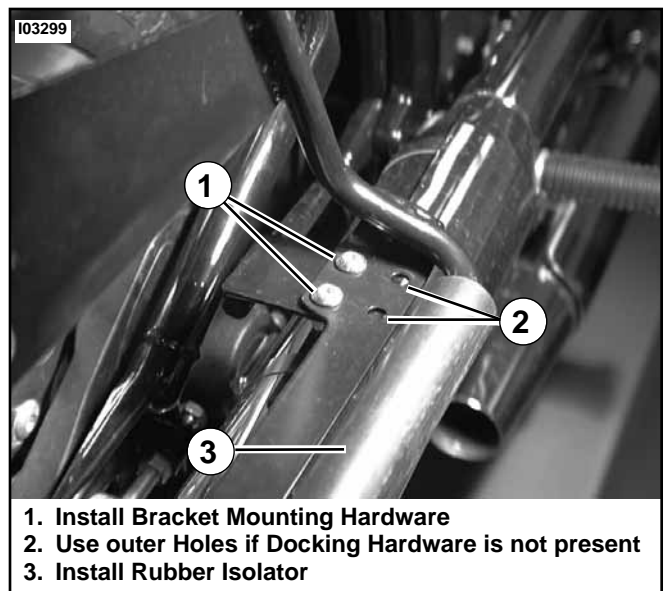


Figure 14. Install Support Bracket to Support

29. Perform Steps 27 and 28 for the opposite side.
30. Refer to the applicable Service Manual and install debris deflector.

Prepare Saddlebags for Installation

31. See Figure 15. Install rubber isolator over support bracket with "flat" side facing down. Repeat for the opposite side.
32. See Figure 15. Install rubber grommets (Part No. 90148-00) into holes in side of saddlebag as shown.
33. Install a metal sleeve (Part No. 90186-00) into each of the grommets as shown.
34. Repeat Steps 32 and 33 for the opposite saddlebag.

Install Saddlebags To Supports

35. See Figure 16. Hold saddlebag up to support and locate spacer (Part No. 90175-00) between saddlebag and support.
36. See Figure 17. Install screw (Part No. 4214) and washer (Part No. 6213) from inside saddlebag, through spacer, then install nut (Part No. 7735). Finger tighten.
37. Perform procedure 36 for the remaining hole in saddlebag and support.
38. Make sure saddlebag is aligned properly and tighten screws and nuts securely.
39. Perform procedures 35 through 38 for the opposite saddlebag.

Install Reflectors to Saddlebags

NOTE

In the next step, red reflectors are provided and must be installed to meet U.S. and Canadian requirements.

WARNING

Federal Motor Vehicle Safety Standard (FMVSS) 108 requires motorcycles to be equipped with rear and side reflectors. Be sure rear and side reflectors are properly mounted. Low visibility of rider can result in death or serious injury. (00336a)

40. See Figure 18. Locate area approximately 7 inches (178 mm) from front and 1/4 inch (6 mm) from lid lip of lower section of saddlebag.
41. Using isopropyl alcohol, thoroughly clean the area in which reflector is to be installed. Let dry completely. Remove adhesive backing and install reflector. Repeat for opposite saddlebag. Let adhesive cure for 24 hours.

