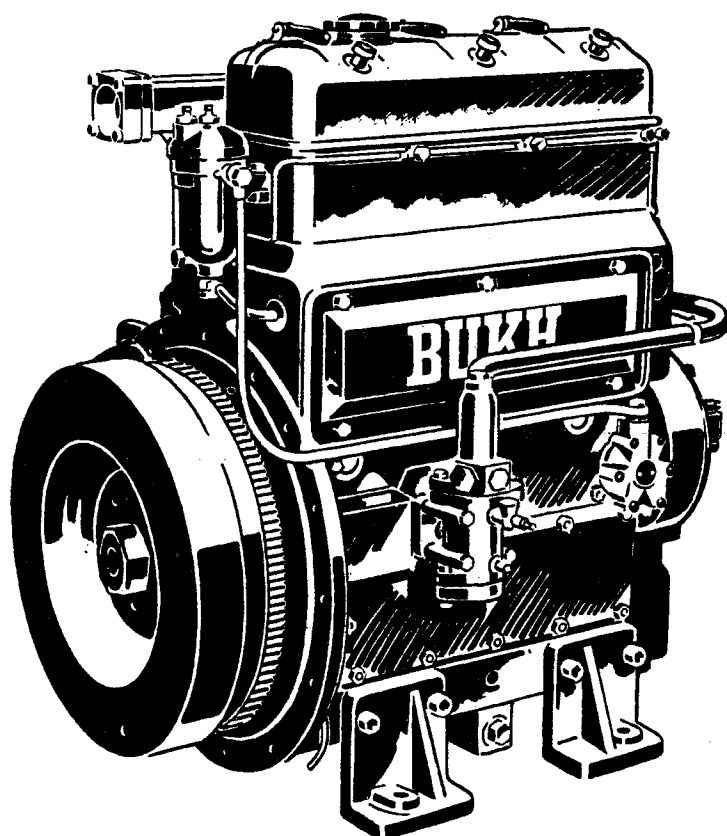


ILLUSTRATED
SPARE PARTS CATALOGUE
FOR
BUKH DIESEL ENGINES

TYPES G 105 - 2 G 105 og 3 G 105



Løkken Smede- og Maskinværksted A/S

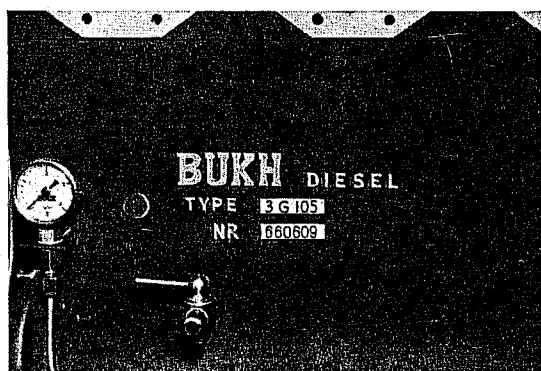
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www.lsm-diesel.dk • e-mail: lsm@lsm-diesel.dk

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5	Crankcase, studs and fitting bolt for end cover, studs for cylinder head
7	Bracket for engine, cylinder liner, cylinder head gasket
9	Crankshaft, main bearing lining, intermediate bearing
11	Camshaft, push rod guide, push rod, fuel pump push rod
13	Crank case end cover with gasket, various side covers with gaskets, dipstick, cover with vacuum valve
15	Piston, connecting rod, cylinder head, leading-in bush for fuel oil pressure pipe and for push rod, return pipe for lubricating oil, exhaust flange, clamb for air inlet an exhaust manifold
17	Valve guide, valve seat, valve, valve spring, rocker arm, stanchion for rocker arm, rocker shaft with overpressure valve, pre-combustion chamber, gasket for pre-combustion chamber, gasket for nozzle, cover for cylinder head, valve lifter, gasket for cover for cylinder head, oil filler cover, breather pipe
19	Various expansion plugs, studs, pipe plugs, gaskets etc., drain plug (lub. oil), guide screw for fuel pump push rod, lining for camshaft, gasket for oil suction line, gasket for oil delivery line, rubber plug for throttle control, drain cock for coolant
21	Fuel oil tank, bracket for tank, etc.
23	Fuel oil lift pump
25	Fuel oil filter
27	Fuel oil pump, drip pan
29	Fuel oil valve, studs and flange for fuel valve
31	Governor, throttle control (end cover mounted)
33	Throttle control (flywheel cover mounted)
35	Lubricating suction filter, lubricating oil pump, overflow valve f. lubricating oil, manometer, lubricating oil filter, studs and intermediate flange for lub. oil filter
37	Various lub. oil pipes and fuel oil pipes
39	Exhaust manifold, air inlet manifold, water outlet pipe, air inlet filter
41	Cooling water pump
43	Flywheel cover, flywheel, belt pulley for G 105, extension of flywheel cover
45	Coupling flange, driving flange, belt pulley in two parts, V-belt pulley
47	Set of tools
48-49	Set of gaskets
	Various section of engines

This spare part catalogue is common to BUKH diesel engines types G 105, 2 G 105, and 3 G 105.

The spare parts are indicated by spare part numbers which are stated in the column to the extreme left, after which the number of parts necessary for each engine is stated under the respective engine types in the following three columns. In the last column the weight in kg per part is stated.

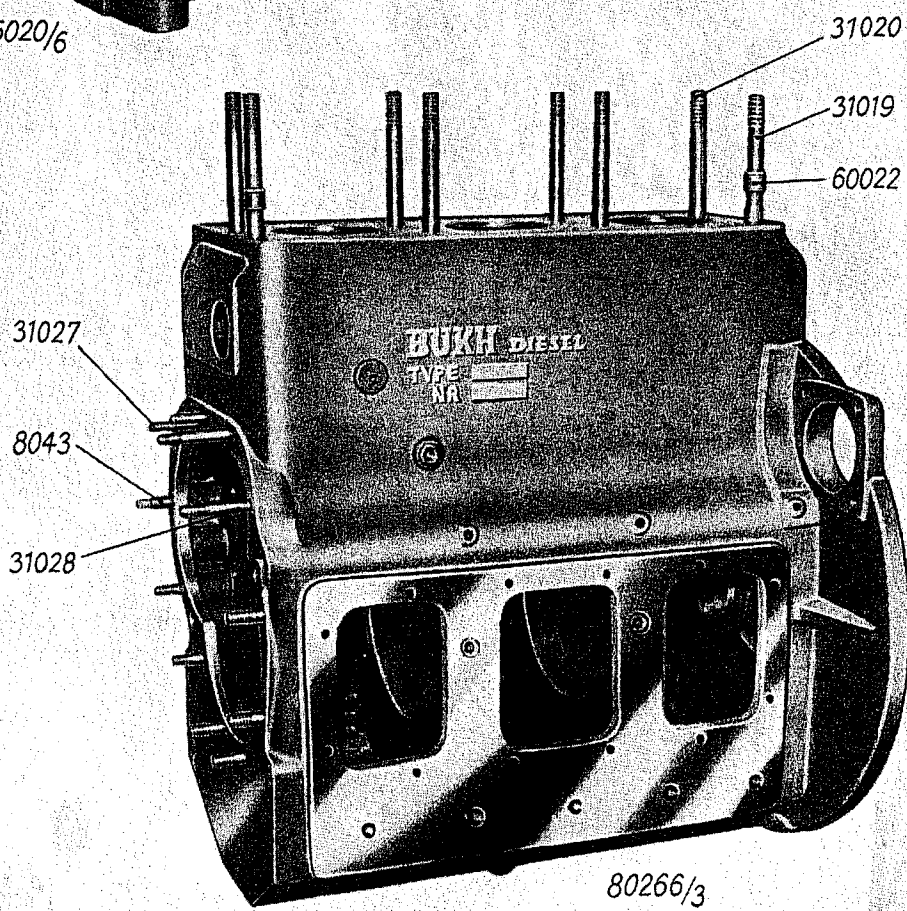
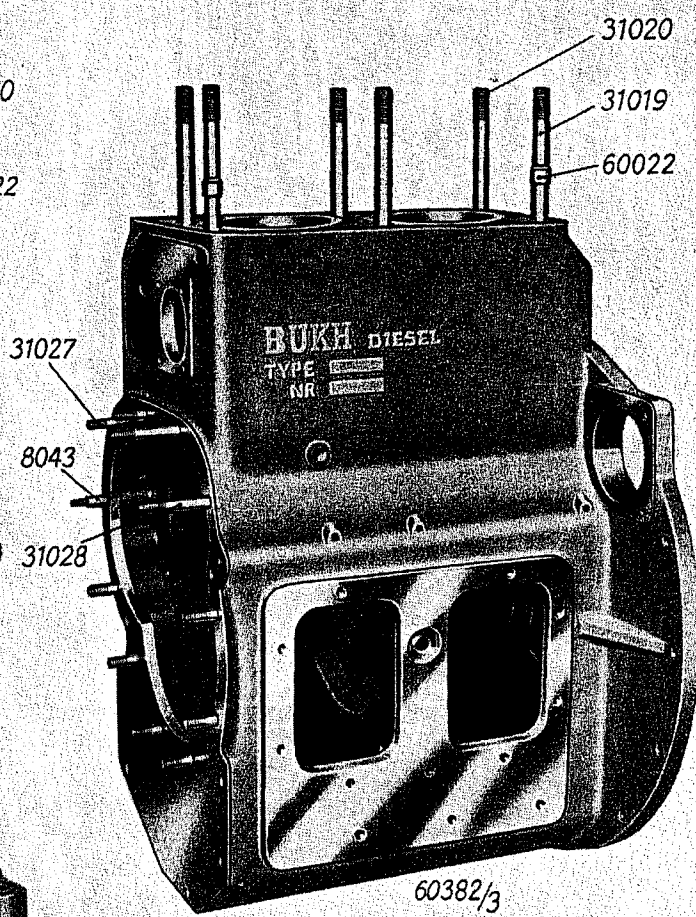
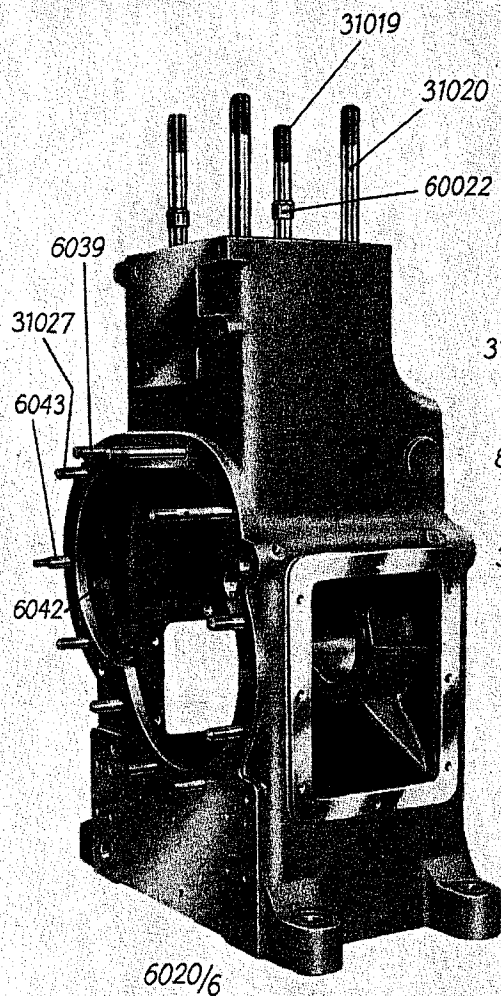


IMPORTANT!

In the event of an order for spare parts please always indicate type and number of the engine, stated on the side of the engine.

An example of a correct spare part order:

"I order for engine type 3 G 105 – engine No. 660609 two cylinder liners No. 60383."

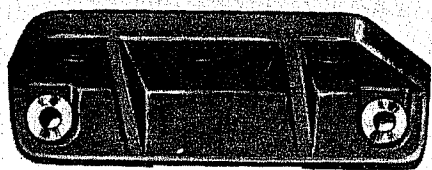


Part no.	No. req. per Engine			Weight each kg	Designation
	G 105	2 G 105	3 G 105		
6020/6	1			73.000	1) Crankcase compl. with studs and main bearing lining
6020/7	1			73.000	1) Crankcase compl. with studs and main bearing lining (not ill.)
60382/2		1		134.000	2) Crankcase compl. with studs and main bearing lining (not ill.)
60382/3		1		134.000	2) Crankcase complete with studs and main bearing lining
80266/2			1	186.000	3) Crankcase compl. with studs and main bearing lining (not ill.)
80266/3			1	186.000	3) Crankcase compl. with studs and main bearing lining
31027	7	8	8	0.040	Stud for end cover - 1/2" no. 43
6039	1			0.065	Stud for end cover - 1/2" no. 48
6042	2			0.083	Stud for end cover - 1/2" no. 51
31028		2	2	0.073	Stud for end cover - 1/2" no. 50
6043	1			0.100	Fitting bolt for end cover
8043		1	1	0.105	Fitting bolt for end cover
31030	11	11	11	0.030	Nut - 1/2" - for stud and fitting bolt (not ill.)
31020	2	4	6	0.275	Stud for cylinder head
60022	2	2	2		Guide ring for stud for cylinder head
31019	2	2	2	0.300	Stud for cylinder head (with guide ring)
31021	4	6	8	0.090	Nut for stud for cylinder head - 3/4" - (not ill.)

1) Spare part No. 6020/6 - used for G 105 until engine No. 26211
Spare part N. 6020/7 - used for G 105 from engine No. 26212

2) Spare part No. 60382/2 - used for 2 G 105 until engine No. 76718
Spare part No. 60382/3 - used for 2 G 105 from engine No. 76719

3) Spare part No. 80266/2 - used for 3 G 105 until engine No. 61277
Spare part No. 80266/3 - used for 3 G 105 from engine No. 61278



85002



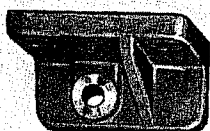
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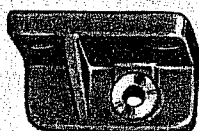
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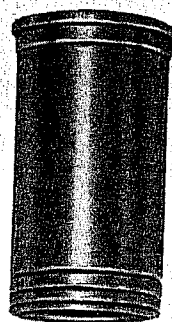
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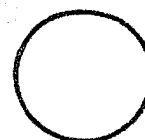
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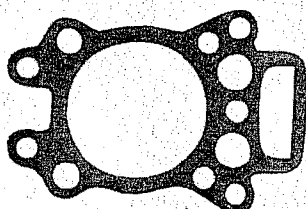
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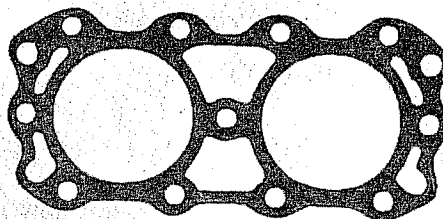
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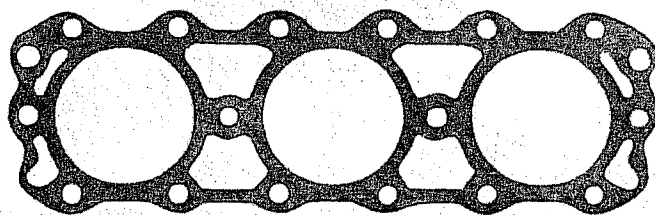
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6162/3



60385



80267

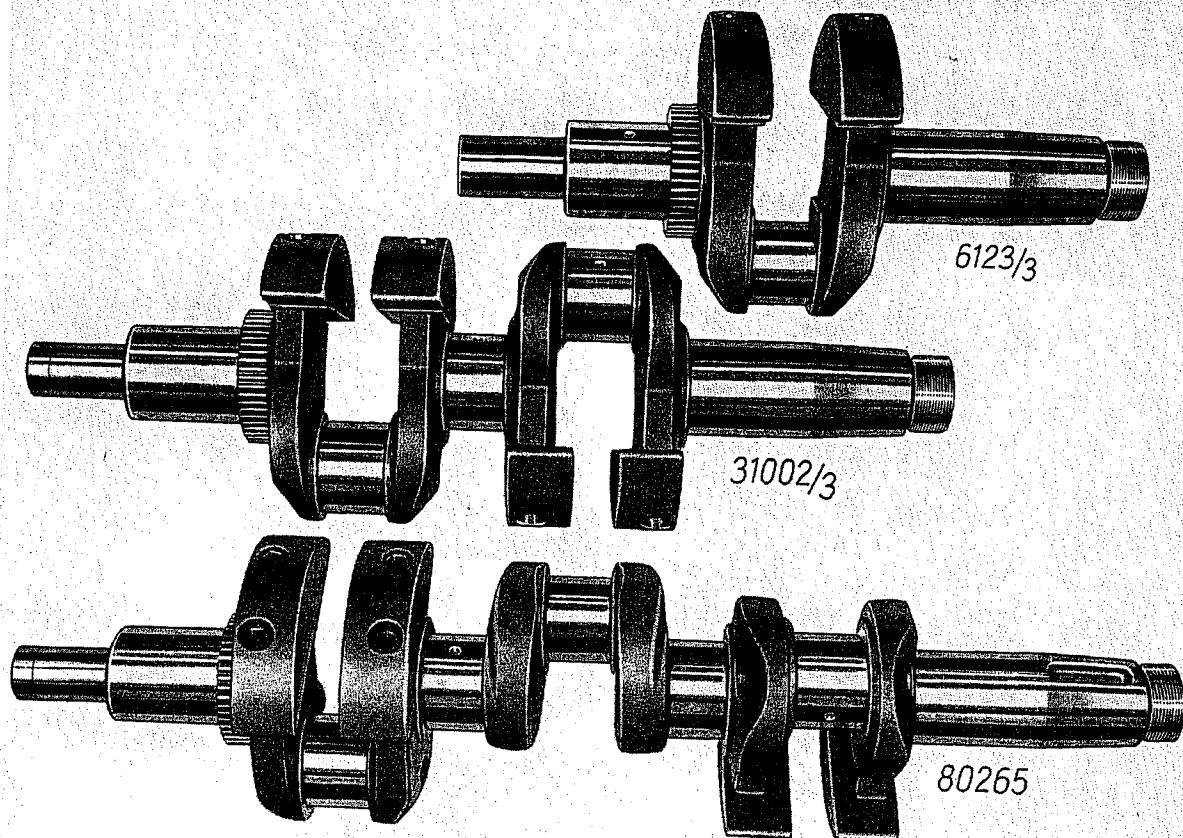


60377



80306

Part no.	No. req. per Engine			Weight each kg	Designation
	G 105	2 G 105	3 G 105		
85002		2		10.800	Bracket for engine
85003		6	8	0.120	Stud for bracket - $\frac{3}{4}$ " $\times$ 68 mm
31021		6	8	0.090	Nut - $\frac{3}{4}$ "
85004		4	8	0.005	Pin - $6\phi \times 32$ mm
85032			2	4.500	Bracket for engine
85033			2	4.500	Bracket for engine
60383	1	2	3	4.300	Cylinder liner
60384	2	4	6	0.006	Rubber ring for cylinder liner
6162/3	1			0.040	Cylinder head gasket
60385		1		0.070	Cylinder head gasket
90267			1	0.100	Cylinder head gasket
60377		1		0.005	Cylinder head gasket
80306			1	0.006	Cylinder head gasket



