



# INSTRUCTIONS

J05456

2025-01-23



## SCREAMIN' EAGLE PRO TC 103 CI (1690 CC) STAGE 4 KIT

### GENERAL

#### Kit Number

92500010B

#### Models

For model fitment information, see the Parts and Accessories (P&A) Retail Catalog or the Parts and Accessories section of [www.harley-davidson.com](http://www.harley-davidson.com).

Contact Harley-Davidson Customer Support Center at 1-800-258-2464 (U.S. only) or 1-414-343-4056.

### Installation Requirements

#### ⚠ WARNING

**Rider and passenger safety depend 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. (00333b)**

#### NOTE

*This instruction sheet references service manual information. A service manual for the year and model motorcycle is required for this installation and is available from:*

- A Harley-Davidson dealer.
- H-D Service Information Portal, a subscription-based access available for most 2001 and newer models. For more information see *Frequently ask questions about subscriptions*.

These items are available at your local Harley-Davidson dealership:

This kit is intended for vehicles that are 103 CI displacement with a stock 3.875 inch bore. If the cylinders are damaged or worn, replace the cylinder assemblies (Part No. 16547-99A)(QTY 2 required).

- Separate purchase of Camshaft Drive Retention Kit (Part No. 91800088) is required.
- Separate purchase of Camshaft Service Kit (17045-99D) is required.
- Separate purchase of Camshaft Spacer Kit (25928-06) is recommended. This kit contains five different spacers to achieve proper sprocket alignment.
- Separate purchase of Screamin' Eagle® (SE) air cleaner kit. Kit must be compatible with the supplied 58mm throttle body. See SE Pro catalog for available kits.
- Special tools are required to install this kit. See appropriate sections in service manual.

- Proper installation of this kit also requires Electronic Control Module (ECM) recalibration. Contact a Harley-Davidson dealer for details.

### Kit Contents

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

#### NOTE

*This kit is intended for High Performance or Racing applications only and is not legal for sale or use on pollution controlled motor vehicles. This kit may reduce or void the limited vehicle warranty. Engine related performance parts are intended for the experienced rider only.*

### REMOVAL

#### Prepare for Service

1. Position motorcycle on a suitable lift.

#### NOTE

*If vehicle is equipped with Harley-Davidson Smart Security System, see Owner's Manual for instructions to disarm the system.*

2. Remove seat according to the instructions in the service manual.

#### ⚠ 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)**

3. Remove fuel tank according to the instructions in the service manual.

4. Remove main fuse. Refer to service manual for your motorcycle.

### Remove Engine Components

1. Remove existing air cleaner assembly. See service manual.
2. Remove existing exhaust system. See service manual.
3. Disassemble engine top end and camshaft plate assembly. See service manual.
4. Remove existing clutch diaphragm spring. See service manual.



## INSTALLATION

### Install Engine and Clutch Components

1. See Figure 3. Inspect camshaft needle bearings (5) and replace if necessary.
2. See Figure 2 through Figure 3. Assemble cams to camshaft plate, performance cylinder heads and engine top end using parts from kit. See service manual.
3. Assemble throttle body and injectors from kit using original equipment fuel line and fuel rail. Refer to instructions in the supplied throttle body kit.
4. Install throttle body assembly to engine using intake flanges and seals supplied in the throttle body kit. Refer to instructions from the supplied throttle body kit.
5. Install clutch diaphragm spring from kit. See service manual.
6. Install exhaust system. See service manual.
7. Install air cleaner assembly. See service manual.

### Final Assembly

1. Install main fuse. Refer to service manual for your motorcycle.
2. Install fuel tank according to the instructions in the service manual.

3. Install seat according to the instructions in the service manual.

#### ⚠ 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. Recalibrate ECM. Contact a Harley-Davidson dealer for details.
5. Start and run engine. Repeat several times to verify proper operation.