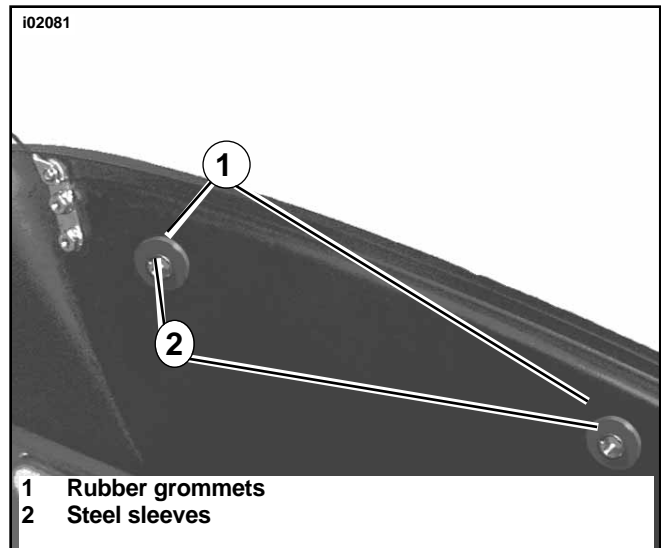


Figure 15. Install Grommets and Sleeves

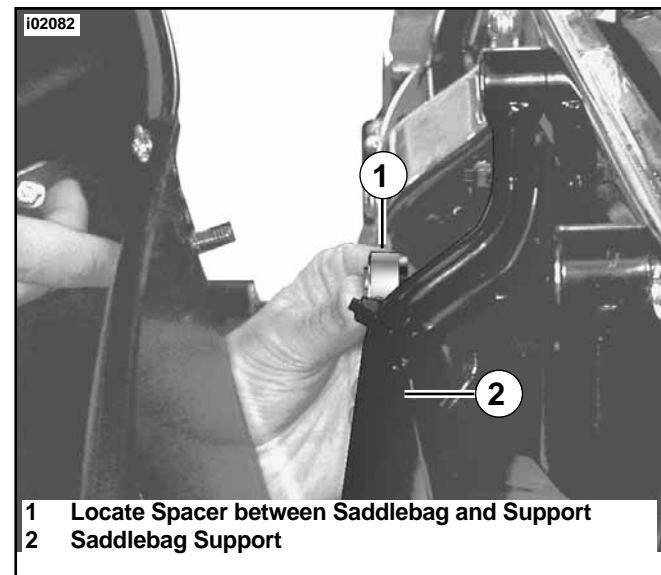


Figure 16. Install Spacer

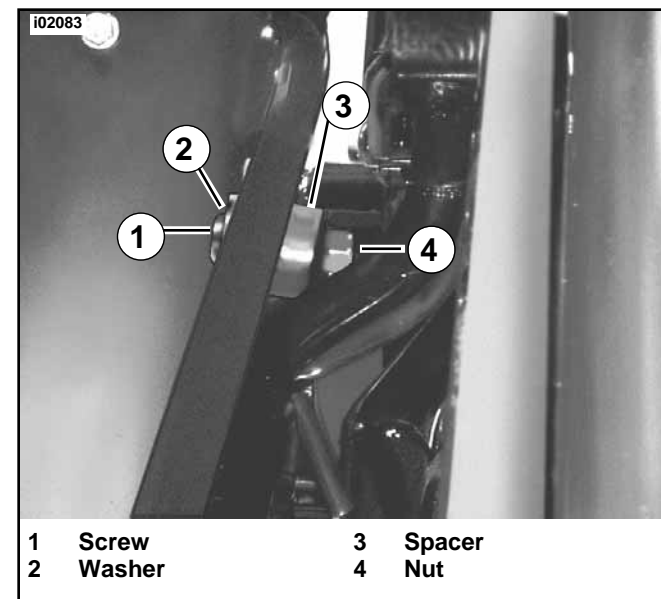


Figure 17. Secure Saddlebag to Support

Hinge Replacement (Optional)

NOTE

Saddlebags are shipped with hinge and tether for raising and lowering lid. However, due to various styles of seat or accessories installed, it may be preferable to replace existing hinge with optional hinge provided in kit which allows complete removal of lid. If hinge replacement is desired, perform the following:

42. See Figure 19. Remove screws securing upper portion of tether to saddlebag lid and lower portion of tether to saddlebag body. Remove tether.
43. See Figure 20. Remove C-clip securing hinge pin and remove pin from hinge. Separate lid from saddlebag body.
44. Remove two screws securing hinge to saddlebag lid and carefully slide hinge out from under rubber seal.
45. Obtain replacement hinge half for saddlebag lid. Carefully slide hinge under rubber seal and fasten hinge half to lid using screws removed in Step 44. Tighten screws securely.
46. Install original pin to hinge and secure with C-clip removed in Step 43.
47. Install lid to saddlebag body by aligning hinge halves and close lid. Pull up on front of lid to make sure lid is fastened securely.

