



INSTRUCTIONS

-J03095

REV. 2008-02-01

REAR ROAD WINDER CUSTOM WHEEL KITS

GENERAL

Kit Number

44636-03, 44637-03, 44638-03, 44638-03A, 44654-04,
44677-03, 44747-04, 44668-04, 44930-05

Models

These kits are designed to fit the following model motorcycles:

Table 1. Models

Kits	Models
44636-03	2000 to 2005 Dyna™ Models, 2000-2002 Softail® Models (except FLSTS and FXSTD), and 2000-2001 Touring model motorcycles
44637-03	2003 to 2007 FLST, FLSTN, and FLSTC models. Also fits 2003-2005 FXST, FXSTS, FXSTB and 2003-2006 FLSTF (except 2006 FLSTFSI)
44638-03	2002 to 2007 FL Touring model motorcycles (2007 models require use of 3737A (5) screws and 6516HW (5) washers)
44654-04	2000 to 2007 FXSTD (Softail® Deuce™) model motorcycles.
44677-03	2000 to 2004 XL model motorcycles
44747-04	2005 to 2007 XL model motorcycles
44668-04	2002 to 2005 VRSC (V-Rod) model motorcycles
44930-05	2006 to 2007 Dyna™ model motorcycles
44638-03A	2002 to 2007 FL Touring model motorcycles

Additional Parts

This kit contains the necessary parts for wheel installation. However, you will need to save the axle, axle nut, brake discs and wheel spacers for re-installation.

For Kit 44668-04: A Floating Rotor Kit must also be installed. Contact your local Harley-Davidson Dealer for information for the available types of floating rotor kits.

Proper installation of these kits require the separate purchase of the following parts which are available at a Harley-Davidson dealer.

- Wheel Bearing Remover and Installer (HD-44060-A)

The following Harley-Davidson Genuine Motor Accessories are recommended for proper maintenance and cleaning:

- Harley® Bright™ Chrome Cleaner (94683-99)
- Harley® Glaze™ Polish and Sealant (99701-84)
- Harley® Wheel and Spoke Brush (43078-99)
- Harley-Davidson® Wheel and Tire Cleaner (94658-98)

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

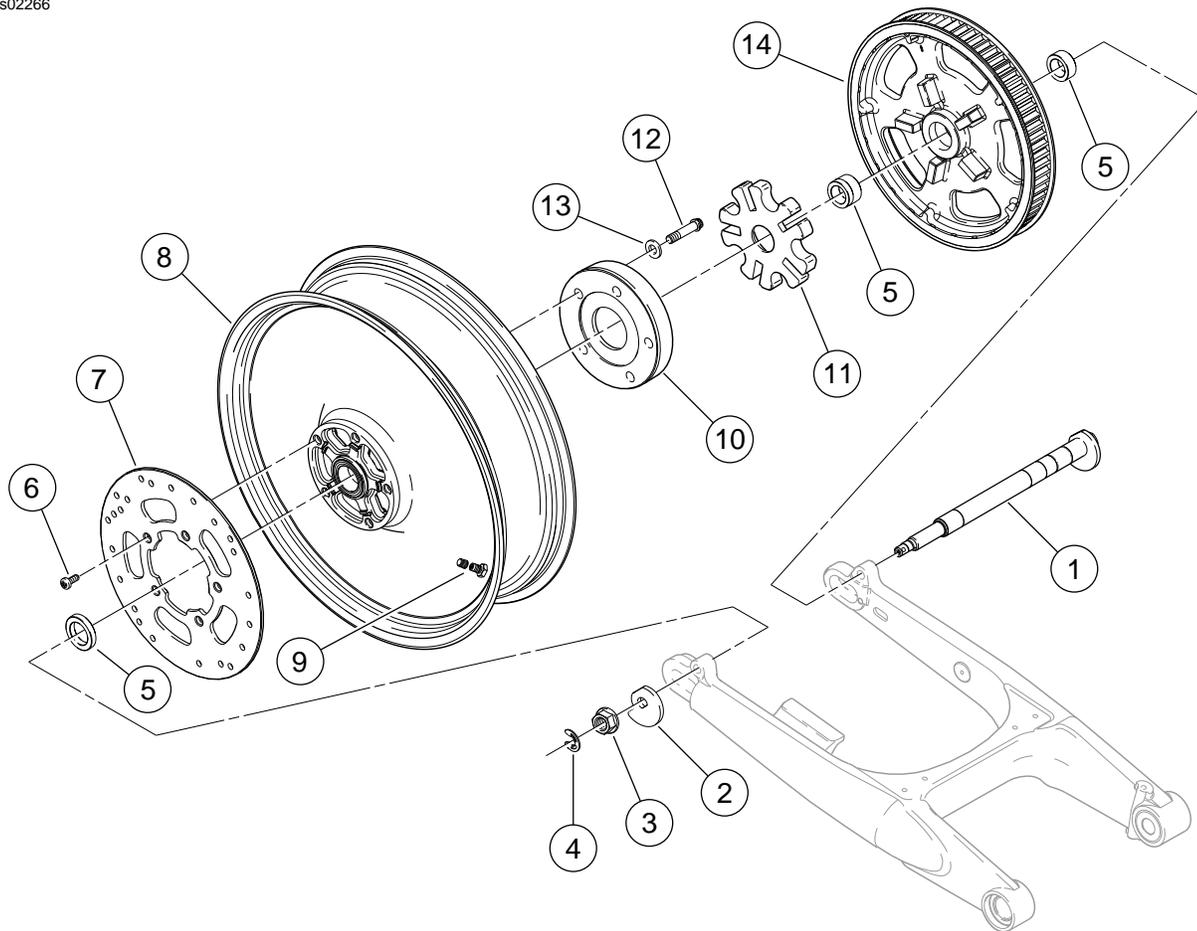
See Figure 2, Table 2, Figure 3 and Table 3.

