

Installation Instructions

18SP532—Install Follower Spring and Retainer Kit 23528939 on Series 50 or Series 60 Fuel Injector

Introduction

Follower spring and retainer kit 23528939 is intended for installation on a Series 50® or Series 60® engine fuel injector. This kit consists of the items listed in Table 1.

Item No.	Part Number	Qty.	Description
1	F 00H N37 470	1	Spring, Follower
2	F 00H N37 482	1	Retainer, Follower
3	5235586	2	Screw, Follower Retainer

Table 1. Components of Kit 23528939

Installation

The follower spring and retainer can be installed without removing the fuel injector from the cylinder head. Install kit components as follows:



CAUTION:

To avoid injury from accidental engine start-up while servicing the engine, disconnect/disable the starting system.

1. With the engine at ambient temperature (cool to the touch) and the starting system disconnected/disabled, refer to the *Series 50 Service Manual* (6SE50) or the *Series 60 Service Manual* (6SE483) and remove the engine rocker cover. Remove the rocker arm shaft assembly and place on a clean cloth or paper towels to avoid contamination or damage.

NOTICE:

DDC recommends replacing one spring at a time to avoid mixing injector plungers. Each plunger is matched to its individual body and is not interchangeable with another plunger. Mixing plungers and bodies may lead to injector seizure.

2. Using a 5 mm hex head driver, remove the two injector follower retainer screws. Discard screws and follower retainer.

NOTICE:

Use extra care when handling the plunger, since any damage to the surface of the plunger could lead to injector seizure and/or oil dilution caused by a leaky injector.

3. Carefully lift the follower from the injector by pulling straight up. The plunger will be loosely attached to the follower. See Figure 1.
4. Remove the plunger from the follower and place on a clean cloth or paper towel to avoid damage.
5. Remove the follower spring from the injector and install the new spring.

NOTE:

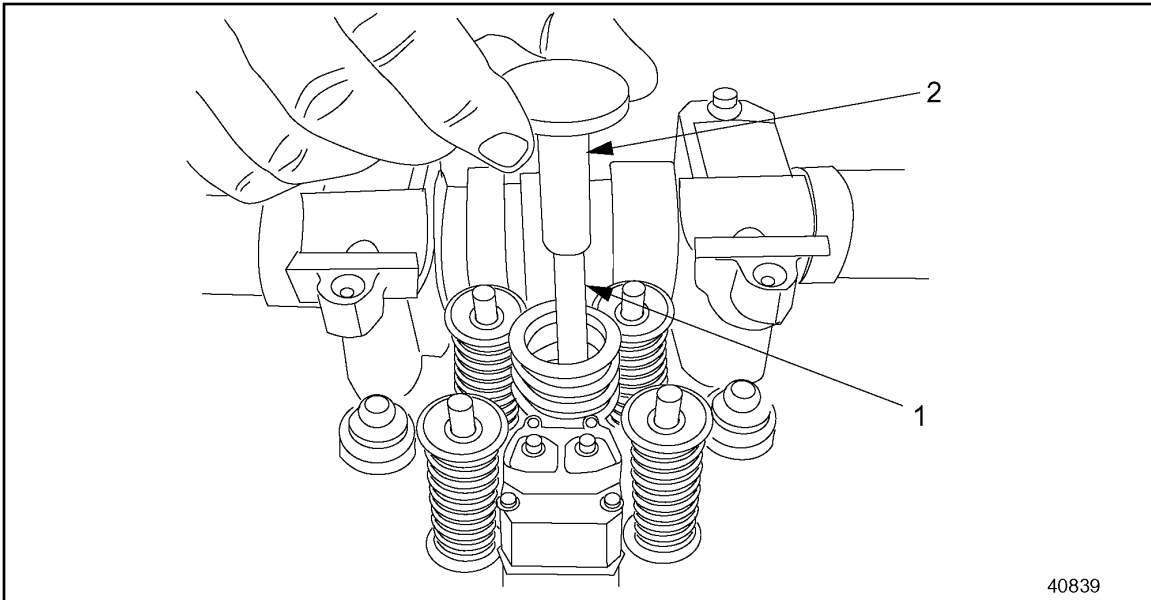
The new spring is 11mm longer than the former spring, and the new follower retainer is also longer. Former follower retainers and springs are not interchangeable with the new components and must be discarded.

6. Wash the plunger carefully with clean diesel fuel, WD-40®, or an alcohol-base cleaner. The plunger must be thoroughly clean to eliminate any contamination that could lead to injector seizure. Clean the follower, as well.
7. Lubricate the plunger with clean diesel fuel, reattach it to the follower and carefully install into the injector. See Figure 2.
8. Using the screws provided in the kit, install the new follower retainer onto the injector. Torque screws 2.5 - 2.8 N•m (22.0 - 25.0 lb-in).
9. Refer to the service manual and install the rocker arm shaft assembly and rocker cover. Complete engine reassembly.

NOTE:

The new follower clip is longer and will interfere with the Pacbrake® socket-head screw used to retain the slave piston bridge. A service kit has been developed by Pacbrake to eliminate this interference. Consult your Pacbrake dealer for this kit.

10. Reconnect starting power, start the engine and check for proper operation.

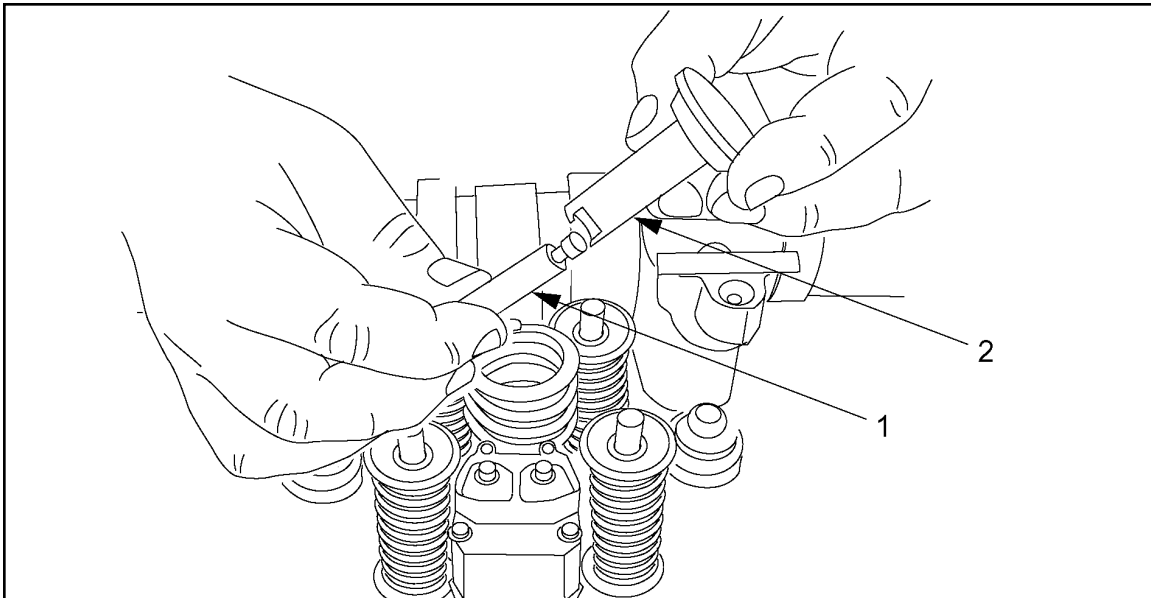


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1. Plunger

2. Follower

Figure 1. Lift Follower from Injector



1. Plunger

2. Follower

Figure 2. Attach Plunger to Follower

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