

Gem V **Instruction Book** and **Spare Parts List**



THE WORLD'S LARGEST MANUFACTURER OF ROTARY TILLAGE EQUIPMENT

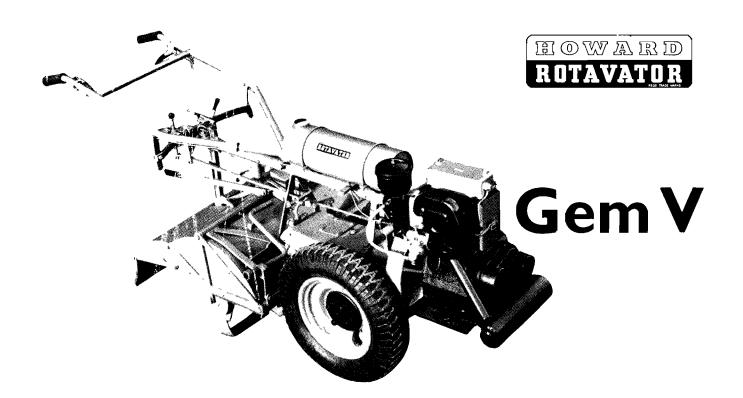
HOWARD ROTAVATOR CO. LTD., WEST HORNDON, ESSEX

Telephone: HORNDON GREEN 361

Telex: 99217 Cables: ROTAVATOR BRENTWOOD

AUSTRALIA · E. AFRICA · FRANCE · GERMANY · ITALY · NEW ZEALAND · SOUTH AFRICA · SPAIN · U.S.A.

PRICE IN UNITED KINGDOM 3/-



SPECIFICATION

(a) Howard 810 c.c. 4 stroke Twin Cylinder Petrol or V.O. Engine—developing 12 b.h.p. at 2,000 r.p.m. 3" diameter bore x 3½" stroke.
(b) Sachs 2-stroke single cylinder water cooled Diesel Engine. 499 c.c. developing 9 h.p. at 2,000 r.p.m.

Clutch

Heavy duty twin dry plate.

Three speed and Reverse Transmission by hardened gears running in oil. All shafts mounted on ball bearings. Differential gear for easy turning, automatically locked when rotor is

Speeds

	07	41.41
1st Gear	.87 m.p.h.	(1.4 k.p.h.)
2nd Gear	1.3 m.p.h.	(2,1 k.p.h.)
3rd Gear	2.82 m.p.h.	(4.5 k.p.h.)
Reverse Gear	1.69 m.p.h.	(2.7 k.p.h.)

Fuel Capacity

2 gallons (9 litres).

Dimensions

(Petrol driven model). Length: 6' 8" (203 cms.).

Width: 20" Rotor 2' 1" (63.5 cms.).

24" . 2' 5" (74 cms.).

30" . 2' 11" (89 cms.).

Petrol model- approximately $5\frac{1}{2}$ cwt. (280 kg.). Diesel ,, , $6\frac{1}{2}$... (330 kg.). Diesel ,,

Oil Capacities

Gearbox—6 pints (3.4 litres). Chaincase— 3 pint (1 litre).

20" tyres.

Tyre pressure -20 lb. per sq. in.

Controls

Rod operated gear lever.

Rod operated rotor engagement lever.

Rod operated clutch lever with safety reverse interlock.

Engine governor control by Bowden cable.

Rotavator

Drive by heavy duty \(\frac{3}{4}\)" pitch roller chain.

Rotor diameter 18" (46 cms.).

Rotor speed 172 r.p.m. at 2,000 r.p.m. engine speed.

Tillage width—20", 24" or 30" (51 cms., 61 cms. or 76 cms.).

P.T.O. (Optional fitment)

10" diameter pulley, 4" face. 500 r.p.m.
Belt speed 1,309 r.p.m.

at 2,000 r.p.m. engine speed.

The New Machine

Before attempting to start the 'GEM', study the Instruction books for both machine and engine.

Check all oil level and lubrication points.

Run the machine lightly at first, and gradually increase the loads during the first 25 hours' work. Never allow the engine to labour during this period.

After the first five hours of operation all nuts and bolts should be checked for tightness, including the two Main Hub

Opening the Machine

Start the engine according to the engine instruction book. Lift the clutch lever and engage the appropriate gear. Do not force the gears into mesh. If they do not immediately engage, release the clutch lever memorates: release the clutch lever momentarily.

The slight noise which may be heard when the clutch is engaged is due to the positive action of the twin plates.

Page 1

When in a position to start rotavating, lift the clutch lever again, and move the rotor engagement lever to the 'IN' position. Increase the engine speed and gently release the clutch, allowing the machine to pull itself into work.

Note: The rotor engagement lever also operates the differential lock. The lever must therefore be put into the 'OUT' position for turning.

position for turning.

The depth is controlled by pressing the depth control lever to the right, which frees the skid in the socket and allows it to be repositioned in the desired hole. There are two alternatives the second seco ative holes in the skid itself. The lower one will permit a greater depth to be obtained.

Choose the depth to suit the crop to be planted. If this is deeper than can be obtained in one pass without the engine labouring, several passes should be made at progressively increasing depths.

First gear should be used for heavy work, and where a fine tilth is required. Second gear for normal conditions. Top gear for light hoeing and road work.

Where a coarse tilth is required the rotor shield should be raised as high as possible with the trailing board folded back. The rotor should always be disengaged when reversing as well as when turning at headlands.

To stop the machine, raise the clutch and move the gear lever to the neutral (centre) position. Move the rotor engagement lever to the 'OUT' position and then release the clutch.

To reverse, operate as follows:

Pull up clutch lever, move gear lever to Reverse (which operates safety interlock) release clutch lever. No movement takes place until the clutch lever is pushed down. Removal of pressure automatically stops the machine. To disengage levers pull up the clutch lever and move lever to Neutral.

It is often found that the machine is most easily turned in It is often found that the machine is most easily turned in reverse gear, especially when ground conditions are very wet, and a considerable amount of earth may have adhered to the underside of the shield. Provided the blades are lifted clear of the ground, the 'GEM' can be turned quite easily, either in Forward or Reverse gear. If there appears any difficulty in turning check that the differential lock is fully disengaged when the rotor lever is pulled back. Adjustment can be made us the differential lock control and should this not be the case. on the differential lock control rod should this not be the case.

The handlebars can be adjusted for height to suit the operator by means of the alternative holes provided in the handlebar lugs. The handlebars can be swung to either side by pressing the handlebar positioning lever to its full extent. and swinging the handlebar to whichever side is desired. A hole is provided at each end of the slide to hold it in position

at that point.

Lubrication and Maintenance

OILS

Use only good quality oils S.A.E. 90 Grade should be used in the gearbox and chaincase, and engine oil in the other lubricating points.

AIR CLEANER

Pay particular attention to the Air Cleaner at all times. It may be necessary to change the air cleaner oil twice daily under dusty conditions. If the oil is not changed in time the accumulated dust will raise the level to a point where the oil is sucked into the engine, where the absorbed dirt would cause immediate and expensive damage. Never allow sediment to build up in the air cleaner base.

Routine Maintenance

Every 10 hours' work or daily (time required 5-15 minutes)

1. Check Engine oil level.

Check level and condition of oil in air cleaner. Clean and renew if necessary. (Twice daily in extremely dusty anditions.)

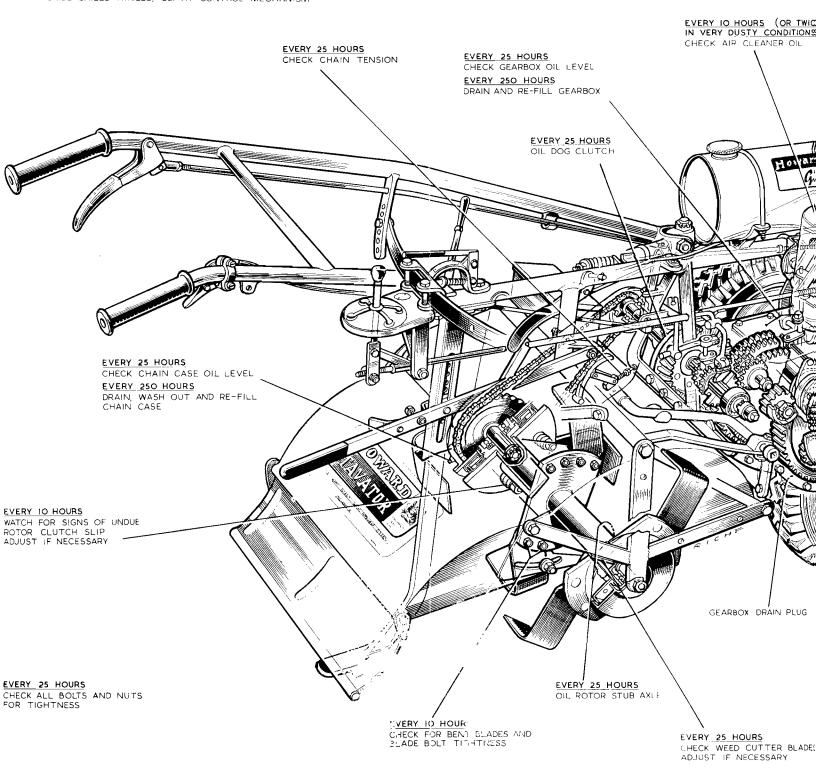
Check tighther soft blade bolts. Straighten any bent blades with blade setting bar.