⚠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)

48. Connect battery cables, positive cable first.

⚠WARNING

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

49. Install seat.

⚠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)

50. Check turn signals for proper operation.



Figure 18. Install Reflectors to Saddlebags

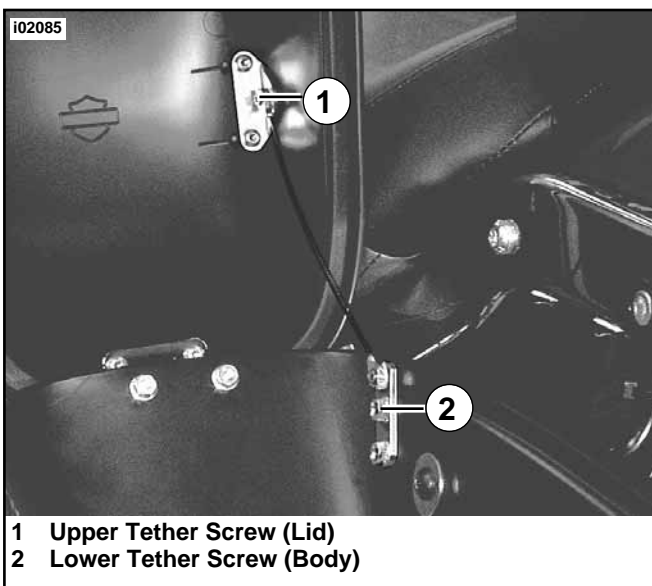


Figure 19. Remove Tether

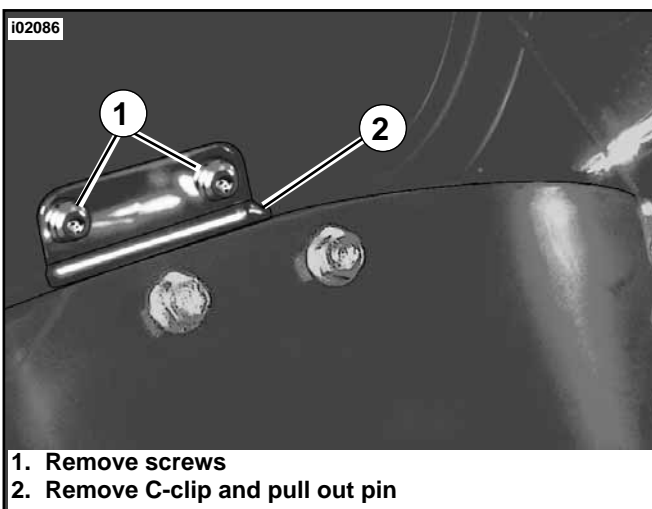


Figure 20. Remove Hinge



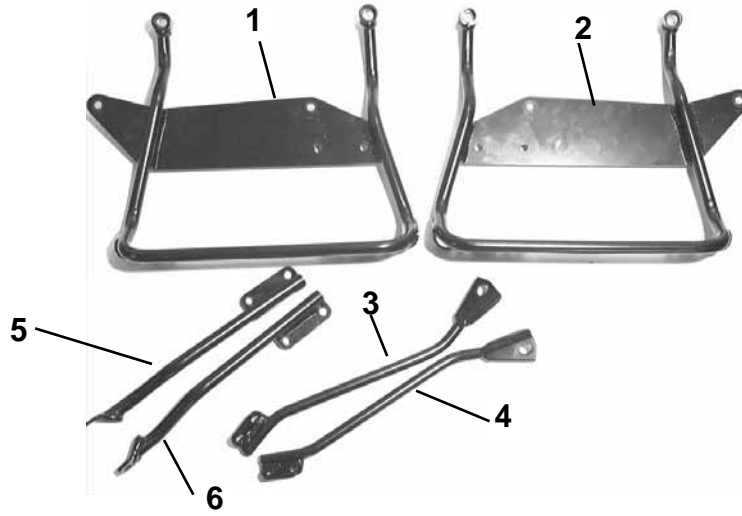
Service Parts

Part No. 90715-03BDK

