-J06174 2015-04-30

SCREAMIN' EAGLE PRO TWIN CAM 110 (1800 CC) BOLT-ON **CONVERSION KIT**

GENERAL

Kit Number

92500033

Models

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

Installation Requirements

Separate purchase and installation of extra parts or accessories may be required for proper installation of this kit. See the P&A Retail Catalog or the Parts and Accessories section of www.harley-davidson.com (English only).

Proper installation of this kit also requires the use of Digital Technician™ at a Harley-Davidson dealer or a separate purchase or use of Screamin' Eagle Street Performance Tuner Kit.

NOTE

Do not use stock CVO pistons with the 4" Bolt-on Cylinders or interference occurs between the pistons and crankcase.

A 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. One is available from a Harley-Davidson dealer.

Kit Contents

See Figure 1 to Figure 4, and Table 1 to Table 4.

NOTE

This kit is intended for high performance applications only. This engine related performance kit is legal for sale or use in California on pollution controlled motor vehicles when installed on models specified. with your local Harley-Davidson dealer for compliance requirements in your area.

A partial emissions tune-up label and a product information label are included with this kit as a requirement of the California Air Resource Board (CARB)/EPA emissions regulation. Locate the emissions label on the frame tube below the handlebars. Place the new partial label from this

kit over the top portion of the emissions label on the frame tube.

REMOVAL

Prepare for Service

- Disarm security system.
- 2. Raise the motorcycle.
- See the service manual. Remove seat.
- See the service manual. Remove main fuse.

A WARNING

When servicing the fuel system, do not smoke or allow open flame or sparks in the vicinity. Gasoline is extremely flammable and highly explosive, which could result in death or serious injury. (00330a)

See the service manual. Remove fuel tank.

Remove Engine Components

- See the service manual. Remove existing air cleaner assembly.
- See the service manual. Remove existing exhaust system.
- See the service manual. Disassemble engine top end and cam plate assembly.
- See the service manual. Remove existing clutch diaphragm spring.

INSTALLATION

Install Engine and Clutch Components

- See Figure 4. Install new inner cam bearings included with this kit.
- See Figure 1 through Figure 4. Assemble cams to cam plate and engine top end using parts from kit. Refer to appropriate ENGINE sections in service manual.
- See the service manual. See Install clutch diaphragm spring from kit.

Calibrate the ECM before connecting the ACR overlay harness connectors to the ACR solenoids in the cylinder heads.

Install the ACR Overlay Wire Harness Kit according to the instructions in the kit.

- SoftailModels: See the service manual. Install exhaust system. Dyna Models: For required mufflers see the P&A Retail Catalog or the Parts and Accessories section of www.harley-davidson.com (English only).
- Install air cleaner assembly. Follow instructions in air cleaner kit.

Final Assembly

- 1. See the service manual. Install fuel tank.
- 2. See the service manual. Install seat.
- 3. See the service manual. Install main fuse.

▲ 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)

NOTICE

You must recalibrate the ECM when installing this kit. Failure to properly recalibrate the ECM can result in severe engine damage. (00399b)

- Download the new ECM calibration using the Digital Technician at a Harley-Davidson dealer or using Screamin' Eagle Street Performance Tuner Kit.
- Run engine. Repeat several times to verify proper operation.

Operation

Refer to BREAK-IN RIDING RULES in the Owner's Manual to break in the motorcycle.



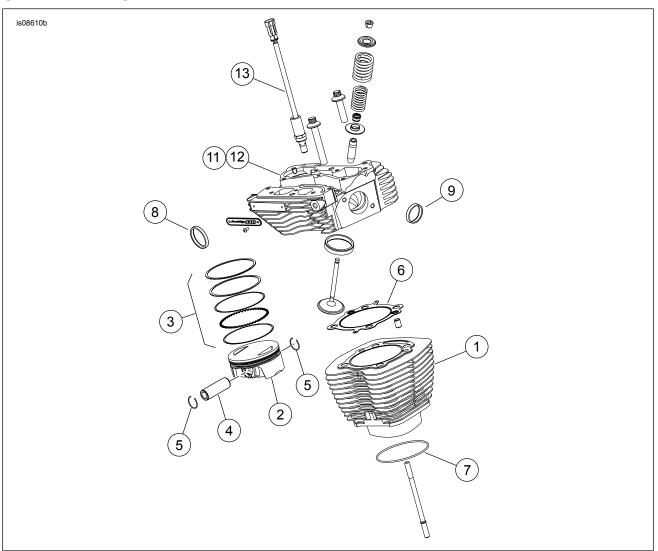


Figure 1. Service Parts: Screamin' Eagle Twin Cam 110 (1800 cc) Bolt-on Converstion Kit