### Operation

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

## SERVICE PARTS

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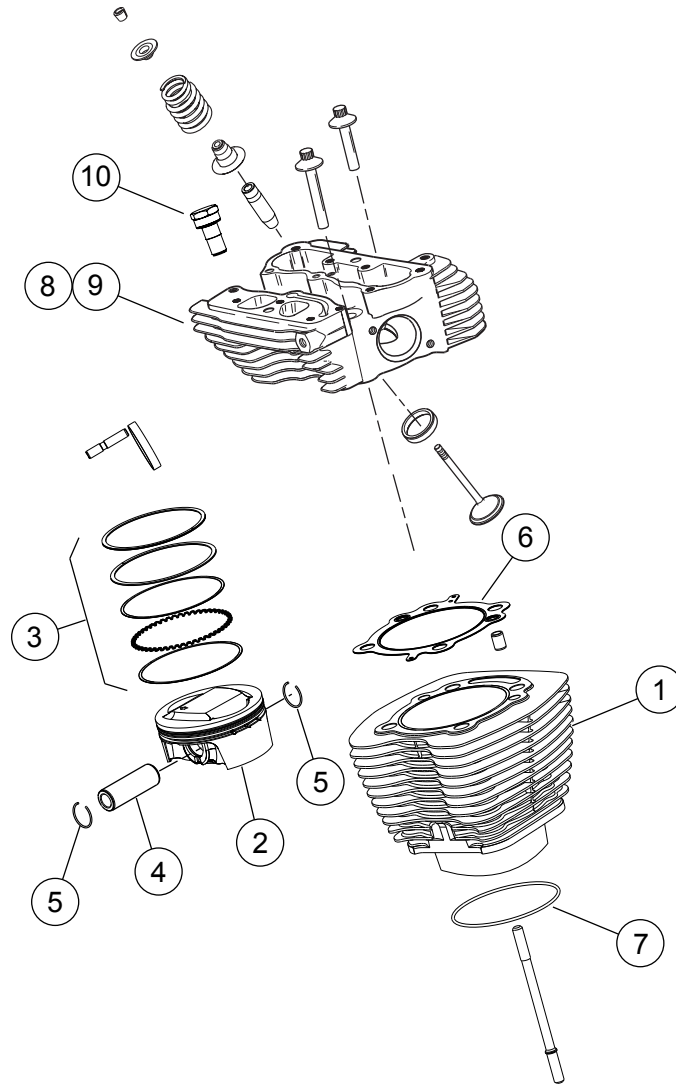


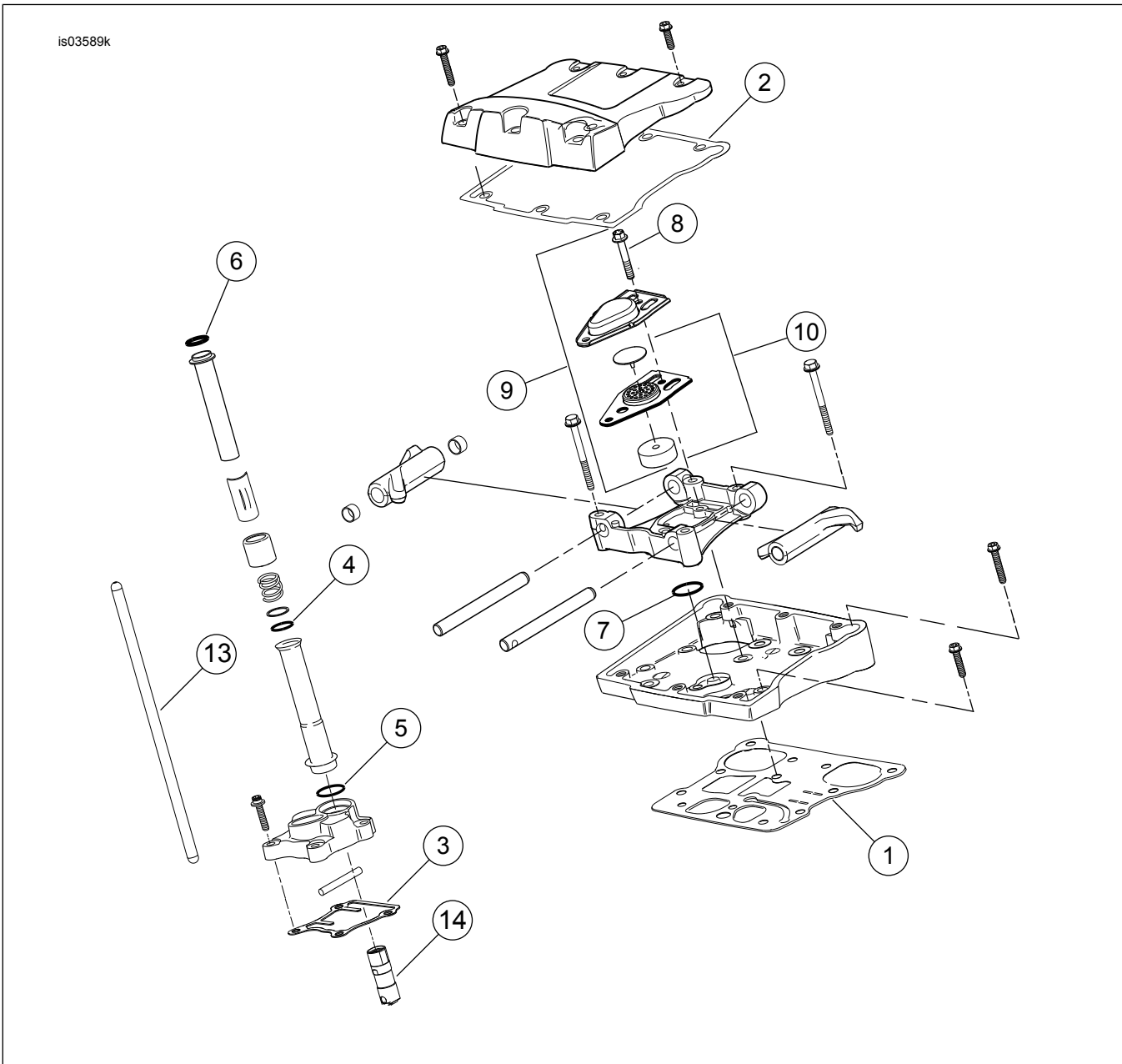
Figure 1. Service Parts: Screamin' Eagle TC 103 (1690 cc) Stage 4 Kit