Vitual feet agree of undue rotor clutch slip. Adjust if the sessary on the bar spring-loaded clutch nuts on the base end of the rotor. The normal setting is to tighten these up so that the springs are fully compressed and then slacken back each that half a turn.

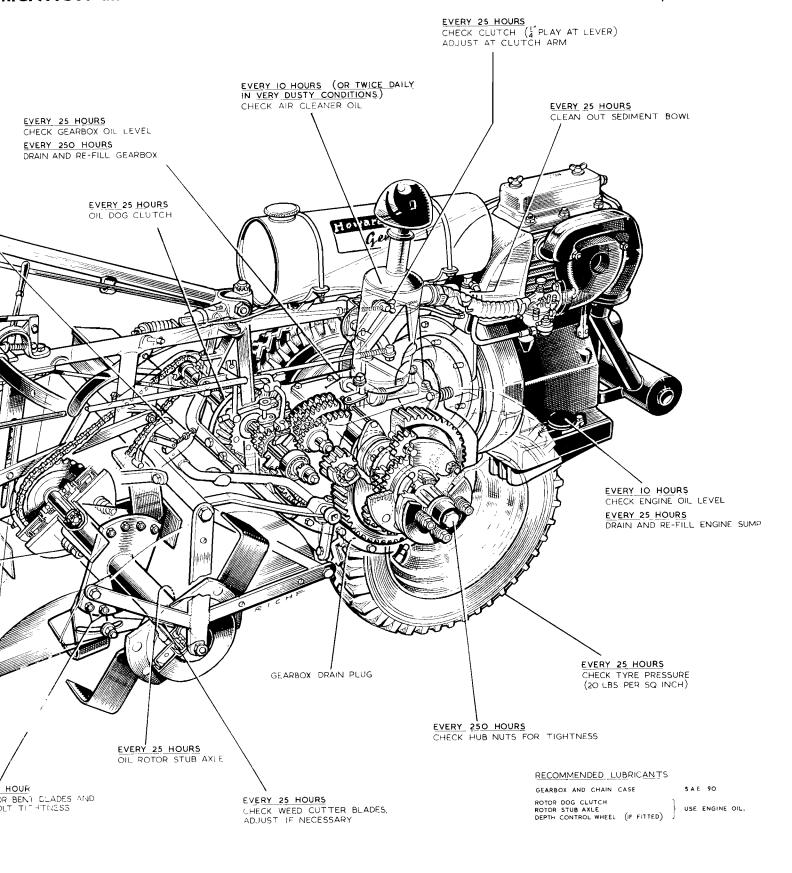
LUBRICATION and MAINTENANCE CHART

EVERY 25 HOURS

LUBRICATE THROTTLE CABLE, GEAR CLUTCH AND ROTOR CONTROL PIVOTS, HANDLEBAR SWIVEL AND SLIDE SHIELD HINGES, DEPTH CONTROL MECHANISM



RICATION and MAINTENANCE CHART



Every 25 hours' work (time required about 30-45 minutes):

Maintain engine as per Instruction Book.

Check gearbox oil level with dipstick.

Give several squirts from an oil-can (engine oil) to the rotor dogs. The small square headed plug on the rotor dog clutch housing gives access to this point.

Check chaincase oil level. Oil should just seep over the oil level plughole (situated at rear of chaincase) when

blades are touching the ground.

Lubricate rotor stub axle bearing with an oil can (the oilway screw is situated on the rotor tube just inside the right hand flange).

Lightly oil throttle cable, gear, clutch and rotor control pivots, handlebar swivel and slide, shield hinges and

depth control mechanism.

Check the chain tension and reset if necessary to give a total up and down movement of $\frac{3}{8}$ in. to $\frac{1}{2}$ in. This can be checked with a suitable screwdriver inserted through the oil filler hole and turned to grip the chain between the links. Loosen locknut on the external adjuster (bottom frent of chaincase), and screw in the adjusting screw to

increase chain tension. Then retighten locknut. Check engine clutch adjustment, and reset if necessary, to give approximately \(\) in. free movement at the handle-bar lever. Adjustment should be taken up at the front clutch control arm by means of the wing nut.

Remove and clean out the sediment bowl on the fuel

Check all nuts and bolts for tightness. 10

Check tyre pressures to 20 lb. per sq. in. (4.1 kg. per 11. sq. cm.).

Adjust weed cutter blades if necessary to just clear the outside blades of the rotor.

Every 250 hours' work (time required about 60 minutes):

Drain and refill gearbox with fresh oil. Drainplug is at the lowest part of the gearbox on the inside face. Use 6 pints (3.4 litres) S.A.E. 90 gear oil.

Remove the chaincase. Wash out with petrol (including

chain). Replace and refill with fresh oil $-\frac{3}{8}$ pint ($\frac{1}{4}$ litre)

S.A.E. 90 gear oil.

Check the hub nuts for tightness. These are the big nuts which hold the hubs on to the taper splined shafts.

Road Wheels

Note. The Road Wheels are mounted on the hubs by a friction clutch device. These are adjusted so that the wheels have sufficient grip to pull the machine, but will slip if they become jammed with an obstruction between the wheels and the frame.

Normal adjustment is to tighten each nut until the springs are fully compressed and then slacken back half a turn.

Should the wheels appear not to be driving, check that this adjustment is correct.

BLADES

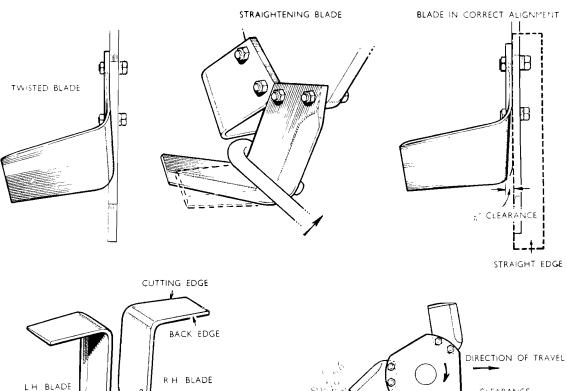
The 'GEM' is normally delivered with the blades already fitted. If it is necessary to fit your own blades, this is the way it should be done:

Identify left hand and right hand blades.

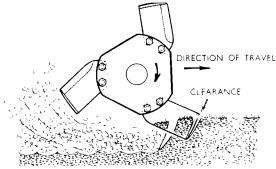
Identify left hand and right hand blades.
 The left hand end flange carries two left hand blades.

The right hand end flange carries two left hand blades.

3. The centre flange (or flanges, dependent on the width of the rotor), carries two left hand and two right hand blades leading. The blades should be fitted to the left hand side of the centre flanges, with the heads of the bolts in contact with the blades and with the spring washers fitted under the nuts.







Correct blade setting showing clearance at back of blade

Making the most of your Gem

GENERAL

The Howard Rotavator 'GEM' will cultivate to a maximum depth of 9 in. (23 cms.). On certain, especially the heavier, types of soil, this depth will not be obtained in a single pass. Where cultivation in depth is needed, a first pass should be made at 3-4 in. (7-10 cms.) and followed by a second at full depth.

If the surface of the ground is very hard or baked, the depth control should be adjusted so that the machine just bites the surface. Further passes should then be made until the required depth is reached.

On heavy land which is to be laid up for the winter, the surface should be left rough. By using the ridging or furrowing attachment during this final or late autumn cultivation the land can be left in ridges to promote better drainage and to expose a greater surface area to weather.

If heavy land is rotavated too finely and left bare to the winter rains, the soil may run together, and spring cultivations will be difficult.

On light land two courses are open. It may either be left rough, or it may be rotavated to medium depth and sown to a green crop, e.g. rye. The green crop will prevent the leaching out of the soil nitrogen. In the early part of the year the crop is rotavated. After a week or ten days, the spring seed bed may be prepared; this rotavation should be more shallow than that which worked in the green crop.

SEED BEDS

In ground which has been cultivated properly, seed beds should seldom exceed 2 in. (5 cms.) in depth, except for certain crops. Seeds require a well-aerated soil with a firm bottom. Some small seeds require a seed bed to be lightly consolidated. This is particularly important on light soil, where consolidation will bring moisture nearer to the seedling plant.

