

# ROTOTILLER 5 SPARE PARTS LIST

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This Spares List refers to a later machine than the one in your possession. We believe however, that it will serve your purpose in connection with the supply of parts provided you always quote the type and the number of your machine, which are stamped on the name plate on the bonnet of your engine.

## ROTOTILLER 5. TYPE D.

### PARTS LIST

1ST EDITION, 1930.

#### How to find a part

The plates illustrate the parts in the order in which they fit together. This facilitates the ascertaining of the relation of each part in respect to its immediate neighbours.

The list of parts is arranged in each group according to the succession of the first figure of their reference number. This enables the description to be found immediately of a part of which only the reference number is known and then by means of the indication given in brackets for the "grid" to locate the part on the plate facing the text.

All parts on the plates are shown on the same scale, and the scale is given by the lines dividing the plates into squares forming a "grid." The side of each square is equal to 6 inches.

The weights given are approximate and at least rounded up to the  $\frac{1}{4}$  ounce. The weights of light parts below one ounce are given for one dozen pieces, and in such cases the word doz. is mentioned in front of the figure.

#### How to order

When ordering parts it is important, in order to avoid delay and misunderstanding, to state :—

- I. The **type** and the **serial number** of the machine which are both stamped on the name plate affixed to the machine.
- II. The **reference number of the part** as specified on the list.
- III. The **description of the part** as given on the list.
- IV. The **quantity** required of each of the parts ordered.
- V. The exact **address or railway station** to which the parts are to be sent.
- VI. The **method of despatch** which is preferred.

Failing instructions concerning despatch, the goods will be forwarded in the U.K. as follows :—

Up to 11 lbs.	..	..	Parcel post.
From 11 lbs. to 20 lbs.	..	..	Passenger train.
Above 20 lbs.	..	..	Goods train.

Our **Order Blanks**, of which one copy is enclosed with this list, provide spaces for insertion of all the above information. It will help us to help you by giving quick service if you would kindly make use of these blanks. A further copy will reach you with every advice note for goods despatched by us, or we can let you have a supply for your future needs if you prefer it.



## Prices and Terms

**Prices.** Prices, when given, are for each part at London Works, exclusive of packing and carriage charges from London to destination.

Prices do not include cost of labour in assembling or setting.

Prices are subject to alteration without notice.

Quotations obtained from this Company remain valid for 6 weeks only from date thereof.

**Terms.** While efficient service is aimed at, we accept no responsibility for delay.

Goods are despatched at consignee's risks. Claims for loss or damage must be made upon the Carriers by consignee.

Packing is charged at cost price, and is not returnable unless specially arranged with this Company.

Accounts are payable net cash 7 days from date of invoice for purchasers having an account with this Company.

Goods cannot be delivered to persons or firms unknown to this Company unless order is covered by remittance.

## Remarks

**Discrepancies.** As far as possible the parts list is kept up-to-date with any alteration if such is carried out in course of production. Wherever there is a discrepancy and the part cannot be traced accurately, it will be necessary to describe the part required, together, if possible, with rough sketch of the part and the indication of two or three approximate dimensions.

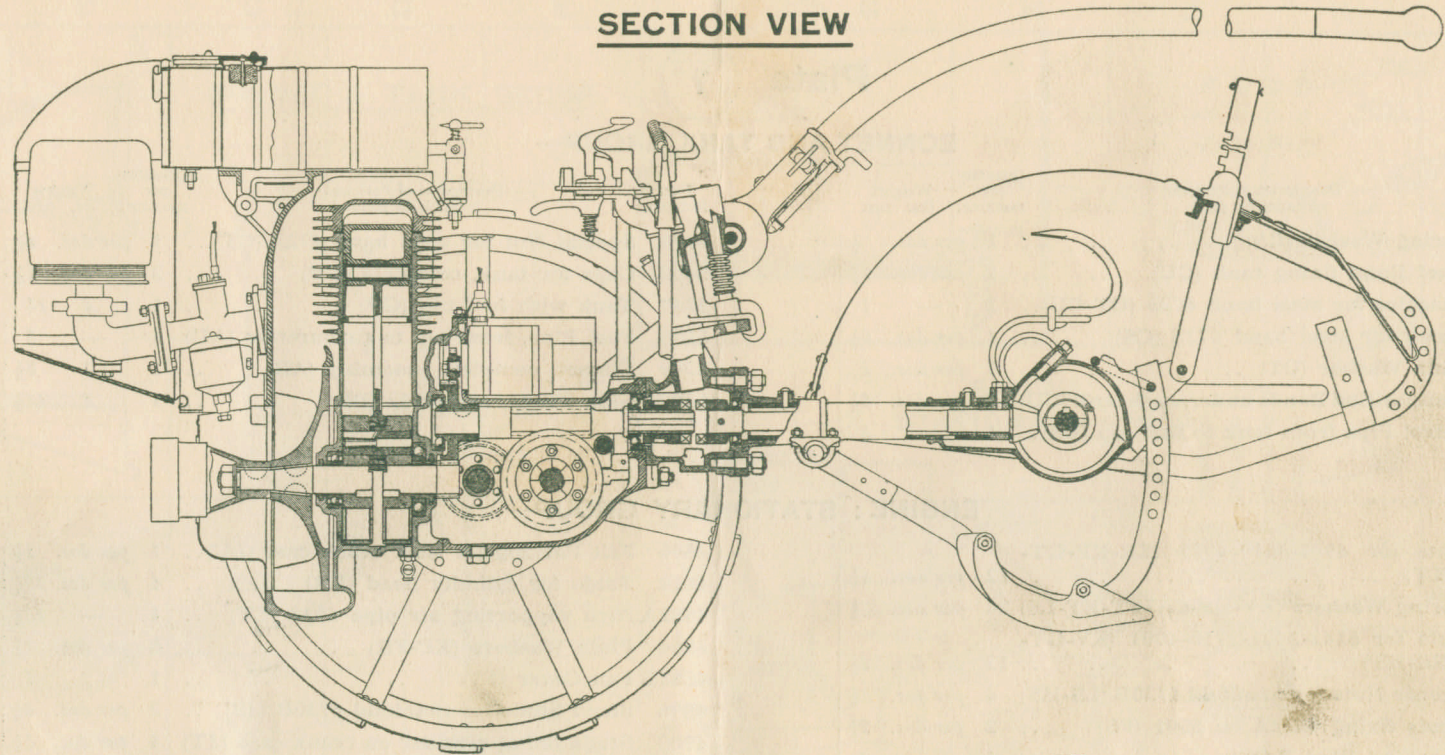
**Parts not described.** In rare cases, parts might be required which only appear on the list grouped under a single reference number with other parts. In such cases it will be necessary to describe the part and to mention the reference number of the group to which it belongs. The parts found grouped in this list are not generally dividable into smaller units. We cannot guarantee that orders for such parts of units can be fulfilled at all or at any rate without delay.

