-J06173 2015-04-30

# SCREAMIN' EAGLE PRO TC 110 (1800 CC) BOLT-ON **CONVERSION KIT**

#### **GENERAL**

### **Kit Number**

92500032

#### 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

Installation of this kit by an authorized Harley-Davidson dealer will not impact your limited vehicle warranty.

The kit is intended for High Performance applications only. This engine-related performance kit is legal for sale or use in select countries or regions on pollution controlled motor vehicles. Check with your local Harley-Davidson dealer for compliance requirements in your area.

The partial emissions label contained in this kit is a requirement for emissions regulations for all 50-State models listed in the fitment statement. Locate the emissions label on

the frame tube below the handlebars. Install the partial label from this kit over the **top portion** of the label on the vehicle.

### **REMOVAL**

### Prepare for Service

- 1. Disarm security system.
- 2. Raise the motorcycle.
- See the service manual. Remove seat.
- 4. 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.
- US Models: See the service manual. Install exhaust system. Non-US Models: For required head pipe and muffler see the P&A Retail Catalog or the Parts and Accessories section of www.harley-davidson.com (English only).

 US Models: Install air cleaner assembly. Follow instructions in air cleaner kit. Non-US Models: For required air cleaner element and back plate see the P&A Retail Catalog or the Parts and Accessories section of www.harley-davidson.com (English only).

## **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.

### **A 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)

- 4. 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.

### **SERVICE PARTS**

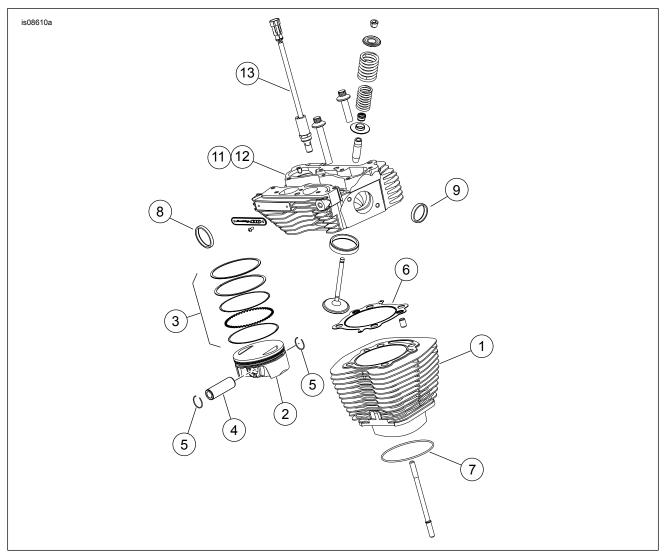


Figure 1. Service Parts: Screamin' Eagle Twin Cam 110 (1800 cc) Bolt-on Converstion Kit

Table 1. Service Parts: Screamin' 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)                              |             |
| 4    | Piston pin (2)                | 22100001            | 11   | Cylinder head, front (black) (w/ACR) | 16500269    |

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Table 1. Service Parts: Screamin' Bolt-On Conversion Kit

| Item | Description (Quantity)      | Part Number | Item           | Description (Quantity)  | Part Number                             |
|------|-----------------------------|-------------|----------------|---|---|
| 5    | Piston pin circlip (4)      | 22097-99    | 12             | Cylinder head, rear (black) (w/ACR)   | 16500270                                |
| 6    | Gasket, cylinder head (2)   | 16500168    | 13             | Automatic Compression Release (ACR)   | 18400035                                |
| 7    | O-ring, cylinder spigot (2) | 11256       | Item<br>Kit (1 | s: Piston Kit (2100050) includes 2 thro<br>6 through 10 are also included in Top I<br>6500386). Refer to 2014 FLHTKSE P<br>or cylinder head assembly (11, 12) cor | End and Cam Gasket arts Catalog (99428- |

