



# INSTRUCTIONS

J02014

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## 45-AMP UPGRADE ALTERNATOR ROTOR KIT

### GENERAL

#### Kit Number

29999-97B

#### Models

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

#### NOTE

*This instruction sheet references Service Manual information. A Service Manual for your model motorcycle is required for this installation and is available from a Harley-Davidson Dealer.*

#### Kit Contents

Table 1. Kit Contents

Quantity	Description	Part Number
1	Rotor assembly	29943-01
1	Gasket, primary cover, FLT's	34901-94A

#### ⚠ 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)

#### ⚠ WARNING

To prevent accidental vehicle start-up, which could cause death or serious injury, disconnect battery cables (negative (-) cable first) before proceeding. (00307a)

#### ⚠ WARNING

Disconnect negative (-) battery cable first. If positive (+) cable should contact ground with negative (-) cable connected, the resulting sparks can cause a battery explosion, which could result in death or serious injury. (00049a)

### EXISTING ROTOR REMOVAL

1. Remove seat and disconnect battery terminals, negative cable first.
2. See the Service Manual. Remove the primary chaincase cover. Remove the clutch, primary chain, compensating sprocket and shaft extension as a single assembly.
3. Remove the alternator rotor spacer, if present.

### INSTALLATION

#### ⚠ CAUTION

The high-output rotor contains powerful magnets. Exercise caution to prevent possible hand injury during removal and installation. (00558b)

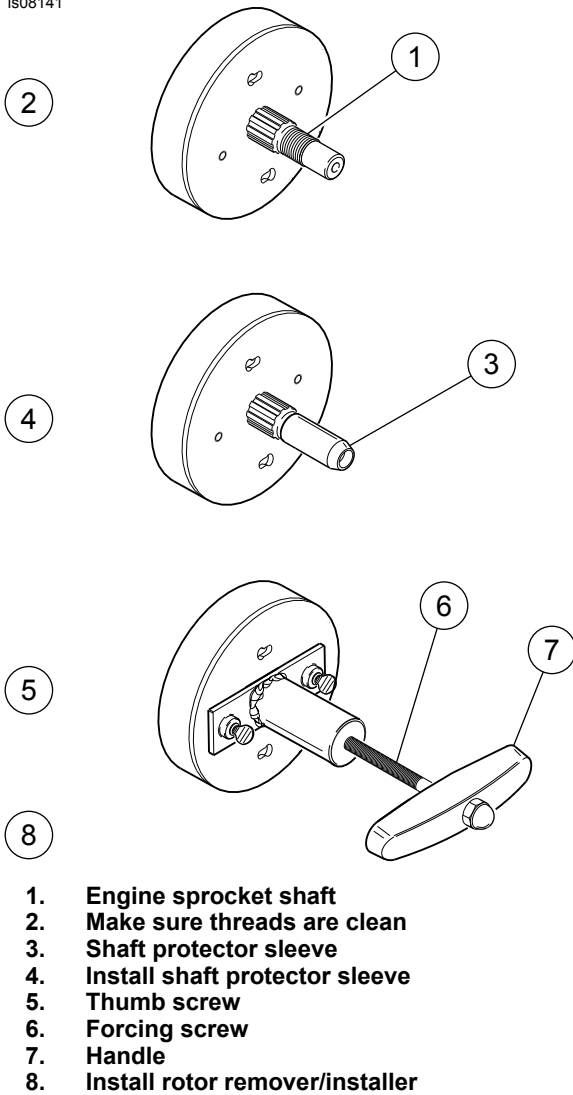
1. See Figure 1. Verify threads are clean and thread the Shaft Protector and Rotor Remover/Installer, if removed.

#### NOTE

*The Shaft Protector Sleeve not only protects the threads from the splines of the rotor, but acts as a guide to verify that the rotor is properly centered.*

2. Turn thumbscrews of Rotor Remover/Installer into threaded holes in rotor face.





**Figure 1. Install Shaft Protector and Rotor Installer**

3. Center ball on forcing screw in recess at end of engine sprocket shaft. Rotate the handle of the tool in a counterclockwise direction to ease rotor into position over stator.
4. Loosen thumbscrews and remove Rotor Remover/Installer. Remove Shaft Protector Sleeve.
5. Install the shaft extension on engine sprocket shaft. No alternator rotor spacer is necessary).
6. Follow instructions in applicable Service Manual and install the clutch assembly, primary chain and shaft extension as a single assembly.
7. Apply two drops of Red LOCTITE® 262 to threads of clutch nut and engine sprocket nut. Tighten nuts as follows:
  - a. Clutch nut-(left hand threads), 70-80 ft-lbs (94.9-105.5 Nm)
  - b. Engine sprocket nut- 150-165 ft-lbs (203-223 Nm).

8. See the Service Manual. Install the Primary Chaincase Cover using new gasket from kit, if necessary.
9. See the Service Manual. Adjust primary chain tension and clutch freeplay.
10. Fill primary chaincase with lubricant until level reaches the bottom edge of the clutch plates.

**▲ WARNING**

**Connect positive (+) battery cable first. If positive (+) cable should contact ground with negative (-) cable connected, the resulting sparks can cause a battery explosion, which could result in death or serious injury. (00068a)**

11. Connect the battery cables, positive cable first.

**▲ 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)**

12. See the Service Manual. Install the seat.
13. Start engine and perform load test procedure given in Service Manual to verify correct alternator operation.