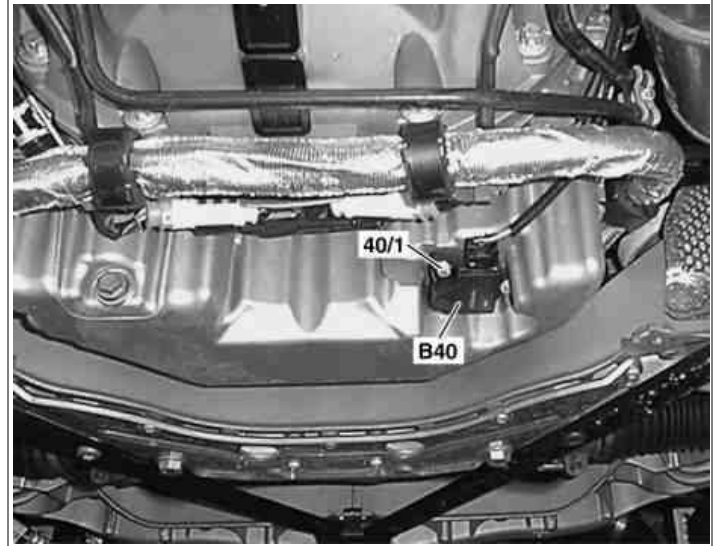


AR18.40-P-5112R	Remove/install oil sensor	4.12.06
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ENGINE 112.913 in MODEL 211.061 /261
ENGINE 112.949 in MODEL 211.065 /265
ENGINE 113.967 in MODEL 211.070 /270
ENGINE 113.963 in MODEL 230.475
ENGINE 113.992 in MODEL 230.474
ENGINE 113.990 in MODEL 211.076 /276
ENGINE 113.991 in MODEL 215.374, 220.074 /174
ENGINE 112.973 in MODEL 230.467
ENGINE 113.995 in MODEL 230.472

Illustrated on model 230.475

40/1 Bolt
B40 Oil sensor (oil level, temperature and quality)





















P18.40-2078-11

Modification notes

21.11.04	BT measure regarding oil drain screw - added	Step 2	BT01.45-P-7500-01R
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		Remove/install		
		Risk of death caused by vehicle slipping or toppling off the lifting platform.	Align vehicle between columns of vehicle lift and position four support plates at vehicle lift support points specified by vehicle manufacturer.	AS00.00-Z-0010-01A
1		Remove engine compartment paneling	Remove rear part only. Model 211 Model 215, 220 Model 230	AR61.20-P-1105T AR61.20-P-1105M AR61.20-P-1105R
2	BT	Drain and collect engine oil	Observe technical information since it could also come to leaks on the oil drain screw. Engine 113.990 from 1.3.04 in model 211.076/276 Engine 113.992 as of 1.3.04 in model 230.474 Engine 113.995 in model 230.472	BT01.45-P-7500-01R
	AP	Measure concerning oil drain screw	Engine 112.913/949 in model 211 Engine 112.973 in model 230 Engine 113.963 in model 230 Engine 113.967 in model 211	AP18.00-P-0101AE AP18.00-P-0101AF
	AP	Engine oil change and filter change	Engine 113.990 in model 211.076/276 ENGINE 113.992 in MODEL 230.474 Engine 113.995 in model 230.472 Engine 113.991 in model 220.074/174, 215.374	AP18.00-P-0101R
	AP	Engine oil change and filter change		
3		Remove oil sensor (oil level, temperature and quality) (B40)	Detach electrical plug on Oil sensor (oil level, temperature and quality) (B40) and remove bolts (40/1). Installation: Install new O-ring. Failure to do so can lead to leaks.	
4		Install in the reverse order		

