

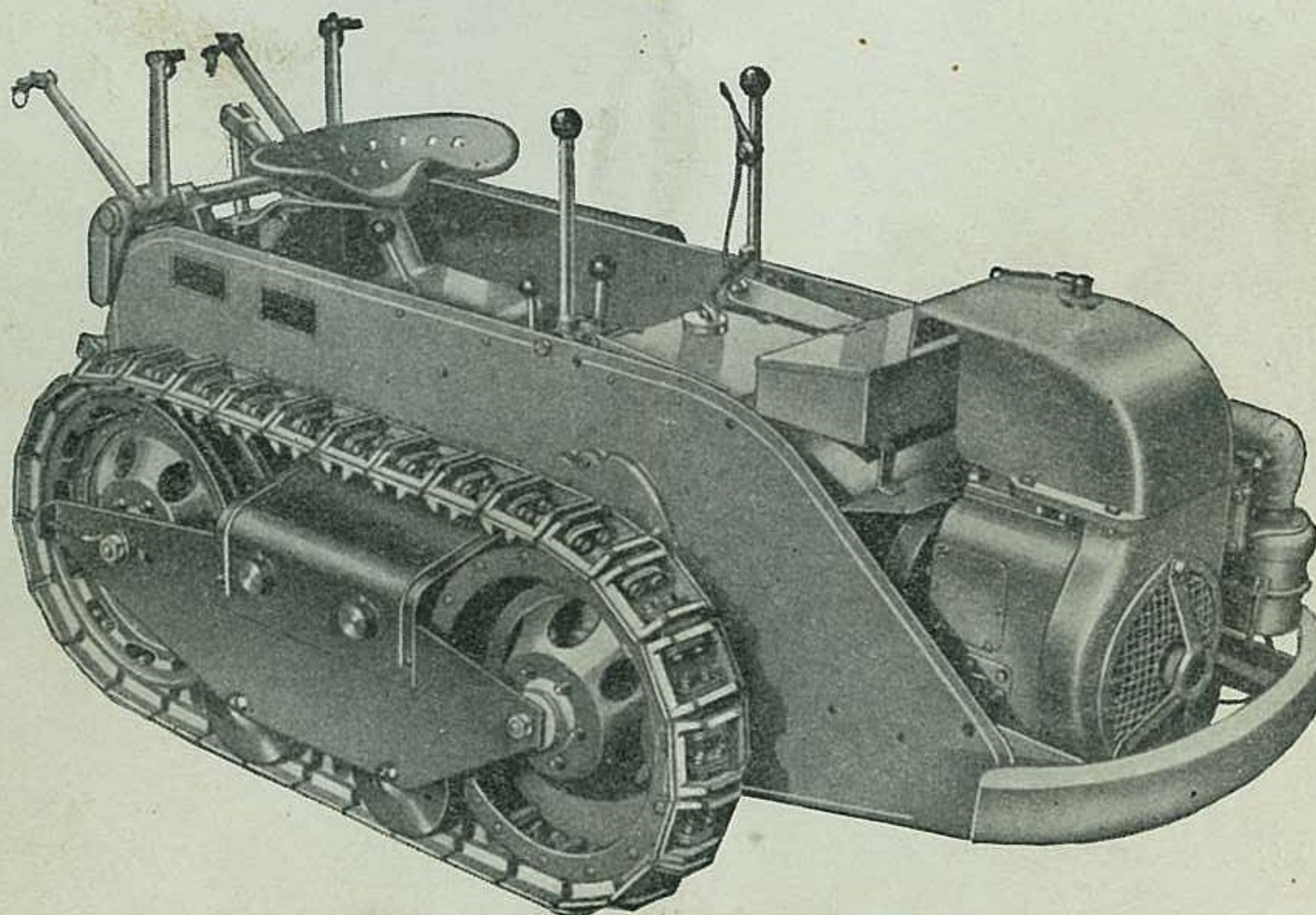
**LIST OF PARTS FOR**

*TARIF*

*1965*

# **Ransomes**

## **M.G.6 TRACTORS**



**RANSOMES SIMS & JEFFERIES, LTD.**  
**IPSWICH** **ENGLAND**

Telegrams:  
RANSOMES, IPSWICH

Telephone:  
IPSWICH 54711



**LIST OF PARTS FOR**

**Ransomes**  
**M.G.6 & ITC**  
**TRACTORS**

**Ransomes Sims & Jefferies Ltd., Ipswich, England**

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# INDEX OF COMPONENT ASSEMBLIES FOR TRACTOR WITH PETROL ENGINE OR V.O. ENGINE

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This Parts List, which should be carefully preserved, is provided for your convenience, and to ensure that you order the correct parts for your particular model.

Illustrations of parts must be taken as a guide only to identification. When a part is strengthened or otherwise redesigned, it is given a new mark, and it is not always possible to show this in the illustration. Reference should always be made to the list itself, where both old and new part numbers are given. Failure to do this may result in an incorrect part being supplied.

Always give the part number and description of the part, together with the mark of the implement.

NOTE. All nuts not quoted in this list are of the standard U.F. thread type.

All lockwashers not quoted are of the standard single coil type.

All plain washers not quoted are bright washers to B.S.F. standards.

All shafts, studs, etc., are supplied complete with nuts, keys, split pins and washers where applicable.

Parts which are bushed are supplied with bushes already pressed in position.