Weeds are at their most dangerous when the crop is in the seedling stage. To obtain weed-free seed beds, the ground should be prepared a few weeks in advance of the sowing dates. Rotavation should be carried out at a depth of 4 in. (10 cms.) and this causes any weed seeds to germinate. These weeds may be turned in by a second rotavation, which will prepare the seed bed at the same time. It is most important that this second rotavation is shallower than the first.

Remember that the ground is now more open and the machine will consequently tend to dig more deeply.

WEED CONTROL

Rotavation produces a well-aerated warm seed bed in which germination takes place readily. Inevitably, these conditions also favour weed seeds.

Weeds are eliminated by preventing them from reaching flower or from feeding the deep tap roots or rhizomes. Weeds are killed most easily and inexpensively by rotavating them directly they have shown green. Annuals will be killed off outright and perennials will be reduced until they too, die out. This is true even of such persistent weeds as couch and twitch.

ROW-CROP WORK

Weeds between rows may be controlled by rotavation under almost all conditions while the weeds are small. This will not prevent weeds growing in the rows themselves. Such weeds must be controlled by hand-hoeing when small. Should land become filthy because these weeds have been allowed to seed, the following crop should be a cleaning crop, e.g. roots or potatoes which will give a period of several weeks in the early part of the year when the weed seeds will shoot and can be killed by rotavation. In planning your crops so that the best use may be made of the 'GEM'; two or three inches over the effective width should be allowed on either side of the machine.

GREEN MANURING

Land not immediately required may be sown down to such crops as mustard or rye grass during the spring and summer, or rye during the winter.

These crops should be allowed to mature, if they are to be used as green manures; they will then have the best effect on the soil. But a winter cover crop will preserve plant foods which would otherwise be leached away, and need not be allowed to mature.

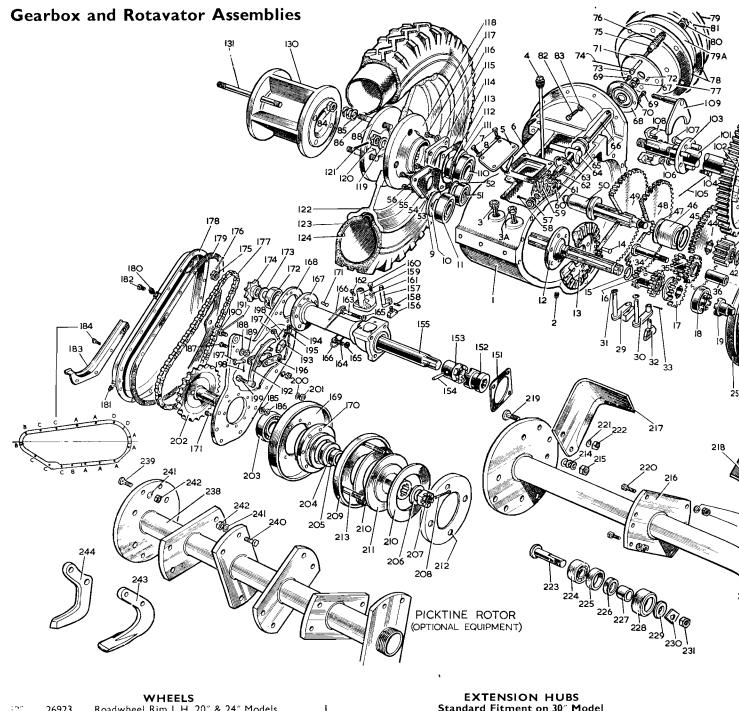
LAND RECLAMATION

The 'GEM' may also be used for bringing derelict land back into cultivation. When virgin land is being cultivated, the first pass should be at shallow depth. Depth can be increased by subsequent passes made at intervals of about a week or ten days.

Parts List

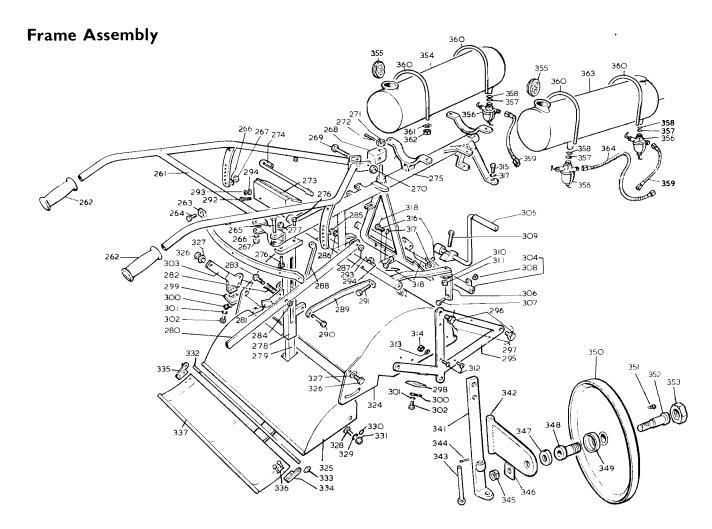
IMPORTANT. When ordering spare parts always give the serial number of your machine. Then give the part number (not the illustration number) and description. We cannot guarantee that correct parts will be supplied unless these numbers are quoted. In the following parts list all directions are given left or right looking forward from the back of the machine. The right to alter and/or amend all designs, specifications and/or prices quoted without prior notice is strictly reserved.