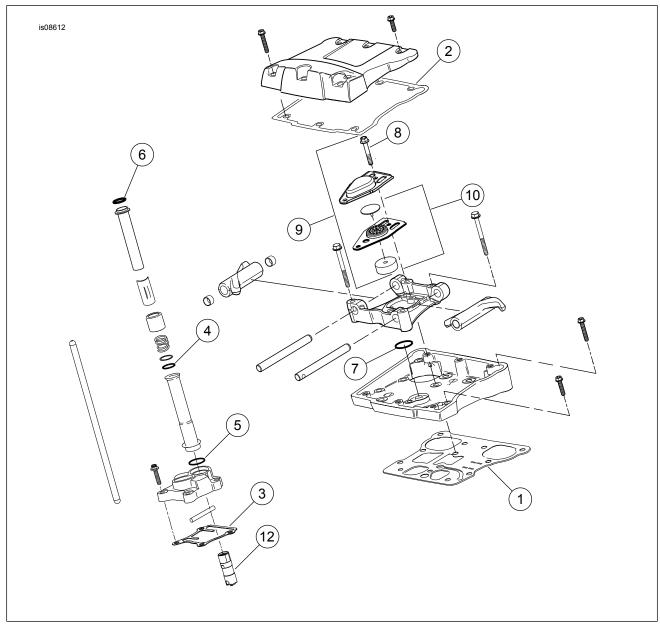


Figure 2. Service Parts: Screamin' Eagle Twin Cam 110 (1800 cc) Bolt-on Conversion Kit

Table 2. Service Parts: Screamin' Eagle Bolt-on Conversion Kit

| Item | Description (Quantity)            | 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   |      | (2)                                      | 26500002    |
|      | O-ring, middle push rod cover (4) |             | 11   | 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 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 | et Kit (16500386).                 |                      |

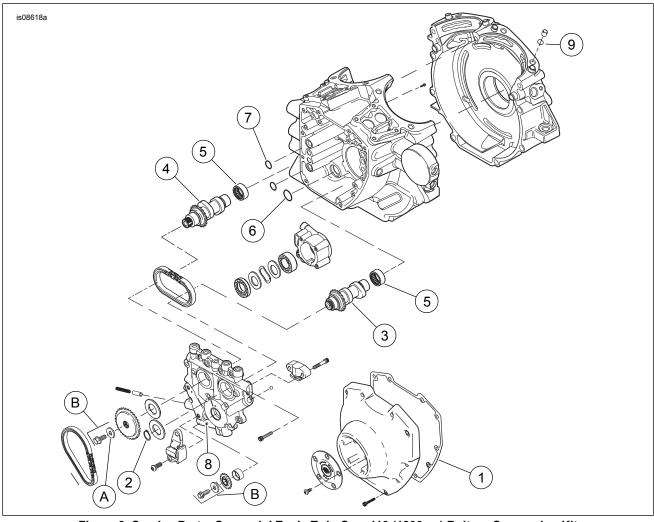


Figure 3. Service Parts: Screamin' Eagle Twin Cam 110 (1800 cc) Bolt-on Conversion Kit

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

| 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   | 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, 2,and 5 through 9 are included in 4 in Bolt-On Kit Twin-Cooled Top End and Cam Gasket Kit (16500386) |   |                     |  |  |  |

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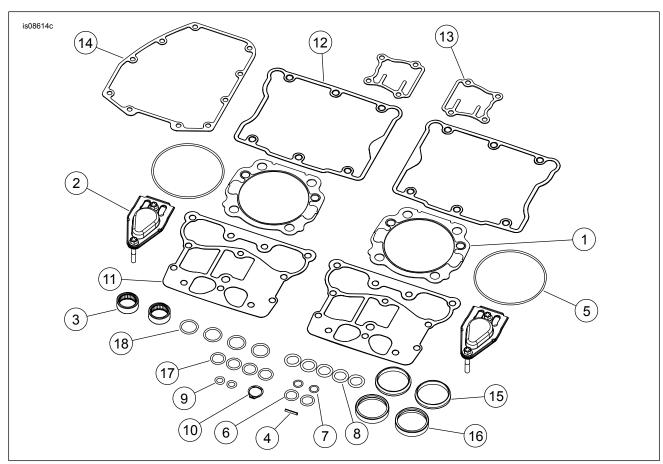


Figure 4. Service Parts: Screamin' Eagle Twin Cam 110 (1800 cc) Bolt-on Conversion Kit

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   | 11301       |  |  |  |
| 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   | Items mentioned in text, but not included in kit:  |             |  |  |  |
| Α       | Valve seal (4) (not shown) (not required)  | 18094-02A   |  |  |  |
| Items 1 | Items 1, through 18 are included in 4 in Bolt-on Twin-Cooled Top End and Cam Gasket Kit (Part no. 16500386). |             |  |  |  |

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