



INSTRUCTIONS

-J04568

REV. 2010-12-15

"LE" SERIES CLUTCH CABLE KITS

GENERAL

Kit Numbers

Table 1. Kit Contents

Diamond-Black Kit	Diamondback Kit	Length
38967-10	38921-09	62.69 inch
N/A	38922-09	64.69 inch
N/A	38923-09	66.69 inch
N/A	38924-09	68.69 inch
38981-10	38925-09	70.69 inch
38983-10	38926-09	72.69 inch
38874-10	38847-09	57.69 inch
38941-09A	38848-09	58.69 inch
38940-09A	38849-09	60.69 inch
38877-09A	38850-09	62.69 inch
38818-10	38851-09	64.69 inch
38875-09A	38852-09	66.69 inch
38916-09A	38854-09	68.69 inch
38973-10	38856-09	70.69 inch
38975-10	38857-09	72.69 inch
38977-10	38858-09	74.69 inch
38979-10	38859-09	76.69 inch
N/A	38860-09	78.69 inch
N/A	38737-09	54.75 inch
38939-09A	38745-09	57.25 inch
38911-09A	N/A	61.75 inch
37200008	N/A	52.75 inch

NOTES

The "LE" Series Clutch Cable Kits are available in a variety of cable lengths. Shorter or longer cables may be necessary when modifications (i.e. optional handlebars) have been made to the motorcycle. See the Harley-Davidson Genuine Motor Accessories and Genuine Motor Parts Catalog for fitment and length information.

Damage to the clutch cable threaded end fitting due to improper handling/installation is not covered under the Harley-Davidson Motor Company Warranty.

Tighten clutch cable fitting to clutch release cover to 36-60 in-lbs (4-7 Nm).

Additional Parts Required

Dyna, Softail and Touring models will require separate purchase of a clutch release cover gasket. See Table 2.

Table 2. Clutch Release Cover Gasket Usage

Model	Gasket Part Number
2005 and earlier Dyna	36801-87C
2006 and later Dyna	36805-06
2006 and earlier Softail	36801-87C
2007 and later Softail	36805-06
2006 and earlier Touring	36801-87C
2007 and later Touring	36805-06

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 11 and Table 3.

CLUTCH CABLE REMOVAL

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)

1. Disconnect the battery or main fuse following the instructions in the appropriate service manual.
2. When performing cable disassembly procedures, make careful notes as to the existing cable routing and existing

cable strap locations. New cable straps can be installed in the same locations.

- Remove the clutch cable following the instructions in the appropriate service manual.
- If installing different handlebars, install them now (refer to the appropriate handlebar instruction sheet) and measure the change in distance that will be required from the end of the cable housing to the clutch lever.

⚠ WARNING

Install proper length clutch cables. Incorrect cable length can adversely affect motorcycle operation, which could cause loss of control resulting in death or serious injury. (00448b)

- Compare the additional required length to the cable provided in your kit. If the cable is more than two inches (50.8 mm) longer or more than one inch (25.4 mm) shorter than the above measured distance, see a Harley-Davidson dealer for the correct cable length.

CLUTCH CABLE INSTALLATION

Sportster and Softail Models

⚠ WARNING

Do not over-tighten clutch cable threaded end fitting. Use recommended torque values. Damage to threaded fitting can lead to loss of transmission fluid, which could result in loss of control and death or serious injury. (00449c)

NOTE

Damage to the clutch cable threaded end fitting due to improper handling/installation is not covered under the Harley-Davidson Motor Company Warranty.

- See Figure 11. Apply a light coat of clean engine oil on the new O-ring (2) before installing the O-ring onto the threaded portion of the clutch cable end.
- Install the clutch cable following the instructions in the service manual EXCEPT:
Tighten clutch cable fitting to clutch release cover to 36-60 in-lb (4-7 Nm).
- After installation, follow the instructions in the "Final Assembly" and "Clutch Cable Adjustment" sections in this instruction sheet.

