



## Service Parts Topics

Date  
November, 1999 T805

No.  
99T5-27

File Group: Engine Family  
5 B C

Subject

### Vertical Fuel Shutdown Solenoid Kits

T & R Manual      Shop Manual      O & M Manual      A R Manual      Specs Manual      Other

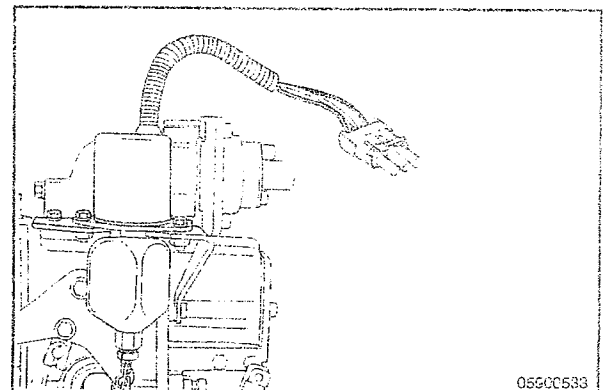
Manuals Affected by This Service Parts Topic		
	Bulletin No.	Manual Title
Shop Manual	3666017	B Series - Applicable To Engines Built During 1991 and Beyond
	3666008	C Series - Applicable To Engines Built In 1991 and After
Troubleshooting and Repair Manual	3666087	B Series - Applicable To Engines Built During 1991 and Beyond
	3666003	C Series - Applicable To Engines Built In 1991 and After
Operation and Maintenance Manual	3810205	Operation and Maintenance Manual Auto, Recreation Vehicle, Bus, and Industrial B3.9 and B5.9 Series Engine
	3810248	Operation and Maintenance Manual, C Series Engine

This service parts topic provides installation instructions for the new vertical fuel shutdown solenoid kits. The kits are used on mechanical B and C Series engines that are equipped with a P Series fuel pump and an RQVK fuel pump governor. The solenoids used in these kits are larger than previous solenoids and will **not** fit on Freightliner vehicles equipped with custom bodies (for example, Oshkosh and Utilimaster). If an interference issue is encountered when attempting to install one of these kits on other OEM equipment, please reference Service Parts Topic 99T5-28, for an alternative solenoid kit option.

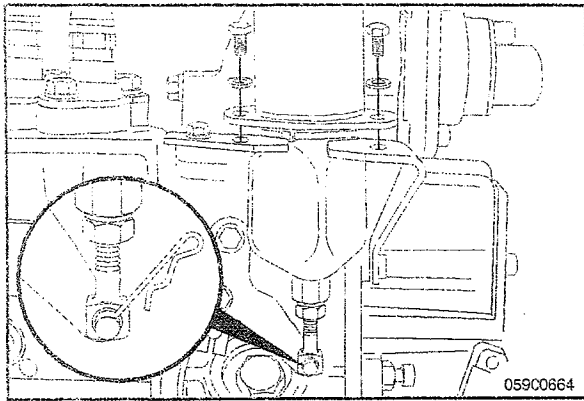
New Vertical Fuel Shutdown Solenoid Kits		
Application	VDC	Kit Part No.
Ford	12	3800675
Ford	24	3800676
Bluebird	12	3800777
Bluebird	24	3800778
General	12	3800677
General	24	3800678

### Preparatory (005-043-000)

Disconnect the fuel shutdown solenoid electrical connector.



05500533

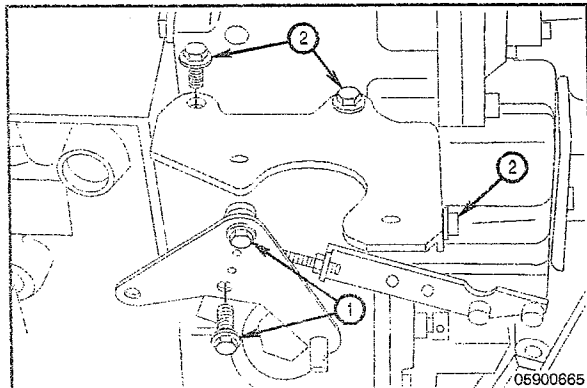


Remove (005-043-002)