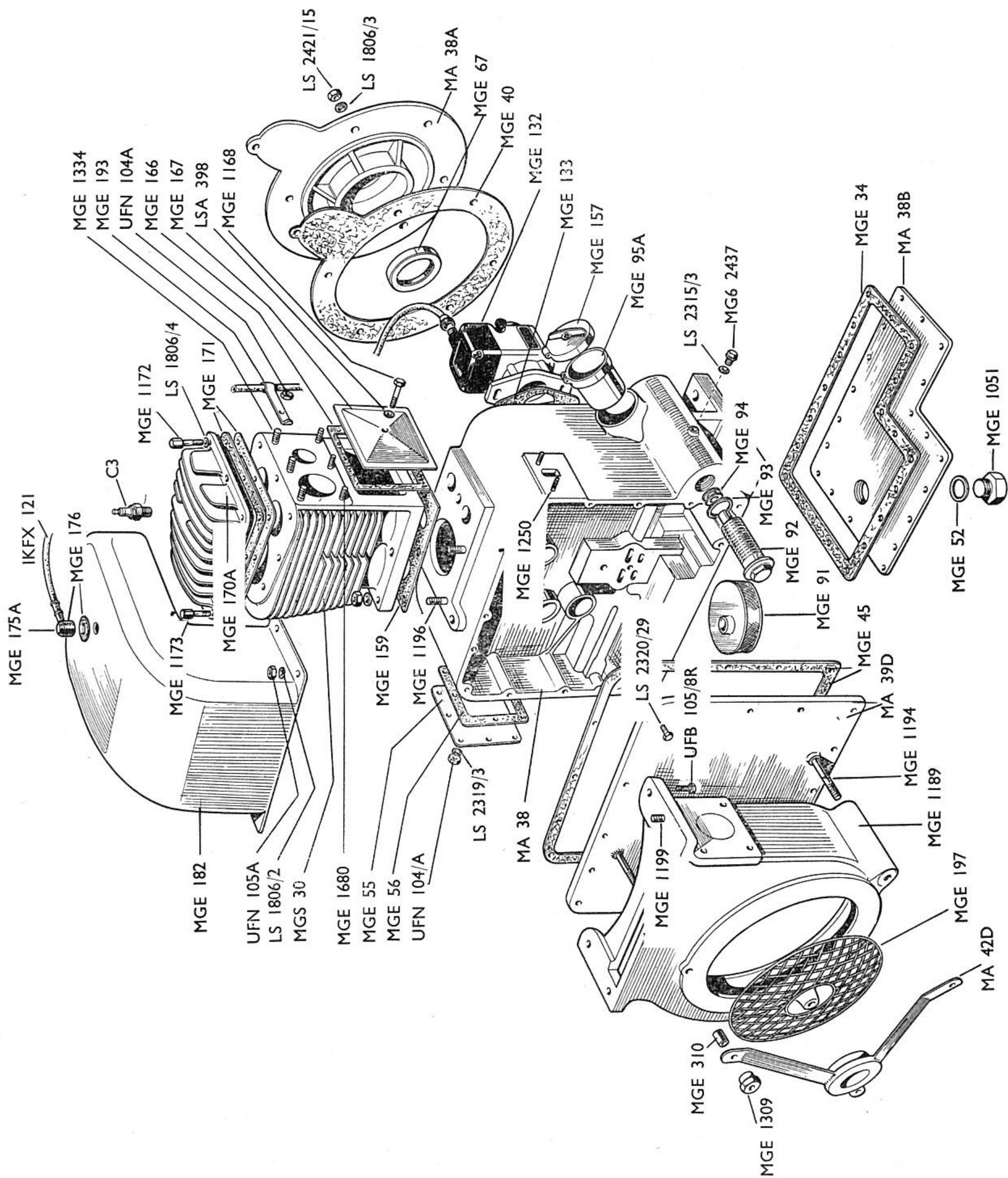


Fig. 1



# LIST OF PARTS

## CYLINDER HEAD, VALVE CHEST & EXHAUST

MGS 30	Cylinder barrel with valve guides.
MGS 38	Cylinder barrel complete with valves.
C 3	Spark plug (Lodge)
LSA 398	Fibre washer valve chest bolt.
MGE 159	Cylinder base joint.
MGE 166	Valve chest cover.
MGE 167	Valve chest cover joint.
MGE 170A	Cylinder head.
MGE 171	Cylinder head joint.
MGE 175A	Suppressor and plug cap.
MGE 176	Terminal cover seal.
MGE 193	Clip for sparking plug lead.
†MGE 272	Gasket induction pipe.
MGE 336	Gasket induction pipe.
MGE 1168	Valve chest cover bolt.
MGE 1172	Cylinder head bolt (long).
MGE 1173	Cylinder head bolt (short).
†MGE 1334	Studs induction pipe (4 off).
‡MGE 1334	Studs induction pipe (2 off).
‡MGE 1338	Studs exhaust manifold.
†MGE 1345	Induction pipe.
‡MGE 1662	Throttle control bracket.
‡MGE 1669	Induction pipe.
‡MGE 1677	Exhaust manifold.
‡MGE 1678	Gasket exhaust manifold.
‡MGE 1680	Studs exhaust manifold.

## CRANKCASE AND COVERS

MA 38	Crankcase assembly with timing side main bearing, all studs and oil filler tube
MA 38 A	Crankcase cover plate driving side with oil seal and main bearing.

MA 38 B	Sump Plate with drain plug.
MA 39 D	Timing gear cover with oil seal.
LS 2315/3	Fibre washer for crankcase plugs.
LS 2320/29	Socket head screw timing cover.
LS 2421/15	Self lock nuts crankcase cover studs $\frac{5}{16}$ " UF.
MG6/2437	Plugs crankcase.
MGE 34	Joint sump plate.
MGE 37	Fibre washer plug for filter chamber.
MGE 40	Joint crankcase cover plate.
MGE 45	Joint timing gear cover.
MGE 52	Washer drain plug.
MGE 55	Crankcase inspection plate.
MGE 56	Joint inspection plate.
MGE 66	Dowel timing side thrust washer.
MGE 122	Bearing housing magneto shaft.
MGE 143	Plug crankcase oil ways.
MGE 145	Joints crankcase plugs
MGE 157	Oil filler cap.
MGE 1036	Plug filter chamber.
MGE 1039	Crankcase cover plate driving side.
MGE 1041	Studs crankcase cover.
MGE 1044	Timing gear cover.
MGE 1048	Sump plate welded assembly.
MGE 1051	Drain plug sump.
MGE 1071	Studs oil pump body.
MGE 1120	Oil filler tube welded assembly.
MGE 1123	Studs magneto shaft housing.
MGE 1123	Studs inspection plate.
MGE 1123	Studs sump plate.
MGE 1134	Studs magneto.
MGE 1146	Cylinder base studs.
MGE 1194	Studs bottom half of fan bowl.
MGE 1250	Studs fuel pump.
MGE 1311	Nuts fuel pump studs.

† For engines with concentric carburettor up to No. 7230.

‡ For engines with butterfly carburettor from No. 7231 onwards.



## PISTON AND CONNECTING ROD

MA 41 B	Connecting rod and piston assembly complete.
MGS 29	Connecting rod assembly with standard bearings.
MGS 29 A	Connecting rod assembly with 0.010" bearings.
MGS 29 B	Connecting rod assembly with 0.020" bearings.
MGS 29 C	Connecting rod assembly with 0.030" undersize big end bearing.
MGS 36	Piston assembly standard rings.
MGS 36 A	Piston assembly 0.020" oversize rings.
MGS 36 B	Piston assembly 0.030" oversize rings.
LS 2317/17	Circlips gudgeon pin.
MGE 22	Big end bearing connecting rod (sold in pairs).
MGE 23	Small end bearing.
MGE 27	Gudgeon pin.
MGE 1019	Bolts connecting rod.
MGE 1020	Nuts connecting rod bolts.
MGE 1025	Piston rings (compression) standard size.
MGE 1025 A	Piston rings (compression) 0.020" oversize
MGE 1025 B	Piston rings (compression) 0.030" oversize
MGE 1026	Piston ring (oil control) standard size.
MGE 1026 A	Piston ring (oil control) 0.020" oversize.
MGE 1026 B	Piston ring (oil control) 0.030" oversize.

## CRANKSHAFT AND MAIN BEARINGS

MGS 31	Crankshaft assembly with keys and nut.
LS 2574/11	Key crankshaft pinion (Woodruff No. 110).
LS 2574/14	Key flywheel (Woodruff No. 150).
MGE 5	Key fan boss.
MGE 8	Crankshaft pinion.
MGE 10	Washer fan boss.
MGE 14	Shim crankshaft driving side (0.005" thick).
MGE 15	Shim crankshaft driving side (0.009" thick).
MGE 16	Shim crankshaft driving side (0.012" thick).
MGE 17	Shim crankshaft timing side (0.005" thick).
MGE 64	Bearing timing side (Vandervell B/2276).
MGE 65	Thrust washer ditto (Vandervell L/1101).
MGE 67	Oil seal main bearing drive side (Super-seals 375124).
MGE 68	Oil seal main bearing timing side (Super-seals 30024).
MGE 1006	Nut flywheel.
MGE 1011	Securing screw fan washer.
NFM 45	Roller bearing drive side (Skefko).