**Accessories.** The accessories which do not form part of the standard equipment of the machine (except the various types of tines appearing on page 17) are not listed in this booklet.

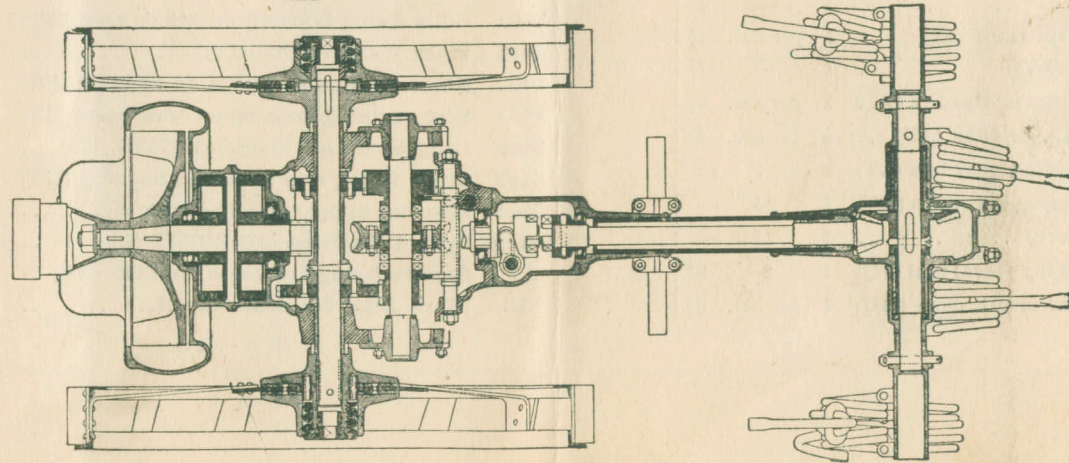
Special lists will be issued in connection with such accessories if necessary, but in most cases such accessories and their component parts can be described by their name without a list being necessary.



SECTION VIEW



ELEVATION



PLAN



# Plate 1

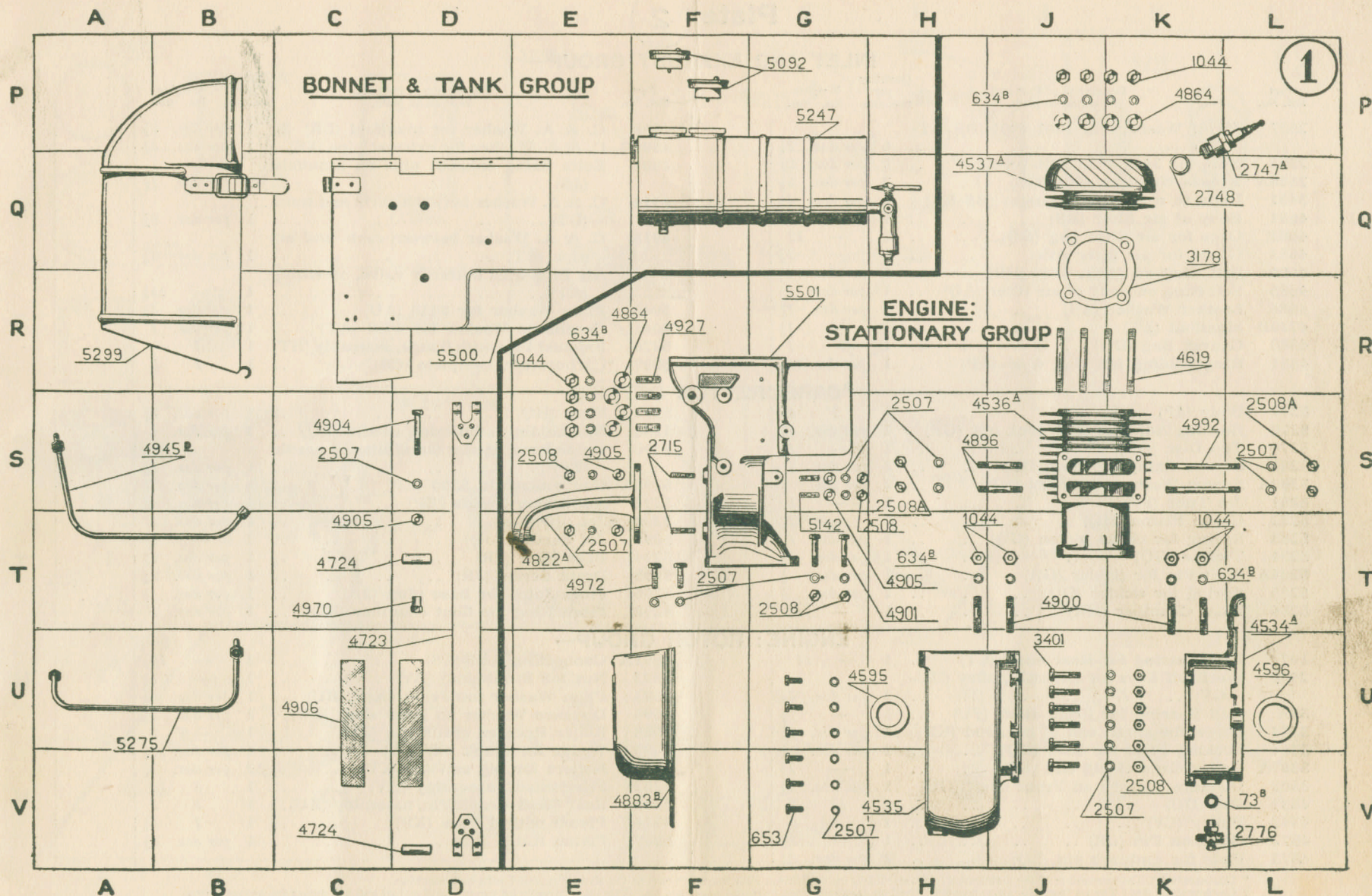
## BONNET AND TANK GROUP—

Part Ref. No.	Description of Part and location on plate.	Quantity per machine.	Weights lbs. ozs.	Part Ref. No.	Description of Part and location on plate.	Quantity per machine.	Weights lbs. ozs.
2507	Spring Washer (CS) .. .. .	1	per doz. ½	4970	Special Nut for steel band 4723 (CT) ..	1	per doz. 4½
4723	Steel Band fixing tank (CU) .. ..	1	per doz. 7½	5092	Caps for tank, complete (GP) .. ..	2	per doz. 2½
4724	Shackles for steel band 4723 (CT-CU) ..	2	— 1	5247	Tank with fuel tap (GP) .. ..	1	4 13
4904	Screw for steel band 4723 (CS) .. ..	1	per doz. 6½	5275	Fuel Pipe, from tap to carburettor (AU)	1	— 3
4905	Plain Washer (CT) .. .. .	1	per doz. 1	5299	Bonnet, complete assembly (AR) ..	1	3 6½
4906	Composition Bands underneath tank (CU)	2	per doz. 6½	5500	Side Plates, assembly (DR) .. ..	1	2 14½
4945D	Petrol Pipe from tank to fuel tap (BS) ..	1	— 3				

