

Garrett Stationary Engine - Metric Parts List				
Part No	Drg No	Description	Material	Quantity
01	05	Flywheel	Iron casting	1 off
02	06	Engine base	Aluminium casting	1 off
02E	06	Engine base brackets	Aluminium casting	1 off
03	07	Cast crankshaft	Bronze lost wax castings	Two
			11mm dia mild steel	300mm
			16mm dia mild steel	50mm
04	07	Bearing caps	15 x 10mm ms or aluminium	75mm
05	07	Main bearings	20 x 10mm bronze	75mm
06	08	Bearing pedestals	40 x 10mm ms or aluminium	100mm
			20 x 3mm mild steel	120mm
07	08	Oil cup flap	12 x 1mm brass	25mm
08	08	Oil cup hinge	12 x 1mm brass	Part of 07
09	09	Cylinders	Iron castings	2 off
09A	09c	Inlet bush	16mm dia bronze	25mm
09B	09c	Throttle inlet bush	18mm dia bronze	50mm
09C	09c	Valve rod inlet bush	12mm dia bronze	100mm
09D	09c	Exhaust flange	18mm dia stainless steel	50mm
09E	06a	Steam chest flanges	40 x 3mm mild steel	110mm
10	10	Upper slide bars	6mm square mild steel	1275mm
11	10	Lower slide bars	6mm square mild steel	Part of 08
12	10	Valve rod glands	12mm dia brass	25mm
13	10	Valve rod clevis	6mm square mild steel	Part of 10
14	11	Clevis pin	4mm dia mild steel	25mm
15	11	Crosshead slides	12 x 7mm cast iron	100mm
16	11	Crosshead pins	5mm dia mild steel	75mm
17	11	Connecting rods	20 x 7mm mild steel	300mm
18	12	Slide bar bracket	Bronze lost wax casting	2 off

Part No	Drg No	Description	Material	Quantity
19	13	Big end bearing	10 x 8mm bronze	75mm
20	13	Big end cap	6 x 3mm mild steel	50mm
21	13	Low pressure piston	32mm dia cast iron	30mm
22	13	High pressure piston	22mm dia cast iron	Part of 21
23	14	Piston rods	5mm dia stainless steel	200mm
24	14	Piston rod clevis	15 x 10mm mild steel	60mm
25	14	Eccentric sheaves	25mm dia mild steel	70mm
26	14	Eccentric straps	35 x 6mm bronze	75mm
27	15	Eccentric rods	6mm square mild steel	Part of 10
28	15	Steam chest cover	40 x 2.5mm mild steel	250mm
29	15	Cylinder top cover	40 x 2.5mm mild steel	Part of 28
30	16	Piston rod glands	20mm dia bronze	50mm
31	16	Front LP cyl' cover	50mm dia stainless steel	50mm
32	16	Rear LP cyl' cover	50mm dia stainless steel	Part of 31
			12mm dia bronze	Part of 9C
			20 x 8mm mild steel	80mm
33	17	Front HP cyl' cover	40mm dia stainless steel	50mm
34	17	Rear HP cyl' cover	40mm dia stainless steel	Part of 33
			12mm dia bronze	Part of 9C
			20 x 8mm mild steel	Part of 32
35	18	Governor pivot block	5mm square mild steel	25mm
36	18	Spindle weight	15mm dia mild steel	25mm
37	18	Governor spindle 3mm dia mild steel	120mm	
38	18	Governor pivot block	6mm square mild steel	Part of 10
39	18	Governor links	6 x 3mm mild steel	50mm
40	19	Governor arms	5 x 2mm mild steel	75mm

