

Replacement Part Instructions:

Harley-Davidson TwinCam 88 Engines. Delkron Cam Support Plate

INSTRUCTION SHEET
PART # X-8020
(REVISED-SEP-2000)



Please read through ALL of these instructions before you attempt to remove or install any parts on your motorcycle.

General:

This kit is designed to fit 1999 and later Harley-Davidson Twin Cam 88 engines and uses Bearing Retainer Plate #35060-00.

Attention: This cam support plate uses the 2000 and later bearing retainer plate. HD part number 35060-00. Do not try to fit a 1999 bearing retainer plate on this cam plate:

- 1 Allen head NPT Pipe plug.
- 2 O-rings.
- 8 1/4-20 x 1" long SHCS.
- 2 1/4-20 x 1 1/4" long SHCS.

Note:

A Service Manual for your vehicle is available from your Harley-Davidson Dealer.

Installation:

WARNING

The rider's safety depends on the correct installation of this kit. Follow the procedures Sheet and applicable Service Manual. If any procedures are not within your capabilities, or you do not have the correct tool, have your Harley-Davidson Dealer perform the installation. Improper installation could result in death or serious injury.

WARNING

To prevent accidental startup and possible personal injury, always disconnect the negative battery cable when working on a motorcycle. If the positive 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.

1. Disconnect negative battery cable.
2. Refer to the applicable Service Manual and remove the cam support plate.
3. Refer to Figures 1 and 2. Examine the right crankcase half and note the addition of a boss on the -99a crankcase.
4. If the boss is present, as shown in Figure 2, install the O-ring from the kit into position in the groove of the boss. Then install the cam support plate following instruction in the applicable Service Manual.
5. Due to the variance in sizes of pinion shafts on twin-cam flywheels, you may need to size the pinion shaft bushing. Hone I.D. of bushing to match shaft O.D. +.001 (+/- .0005).

Caution!

Do not install the pipe plug into the cam plate if the boss is present in the crankcase. If a pipe plug is installed with boss and O-ring present in crankcase, when the cam plate is installed and tightened the crankcase/cam plate will be damaged.

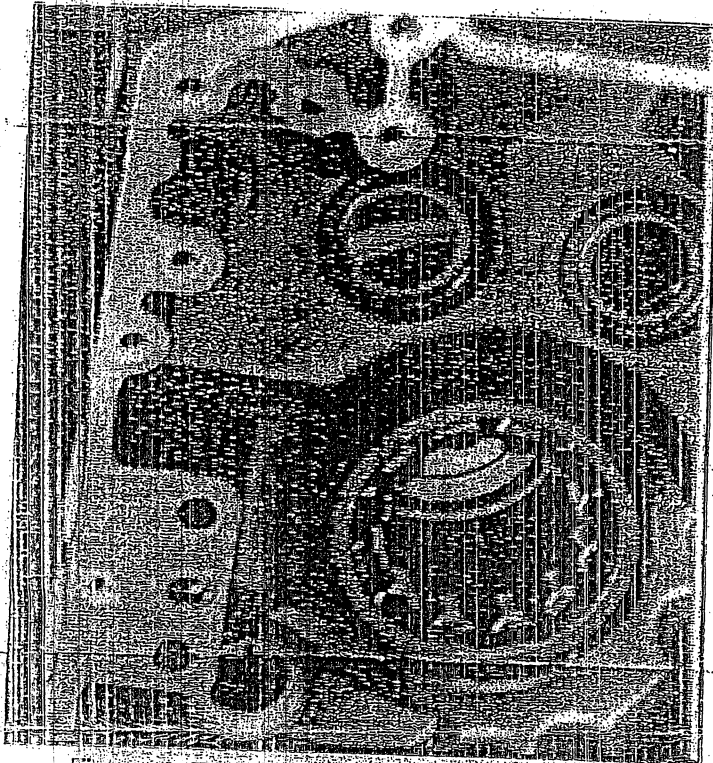


Figure-1, Right Crankcase Half (without boss)