Illus.	Part	Description	No.	Illus.	Part		No.
No.	No.	Description	off.	No. 61	No. BRM.∄	Description Ballbearing $\frac{3}{4}$ " i.d. x 2" o.d. x $\frac{14}{18}$ " w. (Hoff.	off.
		GEARBOX			•	MS.8)	- 1
2	62907	Gearbox Casing Drain Plug ¼" B.S.P. Sq. Head, Taper Plug	!	62	62921	Clutch Shaft	1
3	G.481	Selector Bush		63 64	G.291	Circlip 2" dia. Internal Clutch Operating Pawl	!
3A	62913	Selector Bush	i	65	SFL.	Thrust Page 37 id w 1177 and w 577	!
4	G.476	Dinstick	i	66	62922	Thrust Race 3" i.d. x 132" o.d. x 3" w Thrust Sleeve	!
5	26908	Dipstick	i	67	62919	Thrust Sleeve Spacer	i
6	25185	Inspection Cover Gasket	ı	68	25069	Special Oilseal	- 1
7		Setscrew ! B.S.W. x ! long. Hex. Head	4	69		Setscrew $\frac{1}{4}$ B.S.W. x $\frac{1}{2}$ long, Round Head	3
8		Spring Washer \{ " dia	4	70		Spring Washer \" dia	3
9	25530	Spring Washer ¼" dia	Req'd		26170	Clutch I hrust Plate	1
10	G.461	Jackshaft Shim As	Req'd		إحمد	comprising:—	
1 1	BRM.I	Ballbearing I" i.d. $\times 2\frac{1}{2}$ " o.d. $\times \frac{3}{4}$ " w.		71	G.233	Plate	ı
12	25029a	(Hoff.MS.10) Jackshaft		72 73	G.234 (Pin	ļ
13	25008	Jackshaft		73 74	25776 G.251	Special Bolt	4
14	23000	Rivet $\frac{5}{16}$ dia. x $\frac{3}{4}$ long, Round Head	6	75	62063	Distance Piece	1
15	G.436	Special Circlip, Anderton No. 900/100	l	76	G.260	Spring	4 4
16	25005	Double Pinion	i	77	26171	Clutch Plate Fixed	Ĭ
17	62914	Double Pinion Single Pinion	i	78	G.220	Friction Disc	2
18	G.437	Starting Dog Bearing	- 1	79	G.231	Clutch Plate Loose	ī
19	G.373	Starting Dog	ı	79A	62918	Clutch Plate Loose	1
20	G.402	Starter Dog Bearing Housing Gasket		80	25062	Special Nut	- 1
21	G.374	Starter Dog Bearing Housing		81		Split Pin 32 dia. x 1 long	I
22 23		Setscrew 3" B.S.W. x 7 long, Hex. Head	4	82		Setscrew, Engine to Gearbox 1" B.S.W.	_
23 24	62908	Spring Washer 3 dia Gearbox Cover	4	83		x " long, Hex. Head Spring Washer \ \ \ \ '' \ dia	8
25	25050	Cover Casket	i	84		Nut 1" B S W	8 8
26	23030	Setscrew 16 B.S.W. x 7 long, Hex. Head	14	85	G.142	Nut ½" B.S.W	8
27		Spring Washer 5. dia.	14	86	G.141	Stud	8
28	25059	Mills Pin 5 " dia, x 5" long, GP.2	2	87	25878	Hub Nut	Ĩ
29	25115	Speed Change Selector	- 1	88	G.162	Wheel Hub Disc	2
30	62910	Reverse Selector	1	89	25051	Wheel Hub Right Hand	- 1
31	25648	Washer As	Req'd	90	2/51/550	Oilseal $I_4^{3''}$ i.d. $\times 2_4^{3''}$ o.d. $\times \frac{1}{2}^{3''}$ w	1
32	25072	Reverse Selector Block	!	91	BRE.13	Ballbearing $\frac{13}{16}$ i.d. x 3" o.d. x $\frac{9}{16}$ " w.	
33 34	25026	Split Pin $\frac{1}{16}$ dia. x $\frac{3}{4}$ long Reverse Idler Pin	!	92	25042	(Hoff.XLS.I ³ ₄)	1 3
35	62915	Reverse Idler Gear		93	25012	Special Nut Split Pin $\frac{32}{3}$ dia. x $1\frac{1}{4}$ long	3
36	25034	Reverse Idler Bush		94	25028	Differential Plate	ĭ
37	23037	Washer $\frac{1}{2}$ dia	i	95	25023	Differential Pinion Pin	3
38		Nyloc Nut 1" B.S.F. Type NT F.166	i	96	25020	Loose Hub Gear	- 1
39	25038	Nyloc Nut 1" B.S.F. Type NT F.166 Special Nut	i	97	25019	Fixed Hub Gear	- 1
40		Split Pin 3." dia. x 1.1" long	J	98	25022	Differential Pinion	6
41	BRL.I	Ballbearing I" i.d. $\times 21$ " o.d. $\times 3$ " w.		99 100	25024 25021	Pinion Stud	3
4 86	25254	(Hoff.LS.10)		101	25046	Bullwheel Roadwheel Axle	-
42	25054	Shim As I		102		Rivet $\frac{5}{16}$ " dia. x $1\frac{3}{4}$ " long, Round Head	6
43 44	25025 62916	Bull Pinion Layshaft Small Gear		103	T.G.314	Differential Lock Ring	ĭ
45	25758	Small Gear Shim As I	3 p.a. 'd	10 4	G.317	Differential Lock Setscrew	3
46	25015	Spacer		105	G.327	Locking Wire 16 S.W.G. x 9" long	ł
47	25757		Reg'd	106	G.316	Differential Lock Spacer	3
48	25012	Medium Gear		107	25056	Differential Lock Pin	3
49	25011	Large Gear	i	108 109	TG.313 25359	Differential Lock	!
50	25037	Layshaft	ı	110	BRL.11	Differential Lock Selector Ballbearing $1\frac{1}{4}$ " i.d. x $2\frac{3}{4}$ " o.d. x $\frac{1}{16}$ " w.	,
51	BRL.∄	Ballbearing $\frac{3}{8}$ " i.d. x $\frac{1}{8}$ " o.d. x $\frac{9}{18}$ " w.		110	DICE. 14	(Hoff.LS.12)	1
5 2	25404	(Hoff.LS.8)	ا د'۔۔د	111	25906	Shim As R.	ec'd
52 53	25684		₹eq'd	112	25058	Oilseal Shim As R	
53	G.355	Gasket	i ,	113	20012550	Oilseal 11" i.d. x 2" o.d. x 1" w	1
54 55	G.354	Layshaft Bearing Stop) 2	114	25057	Axle Bearing Stop Gasket	!
56		Spring Washer $\frac{5}{16}$ dia Setscrew $\frac{5}{16}$ B.S.W. x $\frac{5}{8}$ long, Hex. Head	3 3	115	25053	Axle Bearing Stop	1
57	25061	Special Nut		116		Spring Washer 3" dia	4
٠.	25794	•	Req'd	117 118	25052	Setscrew 3" B.S.W. x 3" long, Hex. Head Wheel Hub Left Hand	4
58			I	119	ZJUJZ	\A/	l I
59	25007	Spiral Bevel Pinion	i	120	25047	A Look A Look	!
60	G.292	•	Req'd	121		Split Pin $\frac{5}{5}$ dia. x $\frac{11}{2}$ long	Ì
			•				•

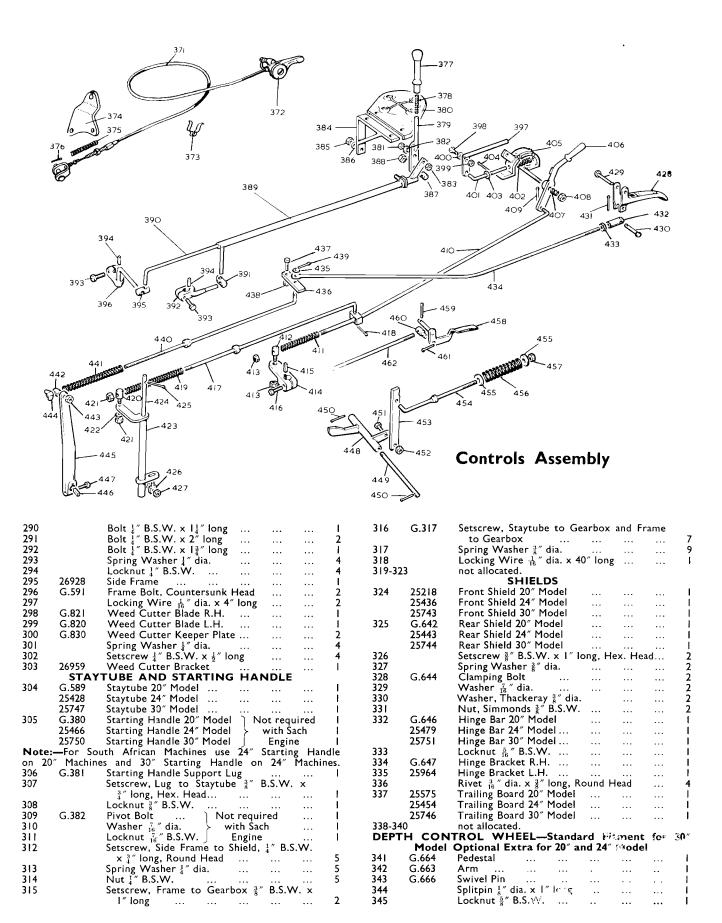


		WHEELS		EXTENSION HUBS	
122	26923	Roadwheel Rim L.H. 20" & 24" Models	 1	Standard Fitment on 30" Model	
	26923	Roadwheel Rim L.H. 30" Model	 3	Optional Extra for 20" & 24" Models	
	26922	Roadwheel Rim R.H	 1	130 25397a Extension Hub L.H 1	
123	G.134	Outer Tube	 2	25396a Extension Hub R.H I	
1440	G.133	Inner Tube	 2	131 25394 Stud Short L.H 4	
123	G.130	Landwheel 20" & 24" Model	 2	25393 Stud Long R.H 4	
	26074	Landwheel R.H.) 20" M. I.		STARTING HANDLES for use with Extension Rims and Hubs	
	26075	Landwheel L.H. 30" Model	 ı	132 25466 Starting Handle for 20" Model I	
		"dditional for 30" Model.		25750 Starting Handle for 24" Model I	
		EX" :NSION RIMS		133-150 not allocated.	
126	175	Extensia Rim for 20" Model	 2	JACKSHAFT EXTENSION AND BACKPLATE	
	7.	Extension 2 im for 24" Model	 2	151 G.402 Gasket	
127		Bolt § " ≥ 5 W. x 1 " long	 10	152 G.439 Sliding Dog	
:28		an "" an i i	 10	153 G.452/2 Fixed Dog l	
129	N 100 8 1 6.	· · · · · · · · · · · · · · · · · · ·	 10	154 G.452 3 Fixed Dog Pin	

