





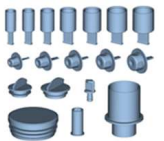



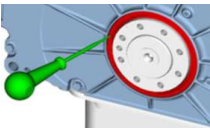
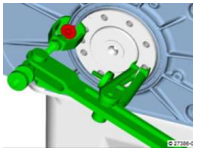





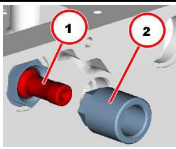


7.8L Tier 4 Final Special Tool List



● Blue denotes Competency Class Level II special tooling.

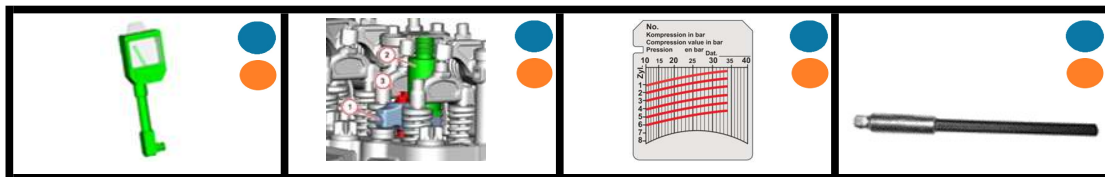


● Gold denotes Competency Class Level III only tools.

 2992127 Disassembly Tool	 2992301 Separating Tool	 1899368 Locking Plugs / Caps	 2992477 Special Wrench (Fuel Line)
 1899092 Hexalobular Tool Kit	 2992117 Lever Tool (Injector Clamp)	 1899103 Pick	 1899110 Assembly Lever
 1899132 Socket 27MM (Fuel Pres. Sensor)	 1899400 Crankcase Pressure Testing Device	 1899108 Disassembly Tool (M8 Stud Remover)	 1899148 Assembly Tool (M8 Stud Installer)
 2992294 Slide Hammer	 2992118 Socket (Fuel Nozzel Union)	 1899099 13 mm Open End Adapter	 1899061 E20 Hex Deep Socket



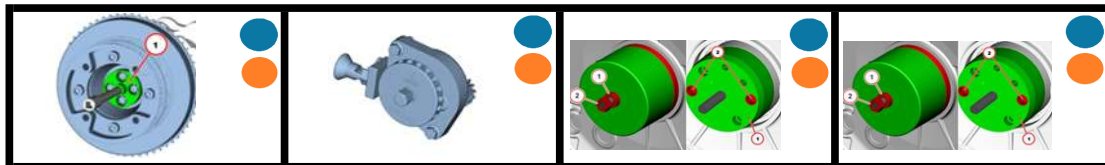
7.8L Tier 4 Final Special Tool List



1899034 2992018 1899193 1899185
Compression Gauge Connection Piece Compression Chart Torque Handle Insert
(With Adapter) (Comp. Gauge) Sheets



1899415 1899112 1899037 2992345
Cooling System Spring Band Pliers Hose clip pliers NOX Sensor Wrench
Pressure Tester (Cobra Clamps)



2992033 2992465 2992238 2992239
Turning Gear Turning Gear Crank seal Crank Seal
 Locking Device (Flywheel Side) (Front Cover)



1899106 1899150 1899426 2992137
M12 Threaded Stud M12 Threaded Stud SCR Test Set Sealing Disc
Removal Tool Installation Tool (2.9L) Extraction Device



2992126 1899050 1899105 1899149
Assembly Sleeves & Assembly Pliers M10 Threaded Stud M10 Threaded Stud
Guide Kit Removal Tool Installation Tool


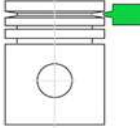

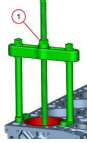
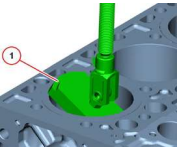
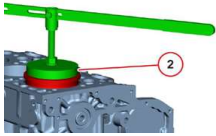


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2992350 Injector Sleeve Tool (15pc kit)	2992358 Injector Sleeve Cleaner (9pc Kit)	1899093 Torque Angle Disc	1899097 4 mm Hex (Valve Clearance)
1899098 Alternator Shaft Spline Tool	1899136 ALT Pulley Socket Wrench 24MM	1899184 Torque Handle	1899054 Socket 22mm (Main Cap Bolts)
2992349 Special Pliers (Tappet Remover)	1899054 Socket 22 mm	2992485 Valve Stem Seal Assembly Tool	2992288 Liner Holder (Two Pieces)
2992172 Piston Ring Compressor	2992254 Camshaft Bearing Tool	2992155 Piston Ring Expander	2992168 Connecting Rod Assembly Tool
1899126 Dial Indicator	2992041 Piston Protrusion Measuring Device	2992143 Valve Spring Compressor	2992997 Cylinder Liner Holder



7.8L Tier 4 Final Special Tool List

			
1899060 E14 Hex Deep (Cylinder Head)	2992159 Ring Groove Wear (101mm Piston)	2992289 Cylinder Liner Assembly Lever	1899140 Cylinder Liner Remover
			
2992287 Cylinder Liner tension Plate	2992290 Cylinder Liner Pressure Plate		