Table 1. Service Parts Table: Screamin' Eagle PRO TC 103 (1690 cc) Stage 4 Kit

Item	Description (Quantity)	Part Number	Item	Description (Quantity)	Part Number
1	3.875 cylinder assembly (black) (2)	16547-99A	7	O-ring, cylinder base	11256
2	Piston (2)	Not Sold Separately	8	Cylinder head assembly, front (black)	16500014A
3	Piston ring set (2)	22457-10	9	Cylinder head assembly, rear (black)	16500015A
4	Piston pin (2)	22455-03	10	Automatic compression release (ACR) plug	16648-08A

**Table 1. Service Parts Table: Screamin' Eagle PRO TC 103 (1690 cc) Stage 4 Kit**

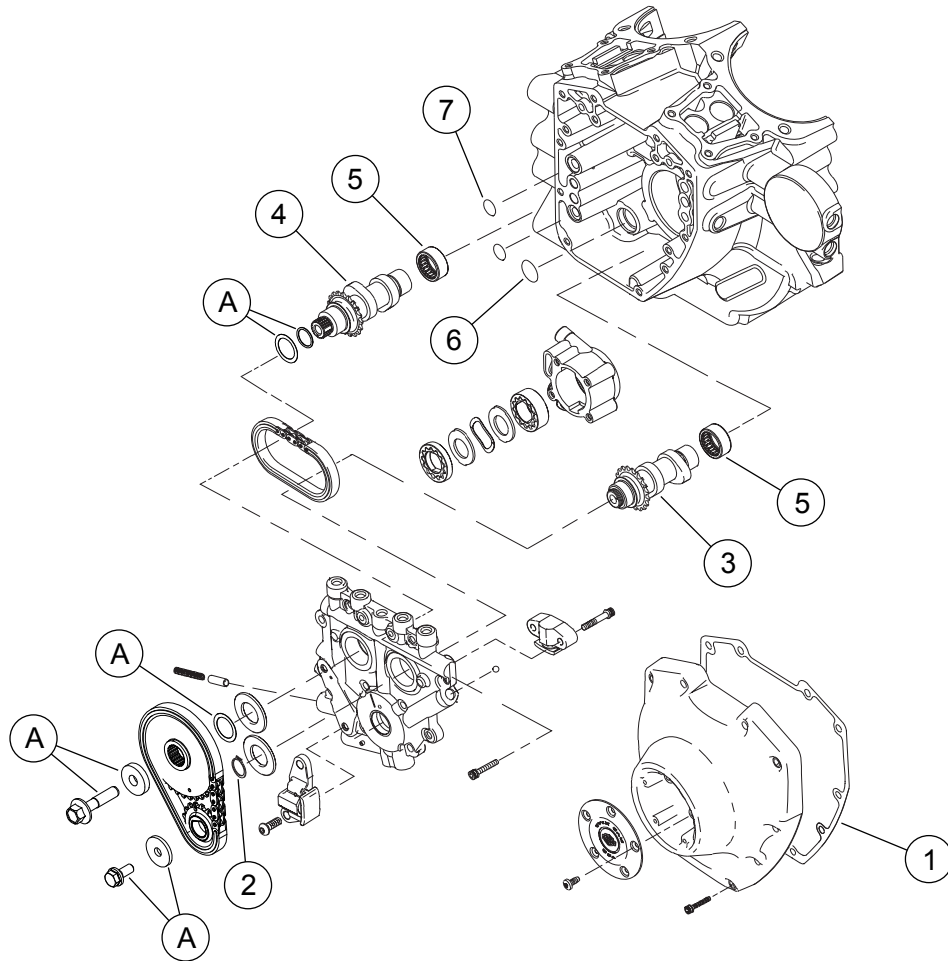
Item	Description (Quantity)	Part Number	Item	Description (Quantity)	Part Number
5	Piston pin circlip (4)	22097-99	Notes: Piston Kit (22144-08B) includes items 2 through 5. For cylinder head assembly (8, 9) components, refer to instruction sheet J04792.		
6	Gasket, cylinder head (2)	16787-99A			



**Figure 2. Service Parts: Screamin' Eagle TC 103 (1690 cc) Stage 4 Kit**

**Table 2. Service Parts: Screamin' Eagle TC 103 cubic inch (1690 cc) Stage 4 Kit**

Item	Description (Quantity)	Part Number	Item	Description (Quantity)	Part Number
1	Gasket, rocker cover base (2)	16719-99A	10	Baffle assembly (2)	26500002
2	Gasket, rocker cover top (2)	17386-99A	11	Seal, EFI intake (2) (Not Shown)	29995-86B
3	Gasket, tappet cover (2)	18635-99B	12	Seal, map sensor (2) (Not Shown)	11291
4	O-ring, middle push rod cover (4)	11132A	13	Perfect fit pushrods kit	18400-03
5	O-ring, lower push rod cover (4)	11145A	14	Tappet (4)	18572-13
6	O-ring, upper push rod cover (4)	11293	Notes: Breather assembly 17025-03A includes 8 through 10. Items 1 through 11 are included in Upper End Overhaul Kit (17052-99C) and items 6 and 7, Figure 1.		
7	O-ring, rocker arm support (2)	11270			
8	Breather bolt (4)	4400			
9	Breather assembly (2)	17025-03A			



**Figure 3. Service Parts: Screamin' Eagle Pro TC 103 (1690 cc) Stage 4 Kit**

**Table 3. Service Parts: Screamin' Eagle TC 103 (1690 cc) Stage 4 Kit**

Item	Description (Quantity)	Part Number
1	Gasket, cam cover	25244-99A
2	Retaining ring	11461
3	Camshaft, front, SE-259E	Not Sold Separately
4	Camshaft, rear, SE-259E	Not Sold Separately
5	Bearing, needle (2) (must be purchased separately, if needed)	9215
6	O-ring, oil pump to cam plate	11293
7	O-ring, cam plate to crankcase (2)	11301
8	Hi-flow injectors kit (not shown)	27797-07
9	58 mm ETC throttle body kit (not shown)	27639-07A
10	Manifold, 58 mm throttle body kit (not shown)	29667-07
11	Performance Clutch Diaphragm Spring (not shown)	37951-98
<b>Items mentioned in text, but not included in kit:</b>		
A	Cam drive retention kit (includes screw and washer)	91800088
Notes: Items 1, 2, 6 and 7 are included in Cam Service Gasket Kit (17045-99D). Items 3 and 4 available in Cam Kit (25482-10).		