

# SERVICE BULLETIN



M-991

MARCH 30, 1990

## 1340 CLUTCH INFORMATION FOR 1990 MODELS

### Purpose

The purpose of this Bulletin is to inform you of the following two production changes made on late 1990 1340 cc models and a modification that may increase clutch release bearing life on some vehicles:

#### ONE-PIECE CLUTCH ADJUSTING SCREW

See Figure 1. The left push rod end, Part No. 37090-84 and adjusting screw, Part No. 37357-84 have been replaced by a single item Part No. 37090-84A. This change reduces the possibility of clutch drag by decreasing any tendency for the clutch pressure plate to tip. This change was made to production vehicles in December, 1989.

#### CLUTCH RELEASE RAMPS

See Figure 1, View B. Beginning March 28, 1990, transmission number 90057042, clutch release ramps, Part No. 25452-87A (inner) and 25453-87 (outer) will be used in production. These ramps will provide more movement (lift) to the push rod to further reduce the possibility of clutch drag. This change will slightly increase clutch lever effort.

#### CLUTCH LEVER ANTI-RATTLE SPRING

See Figure 1, View A. During the installation of the one-piece adjusting screw and earlier release ramps, remove the anti-rattle spring (10) and its' retaining screw (11). The spring may affect free-play in the clutch lever and could cause the clutch throw-out bearing to be slightly loaded. That loading could cause premature failure of the throw-out bearing.

### Procedure

If customers of early 1990 1340 cc models complain of difficulty finding neutral, verify proper clutch adjustment at the adjusting screw and correct Primary Chaincase Lubricant level ( to outside diameter of diaphragm spring). If clutch adjustment and lubricant level are correct, install the one-piece adjusting screw, earlier release ramps and remove clutch lever anti-rattle spring and screw. Also, install the one-piece adjusting screw, earlier release ramps and remove clutch lever anti-rattle spring and

screw on all early 1990 1340 cc models that have a clutch release bearing/push rod failure.

### Installing One-Piece Adjusting Screw, Part No. 37090-84A

1. Loosen clutch cable and remove the clutch inspection cover.
2. See Figure 2. Loosen locknut (2) and unthread adjuster screw (3) from release plate (5).

#### NOTE

*If the one-piece push rod, Part No. 37090-84A, is already installed, skip steps 3. and 4 and install the clutch release ramps.*

3. See Figure 1. With a magnet, remove the left push rod end (1).
4. Install new one-piece adjusting screw into release plate and install locknut (2) on adjusting screw. DO NOT ADJUST PUSH ROD NOW, adjust after release ramps have been installed.

### Installing Clutch Release Ramps, Part No. 25452-87A (Inner) & 25453-87 (Outer)

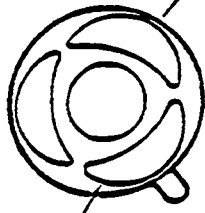
1. Refer to pages 7-30 and 7-31 in the 1985 TO 1990 FX/SOFTAIL MODELS Service Manual, Part No. 99482-90 for instruction on removing release ramps and installing the earlier ramps. See Figure 1, View B for identification of release ramps.
2. See Figure 1. After transmission side cover has been removed, remove the clutch release bearing and push rod assembly and center push rod (3). Install a new release bearing if excessive wear or overheating of bearing is evident. Also inspect the center push rod (3) for wear or damage. Install new push rod parts if required.

#### NOTE

*Completely drain and discard transmission lubricant if clutch release bearing /push rod must be replaced.*

ROUTING:	SERVICE MANAGER	SALES MANAGER	PARTS MANAGER	LEAD TECHNICIAN	TECHNICIAN NO. 1	TECHNICIAN NO. 2	TECHNICIAN NO. 3	TECHNICIAN NO. 4	RETURN THIS TO:
INITIAL HERE									

**15° Ramps**  
25452-90, inner  
25453-90, outer (shown)



Pockets (3)

**NOTE**  
Ends of pockets on 15° ramps almost touch. Side opposite pockets is marked "15°". 18° ramps have more space between ends of pockets and are not marked.