Date 07/04

FLSTF Softail Saddlebag Kit

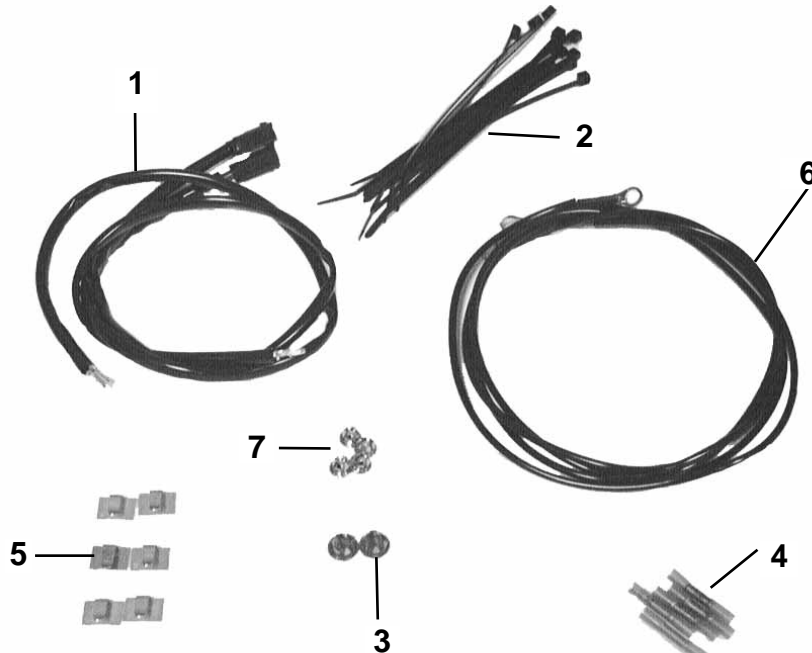
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Subassembly (Part Number 90709-00)

Item	Description/Qty.	Part Number	Item	Description/Qty.	Part Number
1	Support (left hand)	90762-00	4	Support, forward (right hand)	90424-00
2	Support (right hand)	90750-00	5	Support, turn signal (left hand)	90695-00
3	Support, forward (left hand)	90432-00	6	Support, turn signal (right hand)	90433-00

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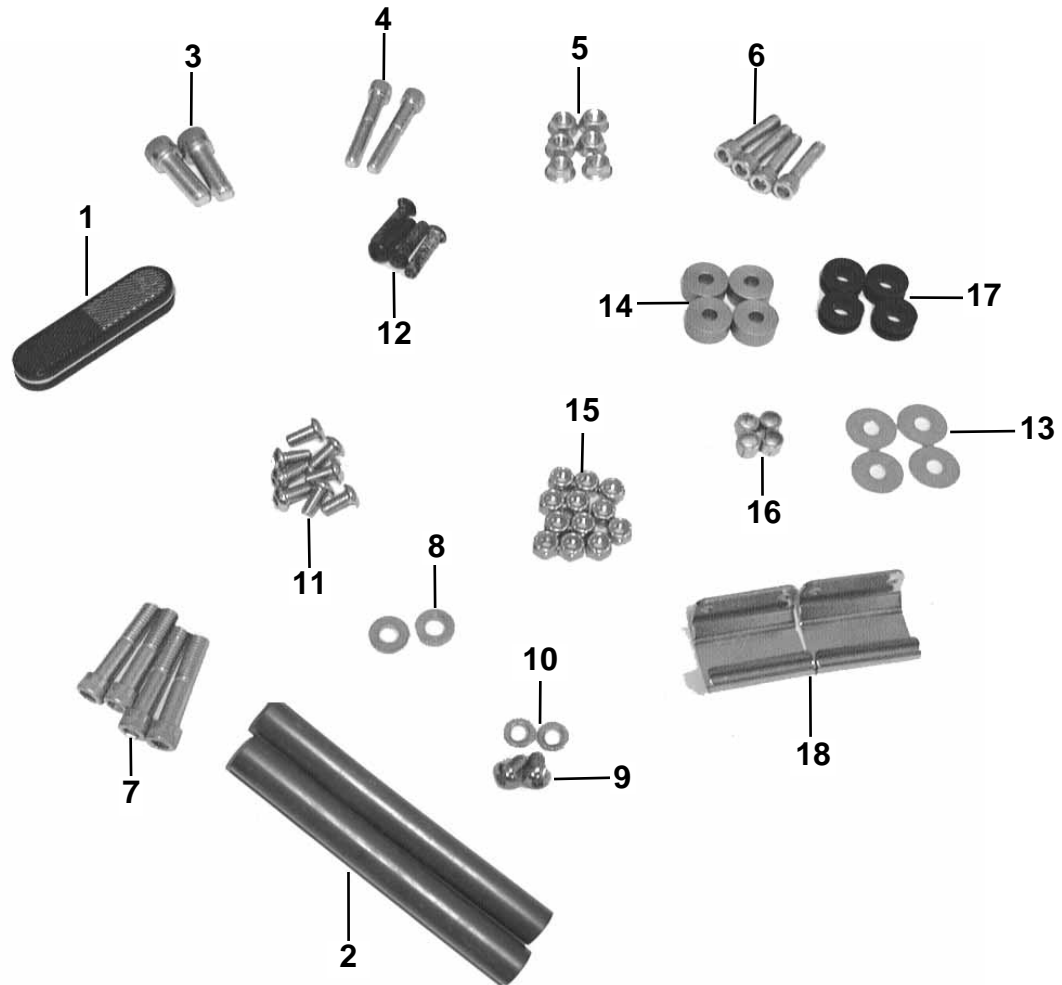