6147/2



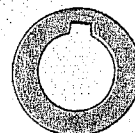
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85001



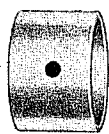
31004



31005



31006



31007/2



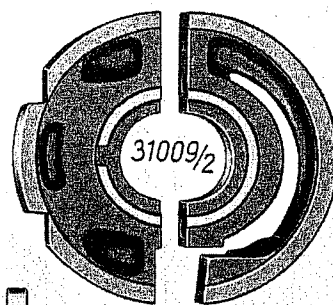
85087



85088



31017



31009/2



31011



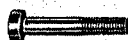
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31010



85085



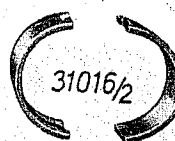
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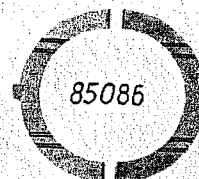
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31015

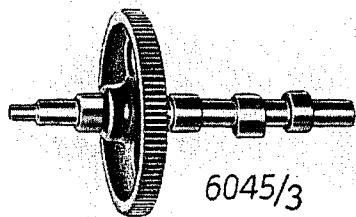


31016/2

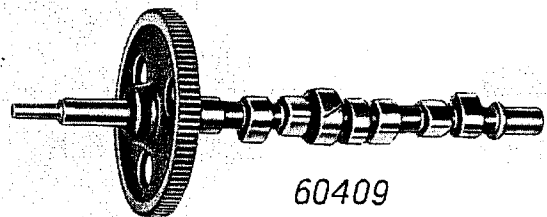


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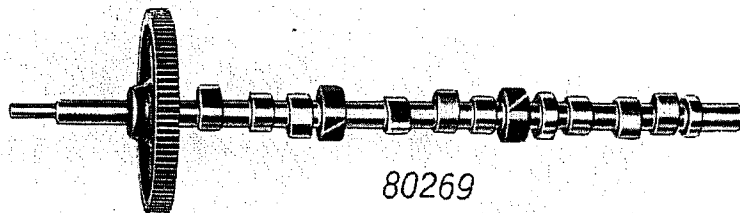
Part no.	No. req. per Engine			Weight each kg	Designation
	G 105	2 G 105	3 G 105		
6123/3	1			21.500	Crankshaft with gear wheel
31002/3		1		34.600	Crankshaft with gear wheel
80265			1	44.000	Crankshaft with gear wheel
6127/2	1	1	1		Gearwheel for crankshaft
6147/2	1			0.200	Guard for starting handle claw
85000		1	1	1.200	Starting handle claw
85001		2	2	0.005	Pointed screw for starting handle claw - $\frac{3}{8} \times \frac{1}{2}$ " type W.S.P.
31004	1	1	1	0.500	Nut for crankshaft
31005	1	1	1	0.053	Locking washer for nut
31006	1	1	1	0.020	Key for flywheel
31007	2	2	2	0.230	1) Main bearing lining (not ill.)
31007A					1) Main bearing lining 0.5 mm undersize (not ill.)
31007D					1) Main bearing lining 0.8 mm undersize (not ill.)
31007B					1) Main bearing lining 1.0 mm undersize (not ill.)
31007C					1) Main bearing lining 1.5 mm undersize (not ill.)
31016		1	2	0.150	1) Intermediate liner, top and bottom part (not ill.)
31016A					1) Intermediate liner 0.5 mm undersize (not ill.)
31016D					1) Intermediate liner 0.8 mm undersize (not ill.)
31016B					1) Intermediate liner 1.0 mm undersize (not ill.)
31016C					1) Intermediate liner 1.5 mm undersize (not ill.)
31007/2	2	2	2	0.230	2) Main bearing lining
31007/2A					2) Main bearing lining 0.5 mm undersize
31007/2D					2) Main bearing lining 0.8 mm undersize
31007/2B					2) Main bearing lining 1.0 mm undersize
31007/2C					2) Main bearing lining 1.5 mm undersize
31016/2		1	2	0.150	2) Intermediate liner, top and bottom part
31016/2A					2) Intermediate liner 0.5 mm undersize
31016/2D					2) Intermediate liner 0.8 mm undersize
31016/2B					2) Intermediate liner 1.0 mm undersize
31016/2C					2) Intermediate liner 1.5 mm undersize
31017	2	2	2	0.030	Oil seal ring „Gaco“ MIM 7085
31009		1	2	5.500	1) Intermediate bearing hub, top and bottom part (not ill.)
31009/2		1	2	5.500	2) Intermediate bearing hub, top and bottom part
31011		2	4	0.100	Unbrako screw type C - $\frac{1}{2} \times 3\frac{1}{2}$ "
31012		3	6	0.003	Spring washer $\frac{1}{2}$ "
31010		1	2	0.023	Lubricating pipe for intermediate bearing
31013		1	2	0.095	Key bolt
31014		1	2	0.074	Key
31015		1	2	0.017	Pressure shoe
85085		2	4	0.010	2) Guide pipe for intermediate bearing hub
85086		2	2	0.055	2) Thrust washer for intermediate bearing (top and bottom part)
85087	1				2) Thrust washer for crankshaft
85088	1				2) Thrust washer for crankshaft
1) Used for engine types					
G 105 until engine No. 26211					
2 G 105 until engine No. 76718					
3 G 105 until engine No. 61277					
2) Used for engine types					
G 105 from engine No. 26212					
2 G 105 from engine No. 76719					
3 G 105 from engine No. 61278					



6045/3



60409



80269

31369

31276

31277

6182

6055

31281

6056

31282

31278/2

31279

31281

31280

Part no.	No. req. per Engine			Weight each kg	Designation
	G 105	2 G 105	3 G 105		
6045/3	1			3.600	Camshaft complete with gear wheel
60409		1		5.000	1) Camshaft complete with gear wheel
60409/2		1			1) Camshaft complete with gear wheel (not ill.)
6052	1	1	1		1) Gearwheel for camshaft (not ill.)
6052/2		1			1) Gearwheel for camshaft (not ill.)
70003		1			1) Key for gearwheel and camshaft (not ill.)
80269			1	6.100	Camshaft complete with gearwheel
31369	1	1	1	0.005	Key for camshaft
31276	2	4	6	0.140	Push rod guide
31277		4	6	0.017	2) Seal ring "INA" G 18×24×3
6182	2			0.180	Push rod
6055	1			0.125	Fuel pump push rod
6056	1			0.045	Adjusting screw
31278/2		4	6	0.180	3) Push rod
31278/3		4	6	0.180	3) Push rod (not ill.)
31279		2	3	0.120	Fuel pump push rod
31280		2	3	0.025	Adjusting screw
31281	1	2	3	0.005	Lock nut - 1/8" RG
31282	1	2	3	0.005	Plate for fuel pump push rod

1) Spare part No. 60409
Spare part No. 6052
used for 2 G 105 until engine No. 75957

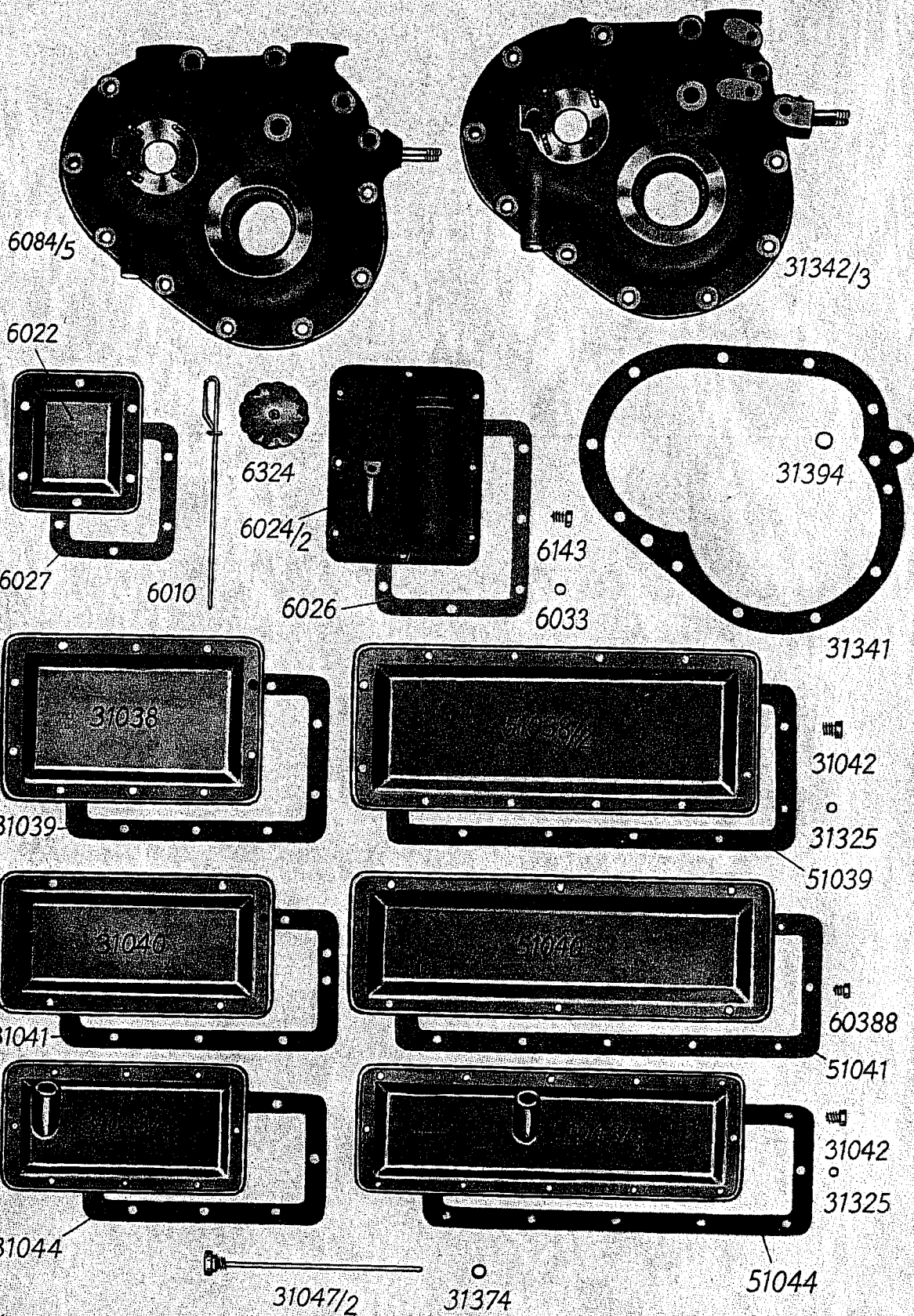
Spare part No. 60409/2
Spare part No. 6052/2
Spare part No. 70003
used for 2 G 105 from engine No. 75958

2) 31277 is a wrong spare part number. The correct spare part number for seal ring is 85020. This number should be used in the event of order.

3) Spare part No. 31278/2 used in the engine production for
2 G 105 until engine No. 76173
3 G 105 until engine No. 60552
but is not supplied as spare part.

In replacement will be supplied: Spare part No. 31278/3 - push rod with straight cut umbrella+leading-in bush for push rod, spare part No. 60398/3 (see page 15)

Spare part No. 31278/3
Spare part No. 60398/3
introduced into the engine production for
2 G 105 from engine No. 76174
3 G 105 from engine No. 60553

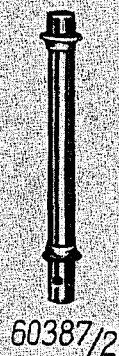
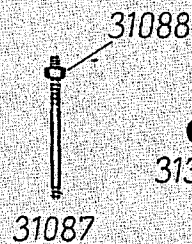
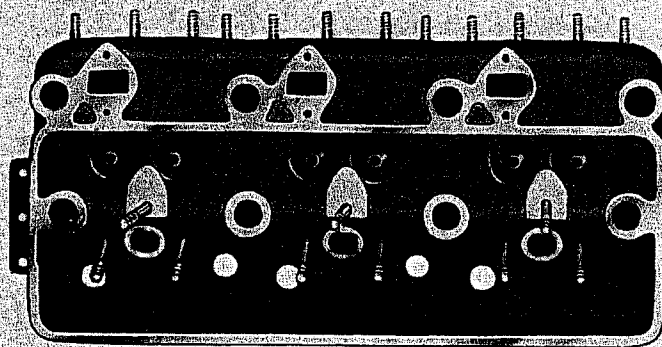
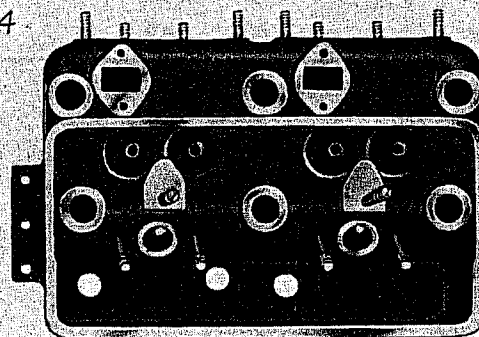
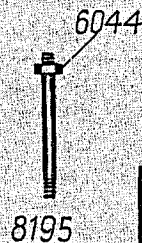
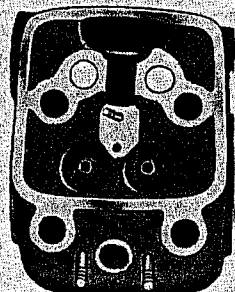
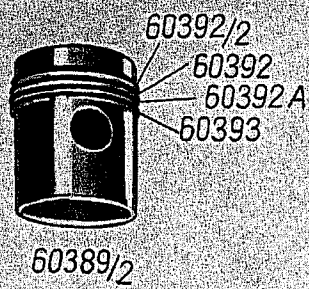


Part no.	No. req. per Engine			Weight each kg	Designation
	G 105	2 G 105	3 G 105		
6084/5	1			15.000	1) Crank case end cover, compl. with studs and main bearing lining
6084/6	1			15.000	1) Crank case end cover, compl. with studs and main bearing lining (not ill.)
31342/2		1	1	13.500	2) Crank case end cover, compl. with studs and main bearing lining (not ill.)
31342/3		1	1	13.500	2) Crank case end cover, compl. with studs and main bearing lining
31341	1	1	1	0.001	Gasket for crank case end cover
31394	1	1	1	0.001	Seal ring (Gaco-O-ring) R 120
6022	1			0.235	Side cover for crank case, front side
6027	1			0.002	Gasket for side cover
6024/2	1			3.250	Side cover for crank case, rear side
6026	1			0.002	Gasket for side cover
6143	14			0.020	Set screw for cover – $\frac{3}{8}$ " $\times$ 20 mm
6033	14			0.001	Spring washer – $\frac{3}{8}$ "
31038		1		0.800	Side cover for crank case, rear side
31039		1		0.010	Gasket for side cover
51038/2			1	1.400	Side cover for crank case, rear side
51039			1	0.010	Gasket for side cover
31042		10	12	0.019	Set screw for cover (rear side) – $\frac{3}{8}$ " $\times$ 15 mm
31325		10	12	0.001	Gasket for set screw for cover – $10/14 \phi \times 1.5$ mm
31040		1		0.750	Side cover at fuel pumps
31041		1		0.008	Gasket for cover at fuel pumps
51040			1	1.150	Side cover at fuel pumps
51041			1	0.010	Gasket for cover at fuel pumps
60388		4	6	0.015	Set screw for side cover at fuel pumps – $\frac{3}{8}$ " $\times$ 10 mm
31043/3		1			Cover for crank case – front side
31044		1		0.008	Gasket for cover for crank case – front side
51043/3			1		Cover for crank case – front side
51044			1	0.010	Gasket for cover for crank case – front side
31042		8	12	0.019	Set screw for cover for crank case – front side – $\frac{3}{8}$ " $\times$ 15 mm
31325		8	12	0.001	Gasket for set screw 31042 – $10/14 \phi \times 1.5$ mm
6010	1			0.050	Dipstick
31047/2		1	1	0.115	Dipstick
31374		1	1	0.001	Gaco-O-ring for dipstick – R 115
6324	1			0.215	Cover with vacuum valve

