



# INSTRUCTIONS

-J03952

REV. 2006-07-27

## DEFINITIVE5™ FILTRATION SYSTEM KITS

### GENERAL

#### Kit Number

63800-07, 63801-07, and 63802-07

#### Models

**Table 1. Kits and Model/Fitments**

Kits	Model and Fitments
63800-07 - Silver Powder Coat Kit	<i>Touring:</i> 1999-2007 Twin Cam, 1999-2006 Twin Cam with Oil Cooler 62895-03A, 1992-1998 Evolution <i>Dyna:</i> 1999-2007 Twin Cam, 1991-1998 Evolution <i>Softail:</i> 1992-2007 Twin Cam, 1992-1999 Evolution <i>FXR:</i> 1992-1994 Evolution, 1999-2000 Evolution <i>Sportster:</i> 1992-2007 Evolution
63801-07 - Black Wrinkle Power Coat Kit	<i>Touring:</i> 1999-2007 Twin Cam, 1999-2006 Twin Cam with Oil Cooler 62895-03A, 1992-1998 Evolution <i>Dyna:</i> 1999-2007 Twin Cam, 1991-1998 Evolution <i>Softail:</i> 1992-2007 Twin Cam, 1992-1999 Evolution <i>FXR:</i> 1992-1994 Evolution, 1999-2000 Evolution <i>Sportster:</i> 1992-2007 Evolution
63802-07 - Chrome Plated Kit	<i>Touring:</i> 1999-2007 Twin Cam, 1999-2006 Twin Cam with Oil Cooler 62895-03A, 1992-1998 Evolution <i>Dyna:</i> 1999-2007 Twin Cam, 1991-1998 Evolution, Softail: 1992-2007 Twin Cam, 1992-1999 Evolution <i>FXR:</i> 1992-1994 Evolution, 1999-2000 Evolution <i>Sportster:</i> 1992-2007 Evolution

#### NOTE

These kits do not fit the Models with Premium Oil Cooler Kits listed in Table 2. These kits will also not fit Touring models with sidecars, and some models with front spoilers.

#### Additional Parts Required

Oil Filter Wrench (94686-00) is required to remove existing spin-on oil filter and can be purchased separately from a Harley-Davidson dealer.

**Table 2. Will Not Fit These Models With Premium Oil Cooler Kits**

Models	Oil Cooler Kits
1999-2006 Touring 2007 Touring	26082-05A 26155-07
2000-2006 Softail 2000-Later Softail	26136-05 26157-07
1999-2005 Dyna 2006 Dyna 2006-Later Dyna	26081-05A 26110-05 26151-07
1982-Later XL	62996-04

### 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 5 and Table 4.

### INSTALLATION

#### Remove Existing Engine Oil Filter and Adapter

1. Operate motorcycle until engine is warmed up to normal operating temperature.
2. Place suitable container under engine to drain oil.
3. Drain engine oil following the instructions in the Service Manual for your model.
4. See Figure 1 and Figure 2. Remove existing spin-on oil filter using the Oil Filter Wrench. Refer to the instructions in the Service Manual for your model.

#### NOTE

The use of oil filter wrench can prevent damage to crankshaft position sensor and/or sensor cable.

5. Remove oil filter adapter from oil filter housing.



Figure 1. Spin-On Oil Filter (Sportster Evolution Engine)

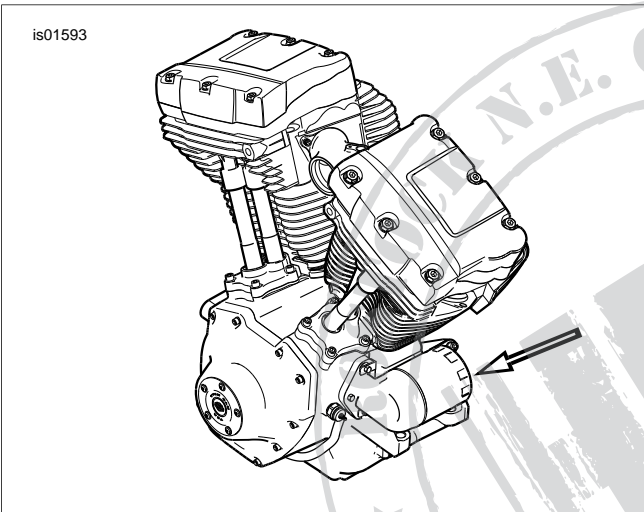


Figure 2. Spin-On Oil Filter (Twin Cam Engine)

4. Select appropriate anti-rotation device (6) for your model motorcycle.
5. Place anti-rotation device (6) into oil filter base. See Figure 4 and Table 3 for proper orientation.
6. Apply Loctite (12) to bond threaded adapter assembly (2) to oil filter mounting housing (4).
7. Place threaded adapter (2) inside oil filter housing (4).
8. See Figure 3. Align slotted hole on bottom of oil filter housing (Figure 5, Item 4) with tab on anti-rotation device (Figure 5, Item 6).