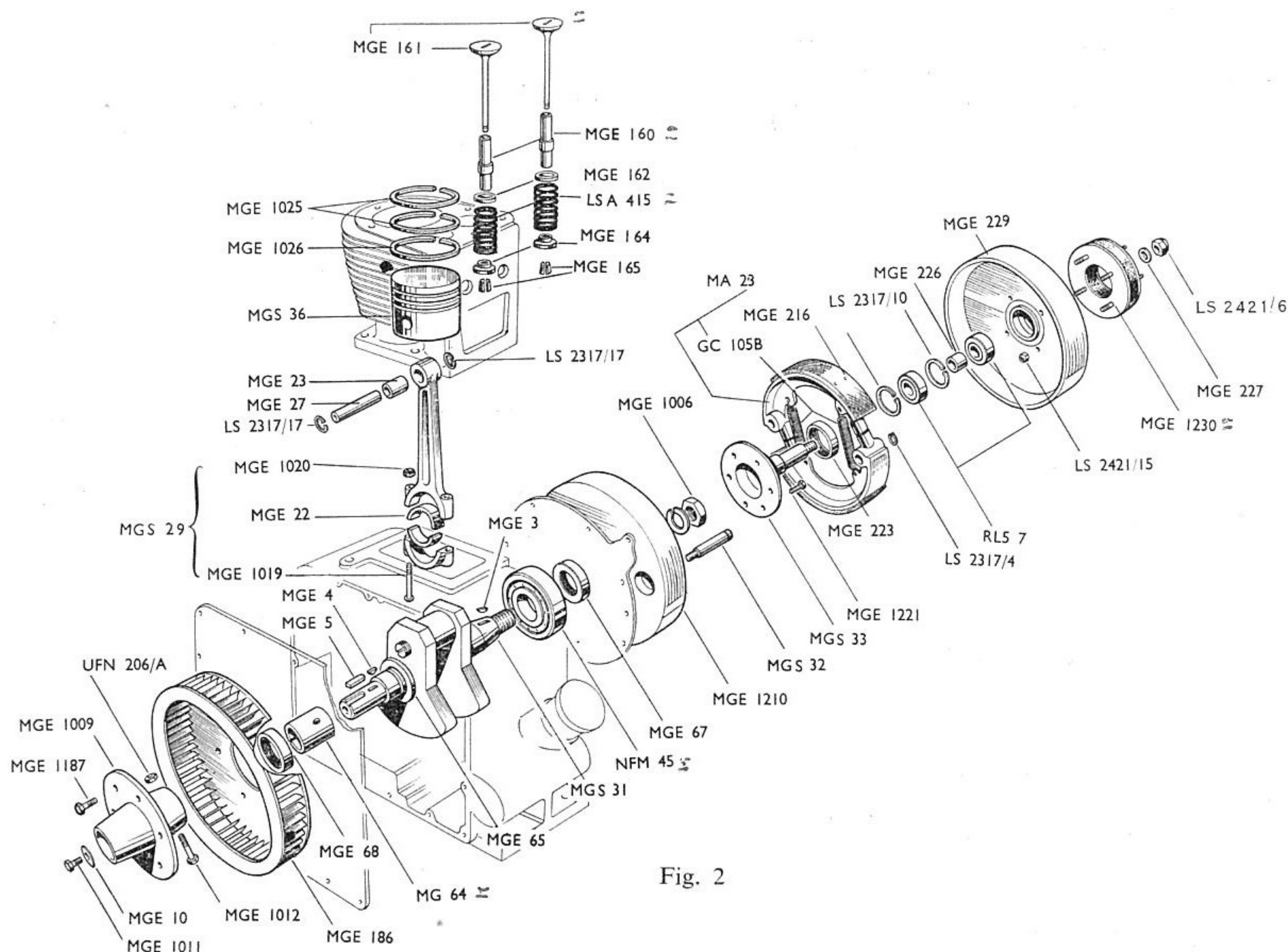


Fig. 2

## FLYWHEEL AND CENTRIFUGAL CLUTCH (Fig. 2)

MA 23	Clutch shoe assembly complete with springs.
MGS 32	Clutch shoe pin, with nut and circlip.
MGS 33	Clutch shaft, with nut and washer.
GC 105 B	Springs clutch shoes.
LS 2317/4	Circlips clutch shoe studs $\frac{7}{8}$ " external.
LS 2317/10	Circlips clutch shaft bearings 2" internal.
LS 2421/6	Self lock nut clutch shaft $\frac{1}{2}$ " UF.
LS 2421/18	Self lock nuts metalistic coupling $\frac{5}{16}$ " UF.
MGE 216	Clutch shoe linings.
MGE 217	Rivets for ditto.
MGE 219	Rubber buffer clutch shoes.
MGE 223	Oil seal clutch ring.
MGE 226	Distance piece ball bearings.
MGE 227	Washer clutch shaft.
MGE 229	Clutch ring welded assembly.
MGE 1210	Flywheel.
MGE 1221	Securing screws clutch shaft.
MGE 1230	Metalastic coupling.
RLS 7	Ball bearings clutch shaft.



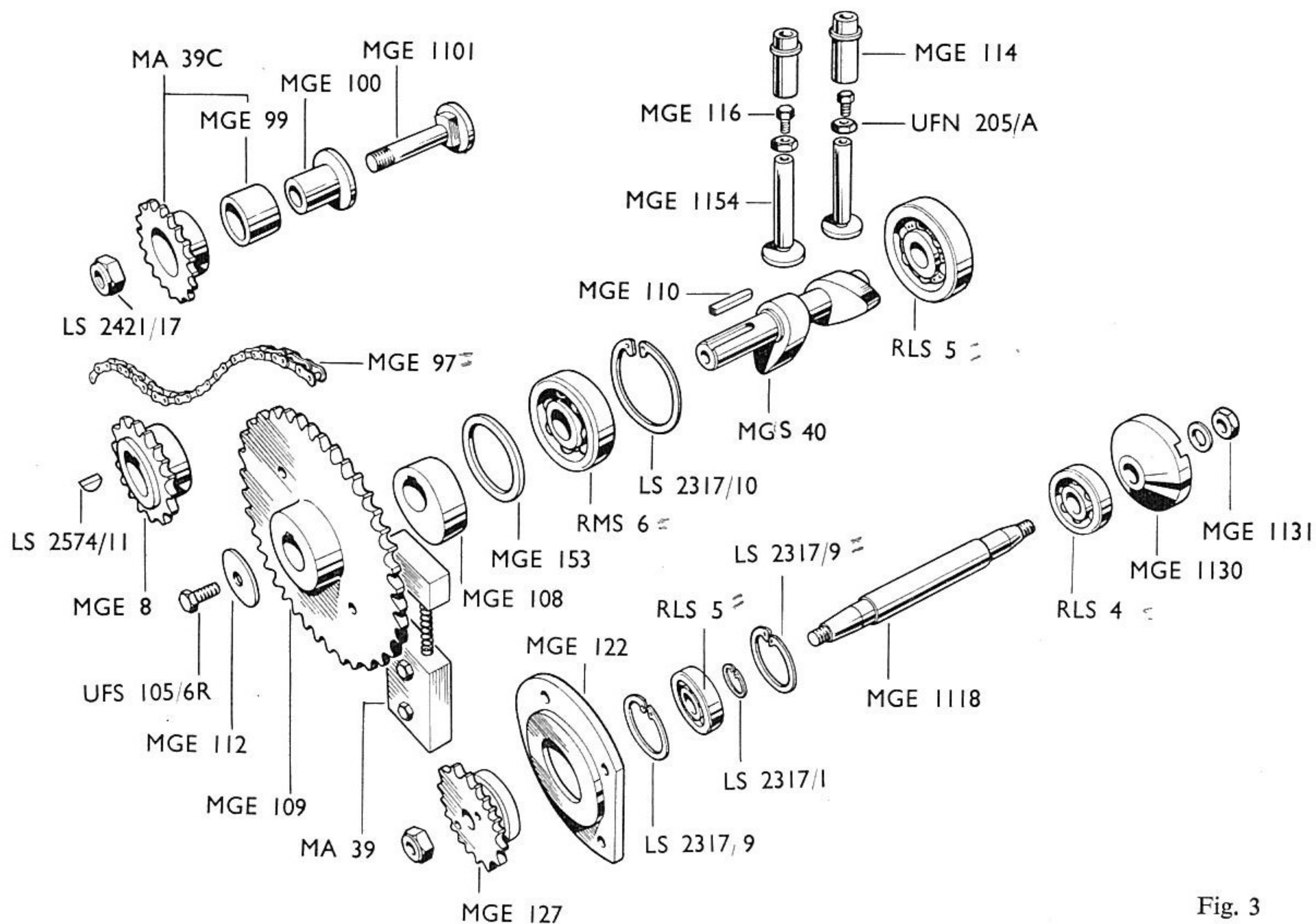


Fig. 3

## VALVES AND CAMSHAFT FITTINGS

(Fig. 2, 3)

MGS 40	Camshaft assembly.
LS 2317/10	Circlip camshaft bearing (timing side) 2" internal.
LSA 415	Valve springs.,
MGE 108	Eccentric oil pump drive.
MGE 109	Camshaft chain wheel.
MGE 110	Key for ditto.
MGE 111	Shims chain wheel.
MGE 112	Washer camshaft.
MGE 114	Tappet guide.
MGE 153	Distance ring camshaft.
MGE 160	Valve guide.
MGE 161	Valves.
MGE 162	Valve spring cap (top).
MGE 164	Valve spring collar.
MGE 165	Valve spring collar.
MGE 1116	Tappet adjusting screw.
MGE 1154	Tappet.
RLS 5	Ball bearing camshaft driving side.
RMS 6	Ball bearing camshaft timing side.
UFS 105/6R	Screw camshaft.