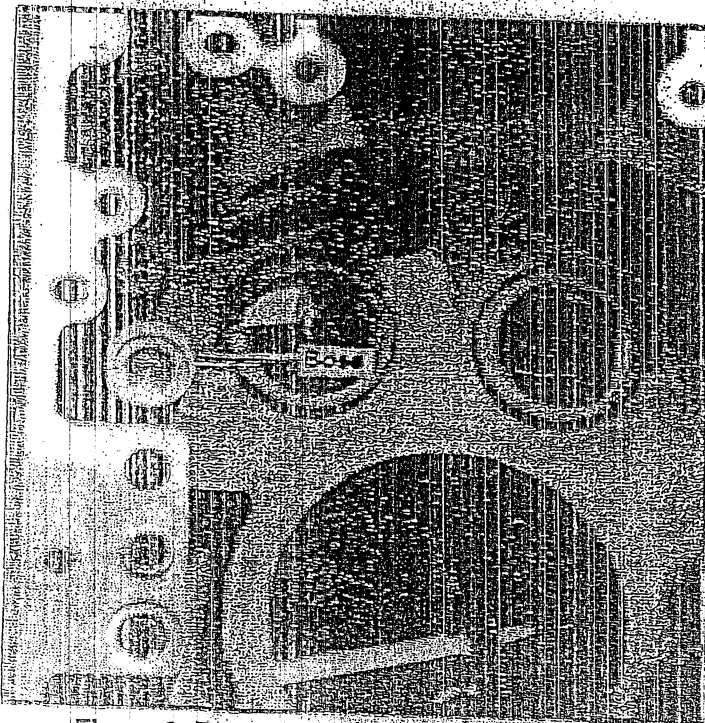


Figure-2, Right Crankcase Half (with boss)

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5. When using the Delkron Cam Support Plate as shown in Figure 3, and the boss is not present on the crankcase as shown in Figure 1, Proceed as follows:

- a. See Figures 3 and 4. Install NPT plug into proper hole of the cam support plate, as shown. Use LOCKTITE THREADLOCKER 242 (blue) and torque screw to 55 - 60 in-lbs.
- b. Install cam support plate using the procedures from the applicable Service Manual.

6. Reconnect the negative battery cable.

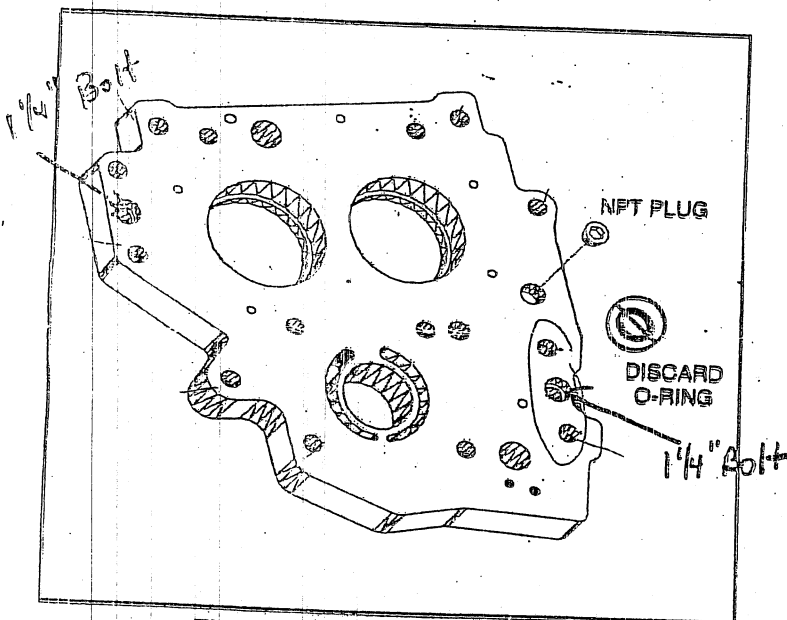


Figure-3, Cam Support Plate
(Discard O-ring & Install NPT plug in location shown for use with case pictured in figure #1)

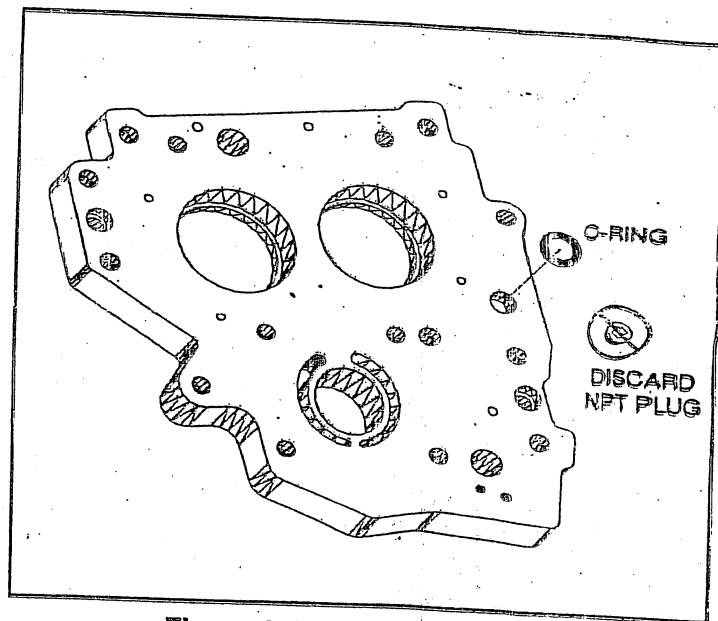


Figure-4, Cam Support Plate
(Discard NPT plug & install O-ring in crankcase boss for use with case pictured in figure #2)

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