1) Spare part No. 6084/5 – is used for G 105 until engine No. 26211
Spare part No. 6084/6 – is used for G 105 from engine No. 26212

2) Spare part No. 31342/2 is used for
2 G 105 until engine No. 76718
3 G 105 until engine No. 61277

Spare part No. 31342/3 is used for
2 G 105 from engine No. 76719
3 G 105 from engine No. 61278

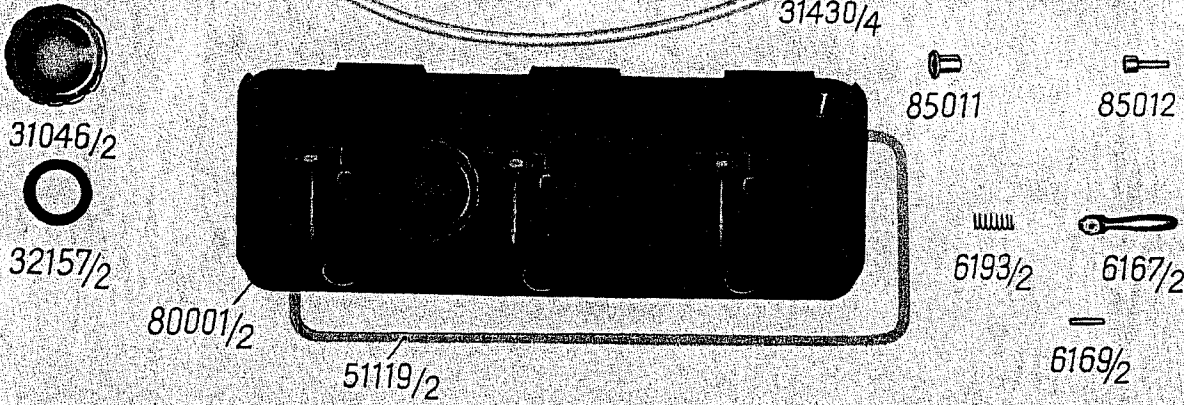
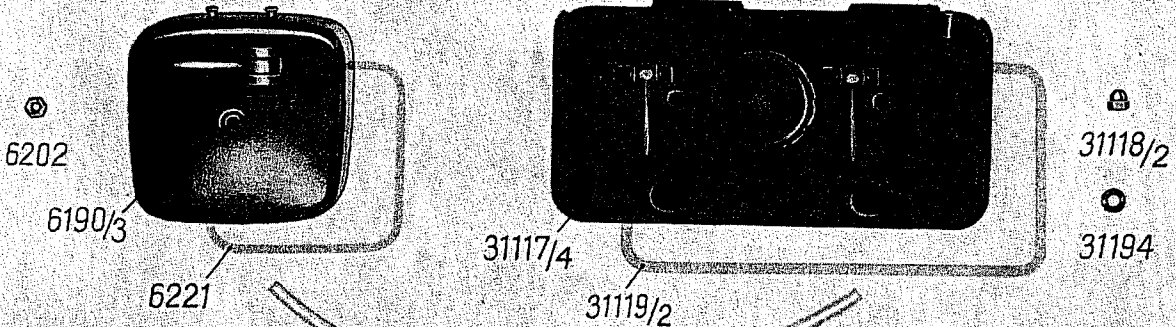
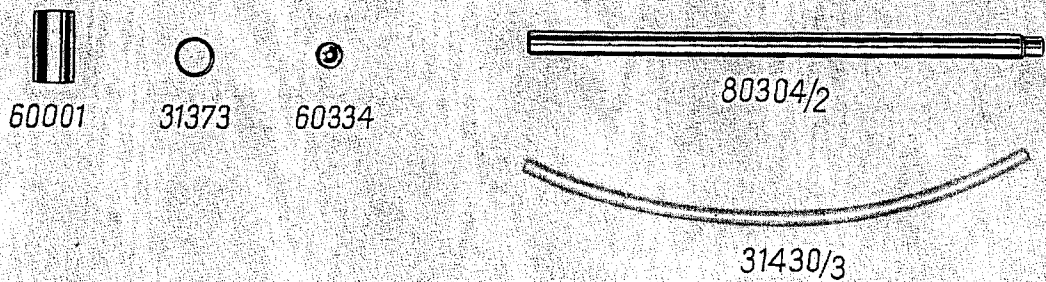
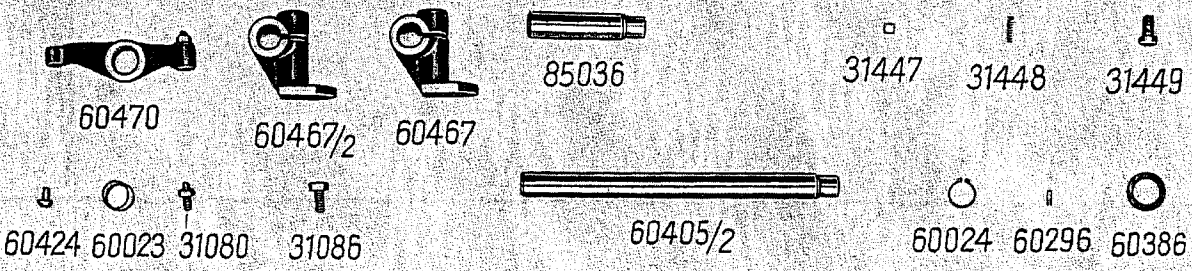
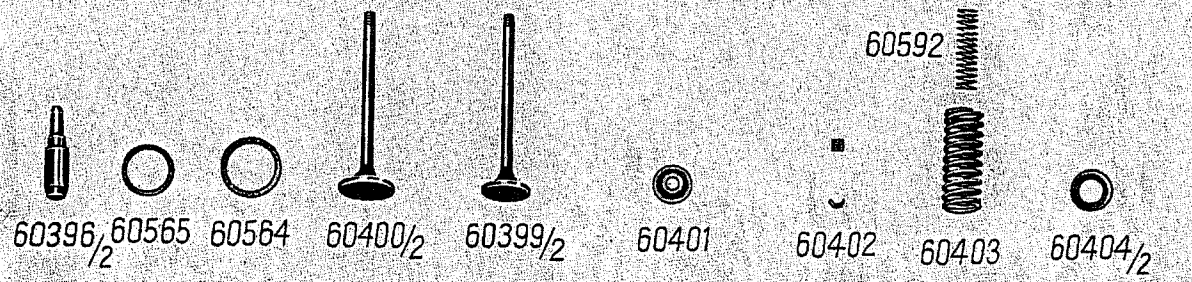


Part no.	No. req. per Engine			Weight each kg	Designation
	G 105	2 G 105	3 G 105		
60389/2	1	2	3	1.500	1) Piston with rings
60390	1	2	3	0.500	Gudgeon pin
60391	2	4	6	0.005	Circlip 38i
60392/2	1	2	3	0.030	Piston ring
60392	1	2	3	0.030	Piston ring
60392 A	1	2	3	0.030	Scraper ring
60393	1	2	3	0.040	Oil ring
31067/2	1	2	3	2.500	Connecting rod compl. w. big end bearing, bush, bolts, and nuts
31068	1	2	3	0.090	Big end bearing (1 set=2/2)
31068 A					Big end bearing 0.5 mm undersize
31068 B					Big end bearing 0.8 mm undersize
31068 C					Big end bearing 1.2 mm undersize
60394	1	2	3	0.090	Bush for gudgeon pin
31070	2	4	6	0.120	Connecting rod bolt with nut
31418	2	4	6	0.020	Nut for connecting rod bolt

1) Spare part No. 60389/2 replaces direct spare part No. 60389 (not illustrated)

6171/3	1			14.000	Cylinder head with studs, valve guides (without valves), and pre-combustion chamber
60395/2		1		29.500	Cylinder head with studs, valve guides (without valves), and pre-combustion chambers
80000/3			1	34.400	Cylinder head with studs, valve guides (without valves), and pre-combustion chambers
31392	2	3	4	0.010	Expansion plug - 27 ϕ
31087	1	2	3	0.170	Stud for cover - $\frac{3}{8}$ " $\times$ 134 mm
31088	1	2	3	0.010	Nut for stud - $\frac{3}{8}$ "
8196		2	3	0.070	Clamp for air inlet and exhaust manifold
8195		2	3	0.120	Stud for air inlet and exhaust manifold - $\frac{1}{2}$ " no. 55
6044		2	3	0.030	Nut for stud - $\frac{1}{2}$ "
60397/2		2	3	0.020	Leading-in bush for fuel oil pressure pipe
60398/2		4	6	0.020	2) Leading-in bush for push rod
60398/3		4	6	0.025	2) Leading-in bush for push rod (not ill.)
60387/2		1	2	0.170	Return pipe for lubricating oil
60413		2	4	0.003	Gasket for return pipe
85089	1				Return pipe for lubricating oil
6166	1			0.700	Exhaust flange
6028	1			0.005	Gasket for exhaust flange
6200	2			0.060	Set screw for exhaust flange - $\frac{1}{2}$ " $\times$ 40 mm
6201	2			0.002	Spring washer - $\frac{1}{2}$ " - for 6200

2) Spare part No. 60398/2 is used for
2 G 105 until engine No. 76173
3 G 105 until engine No. 60552
- also see item 3, page 11



Part no.	No. req. per Engine			Weight each kg	Designation
	G 105	2 G 105	3 G 105		
60396/2	2	4	6	0.095	1) Valve guide
60654	1	2	3	0.040	2) Valve seat (inlet)
60565	1	2	3	0.020	2) Valve seat (exhaust)
60399		2	3	0.175	2) Valve (exhaust) (not ill.)
60400		2	3	0.210	2) Valve (inlet) (not ill.)
60399/2	1	2	3	0.175	2) Valve (exhaust)
60400/2	1	2	3	0.210	2) Valve (inlet)
60401	2	4	6	0.040	Valve spring guide
60402	2	4	6	0.005	Conical retaining spring ring
60403	2	4	6	0.090	Valve spring, outer
60592	2	4	6		2) Valve spring, inner
60404	2	4	6	0.008	2) Disc plate for valve spring (not ill.)
60404/2	2	4	6	0.008	2) Disc plate for valve spring
60470	2	4	6	0.260	Rocker arm with wearing shoe (inlet and exhaust)
31080	2	4	6	0.012	Adjusting screw and nut for rocker arm
60424	2	4	6	0.010	Wearing shoe for rocker arm
60023	2	4	6	0.020	Bush for rocker arm
60467/2	1			0.400	Stanchion for rocker arm
60467		2	3	0.400	Stanchion for rocker arm
31086	1			0.025	Set screw for stanchion – $\frac{3}{8}$ " $\times$ 20 mm
85036	1			0.160	Rocker shaft with overpressure valve
60405/2		1		0.400	Rocker shaft with overpressure valve
80304/2			1	0.650	Rocker shaft with overpressure valve
31447	1	1	1	0.001	Valve flap for overpressure valve
31448	1	1	1	0.001	Spring for overpressure valve
31449	1	1	1	0.010	Banjo bolt for overpressure valve
60024	1	4	6	0.002	Circlip 22 u
60296	1	1	1	0.001	Screw DIN 427 – 3MG $\times$ 8 mm
60386	2	4	6	0.006	Thrust washer for rocker arm
31373	1	2	3	0.005	Gasket for pre-combustion chamber
60001	1	2	3	0.300	Pre-combustion chamber
60334	1	2	3	0.008	Gasket for nozzle and nozzle nut (fuel valve)
1) Replaces direct spare part No. 60396 (not illustrated)					
2) Spare part Nos. 60399, 60400, 60404 – used for engine types					
2 G 105 until engine No. 76418					
3 G 105 until engine No. 60652					
Spare part No. 60404 used for engine type G 105 until engine No. 26090					
Spare part Nos. 60399/2, 60400/2, 60404/2, 60564, 60565, 60592 – used for					
2 G 105 from engine No. 76419					
3 G 105 from engine No. 60653					
Spare part No. 60404/2					
Spare part No. 60592					
used for engine type G 105 from engine No. 26091					
6190/3	1			3.300	Cover for cylinder head
31117/4		1		2.100	Cover for cylinder head
80001/2			1	3.000	Cover for cylinder head
85011		2	3	0.010	Bush for valve lifter
85012	1	2	3	0.025	Valve lifter
6193/2	1	2	3	0.005	Spring for valve lifter – 1.5 ϕ
6167/2	1	2	3	0.070	Valve lifting handle
6169/2	1	2	3	0.007	Slotted screw 6 ϕ $\times$ 30 mm
6221	1			0.005	Gasket for cover for cylinder head
6202	1			0.014	Nut for cover – $\frac{3}{8}$ "
31119/2		1		0.013	Gasket for cover for cylinder head
51119/2			1	0.017	Gasket for cover for cylinder head
31118/2		2	3	0.020	Cap nut for cover for cylinder head – $\frac{3}{8}$ "
31194		2	3	0.005	Washer for cap nut – $\frac{3}{8}$ "
31046/2		1	1	0.130	Oil filler cover
32157/2		1	1	0.010	Gasket for oil filler cover
31430/3		1		0.035	Breather pipe
31430/4			1	0.045	Breather pipe

 31393  85035  6023  31391  6090  31049  7092  31343  31051

 6220  6083  31032  6006  31033  31037  31036  6007  6593  31034  31035

 31391  31392  31393  31395  31036

 31048  31049  31050  31051  31052  31054  31055

 31056  31057  85005  31259  51484

 85006  85007  85008  85009

 85010  31453  31058  51058

Part no.	No. req. per Engine			Weight each kg	Designation
	G 105	2 G 105	3 G 105		
31393	1			0.015	Expansion plug for push rods – 34 ϕ
85035	1			0.004	Expansion plug for oil suction channel – 20 ϕ
6023	1			0.085	Expansion plug for camshaft – 75 ϕ
31391	1			0.003	Expansion plug for oil filter – 15 ϕ
6090	2			0.013	Set screw for fuel pump – $\frac{5}{16}$ " $\times$ 20 mm
31049	2			0.001	Spring washer for set screw – $\frac{5}{16}$ "
7092	4			0.020	Stud for oil pump – $\frac{5}{16}$ " no. 12
31343		4	4	0.025	Stud for oil pump – $\frac{5}{16}$ " no. 15 $\frac{1}{2}$
31051	4	4	4	0.007	Nut $\frac{5}{16}$ "
6220	1			0.025	Pipe plug for oil channel in end cover – $\frac{1}{4}$ " RG
6083	1			0.001	Gasket for pipe plug – 18/13.2 ϕ $\times$ 2 mm
31032		1	1	0.045	Pipe plug for oil channel in end cover
6006	1			0.040	Pipe plug for oil channel in crank case – $\frac{3}{8}$ " RG
31033		1	1	0.020	Unbrako pipe plug for oil channel in crank case – $\frac{3}{8}$ " RG $\times$ $\frac{9}{16}$ "
31037	1	1	1	0.001	Gasket for pipe plug 17/22 ϕ $\times$ 1.5 mm
31036		1	1	0.002	Gasket for pipe plug in end cover – 21/26 ϕ $\times$ 1.5 mm
6007	1			0.012	Set screw for oil channel in crank case – $\frac{5}{16}$ " $\times$ 15 mm
6593	1			0.001	Gasket for set screw – 13/8 ϕ $\times$ 2 mm
31034		1	1	0.110	Drain plug (lub. oil)
31035		1	1	0.001	Gasket for drain plug 33/40 ϕ $\times$ 1.5 mm
31391		1	1	0.003	Expansion plug for oil channel in end cover – 15 ϕ
31392		2	3	0.010	Expansion plug for oil channel in crank case – 27 ϕ
31393		1	1	0.015	Expansion plug for lining for camshaft – 34 ϕ
31395		4	4	0.045	Plug for oil channel
31036		4	4	0.002	Gasket for plug for oil channel – 21/27 ϕ $\times$ 2 mm
31048		2	3	0.010	Guide screw for fuel pump push rod – $\frac{5}{16}$ " $\times$ $\frac{7}{8}$ "
31049		2	3	0.001	Spring washer – $\frac{5}{16}$ "
31050		4	6	0.009	Stud for fuel pump – $\frac{5}{16}$ " $\times$ 35 mm
31051		4	6	0.007	Nut $\frac{5}{16}$ "
31052		1	1	0.260	Lining for camshaft
31054	1	1	1	0.001	Gasket for oil suction line
31055	1	1	1	0.001	Gasket for oil delivery line
31056		4	4	0.015	Stud for cover with spreader for cooling water $\frac{3}{8}$ " no. 20
31057		4	4	0.010	Nut $\frac{3}{8}$ "
85005		1	1	0.015	Pipe plug for fuel oil overflow pipe – $\frac{1}{8}$ "
31259		1	1	0.002	Rubber plug for throttle control
51484		2	3	0.005	Unbrako-pipe plug for crank case – $\frac{1}{8}$ " $\times$ $\frac{3}{8}$ ", type P
85006		1	1	0.040	Cover
85007		1	1	0.003	Gasket for cover 85006
85008		3	3	0.006	Set screw for cover – $\frac{1}{4}$ " $\times$ 10 mm
85009		3	3	0.001	Packing ring for set screw – 6.8/12 ϕ $\times$ 1.5 mm
31453		1		0.090	Extension – GF no. 527 – $\frac{1}{4}$ " RG $\times$ 105 mm
31058		1		0.065	Drain cock for coolant – DIN 71401 – $\frac{1}{4}$ " RG
85010		1		0.030	Round elbow – GF no. 121 – $\frac{1}{4}$ " RG
51058			1	0.150	Drain cock – DIN 71401 – $\frac{3}{8}$ " RG