10 mm

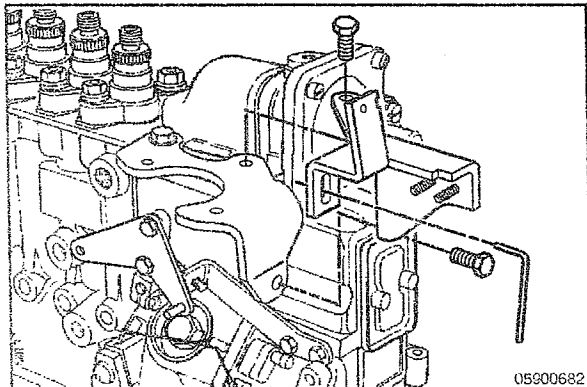


Remove the two hold-down cap screws and the clip pin.  
Remove the fuel shutdown solenoid assembly.

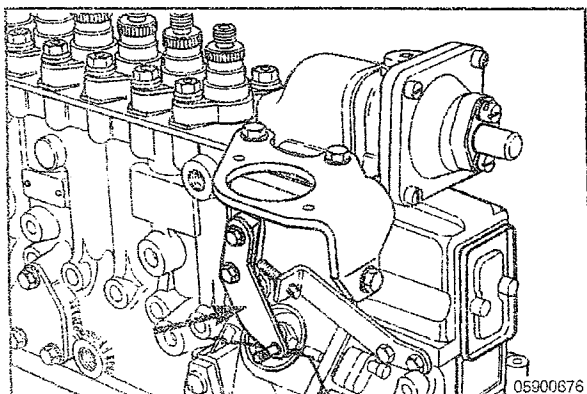


Remove the solenoid bracket cap screws (2), and discard the bracket.

**NOTE:** For Bluebird applications **only**, remove the shutdown lever bracket cap screws (1), and discard the bracket.



**NOTE:** For Ford applications **only**, disconnect the throttle return spring, and remove the hold-down bracket.



Install (005-043-026)

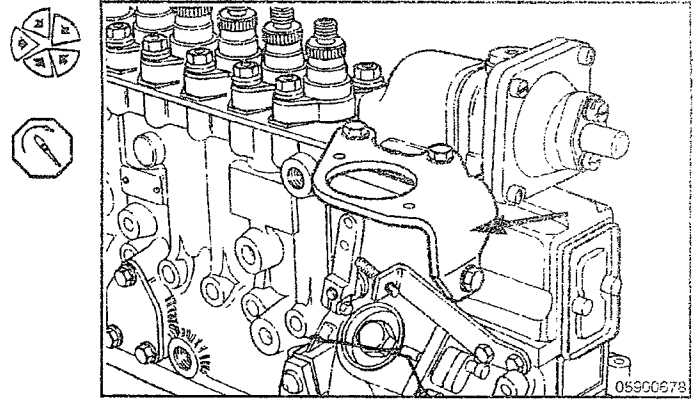
**NOTE:** For Bluebird applications **only**, use the following procedures.

Install the shutdown lever, Part No. 3937411, using two 25-mm Capscrews, Part No. 3936684, with two lock washers, Part No. S-600. Use a washer, Part No. 3934022, and a locknut, Part No. 3910959, on the top hole **only**.

**Torque Value:** 7 N•m [62 in-lb]

Install the solenoid bracket, Part No. 3937413, using two 25-mm capscrews, Part No. 3936684, on the top and one 55-mm capscrew, Part No. 3937434, on the bottom, (Be sure that the lock washers, Part No. S-600, are used with the capscrews).

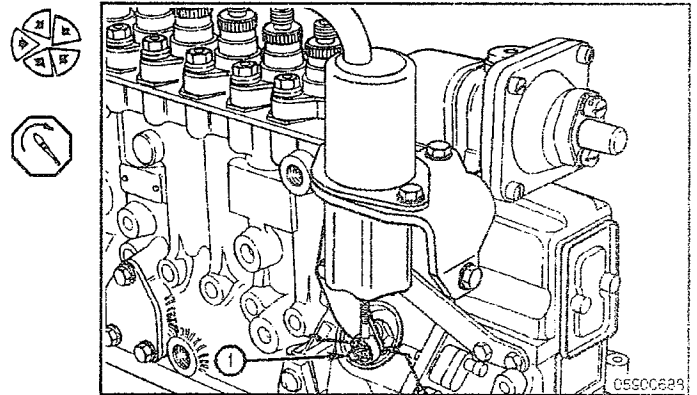
**Torque Value:** 7 N•m [62 in-lb]



Install the solenoid on the bracket using two 25-mm Capscrews, Part No. 3936684, with two lock washers, Part No. S-600.