FLTR/X Models with Fairing Lower

- See Figure 1. Carefully twist the clutch cable around the coiled opening in the clutch cable guide (2) with the eyelet toward the left handlebar.
- Route the clutch cable assembly down from the clutch cable clamp while crossing to the right side of the vehicle. Run the cable between the inboard side of the right frame downtube and the outboard side of the voltage regulator.
- The clutch cable clamp, mounted on the engine guard, has two fingers, an upper and a lower. Feed the cable assembly under one finger and over the other.
- Finish the installation of the clutch cable following the instructions in the appropriate service manual EXCEPT:

Tighten clutch cable fitting to clutch release cover to 36-60 in-lbs (4-7 Nm).

NOTE

See Figure 2. Adjust the clutch cable clamp to 2.25 ± 0.25 in. (57.15 ± 6.35 mm) as measured from the inside lower left fairing mount to the clutch cable clamp.

- After installation, follow the instructions in the "Final Assembly" and "Clutch Cable Adjustment" sections in this instruction sheet.

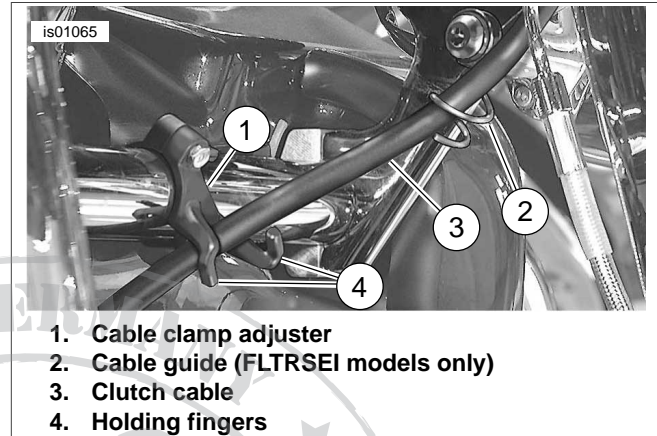


Figure 1. Clutch Cable Routing, FLTR Models with Fairing Lower

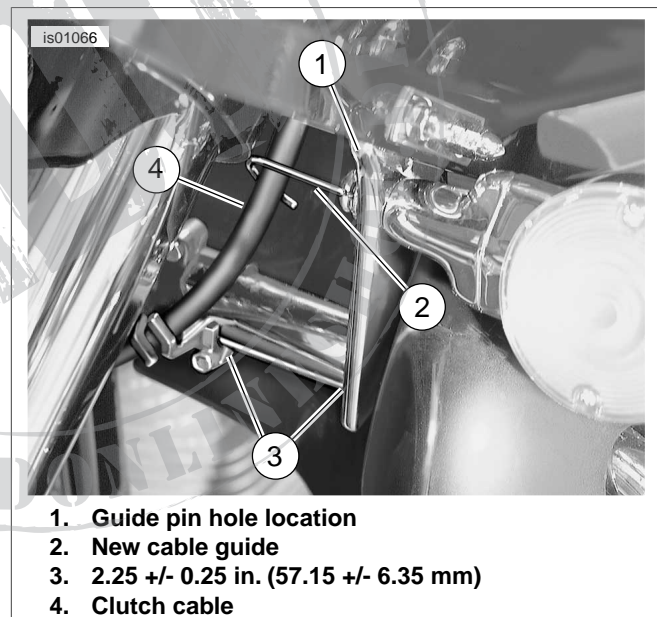


Figure 2. Clutch Clamp Mounting Measurement FLTR Models with Fairing Lower

FLHT/C/CU and FLHX Models

- See Figure 11. Finish the installation of the clutch cable following the instructions in the appropriate service manual EXCEPT:
Tighten clutch cable fitting to clutch release cover to 36-60 in-lbs (4-7 Nm).
- Replace stock grommet with grommet (6).

- After installation, follow the instructions in the "Final Assembly" and "Clutch Cable Adjustment" sections in this instruction sheet.

FLHR Models

- See Figure 11. Discard the stock P-clamp on the upper fork bracket. Replace with P-clamp (8).
- Finish the installation of the clutch cable following the instructions in the service manual EXCEPT:
Tighten clutch cable fitting to clutch release cover to 36-60 **in-lbs** (4-7 Nm).
- After installation, follow the instructions in the "Final Assembly" and "Clutch Cable Adjustment" sections in this instruction sheet.