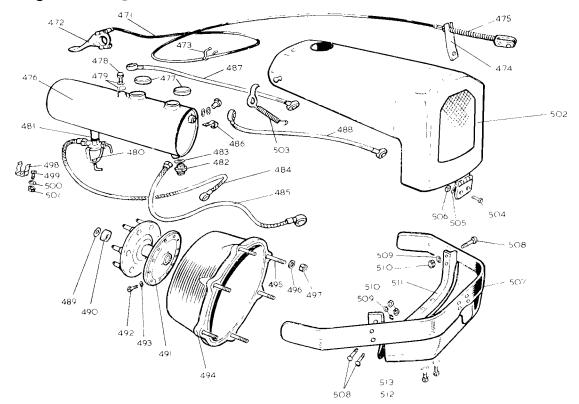
100 99 98 97 96 96 96 97 96 96 97 96 96 97 96 98 97 96 98 97 96 98 97 96 98 97 96 98 97 96 98 98 97 96 98 98 98 98					168 169 170 171 172 173 174 175	25735 G.530 G.545 G.540 BRM.I G.462 G.460 G.455	Jackshaft Housing 3 Backplate Bearing Dust Cover Rotor Bearing Hou Rivet ¼" dia. x ¾" la Ballbearing ¼" i.d. x MS.10) Shim Jackshaft Sprocket Special Nut Split Pin ¼" dia. x Å CHAINCASE A	 sing ong, Pan < 2½″ o.c ½″ long	 Head J. x ¾″ 	···· ··· ··· ··· ··· ··· ··· ··· ··· ·	 As Re	 6 eq'd
	94 93 92 91 27 26	125	126		177 178 179 180 181 182 183	25101 26152 26153 26154 G.520 26842 G.522 G.458 G.590 G.519	Chaincase Chaincase Gasket Oil Plug § B.S.P. S Oil Level Plug ½ B.Frame Bolt, Chainca Wearing Shoe	 q. Head S.P. Sq. ase to St	Head aytube	·		1 26 27 1 1
39 6 39 6 37 37 38	90 28				184a 184b 184c 184d 185 186 187	6.50	Setscrew, Backplate x \frac{5}{8}\cappa long, Rd. He Spring Washer \frac{1}{4}\cappa d Nut \frac{1}{4}\cappa B.S.W.	x 5 lor x 1 lor x 7 lor ia e to Shi ad ia	ng, Rong, Rong, Rong, Hong, Ho	und Hex. H	Head Head Head S.W. 	7 3 5 2 17 10
24 27 26	89	85 86 86 86 86 86 86 86 86			190 191 192 193 194 195 196 197 198 199 200	25917 25920 25913 25919 25914	Sliding Block Adjusting Screw Nut 5 " B.S.F.	ia. x 4" !" long	long x I] "			1 1 1 2 2 2 1 1
	TO TO				201	G.561a	Nut 16 M B.S.W. ROTOR DI Rotor Drive Shaft	 RIVE	•••	•••	•••	i
221 2-06 0 0 232 233 0 0 0	235 236	237	EXTENSION (OPTIONAL EQUI		204 205 206 207 208	BRM.030	Ballbearing 30 m.m 19 m.m. w. (Hoff. Oilseal 2½" o.d. x 1	. i.d. x 330) '½″ i.d. x d	 : ½" w. 			1 1 1
					209 210 211 212 213 214 215	G.605 G.607 G.606 G.544 G.603 G.602	ROTOR SAFETY Drive Plate Friction Disc Rotor Drive Disc Wearing Plate Rotor Drive Stud Rotor Drive Spring Nut ½" B.S.W.		CH 			1 2 1 1 4 4 4
155	G.452 26045 25738	Extension Shaft 20" Model Extension Shaft 24" Model Extension Shaft 30" Model		, 	216	G.600a 25462 25734	ROTOR Rotor 20" Model Rotor 24" Model Rotor 30" Model					i i
156 157 158 159 160	G.156 G.153 16706 G.456	Selector Block Selector Crank Selector Cotter Pin Rotor Dog Clutch Selector Ho Setscrew 16 B.S.W. x 3 lon	 ousing	 	217 218 219 220	G.900R G.900L G.919 G.918	Hoe Blade R.H. Hoe Blade L.H. Blade Bolt, End Flan Blade Bolt, Int			24″ & 6 6 8	. 50	4 3
161 162 163 164 165 166 167	G.458a 25776 25777 25778 G.453 25865	Spring Washer 16 dia Oil Plug 1 B.S.P. Taper Special Bolt Special Setscrew Spring Washer 3 dia Locking Wire Jackshaft Housing 20 Model Jackshaft Housing 24 Model	· · · · · · · · · · · · · · · · · · ·	3 1 2 2 4 2 !	221 222	26530 26531 9943 9944	Flanges Spring Washer 16 B.S.F. Nut 16 B.S.F. Swept Back Blade L. Swept Back Blade R. Universal Blade L.H Universal Blade R. * Alternative	··· }	**	16 24 7 : 3		3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6



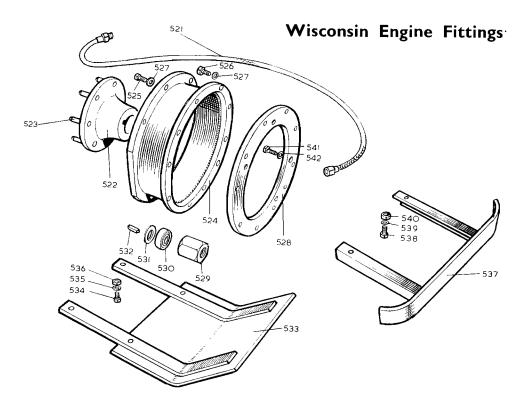
		ROTOR STUB AXLE	264		Bolt, Slide Bar 🖁 " B.S.W. x 📙 " long Hex.
223	G.630	Rotor Stub Axle I			Head
224	BRM.§	Ballbearing $\frac{5}{8}''$ i.d. \times $\begin{bmatrix} \frac{13}{16}'' \\ 0 \end{bmatrix}$ o.d. \times $\begin{bmatrix} \frac{5}{8}'' \\ 0 \end{bmatrix}$ w.		25392	Slide Clamp Bolt
	**	(Hoff.MS.7) I	266		Spring Washer 3" dia
225	G.637	Oilseal Holder I	267		Nut 3 B.S.W
226	15008740	Oilseal $1\frac{1}{2}$ " o.d. $\times \frac{7}{8}$ " i.d. $\times \frac{13}{3}$ " w	268	G.104	Pivot Block
227	G.634	Spacing Sleeve	269		Pivot Bolt $\frac{1}{2}$ " B.S.W. x $2\frac{3}{8}$ " long
228	G.632	Bearing Cap	270		Locknut $\frac{1}{2}$ B.S.W
229	G.629	Felt Dust Seal 1	271		Nut § B.S.F. Slotted
230	G.648	Tab Washer	272		Splitpin $\frac{5}{3}\frac{5}{2}$ " dia. x $\frac{1}{2}$ " long
231		Nut § " B.S.F. Locknut I	273	25636	Tool Box
232		Oiling Screw 1" B.S.W. x 3" long, Round	274	16811	Blade Setting Bar 20" Model
		Head		G.993	Blade Setting Bar 24" Model
233		Spring Washer 1" dia		G.993	Blade Setting Bar 30" Model
234		Rivet 3 dia. x 3 long, Round Head 3	275	62928	Main Frame 20" Model
235	G.639	Inner Dust Cover I		62943	Main Frame 24" Model
236	G.635	Back Plug		62947	Main Frame 30" Model
237	G.640	Outer Dust Cover, !			
					DEPTH CONTROL
		KTINE ROTOR—Optional Extra.	276		Socket Bolt $\frac{3}{8}$ B.S.W. x $2\frac{1}{2}$ long
238	G.600B	Picktine Rotor 20" Model (6 flanges)	277		Nut ¾ ″ B.S.W
	25473	Picktine Rotor 24" Model (7 flanges)	278	25219	Depth Control Socket
	25969	Picktine Rotor 30" Model (9 flanges) I	279	G.950	Depth Control Skid—(See Depth Control
239	G.922	End Flange Bolt per flange 4			
240	0.001				
	G.921	Intermediate Flange Bolt per flange 4	280		Wheel for 30" Model)
241	G.921	Intermediate Flange Bolt per flange 4 Spring Washer $\frac{\pi}{16}$ dia per flange 4	280 281	G.671	Wheel for 30" Model) Depth Control Arm
242		Intermediate Flange Bolt per flange 4 Spring Washer 76 dia per flange 4 Nut 76 B.S.F per flange 4	281	G.671 G.674	Wheel for 30" Model) Depth Control Arm Clip
242 243	26992	Intermediate Flange Bolt per flange 4 Spring Washer ie dia per flange 4 Nut ie B.S.F per flange 4 Picktine per flange 2	281 282	G.671	Wheel for 30" Model) Depth Control Arm Clip Spring
242 243 244	26992 G 991	Intermediate Flange Bolt per flange 4 Spring Washer 76 dia per flange 4 Nut 76 B.S.F per flange 4 Picktine per flange 2 Lucerne Tine per flange 2	281 282 283	G.671 G.674	Wheel for 30" Model) Depth Control Arm Clip Spring Bolt 4" B.S.W. x 1½" long
242 243	26992 G 991	Intermediate Flange Bolt per flange 4 Spring Washer ie dia per flange 4 Nut ie B.S.F per flange 4 Picktine per flange 2	281 282 283 284	G.671 G.674	Wheel for 30" Model) Depth Control Arm Clip Spring Bolt ½" B.S.W. x 1½" long Locknut ½" B.S.W.
242 243 244	26992 G 991	Intermediate Flange Bolt per flange 4 Spring Washer 76 dia per flange 4 Nut 76 B.S.F per flange 4 Picktine per flange 2 Incerne Tine per flange 2 not allocated.	281 282 283 284 285	G.671 G.674	Wheel for 30" Model) Depth Control Arm Clip Spring Bolt ¼" B.S.W. × I½" long Locknut ¼" B.S.W Pivot Bolt ¾" B.S.W. × I¾" long
242 243 344 245-26	26992 G 991	Intermediate Flange Bolt per flange 4 Spring Washer 76 dia per flange 4 Nut 76 B.S.F per flange 4 Picktine per flange 4 Incerne Tine per flange 2 not allocated. FE! ME AND HANDLEBARS	281 282 283 284 285 286	G.671 G.674	Wheel for 30" Model) Depth Control Arm Clip Spring Bolt ¼" B.S.W. x I½" long Locknut ¼" B.S.W. Pivot Bolt ¾" B.S.W. x I¾" long Washer ¾" dia.
242 243 344 245-26	26992 G 991 60 629 4 8	Intermediate Flange Bolt per flange 4 Spring Washer 76 dia per flange 4 Nut 76 B.S.F per flange 4 Picktine per flange 2 Interne Tine per flange 2 not allocated. FR. ME AND HANDLEBARS Handlebar	281 282 283 284 285 286 287	G.671 G.674 G.675	Wheel for 30" Model)
242 243 244 245-26	26992 G 991	Intermediate Flange Bolt per flange 4 Spring Washer 76 dia per flange 4 Nut 76 B.S.F per flange 4 Picktine per flange 4 Incerne Tine per flange 2 not allocated. FE! ME AND HANDLEBARS	281 282 283 284 285 286	G.671 G.674	Wheel for 30" Model)



