



INSTRUCTIONS

-J04729

REV. 2008-06-27

FL ADJUSTABLE RIDER BACKREST MOUNTING HARDWARE KIT

GENERAL

Kit Number

52593-09

Models

For model fitment information, see the P&A Retail Catalog or the Parts and Accessories section of www.harley-davidson.com (English only).

WARNING

The rider's safety depends 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. (00333a)

NOTE

This instruction sheet references service manual information. A service manual for your model motorcycle is required for this installation and is available from a Harley-Davidson Dealer.

Kit Contents

See Figure 17 and Table 1.

INSTALLATION - 1997 THROUGH 2007 MODELS

1. Remove existing seat and grabstrap following the instructions in the service manual. Models equipped with a grab handle must leave the grab handle in place. Remove the nuts only. Save all hardware for installation.
2. Remove left side cover following instructions in the service manual.
3. See Figure 1.
1999 and Later Models: Remove the flange nuts (2) in location indicated if applicable. Leave the nylon retaining washers (1) in place.
1997-1998 Models: Remove bolts.

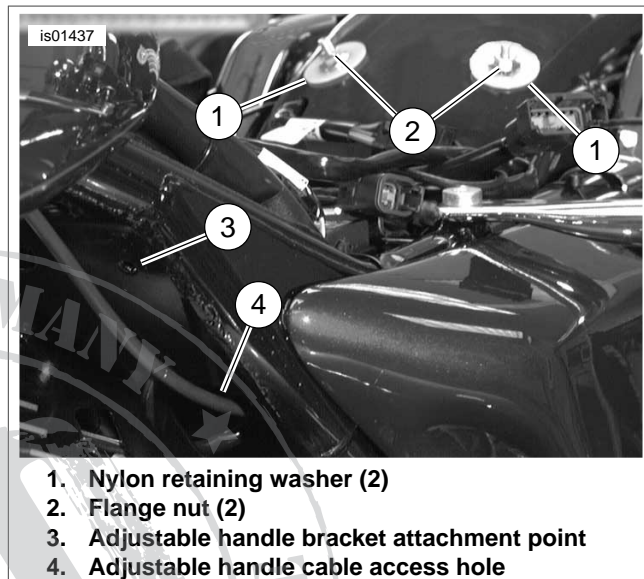
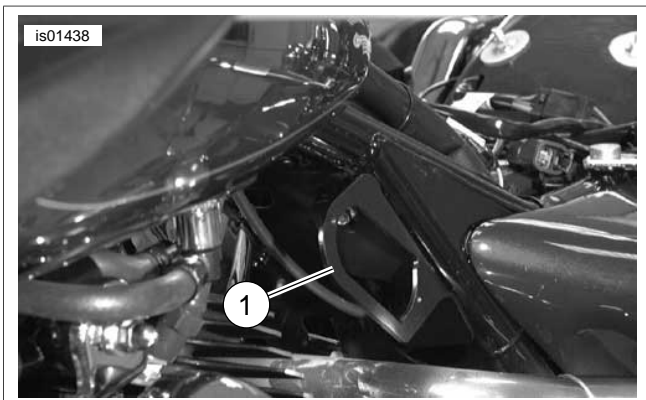


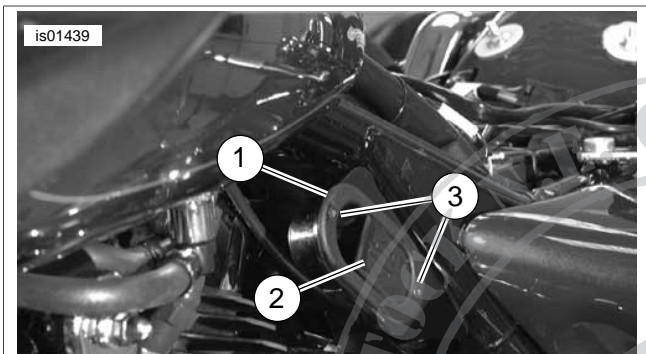
Figure 1. Remove Flange Nuts/Bracket Location

