

**Equipment information**

**Equipment:** 00007547140  
**Type:** BA12M 816  
**Output:** 0000680,0 kW  
**Speed:** 1800 1/min  
**Build date:** 01.03.1991  
**KLU-Number:**  
**ETL scope:** EU242449  
**MVS:** 712

**VKU date:** 01.03.1991

**VKU' date:**

**Commissioning date:**

**Begin of guarantee period:**

**Man. begin of guar. period:** no

**End of guarantee period:**

**ID maintenance contract:**

**ID insurance contract:**

**Guarantee package:**

## Assembly group directory

<b>Equipment:</b>	00007547140	<b>Engine type:</b>	BA12M 816
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<b>ETL scope:</b>	EU242449		

CG	ETL-No.	Designation (en)	Designation (en)
<b>1</b>		<b>Crankcase</b>	
1	0501 8406	Oil line	Oil line
1	0501 8413	Rear end cover	Rear end cover
1	0501 8418	Front cover	Front cover
1	0501 8438	Oil filler	Oil filler
1	0501 8452	Suspension eye	Suspension eye
1	0501 9314	Breather pipe	Breather pipe
1	0501 9321	Breather	Breather
1	0503 1987	Cover	Cover
1	0503 8975	Crankcase	Crankcase
1	0506 1165	Wet air cleaner	Wet air cleaner
1	0506 2535	Blanking parts	Blanking parts
<b>2</b>		<b>Oil pan</b>	
2	0501 8511	Oil pan	Oil pan
2	0506 0118	Dipstick	Dipstick
<b>5</b>		<b>Crankshaft</b>	
5	0501 8409	Fastenings	Fastenings
5	0501 8781	Flywheel	Flywheel
5	0501 9307	Vibration damper	Vibration damper
5	0506 1093	Crankshaft	Crankshaft
<b>6</b>		<b>Connecting rod</b>	
6	0501 8410	Connecting rod	Connecting rod
<b>7</b>		<b>Piston</b>	
7	0506 6015	Piston	Piston
<b>8</b>		<b>Cylinder head</b>	
8	0501 8638	Fastenings	Fastenings
8	0506 1015	Cylinder head	Cylinder head
<b>10</b>		<b>Camshaft</b>	
10	0501 8699	Tacho drive	Tacho drive
10	0506 0008	Camshaft	Camshaft
<b>11</b>		<b>Timing gears</b>	
11	0501 8415	Valve drive	Valve drive
<b>14</b>		<b>Lube oil pump</b>	
14	0501 8400	Lubricat. oil pump	Lubricat. oil pump
14	0506 1164	Valve seat lubric.	Valve seat lubric.
14	0506 1168	Valve seat lubric.	Valve seat lubric.
<b>15</b>		<b>Lube oil/-cooler</b>	
15	0501 8447	Fastenings	Fastenings
15	0501 8605	Lubric. oil filter	Lubric. oil filter
15	0501 8612	Centrifug.mounting	Centrifug.mounting
15	0506 1166	Oil cooler	Oil cooler
<b>16</b>		<b>Oil pipes</b>	
16	0501 8494	Piston cooling	Piston cooling
16	0501 8513	Suction pipe	Suction pipe
16	0501 8528	Pressure oil line	Pressure oil line
16	0501 8529	Disch./drain pipe	Disch./drain pipe
16	0501 8650	Semi-rotary pump	Semi-rotary pump
16	0501 9371	Lubricat. oil line	Lubricat. oil line
<b>17</b>		<b>Injection pump</b>	