INSTALLATION

WARNING

To prevent accidental vehicle start-up, which could cause death or serious injury, remove main fuse before proceeding. (00251b)

1. Remove the right side-cover and main fuse following the instructions in the appropriate Service Manual.
2. Remove the rear wheel following the instructions in the appropriate Service Manual.
3. Disassemble, clean and inspect all parts to be re-used per Service Manual instructions.



- | | |
|-----------------------------|----------------------------------|
| 1. Axle (keep) | 8. Wheel assembly (replace) |
| 2. Axle adjuster (keep) | 9. Valve cap (keep) |
| 3. Axle nut (keep) | 10. Compensator bowl (keep) |
| 4. "E"-clip (keep) | 11. Compensator cushion (keep) |
| 5. Spacer (3) (keep) | 12. 12 point screw (5) (replace) |
| 6. Torx screw (5) (replace) | 13. Lockwasher (5) (replace) |
| 7. Brake disc (keep) | 14. Sprocket assembly (keep) |

Figure 1. Rear Wheel Removal (V-Rod only)

- See Figure 1. Assemble all saved components to the new chrome rear wheel assembly following the instructions in the appropriate Service Manual.
- Install the main fuse and right side-cover following the instructions in the appropriate Service Manual.

CAUTION

Do not re-use brake disc screws. Re-using disc screws can result in torque loss and damage to rotor and/or brake assembly. (00319b)

CAUTION

Do not re-use sprocket mounting screws. Re-using sprocket mounting screws can result in torque loss and damage to the sprocket and/or belt assembly. (00480b)

- Fasten the brake disc to lettering side of the wheel using the TORX® screws from the kit. Install the compensator bowl (V-Rod models) with the 12-point screws and lockwashers (purchased separately).
- Install the new wheel to the rear fork following the instructions in the appropriate Service Manual.

WARNING

Whenever a wheel is installed and before moving the motorcycle, pump brakes to build brake system pressure. Insufficient pressure can adversely affect brake performance, which could result in death or serious injury. (00284a)

WARNING

After repairing the brake system, test brakes at low speed. If brakes are not operating properly, testing at high speeds can cause loss of control, which could result in death or serious injury. (00289a)

MAINTENANCE AND CLEANING

Chrome parts must be maintained regularly to ensure that they keep their original shine and luster.

1. Clean heavily-soiled wheel surfaces using Harley Wheel and Tire Cleaner applied with Harley-Davidson Wheel and Spoke Brush.
2. Thoroughly clean chrome with a good quality chrome cleaner, such as Harley Bright Chrome Cleaner.
3. After cleaning and polishing, seal the finish with a good quality sealer such as Harley Glaze Polish and Sealant.

BEARING REPLACEMENT

On the rear wheel, the right (brake disk) side of the wheel is the primary bearing side (V-Rod models).

The left side or primary bearing side of all other wheels is identified by machined grooves.

When installing replacement bearings, install the primary bearing first following the instructions in the appropriate Service Manual using a WHEEL BEARING REMOVER/ INSTALLER, Part Number HD-44060-A.