4. See Figure 2. Install the adjustment handle bracket (1) with the appropriate hardware:
2000-2007 Models: See Figure 17. Use the screw (5) and flange nut (13).
1997-1999 Models: See Figure 17. Use the self tapping screw (11).
 5. **Vehicles Equipped with Cruise Control:** See Figure 17. Install the cruise control cable through the wire clip (7). Install screw (5 or 11) through wire clip. On 2000-2007 models, install flange nut (13).
 6. See Figure 7. Verify the cable end (1) is secure in the bracket (2) before routing the backrest cable.
- NOTE**
Over-tightening the adjustment handle screws may cause damage to the adjustment handle.
7. See Figure 3. Feed cable on handle through the adjustment handle bracket (1) and install the backrest adjustment handle (2) in the bracket as shown with the provided flat head screws (3) (Item 5 or 11, Figure 17). Tighten screws securely. Feed the cable underneath the frame and up under the seat.
 8. Proceed to FINAL INSTALLATION - ALL MODELS.



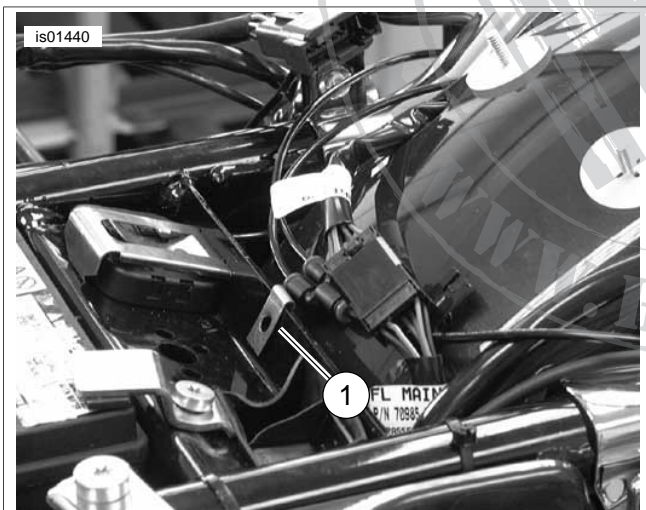
1. Adjustment handle bracket

Figure 2. Installed Adjustment Handle Bracket



1. Adjustment handle bracket (generic shown)
2. Backrest adjustment handle
3. Screw (2)

Figure 3. Installed Backrest Adjustment Handle



1. Speed nut location

Figure 4. Install Speed Nut

INSTALLATION - 2008 MODELS

Models without the Mid-Frame Air Deflector Accessory

1. Remove existing seat and grabstrap according to service manual instructions. Models equipped with a grab handle must leave the grab handle installed. Remove the mounting nuts only. Save all hardware for installation.

2. Remove the left side cover following the instructions in the service manual.
3. See Figure 1. Remove the flange nuts (2). Leave the nylon retaining washers (1) in place.
4. **California models with the evaporator canister tube:** Pull plastic hose clip out of the hole in the frame plate at the location where the adjustment handle bracket is going to mount. Discard plastic hose clip.

NOTE

The following step(s) will provide a threaded backrest adjustment handle bracket mounting hole in the 2008 frame. The special self-clinching nut included in the kit is inserted into the upper left hex shaped hole in the frame plate (where the backrest mounts) and secured in place by deforming the nut with a screw. Care must be taken to verify the nut is fully engaged in the hex hole when tightening the screw to clinch the nut into the frame plate.

5. See Figure 17. Obtain self-clinching nut (15) and screw (16) from kit. Install hex head screw into flanged end of the self-clinching nut until head of the screw just makes contact with the top of the nut.

NOTE

If necessary, clean any paint from the hex hole to fully engage the self-clinching nut in the hole.

6. Install the self-clinching nut and screw into the upper hex hole in the frame plate where the backrest bracket mounts. Engage hex shoulder of nut into the hex hole in frame.
7. Turn screw with a 7/16 wrench while holding the self-clinching nut firmly in place. The back of the self-clinching nut behind the frame plate will deform to clinch itself into the frame plate.
8. Tighten screw to 60-65 in-lbs (6.8-7.4 Nm) (approximately 2-1/2 turns).
9. Remove screw (16) and discard.
10. Hold shim (18) with hole in shim aligned with slot in bracket (10) and aligned with self-clinching nut in frame plate, and so shim gets sandwiched between the bracket and the frame plate. Install adjustment handle bracket (10) and shim with flange screw (5) through bracket and shim and into the self-clinching nut. Make sure the hook/bent tab of the bracket engages the edge of the large oval hole in the frame. When aligned, tighten flange screw to 45-55 in-lbs (5.1-6.2 Nm).