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CG	ETL-No.	Designation (en)	Designation (en)
17	0502 7066	Parts of fuel pump	Parts of fuel pump
17	0502 9111	Parts of fuel pump	Parts of fuel pump
17	0502 9228	Parts of governor	Parts of governor
17	0502 9353	Parts inject.pump	Parts inject.pump
17	0503 1669	Clutch/coupling	Clutch/coupling
17	0503 1942	Pneumatic line	Pneumatic line
17	0506 0187	Fuel inject. pump	Fuel inject. pump
17	0506 6026	Pipeline	Pipeline
<b>18</b>		<b>Injection pump drive</b>	
18	0503 8997	Inject. pump drive	Inject. pump drive
18	0506 1075	Timing device	Timing device
<b>19</b>		<b>Injector</b>	
19	0502 9151	Parts of injector	Parts of injector
19	0503 1886	Fuel injector	Fuel injector
<b>20</b>		<b>Fuel filter</b>	
20	0501 8520	Fuel duplex filter	Fuel duplex filter
20	0501 8949	Hose assembly	Hose assembly
20	0502 2383	Fuel duplex filter	Fuel duplex filter
<b>21</b>		<b>Fuel pipes/fuel tank</b>	
21	0501 8488	Leak off line	Leak off line
21	0501 8492	Hose assembly	Hose assembly
21	0501 8493	Accessories	Accessories
21	0501 8592	Hose assembly	Hose assembly
21	0501 9363	Drain line	Drain line
21	0501 9364	Fastening clip	Fastening clip
21	0503 1700	Fuel line	Fuel line
21	0506 0007	High pressure pipe	High pressure pipe
21	0506 6025	Overflow line	Overflow line
<b>22</b>		<b>Suction pipe/air cleaner</b>	
22	0501 8404	Charge air elbow	Charge air elbow
22	0501 9372	Intake elbow	Intake elbow
22	0503 1539	Charge air pipe	Charge air pipe
22	0503 1540	Charge air pipe	Charge air pipe
<b>26</b>		<b>Heater plug installation</b>	
26	0501 8827	Heater system	Heater system
<b>34</b>		<b>Vibration damper</b>	
34	0503 8978	Auxiliary drive	Auxiliary drive
<b>36</b>		<b>Water cooler</b>	
36	0506 1198	Filler cap	Filler cap
<b>37</b>		<b>Cooling water pump</b>	
37	0501 8709	Fastenings	Fastenings
37	0501 8820	Drive	Drive
37	0506 6035	Cooling water pump	Cooling water pump
<b>38</b>		<b>Water pipes</b>	
38	0501 8458	Cooling water line	Cooling water line
38	0501 8631	Cooling water line	Cooling water line
38	0501 8946	Cooling water line	Cooling water line
38	0501 9322	Bracket	Bracket
38	0501 9385	Cooling water line	Cooling water line
38	0503 1325	Breather line	Breather line

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CG	ETL-No.	Designation (en)	Designation (en)
38	0503 1368	Cooling water line	Cooling water line
38	0503 1883	Cooling water line	Cooling water line
38	0506 2550	Breather	Breather
38	0506 5947	Thermostat	Thermostat
<b>41</b>		<b>Exhaust manifold</b>	
41	0501 8416	Expansion joint	Expansion joint
41	0501 8461	Support	Support
41	0501 8590	Exhaust pipe	Exhaust pipe
41	0501 8720	Exm manifold ins	Exm manifold ins
41	0501 8785	Corrugated tube	Corrugated tube
41	0501 8847	Exhaust manifold	Exhaust manifold
41	0503 1388	Hood	Hood
41	0506 5223	Accessories	Accessories
<b>42</b>		<b>Cranking device</b>	
42	0501 9381	Turn-over gear	Turn-over gear
<b>43</b>		<b>Turbocharger</b>	
43	0501 8640	Hood	Hood
43	0506 5946	Turbocharger	Turbocharger
<b>44</b>		<b>Alternator/starter motor</b>	
44	0501 8455	Starter	Starter
44	0501 8738	Generator	Generator
44	0502 8972	Parts start.motor	Parts start.motor
44	0503 1310	Bracket	Bracket
<b>46</b>		<b>Engine mounting, rigid</b>	
46	0501 8749	Engine mounting	Engine mounting
<b>48</b>		<b>Electrical accessories</b>	
48	0501 8741	Regulator cut-out	Regulator cut-out
48	0501 8800	Electrical parts	Electrical parts
48	0501 8829	Heater plug resist	Heater plug resist
48	0501 9300	Cable gland	Cable gland
48	0503 1677	Incandescent lamp	Incandescent lamp
48	0503 1894	Incandescent lamp	Incandescent lamp
48	0506 1177	Cabling	Cabling
48	0506 1180	Cabling	Cabling
48	0506 1181	Cabling	Cabling
48	0506 5905	Cabling	Cabling
48	0506 5917	Cable terminal box	Cable terminal box
48	0506 6084	Cabling	Cabling
<b>49</b>		<b>Tools</b>	
49	0501 8676	Fitting ring	Fitting ring
49	0501 8677	Toolkit	Toolkit
49	0501 8678	Tool	Tool
<b>50</b>		<b>Special tools</b>	
50	0506 2537	Gasket set	Gasket set
<b>51</b>		<b>Measuring instruments</b>	
51	0501 8456	Tacho drive	Tacho drive
51	0501 8477	Thermometer	Thermometer
51	0501 8478	Thermometer	Thermometer
51	0501 8480	Thermometer	Thermometer
51	0501 8491	Accessories	Accessories