View B

**18° Ramps**  
25452-87A, inner  
25453-87, outer (shown)



View A

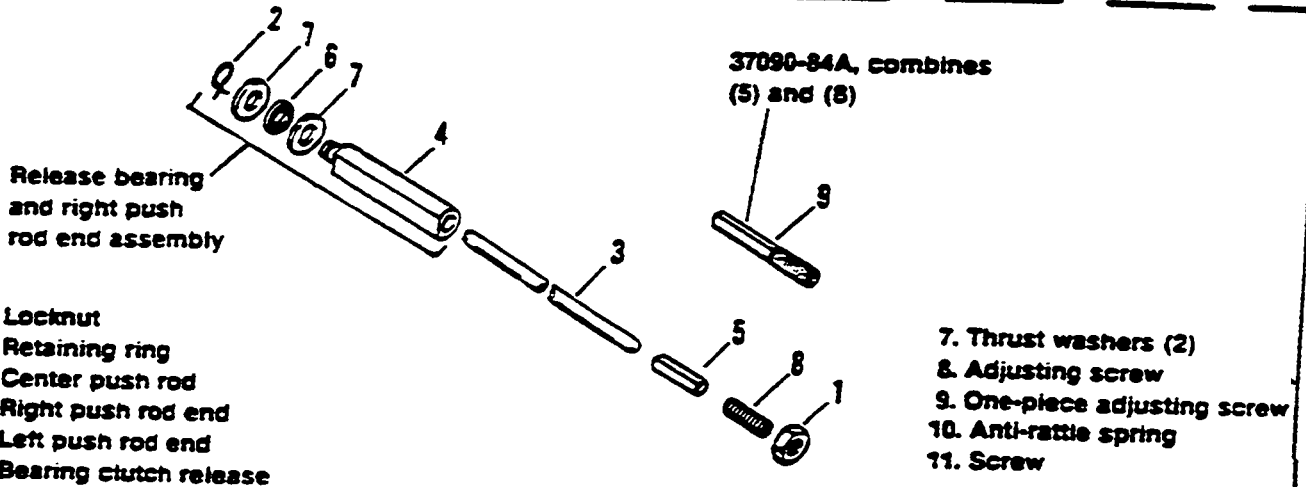
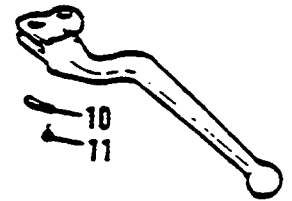


Figure 1. Clutch Release Components

3. See Figure 2. After transmission side cover has been installed, fill the transmission with lubricant to the full mark on dipstick with dipstick resting in place (not threaded into side cover). Adjust clutch push rod by lightly bottoming adjuster screw (3) and then backing screw out 1/2 - 3/4 turn. Hold screw with allen wrench and tighten locknut (2) to 6-10 ft-lbs torque.

**NOTE**

Adjust clutch cable free play at the clutch lever to 1/8-3/16 in. The same free play specification was used on 1989 models.

**WARRANTY PROCEDURE**

Upon completion of the service, submit a properly completed Warranty Claim Form using Labor Code 401E. Reference Service Bulletin M-991. You will be credited for parts along with 0.6 hour labor for each vehicle serviced.

If clutch release bearing/push rod was replaced you will be credited for one pint of Harley-Davidson TRANSMISSION LUBRICANT. M-991

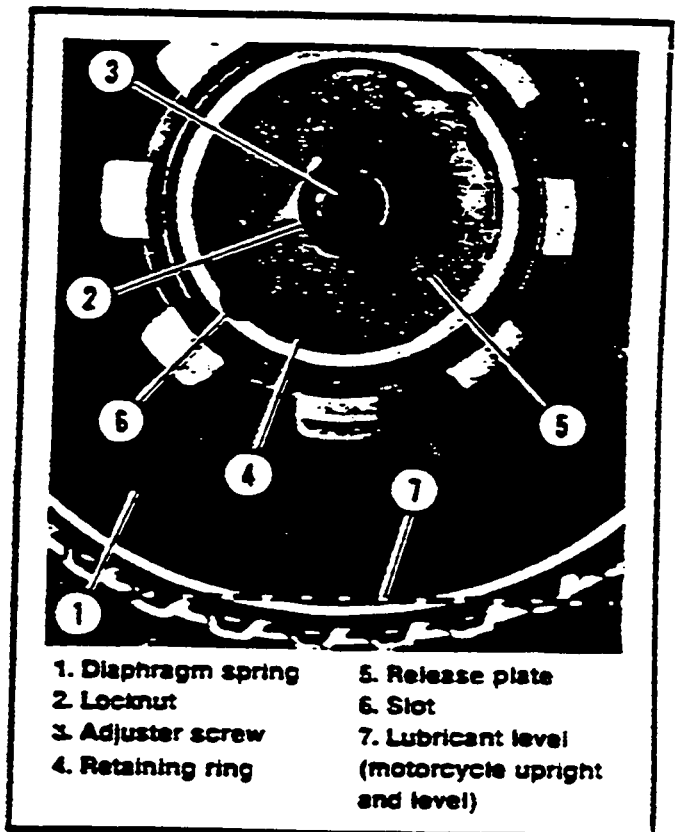


Figure 2. Push Rod Adjustment