11. **California models with the evaporator canister tube:** See Figure 17. Obtain the adhesive-backed clip (17) from kit. Clean the flat area of the adjustment handle bracket approximately in the location where the stock plastic hose clip was removed using isopropyl alcohol. Attach the clip to the bracket and route the evaporator tube through the clip. Fold clip down to capture the tube securely.
12. See Figure 17. Obtain actuator handle and cable (9) from kit.
13. See Figure 7. Verify the cable end (1) is secure in the bracket (2) before routing the backrest cable.
14. See Figure 8. Route the backrest cable through the large opening in the adjustment handle bracket, then through the large oval slot (2) in the frame cross-member plate (3) and down through the lower drain hole (1) located at the

bottom corner of the frame cross-member plate where the cross-member plate meets the rear frame.

15. See Figure 9. Route cable (1) between the battery compartment and the fuse/electrical box. It may be necessary to loosen electrical box to fit the cable between the frame and the electrical box. Continue routing the cable (1) up from the rear of the electrical box to between the frame and the rear fender, and finally up to the top of the rear fender and to the backrest bracket.

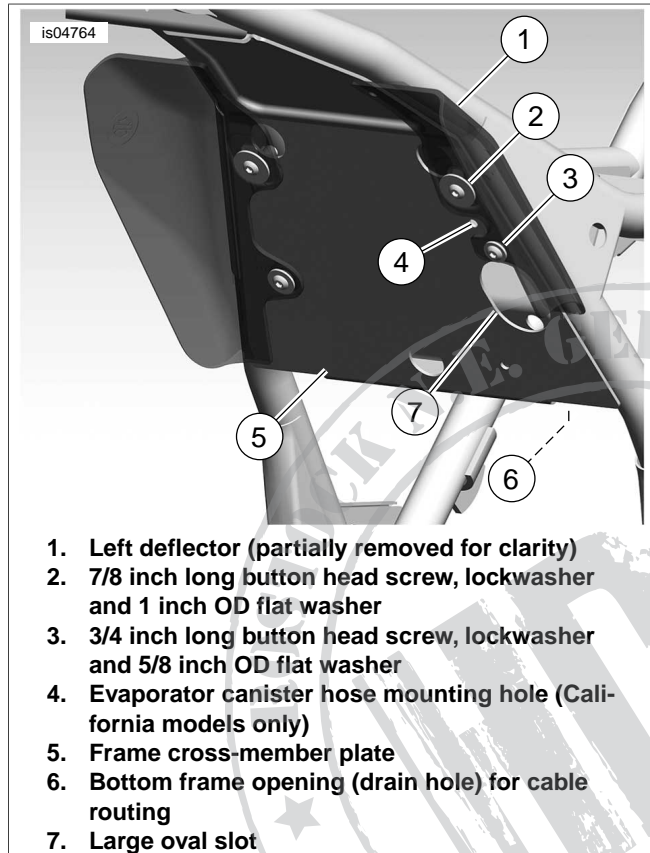


Figure 5. 2008 Models: Fastener Locations - View of Frame Rearward of Rear Cylinder (Engine Removed for Clarity)

Models with the Mid-Frame Air Deflector Accessory

1. Remove existing seat and grabstrap according to service manual instructions. Models equipped with a grab handle must leave the grab handle installed. Remove the mounting nuts only. Save all hardware for installation.
2. Remove left side cover following instructions in the service manual.
3. See Figure 1. Remove the flange nuts (2) in location indicated if applicable. Leave the nylon retaining washers (1) in place.
4. **California models with the evaporator canister tube:** Pull plastic hose clip out of the hole in the frame plate at the location where the adjustment handle bracket is going to mount. Discard plastic hose clip.

NOTE

If installing the Mid-Frame Air Deflector Accessory Kit also, follow Step 5 then skip to Step 7. If the Mid-Frame Air Deflector Accessory has already been installed, skip to Step 6.

5. Follow the instructions included with the Mid-Frame Air Deflector Kit to install the four self-clinching "special" nuts.
6. See Figure 5. Remove the left air deflector (1) and hardware (2 and 3).
7. See Figure 17. Obtain actuator handle bracket (10) from kit.

NOTE

The air deflector mounting hardware should be used/reused to mount the adjustment handle bracket.