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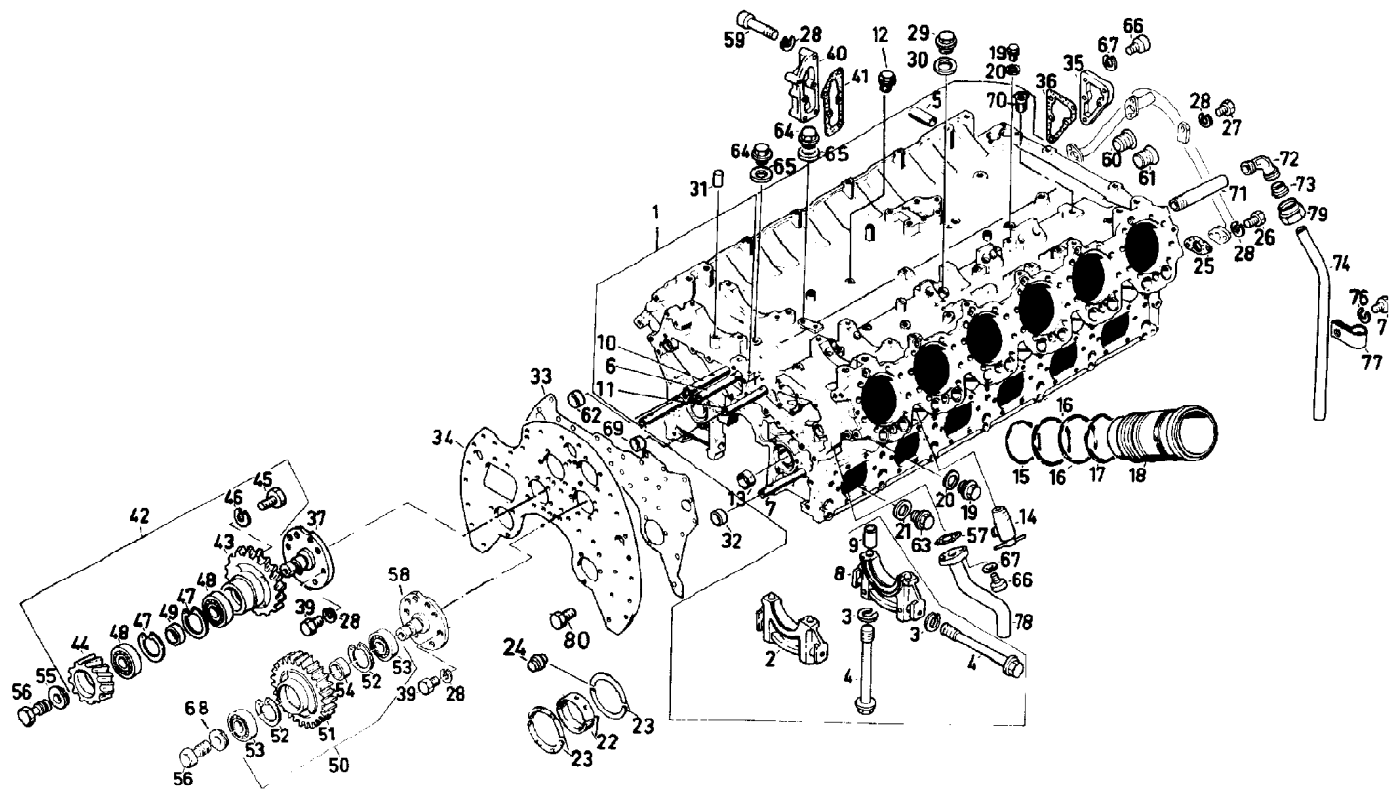
<b>CG</b>	<b>ETL-No.</b>	<b>Designation (en)</b>	<b>Designation (en)</b>
51	0501 8799	Tacho indicator	Tacho indicator
51	0501 9379	Pressure gauge	Pressure gauge
51	0506 1161	Tacho generat.assy	Tacho generat.assy
<b>56</b>		<b>Engine shutdown</b>	
56	0506 1136	Solenoid mounting	Solenoid mounting
<b>57</b>		<b>V-belt guard</b>	
57	0501 8659	Protection hood	Protection hood
57	0501 9325	Cover	Cover
57	0503 1628	Protection hood	Protection hood
<b>58</b>		<b>Intercooler</b>	
58	0501 8411	Cooler assembly	Cooler assembly
58	0506 1189	Drain valve	Drain valve
58	0506 5210	Charge air cooler	Charge air cooler
58	0506 5213	Charge air cooler	Charge air cooler