Dyna Models

- See Figure 3. Apply a light coat of clean engine oil to the new O-ring and install the O-ring onto the threaded portion of the clutch cable (3). Insert the clutch cable fitting (2) into the clutch release cover, being careful not to exert any sideways force on the fitting during installation. Do not tighten the cable fitting at this time.
- Connect the cable end to the coupling (4). Rotate the ramps for best access and install the coupling on the inner ramp. Place the ramp assembly in position in the clutch release cover.

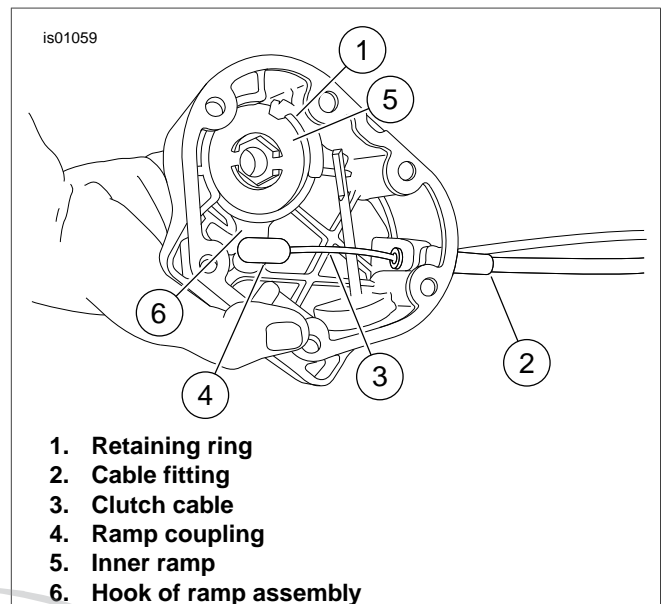


Figure 3. Clutch Cable Connection

WARNING

Wear safety glasses or goggles when removing or installing retaining rings. Retaining rings can slip from the pliers and could be propelled with enough force to cause serious eye injury. (00312a)

- Install the retaining ring (1). Position the retaining ring opening so it is located approximately over the outer ramp tang (the stop that prevents rotation).
- See Figure 4. Place the **new** gasket (purchased separately) on the clutch release cover, and install the cover. Tighten the six screws in the order shown to 84-108 **in-lbs** (9.5-10.2 Nm).
- Tighten the clutch cable fitting to 36-60 **in-lbs** (4-7 Nm).

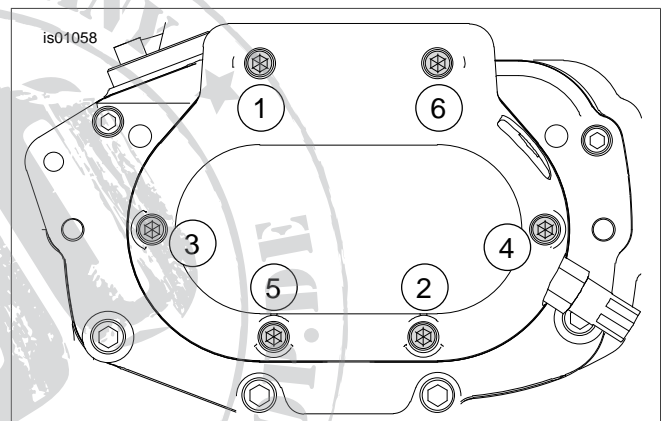


Figure 4. Clutch Release Cover Screws

WARNING

Do not over-tighten clutch cable threaded end fitting. Use recommended torque values. Damage to threaded fitting can lead to loss of transmission fluid, which could result in loss of control and death or serious injury. (00449c)

NOTE

Damage to the clutch cable threaded end fitting due to improper handling/installation is not covered under the Harley-Davidson Motor Company Warranty.