8. See Figure 17. Insert cable (part of Item 9) through opening in adjustment handle bracket (10) as shown. Install adjustment handle (part of Item 9) into bracket (10) using the two screws (5). Tighten screws securely but do not over-tighten.
9. See Figure 7. Verify the cable end (1) is secure in the bracket (2) before routing the backrest cable.

NOTE

Over-tightening the adjustment handle screws may cause damage to the adjustment handle.

10. While holding the left side Mid-Frame Air Deflector and the adjustment handle bracket with adjustment handle and cable in their as-mounted orientation, and so air deflector will end up captured between the adjustment handle bracket and the frame cross-member, align the deflector upper mounting hole (2nd hole from top of deflector) with large slot in adjustment handle bracket. Align bottom mounting hole in air deflector with bottom hole in adjustment handle bracket.
11. See Figure 5. Place air deflector and adjustment handle bracket into position while feeding backrest cable through large oval slot (7) in frame cross-member plate (5) and down through bottom frame opening (6) in the compartment behind the frame cross-member plate.

NOTES

With adjustment handle already installed in bracket, it may be desirable to access the bracket mounting hardware from the right side of the vehicle.

Do not use Loctite on the fasteners used to secure the mid-frame air deflector to the frame. If Loctite contacts the air deflector, damage will occur.

12. Using hardware from Mid-Frame Air Deflector Kit, install 7/8 inch long button head screw with lock washer and 1 inch OD flat washer through slot in adjustment handle bracket and through upper mounting hole (2nd from top) of air deflector. Install screw into upper self-clinching nut (installed as part of air deflector kit or as part of adjustable backrest kit). Tighten screw snugly, but do not fully tighten.
13. Install 3/4-inch long button head screw with lockwasher and 5/8 inch OD flat washer (from air deflector kit) through lower hole in adjustment handle bracket and through lower mounting hole of air deflector. Install screw into lower self-clinching nut in frame cross-member plate (installed as part of air deflector kit). While holding bracket and air deflector aligned, and with hook/bent tab of adjustment handle bracket tight against upper edge of large oval slot in frame, tighten screw to 25-35 **in-lbs** (2.8-3.9 Nm).
14. While holding bracket and air deflector aligned, and with hook/bent tab of adjustment handle bracket tight against

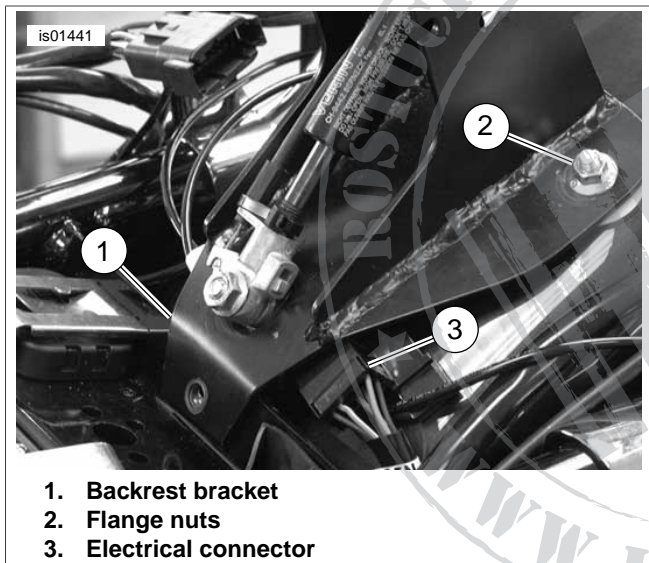
upper edge of large oval slot in frame cross-member plate, tighten upper screw to 25-35 in-lbs (2.8-3.9 Nm).

15. **California models with the evaporator canister tube:** See Figure 17. Obtain the adhesive-backed clip (17) from kit. Clean the flat area of the adjustment handle bracket approximately in the location where the stock plastic hose clip was removed using isopropyl alcohol. Attach the clip to the bracket and route the evaporator tube through the clip. Fold clip down to capture the tube securely.
16. See Figure 9. Finish routing cable (1) between the battery compartment and the fuse/electrical box. It may be necessary to loosen electrical box to fit the cable between the frame and the electrical box. Continue routing the cable (1) up from the rear of the electrical box to between the frame and the rear fender, and finally up to the top of the rear fender and to the backrest bracket.