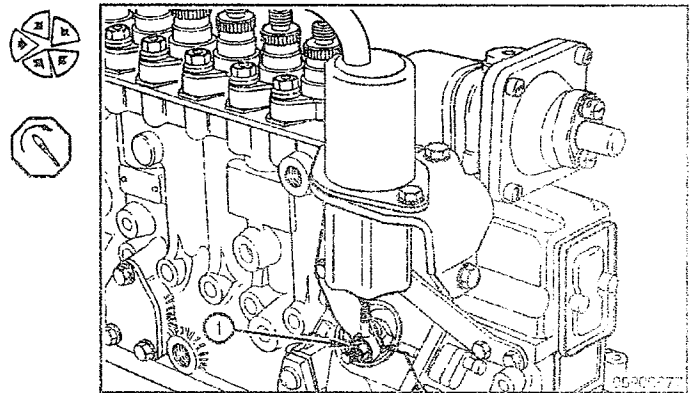
**Torque Value:** 9 N•m [80 in-lb]

Connect the rod end of the solenoid to the shutdown lever (1).



Install the locknut (1), Part No. 3910959, on the shutdown lever to hold the rod end of the solenoid in place.

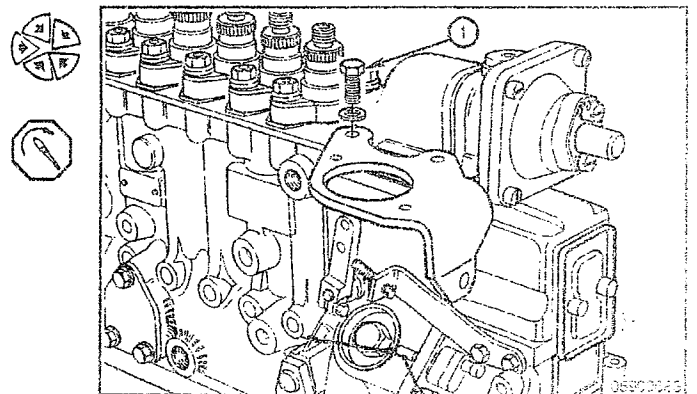
**Torque Value:** 9 N•m [80 in-lb]

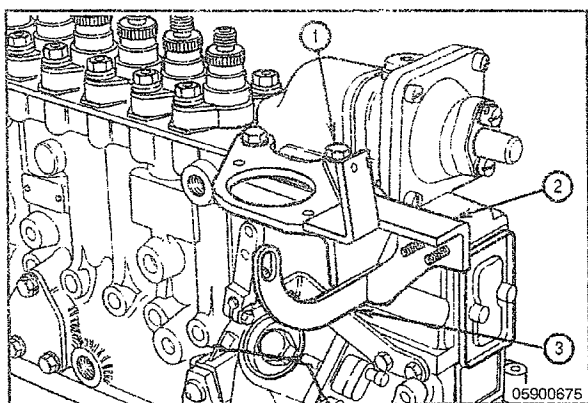


**NOTE:** For Ford applications **only**, use the following procedures.

Install the solenoid bracket, Part No. 3935653, using a 25-mm capscrew (1), Part No. 3936684, with a lock washer, Part No. S-600.