Part No	Drg No	Description	Material	Quantity
41	19	Rocker arms	6mm square mild steel	Part of 10
42	19	Rocker fork	10 x 5mm mild steel	25mm
43	19	Pivot pins	2mm dia mild steel	25mm
			1.5mm dia mild steel	50mm
44	19	Rocker spindle	2.5mm dia mild steel	25mm
45	19	Governor stand	30 x 1.5mm brass	150mm
46	20	Drive pulley	30mm dia mild steel	25mm
47	20	Pulley spacer	5mm dia mild steel	40mm
48	21	Distribution valve	12 x 20mm brass	25mm
49	20	Governor balls	16mm dia mild steel	50mm
			or 16mm dia bronze balls	2 off
50	21	Valve nut	6mm square brass	25mm
51	21	Slide valve nut	6 x 3mm brass	25mm
52	21	Slide valve	20 x 10mm brass	55mm
53	21	Valve rods	3mm dia stainless steel	175mm
54	21	Starting rod	3mm dia stainless steel	Part of 53
55	22	Starting valve gland	16mm dia brass	25mm
56	22	Bracket	25 x 10mm mild steel	25mm
57	22	Bellcrank	lost wax bronze casting	One
58	22	Bellcrank pin	5mm dia mild steel	25mm
59	22	Bell crank pivot pin	6mm dia mild steel	200mm
60	23	Valve rod	5mm square stainless steel	55mm
61	23	Handle frame	40mm dia mild steel	25mm
62	23	Starting handle	10 x 2mm mild steel	50mm
63	23	Cam spindle	16mm dia mild steel	25mm
64	24	Housing	30mm dia mild steel	25mm
65	24	Push rod	6mm square mild steel	Part of 10

Part No	Drg No	Description	Material	Quantity
66	25	Pump body	22 x 16mm brass	50mm
67	26	Pump sleeve	20mm dia brass	50mm
68	26	Pump gland	20mm dia brass	Part of 67
69	26	Valve covers	7mm dia brass	50mm
70	26	Ball valves	4mm dia stainless steel balls	3 off
71	26	Pump ram	8mm dia stainless steel	25mm
72	27	Eccentric rod	6mm dia mild steel	Part of 59
73	27	Gudgeon pin	2mm dia silver steel	25mm
74	27	Throttle valve	6mm dia stainless steel	30mm
75	27	Throttle pivot pin	3mm dia mild steel	Part of 37
76	27	Push rod pin	3mm dia mild steel	Part of 37
77	27	Throttle gland	18mm dia brass	25mm
78	27	Throttle push rod	6mm dia mild steel	Part of 59
79	29	Inlet bush	22mm dia brass	25mm
80	29	Connector	6.35mm stainless steel	50mm
81	29	Inlet pipe	6.35mm copper tube	350mm
82	29	Inlet pipe	6.35mm copper tube	Part of 81
83	29	Lock nuts	8mm hex brass	70mm
84	29	Connector nut	8mm hex brass	Part of 83
85	29	Junction box	25mm dia brass	25mm
86	30	Connector	9.5mm hex brass	50mm
87	30	Nameplate	22 x 1.5mm engraving brass	75mm
88	30	Exhaust pipe	6.36mm copper tube	Part of 81
			18mm dia brass	25mm
89	31	Pulley	50mm dia mild steel	14mm
90	31	Press tool	30 x 25mm mild steel	100mm
			30 x 19mm mild steel	100mm
91	30	Stone base	Aluminium casting	1 off
92	31	Wooden base	184 x 45mm hardwood	450mm