- Route the cable per the instructions in this Step **for your model:**

Cable Routing: 1996-2005 Dyna Models

- All Dyna models:** See Figure 5. Route the clutch cable (1) from the clutch release cover, under the frame and across to the left side of the vehicle. Insert the cable into the clip (2) at the bottom left side of the frame. Continue routing the cable up in front of the frame down-tube.
- All Dyna models (except FXDWG):** Route the cable inside the left fork tube between the upper and lower fork brackets and along the left side of the headlamp.
- FXDWG models:** Route the cable behind the front fork upper bracket and over the handlebar.
- FXDWG2 and FXDWG3 models:** Also pass the clutch cable through the clutch cable guide ring.
- All Dyna models:** After installation, follow the instructions in the "Final Assembly" and "Clutch Cable Adjustment" sections in this instruction sheet.

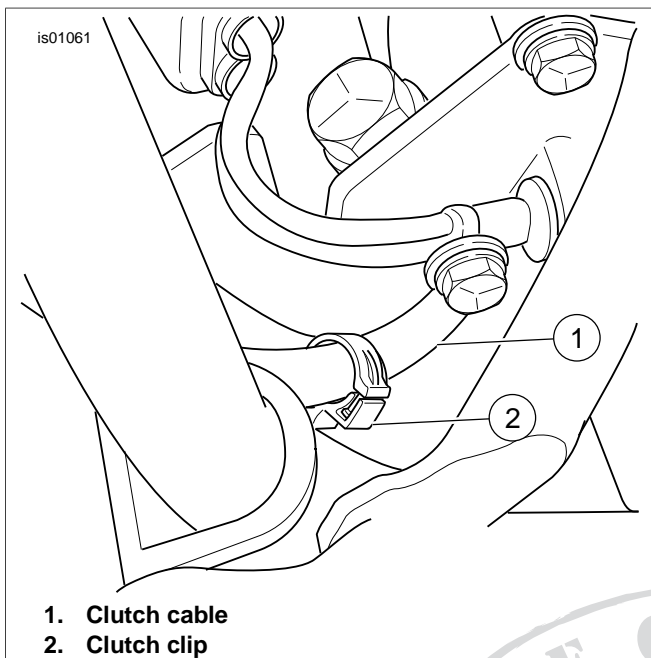


Figure 5. Bottom Clutch Cable Clip

Cable Routing: 2006 and Later Dyna Models

1. **All Dyna models:** See Figure 5. Route the clutch cable (1) from the clutch release cover, under the frame and across to the left side of the vehicle. Insert the cable into the clip (2) at the bottom left side of the frame.
2. See Figure 6. Verify there is approximately 1.0 inch (25.4 mm) clearance between the cable (2) and the front engine mount (3).
3. Continue routing the cable up the side of the frame downtube.
4. **All Dyna models (except FXDB):** See Figure 7. Route the clutch cable (1) behind the front fork upper bracket (2) and **under** the handlebar (3).
5. **All Dyna models:** After installation, follow the instructions in the "Final Assembly" and "Clutch Cable Adjustment" sections in this instruction sheet.

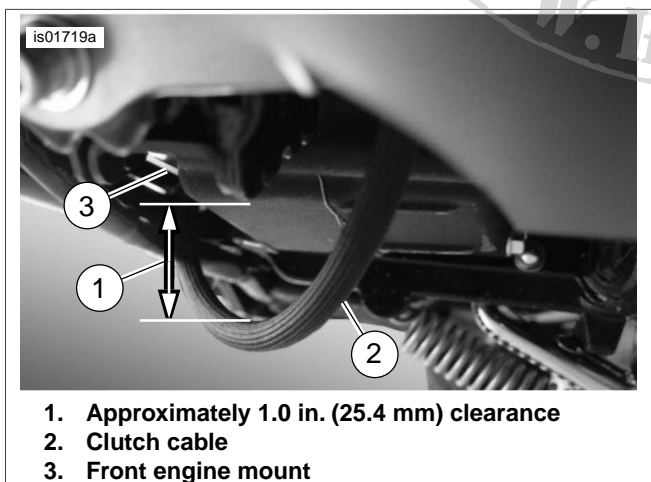


Figure 6. Clearance Between Clutch Cable and Front Engine Mount (2006-Later Dyna Models)