} only used for
engine without
priming pump



8427



8426



8537



8538



8538/2



6581



85054



85058



6083



85059



85060



6231



6459



6429



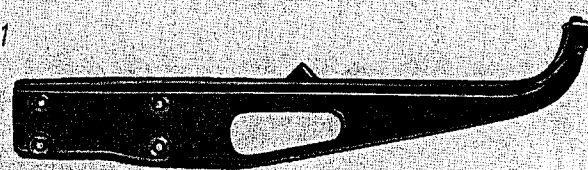
6449



6033



6445



8532/2



85061



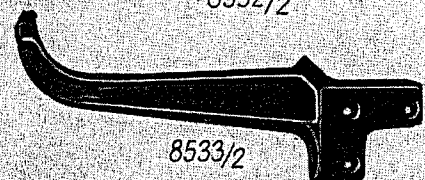
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85062



85064



8533/2



85055



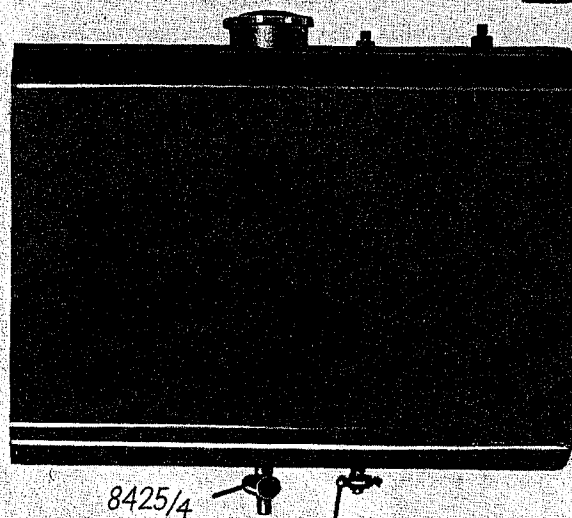
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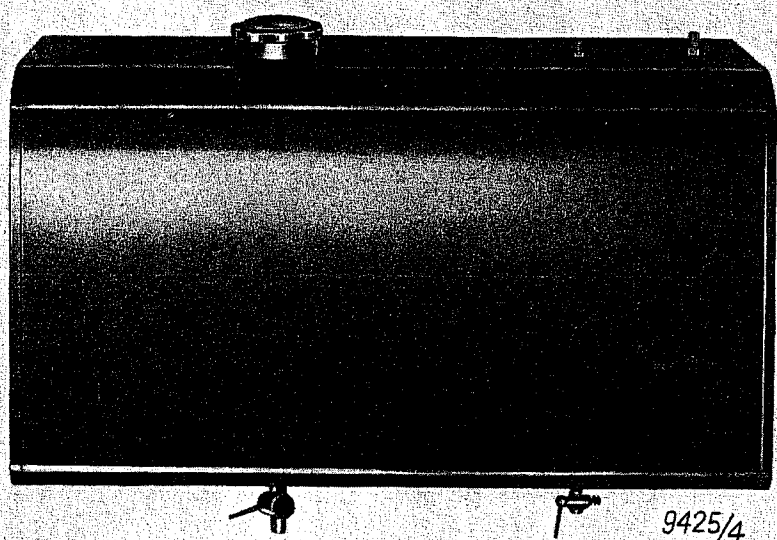
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6425/2



8425/4



9425/4



8428

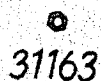
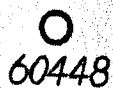
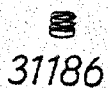
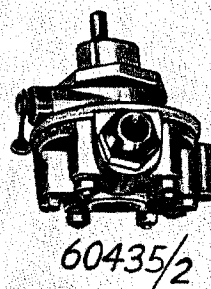
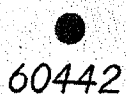
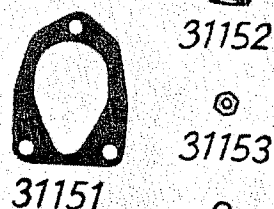
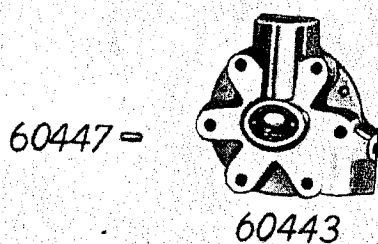
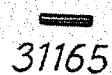
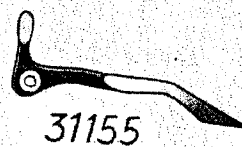
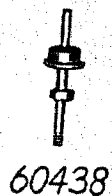
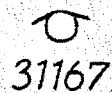
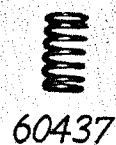
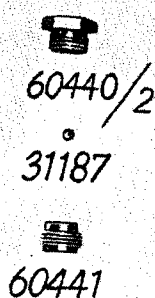
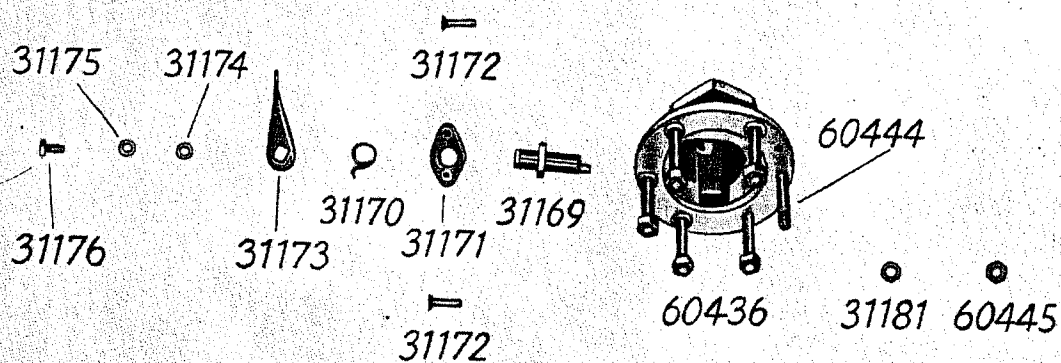


6428/2



85091

Part no.	No. req. per Engine			Weight each kg	Designation
	G 105	2 G 105	3 G 105		
6425/2	1			3.200	Fuel oil tank – complete – with filter
8425/4		1		8.200	Fuel oil tank – complete
9425/4			1	10.000	Fuel oil tank – complete
8427	1	1	1	0.035	Strainer for tank
8426	1	1	1	0.320	Cover for tank
8537	1	1	1	0.005	Gasket for cover
8538	1			0.013	Hexagon nipple for overflow – 1/8" RG – 22R5
8538/2		1	1	0.022	Hexagon nipple for overflow – 1/8" RG – 22R2
6581	1	1	1	0.001	Gasket for hexagon nipple – 10/14 ϕ $\times$ 1.5 mm
85054	1	1	1	0.070	Drain cock for condensation water – 1/8" RG
6581	1	1	1	0.001	Gasket for drain cock – 10/14 ϕ $\times$ 1.5 mm
85058		1	1	0.030	Hexagon nipple for overflow – 1/4" RG $\times$ 1/8" RG
6083		1	1	0.001	Gasket for hexagon nipple – 13.2/18 ϕ $\times$ 2 mm
85059		1	1	0.150	Cock for fuel oil tank – 3/8" RG
85060		1	1	0.012	Nut for cock – 3/8" RG
6231		1	1	0.002	Gasket for cock – 17/22 ϕ $\times$ 2 mm
6428/2	1			0.130	Clamping band
85091	1				Clamping band
6459	2	2	2	0.010	Supporting block
6429	2			0.020	Clamping screw
6449	2			0.020	Set screw – 3/8" $\times$ 15 mm
6033	2			0.002	Spring washer – 3/8"
6445	2			0.010	Collar stud
85055	1			0.100	Supporting block for fuel oil tank
85056	2			0.010	Countersunk screw for supporting block – 3/16" $\times$ 55 mm
8532/2		1	1	3.000	Bracket for tank – right
8533/2		1	1	2.200	Bracket for tank – left
85061		7	7	0.018	Stud for bracket – 3/8" no. 22
31057		7	7	0.015	Nut for stud – 3/8"
8428		2	2	0.200	Clamping band
85062		2	2	0.010	Piece of felt
85063		2	2		Countersunk screw – 5/16" $\times$ 60 mm
85064		2	2	0.010	Set screw – 1/4" $\times$ 35 mm



Part no.	No. req. per Engine			Weight each kg	Designation
	G 105	2 G 105	3 G 105		
60435/2		1	1	0.900	C.A.V fuel lift pump DFP 1/5 – complete
31151		1	1	0.001	Gasket for fuel lift pump
31152		3	3	0.005	Stud for fuel lift pump – 1/4" no. 1
31153		3	3	0.005	Nut for stud for fuel lift pump – 1/4"
31154		3	3	0.001	Spring washer – 1/4"
31155		1	1	0.055	Lever, operating
60436		1	1	0.200	Body, feed pump
60437		1	1	0.020	Spring, diaphragm
60438		1	1	0.030	Spindle, diaphragm
31160		2	2	0.005	Diaphragm
60439		2	2	0.003	Washer, plain, for spindle
31163		1	1	0.001	Nut for spindle
31165		1	1	0.005	Pin, fulcrum
31167		1	1	0.001	Spring, lever return
31169		1	1	0.015	Spindle, priming
31170		1	1	0.001	Spring, priming lever
31171		1	1	0.013	Plate, priming spindle stop
31172		2	2	0.001	Screw, fixing stop plate
31173		1	1	0.007	Lever, priming
31176		1	1	0.001	Screw, for priming spindle
31175		1	1	0.001	Spring washer for 31176
31174		1	1	0.001	Washer, plain – for 31176
60440/2		1	1	0.060	Body, delivery valve
31187		1	1	0.005	Ball, steel, 1/4" dia.
60441		1	1	0.025	Seat, delivery valve
31186		1	1	0.001	Spring, valve
60442		1	1	0.001	Disc, valve
60443		1	1	0.250	Cover, diaphragm
60444		6	6	0.010	Stud, cover fixing
31181		6	6	0.001	Spring washer for stud
60445		6	6	0.001	Nut, for cover stud
60446		1	1	0.065	Connection, inlet
60447		2	2	0.001	Dowel
60448		1	1	0.001	Seal ring, inlet connection
60449		1	1	0.060	Plunger, piston



6575



6576



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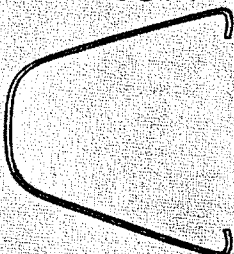
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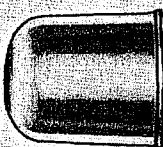
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6586



6589



6594



6592



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6590



6591



6588



6595



6596



32721



31199



31209



31195



31209



31208



31211



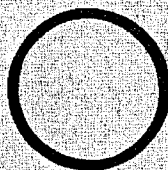
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31209



31208



31207



31201



31202



31203



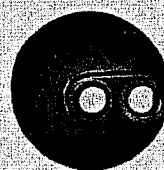
31205



31204



31206



31196

60010

60009



60008



31213



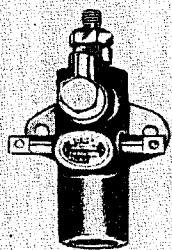
31212



31197

Part no.	No. req. per Engine			Weight each kg	Designation
	G 105	2 G 105	3 G 105		
6250	1			0.700	Fuel oil filter – complete (not ill.)
6575	1			0.045	Nut for fuel oil filter
6576	1			0.002	Packing ring – 27×33×2 mm
6577	1			0.400	Fuel oil filter housing
6578	1			0.005	Valve
6579	1			0.001	Gasket for valve
6580	1			0.015	Union for valve
6581	2			0.001	Packing ring – 10×15×2 mm
6582	1			0.005	Ball handle
6583	1			0.002	Lock nut for valve
6584	1			0.025	Knurled nut
6585	1			0.003	Slotted screw
6586	1			0.010	Clamp
6588	1			0.002	Rubber gasket for filter glass
6589	1			0.100	Filter glass
6590	1			0.010	Stanchion for felt washer
6591	6			0.001	Felt washer
6592	1			0.002	Washer plate
6593	1			0.001	Packing ring 8×13×2 mm
6594	1			0.040	Screw for stanchion
6595	1			0.003	Air escape screw
6596	1			0.001	Packing ring for air escape screw

31192/2	1	1	0.900	Fuel oil filter – complete – (not ill.)
31195	1	1	0.600	Fuel oil filter casing
31197	1	1	0.015	Clamping bolt
31212	1	1	0.002	Spring
31213	1	1	0.002	Disc washer with gasket
60008	1	1	0.145	Filter insert – complete
60009	1	1	0.001	Wire handle for filter insert
60010	1	1	0.001	Felt disc for filter insert
31196	1	1	0.150	Cover
31207	1	1	0.002	Gasket for cover
31203	1	1	0.030	Nut for clamping bolt
31204	1	1	0.001	Packing ring for nut
31201	1	1	0.010	Air escape screw
31205A	1	1		Air escape screw
31205	1	1	0.015	Plug
31202	2	2	0.001	Packing ring for air escape screw
31206	1	1	0.001	Packing ring for plug
31210	1	1	0.010	Drain plug
31211	1	1	0.001	Packing ring for drain plug
31208	2	2	0.003	Banjo bolt
31209	5	5	0.001	Packing ring
31199	1	1	0.010	Plug
32721	2	2	0.030	Set screw for fuel oil filter – $\frac{3}{8}$ " × 25 mm



31128

31139 ○

31137

31140

31142 ○

31141

31148

31147

31131

31149 ○

31133

31132

31143 ○

31144

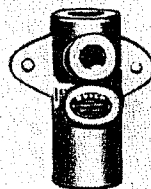
31145 ○

31130

31146 ○



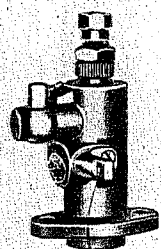
31136



31134

31135 ○

31190



6087

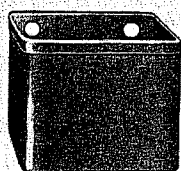


6501

6514 ○ 6515 ○

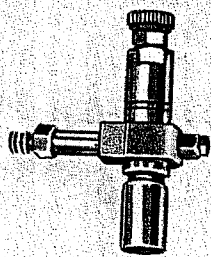
6491 6237 6492

85013

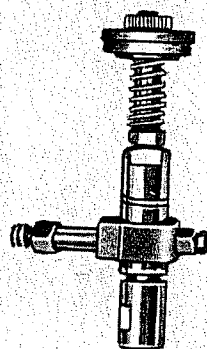


85014

Part no.	No. req. per Engine			Weight each kg	Designation
	G 105	2 G 105	3 G 105		
6087	1			1.000	Fuel pump complete - PF1 A 60 B 03
31128		2	3	1.055	Fuel pump complete - PF1 A 60 BS 333
31130	1	2	3	0.035	Plunger guide
31131	1	2	3	0.055	Fuel pump element
31132	1	2	3	0.030	Control pinion
31133	1	2	3	0.045	Control rack
6501	1			0.600	Fuel pump body
6514	1			0.002	Air escape screw
6515	1			0.001	Packing ring for air escape screw
31134		2	3	0.655	Fuel pump body
31135	2	4	6	0.001	Packing ring
31136	1	2	3	0.025	Banjo bolt
31137	1	2	3	0.075	Delivery valve holder
31139	1	2	3	0.002	Washer
31140	1	2	3	0.002	Delivery valve spring
31141	1	2	3	0.015	Delivery valve with seat
31142	1	2	3	0.002	Packing ring for delivery valve
31143	1	2	3	0.005	Upper spring plate
31144	1	2	3	0.025	Plunger spring
31145	1	2	3	0.005	Lower spring plate
31146	1	2	3	0.002	Circlip
31147	1	2	3	0.010	Pointer for rack 31133
31148	1	2	3	0.005	Screw for pointer
31149					Adjusting washer for pointer - 0.2, 0.5, 1.0 mm
31190	1	2	3	0.025	Banjo bolt
6237	1			0.005	Ball joint for fuel pump
6491	1			0.002	Nut for ball joint - $\frac{3}{16}$ "
6492	1			0.001	Spring washer - $\frac{3}{16}$ "
85013		1	1		Drip pan
85014		2	2	0.005	Round head screw - $\frac{3}{16}$ " $\times$ 8 mm