## MAGNETO AND MAGNETO DRIVE

(Fig. 3)

LS 2317/1	Circlip magneto shaft bearing (timing side) $\frac{5}{8}$ " external.
LS 2317/9	Circlip magneto shaft bearing (timing side) $1\frac{9}{16}$ " internal.
MGE 97	Magneto shaft camshaft drive chain.
MGE 127	Magneto drive pinion petrol pump cam.
§MGE 132	Magneto (Wico type A/1009 C Z).
MGE 133	Joint for ditto.
MGE 1118	Magneto shaft.
MGE 1130	Magneto drive coupling.
MGE 1131	Nut for ditto $\frac{3}{8}$ " UF $\times$ $\frac{1}{4}$ " thick.
RLS 4	Ball bearing magneto shaft.
RLS 5	Ball bearing magneto shaft (timing side).

§ For spares for magneto see separate list attached.

## CHAIN TENSIONER SPROCKET (Fig. 3)

MA 39 C	Chain tensioner sprocket and bush.
LS 2421/17	Self lock nut chain tensioner bolt.
MGE 99	Bush chain tensioner sprocket.
MGE 100	Boss chain tensioner sprocket.
MGE 1101	Bolt for ditto.



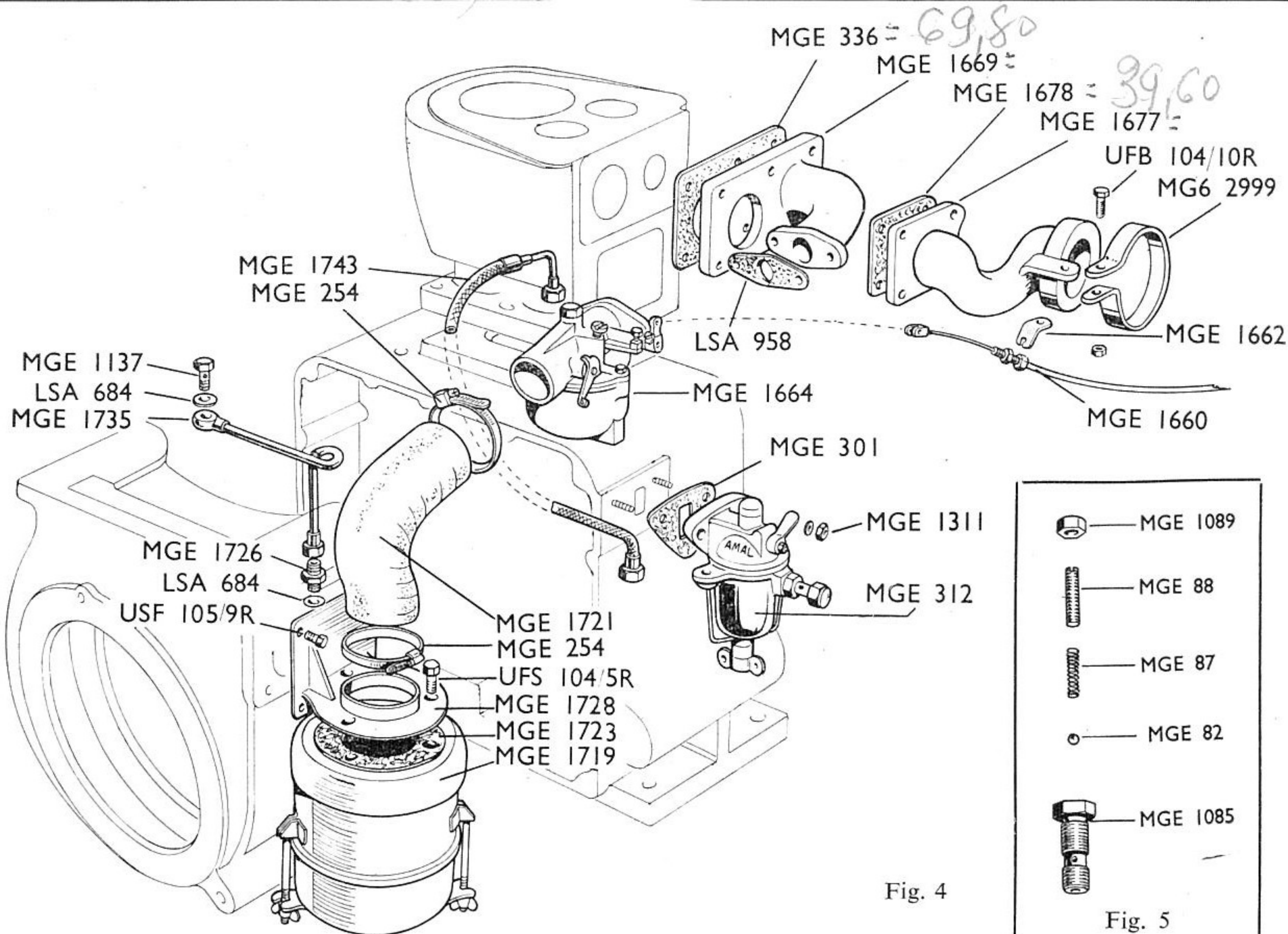


Fig. 4

Fig. 5

### LUBRICATING SYSTEM (Figs. 1, 3, 5, 6)

MA 18 A	Oil pump body and plunger
MA 39	Oil pump complete.
MA 39 A	Relief valve assembly.
*MGE 69	Oil pump body.
MGE 70	Joint for ditto.
*MGE 75	Pump plunger (suction).
*MGE 76	Pump plunger (feed).
MGE 77	Pump plunger crosshead.
MGE 78	Pump plunger spring (suction).
MGE 79	Pump plunger spring (feed).
MGE 81	Joint ball valve casing (pump).
MGE 81	Joint relief valve casing.
MGE 82	Ball valve pump.
MGE 82	Ball relief valve.
MGE 83	Pump ball valve spring.
MGE 87	Relief valve spring.
MGE 88	Adjusting screw relief valve.
MGE 90	Tube suction filter.
MGE 91	Suction oil filter.
MGE 92	Strainer element (Lolos).
MGE 93	Joint for ditto.
MGE 94	Felt washers strainer.
MGE 1080	Ball valve casing pump.
MGE 1084	Plug for ditto.
MGE 1085	Relief valve casing.
MGE 1089	Locknut relief valve adjusting screw.

