



INSTRUCTIONS

-J02626

REV. 10-1-02

Kit Numbers 29298-02

SCREAMIN' EAGLE COMPRESSION RELEASE KIT

General

This kit is designed for installation on all twin cam Screamin' Eagle cylinder heads having 10:1 compression or greater.

NOTE

A service manual for your motorcycle is available at your Harley-Davidson dealership.

WARNING

A SERVICE MANUAL IS NEEDED TO REMOVE ORIGINAL PARTS AND INSTALL THIS KIT. The rider's safety depends upon the correct installation of this kit. If the procedure is not within your capabilities or you do not have the correct tools, have your Harley-Davidson dealer perform the installation. Improper installation of this kit could result in death or serious injury.

WARNING

To protect against shock and accidental start-up of vehicle, disconnect the battery cables, negative cable first, before proceeding. Inadequate safety precautions could result in death or serious injury.

WARNING

Always disconnect the negative battery cable first. If the positive battery cable should contact ground with the negative cable installed, the resulting sparks may cause a battery explosion which could result in death or serious injury.

WARNING

Gasoline is extremely flammable and highly explosive under certain conditions. Do not smoke or allow open flame or sparks anywhere in the area when draining or servicing the fuel system. Drain gasoline into approved gasoline container only. Inadequate safety precautions could result in death or serious injury.

QTY	Description	Part No.
2	Compression release	32067-02

Installation

Installation of this kit is divided into 3 steps:

- Removal of cylinder heads
- Machining of cylinder heads
- Assembly of cylinder heads

Cylinder Head Removal

1. Refer to engine section of corresponding service manual for cylinder head removal procedures.

Machining of Cylinder Head

2. See Figure 1. Starting with the front cylinder head, mark a point which is .89 inches forward of the rear head bolt mounting hole and .32 inches inward from a line joining the centers of the head bolt holes.
3. Mark this point with a center punch at least .050" deep.
4. Mark a similar point on the rear head except this point will be .89" rear ward of the front head bolt mounting hole and .32" inward.
5. Fixture cylinder head so it sits at a 15° angle with the spark plug hole side up.
6. Drill a .090" (3/32) hole through the center punched hole until it breaks through into combustion chamber.
7. With head still fixtured at 15°, spot face a .75" dia pad. Go only deep enough to clean up.
8. Drill a .355" to .360" diameter (23/64 or "T" letter drill) hole .75" deep and tap a M10x1 thread .63" deep.
9. Completely clean and remove all chips around machined hole.
10. Install compression releases and torque to 12-18 ft-lbs (16-24 Nm).

Assembly of Cylinder Heads

11. Refer to engine section of corresponding service manual for cylinder head installation procedures.

Operation

Press both compression releases prior to starting engine. Cylinder pressure will reset the compression release once engine starts.

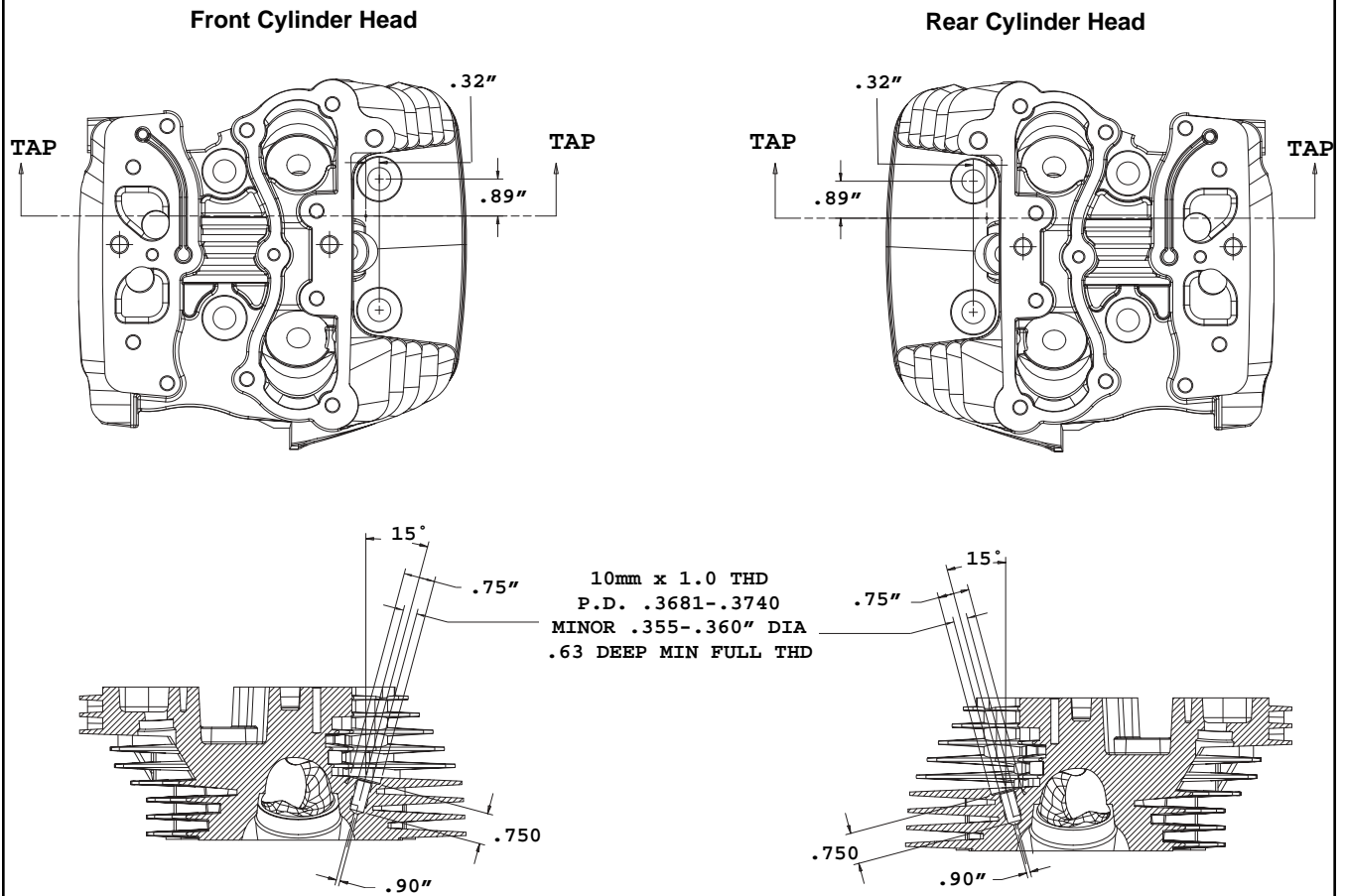


Figure 1. Cutaway through Cylinder Head