Diesel Engine Fittings



346	G.665	Tab Washer	. 1		TRAVEL GEAR CONTROL
347	G.657	Inner Dust Cover	. 1 377	25154	Gear Lever Upper
348	G.659	Bush	l 378	25161	Hand Lever Spring I
349	G.658	Outer Dust Cover	1 379	25158	Gear Lever Lower
350	G.660	Wheel	l 380	25173	Gate
351	0.000	Oiling Screw 1" B.S.W. x 3" long, Roun	d 381		Pivot Bolt ! "B.S.W. x \ \ " long \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
331		Head	382		Washer \frac{1}{\pi} dia
352	G.661	Axle	\ 383		Locknut 1 B.S.W
353	G.662		384	25136	Rear Support Bracket
333	0.002	•	385	20.00	Nut 5 " B.S.W !
		FUEL TANK-PETROL	ı 386		Washer & " dia
354	26598		387	25415	Control Rod Trunnion I
355	G.172		388		Nyloc Nut 16 B.S.W. No. NT V.106 1
356		1 CCI OI I IICCI TTIPAG 1/F = -	' 200	25139	Control Tube—to 2nd & 3rd Gears
357		Scarring Transition Trapers Type	390	25165	Control Rod—to 1st & Reverse Gears
358	26899	Tible Trasilet III	391	25172	Universal Joint—1st & 2nd Gears
359	26892	ruerripe	1 392	25332	Control Arm—Ist & 2nd Gears I
360	G.175		4 393		Bolt, Control Arms 5 "B.S.W. x I" long 2
361			7 394	G.155	Key 2
362		1100 [4 395	25166	Universal Joint—1st & Reverse Gears 1
	FUE	L TANK-V.O. AND LAMP OIL	396	25331	Control Arm—Reverse & 3rd Gears 1
363		L TANK—V.O. AND LAMP OIL Fuel Tank	I 396	25331	
363 364	FUE 26588 26889	Fuel Tank	l l ROT	25331	
364	26588 26889	Fuel Tank	396 ROT	25331 OR, DIFF	ERENTIAL AND HANDLEBAR CONTROL
364 355	26588	Fuel Tank Fuel Pipe	396 ROT 2 397 2 398	25331	FERENTIAL AND HANDLEBAR CONTROL Handlebar Positioning Arm
364 355 356	26588 26889	Fuel Tank Fuel Pipe	396 ROT 2 397 2 398	25331 OR, DIFF	FERENTIAL AND HANDLEBAR CONTROL Handlebar Positioning Arm Bolt \{ " B.S.W. \times \{ " long 1 \]
364 355 356 357	26588 26889 G.172	Fuel Tank Fuel Pipe	ROT 396 ROT 397 2 398 2 399	25331 OR, DIFF	FERENTIAL AND HANDLEBAR CONTROL Handlebar Positioning Arm Bolt \{ " B.S.W. x \{ " long Nut \{ " B.S.W
364 355 356 357 358	26588 26889	Fuel Tank Fuel Pipe	396 ROT 2 397 2 398 2 399 2 400	2533 i FOR, DIFF 25320	FERENTIAL AND HANDLEBAR CONTROL Handlebar Positioning Arm
364 355 356 357 358 359	26588 26889 G.172 26899 26892	Fuel Tank Fuel Pipe Tank Cap Tank Cap Filter—Wipac Type 50 Sealing Washer—Wipac Type 03178 Fibre Washer Fuel Pipe—Short Tank Strap	396 ROT 2 397 2 399 2 400 1 401	2533 i F OR, DIFF 25320 G.465	FERENTIAL AND HANDLEBAR CONTROL Handlebar Positioning Arm
364 355 356 357 358 359 360	26588 26889 G.172 26899	Fuel Tank Fuel Pipe Tank Cap Tank Cap Sealing Washer—Wipac Type 50 Fibre Washer Fuel Pipe—Short Tank Strap Spring Washer " dia	396 ROT 2 397 2 398 2 398 2 400 401 4 403	2533 i FOR, DIFF 25320	FERENTIAL AND HANDLEBAR CONTROL Handlebar Positioning Arm
364 355 356 357 358 359 360 361	26588 26889 G.172 26899 26892	Fuel Tank Fuel Pipe Tank Cap Tank Cap Sealing Washer—Wipac Type 50 Fibre Washer Fuel Pipe—Short Tank Strap Spring Washer " dia	396 ROT 2 397 2 398 2 399 400 4 402 4 403	2533 i F OR, DIFF 25320 G.465	FERENTIAL AND HANDLEBAR CONTROL Handlebar Positioning Arm
364 355 356 357 358 359 360 361 362	26588 26889 G.172 26899 26892 G.175	Fuel Tank Fuel Pipe	396 ROT ROT 2 397 2 398 2 400 401 4 403 4 404	25331 FOR, DIFF 25320 G.465 G.466	### FERENTIAL AND HANDLEBAR CONTROL Handlebar Positioning Arm Bolt \{ '' B.S.W. x \{ '' long Nut \{ '' B.S.W Washer \{ '' dia Spring Washer \{ \(\hat{h} '' dia. \) Splitpin \(\hat{h} '' dia. \) Splitpin \(\hat{h} '' dia. \) Splitpin \(\hat{h} '' dia. \)
364 355 356 357 358 359 360 361	26588 26889 G.172 26899 26892 G.175	Fuel Tank Fuel Pipe Tank Cap Tank Cap Sealing Washer—Wipac Type 03178 Fibre Washer Fuel Pipe—Short Tank Strap Spring Washer \(\frac{1}{2} \) dia. Nut \(\frac{1}{2} \) B.S.W. not allocated.	396 ROT 2 397 2 398 2 400 4 401 4 403 4 404 405	25331 FOR, DIFF 25320 G.465 G.466	### FERENTIAL AND HANDLEBAR CONTROL Handlebar Positioning Arm
364 355 356 357 358 359 360 361 362 363-37	26588 26889 G.172 26899 26892 G.175	Fuel Tank Fuel Pipe Tank Cap Tank Cap Sealing Washer—Wipac Type 03178 Fibre Washer Fuel Pipe—Short Tank Strap Spring Washer ¼" dia. Nut ¼" B.S.W not allocated. TLE CONTROL FOR TWIN ENGIN	396 ROT 397 2 397 2 398 2 400 4 401 4 403 4 404 405 E 406	25331 FOR, DIFF 25320 G.465 G.466 25222 G.781	### FERENTIAL AND HANDLEBAR CONTROL Handlebar Positioning Arm
364 355 356 357 358 359 360 361 362 363-37	26588 26889 G.172 26899 26892 G.175	Fuel Tank Fuel Pipe Tank Cap Tank Cap Filter—Wipac Type 50 Sealing Washer—Wipac Type 03178 Fibre Washer Fuel Pipe—Short Tank Strap Spring Washer ‡ ″ dia. Nut ‡ ″ B.S.W. not allocated. TLE CON'TROL FOR TWIN ENGIN	396 ROT ROT 2 397 2 398 2 399 2 400 4 401 4 403 4 404 405 E 406 4 407	25331 FOR, DIFF 25320 G.465 G.466	### FERENTIAL AND HANDLEBAR CONTROL Handlebar Positioning Arm
364 355 356 357 358 359 360 361 362 363-37	26588 26889 G.172 26899 26892 G.175	Fuel Tank Fuel Pipe Tank Cap Tank Cap Filter—Wipac Type 50 Sealing Washer—Wipac Type 03178 Fibre Washer Tank Strap Spring Washer ‡ " dia. Nut ‡ " B.S.W. not allocated. TLE CON'TROL FOR TWIN ENGIN Throttle Cable \$\frac{1}{2}\$ \text{St.H. 1"}	396 ROT ROT 2 397 2 398 2 399 400 401 4 402 4 403 4 405 E 406 E 406 408	25331 FOR, DIFF 25320 G.465 G.466 25222 G.781	### FERENTIAL AND HANDLEBAR CONTROL Handlebar Positioning Arm
364 355 356 357 358 359 360 361 362 363-37	26588 26889 G.172 26899 26892 G.175	Fuel Tank Fuel Pipe Tank Cap Tank Cap Sealing Washer—Wipac Type 50 Sealing Washer—Wipac Type 03178 Fibre Washer Tank Strap Spring Washer ¼ dia. Nut ¼ B.S.W. not allocated. TLE CONTROL FOR TWIN ENGINE Throttle Cable Sland Control, Doherty 100 R.H. 1"	396 ROT ROT 2 397 2 398 2 400 401 4 402 4 403 4 404 405 E 406 408 ry 409	25331 FOR, DIFF 25320 G.465 G.466 25222 G.781 G.792	Handlebar Positioning Arm
364 355 356 357 358 359 360 361 362 363-37 371 372 373	26588 26889 G.172 26899 26892 G.175	Fuel Tank Fuel Pipe Tank Cap Tank Cap Sealing Washer—Wipac Type 03178 Fibre Washer Fuel Pipe—Short Tank Strap Spring Washer ¼" dia. Nut ¼" B.S.W. not allocated. TLE CONTROL FOR TWIN ENGINI Throttle Cable Sand Control, Doherty 100 R.H. 1" Throttle Table Spring Clip, Herbert Ter	396 ROT ROT 2 397 2 398 2 400 401 403 4 403 4 404 405 E 406 407 408 409 410	25331 FOR, DIFF 25320 G.465 G.466 25222 G.781 G.792	### FERENTIAL AND HANDLEBAR CONTROL Handlebar Positioning Arm
364 355 356 357 358 359 360 361 362 363-37 371 372 373	26588 26889 G.172 26899 26892 G.175 70 THROT 27059	Fuel Tank Fuel Pipe Tank Cap Tank Cap Tank Cap Sealing Washer—Wipac Type 03178 Fibre Washer Fuel Pipe—Short Tank Strap Spring Washer ¼" dia. Nut ¼" B.S.W. not allocated. TLE CONTROL FOR TWIN ENGINE Throttle Cable Sand Control, Doherty 100 R.H. 1" Throttle Cable Spring Clip, Herbert Ter No. 366 Support Page	396 RO1 RO1 2 397 2 398 2 400 401 402 403 404 405 E 406 407 408 ry 409 410 411	25331 COR, DIFF 25320 G.465 G.466 25222 G.781 G.792 G.793 25412	### FERENTIAL AND HANDLEBAR CONTROL Handlebar Positioning Arm
364 355 356 357 358 359 360 361 362 363-37 371 372 373	26588 26889 G.172 26899 26892 G.175	Fuel Tank Fuel Pipe Tank Cap Tank Cap Sealing Washer—Wipac Type 03178 Fibre Washer Fibre Washer Fuel Pipe—Short Tank Strap Spring Washer ¼" dia. Nut ‡" B.S.W. not allocated. TLE CONTROL FOR TWIN ENGINE Throttle Cable Sand Control, Doherty 100 R.H. 1" Throttle Cable Spring Clip, Herbert Ter No. 366 Support Page Support Page To a Cable Spring	396 RO1 RO1 2 397 2 398 2 400 401 402 403 404 405 E 406 407 408 ry 409 410 411	25331 FOR, DIFF 25320 G.465 G.466 25222 G.781 G.792	### FERENTIAL AND HANDLEBAR CONTROL Handlebar Positioning Arm