## ENGINE : STATIONARY GROUP—

1044	Nuts for 4900-4619-4927 (ER-KP-HT-KT) .. .. .	12	per doz. 4½	4596	Felt Packing for Rear crank case (LU) ..	1	per doz. 2½
2507	Spring Washers (KV-HS-GV-FT-ET-LS)	24	per doz. ½	4619	Studs for cylinder head (KR) .. ..	4	per doz. 10½
2508	Nuts for 5142-3401-2715-4901 (KV-GT-ES-HT) .. .. .	12	per doz. 2½	4822A	Arm supporting air pipe 4933 (ET) ..	1	— 13½
2508A	Bronze Nuts for manifold 4730B (LS-HS)	4	per doz. 2½	4864	Plain Washers (KP-FR) .. .. .	8	per doz. 1½
2715	Studs fixing 4822A on 5501 (FS) .. ..	2	per doz. 2½	4883B	Fan Cover (FV) .. .. .	1	1 7
2747A	Sparking Plug (LQ) .. .. .	1	— 4	4896	Short Studs for manifold 4730B (JS) ..	2	per doz. 4½
2748	C. & A. Washer for sp. plug (KQ) ..	1	per doz. 1½	4900	Studs fixing cylinder on crank case (JT)	4	per doz. 6½
2776	Drain Tap, complete (LV) .. .. .	1	— 1½	4901	Bolts fixing housing on crank case (HT)	2	per doz. 4½
3178	C. & A. Washer for cylinder head (KQ) ..	1	per doz. 6½	4905	Plain Washers (ES-HT) .. .. .	4	per doz. 1
3401	Bolts connecting 4534A & 4535 (JU) ..	6	per doz. 4½	4927	Studs fixing side plates on housing (FR)	4	per doz. 3½
4534A	Rear Crank Case, adjoining gear box (LT)	1	7 12	4972	Screws fixing housing on crank case (ET)	2	per doz. 3½
4535	Front Crank Case, forming fan sump (HV)	1	15 —	4992	Long Studs for manifold 4730B (KS) ..	2	per doz. 7½
4536A	Cylinder (JS) .. .. .	1	11 —	5142	Studs fixing side plates on housing (GT)	2	per doz. 2
4537A	Cylinder Head, normal for petrol fuel (JQ)	1	2 9½	5501	Housing supporting the tank (GR) ..	1	6 2
4595	Felt Packing for Front crank case (HU)	1	per doz. 2½	634B	Spring Washers (JP-ER-HT-KT) ..	12	per doz. 1½
				653	Screws fixing fan cover on 4535 (GV) ..	6	per doz. 2½
				73B	Fibre Joint for drain tap (LV) .. ..	1	per doz. 1







## INLET AND EXHAUST GROUP—

Part Ref. No.	Description of Part and location on plate.	Quantity per machine.	Weights lbs. ozs.	Part Ref. No.	Description of Part and location on plate.	Quantity per machine.	Weights lbs. ozs.
2507	Spring Washers for 3401-4901 (DR-BT-HS) ..	6	per doz. 2½	4898	C. & A. Washer for manifold (ER) ..	1	per doz. 8½
2508	Nuts for 3401-4933 (DR-BS-AU) ..	5	per doz. 2½	4899B	C. & A. Washer for exhaust pipe (FS) ..	1	per doz. 4½
2508A	Bronze Nuts for 4901 (GS) ..	2	per doz. 2½	4901	Bolts fixing exhaust pipe on manifold (JS) ..	2	per doz. 1½
3401	Bolts to carburettor flanges (BS-ER) ..	4	per doz. 4½	4914	C. & A. Washer between carb. and man. (DT) ..	1	per doz. 2½
4681	Body of air filter (BS) ..	1	— 14	4915	C. & A. Washer between carb. and air pipe (BT) ..	1	per doz. 2½
4682	Cage for air filter bag (BQ) ..	1	— 12	4933	Air Pipe with butterfly valve, assembly (AT) ..	1	— 15½
4683	Gauze for air filter (BR) ..	1	— 1½	5040	Plain Washer for 4933 (AU) ..	1	per doz. 4½
4684	Felt Ring on gauze 4683 (DR) ..	1	per doz. 4½	5041	Cardboard Washer for 4933 (AT) ..	1	per doz. 1
4685	Felt Ring on body of air filter (AQ) ..	1	per doz. 4½	5276	Exhaust Pipe with flange, assembly (HT) ..	1	1 —
4686	Leather Washer (AS) ..	1	per doz. 1½	5297	*Carburettor, complete (CS) ..	1	2 5
4730B	Manifold (ET) ..	1	3 1½				
4880	Canvas Bag (DQ) ..	1	— 1				
4881	Ring holding felt ring 4685 (AP) ..	1	per doz. 10½				

## \*CARBURETTOR DETAILS—

5277	Body (JP) ..	1	1 4½	5287	Float (HQ) ..	1	per doz. 7½
5278	Bowden Adjuster with lock nut (GP) ..	1	per doz. 4½	5288	Nut holding admission needle (EQ) ..	1	per doz. 1
5279	Top Disc (GP) ..	1	— 1½	5290	Union forming seat for admission needle (EP) ..	1	per doz. 8½
5280	Screws fixing top disc (HP) ..	2	per doz. 1	5290A	Gauze Sieve in 5290 (EP) ..	1	per doz. ½
5280A	Spring Washers for 5280 (HP) ..	2	per doz. ½	5291	Admission Needle (EP) ..	1	per doz. ½
5281	Jet Tube (FP) ..	1	— 1	5292	†Jet (FQ) ..	1	per doz. 1
5282	Choke Piston (HQ) ..	1	— 4½	5293	Jet Seating (JQ) ..	1	— 1
5283	Spring for choke piston (GQ) ..	1	per doz. 1	5294	Base Plug (JR) ..	1	per doz. 7½
5284	Tickler (GQ) ..	1	per doz. 1½	5295	Drain Screw (JR) ..	1	per doz. 2½
5284A	Split Pin for tickler (GR) ..	1	per doz. ½	5296	Fibre Joint for base plug (JR) ..	1	per doz. ½
5285	Spring for tickler (GQ) ..	1	per doz. ½	5298	Fibre Ring for float chamber (HQ) ..	1	per doz. 1
5286	Float Chamber (HR) ..	1	— 4				