**NOTE**

See Figure 5 for Steps 9 through 13.

9. See Figure 5. Use 3/8 in. socket wrench extension (at least 7 in. long) to engage the square hole at bottom of threaded adapter assembly (2). Thread oil filter housing (4) into oil filter base. Tighten to 30 ft-lbs (40.7 Nm).

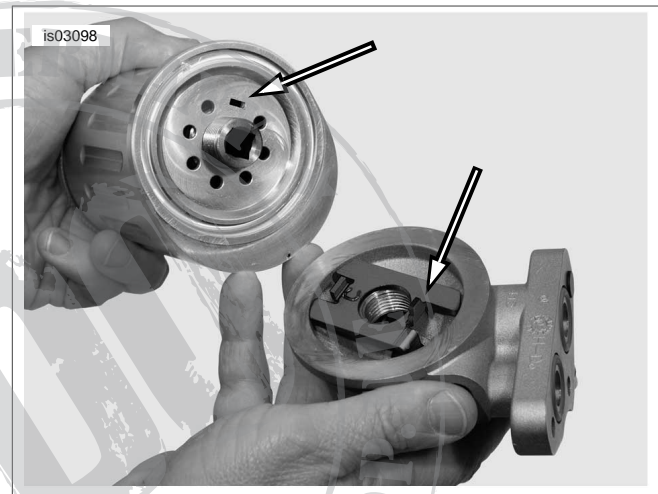


Figure 3. Oil Filter Housing/Anti-Rotation Device Alignment

**Install New Engine Oil Filter**

1. See Figure 5. Lubricate anti-backflow valve (1) from kit with clean oil, then place in groove on threaded adapter assembly (2).
2. Check if anti-backflow valve (1) is seated properly in groove of threaded adapter assembly (2).
  - a. Rotate the anti-backflow valve around the threaded adapter assembly. The anti-backflow valve should spin freely.
  - b. After installed, check that the outer lip of the anti-backflow valve contacts the inner base of the oil filter housing (4).
3. Lubricate O-ring (3) with clean engine oil, then place O-ring in groove of oil filter housing (4).

10. Lubricate O-ring (7) with clean engine oil, then place O-ring on cover (8).
11. Install filter element (9) onto threaded adapter assembly (2).
12. Thread cover into oil filter housing (4) until hand tight.
13. Using cover wrench (11), continue to tighten cover until it is flush with oil filter housing (4).

**NOTES**

On 2007 and later models equipped with Oxygen sensors, the sensor harness is routed along the back side of the left frame tube. When installing this kit, it is important that the harness does not contact the oil filter housing or oil filter cover. The harness should be routed along the inside frame tube rather than the back side of the frame tube. This will ensure there is enough play in the the harness to allow for engine movement.

Reroute any electrical wires or hoses that may contact the oil filter housing during engine operation.