ETL no.: 0503 8975 Crankcase

Constr. Group: 01

Equipment: 00007547140  
Output: 0000680,0 kW  
ETL scope: EU242449

Engine type: BA12M 816  
Speed: 1800 1/min



0503 8975

Item	Material	Kit	MS	VS	Quant	Unit	Ord	Designation (en)	Designation (en)	Remark
1	04052744				1	ST		Crankcase	Crankcase	
2	02153496				6	ST		Bearing cap	Bearing cap	
3	01216105				28	ST		Plain washer	Plain washer	
4	01215915				28	ST		Hexagon bolt	Hexagon bolt	
5	02159339				1	ST		Oil pipe	Oil pipe	
6	04000215				1	ST		Oil pipe	Oil pipe	
7	03374606				9	ST		Oil pipe	Oil pipe	
8	02153494				1	ST		Bearing cap	Bearing cap	
9	03373086				14	ST		Dowel bush	Dowel bush	
10	02158628				1	ST		Oil pipe	Oil pipe	
11	02158627				1	ST		Oil pipe	Oil pipe	
12	01104736				1	ST		Screw plug	Screw plug	
13	04001175		20		13	ST		Bearing bush	Bearing bush	
14	01120690				2	ST		Drain valve	Drain valve	
15	01162684				12	ST		O-seal	O-seal	
16	01212716				24	ST		O-seal	O-seal	
17	01178454				12	ST		O-seal	O-seal	
18	04001561				12	ST		Cylinder liner	Cylinder liner	PHOSPHATIERT NORM.STUF.H=12,1MM(0,47 64IN) REP.STUFE PHOSPH.POS.96 0 =====

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Item	Material	Kit	MS	VS	Quant	Unit	Ord	Designation (en)	Designation (en)	Remark
										=====
										KUGELGESTRAHLTE ZYL.LAU
										FBUCH.
										NORMAL STUFE     POS.96
										1
										REP.STUFE KUGELG.POS.96
										2
19	01118997		20	20	14	ST		Screw plug	Screw plug	
20	01118659				14	ST		Sealing ring	Sealing ring	
21	01118700				2	ST		Sealing ring	Sealing ring	
22	04003003				7	SA		Main bearing	Main bearing	
										NORMAL 124,00MM RD.(4.8
										818IN)
23	04003011				2	KG		Stop ring	Stop ring	REP.STUFEN(POS.950-955)
										NORMAL 2,985MM(0.1175IN
										)
										REP.STUFEN(POS.956-958)
24	03362280				2	ST		Locating pin	Locating pin	
25	01120794				3	ST		Gasket	Gasket	
26	01112322		20	20	6	ST		Hexagon bolt	Hexagon bolt	
27	01112307				1	ST		Hexagon bolt	Hexagon bolt	
28	01102799				13	ST		Lock washer	Lock washer	
29	01118971				1	ST		Screw plug	Screw plug	
30	01118713				1	ST		Sealing ring	Sealing ring	
31	01105177				1	ST		Parallel pin	Parallel pin	
32	01165831				3	ST		Core hole plug	Core hole plug	
33	04051133				1	ST		Gasket	Gasket	
34	04016545				1	ST		Plate	Plate	
35	02159324				1	ST		Cover	Cover	
36	02159325				1	ST		Gasket	Gasket	
37	02158725		50	50	1	ST		Journal	Journal	
39	06214154				13	ST		Hexagon bolt	Hexagon bolt	
40	02159366				1	ST		Cover	Cover	
41	02159348				1	ST		Gasket	Gasket	
42	04000433				1	ST		Idler gears	Idler gears	
43	02151840				1	ST		Idler gear	Idler gear	
44	02151845				1	ST		Idler gear	Idler gear	
45	01112311		20	20	4	ST		Hexagon bolt	Hexagon bolt	
46	01102799				4	ST		Lock washer	Lock washer	
47	01107844				2	ST		Circlip	Circlip	
48	01174298				2	ST		Ball bearing	Ball bearing	
49	04000434				1	ST		Bush	Bush	
50	04016364				1	ST		Idler gear	Idler gear	
51	04016365				1	ST		Idler gear	Idler gear	
52	01107844				2	ST		Circlip	Circlip	
53	01174435				2	ST		Cyl.roller bearing	Cyl.roller bearing	
54	04016360				1	ST		Bush	Bush	
55	04000436		50	50	1	ST		Collar washer	Collar washer	
56	01166837				2	ST		Hexagon bolt	Hexagon bolt	
57	03308822				1	ST		Gasket	Gasket	
58	04016366				1	ST		Journal	Journal	
59	01127046		20	20	6	ST		Hexagon bolt	Hexagon bolt	
60	01165789				2	ST		Slotted plug	Slotted plug	
61	01165794				1	ST		Slotted plug	Slotted plug	
62	01165828				1	ST		Core hole plug	Core hole plug	
63	01118964		20	20	2	ST		Screw plug	Screw plug	
64	01118955				4	ST		Screw plug	Screw plug	
65	01118673				4	ST		Sealing ring	Sealing ring	