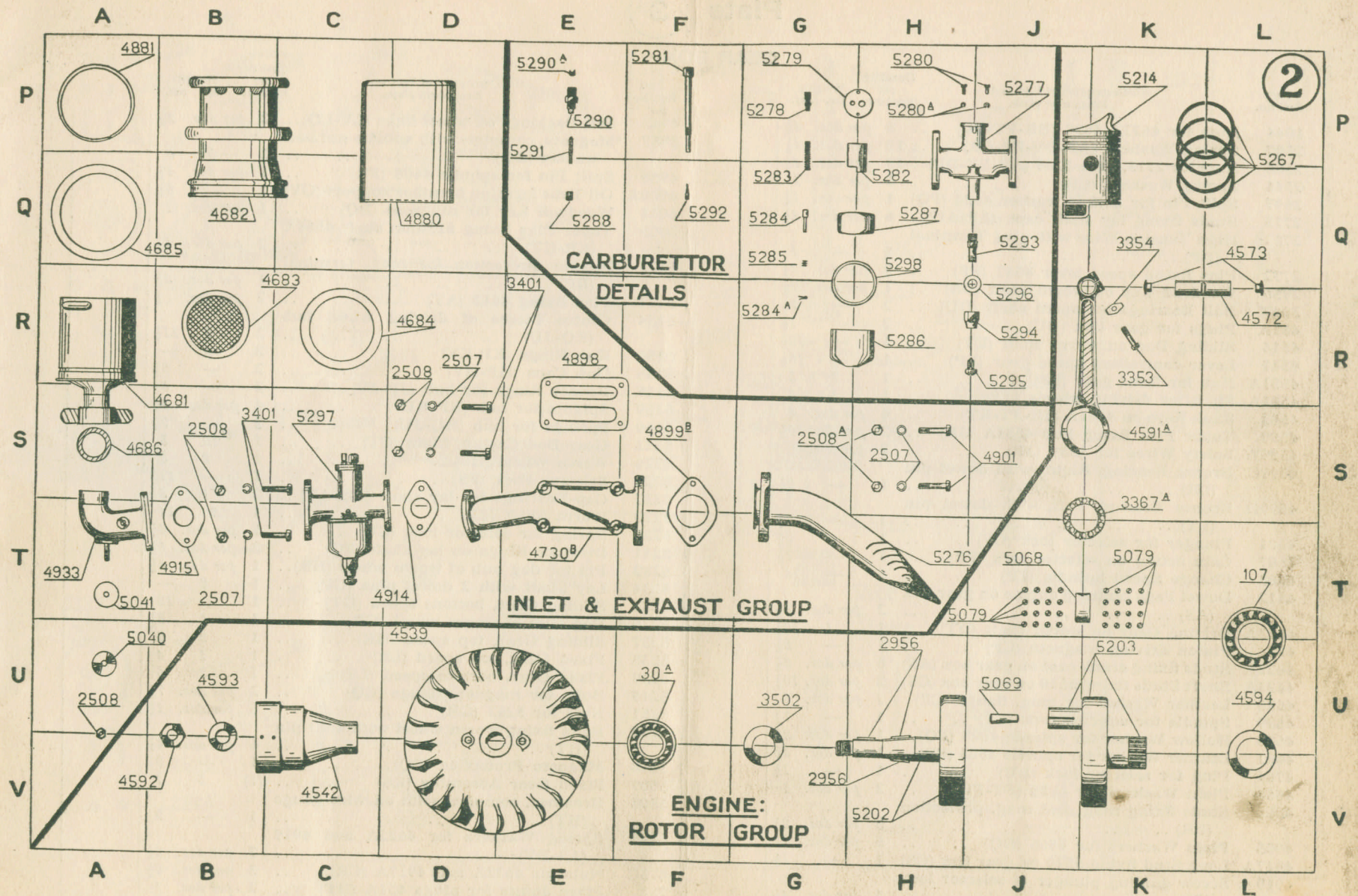
## ENGINE: ROTOR GROUP—

107	Ball Bearing for Rear shaft (LT) ..	1	— 11	4591A	Connecting Rod (KS) ..	1	— 12½
2956	Woodruff Keys for fan and pulley (HUGV) ..	3	per doz. 4½	4592	Nut for Front shaft (BV) ..	1	— 1½
30A	Ball Bearing for Front shaft (FU) ..	1	— 7½	4593	Plain Washer for Front shaft (BU) ..	1	per doz. 6½
3353	Screw for small end of con. rod (KR) ..	1	per doz. 4½	4594	Distance Washer on Rear shaft (LU) ..	1	per doz. 3½
3354	Locking Plate for 3353 (KQ) ..	1	per doz. ½	5068	Roller Race on crank pin (JT) ..	1	— 2
3367A	Roller Cage of big end (KS) ..	1	— 1½	5069	Wedge for crank pin (JU) ..	1	per doz. 10½
3502	Distance Washer on Front shaft (GU) ..	1	per doz. 4½	5079	Rollers for big end (JT-KT) ..	32	per doz. ¾
4539	Fan (DU) ..	1	11 2	5202	Front Shaft, assembly (HV) ..	1	8 12
4542	Pulley (CV) ..	1	2 6	5203	Rear Shaft-Crank Pin, assembly (KU) ..	1	9 3
4572	Gudgeon Pin (LR) ..	1	— 2½	5214	Piston with 4 Pegs (KP) ..	1	1 4½
4573	Pads for gudgeon pin (LQ) ..	2	per doz. 2½	5267	Piston Rings (LP) ..	4	per doz. 4½

\* Carburettor: The assembling of the carburettor is shown clearly on the section view which appears in the Manual supplied with each machine.

† Carburettor Jet: The jet (part No. 5292) normally fitted on machines when delivered is marked 90. This jet is suitable for use of petrol as fuel and will secure full engine power. A smaller jet marked 80 is supplied as spare in the tool kit with each machine and should be used for continuous very light work when using petrol as fuel. For other details, see Manual. For other fuels than petrol, see Manual.