Table 1. Service Parts: Screamin' Eagle Twin Cam 110 (1800 cc) Bolt-On Conversion Kit

Item	Description (Quantity)	Part Number	Item	Description (Quantity)	Part Number
1	Cylinder assembly (Black) (2)	16800102	8	Gasket, exhaust port (2)	65324-99A
2	Piston (2)	Not Sold Separately	9	Seal, intake manifold (2)	26995-86B
3	Piston Ring Set (2)	21951-11	10	Valve seal (4) (not shown)(not re-	18094-02A
				quired)	

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Table 1. Service Parts: Screamin' Eagle Twin Cam 110 (1800 cc) Bolt-On Conversion Kit

Item	Description (Quantity)	Part Number	Item		Part Number	
4	Piston pin (2)	22100001	11	Cylinder head, front (black) (includes	17288-08A	
				ACR)		
5	Piston pin circlip (4)	22097-99	12	Cylinder head, rear (black) (includes	17252-07A	
				ACR)		
6	Gasket, cylinder head (2)	16801-07B	13	Automatic Compression Release	28861-07A	
				(ACR)		
7	O-ring, cylinder spigot (2)	11256	Notes: Piston Kit (2190050) includes 2 through 5.			
			Item 6 through 10 are also included in Top End and Cam Gasket			
			Kit (16500385). Refer to 2010 FLHTCUSE5 Parts Catalog (99428-			
			14) for cylinder head assembly (11, 12) components.			

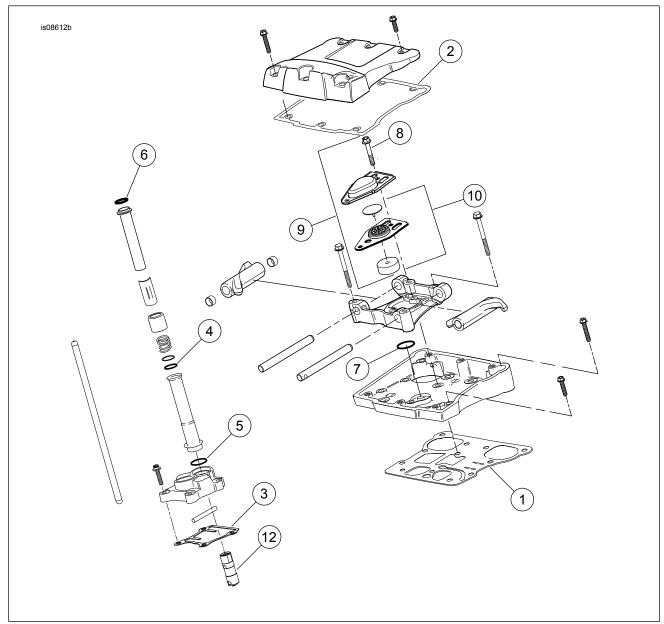


Figure 2. Service Parts: Screamin' Eagle Twin Cam 110 (1800 cc) Bolt-on Conversion Kit

Table 2. Service Parts: Screamin' Eagle Twin Cam 110 (1800 cc) Bolt-on Conversion Kit

Item	(Part Number	Item	Description (Quantity)	Part Number
1	Gasket, rocker cover base (2)	16719-99B	8	Breather bolt (4)	4400
2	Gasket, rocker cover top (2)	17386-99A	9	Breather assembly (2)	17025-03A
3	Gasket, tappet cover (2)	18635-99B		gaskets (2)]	26500002
4	O-ring, middle push rod cover (4)	11132A		Spring, clutch diaphragm (2) (Not Shown)	37951-98
5	O-ring, lower push rod cover (4)	11145A	12	High capacity tappet kit	18572-13

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Table 2. Service Parts: Screamin' Eagle Twin Cam 110 (1800 cc) Bolt-on Conversion Kit

Item	Description (Quantity)	Part Number	Item	Description (Quantity)	Part Number
6	O-ring, upper push rod cover (4)	11293	Note	s: Items 1 through 10 are included	I in Top End and Cam
7	O-ring, rocker arm support (2)	11270	Gask	tet Kit (16500385).	