	Checking		
5.1	Check engine oil level over the control system	Model 211 Model 215, 220, 230	AR54.30-P-1000-02OPT AR54.30-P-1000-02OPM
5.2	Check engine oil level using oil dipstick measurement	Engine 112.913/949 in model 211 Engine 112.973 in model 230     Engine 113.990 in model 211 AMG Engine 113.992 /995 in model 230 AMG     Engine 113.991 in model 215, 220 AMG     Engine 113.963 in model 230 Engine 113.967 in model 211     	AR18.00-P-3035-01A *BF18.00-P-1001-03B *BF18.00-P-1002-03B *BF18.00-P-1003-03B *BF18.00-P-1004-03B AR18.00-P-3035-01O *BF18.00-P-1001-03I *BF18.00-P-1002-03I *BF18.00-P-1003-03I *BF18.00-P-1004-03I AR18.00-P-3035-01DA *BF18.00-P-1001-03DA *BF18.00-P-1002-03DA *BF18.00-P-1003-03DA *BF18.00-P-1004-03DA AR18.00-P-3035-01CC *BF18.00-P-1001-03C *BF18.00-P-1002-03C *BF18.00-P-1003-03C *BF18.00-P-1004-03C

Oil level check

Number	Designation	Engine 112.912/913/946/ 949/955/973
BF18.00-P-1001-03B	Oil level	Maximum mm 171
		Minimum mm 151
BF18.00-P-1002-03B	Dipstick indication 140 mm to 168 mm (oil level too low)	140 mm Replenish oil quantity in liters +2.2
		142 mm Replenish oil quantity in liters +2.1
		144 mm Replenish oil quantity in liters +2.0
		146 mm Replenish oil quantity in liters +1.8
		148 mm Replenish oil quantity in liters +1.7
		150 mm Replenish oil quantity in liters +1.6
		152 mm Replenish oil quantity in liters +1.4
		154 mm Replenish oil quantity in liters +1.3
		156 mm Replenish oil quantity in liters +1.1
		158 mm Replenish oil quantity in liters +0.9
		160 mm Replenish oil quantity in liters +0.8
		162 mm Replenish oil quantity in liters +0.6

		164 mm	Replenish oil quantity in liters	+0.5
		166 mm	Replenish oil quantity in liters	+0.4
		168 mm	Replenish oil quantity in liters	+0.2
BF18.00-P-1003-03B	Oil dipstick indication 170 mm to 172 mm (oil level correct)	170 mm	Oil quantity in liters	0.0
		171 mm	Oil quantity in liters	0.0
		172 mm	Oil quantity in liters	0.0
BF18.00-P-1004-03B	Oil dipstick indication 174 mm to 182 mm (oil level too high)	174 mm	Extract oil quantity in liters	-0.2
		176 mm	Extract oil quantity in liters	-0.4
		178 mm	Extract oil quantity in liters	-0.5
		180 mm	Extract oil quantity in liters	-0.6
		182 mm	Extract oil quantity in liters	-0.7

Oil level check

Number	Designation		Engine 113.990/992/995	
BF18.00-P-1001-03I	Oil level	Maximum	mm	168
		Minimum	mm	137
BF18.00-P-1002-03I	Dipstick indication from 129 mm to 165 mm (oil level too low)	129 mm	Replenish oil quantity in liters	+2.5
		131 mm	Replenish oil quantity in liters	+2.4
		133 mm	Replenish oil quantity in liters	+2,3
		135 mm	Replenish oil quantity in liters	+2.1
		137 mm	Replenish oil quantity in liters	+2.0
		139 mm	Replenish oil quantity in liters	+1.8
		141 mm	Replenish oil quantity in liters	+1,7
		143 mm	Replenish oil quantity in liters	+1.6
		145 mm	Replenish oil quantity in liters	+1.4
		147 mm	Replenish oil quantity in liters	+1.3
		149 mm	Replenish oil quantity in liters	+1.2
		151 mm	Replenish oil quantity in liters	+1.0
		153 mm	Replenish oil quantity in liters	+0.9
		155 mm	Replenish oil quantity in liters	+0.8
		157 mm	Replenish oil quantity in liters	+0.7

		159 mm	Replenish oil quantity in liters	+0.6
		161 mm	Replenish oil quantity in liters	+0.5
		163 mm	Replenish oil quantity in liters	+0.3
		165 mm	Replenish oil quantity in liters	+0.2
BF18.00-P-1003-03I	Dipstick indication from 167 mm to 169 mm (oil level correct)	167 mm	Oil quantity in liters	0.0
		168 mm	Oil quantity in liters	0.0
		169 mm	Oil quantity in liters	0.0
BF18.00-P-1004-03I	Dipstick indication from 171 mm to 179 mm (oil level too low)	171 mm	Extract oil quantity in liters	-0.2
		173 mm	Extract oil quantity in liters	-0.3
		175 mm	Extract oil quantity in liters	-0.5
		177 mm	Extract oil quantity in liters	-0.6
		179 mm	Extract oil quantity in liters	-0.7