6187/3



8187/3

31100/2



8573



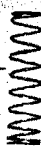
8572/2



8570



8571



31099



31098/3



31363/2



31365-68



31364



60336/2



31094



31105/2



31106

31093



31092/2



60335



31112/2



60408



60407



31110



31101

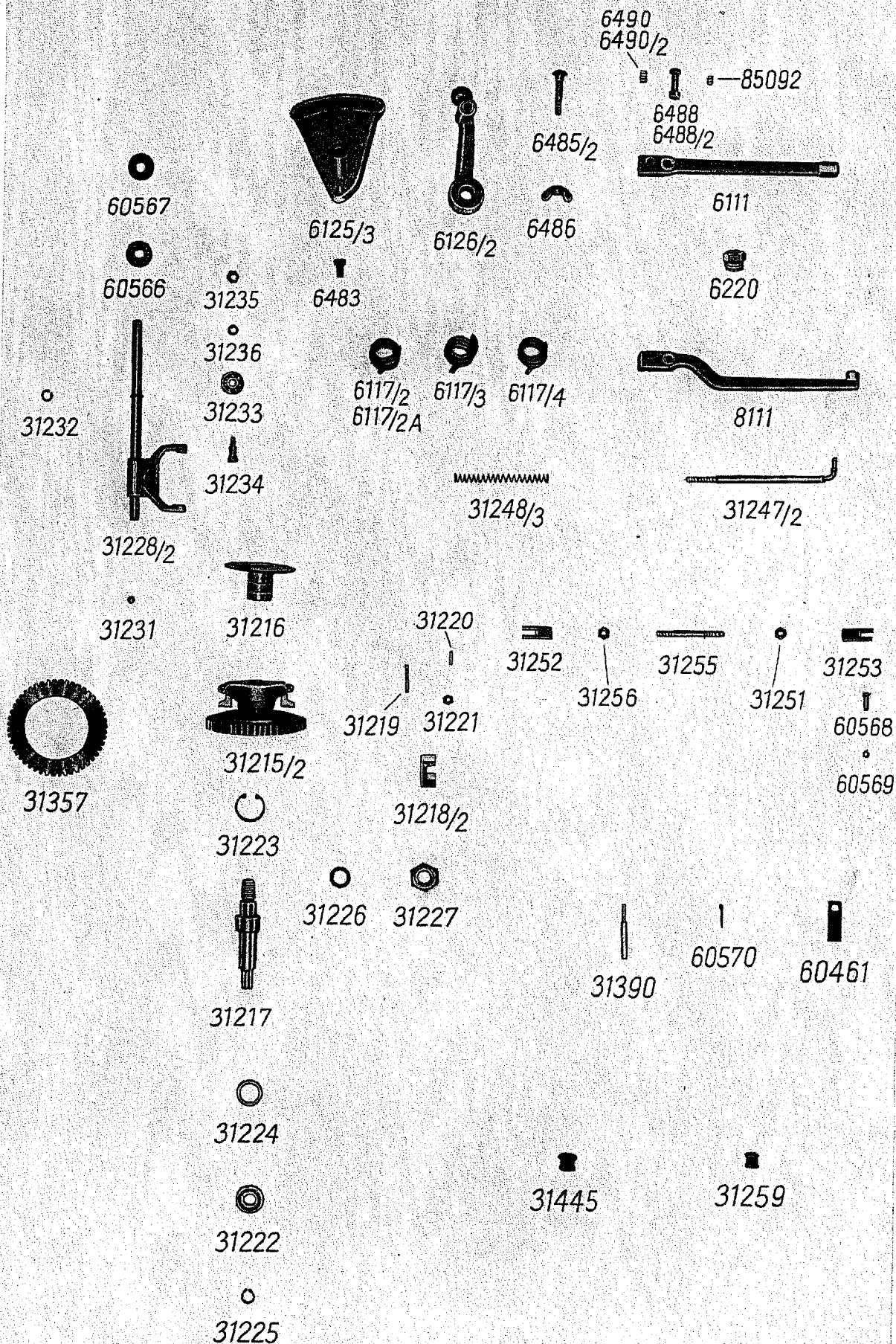


31102

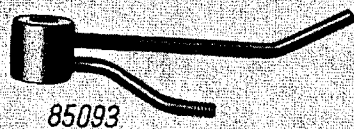
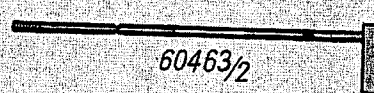
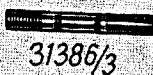
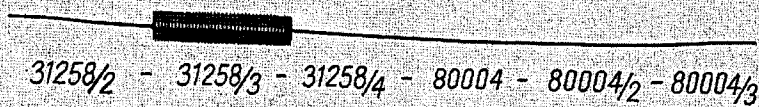
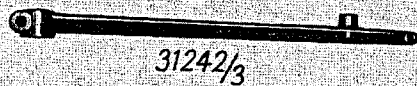
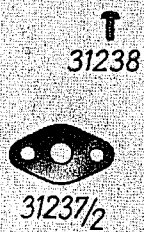


31360

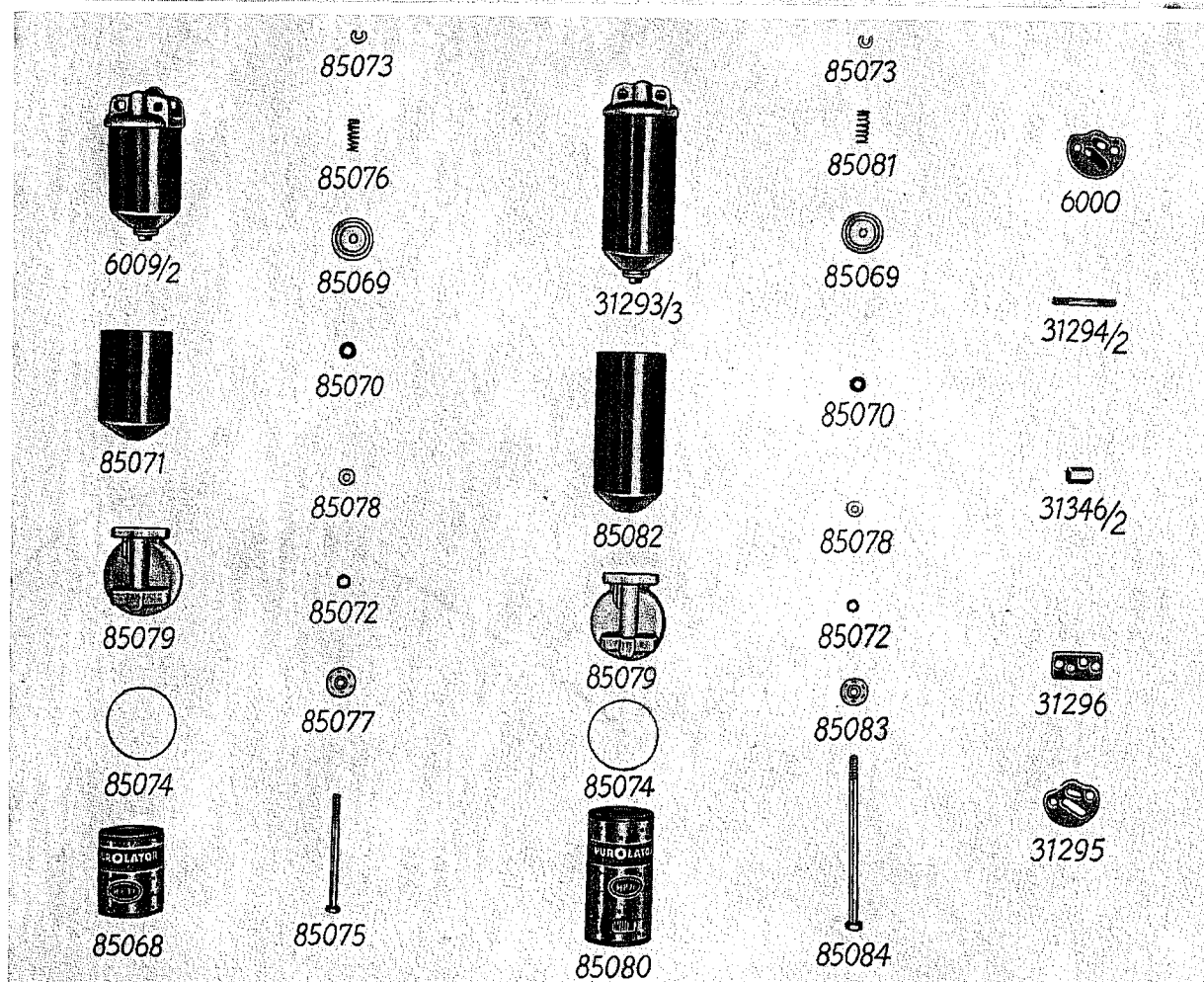
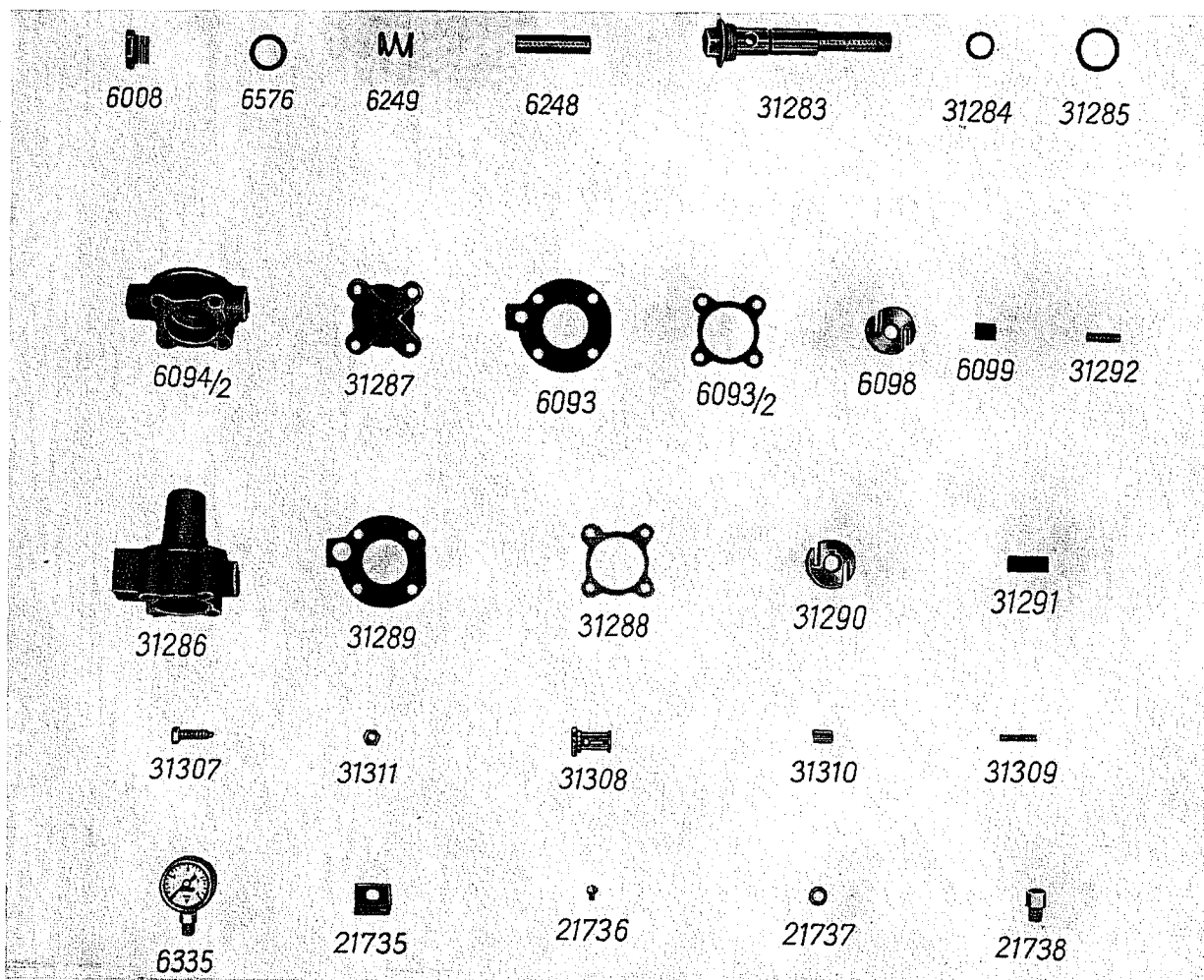
Part no.	No. req. per Engine			Weight each kg	Designation
	G 105	2 G 105	3 G 105		
6187/3	1			0.550	Fuel valve with nozzle – complete
8187/3		2	3	0.570	Fuel valve with nozzle – complete
31093	1	2	3	0.195	Nozzle holder body (not supplied as spare part)
31094	1	2	3	0.010	Spring spindle assembly
60336/2	1	2	3	0.015	Spring
31365	as required				Equalizing washer 0.1 mm
31366	"	"			Equalizing washer 0.2 mm
31366 A	"	"			Equalizing washer 0.25 mm
31367	"	"			Equalizing washer 0.5 mm
31368	"	"			Equalizing washer 1.0 mm
31368 A	"	"			Equalizing washer 2.0 mm
31368 B	"	"			Equalizing washer 3.5 mm
31364	1	2	3	0.005	Screw for fixing equalizing washer
31098/3	1	2	3	0.070	Cap nut
31363/2	1	2	3	0.025	Adjusting screw
31099	1	2	3	0.010	Lock nut
31100/2	1	2	3	0.030	Adjusting nut
31102	1	2	3	0.010	Leak-off union
31101	1	2	3	0.001	Packing ring for 31102
31360	1	2	3	0.004	Screwed connection
31105/2	1	2	3	0.080	Feed pipe with edge filter
31106	1	2	3	0.002	Packing ring for 31105/2
60335	1	2	3	0.050	Nozzle nut
31092/2	1	2	3	0.035	Nozzle
8570		2	3	0.095	Extension for adjusting nut
31110	2	4	6	0.040	Stud for fuel valve – 3/8" no. 29
60407	2	4	6	0.015	Cap nut for stud for fuel valve
31112/2	1	2	3	0.235	Flange for fuel valve
60408	1	2	3	0.020	Washer plate for flange
8573		2	3	0.010	Rubber gasket for extension
8572/2		2	3	0.010	Washer for extension
8571		2	3	0.015	Spring for extension
60334	1	2	3	0.008	Gasket for nozzle and nozzle nut – illustrated on page 16
40109	1	2	3		Gasket for 31363/2 (not ill.)



Part no.	No. req. per Engine			Weight each kg	Designation
	G 105	2 G 105	3 G 105		
31356/2	1	1	1	1.600	Governor complete (not ill.) – consisting of:
31357	1	1	1	0.300	Governor gearwheel
31215/2	1	1	1	0.900	Governor hub with gearwheel and flyweights
31216	1	1	1	0.130	Governor pressure washer – complete
31217	1	1	1	0.250	Governor shaft
31222	2	2	2	0.022	Ball bearing SKF 6001
31223	1	1	1	0.003	Circlip 28 i
31224	1	1	1	0.002	Intermediate ring
31225	1	1	1	0.001	Circlip 12 v
31218/2	2	2	2	0.025	Fly weight
31219	2	2	2	0.003	Pin for fly weight
31220	2	2	2	0.001	Pin for roller
31221	2	2	2	0.003	Roller
31226	1	1	1	0.005	Spring washer – $\frac{5}{8}$ " – for governor shaft
31227	1	1	1	0.055	Nut – $\frac{5}{8}$ " – for governor shaft
31228/2	1	1	1	0.250	Governor spindle with arm
31231	1	1	1	0.005	Steel ball – $\frac{5}{16}$ "
31232	1	1	1	0.001	Spring ring
31233	2	2	2	0.012	Ball bearing SKF R 7
31234	2	2	2	0.007	Bolt for governor arm
31235	2	2	2	0.004	Nut – $\frac{1}{4}$ "
31236	2	2	2	0.001	Spring washer – $\frac{1}{4}$ "
60566	1	1	1	0.020	Ball bearing SKF no. 6000
60567	1	1	1	0.008	Seal ring 10×26×7 BASL
6125/3	1	1	1	0.320	Quadrant
6483	2	2	2	0.008	Round head screw – $\frac{5}{16}$ "×12 mm
6126/2	1	1	1	0.165	Regulating handle
6117/2	1			0.020	Governor spring for 1500 r.p.m.
6117/2 A		1	1	0.020	Governor spring for 1500 r.p.m.
6117/3	1	1	1	0.035	Governor spring for 1800 r.p.m.
6117/4	1	1	1	0.040	Governor spring for 2000 r.p.m.
6485/2	1	1	1	0.012	Coach bolt – $\frac{1}{4}$ "×40 mm
6486	1	1	1	0.010	Wing nut – $\frac{1}{4}$ "
6111	1			0.170	Governor arm
8111		1	1	0.220	Governor arm
6488	1			0.010	Machine bolt – $\frac{1}{4}$ "×25 mm
6488/2		1	1	0.012	Machine bolt – $\frac{1}{4}$ "×30 mm
6490	1			0.007	Unbrako screw – $\frac{1}{4}$ "×10 mm
6490/2		1	1	0.010	Unbrako screw – $\frac{1}{4}$ "×13 mm (for fixing spring)
85092		1	1	0.005	Unbrako screw – $\frac{1}{4}$ "× $\frac{1}{4}$ " (for fixing governor arm)
6220		1	1		Plug for hole for guide pipe – $\frac{1}{4}$ " RG
31247/2		1	1	0.040	Ball joint for governor control
31248/3		1	1	0.005	Spring for no-load running
31253		2	3	0.020	Forked link, right hand thread
31251		2	3	0.005	Nut for forked link, right hand thread
31252		1	1	0.020	Forked link, left hand thread
31256		1	1	0.005	Nut for forked link, left hand thread
31255		1	1	0.010	Connecting rod
60568		2	2	0.005	Circlip bolt
60569		2	2	0.001	Circlip UG 5×0.8
31390		1	1	0.010	Stop pin for throttle control
60570		1	1	0.001	Split pin – 1.5×12 mm
60461		1	1	0.012	Counterweight for stop pin for throttle control
31259		1	1	0.002	Rubber plug for governor spring
31445		1	1	0.002	Rubber plug



