

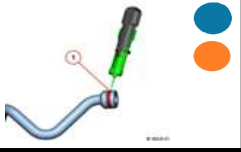





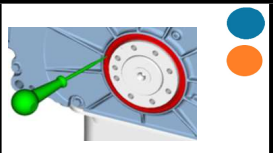
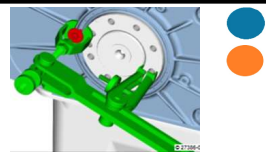




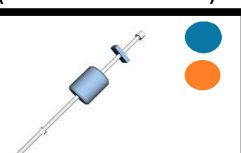
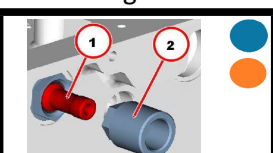
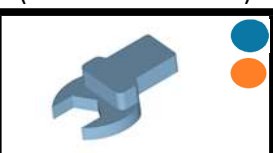



## 4.1L Tier 4 Final Special Tool List



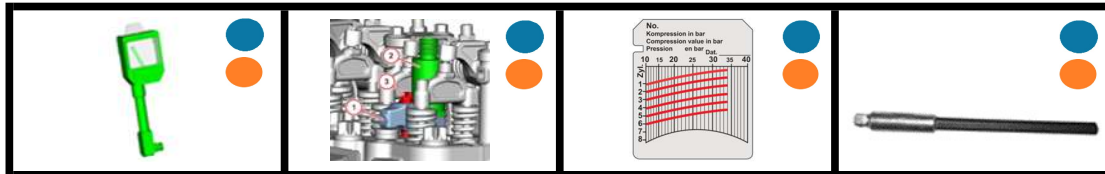
Blue denotes Competency Class Level II special tooling.

Gold denotes Competency Class Level III only tools.

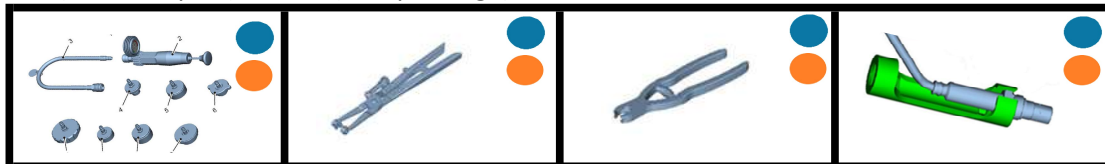
			
2992127	2992301	1899368	2992477
Disassembly Tool	Separating Tool	Locking Plugs / Caps	Special Wrench (Fuel Line)
			
1899092	2992117	1899103	1899110
Hexalobular Tool Kit	Lever Tool (Injector Clamp)	Pick	Assembly Lever
			
1899132	1899400	1899108	1899148
Socket 27MM (Fuel Pres. Sensor)	Crankcase Pressure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



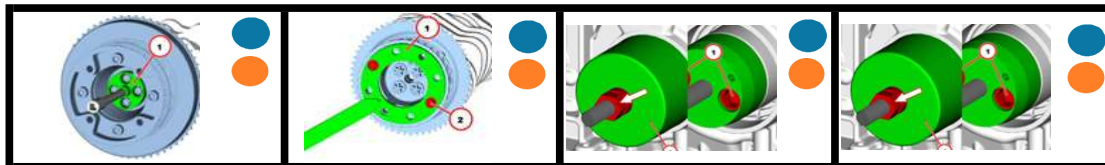
## 4.1L Tier 4 Final Special Tool List



1899034 Compression Gauge (With Adapter)	2992018 Connection Piece (Comp. Gauge)	1899193 Compression Chart Sheets	1899185 Torque Handle Insert
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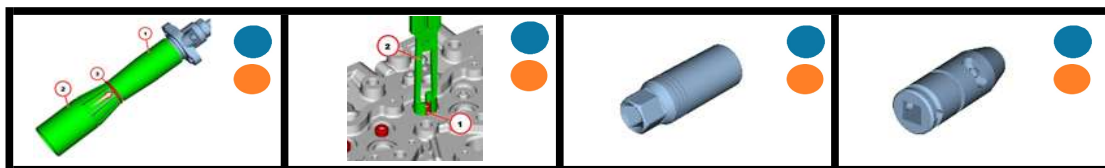
1899415 Cooling System Pressure Tester	1899112 Spring Band Pliers	1899037 Hose clip pliers (Cobra Clamps)	2992345 NOX Sensor Wrench
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2992028 Turning Gear	2992275 Pulley Holder	2992223 Crank Seal Ring Ass (Flywheel End)	2992213 Crank Seal Ring Ass (Opposite Flywheel)
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1899106 M12 Threaded Stud Removal Tool	1899150 M12 Threaded Stud Installation Tool	1899426 SCR Test Set (2.9L)	2992137 Sealing Disc Extraction Device
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2992126 Assembly Sleeves & Guide Kit	1899050 Assembly Pliers	1899105 M10 Threaded Stud Removal Tool	1899149 M10 Threaded Stud Installation Tool
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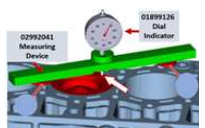
## 4.1L Tier 4 Final Special Tool List

2992350 Injector Sleeve Tool (15pc kit)	2992358 Injector Sleeve Cleaner (9pc Kit)	1899093 Torque Angle Disc	2992046 Guide Pins (Mass Bal. Shafts)
1899098 Alternator Shaft Spline Tool	1899136 ALT Pulley Socket Wrench 24MM	1899184 Torque Handle	2992143 Valve Spring Compressor
2992166 Ring Groove Wear (98 mm Piston)	2992165 Ring Groove Wear (101mm Piston)	1899060 E14 Hex Deep (Cylinder Head)	2992251 Camshaft Bearing Tool
2992349 Special Pliers (Tappet Remover)	1899054 Socket 22 mm	2992145 Valve Stem Seal Installer	1899187 Valve stem Seal Tool (Three Piece Set)
2992181 Piston Ring Comp. (101MM)	2992180 Piston Ring Compressor (98MM)	2992155 Piston Ring Expander	2992170 Connecting Rod Assembly Tool



## 4.1L Tier 4 Final Special Tool List

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1899126  
Dial Indicator

2992041  
Piston Protrusion  
Measuring Device