NOTE

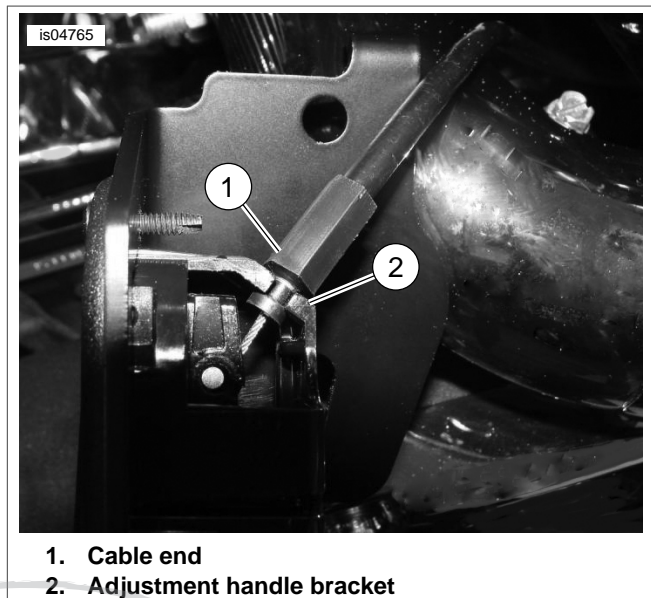
Over-tightening the adjustment handle screws may cause damage to the adjustment handle.

17. See Figure 3. Install the backrest adjustment handle (2) in the adjustment handle bracket (1) as shown with the provided flat head screws (3) (Item 5, Figure 17). Tighten screws securely.



1. Backrest bracket
2. Flange nuts
3. Electrical connector

Figure 6. Attach Backrest Bracket with Flange Nuts and Screw

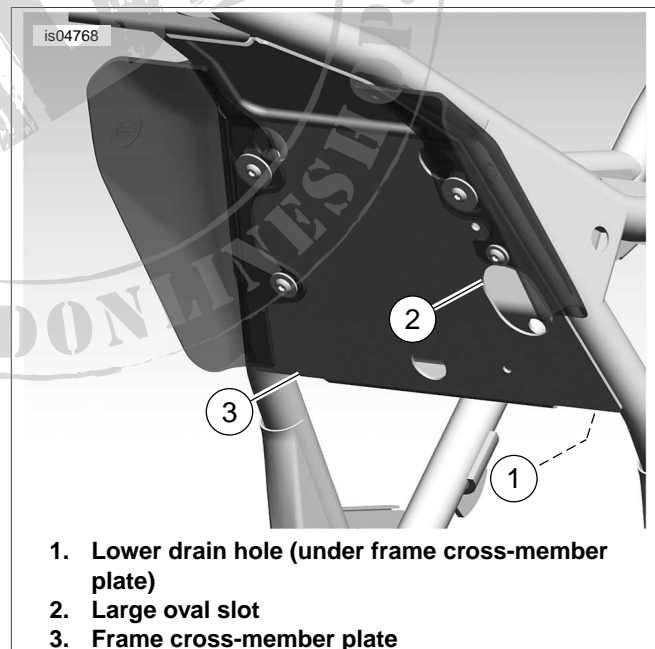


1. Cable end
2. Adjustment handle bracket

Figure 7. Seat Adjustment Cable Position (View from Under Installed Handle)

FINAL INSTALLATION - ALL MODELS

1. See Figure 4. Install speed nut (1) in location shown.
2. **1999 and Later Models:** See Figure 17. Install backrest bracket (1) as shown using the flange nuts (13), washers (3) and screw (5).
1997-1998 Models: Use hex screws (4) and washers (3).
3. See Figure 6. Slide the electrical connector (3) to the side so that the bracket does not interfere with it.



1. Lower drain hole (under frame cross-member plate)
2. Large oval slot
3. Frame cross-member plate

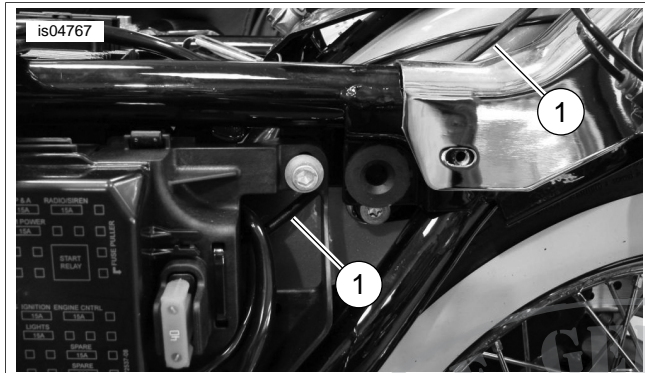
Figure 8. Route Backrest Cable Through Frame (2008 Models Shown)

4. See Figure 10. Attach the release cable (1) to the backrest mounting bracket (2) as shown. Carefully secure the cable to the shaft of the gas spring (4) with the provided cable strap (3).