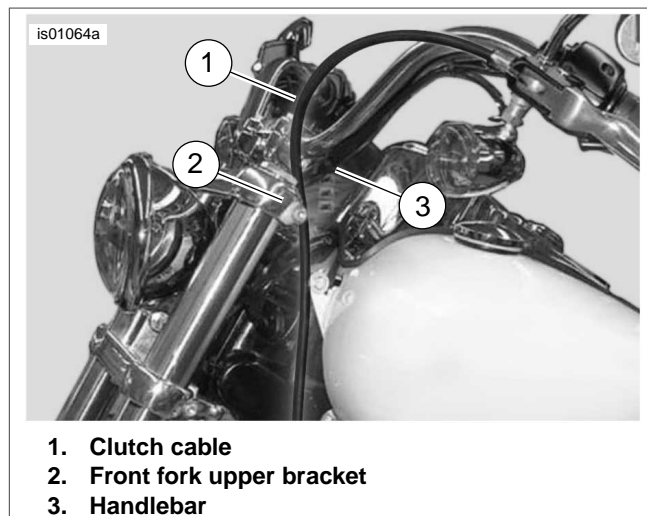


Figure 7. Clutch Cable Routing, Upper (2006-Later Dyna Models Except FXDB)

FINAL ASSEMBLY

NOTES

Some of the clutch cables in these kits contain a loose piece of clear Teflon® heat shrink tubing on the upper cable for added abrasion resistance. This heat shrink tubing has been installed but not shrunk.

If the cable makes rubbing contact with motorcycle (i.e. at the upper fork clamp, at a wireform guide, etc.), position the heat shrink tubing so it is centered at the location of contact and shrink the tubing in place using a radiant heat source (such as the Robinair Heat Gun with Heat Shrink Attachment) (DO NOT use the Ultra-Torch!).

If the Teflon® tubing has an instruction label attached, remove the label prior to heat shrinking.

Install Cable Straps

See Figure 11. Double-loop cable strap(s) (1) are included in the kit to hold the clutch cable adjuster away from the frame and secure it to the vehicle.

1. Remove and discard metal clips or straps holding stock clutch cable and place double loop straps in the same locations.

For Dyna and Sportster Models: Use two double loop straps (one above the adjuster, one below). On the strap above the adjuster leave enough slack in loop around cable to allow adjuster sleeve to pass through freely when performing service adjustments.

For Softail and Touring Models: Use one double loop strap below the adjuster to attach to frame tubes.

2. **For Softail Models:** Use a single loop cable strap (6) from kit to secure clutch cable to lower frame tube to hold clutch cable away from exhaust.
3. See Figure 8. Wrap a cable strap (1) around the downtube (2) and insert the end into the head (3) of the cable strap.
4. See Figure 9. Wrap cable strap around the clutch cable (2) and insert the end into the head of the cable strap. Pull the cable strap tight to secure the clutch cable to the downtube. Trim the end of the cable strap (3). Repeat as necessary.

5. Fill the transmission with lubricant following the instructions in the service manual.

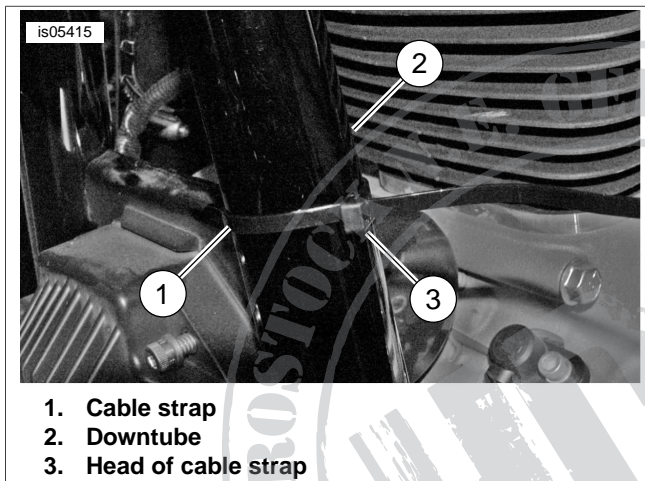
⚠ WARNING

Be sure that steering is smooth and free without interference. Interference with steering could result in loss of vehicle control and death or serious injury. (00371a)

⚠ 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)

6. Connect the battery cables, positive cable first or connect the main fuse.



1. Cable strap
2. Downtube
3. Head of cable strap

Figure 8. Install Cable Strap to Downtube

CLUTCH CABLE ADJUSTMENT

NOTE

See Figure 10. Cable adjuster cover (4) will slide easier if the cable is straightened in one hand while sliding cover with other hand. Use care not to damage the outer covering on the clutch cable.