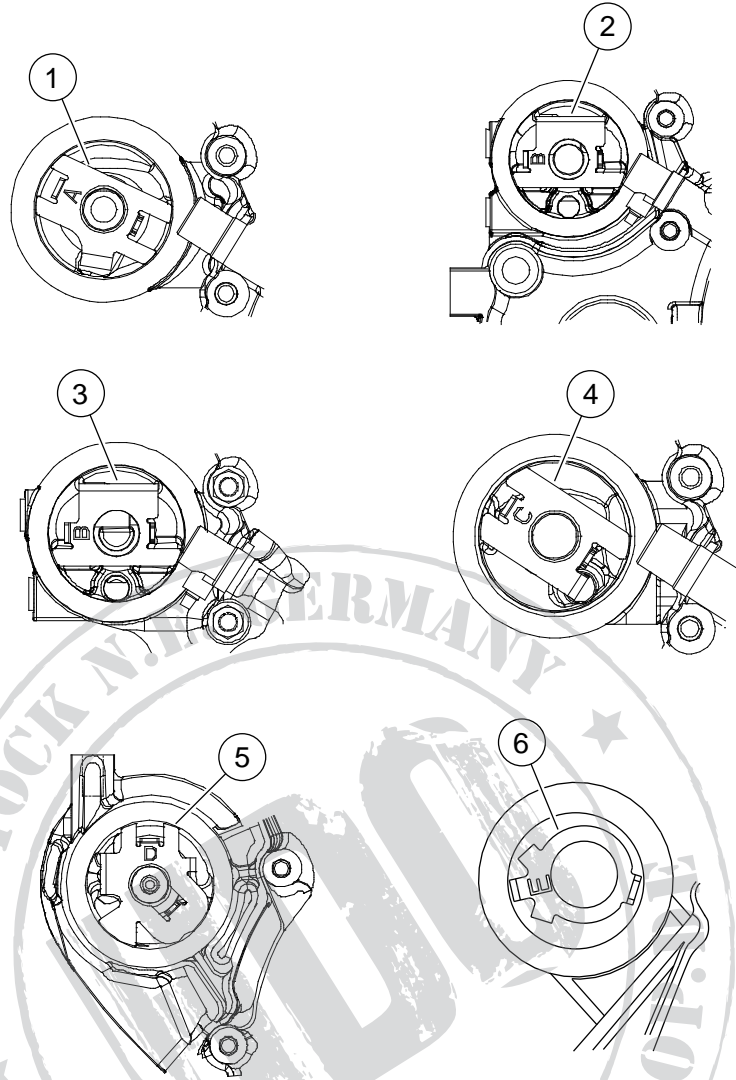


Figure 4. Anti-Rotation Device Orientation

Table 3. Anti-Rotation Device Orientation

Item	Letter	Model and Fitment
1	"A"	1999-2005 Dyna 1999-2006 Touring
2	"B"	2000-2007 Softail
3	"B"	2006-2007 Dyna 2007 Touring
4	"C"	1999-2006 Touring with Oil Cooler 62895-03A
5	"D"	1992-2007 Sportster
6	"E"	1991-1998 Dyna 1992-1994, 1999-2000 Evolution FXR 1992-1999 Softail 1992-1998 Touring

## Add Oil and Check Engine

1. Add engine oil following the instructions in the Service Manual for your model.
2. Check engine oil level using cold check procedure.
3. Start engine and carefully check for oil leaks. If necessary repair leaks before completing the installation.
4. Check engine oil level using hot check procedure.
5. If necessary, add oil until it registers at upper groove on dipstick. Be careful not to overfill.

## Change Oil

Refer to the Service Manual for procedures to change the oil for your model motorcycle.

## REPLACEMENT

### Remove Oil Filter Element

1. See Figure 5. Using the Definitive5™ cover wrench (11), loosen cover (8) and rotate until drain slots are fully visible and aligned vertically to allow draining fluid into a pan.

2. Unscrew cover and dispose of the filter element (9) according to local regulations.
3. Inspect interior of oil filter housing (4) for any solid matter and wipe clean with a lint free cloth.

### Install Oil Filter Element

1. See Figure 5. Install open end of filter element (9) onto threaded adapter assembly (2) and push gently over O-ring (10) to seat element.
2. Thread cover (8) into oil filter housing (4) until hand tight. Using cover wrench (11), continue to tighten cover until it is flush with the oil filter housing.
3. After filling oil filter tank, run engine and check for any leaks around oil drain plug and oil filter. Recheck oil level.

### Threaded Adapter Assembly and Oil Filter Housing

If the threaded adapter assembly or oil filter housing require servicing, consult a Harley-Davidson dealer for assistance.