414	G.152	Rotor Control Arm	454 25181	Pad
415	G.155	Vov		
	G.133	Key	455 25178	
416		Setscrew $\frac{5}{16}$ " B.S.W. x I " long I	456 25131	Spring
417	G.321	Differential Lock Control Rod I	457	
418		C 1: 1 5 // 1: 9 // 1	137	Nut 16 " B.S.W 1
419	G.324	Splitpin "i" dia. x i" long		
		Control Rod Spring	DECO	MPRESSOR CONTROL—for Twin Engine
420	G.773	Eye Bolt		
42 I		Nyloc Nut 5 " B.S.W. No. NT/V.106 2	458 G.188	
422		Washer 5 dia	459	Splitpin & dia. x 3" long
423	25356		460 G.789	Trunnion
		Differential Lock Selector Quadrant	461	Splitpin 1 " dia v 1" lan-
424	25352	Quadrant Pin		Splitpin $\frac{1}{16}$ " dia. x $\frac{1}{2}$ " long
425		Splitpin $\frac{1}{16}$ " dia. x 1" long 1	462 25646	
426	G.319	Trunnion	463-470	not allocated.
427	0.517			
42/		Locknut ½" B.S.W 2	66111/556	
			CONVERS	ION UNIT FOR SACH 500 and 600 ENGINES
		CLUTCH CONTROL	471 26337	Throttle Cable
		-	472	
428	25145	Hand Lever	7/2	Throttle Control Lever—Doherty No. 100
429	G.699	Pin		R.H. I" dia
430	25149	Literate Dr. 1. Dr.	473	Throttle Cable Spring Clip—Herbert Terry
431	23177	Link Pivot Pin [No. 186
		Splitpin $\frac{1}{16}$ dia. x $\frac{1}{2}$ long	474 26576	Procket
432	25150	Adjusting Link		
433		Locknut 16 B.S.W	475 26575	
434	25170		476 55891	Fuel and Oil Tank—for 500 Engine
435	23170	Hand Lever to Pivot Lever Rod	27036	Fuel and Oil Tank—for 600 Engine
		Washer 1 " dia	477 G.172	Tank Can
436	25144	Pivot Lever I		
437		Bolt 1" B.S.W. x 3" long	478 55961	Banjo Bolt \ for 500 Engine
438			479 55962	Banjo Bolt Fibre Washer $\left.\right\}$ for 500 Engine $\left.\right.$ 2
439		Nut B.S.W	478 55961	
		Splitpin 64 dia. x 4 long	479 55962	en ' \text{\text{for 600 Engine}} \tag{\text{\text{\text{tor } 600 Engine}}} \tag{\text{\text{\text{\text{\text{\text{tor } 600 Engine}}}}
440	25 44 6	Pivot Lever to Control Arm Rod I		Fibre Washer 5 151 555 Engine 4
441	25412	Spring	480	Petrol Filter—Wipac Type 50 1
442	25410	- 	481 26899	TIDIC TYASIICI
443	23.10	Nulsa Nus 5 % D C M/ No NIT // 104	482	Union ¼" B.S.P.—Griflex Type F.181 1
	25411	Nyloc Nut 5 " B.S.W. No. NT/V.106 1	483	Fibre Washer $\frac{3}{4}$ " o.d. $\times \frac{1}{4}$ " i.d. $\times \frac{1}{16}$ " thick
444	25411	Wing Nut "	484 26338	Find D'
445	G.710	Control Arm		
446	G.711	Key	485 26336	
447		Setscrew 5 "B.S.W. x I" long, Hex. Head I	486 26578	Pipe Clin
77/		Setscrew 16 B.S. W. X I long, Hex. Head I	487 27037	Injector Spill Pine
			488 27038	Puma Caill Dia - for 600 Engine
		REVERSE INTERLOCK		
4.40	25122		489 BJ.800)/ Special Washer
448	25132	Rocker	490 BRL.½	Ballbearing $\prod_{i=0}^{5}$ o.d. $\times \frac{1}{2}$ i.d. $\times \frac{3}{8}$ v.
449	25153	Rocker Pin	491 2656Š	Drive Adaptor
450		Splitpin $\frac{1}{16}$ " dia. $\times \frac{3}{8}$ " long 2	492	Drive Adaptor Setscrew, Drive Adaptor
451		Setscrew \(\frac{1}{4}\)" B.S.W. \(\times \frac{3}{4}\)" long, Hex. Head	772	Seisciew, Drive Adaptor of
		Non 1/ D CAA		Flywheel 6 m.m. dia > for The line
452		Nut 1" B.S.W		18 m.m. long
453	25152	Vertical Link	493	18 m.m. long 12 Spring *M.shor 6 m.m. 415 12