## GEAR BOX—

Part Ref. No.	Description of Part and location on plate.	Quantity per machine.	Weights lbs. ozs.
1044	Nuts for 4622A-4629 (BR-FT-FV) ..	8	per doz. 4½
2507	Spring Washers (AP-BV-EP-CR) ..	13	per doz. 4½
2508	Nuts for 2715, 4866-5249 (AP-BV-DP) ..	13	per doz. 4½
2545	Spring Washers (CR) ..	3	per doz. 1
2697	Split Pin for hollow washer 4630 (FQ) ..	1	per doz. 1½
2715	Studs fixing lay shaft caps (AP-AU) ..	6	per doz. 4½
2753A	High Tension Wire with plug Terminal (BP) ..	1	— 1
2772	Pins fixing speed lever 4547 (FP) ..	2	per doz. 2½
2956	Woodruff Key on worm shaft (DS) ..	1	per doz. 4½
304X	Ball Bearings on worm shaft (DU) ..	2	— 7½
451A	Plugs for gear box (BU) ..	2	— 1½
4514	Sliding Dog on worm shaft (ET) ..	1	— 12½
4547	Lever controlling speed gear (EP) ..	1	— 10½
4551A	Hub for fixed gear (LS) ..	1	1 5
4581A	Shaft for driving wheels (JT) ..	1	3 3
4582	Sunk Keys on 4581A (JR-JT-KT) ..	4	per doz. 4
4589	Taper Pins fixing hub 4551A (JR) ..	2	per doz. 10½
4589W	Safety Wires for 4589 (JR) ..	2	per doz. 2
4599C	Bronze Bearing, Right, with dowel pin (LR) ..	1	— 9½
4599D	Bronze Bearing, Left, with dowel pin (LT) ..	1	— 9½
4601	Plunger for selector lock (CV) ..	1	— 2½
4607	Cam acting on selector fork (FR) ..	1	— 1½
4608	Change Speed Spindle (FP) ..	1	— 14
4612	Dowel Pegs centring engine on gear box (AS) ..	2	per doz. 8½
4613A	Driving Gear on worm shaft (DT) ..	1	1 10½
4614	Pinion driving magneto (CP) ..	1	— 2½
4622A	Studs fixing crank case on gear box (AS) ..	6	per doz. 6½
4623A	Short Studs fixing 5510 on gear box (CS) ..	2	per doz. 10½
4625	Leather Washer for mag. flange (CP) ..	1	per doz. 3
4629	Spindle for selector fork (FT) ..	1	— 7½
4630	Hollow Washer for spindle 4608 (FQ) ..	1	per doz. 2½
4631	Leather Washer for spindle 4608 (FR) ..	1	per doz. 1½
4764	Plug for selector lock (BU) ..	1	— 1½
4864	Plain Washers for 4629 (FT-FU) ..	2	per doz. 1
4866	Studs fixing mag. and mag. protection (BR) ..	5	per doz. 2½
4905	Plain Washers for 4866 (DQ) ..	5	per doz. 1
4917A	Long Stud fixing 5510 on gear box (CS) ..	1	— 1½
4919	Screw guiding plunger of selector lock (DV) ..	1	per doz. 4½

Part Ref. No.	Description of Part and location on plate.	Quantity per machine	Weights lbs. ozs.
4943	Felt Packings on wheel hubs (LV-LQ) ..	2	per doz. 2½
4957	*Magneto, complete with spindle nut and washer (BQ) ..	1	5 6
4958	Split Pin for spindle 4608 (FR) ..	1	per doz. 1½
4960A	Oil Tube forming breather support (GV) ..	1	— 6½
5011	Woodruff Key for magneto (BQ) ..	1	per doz. 1
5055	Taper Pins fixing 5154 on shaft 4581A (KR-KT) ..	2	per doz. 5½
5123	Rubber Protection for mag. terminal (BP) ..	1	per doz. 4½
5124	Pins fixing 4612 (AT) ..	2	per doz. ½
5154	Centre Pieces of driving wheel hub (KQ-JU) ..	2	4 11½
5155	Hub Rings (KP-KV) ..	2	4 —
5156	Hub Caps (HP-HV) ..	2	— 6½
5158	Bronze Rings for hub (JP-JV) ..	2	— 3½
5159	Spigots for hub (KP-KU) ..	4	per doz. 8½
5160	Springs for hub (HQ-JU) ..	2	— 9½
5223	Gear Box Casing, main (CT) ..	1	10 3
5225	Worm Wheel (HS) ..	1	2 3
5226	Selector Fork (FS) ..	1	— 11½
5227	Cap-Bearings for lay shaft (AQ-AT) ..	2	1 8½
5229	Worm Shaft (ER) ..	1	2 14
5230	Spring for selector lock (CU) ..	1	per doz. 4½
5231	Distance Rings on lay shaft (FQ) ..	2	per doz. 8½
5232	Pin for dog hub of worm wheel (HR) ..	1	per doz. 4½
5234	Lay Shaft with 2 dowel pins (GP) ..	1	2 —
5235	Sliding Gear, bottom speed (GT) ..	1	— 12
5236	Dog Hub of worm wheel (GR) ..	1	1 3½
5237	Sliding Gear, top speed (HR) ..	1	2 6
5238	Fixed Gear, top speed (LR) ..	1	1 4
5239	Fixed Gear, bottom speed (LS) ..	1	2 5
5249	Bolts for magneto flange (CQ) ..	2	per doz. 7½
5251	Nuts for 5252 (GR) ..	6	per doz. 1½
5252	Bolts fixing worm wheel with split pin (HT) ..	6	per doz. 4½
5258	Magneto Protection (EQ) ..	1	— 9
5507	Fixed Gear Assembly (KS) ..	(1)	5 1
5508	Breather, complete with oil wire gauge (HT) ..	1	— 9
634B	Spring Washers for 4622A and 4919 (AS-DV) ..	7	per doz. 2½
675C	Nuts for 4632A and 4917A (CR) ..	3	per doz. 6½
73F	Fibre Joints for plugs 451A (BT) ..	2	per doz. 1

\* Magneto: The component parts of the magneto are not shown in this booklet. If such parts are required consult the special parts list issued in connection with the magneto.