**Torque Value:** 7 N•m [62 in-lb]

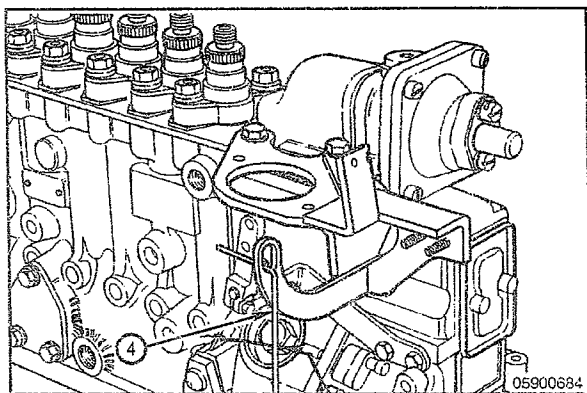




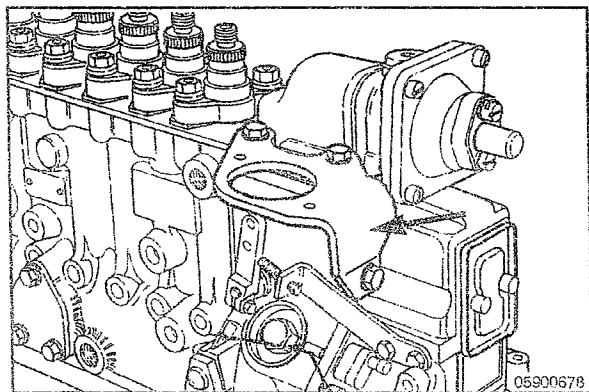
Install the bracket (2), Part No. 3935752, on the solenoid bracket using the 30-mm capscrew (1), Part No. 3936685. Use the 45-mm capscrew (3), Part No. 3901937, to secure the bottom of the bracket. Be sure to use the lock washers, Part No. S-600.



**Torque Value:** 7 N•m [62 in-lb]



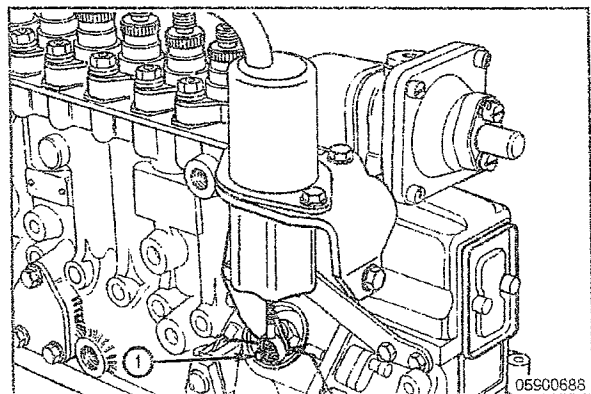
Install the throttle return spring (4).



**NOTE:** For all applications other than Ford or Bluebird, use the following procedure.

Install the solenoid bracket, Part No. 3935653, using two 25-mm capscrews, Part No. 3936684, with lock washers, Part No. S-600 on top. Use the 30-mm capscrew, Part No. 3936685, with a lock washer, Part No. S-600, to secure the bottom of the solenoid bracket.

**Torque Value:** 7 N•m [62 in-lb]



**NOTE:** For Ford and non-Bluebird applications, use the following procedure.

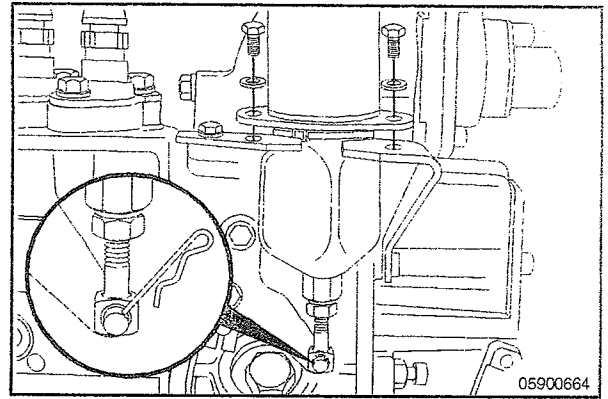
Install the solenoid on the bracket using the 16-mm capscrews, Part No. 3936683.

**Torque Value:** 9 N•m [80 in-lb]

Connect the rod end of the solenoid to the shutdown lever (1).

**NOTE:** For Ford and non-Bluebird applications, use the following procedure.

Install the clip pin.



**NOTE:** All applications follow this procedure.

Connect the solenoid wiring harness to the engine wiring harness. Secure both harnesses with tie-straps.

**NOTE:** The solenoid linkage rod is factory set to the proper length. There is no need for adjustment.

