



No.: 09 TL-5
June 12, 2009

TO: Service Locations

FROM: Technical Support Development

SUBJECT: **DD13™ Essential Tools**

NOTE: This document supersedes 08 TL-22Rev.

GENERAL INFORMATION

The initial DD13 Essential tool release is now complete. The final two tools, W470589044000 Rocker Shaft Lifter Intake and W470589074000 Rocker Shaft Lifter Exhaust were shipped to your facility in mid-May.

The table below shows all of the DD13 essential tools that are part of the initial release and their corresponding shipment dates. Shipments started in January 2009 and all essential tools should have arrived at your facility no later than early June 2009.

See Table 1 for a release of essential tools that support the DD13 engine.

Tool	Description	Use	Shipment
J-47407-128UPD	15mm Adaptor/Cylinder Liner Installer	Major Repair	January 2009
J-49373	Puller Main Cap Bearing	Major Repair	January 2009
W470589003700	EGR Cooler Leak Tester	Repair	January 2009
W470589005900	Piston Ring Compressor	Major Repair	February 2009
W470589009800	DD13/DD15 Cam Gear Cover	Repair	January 2009
W470589016100	Cylinder Head Guide Studs	Major Repair	January 2009
W470589034000	Camshaft Timing tool (TDC)	Repair	February 2009
W470589044000	Rocker Shaft Lifter Intake	Repair	June 2009
W470589074000	Rocker Shaft Lifter Exhaust	Repair	June 2009

Table 1. Essential Tools for DD13 Engine

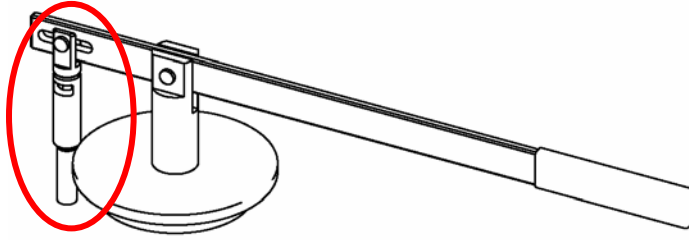


Figure 1. J-47407-128UPD – Cylinder Liner Installer

J-47407-128UPD is an update to the existing DD15 tool J-47407. This takes the place of the existing threads to thread into the 15mm bolt holes to install the cylinder liners.

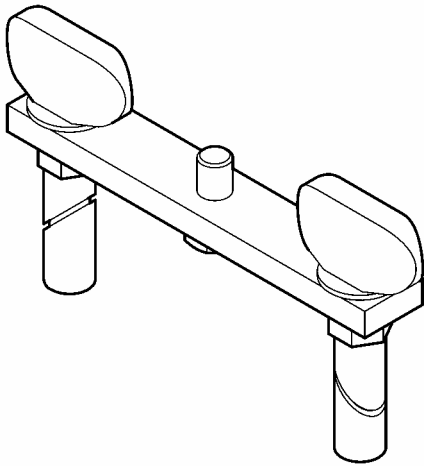


Figure 2. J-49373 - Puller Main Cap Bearing

J-49373 removes the main bearing caps.

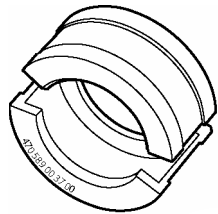


Figure 3. W470589003700 – EGR Cooler Leak Tester

W470589003700 is one new component to add to your existing DD15 EGR leak tester. This capture block will be used on the outlet of the cooler.

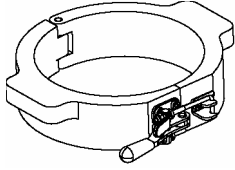


Figure 4. W470589005900 – Piston Ring Compressor

W470589005900 compresses the piston rings while loading the piston and connecting rod assembly into the liner.