40.1	2/044	Drive Adaptor)		WISCO	NSIN TF, AHH. and AEN. ENGINES
491	26844	Drive Adaptor	521	26897	Petrol Supply Pipe
492		Setscrew, Drive Adaptor to	341	26554	Drive Flange Rivet Assembly
		Flywheel 8 m.m. dia. x for 600 Engine		2033 1	
		18 m.m. long 6	522	26555	comprising:— Model AEN. Drive Flange
493		Spring Washer 8 m.m. dia J 6			Driver large 6
494	26745	Bell Housing	523	26432	Driving Pin 6
495	26746	Stud 6)	26446	Drive Flange Rivet Assembly I Model TF.
496		Washer $\frac{7}{16}$ dia 6	·		comprising:
497		Nut ¼ ″ B.S.W 6	5 522	26431	Drive Flange & AHH.
498	26579	Spring Clip	523	26 4 32	Driving Pin 6
499	20377	Bolt ", " B.S.W. x I" I	524	26430	Adaptor
7//		long for 20" & 24" Models	525		Bolt 4" B.S.W. x I" long 8
500		Spring Washer in dia	526		Bolt ! " B.S.W. x ! " long 10
		Nut $\frac{7}{16}$ "B.S.W	527		Spring Washer 4" dia 18
501	24570	Spring Clip	528	26552	Adaptor Ring (Model AEN. and TF.)
498	26579	Spring Clip)	26519	Adaptor Ring (Model AHH.)
499		Bolt 16 B.S.W. x I long	529	26553	Flywheel Nut (Model AEN.)
500		Spring Washer is dia. Nut is B.S.W for 30 Models	2 327	26434	Flywheel Nut (Model TF. and AHH.)
501	_	Nut $\frac{16}{16}$ B.S.VV $\frac{1}{16}$	530	BRL.	Ballbearing for Flywheel Nut (Hoff. LS.5.)
		OR SACH 500 ENGINE ONLY	1 53 l	BJ.8007	Retaining Plate I
502	26724	Bonnet		26438	Key
503	26753	Bollifee l'asteriel l'ell/5 l/po l'elle	2 532		Key
504		Setscrew 16 B.S.F. x 3 long, Hex. Head	2 533	26556	Cowling Guard Bolt \(\frac{3}{3}'' \] U.N.C. \(\times \) 3" long \(\text{Model AEN}. \) 4
505		Washer 👸 dia. Shakeproof	2 534		Bolt & U.N.C. X 3" long Model Aciv.
506		Nut 5 / B.S.F	2 535		Spring Washer 3" dia 4
507	26756	Bumper Bar	I 536		Nut 🖟 U.N.C 4 Bumper Bar 1
508	20, 30	Coach Bolt 3" B.S.W. x 21" long, Rd. Head,	537	26 4 36	Bumper Bar
300		Sg. Neck	4 538		Bolt ½" U.N.C. x 2" long Model TF 2 Spring Washer ½" dia.
509		Spring Washer 3 dia	4 539		Spring Washer 1" dia.
		Nut 3 B.S.W	4 540		Nut ½" U.N.C 2
510	2/7/1	Anala Cupport	541		Bolt $\frac{76}{16}$ A.N.C. x $1\frac{1}{4}$ long (Model AEN.
511	26741	Angle Support	2		and TF.) 4
512	26749	Special Setscrew	2		Bolt $\frac{7}{16}$ A.N.C. x \mathbb{I}_3^3 long (Model AHH.) 4
513		Spring Washer 2 dia:	2 542		Spring Washer $\frac{7}{16}$ dia 4
514-52	.0	not allocated	J+Z		Spring Trasher 16 dias

Numerical Parts List

Part Illus.	Part Illus.	Part Illus.	Part Illus.	Part Illus.	Part Illus.
No. No.	No. No.	No. No.	No. No.	No. No.	No. No.
G.104 268	G.466 402	G.821 298	25149 430	25757 47	26889 364
G.121 262	G.476 4	G.830 300	25150 432	25758 45	26892 359 26897 521
G.123 263	G.481 3	G.900R 217	25152 453 25153 449	25776 163 25777 164	04000 000
G.130 125	G.519 183 G.520 178	G.900L 218 G.918 220		25777 164 25778 166	26899 358 26899 481
G.133 124 G.134 123		G.918 220 G.919 219	25154 3// 25158 379	25794 57	26908 5
G.134 123 G.135 126	G.522 180 G.530 168	G.921 240	25161 378	25865 167	26922 122
G.141 86	G.540 170	G.922 239	25165 390	25875 126	26923 122
G.142 85	G.544 212	G.950 279	25166 395	25878 87	26928 295
G.152 414	G.545 169	G.991 244	25170 434	25906 111	26959 303
G.153 157	G.561a 202	G.993 274	25172 391	25913 194	27036 476
G.155 394	G.589 304	BJ.8007 489	25173 380	25914 197 25917 192	27037 487 27038 488
G.155 415	G.590 182	BJ.8007 531	25178 455 25181 454		27038 488 27059 371
G.156 156	G.591 190 G.591 296	9943 218 9944 217	25181 454 25185 6	25919 196 25920 193	27060 375
G.162 88 G.172 355	G.591 296 G.600a 216	9944 217 16706 158	25218 324	25964 335	27076 374
0 170 177	G.600b 238	16811 274	25219 278	25969 238	53404 205
G.172 4// G.175 360	G.602 214	25005 16	25222 405	25992 243	55891 476
G.188 458	G.603 213	25007 59	25320 397	26045/1 155	55961 478
G.220 78	G.605 209	25008 13	25331 396	26074 125	55962 479
G.231 79	G.606 211	25011 49	25332 392	26075 125	62063 75
G.233 71	G.607 210	25012 48	25352 424	26152 177	62907 1
G.234 72	G.629 229	25015 46 25019 97	25356 423 25359 109	26153 177 26154 177	62908 24 62910 30
G.251 74	G.630 223 G.632 228	05000 0/	25359 109 25392 265	26154 1// 26170 71	62913 3
G.260 76			25393 131	26171 77	62914 17
G.291 64 G.292 60	G.634 227 G.635 236	25021 100 25022 98	25394 131	26336 485	62915 35
TG.313 108	G.637 225	25023 95	25396a 130	26337 471	62916 44
TG.314 103	G.639 235	25024 99	25397a 130	26338 484	62918 79
G.316 106	G.640 237	25025 43	25410 442	26430 524	62919 67
G.317 104	G.642 325	25026 34	25411 444	26431 522	62920 73
G.317 316	G.644 328	25028 94	25412 411	26432 523	62921 62 62922 66
G.319 426	G.646 332	25029a 12 25034 36	25412 441 25415 387	26434 529 26436 537	62928 275
G.321 417	G.647 334		25415 387 25428 304	26436 537 26438 532	62943 275
G.324 419	G.648 230 G.657 347	25037 50 25038 39	25436 324	26446 522	62947 275
G.327 105 G.354 54	G.657 347 G.658 349	25042 92	25443 325	26519 528	62948 261
G.354 54 G.355 53	G.659 348	25046 101	25446 440	26530 218	
G.373 19	G.660 350	25047 120	25454 337	26531 217	BEARINGS
G.374 21	G.661 352	25050 25	25462 216	26552 528	BRL. 1 490
G.380 305	G.662 353	25051 89	25466 132	26553 529	BRL.1 530
G.381 306	G.663 342	25052 118	25466 305	26554 522	BRL. 3 51 BRL. 1 41
G.382 309	G.664 341	25053 115	35473 238 25479 332	26555 522 26556 533	BRL.1 41 BRL.11 110
G.402 20	G.665 346 G.666 343	25054 42 25056 107	25479 332 25530 9	26556 533 26565 491	BRM.§ 224
G.402 151 G.436 15		25056 107 25057 114	25575 337	26575 475	BRM. 3 61
G.436 15 G.437 18	G.667 289 G.668 288	25058 112	25636 273	26576 474	BRM.1 11
G.439 152	G.671 280	25059 28	25646 462	26578 486	BRM.1 172
G.452/1 155	G.674 281	25061 57	25648 31	26579 498	BRM.030 203
G.452/2 153	G.675 282	25062 80	25684 52	26588 363	BRE.13 91
G.452/3 154	G.699 429	25069 68	25734 216	26598 354	SFL. ³ 65
G.453 167	G.710 445	25072 32	25735 167 25738/1 155	26724 502 26741 511	OILSEALS
G.455 175	G.711 446	25101 177 25115 29		mamam 404	150.087.40 226
G.456 159 G.458 181	G.773 412 G.773 420	25115 29 25131 456	25743 324 25744 325	26/45 494 26746 495	200.125.50 113
G.458 181 G.458a 162	G.773 420 G.781 406	25132 448	25746 337	26749 512	250.150.50 204
G.460 174	G.789 460	25136 384	25747 304	26753 503	275.175.50 90
G.461 10	G.792 407	25139 389	25750 132	26756 507	
G.462 173	G.793 410	25144 436	25750 305	26842 179	
G.465 401	G.820 299	25145 428	25751 332	26844 491	