SERVICE PARTS

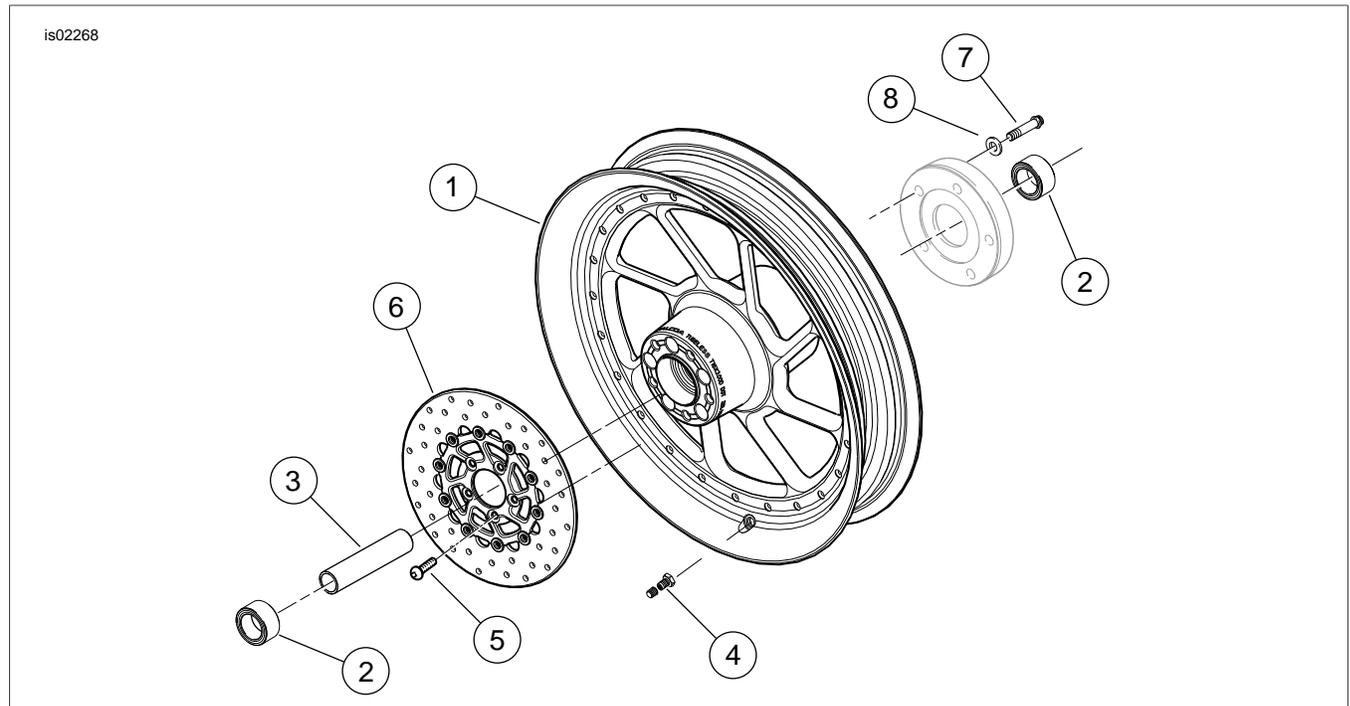


Figure 2. Service Parts: Road Winder Custom Wheels

Table 2. Service Parts: Road Winder Custom Wheels

Item	Description (Quantity)	Part Number
For VRSC Models only		
1	Wheel, 18 inch, rear (chrome)	Not Sold Separately
2	Bearing, ball (2)	9247
3	Sleeve, bearing spacer	43704-01
4	Valve stem (includes nut)	43206-01
5	Screw, pan head, Torx (5)	43567-92
Items Requiring Separate Purchase:		
6	Floating rotor	Reference only
7	Screw (5)	Purchased Separately*
8	Washer (5)	Purchased Separately*
* See your Harley-Davidson dealer.		

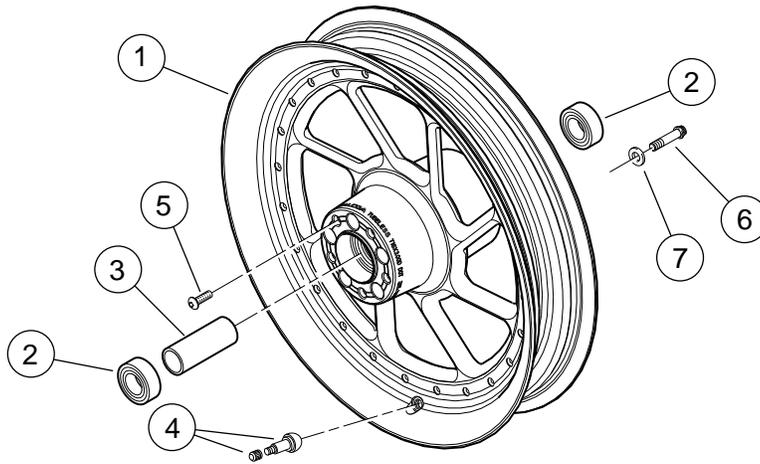


Figure 3. Service Parts: Road Winder Chrome Rear Wheel Kits

Table 3. Service Parts: Road Winder Custom Wheels

Item	Description (Quantity)	Part Number
For Models other than VRSC		
1	Wheel, eight spoke (Chrome)	Not Sold Separately
2	Bearing (2)	
	for kit 44636-03	9267
	for kit 44654-04	9267
	for kit 44677-03	9267
	for kit 44637-03	9267
	for kit 44638-03, 44638-03A	9247
	for kit 44747-04	9247
	for kit 44930-05	9247
3	Sleeve, bearing spacer	
	for kit 44636-03	43608-00
	for kit 44654-04	43608-00
	for kit 44677-03	43608-00
	for kit 44637-03	43608-00
	for kit 44638-03, 44638-03A	43517-00
	for kit 44747-04	43517-00
	for kit 44930-05	43517-00
4	Valve stem, long (with cap)	43206-01
Items Requiring Separate Purchase:		
5	Screw, pan head (5)	43567-92
6	Screw (5)	Purchased Separately*
7	Washer (5)	Purchased Separately*
* See your Harley-Davidson dealer. If installing kit 44638-03 on a 2007 Touring model, you must use five each of screw (part number 3737A) and washer (part number 6516HW).		