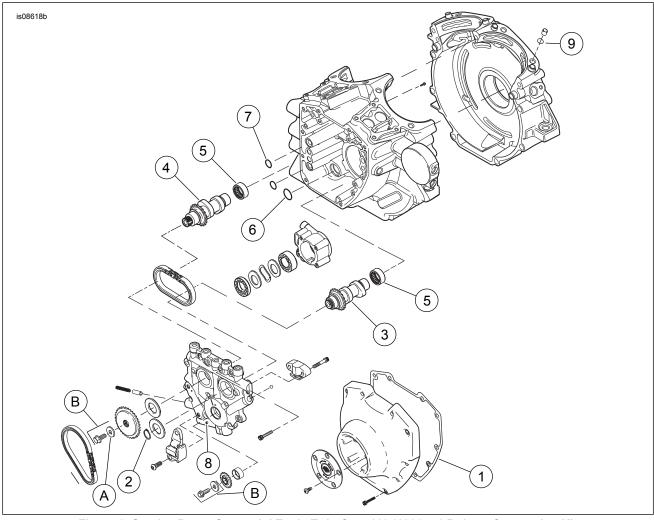


Figure 3. Service Parts: Screamin' Eagle Twin Cam 110 (1800 cc) Bolt-on Conversion Kit

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Item	Description (Quantity)	Part Number		
1	Gasket, cam cover	25244-99A		
2	Retaining ring	11461		
3	Camshaft, front	Not Sold Separately		
4	Camshaft, rear	Not Sold Separately		
5	Bearing kit, needle, left side (2)	24018-10		
6	O-ring, oil pump to cam plate	11293		
7	O-ring, cam plate to crankcase (2)	11301		
8	Roll pin	601		
9	O-ring, crankcase dowel (2)	11273		
Items mentioned in text, but not included in kit:				
Α	Washer	6294		
В	Cam drive retention kit (includes screw and washer)	25566-06		
Items 3	and 4 are available in Cam Kit (25485-07)	•		
Items 1	1. 3.and 5 through 9 are included in 4 in Bolt-On Kit Twin Cam Air Cooled T	op End and Cam Gasket Kit (16500385		

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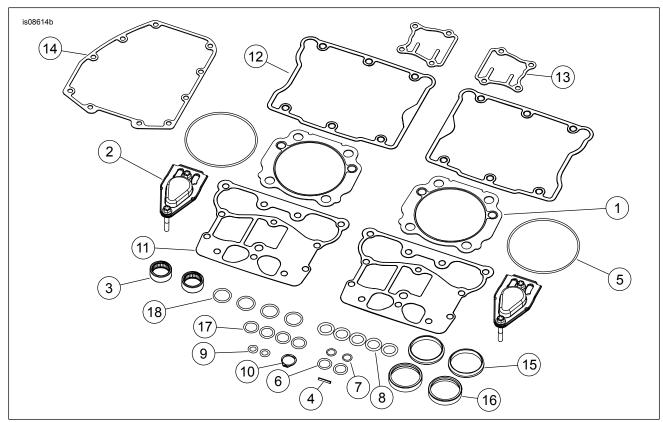


Figure 4. Service Parts: Screamin' Eagle Twin Cam 110 (1800 cc) Bolt-on Conversion Kit

Table 4. Service Parts: Screamin' Eagle Twin Cam 110 (1800 cc) Bolt-on Conversion Kit

Item	Description (Quantity)	Part Number		
1	Gasket, cylinder head (2)	16500168		
2	Breather assembly (2)	17025-03A		
3	Bearing kit, needle, left side, camshaft (2)	24018-10		
4	roll pin, cam plate pressure relief	601		
5	O-ring, cylinder spigot (2)	11256		
6	O-ring, rocker arm support (2)	11270		
7	O-ring, crankcase dowel (2)	11273		
8	O-ring, upper push rod cover (4), oil pump to cam plate (1)	11293		
9	O-ring, cam plate to crankcase (2)	11301		
10	Retaining ring	11461		
11	Gasket, rocker cover base	16719-99B		
12	Gasket, rocker cover top (2)	17386-99A		
13	Gasket, Tappet cover (2)	18635-99B		
14	Gasket, cam cover	25244-99A		
15	Seal, intake manifold (2)	26995-86B		
16	Gasket, exhaust port (2)	65324-83B		
17	O-ring, middle push rod cover (4)	11132A		
18	O-ring, lower push rod cover (4)	11145A		
Items mentioned in text, but not included in kit:				
Α	Valve seal (4) (not shown) (not required)	18094-02A		
Items 1, through 18 are included in 4 in Bolt-on Air Cooled Top End and Cam Gasket Kit (Part no. 16500385).				

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