# Plate 4

## STEERING GROUP—

Part Ref. No.	Description of Part and location on plate.	Quantity per machine.	Weights lbs. ozs.
1023	Split Pin for change speed stop (HV)	1 per doz.	1½
1044	Nut for 2709 (JV) .. .. .	1 per doz.	4½
2697	Split Pins for 4630-4674 (FU-CR) ..	3 per doz.	1½
2709	Bolt fixing 5519 on 5510 (JU) .. ..	1 per doz.	10½
2772	Taper Pins for 4858A (GT) .. .. .	2 per doz.	4½
3149	Plain Washers for rods 4674 (BQ) ..	2 per doz.	2½
433H	Taper Pin for 4635A (DT) .. .. .	1 per doz.	1½
451A	Plug for steering column on 5510 (AS)	1 —	1½
4531B	Steering Swivel (BS) .. .. .	1 3	13½
4546	Lever for steering position control (CT)	1 —	5½
4548	Lever for miller control (FT) .. ..	1 —	8½
4550	Hand Grips for speed and miller rods (KQ-KR) .. .. .	2 —	4
4630	Hollow Washer on spindle 4858A (FU)	1 per doz.	2½
4631	Leather Washer on spindle 4858A (FU)	1 per doz.	1½
4634	Stop Screws on sector of 5510 (BU) ..	2 per doz.	4½
4635A	Spindle for steering position control (DT) .. .. .	1 —	6
4636	Spring for steering position control (DU)	1 per doz.	8½
4638	Coil Spring on miller lever 4548 (ES) ..	1 per doz.	2½
4639A	Long Bolt fixing guiding arm (AQ) ..	1 —	7½
4674	Control Rods, speeds and miller (DQ-ER)	2 1	3
4676	Control Rod, steering position (DQ) ..	1 —	9¾
4815	Turning Fork for miller control (GV) ..	1 —	4¾
4816	Sliding Fork for miller control (GV) ..	1 —	2¾
4858A	Spindle for miller control (FT) .. ..	1 —	14
4870	Bowden Lever, complete (LT) .. ..	1 —	4
4870A	Bowden Outer Member with Cap (KU)	1 —	6½

Part Ref. No.	Description of Part and location on plate.	Quantity per machine.	Weights lbs. ozs.
4870B	Bowden Wire with end Pieces (KV) ..	1 —	1½
4873B	Wrench for steering height (BP) .. ..	1 —	3½
4874	Clamp for Bowden control (EP) .. ..	1 per doz.	8½
4875	Bolt and Nut for clamp 4874 (CP) ..	1 per doz.	1½
4964A	Studs fixing miller gear box on 5510 (BV) .. .. .	2 —	1½
5072	Bush for spindle 4858A (DU) .. .. .	1 —	1
5073	Plug guiding spindle 4858A (DV) .. ..	1 —	3½
5083	Oil Cup on steering swivel (CS) .. ..	1 per doz.	2½
5171	Fibre Joint for plug 5073 (EU) .. ..	1 per doz.	½
5215	Change Speed Stop (HT) .. .. .	1 —	3
5216	Small Washers on 5215 (GU) .. .. .	2 per doz.	2½
5217	Large Washer on 5215 (HT) .. .. .	1 per doz.	4½
5218	Hand Lever for change speed stop (GU)	1 —	2¾
5219	Spring for 5215 (HV) .. .. .	1 per doz.	2½
5250	Vice for steering height (AP) .. .. .	1 —	4½
5253	Split Pin for change speed stop (GU) ..	1 per doz.	1
5282A	Split Plug fixing Bowden wire in carb. (KV) .. .. .	1 per doz.	½
5510	Intermediate Box, assembly (BU) .. ..	1 7	7
5518	Guiding Arms, assembly (GS) .. .. .	1 15	14
5519	Bracket and Speed Gate, assembly (KT)	1 1	11
5549	Hand Scraper (LS) .. .. .	1 —	10½
634B	Spring Washer for 2709 (JV) .. .. .	1 per doz.	1½
634C	Spring Washers for 4964A (BU) .. ..	2 per doz.	2½
635G	Nuts for 4964A (CU) .. .. .	2 per doz.	8½
66C	Split Pin for spindle 4858A (FV) .. ..	1 per doz.	2½
938	Thrust Washer for spring 4636 (DV) ..	1 per doz.	2½







# Plate 5

## ROTARY MILLER—

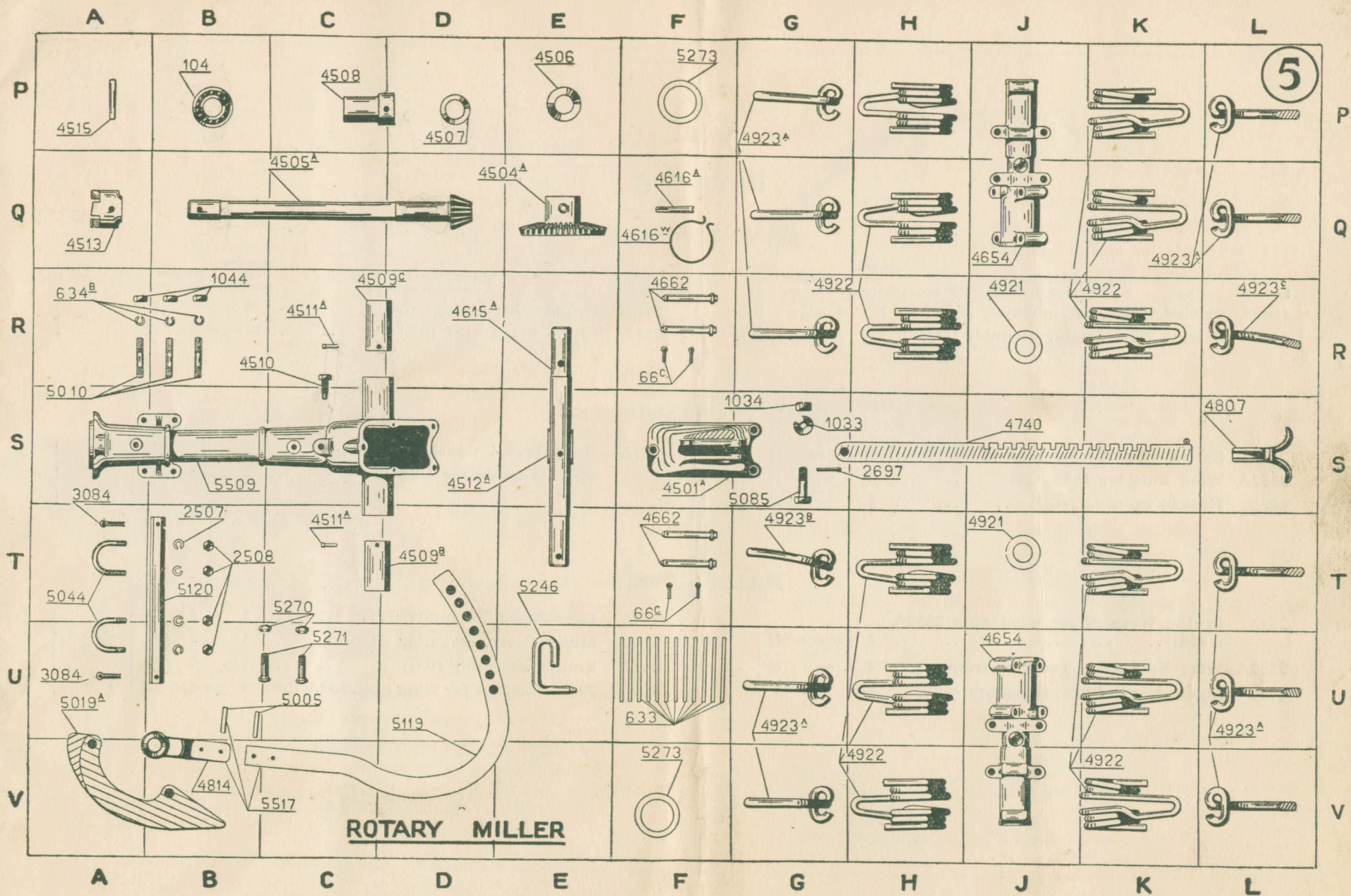
Part Ref. No.	Description of Part and location on plate.	Quantity per machine.	Weights lbs. ozs.
1033	Plain Washer for 5085 (GS) ..	1 per doz.	2½
1034	Castellated Nut for 5085 (GS) ..	1 per doz.	7½
104	Ball Bearing on bevel pinion (BP) ..	1 —	7
1044	Nuts for 5010 (BR) ..	3 per doz.	6½
2507	Spring Washers for bracket 5044 (BT) ..	4 per doz.	2½
2508	Nuts for bracket 5044 (BT) ..	4 per doz.	2½
2697	Split Pin for 5085 (HS) ..	1 per doz.	1½
3084	Split Pins on cross bar 5120 (AS-AU) ..	2 per doz.	2½
4501A	Cover for miller gear box (FS) ..	1 2	12½
4504A	Crown Wheel for miller drive (EQ) ..	1 2	—
4505A	Bevel Pinion for miller drive (CQ) ..	1 2	9½
4506	Thrust Washer for crown wheel, bronze (EP) ..	1 per doz.	8½
4507	Thrust Washer for bevel pinion (DP) ..	1 per doz.	8½
4508	Bronze Bush for bevel pinion (CP) ..	1 —	8½
4509B	Bronze Bush, left, for miller shaft (DT) ..	1 —	5
4509C	Bronze Bush, right, for miller shaft (CR) ..	1 —	5
4510	Stop Screw for bronze bush 4508 (CR) ..	1 per doz.	6½
4511A	Stop Pins for bronze bushes 4509B and C (CR-CT) ..	2 per doz.	1½
4512A	Sunk Keys on miller shaft (DS) ..	2 per doz.	6½
4513	Dog on bevel pinion (AQ) ..	1 —	10¾
4515	Taper Pin fixing dog 4513 (AP) ..	1 per doz.	6½
4615A	Miller Shaft (DR) ..	1 2	9½
4616A	Taper Pin holding crown wheel (FQ) ..	1 per doz.	6½
4616W	Safety Wire for 4616A (FQ) ..	1 per doz.	1
4654	Miller Sleeves (standard 20") (JQ-JU) ..	2 4	3