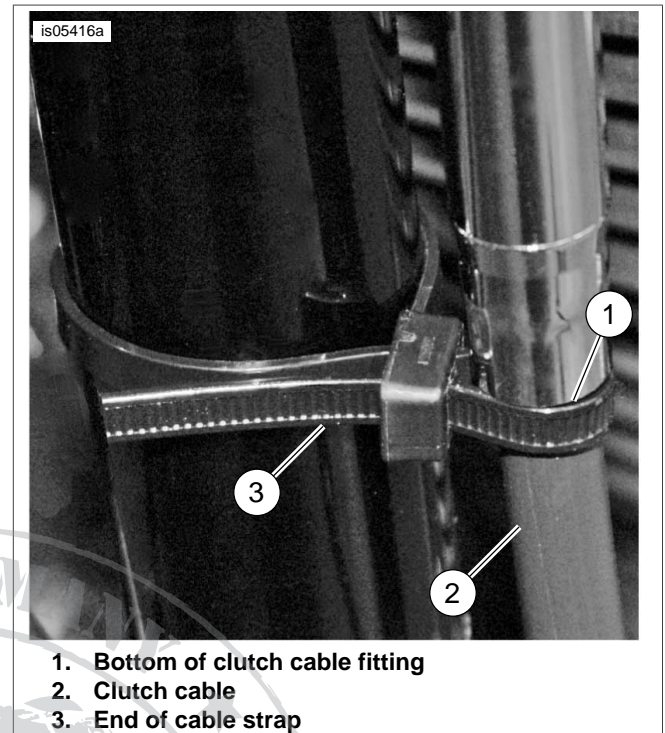
1. See Figure 10. Slide clutch cable adjuster cover (4) to access jam nut (3).

NOTE

Adjustment requires two 7/16-inch wrenches for the jam nut and cable adjuster (1).

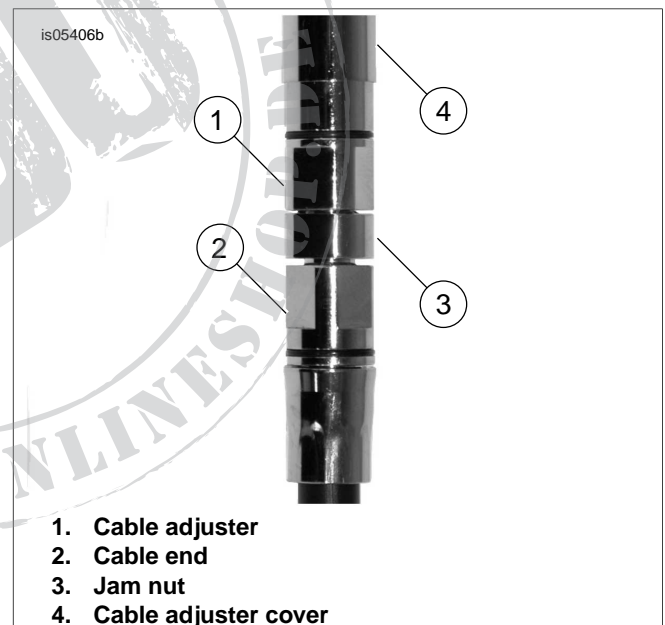
2. Adjust cable following the instructions in the service manual.