Garrett Stationary Engine - Imperial Parts List				
Part No	Drg No	Description	Material	Quantity
01	05	Flywheel	Iron casting	1 off
02	06	Engine base	Aluminium casting	1 off
02E	06	Engine base brackets	Aluminium casting	1 off
03	07	Cast crankshaft	Bronze lost wax castings	Two
			$\frac{7}{16}$ in. dia mild steel	12in.
			$\frac{5}{8}$ in. dia mild steel	2in.
04	07	Bearing caps	$\frac{5}{8}$ x $\frac{1}{2}$ in. ms or aluminium	3in.
05	07	Main bearings	$\frac{7}{8}$ x $\frac{7}{16}$ in. bronze	3in.
06	08	Bearing pedestals	$1\frac{3}{4}$ x $\frac{3}{8}$ in. ms or aluminium	4in.
			$\frac{7}{8}$ x $\frac{1}{8}$ in. mild steel	5in.
07	08	Oil cup flap	$\frac{1}{2}$ in. x 0.040 in. brass	1in.
08	08	Oil cup hinge	$\frac{1}{2}$ in. x 0.040 brass	Part of 07
09	09	Cylinders	Iron castings	2 off
09A	09c	Inlet bush	$\frac{5}{8}$ in. dia bronze	1in.
09B	09c	Throttle inlet bush	$\frac{3}{4}$ in. dia bronze	2in.
09C	09c	Valve rod inlet bush	$\frac{1}{2}$ in. bronze	4in.
09D	09c	Exhaust flange	$\frac{3}{4}$ in. dia stainless steel	2in.
09E	06a	Steam chest flanges	$1\frac{3}{4}$ x $\frac{1}{8}$ in. mild steel	4 $\frac{1}{2}$ in.
10	10	Upper slide bars	$\frac{1}{4}$ in. square mild steel	50in.
11	10	Lower slide bars	$\frac{1}{4}$ in. square mild steel	Part of 08
12	10	Valve rod glands	$\frac{1}{2}$ in. dia brass	1in.
13	10	Valve rod clevis	$\frac{1}{4}$ in. square mild steel	Part of 10
14	11	Clevis pin	$\frac{5}{32}$ in. dia mild steel	1in.
15	11	Crosshead slides	$\frac{1}{2}$ x $\frac{5}{16}$ in. cast iron	4in.
16	11	Crosshead pins	$\frac{3}{16}$ in. dia mild steel	3in.
17	11	Connecting rods	1 x $\frac{5}{16}$ in. mild steel	12in.
18	12	Slide bar bracket	Bronze lost wax casting	2 off

Part No	Drg No	Description	Material	Quantity
19	13	Big end bearing	$\frac{1}{2}$ in. x $\frac{5}{16}$ in. bronze	3in.
20	13	Big end cap	$\frac{1}{4}$ x $\frac{1}{8}$ in. mild steel	2in.
21	13	Low pressure piston	$1\frac{1}{4}$ in. dia cast iron	$1\frac{1}{4}$ in.
22	13	High pressure piston	$\frac{7}{8}$ in. dia cast iron	Part of 21
23	14	Piston rods	$\frac{3}{16}$ in. dia stainless steel	8in.
24	14	Piston rod clevis	$\frac{5}{8}$ x $\frac{7}{16}$ in. mild steel	2 $\frac{1}{2}$ in.
25	14	Eccentric sheaves	1in. dia mild steel	3in.
26	14	Eccentric straps	$1\frac{1}{2}$ x $\frac{1}{4}$ in. bronze	3in.
27	15	Eccentric rods	$\frac{1}{4}$ in. square mild steel	Part of 10
28	15	Steam chest cover	$1\frac{1}{4}$ x $\frac{3}{32}$ in. mild steel	10 in.
29	15	Cylinder top cover	$1\frac{1}{4}$ x $\frac{3}{32}$ in. mild steel	Part of 28
30	16	Piston rod glands	$\frac{7}{8}$ in. dia bronze	2in.
31	16	Front LP cyl' cover	2 in. dia stainless steel	2in.
32	16	Rear LP cyl' cover	2in. dia stainless steel	Part of 31
			$\frac{1}{2}$ in. dia bronze	Part of 9C
			$\frac{7}{8}$ in. x $\frac{5}{16}$ in. mild steel	$3\frac{1}{4}$ in.
33	17	Front HP cyl' cover	$1\frac{1}{2}$ in. dia stainless steel	2in.
34	17	Rear HP cyl' cover	$1\frac{1}{2}$ in. dia stainless steel	Part of 33
			$\frac{1}{2}$ in. dia bronze	Part of 9C
			$\frac{7}{8}$ x $\frac{5}{16}$ in. mild steel	Part of 32
35	18	Governor pivot block	$\frac{3}{16}$ in. square mild steel	1in.
36	18	Spindle weight	$\frac{5}{8}$ in. dia mild steel	1in.
37	18	Governor spindle	$\frac{1}{8}$ in. dia mild steel	5in.
38	18	Governor pivot block	$\frac{1}{4}$ in. square mild steel	Part of 10
39	18	Governor links	$\frac{1}{4}$ x $\frac{1}{8}$ in. mild steel	2in.
40	19	Governor arms	$\frac{3}{16}$ x $\frac{3}{32}$ in. mild steel	3in.