Part Ref. No.	Description of Part and location on plate.	Quantity per machine.	Weights lbs. ozs.
4662	Pins fixing miller sleeves (FR-FT) ..	4 per doz.	10½
4740	Ratchet Bar with split pin (JS) ..	1 1	5½
4807	Sliding Block (LS) ..	1 —	7
4814	Fork on depth bar (BV) ..	1 —	12½
4921	Felt Washers on miller shaft (JR-JT) ..	2 per doz.	1½
4922	Miller Springs (HR-HV-KR-KV) ..	12 1	4
4923A	*Normal Tines, Central (GP-GU-KQ-LU) ..	10 —	6¾
4923B	*Normal Tine, Left (GT) ..	1 —	6¾
4923C	*Normal Tine, Right (LR) ..	1 —	6¾
5005	Rivets fixing fork on depth bar (CU) ..	2 per doz.	2½
5010	Studs fixing cover 4501A (AS) ..	3 per doz.	6½
5019A	Depth Shoe (AU) ..	1 2	9
5044	Brackets holding cross bar 5120 (AT) ..	2 per doz.	8½
5085	Bolt fixing ratchet bar (GS) ..	1 —	1
5119	Depth Bar (DU) ..	1 2	5½
5120	Miller Cross Bar (BT) ..	1 —	14¾
5246	Depth Setting Pin (ET) ..	1 —	3½
5270	Nuts for bolt 5271 (CT) ..	2 per doz.	2½
5271	Bolts fixing depth shoe (CU) ..	2 per doz.	6½
5273	†Leather Washers for miller sleeves (FP- FV) ..	2 per doz.	1¾
5509	Miller Gear Box, assembly (BS) ..	1 10	13
5517	Depth Bar with fork, assembly (CV) ..	1 3	1½
633	Pins fixing miller springs (FU) ..	12 per doz.	2½
634B	Spring Washers for 5010 (AR) ..	3 per doz.	1½
66C	Split Pins for pins 4662 (FR-FT) ..	4 per doz.	2½

\* For details of tines, see page Seventeen.

† The leather washers 5273 are not generally fitted on the new machine when delivered. They are supplied as spare in the tool kit and should be inserted when, after extensive use, wear has set in to an extent justifying their purpose.







# Plate 6

## DRIVING WHEELS—

Part Ref. No.	Description of Part and location on plate.	Quantity per machine.	Weights lbs. ozs.	Part Ref. No.	Description of Part and location on plate.	Quantity per machine.	Weights lbs. ozs.
4668A	Driving Wheel, left, assembly (EP) ..	1	18 —	5157	Composition Linings (BQ) ..	4	— 3½
4669A	Driving Wheel, right, assembly (EQ) ..	1	18 —	5167	Rivets fixing 5157 (BR) ..	12 per doz.	1¼