Wiring Kit (Part Number 72509-00)

Item	Description/Qty.	Part Number	Item	Description/Qty.	Part Number
1	Harness, wire (2)	70508-00	4	Connector, sealed butt (5)	70596-93
2	Cable strap (6)	10006	5	Clip, adhesive (8)	10102
3	Plug, button (2)	53830-00	6	Ground strap (2)	70507-00
			7	Plug, button (4)	68446-00



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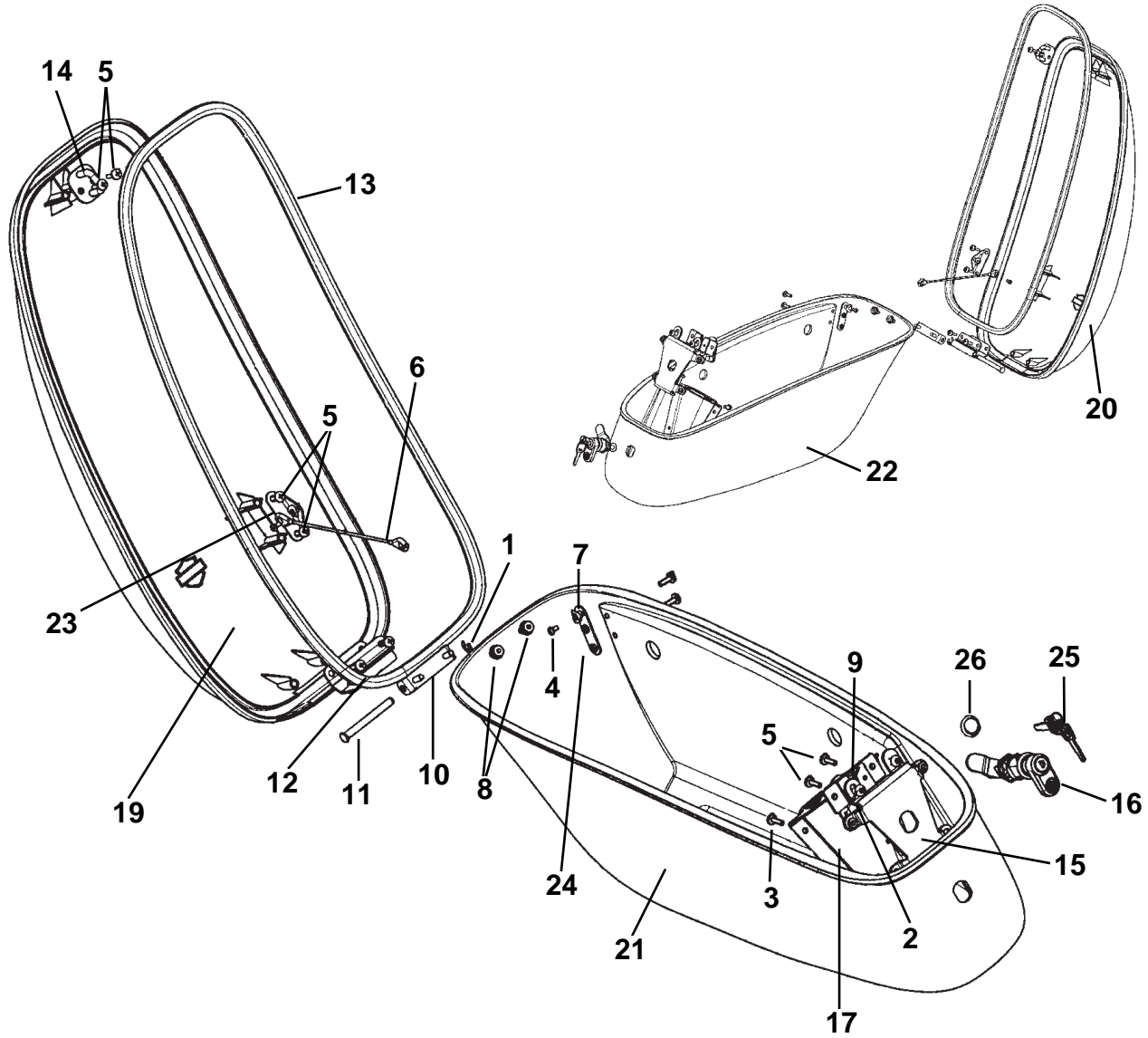