Part no.	No. req. per Engine			Weight each kg	Designation
	G 105	2 G 105	3 G 105		
Throttle control, flywheel cover mounted for 2 G 105 and 3 G 105:					
31237/2	1	1	0.035	Flange for throttle control	
31238	2	2	0.010	Round head screw for flange – $\frac{5}{16}$ " $\times$ 12 mm	
31242/3	1	1	0.175	Governor arm	
31243	1	1	0.010	Bolt for governor arm – $\frac{1}{4}$ " $\times$ 25 mm	
85092	1	1	0.002	Pointed screw (Unbrako type WSP) $\frac{1}{4}$ " ϕ $\times$ $\frac{1}{4}$ "	
31260	2	2	0.005	Stop block with screw	
31258/3	1		0.040	Governor spring (1500 r.p.m.)	
31258/2	1		0.040	Governor spring (1800 r.p.m.)	
31258/4	1		0.040	Governor spring (2000 r.p.m.)	
80004/2		1	0.040	Governor spring (1500 r.p.m.)	
80004		1	0.040	Governor spring (1800 r.p.m.)	
80004/3		1	0.040	Governor spring (2000 r.p.m.)	
31386/3	1	1	0.055	Guide pipe	
31387	1	1	0.010	Pipe nut for guide pipe – $\frac{1}{4}$ " RG	
60463/2	1	1	0.100	Slide for throttle control	
31389	2	2	0.005	Spring pin	
85093	1	1	0.450	Lever for throttle control	
31377	1	1	0.020	Ball for lever	
31378	1	1	0.002	Spacerbushing for ball – AN 10 $\times$ 18K	
85094	1	1	0.120	Screw for lever	
85095	1	1		Washer 34/17.5 ϕ $\times$ 2 mm	
85096	1	1	0.006	Spring washer – B 18 DIN 137	
60465	1	1	0.025	Forked link for throttle control – 8 MG	
60464	1	1	0.025	Forked link for throttle control – 10 MG	
60090	1	1	0.010	Lock nut – 10 MG	
60157	1	1	0.006	Lock nut – 8 MG	
85097	1	1	0.025	Connecting rod for throttle control	
60568	2	2	0.003	Circlip bolt – 8 ϕ $\times$ 22 mm	
60569	2	2	0.001	Circlip – UG 5 $\times$ 0.8	



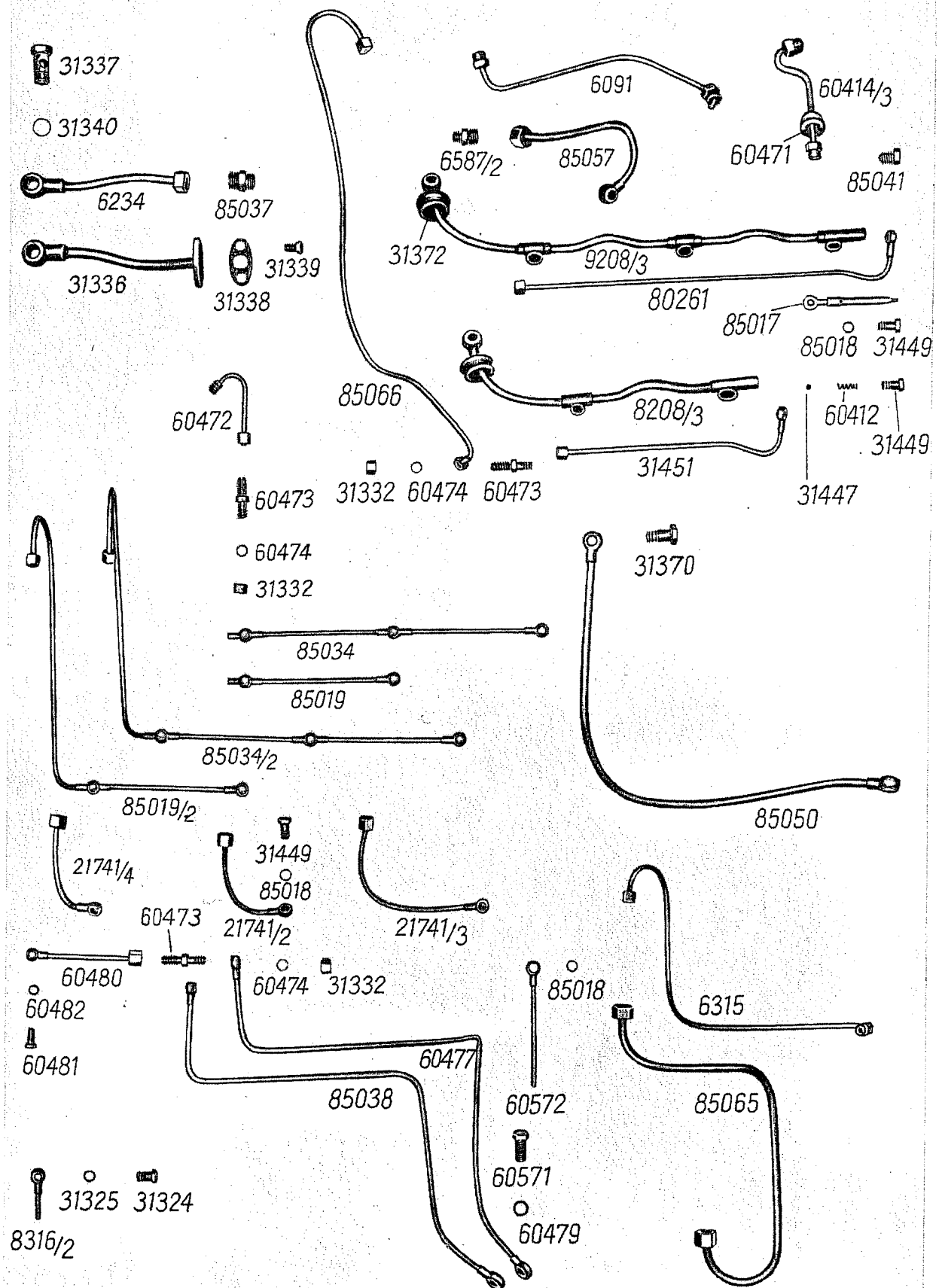
Part no.	No. req. per Engine			Weight each kg	Designation
	G 105	2 G 105	3 G 105		
6248	1			0.010	Lubricating suction filter
6249	1			0.005	Spring for lubricating suction filter
6008	1			0.115	Drain plug for lubricating suction filter – 3/4" RG
6576	1			0.002	Packing ring for drain plug – 33/27 ϕ $\times$ 2 mm
31283		1	1	0.250	Lubricating suction filter
31284		1	1	0.001	Gaco-O-ring R 128
31285		1	1	0.002	Packing ring for suction filter – 33/40 ϕ $\times$ 2 mm
6094/2	1			0.850	Lubricating oil pump casing
31287	1	1	1	0.250	Cover for lubricating oil pump casing
6093	1			0.001	Gasket for lub. oil pump (casing/engine)
6093/2	1			0.001	Gasket for lub. oil pump (casing/cover)
6098	1			0.100	Rotor for lubricating oil pump
6099	2			0.025	Vane for lubricating oil pump
31292	4	4	4	0.001	Spring for vane
31286		1	1	1.200	Lubricating oil casing
31289		1	1	0.001	Gasket for lub. oil pump (casing/engine)
31288		1	1	0.001	Gasket for lub. oil pump (casing/cover)
31290		1	1	0.300	Rotor for lub. oil pump
31291		2	2	0.030	Vane for lub. oil pump
31306	1	1	1	0.080	Overflow valve – complete – consisting of
31307	1	1	1	0.020	Adjusting screw for overflow valve
31308	1	1	1	0.050	Bush for overflow valve
31309	1	1	1	0.002	Spring for overflow valve
31310	1	1	1	0.003	Piston for overflow valve
31311	1	1	1	0.005	Nut for overflow valve – 1/8" RG
6335	1	1	1	0.080	Manometer – 1/4" RG – 50 ϕ 0.4 st.
21735	1	1	1	0.025	Angle piece
21736	2	2	2	0.003	Round head screw – 1/4" $\times$ 10 mm
21737	2	2	2	0.001	Packing ring – 13.2/18 ϕ $\times$ 2 mm
21738	1	1	1	0.030	Nipple

6009/2	1			0.700	1) Lubricating oil filter – complete – "Purolator" MF. 3919
31293/3		1	1	1.000	1) Lubricating oil filter – complete – "Purolator" MF. 2637
85068	1			0.055	Purolator micronic element assembly
85080		1	1	0.085	Purolator micronic element assembly
85069	1	1	1	0.015	Bottom element guide
85070	1	1	1	0.001	Seal
85071	1			0.300	Sump
85082		1	1	0.400	Sump
85072	1	1	1	0.001	Sump/Centre bolt seal
85073	1	1	1	0.001	Circlip
85074	1	1	1	0.002	Head seal
85075	1			0.075	Centre bolt
85084		1	1	0.100	Centre bolt
85076	1			0.007	Spring
85081		1	1	0.007	Spring
85077	1			0.030	Collar
85083		1	1	0.030	Collar
85078	1	1	1	0.002	Washer
85079	1	1	1	0.250	Head and relief valve assembly
6000	1	1	1	0.175	Intermediate flange for lub. oil filter
31294/2	2	2	2	0.035	Stud for lub. oil filter – 3/8" no. 38
31346/2	2	2	2	0.040	Nut for stud – 3/8"
31295	1	1	1	0.001	Gasket for lub. oil filter
31296	1	1	1	0.001	Gasket for lub. oil filter

1) Spare part No. 6009/2 introduced into the engine production for G105 from engine No. 26011

Spare part No. 31293/3 introduced into the engine production for
2 G 105 from engine No. 76579
3 G 105 from engine No. 60653

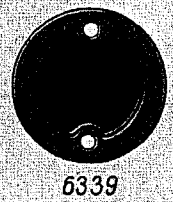
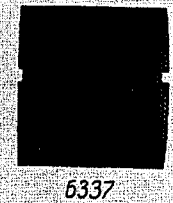
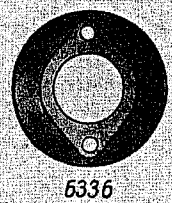
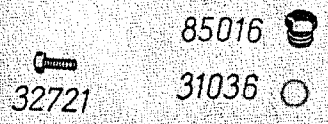
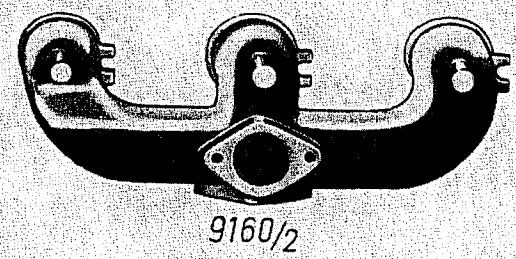
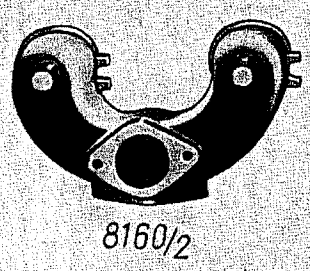
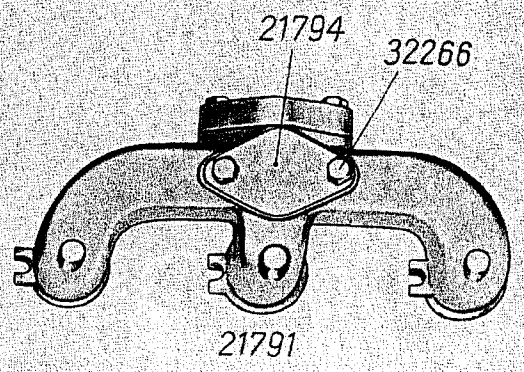
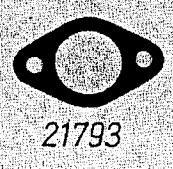
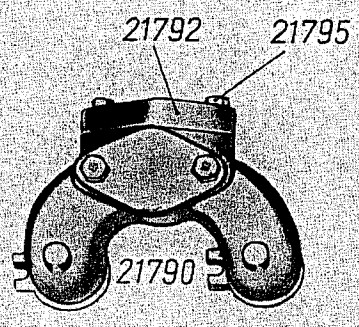
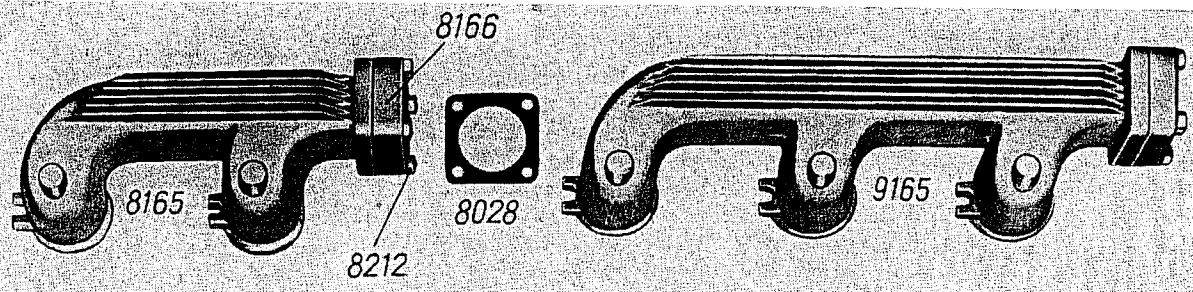
For the engine types 1-3 G 105 with serial numbers before above mentioned is used lubricating oil filter complete spare part No. 6009 (Vokes), see illustration and spare part specification page 51.



Part no.	No. req. per Engine			Weight each kg	Designation
	G 105	2 G 105	3 G 105		
6234	1			0.150	Lubricating oil pressure pipe
31336		1	1	0.180	Lubricating oil pressure pipe
31337	1	1	1	0.060	Banjo bolt
85037	1			0.050	Hexagon nipple - 3/8"
31339		2	2	0.010	Set screw for lubricating oil pressure pipe - 5/16" x 15 mm
31338		1	1	0.001	Gasket for lubricating oil pressure pipe
31340	3	2	2	0.001	Gasket for lubricating oil pressure pipe - 22/17 ϕ x 2 mm
6091	1			0.113	Fuel oil pressure pipe
8208/3		1		0.220	Fuel oil feed pipe, inner
9208/3			1	0.300	Fuel oil feed pipe, inner
85017		1			Air receiver
31449		1		0.010	Banjo bolt for air receiver
85018		2	1	0.001	Packing ring - 10.2/13.9 ϕ x 1 mm
85041			1	0.020	Set screw MFG 10x10
31372		1	1	0.010	Plug for lead-in of fuel oil pipe
60414/3		2	3	0.085	Fuel oil pressure pipe - complete
60471		2	3	0.006	Plug for lead-in of fuel oil pressure pipe
60472		2	3	0.035	Fuel oil overflow pipe for nozzles
60473		2	3	0.030	Leading-in nipple
60474		6	9	0.001	Packing ring for leading-in nipple - 10.2x14x1 mm
85019		1		0.045	Fuel oil overflow pipe (nozzles/tank)
85034			1	0.075	Fuel oil overflow pipe (nozzles/tank)
85019/2		1		0.115	Fuel oil overflow pipe (nozzles/tank, mounted on engine)
85034/2			1	0.150	Fuel oil overflow pipe (nozzles/tank, mounted on engine)
31332		2	3	0.010	Cap nut
85038	1			0.200	Lubricating oil pipe (end cover/cylinder head)
60477		1	1	0.180	Lubricating oil pipe (end cover/cylinder head)
60571	1	1	1	0.030	Banjo bolt with plate for lub. oil
60473	1	1	1	0.030	Leading-in nipple
31332	1	1	1	0.010	Cap nut
60474	3	3	3	0.001	Packing ring 10.2/14 ϕ x 1 mm
60479	2	2	2	0.001	Packing ring 13.2/18 ϕ x 2 mm
60480	1	1	1	0.030	Pipe for valve lubricating
60481	1	1	1	0.008	Banjo bolt
60482	2	2	2	0.001	Packing ring - 8.2/12 ϕ x 1 mm
8316/2		1	1	0.015	Fuel oil drain pipe
31324		1	1	0.010	Banjo bolt for fuel oil drain pipe
31325		2	2	0.001	Packing ring - 10/15 ϕ x 1.5 mm
21741/4	1			0.050	Pipe for oil pressure gauge
21741/2		1		0.050	Pipe for oil pressure gauge
21741/3			1	0.060	Pipe for oil pressure gauge
31449	1	1	1	0.015	Banjo bolt
85018	2	2	2	0.001	Packing ring for banjo bolt - 10.2/13.9 ϕ x 1 mm
60572	1	1	1	0.030	Pipe (rocker shaft/oil sump)
85018	2	2	2	0.001	Packing ring - 10.2/13.9 ϕ x 1 mm
85050		1	1	0.200	Fuel oil feed pipe (fuel lift pump/filter)
31370		2	2	0.040	Banjo bolt
60412		1	1	0.001	Spring for overpressure valve
31447		1	1	0.001	Valve flap
31449		1	1	0.010	Banjo bolt for overpressure valve
31451		1		0.060	Pipe (overpressure valve/tank), inner
80261			1	0.080	Pipe (overpressure valve/tank), inner
60473		1	1	0.030	Leading-in nipple
60474		2	2	0.001	Packing ring for leading-in nipple - 10.2/14 ϕ x 1 mm
31332		1	1	0.010	Cap nut
85057	1			0.115	Fuel oil feed pipe (filter/fuel pump)
6587/2	1			0.025	Nipple for fuel oil filter
6315	1			0.090	Fuel oil overflow pipe
85065		1	1	0.200	Fuel oil feed pipe (tank/fuel lift pump)
85066		1	1	0.115	Fuel oil overflow pipe, outer (overpressure valve/tank)

