

ENGINES 112.945 in MODELS 463.209 /232 /233 /244 /245 /250
ENGINES 113.962 in MODELS 463.206 /240 /241 /247 /248 /249 /254
ENGINES 113.982 in MODELS 463.241 /243 /246
ENGINES 113.993 in MODELS 463.270 /271

1	Replace oil filter element, drain oil filter	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	AP18.00-P-0101-06GH *BA18.20-P-1001-01D *103589020900
2.1	Suction off engine oil	<input type="checkbox"/> Extract engine oil only when the engine is at normal operating temperature. <input type="checkbox"/>	AP18.00-P-0101-02Z *WH58.30-Z-1007-16A
2.2	Unscrew oil drain screw and drain engine oil	<input type="checkbox"/> Only drain engine oil when engine is at normal operating temperature. <input type="checkbox"/>	*117589020700
3	Screw in oil drain plug	<input type="checkbox"/> Replace sealing ring. <input type="checkbox"/>	*BA01.45-P-1003-01B
4 <input type="checkbox"/> <input type="checkbox"/>	Pour in engine oil Specified and approved quality grades and viscosity classes conforming to SAE at enduring low outside temperatures Notes concerning extension of the oil change interval Service Information: Engine oil change Specified engine oils (service) - survey Approved engine oils (service)	<input type="checkbox"/> Only use approved engine oils. All engines <input type="checkbox"/> Passenger cars engines	AH18.00-P-1000-01BA AH18.00-P-0102-01A *BF18.00-P-1001-01H SI18.00-P-0011A BB00.40-P-0223-01A BB00.40-P-0226A
<input type="checkbox"/> Danger! 5	Risk of accident caused by vehicle starting off by itself when engine is running. Risk of injury caused by contusions and burns during starting procedure or when working near engine Warm up engine to normal operating temperature and check for leaks	Secure vehicle to prevent it from moving. Wear closed and snug-fitting work clothes. Do not grasp hot or rotating parts.	AS00.00-Z-0005-01A
6	Turn off engine		
7	Check oil level approx. 2 min after switching off the engine	<input type="checkbox"/> Push in oil dipstick up to the all the way into the guide tube, wait for at least 3 seconds and then pull out again.	

Specified engine oil quality levels

Number	Designation		Engine 103, 104, 111, 112, 119, 120, 166	Engine 113.940/941/ 942/943/944/ 945/946/948/ 960/961/962/ 963/965/966/ 967/968/980/ 981/982/984/ 986/987/988/ 990/991/992/ 993
BE18.00-P-1001-03A	Specified engine oil quality levels	CCMC	G4 G5	G4 G5
		API	ECU	ECU

Oil pan

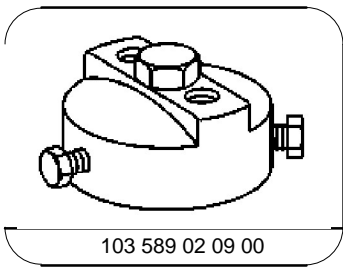
Number	Designation			Engines 112.910/911/ 912/913/914/ 915/917/920/ 921/922/923/ 940/941/942/ 943/944/945/ 946/947/949/ 951/954/955/ 960/961/970/ 972/973/976	Engines 113.940/941/ 942/943/944/ 945/946/960/ 961/962/963/ 965/967/968/ 969/980/981/ 982/984/986/ 992	Engine 113.993
BA01.45-P-1003-01B	Oil drain screw to oil pan	M14	Nm	30	30	30

Oil filter

Number	Designation			Engines 112.910/911/ 912/913/914/ 915/916/917/ 920/921/922/ 923/940/941/ 942/943/944/ 945/946/947/ 949/951/953/ 954/955/960/ 961/970/972/ 973/975	Engines 113.940/941/ 942/943/944/ 945/946/948/ 960/961/962/ 963/965/966/ 967/968/969/ 980/981/982/ 984/986	Engine 113.990/ 991/993
BA18.20-P-1001-01D	Screw cap at oil filter		Nm	25	25	25

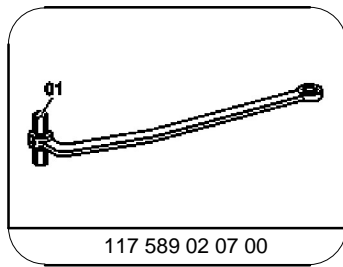
Engine lubrication

Number	Designation			Engine 112 except 112.916/953/975	Engines 113.940/941/ 942/943/960/ 961/962/969/ 982	Engine 113.987/988/ 990/992/993
BF18.00-P-1001-01H	Engine oil	Filling capacity with oil filter	Liters	8,0	8,0	8,5
		Filling capacity without oil filter	Liters	7,5	-	8,0
		Specifications for Operating Fluids	Sheet	BB00.40-P-0229-01A	BB00.40-P-0229-01A	BB00.40-P-0229-01A
	Sheet		BB00.40-P-0229-03A	BB00.40-P-0229-03A	BB00.40-P-0229-03A	
	Sheet		BB00.40-P-0229-05A	BB00.40-P-0229-05A	BB00.40-P-0229-05A	



103 589 02 09 00

Wrench socket



117 589 02 07 00

Box wrench

Commercially available tools (see Workshop Equipment Manual)

Number	Designation	Make (e. g.)	Order number
WH58.30-Z-1007-16A	Engine oil extractor	Deutsche Tecalect Am Metallwerk 11 33659 Bielefeld, Germany	1.386950.2