Oil level check

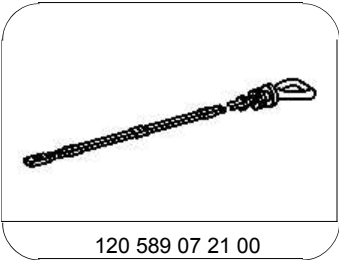
Number	Designation	Engine 113.991 in model 215, 220		
BF18.00-P-1001-03DA	Oil level	Maximum	mm	110
		Minimum	mm	95
BF18.00-P-1002-03DA	Oil dipstick indication from 83 mm to 107 mm (oil level too low)	83 mm	Replenish oil quantity in liters	+2.4
		85 mm	Replenish oil quantity in liters	+2.2
		87 mm	Replenish oil quantity in liters	+2.1
		89 mm	Replenish oil quantity in liters	+1.9
		91 mm	Replenish oil quantity in liters	+1.8
		93 mm	Replenish oil quantity in liters	+1.6
		95 mm	Replenish oil quantity in liters	+1.5
		97 mm	Replenish oil quantity in liters	+1.3
		99 mm	Replenish oil quantity in liters	+1.1
		101 mm	Replenish oil quantity in liters	+0.9
		103 mm	Replenish oil quantity in liters	+0.7
		105 mm	Replenish oil quantity in liters	+0.5
		107 mm	Replenish oil quantity in liters	+0.3

BF18.00-P-1003-03DA	Oil dipstick indication 109 mm to 111 mm (oil level correct)	109 mm	Oil quantity in liters	0.0
		110 mm	Oil quantity in liters	0.0
		111 mm	Oil quantity in liters	0.0
BF18.00-P-1004-03DA	Oil dipstick indication 113 mm to 121 mm (oil level too high)	113 mm	Extract oil quantity in liters	-0.3
		115 mm	Extract oil quantity in liters	-0.5
		117 mm	Extract oil quantity in liters	-0.7
		119 mm	Extract oil quantity in liters	-0.9
		121 mm	Extract oil quantity in liters	-1.1

Oil level check

Number	Designation	Engine 113.963/967/968		
BF18.00-P-1001-03C	Oil level	Maximum	mm	149
		Minimum	mm	132
BF18.00-P-1002-03C	Dipstick indication 118 mm to 146 mm (oil level too low)	118 mm	Replenish oil quantity in liters	+2.8
		120 mm	Replenish oil quantity in liters	+2.5
		122 mm	Replenish oil quantity in liters	+2.4
		124 mm	Replenish oil quantity in liters	+2.2
		126 mm	Replenish oil quantity in liters	+2.0
		128 mm	Replenish oil quantity in liters	+1.8
		130 mm	Replenish oil quantity in liters	+1.6
		132 mm	Replenish oil quantity in liters	+1.4
		134 mm	Replenish oil quantity in liters	+1.3
		136 mm	Replenish oil quantity in liters	+1.1
		138 mm	Replenish oil quantity in liters	+0.9
		140 mm	Replenish oil quantity in liters	+0.8
		142 mm	Replenish oil quantity in liters	+0.6
		144 mm	Replenish oil quantity in liters	+0.4
		146 mm	Replenish oil quantity in liters	+0.3
BF18.00-P-1003-03C	Oil dipstick indication 148 mm to 150 mm (oil level correct)	148 mm	Oil quantity in liters	0.0
		149 mm	Oil quantity in liters	0.0

		150 mm	Oil quantity in liters	0.0
BF18.00-P-1004-03C	Oil dipstick indication 152 mm to 160 mm (oil level too high)	152 mm	Extract oil quantity in liters	-0,3
		154 mm	Extract oil quantity in liters	-0.4
		156 mm	Extract oil quantity in liters	-0.6
		158 mm	Extract oil quantity in liters	-0.8
		160 mm	Extract oil quantity in liters	-0.9



Dipstick