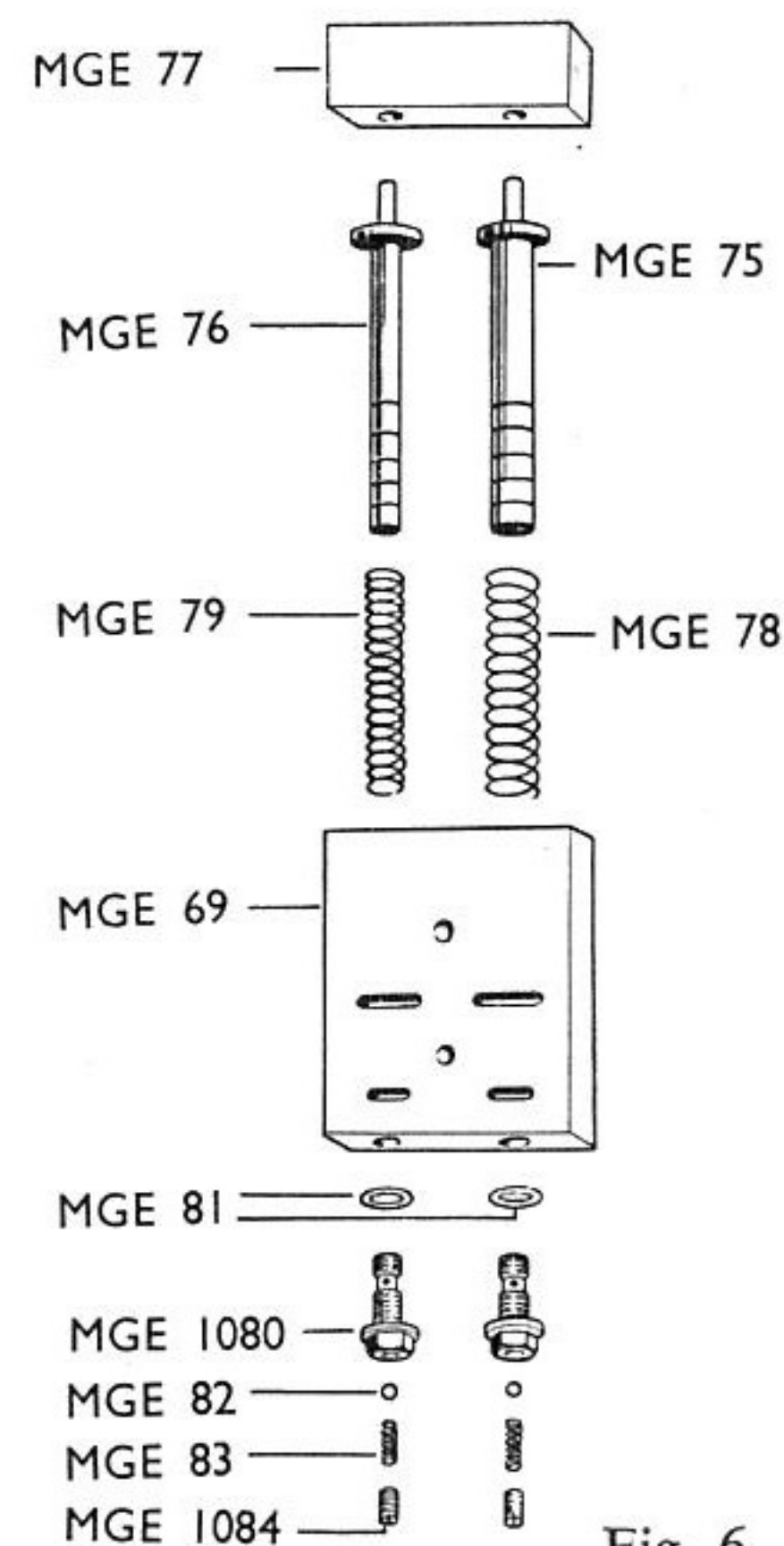


Fig. 6



### FUEL FEED AND AIR INTAKE FOR ENGINES No. 7231 ONWARDS (Fig. 3, 4)

LS 2315/3	Fibre washer float chamber plug.
MG 6/2437	Plug carburettor float chamber.
LSA 684	Fibre washer breather pipe.
LSA 684	Joint breather pipe union.
LSA 958	Joint carburettor.
MGE 254	Clips hose pipe.
MGE 298	Control lever carburettor.
MGE 301	Joint fuel pump.
MGE 312	Fuel pump.
MGE 1137	Screw breather pipe.
MGE 1658	Screws carburettor flange.
MGE 1660	Carburettor control cable
MGE 1664	Carburettor with control cable (petrol).
MGE 1664A	Carburettor with control cable (V.O.)
MGE 1719	Air cleaner (Vokes)
MGE 1721	Hose pipe connection.
MGE 1723	Cork washer air cleaner.
MGE 1726	Union air cleaner and breather pipe.
MGE 1728	Air cleaner bracket.
MGE 1735	Breather pipe.
MGE 1743	Flexible pipe pump to carburettor.
UFS 104/5 R	Screws air cleaner.
UFS 105/9 R	Screws air cleaner bracket.

### FUEL FEED AND AIR INTAKE FOR ENGINES UP TO No. 7230

C 9714	Air cleaner (Vokes).
SD 5307	Cork washer air cleaner.
LSA 684	Washer breather pipe screw.
LSA 958	Flange Joint carburettor.
LSA 1007	Locknut angle union.
LSA 1025	Washer angle union.
MG 5/481	Angle union breather pipe.
MG 6/2522	Screws carburettor.
MGE 254	Clips hose pipe.
MGE 298	Carburettor control lever (throttle).
MGE 301	Joint fuel pump.
MGE 312	Fuel pump and filter.
MGE 379	Flexible pipe pump to carburettor.
MGE 1137	Screws breather pipe.
MGE 1140/A.	Breather pipe assembly.
MGE 1248	Hose pipe connection.
MGE 1262	Air cleaner bracket.
MGE 1325	Concentric carburettor.
MGE 1331	Carburettor control cable.
UFS 105/9 R	Screws air cleaner.
UFS104/5R	Screws air cleaner bracket.

### COOLING SYSTEM AND STARTING HANDLE SUPPORT (Fig. 1)

MA 42 C	Fan cowl bottom half with guard.
MA 42 D	Starting handle bracket welded assembly
LS 2421/18	Self lock nuts fan and boss $\frac{1}{4}$ " UF.
MGE 182	Fan cowl top half.
MGE 186	Fan.
MGE 197	Fan guard.
MGE 200	Screws fan guard.
MGE 202	Clips fan guard.
MGE 310	Distance washer fan cowl and starting bracket.
MGE 1009	Fan boss.
MGE 1012	Bolt fan boss.
MGE 1187	Fan securing bolts.
MGE 1189	Fan cowl bottom half.
MGE 1199	Stud top and bottom fan cowls.
MGE 1199	Stud air cleaner bracket.
MGE 1309	Dome nuts fan cowl and starting bracket.
MGE 1357	Starting Handle
UFB 105/8 R	Bolt top and bottom fan cowls.



## MISCELLANEOUS CONVERSION SETS FOR 600 cc. ENGINES

MGS 72 A	Set of parts to convert petrol tractor fitted with concentric type carburettor to petrol tractor with Butterfly type carburettor and exhaust manifold.
MGS 81 A	Set of parts to convert petrol tractor with concentric carburettor to tractor with concentric carburettor and exhaust manifold or to convert existing V.O. tractor with concentric carburettor to <i>petrol</i> tractor with exhaust manifold. (Applicable to tractors up to and including No. 10693).
MGS 81 B	Set of parts to convert V.O. tractor with Butterfly carburettor to <i>petrol</i> with exhaust manifold. (Applicable to tractors No. 10694 onwards).
MGS 82	Set of parts to convert V.O. tractor fitted with front petrol tank to tractor fitted with rear pump fed petrol tank. (Applicable to tractors up to and including No. 10469).

## VAPOURISING OIL SECTION

MAS 38	Set of parts to convert existing petrol driven tractors to run on vapourising oil (Applicable to tractors with engines No. 7231 onwards).
MGS 57	Stud vapourising box.
MGS 58	Stud vapourising box.
MGS 59	Stud vapourising box.
MGS 73	Set of parts to convert existing petrol driven tractors to run on vapourising oil. (Applicable to tractors with engine prior to No. 7231).
LS 2315/1	Fibre washer drain tap.
MGE 170	Low compression cylinder head.
MGE 170B	Low compression cylinder head (high altitudes only).
MGE 182 A	Fan Cowl (for tractors with front fitted petrol tank).
MGE 336	Gasket vapourising box.
MGE 350	Drain tap carburettor.
MGE 351	Tube concentric carburettor.
MGE 352	Hose pipe connection 2 $\frac{3}{8}$ " long.
MGE 354	Bracket air cleaner.
MGE 369	Pilot jet carburettor (concentric type).
MGE 1250	Stud vapourising box.
MGE 1325 A	Modified carburettor (concentric type).
MGE 1335	Vapourising box.
MGE 1340	Nuts vapourising box $\frac{1}{4}$ " UF.
MGE 1341	Nuts vapourising box $\frac{5}{16}$ " UF.
MGE 1392	Economiser.
MGE 1664 A	Modified carburettor (butterfly type).
†MGE 1750	Vapourising box.
†MGE 1760	Main jet carburettor (Butterfly type).