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Constr. Group: 01

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Item	Material	Kit	MS	VS	Quant	Unit	Ord	Designation (en)	Designation (en)	Remark
66	01126918		20	20	7	ST		Cheese head screw	Cheese head screw	
67	01119611				7	ST		Lock washer	Lock washer	
68	04016359				1	ST		Plain washer	Plain washer	
69	04016368				1	ST		Core hole plug	Core hole plug	
70	01215143				1	ST		Threaded bush	Threaded bush	
71	04004022				1	ST		Tube	Tube	
72	01116732		20	20	1	ST		Socket/adaptor	Socket/adaptor	
73	01116623		10	10	1	ST		Cutting ring	Cutting ring	
74	04004021				1	ST		Tube	Tube	
75	01126186		20	20	1	ST		Hexagon bolt	Hexagon bolt	
76	01102800				1	ST		Lock washer	Lock washer	
77	03369462				1	ST		Pipe clamp	Pipe clamp	
78	04007426				1	ST		Oil drain pipe	Oil drain pipe	
79	01116650		20	20	1	ST		Union nut	Union nut	
80	06214153				14	ST		Hexagon bolt	Hexagon bolt	HF 2009-DM 8X20-100 A4C
950	04003004				7	SA		Main bearing	Main bearing	1.REPARATURSTUFE 123,75MM RD(4.8720IN)
951	04003005				7	SA		Main bearing	Main bearing	2.REPARATURSTUFE 123,50MM RD(4.8621IN)
952	04003006				7	SA		Main bearing	Main bearing	3.REPARATURSTUFE 123,25MM RD(4.8523IN)
953	04003007				7	SA		Main bearing	Main bearing	4.REPARATURSTUFE 123,00MM RD(4.8425IN)
954	04003008				7	SA		Main bearing	Main bearing	5.REPARATURSTUFE 122,75MM RD(4.8326IN)
955	04003009				7	SA		Main bearing	Main bearing	6.REPARATURSTUFE 122,50MM RD(4.8228IN)
956	04003012				2	SA		Stop ring	Stop ring	1.REPARATURSTUFE 3,135MM(0.1234IN)
957	04003013				2	SA		Stop ring	Stop ring	2.REPARATURSTUFE 3,285MM(0.1293IN)
958	04003014				2	SA		Stop ring	Stop ring	3.REPARATURSTUFE 3,435MM(0.1352IN)
960	04009718				1	ST		Cylinder liner	Cylinder liner	PHOSPHATIERT REP.STUFE H=13,1MM(0,51 58IN)
961	04054093				1	ST		Cylinder liner	Cylinder liner	KUGELGESTRAHLT NORM.STUF.H=12,1MM(0,47 64IN)
962	04054557		AW	1		ST		Cylinder liner	Cylinder liner	KUGELGESTRAHLT REP.STUFE H=13,1MM(0,51 58IN)