

APTB 09/16

SUBJECT: 6.4L Power Stroke®/MaxxForce® 7 High-Pressure Fuel Pump Connectors

July 11, 2016

When servicing a high-pressure fuel pump or high-pressure fuel pump cover gasket on a 6.4L Power Stroke/MaxxForce 7 engine, there are two critical steps regarding the volume (VCV) and pressure (PCV) control valve connectors that must be followed.

Rubber Connector Spacer

Early production pumps were equipped with rubber connector spacers in the cavity of the VCV and PCV connectors, see images below. These spacers must be removed and discarded prior to plugging in the harness connectors. If these spacers are not removed the harness connectors may not lock in place properly, resulting in possible fault codes and low power concerns.



Connector with Spacer Installed



Connector with Spacer Removed

Harness Connector Tie Straps

Two tie straps are supplied with all high-pressure fuel pump installation kits. These tie straps must be installed on the VCV and PCV harness connectors prior to reinstalling the high-pressure fuel pump cover. The purpose of these tie straps is to keep the harness connectors locked in place. It is an indication that the harness connector is not fully engaged and locked if the tie strap cannot be inserted through the harness connector slot, see images below.



**Connector Not Fully Engaged/
Locked**



**Connector Locked with Tie Strap
Inserted**



**Connector Locked with Tie Strap
Secured**