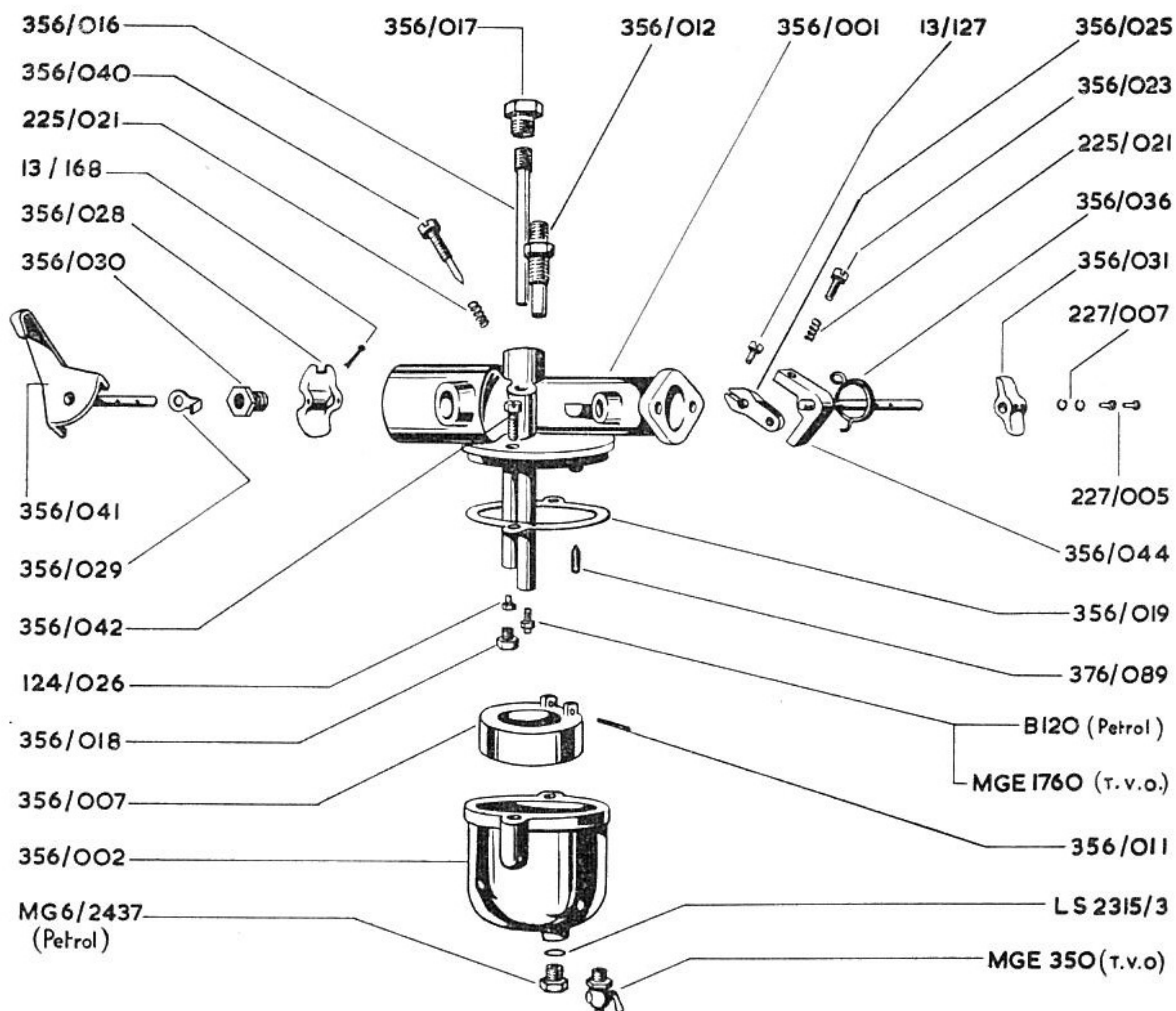


Fig. 7

### AMAL CARBURETTOR 356/I (Fig. 7)

356/001	Carburettor body.	356/036	Throttle return spring R.H.
356/002	Float chamber.	356/040	Pilot air adjuster.
356/007	Float complete with hinge.	356/041	Strangler lever and spindle assembly.
356/012	Needle seating.	356/042	Float chamber bolts.
356/011	Float hinge spindle.	356/044	Throttle stop and spindle assembly.
356/016	Air bleed tube complete.	124/026	Pilot jet 100 cc.
356/017	Air chamber plug screw.	B 120	Main jet 105 cc. (Petrol version).
356/018	Pilot chamber plug screw.	MGE 1760	Main jet 110 cc. (V.O. version).
356/019	Float chamber washer.	227/005	Throttle valve screws.
356/023	Throttle stop screw.	227/007	Throttle valve washers.
376/089	Float Needle.	225/021	Spring for pilot air adjuster.
356/025	Throttle Lever.	225/021	Throttle stop spring.
356/028	Strangler valve.	13/168	Cotter for strangler valve.
356/029	Strangler spring.	13/127	Throttle lever screw.
356/030	Strangler spindle bush.	LS 2315/3	Fibre washer float chamber drain plug.
356/031	Throttle valve.	MG 6/2437	Drain plug (Petrol version).
		MGE 350	Drain tap (V.O. version).



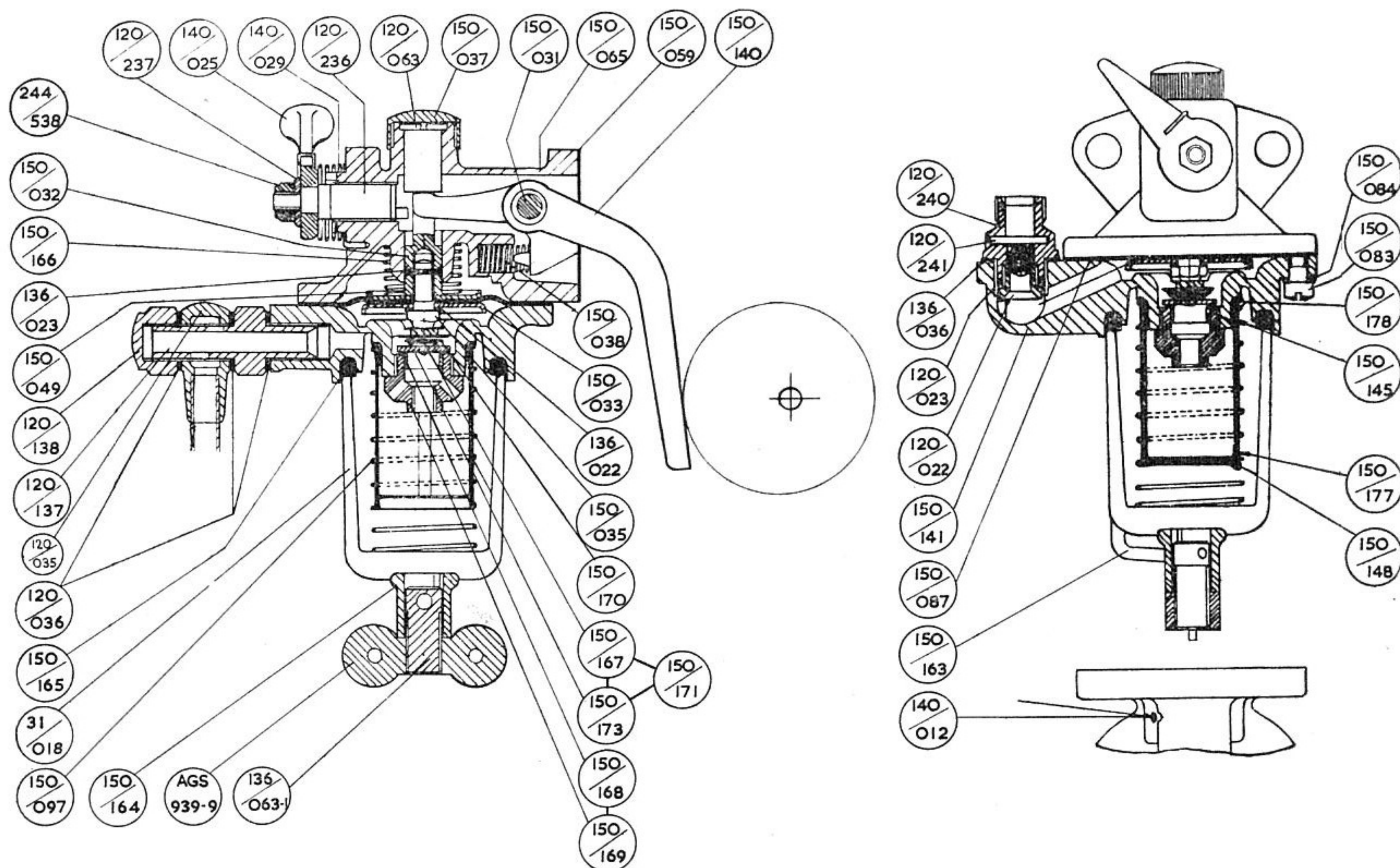


Fig. 8

## AMAL 150/861A PETROL PUMP

(MGE 312) (Fig. 8)

150/065	Pump body (top half).	150/031	Fulcrum pin.
150/166	Diaphragm spring.	150/032	Spindle.
150/140	Lever.	150/033	Bottom diaphragm washer.
150/141	Body (bottom half)	150/087	Diaphragms (per set of 3).
150/143	Filter complete.	120/138	Banjo nut.
150/059	Packing washer.	120/137	Inlet connection.
120/021	Delivery valve cage comprising 120/240 and 120/241 1 off each.	150/035	Diaphragm bolt.
136/036	Delivery valve cage washer.	140/012	Fulcrum split pin.
120/022	Valve seating.	150/037	Top cap.
120/023	Valve ball.	120/036	Banjo and inlet connection washers.
150/170/1/2	Inlet valve spring assembly.	150/038	Lever spring.
150/049	Top diaphragm washer.	150/097	Filter spring.
150/165	Filter cup washer.	140/025	Priming lever.
31/018	Filter cup.	120/236	Priming lever cam.
150/163	Filter stirrup.	120/237	End washer.
136/063-1	Stirrup eyebolt.	140/029	Priming lever spring.
150/164	Distance piece.	150/083	Body fixing screws.
AGS 939-9	Wing nut.	150/084	Groove washer.
		136/022-1	Diaphragm bolt washer.
		120/063	Groove washer.
		120/035-1	Banjo.
		244/538	Aerotight hex nut basic No. C.B.1.