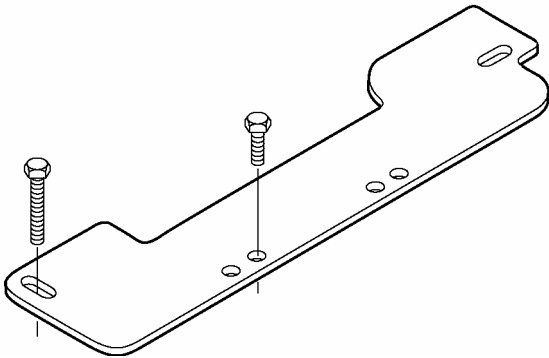
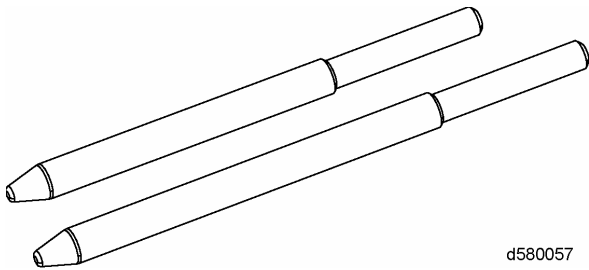


Figure 5. W470589009800 – DD13/DD15 Cam Gear Cover

W470589009800 covers the cam gears at the rear of the engine and allows the engine to be run with the rocker cover removed.



d580057

Figure 6. W470589016100 – Cylinder Head Guide Studs

W470589016100 are used when installing the cylinder head to the block. This keeps the cylinder head inline with the block to prevent damage to the head gasket.

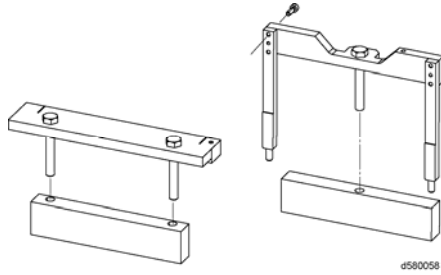


Figure 7. W470589034000 – Camshaft Timing Tool (TDC)

W470589034000 is used for installing the cams into the cam frame and holding the installed cams and gear train in time as the #1 Idler is installed. It can also be used for checking cam timing during diagnostics. The spacer blocks are required on 2009 engines.

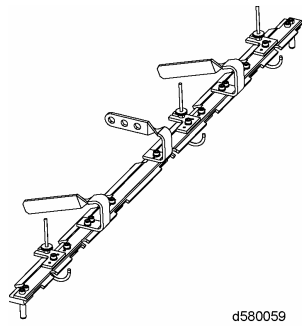


Figure 8. W470589044000 – Rocker Arm Lifter/Spacer Intake

W470589044000 is the intake rocker shaft removal and installation device. It holds the rocker arms in the correct location so they can be installed without interference with the cam frame stands. This uses three special hooks to secure the lifter to the rocker arm. Intake rocker arm lifter is identified with “I” on the tool.

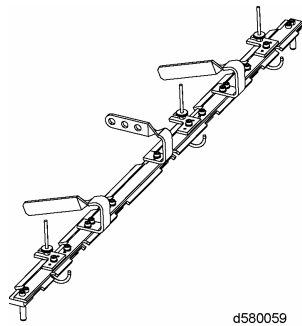


Figure 9. W470589074000 – Rocker Arm Lifter/Spacer Exhaust

W470589074000 is the exhaust rocker shaft removal and installation device. It holds the rocker arms in the correct location so they can be installed without interference with the cam frame stands. This tool uses three special hooks that are flat on each side to hook the lifter to the rocker arm. Exhaust rocker arm lifter is identified with an “E” on the tool.

ADDITIONAL INFORMATION

Tools will be packaged together in lot shipments, generically addressed to the service manager at each facility. Some tools on the list may not be included in the initial shipment; they are identified on Table 1. Remaining tools will be shipped out as they become available. Order status can be checked on the DD13 website.

If there are any questions or concerns about the usage of these tools, call the customer support center immediately. Do not attempt to modify these tools in any way; doing so may result in damage to the tool or damage to the engine.

CONTACT INFORMATION

Please contact the Detroit Diesel Customer Support Center at 313-592-5800 or email csc@detroitdiesel.com if you have any questions.