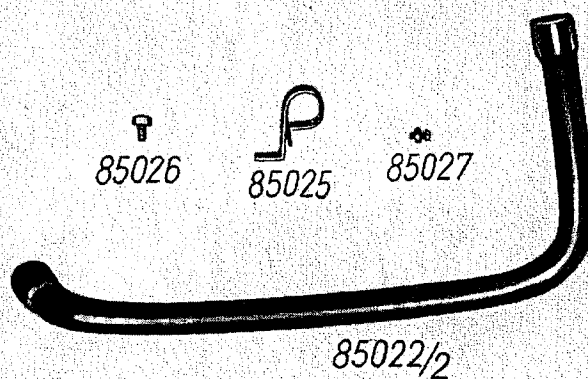
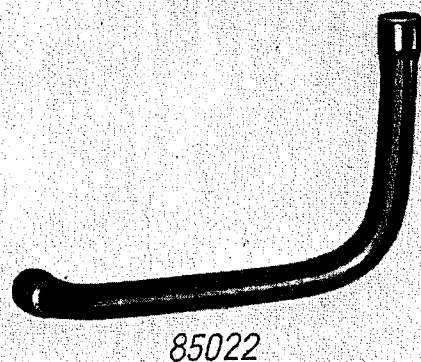
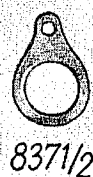
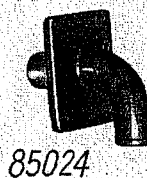
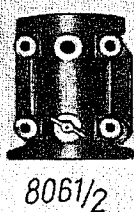
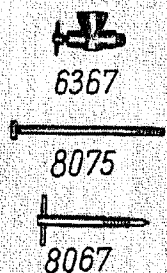
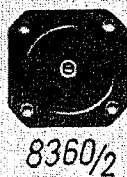
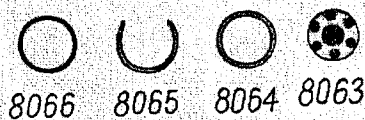
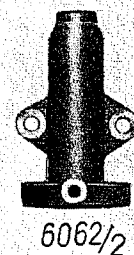
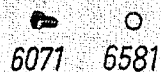
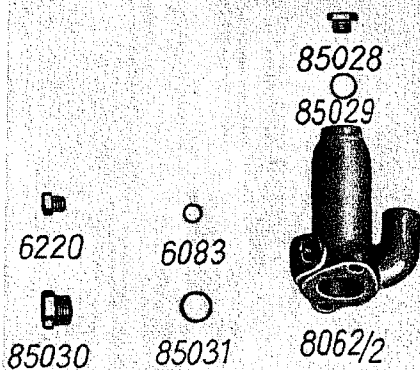
} only used by
engine without
fuel lift pump

} only used for
engine with
fuel lift pump



Part no.	No. req. per Engine			Weight each kg	Designation
	G 105	2 G 105	3 G 105		
8165		1		4.250	Exhaust manifold
9165			1	7.000	Exhaust manifold
8166		1	1	0.600	Exhaust flange
8028		1	1	0.010	Gasket for exhaust flange
8212		4	4	0.030	Set screw for exhaust flange - $\frac{3}{8}$ " $\times$ 40 mm
21790		1		4.000	Exhaust manifold (for marine engines)
21791			1	5.100	Exhaust manifold (for marine engines)
21792		1	1	0.800	Exhaust flange (for marine engines)
21793		2	2	0.012	Gasket (for marine engines)
21794		1	1	0.300	Blind cover (for marine engines)
21795		2	2	0.060	Set screw for exhaust flange $\frac{1}{2}$ " $\times$ 40 mm (for marine engines)
32266		2	2	0.045	Set screw for blind cover $\frac{1}{2}$ " $\times$ 20 mm (for marine engines)
8160/2		1		3.700	Air inlet manifold
9160/2			1	6.850	Air inlet manifold
8161		2	3	0.015	Gasket for air inlet and exhaust manifold
32121		2	3	0.005	Gasket for water outlet pipe
8317/2		1		1.400	Water outlet pipe
9317/2			1	2.500	Water outlet pipe
85016		1	1	0.075	Plug for water outlet pipe
31036		1	1	0.002	Packing ring for plug - $21/27 \times 2$ mm
32122			6	0.020	Set screw - $\frac{5}{16}$ " $\times$ 20 mm
85098	1			1.300	Bend for air inlet filter
32721	2			0.030	Set screw for bend - $\frac{3}{8}$ " $\times$ 25 mm

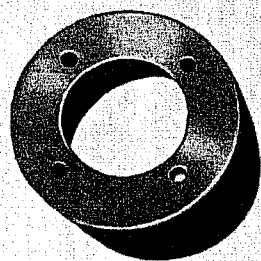
6163/3	1	1	1	0.545	Air inlet filter - complete (not ill.)
6339	1	1	1	0.090	Top flange
6337	1	1	1	0.100	Perforated cylinder
6336	1	1	1	0.076	Bottom flange
6338	1	1	1	0.130	Filter insert
6340	2	2	2	0.075	Bolt for filter - $\frac{3}{8}$ " $\times$ 115 mm



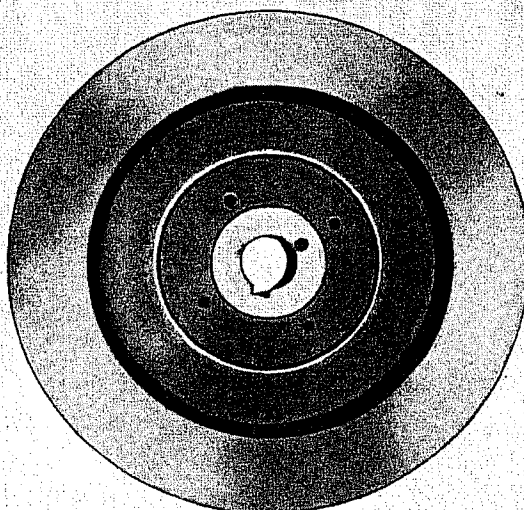
Part no.	No. req. per Engine			Weight each kg	Designation
	G 105	2 G 105	3 G 105		
6252/2	1				1) Cooling water pump – complete
8252/2		1	1		Cooling water pump – complete
8061/2	1	1	1	2.000	1) Cooling water pump housing
8368/3	1	1	1	0.500	1) Suction flange
6062/2	1				Air receiver
8062/2		1	1		Air receiver
8377	2	2	2	0.010	1) Gasket for flange and air receiver
6376	1			0.010	Gasket for air receiver/engine
6071	1			0.015	Pipe plug for air receiver – 1/8" RG
6220		1	1	0.025	Pipe plug for air receiver 1/4" RG
6581	1			0.002	Packing ring for pipe plug – 15/10 ϕ $\times$ 2 mm
6083		1	1	0.002	Packing ring for pipe plug – 18/13.2 ϕ $\times$ 2 mm
6078	4	2	2	0.023	Set screw for air receiver – 3/8" $\times$ 25 mm
8384	2	2	2	0.030	1) Set screw for suction flange – 3/8" $\times$ 35 mm
8370/2	1	1	1	0.950	1) Flanged bearing
8369/2	1	1	1	0.001	1) Gasket for flanged bearing
85020	1	1	1	0.002	1) Seal ring – INA G 18 $\times$ 24 $\times$ 3
6371/2	1				Eccentric strap
8371/2		1	1	0.200	Eccentric strap
8373/3	1	1	1	0.250	1) Guide for diaphragm
8372	1	1	1	0.030	1) Pin for eccentric strap
85021	1	1	1	0.002	1) Slotted pin – 3 ϕ $\times$ 20 mm
8075	4	4	4	0.050	1) Machine bolt for pump housing – 5/16" $\times$ 110 mm
8360/2	1	1	1	0.135	1) Diaphragm with hub
8380	4	4	4	0.003	1) Distance bush for diaphragm
8361/2	1	1	1	0.025	1) Set screw for diaphragm
8063	2	2	2	0.050	1) Suction and pressure valve for cooling water pump – complete
8064	2	2	2	0.005	1) Tightening washer
8065	1	1	1	0.015	1) Distance ring
8066	1	1	1	0.018	1) Retaining ring
8067	1	1	1	0.045	1) Drain cock – complete
6367	1	1	1	0.080	Priming valve
85022		1		0.250	Rubber hose for cooling water
85022/2			1	0.325	Rubber hose for cooling water
85023		2	2	0.030	Retaining ring for rubber hose – 22/38 ϕ
85024		1	1	0.750	Cover with spreader for cooling water
32112		1	1	0.001	Gasket
85025		1	1	0.045	Strap for rubber hose
85026		1	1	0.012	Set screw for strap – 5/16" $\times$ 10 mm
85027		1	1	0.005	Round head screw – 3/16" $\times$ 3/8" – with nut
85028	1	1	1	0.040	Plug for hole for zinc rod – 3/8" RG
85029	1	1	1	0.002	Packing ring for plug – 17/22 ϕ $\times$ 2 mm
85030		1	1	0.075	Plug for hole for by-pass – 1/2" RG
85031		1	1	0.003	Packing ring for plug – 21/27 ϕ $\times$ 2 mm

1) Spare part No. 6252/2 is used for G105 from engine No. 26201 and for the engines with serial numbers from 26146 to 26150.

For engine type G 105 with serial numbers before 26201 except from 26146 to 26150 is used cooling water pump complete, spare part No. 6252, with spare parts to match. See the illustration and spare part specification, page 50.



6415

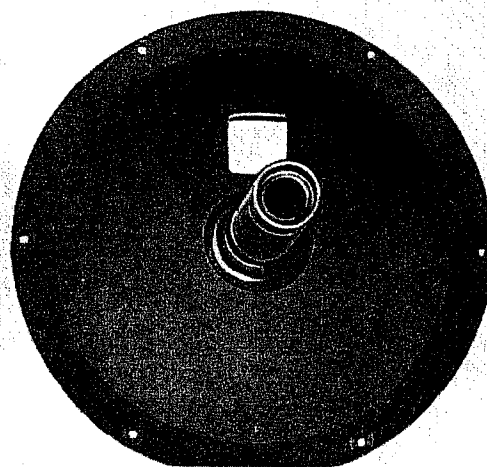


6131/2

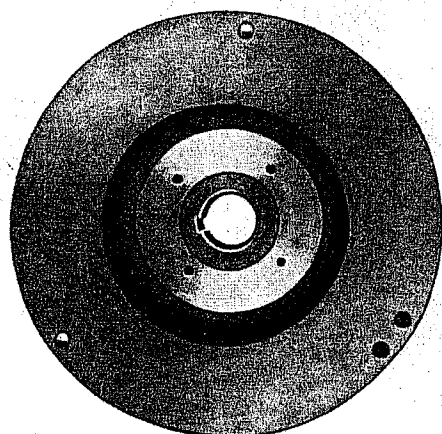
32011 31012 85090



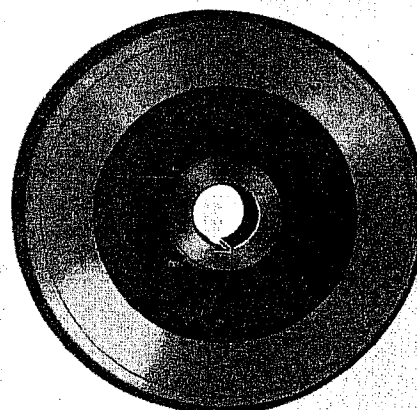
6700/2



8730



6802/3



6802 A/3

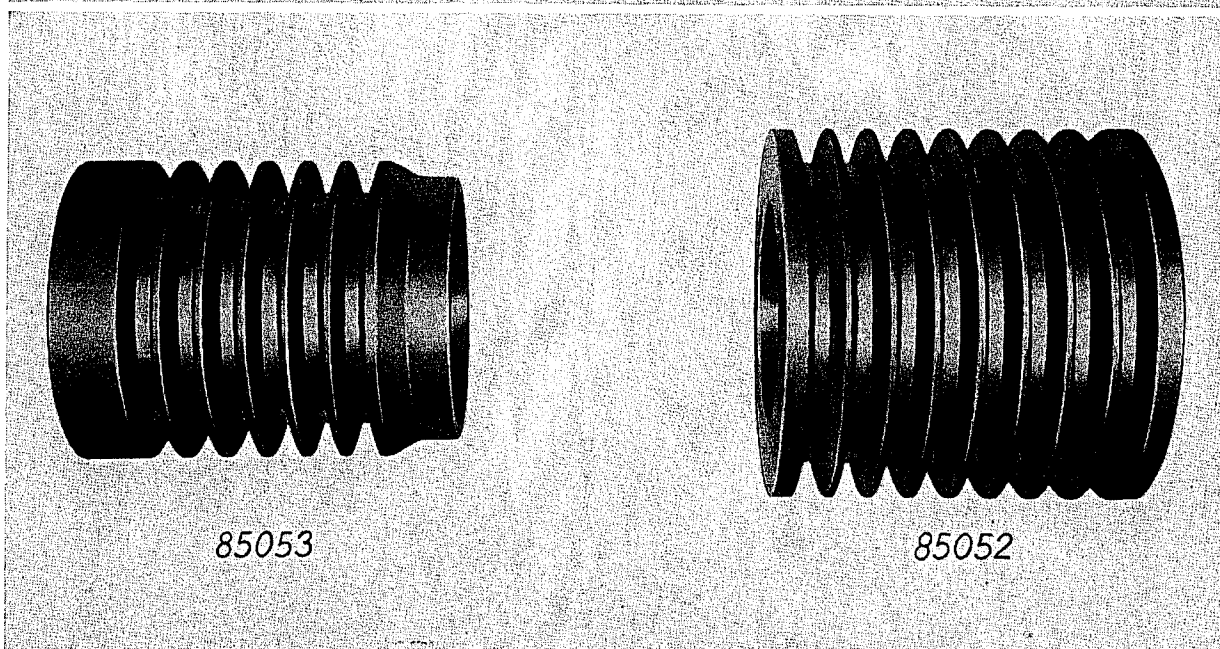
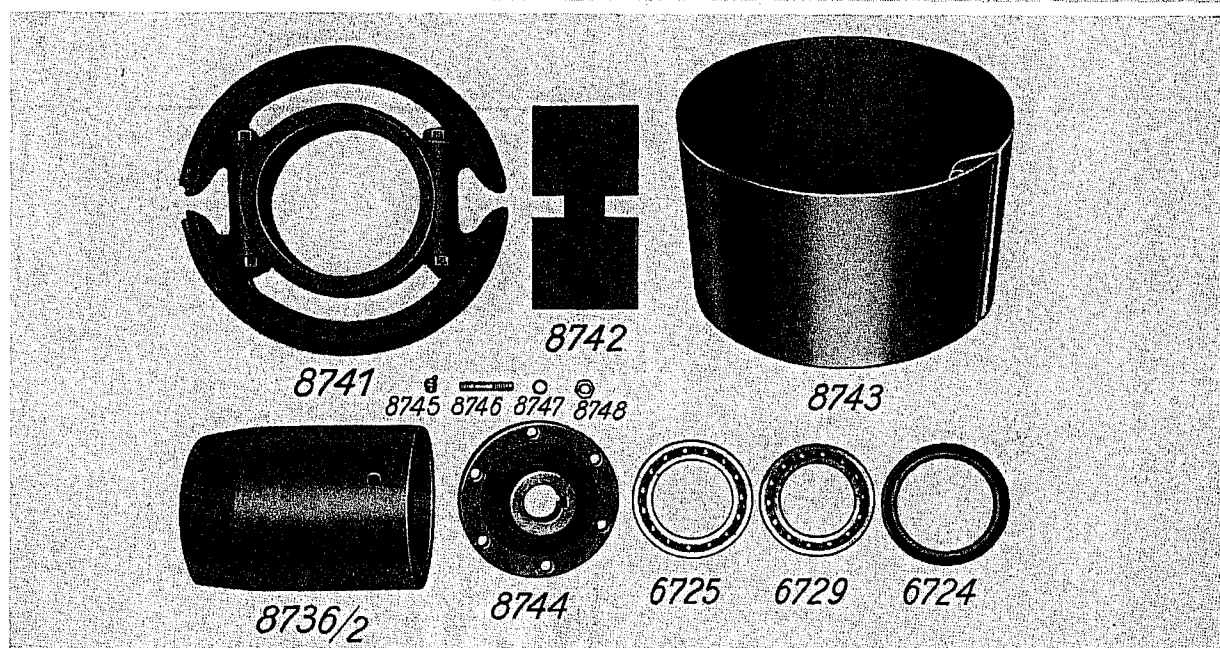
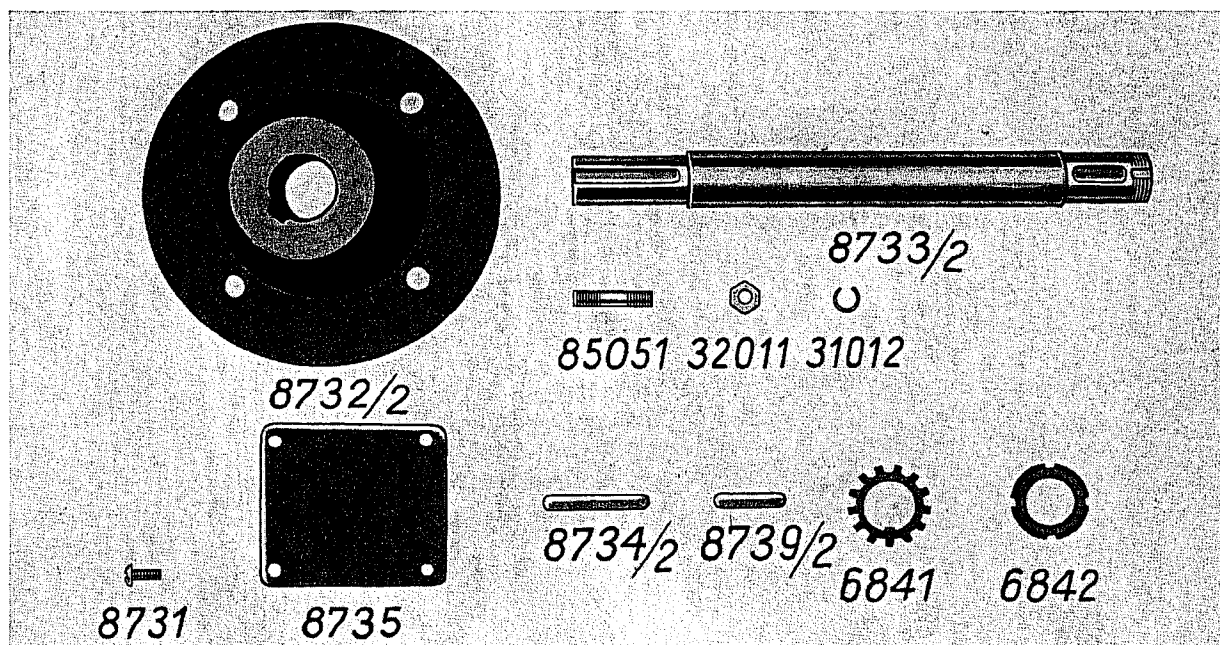
85046 85047