# **WICO TYPE 'A' MAGNETO** **A-1009 CZ (MGE 132) (Fig. 9)**

IXA 256	Cover screw washer.
IXA 862	Earth stud insulating washer.
15-186	Drive spring.
IKFX 121	H.T. lead group 24".
16-463	Terminal nut.
16-491 C	Impulse lock nut.
16-570 B	Impulse stop.
16-583	Drive cup spacing washer (brass).
16-704 B	End plate screw.
16-716 B	Impulse stop screw.
1100	Condenser screw.
1117	Cover screws.
1118	Cover screw washer (leather).
1146	Cam key.
1152	Oil scraper (part of X 1487).
1152	Oil scraper spring (part of X 1487).
1172	Oil catcher (part of X 1638).
*1196	Fixed contact.
1197	Breaker arm spacing washer.
1207	Breaker arm clamp washer.
1328	Earth stud (part of X 1596).
1372	Cam.
1379	Main oil pad.
1381	Cam screw lock plate.
1384	Coil core clamp.
1385	Cover gasket.
1392	Impulse drive cup.
1418	Breaker arm spacer.
1423	Oiler.
1667	Drive spring retainer.
1760	Coil gasket.
2072	Breaker box gasket.
2073	Breaker box cover screw.
2073	Breaker arm spring screw.
2073	Breaker arm clamp screw.
2074	Breaker box cover.
2121 C	Impulse spacer.
2122	Driven flange spacer.
2264 B	Coil wedge (part of X 1411).
2495	Main housing bushing.
5446	Cam oil pad.
6017	Breaker arm spring screw.
A-142 X	Earth stud nut.
A-179 X	Trip arm.
B-33 X	Oil seal.

B-138 X	Stop switch contact.
B-140 X	Stop switch group.
F 142	End plate
GX 1638/EPM	Main housing unit.
M-31 X	Cam screw.
M-31 X	Fixed contact screw.
M-34 X	Earth stud insulating bushing.
M-35 X	Earth stud insulating washer.
M-42 XA	Driven flange spacing washer.
M-55 XA	Cam screw lock washer.
M-55 XA	Coil clamp core screw lock washer.
M-55 XA	Fixed contact screw lock washer.
M-55 XA	Breaker arm clamp screw lock washer.
M-55 XA	Breaker box screw lock washer.
M-90 C	Condenser screw lock washer.
M-90 C	Breaker arm spring screw lock washer.
M-126 XB	Coil core clamp screw.
NC-48	End plate screws.
X 1407	Cover group (superseded by X 1412).
*X 1408	Breaker arm group.
X 1409	Coil core group.
X 1410	Coil group.
X 1411	Coil and core group.
X 1412	Cover group, complete with cable.
X 1413	Condenser group.
X 1487	Oil scraper assembly.
X 1588	Cam unit.
X 1592	Rotor assembly.
X 1596	Ground stud group (2 screws, connecting wire and breaker lead).
X 1628	Driven flange group (arms not included)
X 1634	Impulse coupling unit. <i>245, 40</i>
X 1638/EPM	Main housing unit.
X 1669 B	Oil disc unit.
X 1878	Breaker assembly.
X 2009	Cover unit.
X 2075	Breaker box clip assembly.
X 2089	Breaker box cover.
X 2175	Breaker assembly housing.
X 2505B	Oil pad spring group.
ZX 142	End plate group.
Z 1207	Breaker box clip screw washer.
IVA 483	Oiling disc.
NA 583	Drive cup spacing washer (steel).
IVA 716	End plate gasket.
IXA 256	Fixed contact screw washer.

\*It is advisable when ordering to ask for complete contacts to No. 06401







## MAIN FRAME SECTION (Fig. 10)

MA 35	Bumper Bar (replaced by MAA 0097).
MGS 1	Gearbox top plate with filler cap.
LS 2421/5	Self lock nuts seat spring $\frac{5}{16}$ ".
MG 5/18	Leather jointing.
MG 5/45	Pin drawbar.
MG 5/50	Drawbar locating pin.
MG 5/69	Cover plates brake compartments.
MG 5/616	Clips throttle control.
MG 6/2001	Main frame welded assembly.
MG 6/2033	Brake lever bracket, L.H.
MG 6/2034	Brake lever bracket, R.H.
MG 6/2042	Drawbar.
MG 6/2050	Floor plate.
MG 6/2060	Seat assembly.
MG 6/2063	Seat springs.
MAA 0097	Bumper bar.
MAA 0224	Filler cap and dipstick gear box (New type).

MGE 52	Washer for gear box drain plug.
MGE 157	Filler cap gear box (Old type).
MGE 1051	Drain plug gear box.
PSF 836 D	Spring clip drawbar pin.
PSF 836 D	Spring clip drawbar locating pin.
UFB 105/8 R	Bolts seat springs.
UFB 106/7 R	Bolts bumper bar.
UFS 104/4 R	Screw gear box top plate.
UFS 104/6 R	Screw gear box top plate.
UFS 104/8 R	Screw gear box top plate.
UFS 105/4 R	Screw for floor plate.

## LOAD ROLLER SECTION (Fig. 10)

MGS 16	Load roller spindle.
MGS 17	Load Roller assembly complete.
MGS 18	Load roller frame, R.H.
MGS 19	Load roller frame, L.H.
MGS 20	Load roller and bush.
GC 522	Cover oil seal.
MG 5/320	Distance tube.
MGS/321	Bush Load Roller.
MG 5/322	Collar Oil Seals.

MG 6/2587	Cap main tube.
MG 6/2597	Oil Seal load roller.
MG6/2600	Mudguard, L.H. (for machines supplied prior to 1957).
MG 6/2601	Mudguard, R.H. (for machines supplied prior to 1957).
MG 6/2612	Socket head screws load roller frame main tubes.
NC 6101	Lubricator roller spindles. (Tecalemit).
UFS 105/4 R	Screw mudguards (for machines supplied prior to 1957).

## TRUCK SECTION (Fig. 10)

*MA 47	Standard track complete.
*MAS 47	Modified track drilled and broached.
T 1	Standard track casting.
T 3	Centre rubber.
T 4	Main rubber.
MG 6/2494A	Main washer.
*MG 6/2496 A	Modified track casting drilled and [broached]
MAA 0776	Track bolt.
MAA 0777	Nut for ditto.

## IDLER WHEEL SECTION (Fig. 10)

MA 6	Idler wheel.
MGS 21	Idler wheel hub and bush.
MGS 22	Idler wheel axle.
MGS 25	Track adjusting screw.
LS 2421/6	Self lock nuts track adjusting screws $\frac{1}{2}$ " UF.
LS 2421/17	Self lock nuts Idler wheel hub bolts $\frac{7}{16}$ " UF.
MG 5/276	Oil seals hub.
MG 5/277	Oil seal cover.
MG 6/2643	Distance tube.
MG 6/2644	Bush Idler wheel hub.
MG 6/2645	Collar oil seal.
MG 6/2658	Nut Idler wheel axle.
NC 6100	Lubricator Idler wheel hub.
UFB 107/10 R	Bolts Idler wheel and hub.