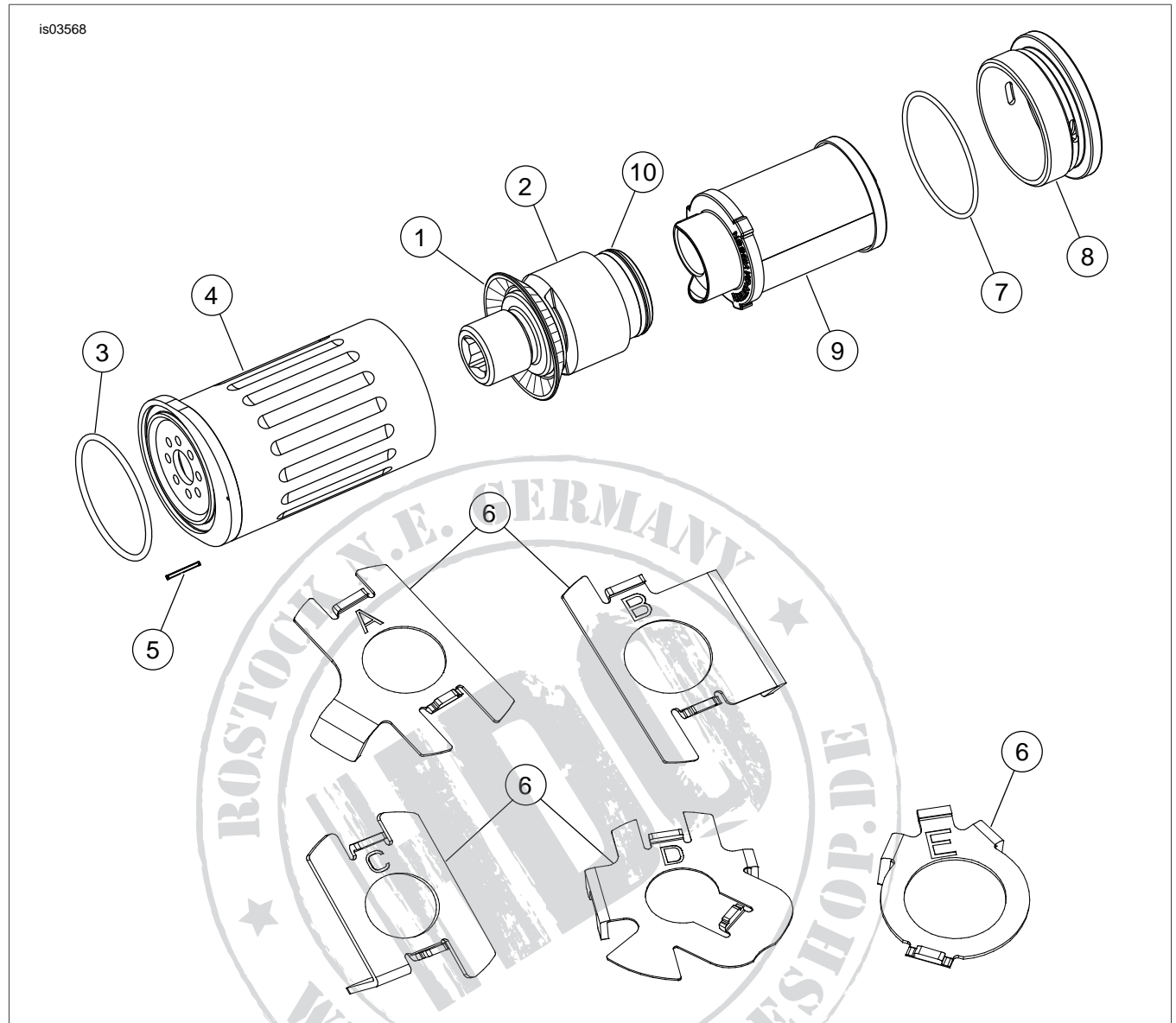
### Seal Replacement Kit

The engine oil filter seals, O-rings, and pin can be replaced by ordering Seal Replacement Kit 63833-07 (Figure 5, Item 13). Consult a Harley-Davidson dealer for assistance.



# SERVICE PARTS

is03568



**Figure 5. Service Parts: Definitive5 Filtration System Kits**

**Table 4. Service Parts: Definitive5 Filtration System Kits**

Item	Description (Quantity)	Part Number
1	Anti-backflow valve	63820-07
2	Threaded adapter assembly	Not Sold Separately
3	O-ring	11583
4	Oil filter housing (includes Item 5)	Not Sold Separately
5	Pin	Not Sold Separately
6	Anti-rotation devices (See Table 5)	Not Sold Separately
7	O-ring	11584
8	Cover, silver powder coat	63841-07
	Cover, black wrinkle powder coat	63845-07
	Cover, chrome plated	63847-07
9	Filter element	63834-07
10	O-ring	11585



**Table 4. Service Parts: Definitive5 Filtration System Kits**

Item	Description (Quantity)	Part Number
11	Cover wrench (not shown, purchased separately)	63832-07
12	Loctite, 0.5 ml tube (Not Shown)	Not Sold Separately
13	Seal Replacement Kit (Not Shown) (includes Items 1, 3, 5, 7, 10)	63833-07

**Table 5. Anti-Rotation Devices**

Letter Designation	Model and Fitment
"A"	Dyna: 1999-2005 Twin Cam Touring: 1999-2006 Twin Cam
"B"	Dyna: 2006-2007 Twin Cam Softail: 2000-2007 Twin Cam Touring: 2007 Twin Cam
"C"	Touring: 1999-2006 Twin Cam with Oil Cooler 62895-03A
"D"	Sportster: 1992-2007 Evolution
"E"	Dyna: 1991-1998 Evolution FXR: 1992-1994 Evolution, 1999-2000 Evolution Softail: 1992-1999 Evolution Touring: 1992-1998 Evolution