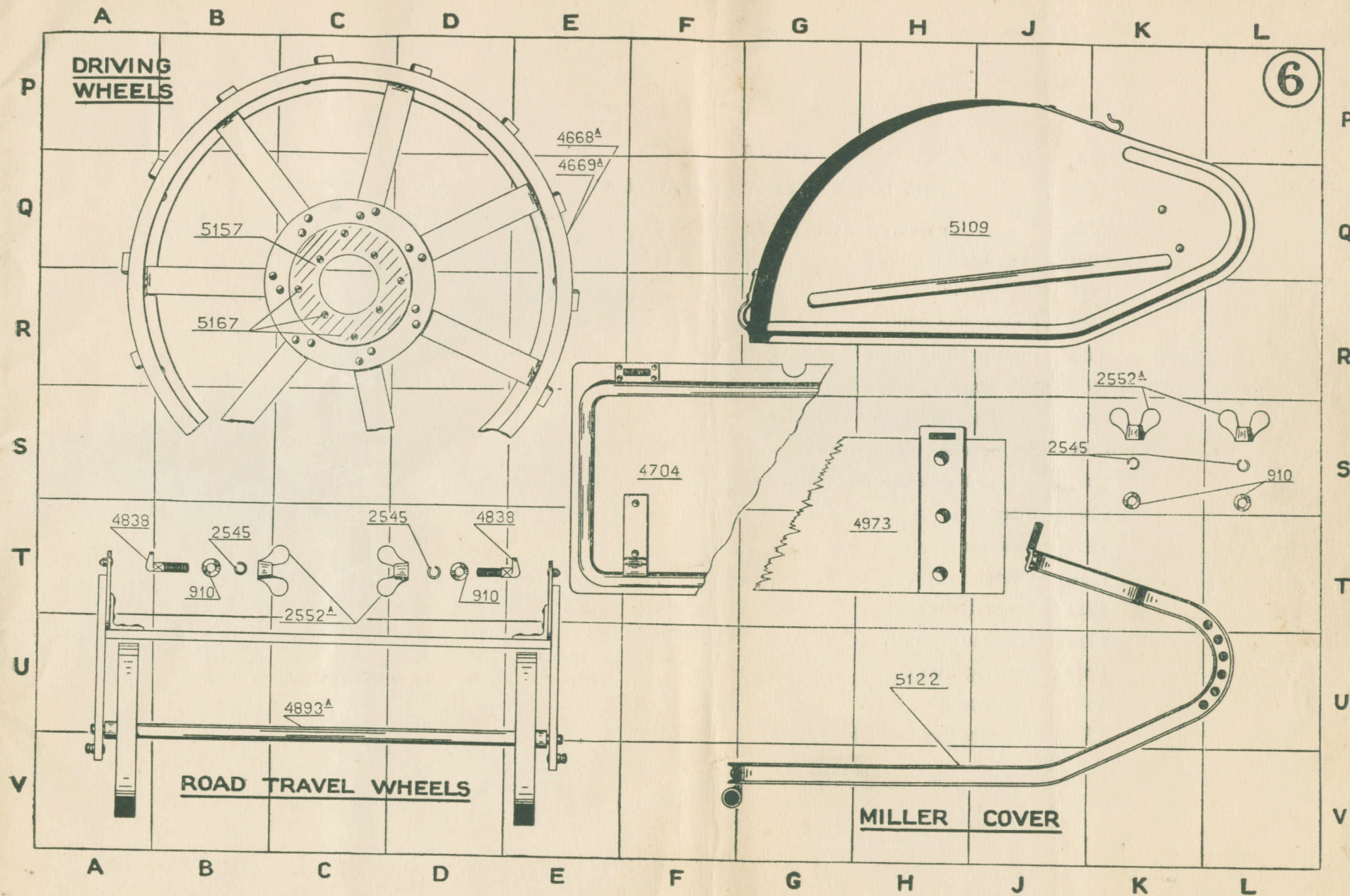
## ROAD TRAVEL WHEELS—

2545	Spring Washers for 4838 (BT-DT) ..	2 per doz.	1¼	4893A	Road Travel Wheels, assembly (CU) ..	1	11 9
2552A	Wing Nuts for 4838 (CT) ..	2	— 1½	910	Plain Washers for 4838 (BT-DT) ..	2 per doz.	2¼
4838	Hooked Bolts (AT-DT) ..	2	— 1½				

## MILLER COVER—

2545	Spring Washers for wing nuts 2552A (JS) ..	2 per doz.	1¼	4973	Dust Board, assembly (HT) ..	1	2 5
2552A	Wing Nuts fixing cover on frame (KR) ..	2	— 1½	5109	Miller Cover, assembly (HQ) ..	1	13 —
4704	Miller Baffle Plate, assembly (FS) ..	1	3 5	5122	Frame, assembly (HU) ..	1	6 10
				910	Plain Washers for wing nut 2552A (LS) ..	2 per doz.	2¼







## TOOLS

(THE TOOLS ARE NOT ILLUSTRATED)

Part Ref. No.	Description of Tool.	Quantity supplied per m/c.	Weight ozs.
1200	Tool Kit .. .. .	1	6
1201	Oil Can .. .. .	1	1
1202	Punch, fine point .. .. .	1	2
1203	Punch, blunt point .. .. .	1	2½
1204	Set Spanner, single end .. .. .	1	1½
1205	Set Spanner, double ended .. .. .	1	4½
1206	Set Spanner, double ended .. .. .	1	12
1207	Set of 3 Box Spanners with tommy bar ..	1	16
1208	Funnel .. .. .	1	4½
1209	Hammer .. .. .	1	19
1210	Pliers .. .. .	1	7
1211	Screw Driver .. .. .	1	3
1212	Magneto Spanner .. .. .	1	½
4903	Starting Strap .. .. .	1	8
4944	Oil Measure .. .. .	1	9
5200	Wrench Bar for hub caps .. .. .	1	13



## Tines

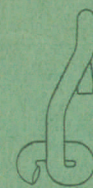
The reference number for the tines is 4923, irrespective of the shape of the tine.

The various types of tines are distinguishable by the letter following the reference number 4923.

					Weight ozs.
4923 A	Normal tine, central	..	..		$6\frac{3}{4}$
4923 B	" " left	..	..		$6\frac{3}{4}$
4923 C	" " right	..	..		$6\frac{3}{4}$
4923 D	Broad Scuffling tine, central	..	..		10
4923 E	" " left	..	..		9
4923 F	" " right	..	..		9
4923 G	Narrow Scuffling tine	..	..		9
4923 H	Knife tine, central	..	..		5
4923 I	" " left	..	..		5
4923 K	" " right	..	..		5
4923 L	Curved Knife tine, centre left	..	..		$5\frac{1}{4}$
4923 M	" " " " right	..	..		$5\frac{1}{4}$
4923 N	" " " inter left	..	..		$5\frac{1}{2}$
4923 P	" " " " right	..	..		$5\frac{1}{2}$

For information regarding various arrangements and combinations of tines, refer to the Chapter in the Rototiller 5 Manual, dealing with Tines and Springs.

4923



B



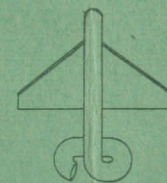
A



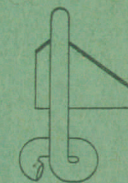
C



E



D



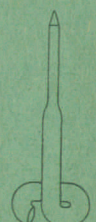
F



G



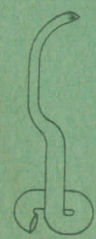
I



H



K



N



L



M



P