85067

32209 32143 31012

Part no.	No. req. per Engine			Weight each kg	Designation
	G105	2 G105	3 G105		
6415	1			8.000	Belt pulley - 8"
6131/2	1			84.000	Flywheel
85090	4			0.040	Stud - 1/2" no. 42
32011	4			0.030	Nut - 1/2"
31012	4			0.002	Spring washer - 1/2"
6700/2		1	1	32.500	Flywheel cover
85046		8	8	0.050	Unbrako screw - 1/2" x 1 1/2" - type C
85047		8	8	0.003	Spring washer - 1/2"
85067		1	1	0.800	Blind flange for flywheel cover
32209		2	2	0.030	Set screw for blind flange - 3/8" x 35 mm
6802/3		1	1		Flywheel (handstart)
6802 A/3		1	1		Flywheel (electric start)
8730		1	1	20.500	Extension of flywheel cover
32143		6	6	0.050	Set screw for extension - 1/2" x 30 mm
31012		6	6	0.003	Spring washer - 1/2"



Part no.	No. req. per Engine			Weight each kg	Designation
	G105	2 G105	3 G105		
8735		1	1	0.060	Cover for extension
8731		4	4	0.004	Round head screw for cover - $\frac{1}{4}$ " $\times$ 10 mm
85051		4	4	0.050	Stud for coupling flange - $\frac{1}{2}$ " no. 44
32011		4	4	0.020	Nut - $\frac{1}{2}$ "
31012		4	4	0.003	Spring washer - $\frac{1}{2}$ "
8732/2		1	1	6.200	Coupling flange
8733/2		1	1	2.100	Shaft
8734/2		1	1	0.020	Key - 10 $\times$ 8 $\times$ 60 mm
8739/2		1	1	0.015	Key - 10 $\times$ 8 $\times$ 50 mm
6842		1	1	0.040	Nut - SKF KM 7
6841		1	1	0.010	Locking plate - SKF MB 7
8744		1	1	2.000	Driving flange
8746		6	6	0.018	Stud - $\frac{3}{8}$ " no. 23
8748		6	6	0.013	Nut - $\frac{3}{8}$ "
8747		6	6	0.001	Spring washer - $\frac{3}{8}$ "
8745		1	1	0.009	Lubricator nipple - $\frac{1}{8}$ " KS
6729		1	1	0.600	Ball bearing - SKF 6014
6725		1	1	0.615	Ball bearing - SKF 6015
6724		1	1	0.100	Oil seal ring - GACO - MIM 92120
8740		1	1	11.600	Belt pulley in two parts - complete - SKF 300/150 ϕ $\times$ 225 mm consisting of:
8741		1	1	6.200	Cross for belt pulley
8742		1	1	0.600	Balance weight
8743		1	1	4.800	Belt pulley face
8736/2		1	1	7.750	Hub for belt pulley
85053		1		10.000	V-belt pulley - DM 138 ϕ 6 B
85052			1	14.500	V-belt pulley - DM 172.5 ϕ 8 B



6358/2
8358/2



32884

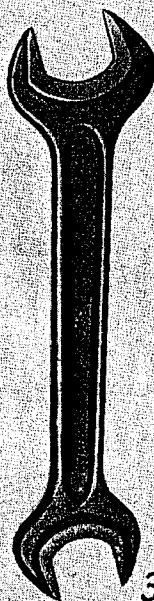


32892



32890

32903



32883



32882



32881



32880



32893

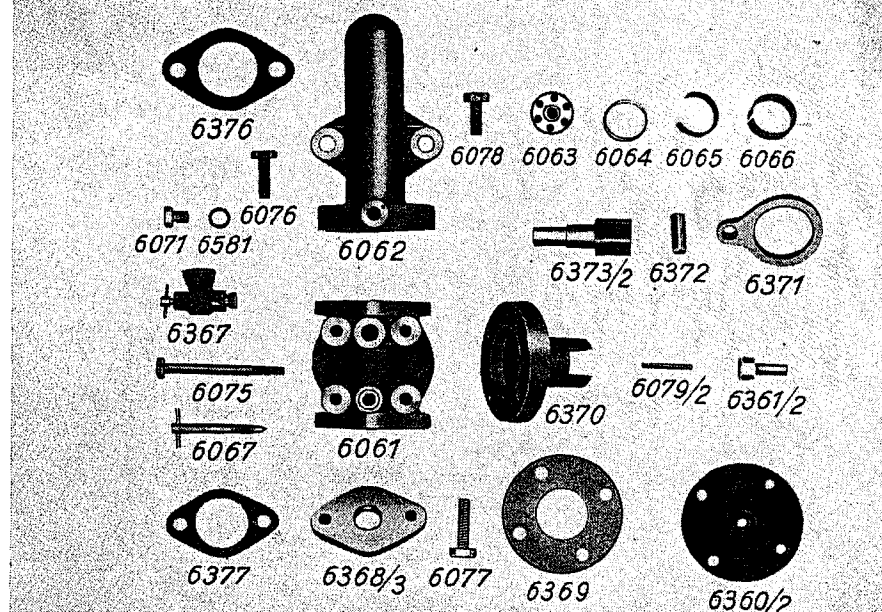
Part no.	No. req. per Engine			Weight each kg	Designation
	G105	2 G105	3 G105		
6358/2	1			0.105	Tool bag containing:
32880	1			0.032	Single-ended spanner 11 mm
32881	1			0.080	Double-ended spanner 14×17 mm
32882	1			0.145	Double-ended spanner 19×22 mm
32883	1			0.400	Double-ended spanner 27×32 mm
32884	1			0.130	Socket spanner 17 mm span of jaw
32892	1			0.120	Screw driver
32903	1				Hexagon spanner for unbrako screw W7
8358/2		1	1	0.165	Tool bag containing:
32880		1	1	0.032	Single-ended spanner 11 mm
32881		1	1	0.080	Double-ended spanner 14×17 mm
32882		1	1	0.145	Double-ended spanner 19×22 mm
32883		1	1	0.400	Double-ended spanner 27×32 mm
32884		1	1	0.130	Socket spanner 17 mm span of jaw
32892		1	1	0.120	Screw driver
32890		1	1	0.090	Hexagon spanner for unbrako screw W10
32893		1	1	0.200	Hand lever for fuel pump
32903		1	1		Hexagon spanner for unbrako screw W7

Part no.	No. req. per Engine			Designation	Ill. page
	G 105	2 G 105	3 G 105		
SET OF GASKETS					
85100	1			Set of gaskets for G 105 as specified in column G 105	
85101		1		Set of gaskets for 2 G 105 as specified in column 2 G 105	
85102			1	Set of gaskets for 3 G 105 as specified in column 3 G 105	
60384	2	4	6	Rubber ring for cylinder liner	7
6162/3	1			Cylinder head gasket	7
60385		1		Cylinder head gasket	7
80267			1	Cylinder head gasket	7
60377		1		Cylinder head gasket	7
80306			1	Cylinder head gasket	7
31341	1	1	1	Gasket for crank case end cover	13
31394	1	1	1	Seal ring (Gaco-O-ring) R 120	13
6027	1			Gasket for side cover	13
6026	1			Gasket for side cover	13
31039		1		Gasket for side cover	13
51039			1	Gasket for side cover	13
31325		10	12	Gasket for set screw for cover – 10/14ϕ×1.5 mm	13
31041		1		Gasket for cover at fuel pumps	13
51041			1	Gasket for cover at fuel pumps	13
31044		1		Gasket for cover for crank case – front side	13
51044			1	Gasket for cover for crank case – front side	13
31325		8	12	Gasket for set screw 31042 – 10/14ϕ×1.5 mm	13
31374		1	1	Gaco-O-ring for dipstick – R 115	13
60413		2	4	Gasket for return pipe	15
6028	1			Gasket for exhaust flange	15
31373	1	2	3	Gasket for pre-combustion chamber	17
60334	1	2	3	Gasket for nozzle and nozzle nut (fuel valve)	17
6221	1			Gasket for cover for cylinder head	17
31119/2		1		Gasket for cover for cylinder head	17
51119/2			1	Gasket for cover for cylinder head	17
32157/2		1	1	Gasket for oil filler cover	17
6083	1			Gasket for pipe plug – 18/13,2ϕ×2 mm	19
31037	1	1	1	Gasket for pipe plug – 17/22ϕ×1.5 mm	19
31036		1	1	Gasket for pipe plug in end cover – 21/26ϕ×1.5 mm	19
6593	1			Gasket for set screw – 13/8ϕ×2 mm	19
31035		1	1	Gasket for drain plug – 33/40ϕ×1.5 mm	19
31036		4	4	Gasket for plug for oil channel – 21/27ϕ×2 mm	19
31054	1	1	1	Gasket for oil suction line	19
31055	1	1	1	Gasket for oil delivery line	19
85007		1	1	Gasket for cover 85006	19
85009		3	3	Packing ring for set screw – 6,8/12ϕ×1,5 mm	19
8537	1	1	1	Gasket for cover	21
6581	1	1	1	Gasket for hexagon nipple – 10/14ϕ×1,5 mm	21
6581	1	1	1	Gasket for drain cock – 10/14ϕ×1,5 mm	21
6083		1	1	Gasket for hexagon nipple – 13,2/18ϕ×2 mm	21
6231		1	1	Gasket for cock – 17/22ϕ×2 mm	21
31151		1	1	Gasket for fuel lift pump	23
60448		1	1	Seal ring, inlet connection	23
6576	1			Packing ring – 27×33×2 mm	25
6579	1			Gasket for valve	25
6581	2			Packing ring – 10×15×2 mm	25
6588	1			Rubber gasket for filter glas	25
6593	1			Packing ring 8×13×2 mm	25
6596	1			Packing ring for air escape screw	25
31207		1	1	Gasket for cover	25
31204		1	1	Packing ring for nut	25
31202		2	2	Packing ring for air escape screw	25
31206		1	1	Packing ring for plug	25
31211		1	1	Packing ring for drain plug	25
31209		5	5	Packing ring	25
6515	1			Packing ring for air escape screw	27

Part no.	No. req. per Engine			Designation	Ill. page
	G 105	2 G 105	3 G 105		
31135	2	4	6	Packing ring	27
31142	1	2	3	Packing ring for delivery valve	27
31101	1	2	3	Packing ring for 31102	29
31106	1	2	3	Packing ring for 31105	29
8573		2	3	Rubber gasket for extension	29
6576	1			Packing ring for drain plug – 33/27 ϕ $\times$ 2 mm	35
31284		1	1	Gaco-O-ring R 128	35
31285		1	1	Packing ring for suction filter – 33/40 ϕ $\times$ 2 mm	35
6093	1			Gasket for lub. oil pump – (casing/engine)	35
6093/2	1			Gasket for lub. oil pump – (casing/cover)	35
31289		1	1	Gasket for lub. oil pump – (casing/engine)	35
31288		1	1	Gasket for lub. oil pump – (casing/cover)	35
21737	2	2	2	Packing ring – 13,2/18 ϕ $\times$ 2 mm	35
85070	1	1	1	Seal	35
85072	1	1	1	Sump/Centre bolt seal	35
85074	1	1	1	Head seal	35
31295	1	1	1	Gasket for lub. oil filter	35
31296	1	1	1	Gasket for lub. oil filter	35
31338		1	1	Gasket for lubricating oil pressure pipe	37
31340	3	2	2	Gasket for lubricating oil pressure pipe – 22/17 ϕ $\times$ 2 mm	37
85018		2	1	Packing ring – 10,2/13,9 ϕ $\times$ 1 mm	37
60474		6	9	Packing ring for leading-in nipple – 10,2 $\times$ 14 $\times$ 1 mm	37
60474	3	3	3	Packing ring 10,2/14 ϕ $\times$ 1 mm	37
60479	2	2	2	Packing ring 13,2/18 ϕ $\times$ 2 mm	37
60482	2	2	2	Packing ring 8,2/12 ϕ $\times$ 1 mm	37
31325		2	2	Packing ring 10/15 ϕ $\times$ 1,5 mm	37
85018	2	2	2	Packing ring for banjo bolt – 10,2/13,9 ϕ $\times$ 1 mm	37
85018	2	2	2	Packing ring – 10,2/13,9 ϕ $\times$ 1 mm	37
60474		2	2	Packing ring for leading-in nipple – 10,2/14 ϕ $\times$ 1 mm	37
8028		1	1	Gasket for exhaust flange	39
21793		2	2	Gasket	39
8161		2	3	Gasket for air inlet and exhaust manifold	39
32121		2	3	Gasket for water outlet pipe	39
31036		1	1	Packing ring for plug – 21/27 $\times$ 2 mm	39
8377	2	2	2	Gasket for flange and air receiver	41
6376	1			Gasket for air receiver/engine	41
6581	1			Packing ring for pipe plug – 15/10 ϕ $\times$ 2 mm	41
6083		1	1	Packing ring for pipe plug – 18/13,2 ϕ $\times$ 2 mm	41
8369/2	1	1	1	Gasket for flanged bearing	41
8064	2	2	2	Tightening washer	41
32112		1	1	Gasket	41
85029	1	1	1	Packing ring for plug – 17/22 ϕ $\times$ 2 mm	41
85031		1	1	Packing ring for plug – 21/27 ϕ $\times$ 2 mm	41
85103	1			Set of gaskets for valve grinding (type G 105)	
85104		1		Set of gaskets for valve grinding (type 2 G 105)	
85105			1	Set of gaskets for valve grinding (type 3 G 105)	
				consisting of:	
6162/3	1			Cylinder head gasket	7
60385		1		Cylinder head gasket	7
80267			1	Cylinder head gasket	7
60377		1		Cylinder head gasket	7
80306			1	Cylinder head gasket	7
60413		2	4	Gasket for return pipe	15
6028	1			Gasket for exhaust flange	15
6221	1			Gasket for cover for cylinder head	17
31119/2		1		Gasket for cover for cylinder head	17
51119/2			1	Gasket for cover for cylinder head	17
8161		2	3	Gasket for air inlet and exhaust manifold	39
32121		2	3	Gasket for water outlet pipe	39

EV. 100

Ta. 10.



Part no.	No. req. per Engine G 105	Weight each kg	Designation
6061	1	1.850	Cooling water pump house
6062	1	2.110	Air receiver
6063	2	0.030	Suction and pressure valve complete
6064	2	0.010	Tightening washer
6065	1	0.004	Distance ring
6066	2	0.005	Retaining ring
6067	1	0.040	Drain cock complete
6071	1	0.015	Screw plug
6075	4	0.039	Machine bolt $\frac{5}{16}$ " $\times$ 85
6076	2	0.013	Set screw $\frac{5}{16}$ " $\times$ 25
6077	2	0.015	Set screw $\frac{5}{16}$ " $\times$ 30
6078	2	0.023	Set screw $\frac{3}{8}$ " $\times$ 25
6079/2	1	0.001	Slotted pin
6252	1	4.200	Cooling water pump complete (not ill.)
6360/2	1	0.060	Diaphragm complete
6361/2	1	0.025	Screw for diaphragm
6367	1	0.120	Priming valve
6368/3	1	0.320	Suction flange
6369	1	0.001	Gasket for flanged bearing
6370	1	0.600	Flanged bearing
6371	1	0.105	Eccentric strap
6372	1	0.020	Pin for eccentric strap
6373/2	1	0.130	Guide for diaphragm
6376	1	0.010	Gasket
6377	2	0.010	Gasket
6581	1	0.002	Gasket for screw plug

Ta. 17.

6009

6011

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6000

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