Subassembly (Part Number 90052-03)

Item	Description (Quantity)	Part Number	Item	Description (Quantity)	Part Number
1	Reflector, red (2)	59173-00	12	Screw, bag mount 5/16-18x1-3/8(4)	4214
2	Isolator, rubber (2)	90267-00	13	Washer, bag mount (4)	6213
3	Bolt, soc head, 1/2-13x1-1/2 (2)	3549A	14	Spacer, bag mount (4)	90175-00
4	Bolt, soc head, 3/8-16x2-1/4 (2)	4029A	15	Locknut, 5/16-18 (12)	7739
5	Locknut, flange 3/8-16 (6)	7601	16	Sleeve, steel (4)	90186-00
6	Bolt, soc head 3/8-16x1-5/8 (4)	4371WA	17	Grommet, rubber (4)	90148-00
7	Bolt, soc head 3/8-16x1-3/8 (4)	1002	18	Hinge, open (2)	90229-00
8	Washer, shoulder (2)	5816	<i>Items included in kit but not shown in photo:</i>		
9	Screw, 5/16-24x1/2 (2)	3538		Spacer (1)	65849-01
10	Washer, lock (2)	7041		Bolt, soc head 3/8-16x4 (1)	4202
11	Screw, 5/16-18x5/8 (8)	3540		Bolt soc head 5/16-18x3/4 (2)	4092



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Saddlebag Assembly

Item	Description/Qty.	Part Number	Item	Description/Qty.	Part Number
1	Retaining ring	11015	14	Loop latch	90231-00
2	Screw, M6-6H (2)	1394	15	Bracket, latch	90232-00
3	Screw, 10-24x3/8 (6)	3018	16	Lockset, saddlebag	90235-00
4	Machine screw, panhead (2)	3595	17	Cover latch assy	90237-00
5	Screw, hi-lo (8)	3596	18	Label, saddlebag (not shown)	Not sold
6	Tether	53633-00	19	Lid, saddlebag (left)	90261-00
7	Washer, spring curved (2)	6970	20	Lid, saddlebag (right)	90260-00
8	Nut, flanged (2)	7878	21	Body, saddlebag (left)	90264-00
9	Assy, latch	90166-00	22	Body, saddlebag (right)	90262-00
10	Catch, hinge	90172-00	23	Bracket, upper tether	90417-00
11	Pin	90173-00	24	Bracket, lower tether	90418-00
12	Hinge, hook bracket	90176-00	25	Key set (specify code)	90234-00
13	Gasket	90230-00	26	Gasket, lock (2)	90290-02