3. Slide clutch cable adjuster cover down until it hits the stop.



1. Bottom of clutch cable fitting
2. Clutch cable
3. End of cable strap

Figure 9. Install Cable Strap to Clutch Cable



1. Cable adjuster
2. Cable end
3. Jam nut
4. Cable adjuster cover

Figure 10. Clutch Cable Adjuster

SERVICE PARTS

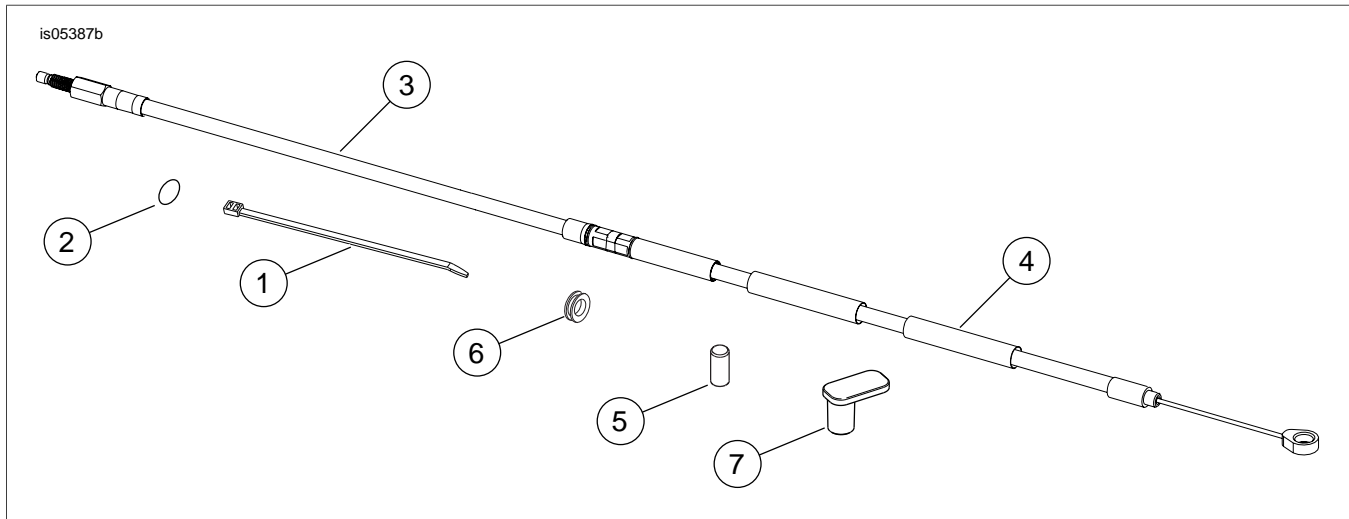


Figure 11. Service Parts: Clutch Cable Kits

Table 3. Service Parts Table

Kit	Item	Description (Quantity)	Part Number
38737-09, 38745-09 38939-09A, 38911-09A, 37200008	1	Cable strap, double-loop (2)	10360
	2	O-Ring	11179
	3	Clutch cable (includes Item 4)	Not sold separately
	4	• Protective tubing (if applicable)	Not sold separately
	5	Anchor Pin	45036-88
38847-09, 38848-09, 38849-09, 38850-09, 38851-09, 38852-09, 38854-09, 38856-09, 38857-09, 38858-09, 38859-09, 38860-09, 38916-09A, 38875-09A, 38818-10, 38877-09A, 38940-09A, 38941-09A, 38874-10, 38973-10, 38975-10, 38977-10, 38979-10	1	Cable strap, double-loop (2)	10360
	2	O-Ring	11179
	3	Clutch cable (includes Item 4)	Not sold separately
	4	• Protective tubing (if applicable)	Not sold separately
	5	Anchor Pin	45036-88
38921-09, 38922-09, 38923-09, 38924-09, 38925-09, 38926-09, 38967-10, 38981-10, 38983-10	1	Cable strap, double-loop	10360
	2	O-Ring	11179
	3	Clutch cable (includes Item 4)	Not sold separately
	4	• Protective tubing (if applicable)	Not sold separately
	5	Anchor Pin	45036-88
	6	Grommet (FLHT/C/CU and FLHX models only)	11445
	7	Anchor Pin	38900-08
	8	P-clamp (not shown) (FLHR models only)	10076