⚠ WARNING

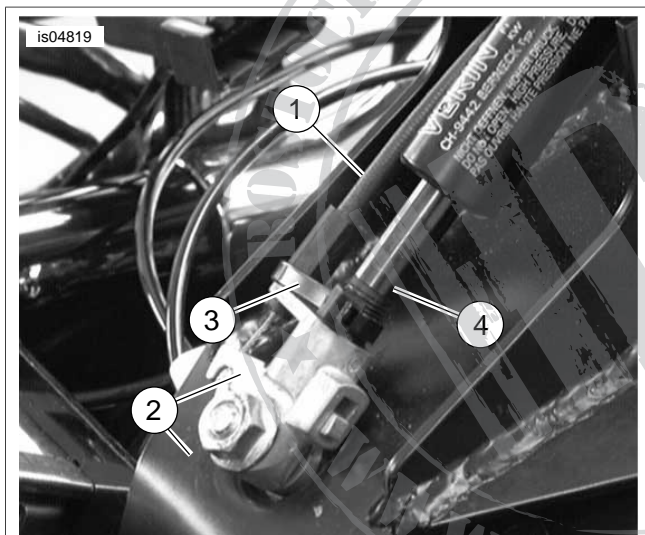
After installing seat, pull upward on seat to be sure it is locked in position. While riding, a loose seat can shift causing loss of control, which could result in death or serious injury. (00070b)

5. Install seat and grabstrap (if equipped) with the previously removed hardware.



1. Backrest cable

Figure 9. Backrest Cable Routing



1. Release cable
2. Backrest bracket
3. Cable strap
4. Gas spring shaft

Figure 10. Attach Cable to Backrest Bracket

BACKREST INSTALLATION - ALL MODELS

1. See Figure 11. Press on lever located on backrest bracket as shown. Insert backrest and press gently until it snaps into place.

⚠ WARNING

After installing backrest, pull upward to be sure it is locked in position. While riding, a loose backrest can shift causing loss of control, which could result in death or serious injury. (00386a)

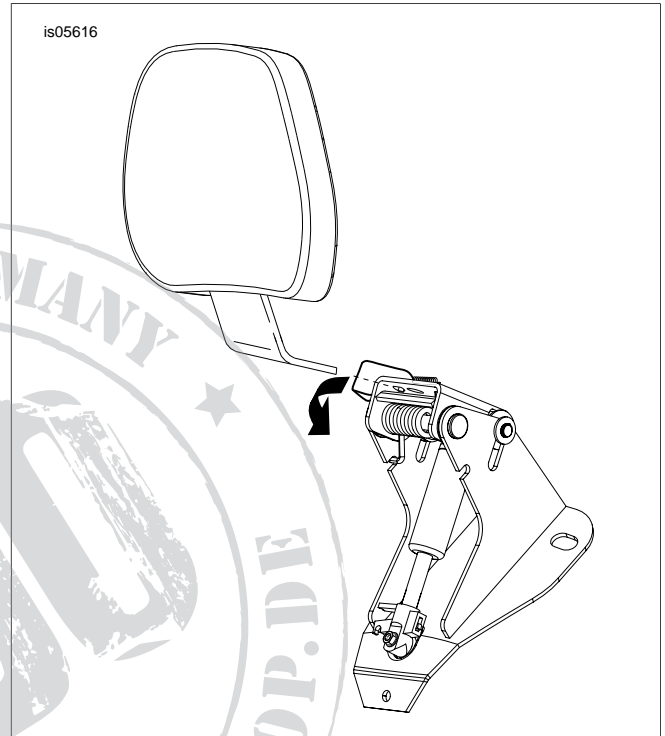


Figure 11. Installing Backrest

OPERATION

⚠ WARNING

After installing backrest, pull upward to be sure it is locked in position. While riding, a loose backrest can shift causing loss of control, which could result in death or serious injury. (00386a)

1. The adjustment handle is used to move the backrest pad into the forward and rearward positions.
2. See Figure 12 and Figure 13. To adjust the backrest pad forward or rearward, push the handle. Leaning back against the backrest pad will help adjust it rearward. Keeping your weight off of the backrest pad while pushing on the handle will cause the backrest to come to its full forward position. Releasing the handle will lock the backrest into place.
3. See Figure 14 and Figure 15. To adjust the backrest pad up and down, pull the knob on rear of pad in approximate location shown. Move the backrest up or down into the desired position then release when the pad is in the desired position.
4. See Figure 16. The backrest pad may be pushed forward against seat as shown to ease in getting off and on the motorcycle without activating the release handle.