Part No	Drg No	Description	Material	Quantity
41	19	Rocker arms	¼ in. square mild steel	Part of 10
42	19	Rocker fork	7/16 x 3/16 in. mild steel	1in.
43	19	Pivot pins	3/32 in. dia mild steel	1in.
			1/16 in. dia mild steel	2in.
44	19	Rocker spindle	3/32 in. dia mild steel	1in.
45	19	Governor stand	1 ¼ x 1/16 in. brass	6in.
46	20	Drive pulley	1 ¼ in. dia mild steel	1in.
47	2-	Pulley spacer	3/16 in. dia mild steel	1 ¾ in.
48	21	Distribution valve	½ x 7/8 in. brass	1in.
49	20	Governor balls	5/8 in. dia mild steel	2in.
			or 5/8 in. dia bronze balls	2 off
50	21	Valve nut	¼ in. square brass	1in.
51	21	Slide valve nut	¼ x 1/8 in. brass	1in.
52	21	Slide valve	7/8 x 7/16 in. brass	2 ¼ in.
53	21	Valve rods	1/8 in. dia stainless steel	7in.
54	21	Starting rod	1/8 in. dia stainless steel	Part of 53
55	22	Starting valve gland	5/8 in. dia brass	1in.
56	22	Bracket	1 x 7/16 in. mild steel	1in.
57	22	Bellcrank	lost wax bronze casting	One
58	22	Bellcrank pin	3/16 in. dia mild steel	1in.
59	22	Bell crank pivot pin	¼ in. dia mild steel	8in.
60	23	Valve rod	3/16 in. square stainless steel	2 ¼ in.
61	23	Handle frame	1 ¾ in. dia mild steel	1in.
62	23	Starting handle	7/16 in. x 3/32 in. mild steel	2in.
63	23	Cam spindle	5/8 in. dia mild steel	1in.
64	24	Housing	1 ¼ in. dia mild steel	1in.

Part No	Drg No	Description	Material	Quantity
65	24	Push rod	¼ in. square mild steel	Part of 10
66	25	Pump body	7/8 x 5/8 in. brass	2in.
67	26	Pump sleeve	7/8 in. dia brass	2in.
68	26	Pump gland	7/8 in. dia brass	Part of 67
69	26	Valve covers	5/16 in. dia brass	2 in.
70	26	Ball valves	5/32 in. dia stainless steel balls	3 off
71	26	Pump ram	5/16 in. dia stainless steel	1in.
72	27	Eccentric rod	¼ in. dia mild steel	Part of 59
73	27	Gudgeon pin	3/32 in. dia silver steel	1in.
74	27	Throttle valve	¼ in. dia stainless steel	1 ¼ in.
75	27	Throttle pivot pin	1/8 in. dia mild steel	Part of 37
76	27	Push rod pin	1/8 in. dia mild steel	Part of 37
77	27	Throttle gland	¾ in. dia brass	1in.
78	27	Throttle push rod	¼ in. dia mild steel	Part of 59
79	29	Inlet bush	7/8 in. dia brass	1in.
80	29	Connector	¼ in. stainless steel	2in.
81	29	Inlet pipe	¼ in. copper tube	14in.
82	29	Inlet pipe	¼ in. copper tube	Part of 81
83	29	Lock nuts	5/16 in. hex brass	3 in.
84	29	Connector nut	5/16 in. hex brass	Part of 83
85	29	Junction box	1 in. dia brass	1in.
86	30	Connector	3/8 in. hex brass	2in.
87	30	Nameplate	7/8 in. x 1/16 in. engraving brass	3in.
88	30	Exhaust pipe	¼ in. copper tube	Part of 81
			¾ in. dia brass	1in.
89	31	Pulley	2in. dia mild steel	9/16 in.
90	31	Press tool	1 ¼ in. x 1 in. mild steel	4in.
			1 ¼ x ¾ in. mild steel	4in.
91	30	Stone base	Aluminium casting	1 off
92	31	Wooden base	7 ¼ x 1 ¾ in. hardwood	18in.