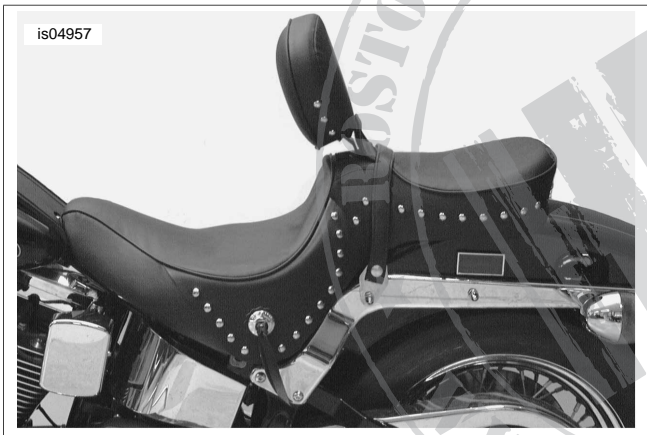


Figure 12. Backrest in Forward Position



Figure 13. Backrest in Full Rearward Position

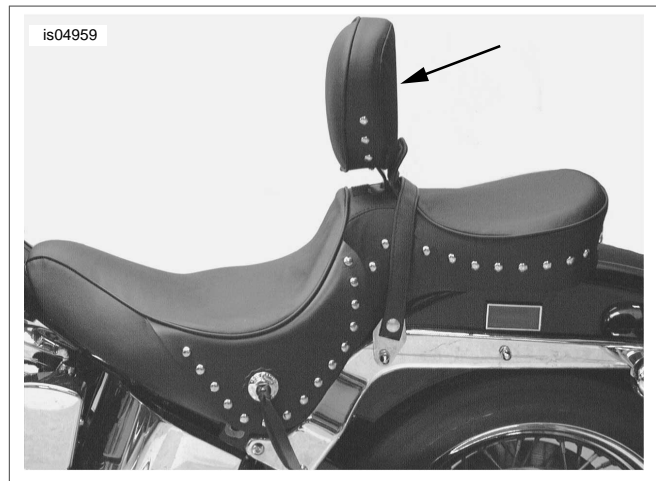


Figure 14. Backrest in Upward Position

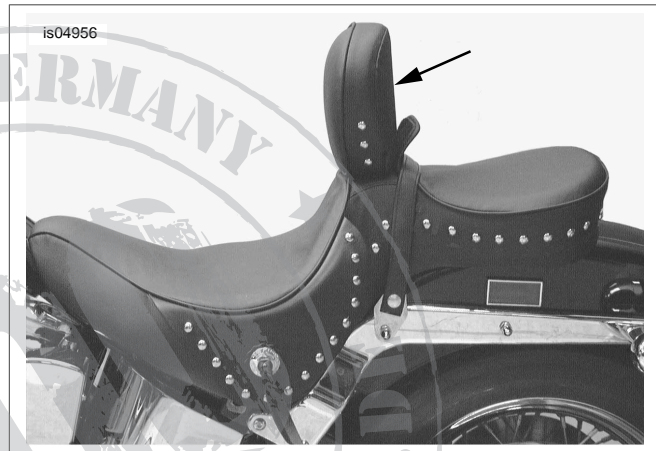


Figure 15. Backrest in Fully Down Position



Figure 16. Backrest Pushed Fully Forward

SERVICE PARTS

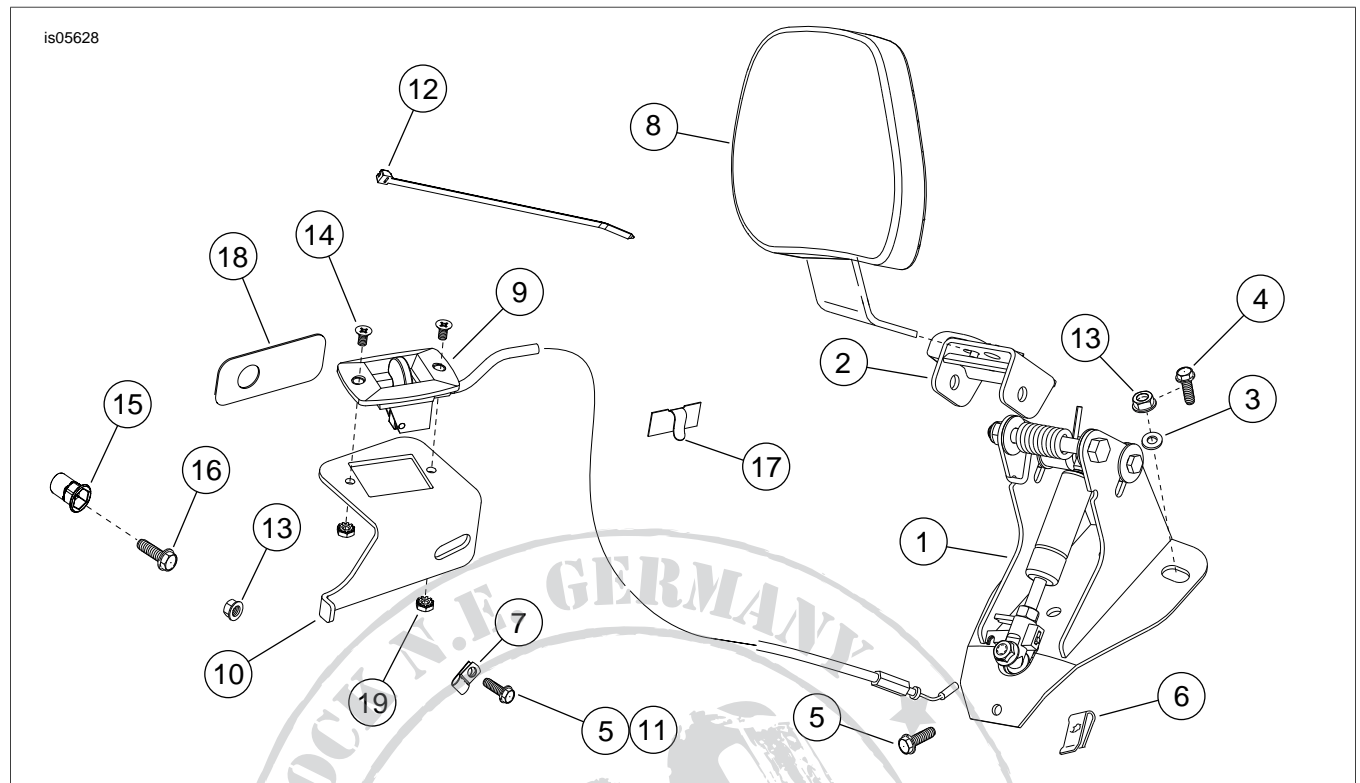


Figure 17. Service Parts: Adjustable Rider Backrest Mounting Hardware Kit

Table 1. Service Parts Table: Adjustable Rider Backrest

Item	Description (Quantity)	Part Number
1	Backrest bracket	52482-01A
2	Pivot bracket	52342-09
3	Washer (2)	6223
4	Hex flange screw, (2) (1997-1998 models)	Not Sold Separately
5	Hex flange screw, 1/4-20 x 5/8 inch (2)	3921
6	Speed nut	8108
7	Wire clip	Not Sold Separately
8	Backrest pad	Sold As Separate Kit
Actuator Handle Kit (includes Items 9-19)		52367-09
9	Actuator handle and cable	Not sold separately
10	Actuator handle bracket	Not Sold Separately
11	Self tapping screw 5/16-18 x 3/4 inch	4328
12	Cable strap	Not Sold Separately
13	Flange nut 1/4-20 (2000-2008 models)	8021
14	Flat head screw, 10-24	2933
15	Nut, self-clinching, 1/4-20 (2008 models)	8194
16	Hex head cap screw, 1/4-20 x 1.0 inch (2008 models)	2551W
17	Adhesive clip	10103
18	Handle bracket shim (2008 models)	Not Sold Separately
19	Nut w/lockwasher, 10-20 keps (2)	7838