\* Not illustrated



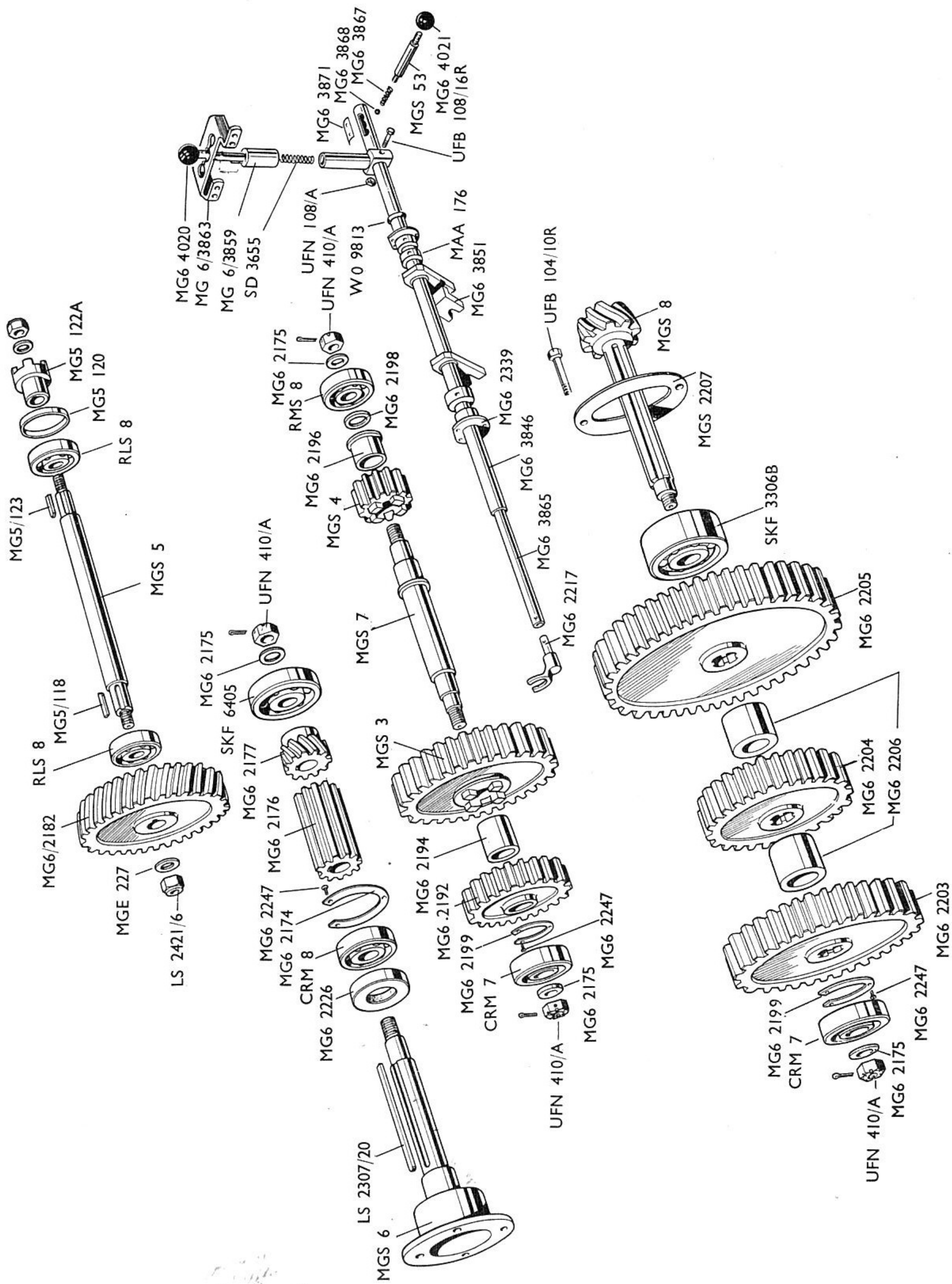


Fig. 11



## TRACK ACCESSORIES (Fig. 10)

MAS 8	Wide track conversion complete.
MAS 9	8" Swamp track fittings.
*MAS 9 B	Road transport fittings (clip on type).
MAS 29	12" Swamp track fittings.
MAS 31	10" Swamp track fittings.
LS 2421/15	Self lock nuts swamp block bolts.
LS 2628	Countersunk bolts swamp blocks.
GC 579	8" Swamp block.
MG 5/628	Washer swamp block bolts.
*MG 6/3131	Road transport pads (clip on type).
MG 6/3806	10" Swamp block.
MG 6/3836	12" Swamp block.

## PRIMARY GEAR BOX AND P.T.O.

### SECTION (Fig. 11)

MGS 2	Gear case assembly.
MGS 3	Gear wheel (40 teeth) with bush.
MGS 4	Gear wheel (19 teeth) with bush.
MGS 5	Power shaft.
MGS 6	Input shaft.
MGS 7	Intermediate shaft.
MGS 8	Bevel pinion shaft with bevel gears. (Supplied in sets only)
LS 2421/6	Self locknuts power shaft $\frac{1}{2}$ " UF.
LS 2421/18	Self locknuts retaining ring bolts $\frac{1}{4}$ " UF.
MG5/117	Gear wheel power shaft.
MG5/118	Key power shaft.
MG 5/120	Distance ring power shaft bearing.
MG 5/122 A	Dog clutch.
MG 5/123	Key power shaft,
MG 5/127	Gasket power shaft housing.
MG 5/131	Cover power shaft housing.
MG 5/131	Collar power shaft.
MG 6/2162	Inspection plate.
MG 6/2163	Cover plate hour counter fixing hole.
MG 6/2165	Gear case cover.
MG 6/2168	Gasket hour counter hole cover.
MG 6/2174	Retaining washer input shaft bearing.
MG 6/2175	Washer input shaft.
MG 6/2175	Washer bevel pinion shaft.

MG 6/2175	Washer intermediate shaft.
MG 6/2176	Input pinion (long).
MG 6/2177	Input pinion (P.T.O.)
MG 6/2186	Power shaft bearing housing.
MG 6/2192	Gear wheel intermediate shaft (29 teeth).
MG 6/2194	Bush intermediate shaft (40 teeth gear).
MG 6/2196	Bush intermediate shaft (19 teeth gear).
MG 6/2198	Distance collar intermediate shaft.
MG 6/2199	Retaining washer intermediate shaft.
MG 6/2199	Retaining washer bevel pinion shaft.
MG 6/2203	Gear wheel bevel pinion shaft (44 teeth).
MG 6/2204	Gear wheel bevel pinion shaft (33 teeth).
MG 6/2205	Gear wheel bevel pinion shaft (54 teeth).
MG 6/2206	Distance piece bevel pinion shaft gears.
MG 6/2207	Retaining ring bevel pinion shaft.
MG 6/2226	Oil seal input shaft.
MG 6/2229	Gasket gear case.
MG 6/2230	Gasket inspection plate.
MG 6/2231	Gasket bearing covers.
MG 6/2247	Screws retaining washer (input shaft).
MG 6/2248	Studs gear case.
MG 6/2272	Dowels gear case.
NA 5704	Lubricator power shaft housing (Tecalemit).
RL 8	Ball Bearing power shaft (Skefko).
SKF 3306 B	Ball bearing bevel pinion shaft (Skefko).
SKF 6405	Ball bearing input shaft (Skefko).
TC 690 A	Bearing cover caps.
CRM 7	Roller bearing bevel pinion shaft (Skefko).
CRM 8	Roller bearing input shaft (Skefko).
MGE 227	Washers power shaft.
RLS 8	Ball bearing power shaft.
RLS 8	Ball bearing intermediate shaft.
UFB 104/16 R	Bolt retaining ring (bevel pinion shaft).
UFB 105/9 R	Bolt gear case cover.
UFS 104/4 R	Screws bearing cover plates.
UFS 104/3 R	Screws hour counter hole cover.
UFS 104/5 R	Screws inspection cover.
UFS 105/10 R	Screws power shaft housing.
UFS 106/9 R	Screws gear case.

\*If these items are required for use on Tractors in the British Isles they must be obtained from the Suppliers

Roadless Traction Ltd., Hounslow, Middlesex



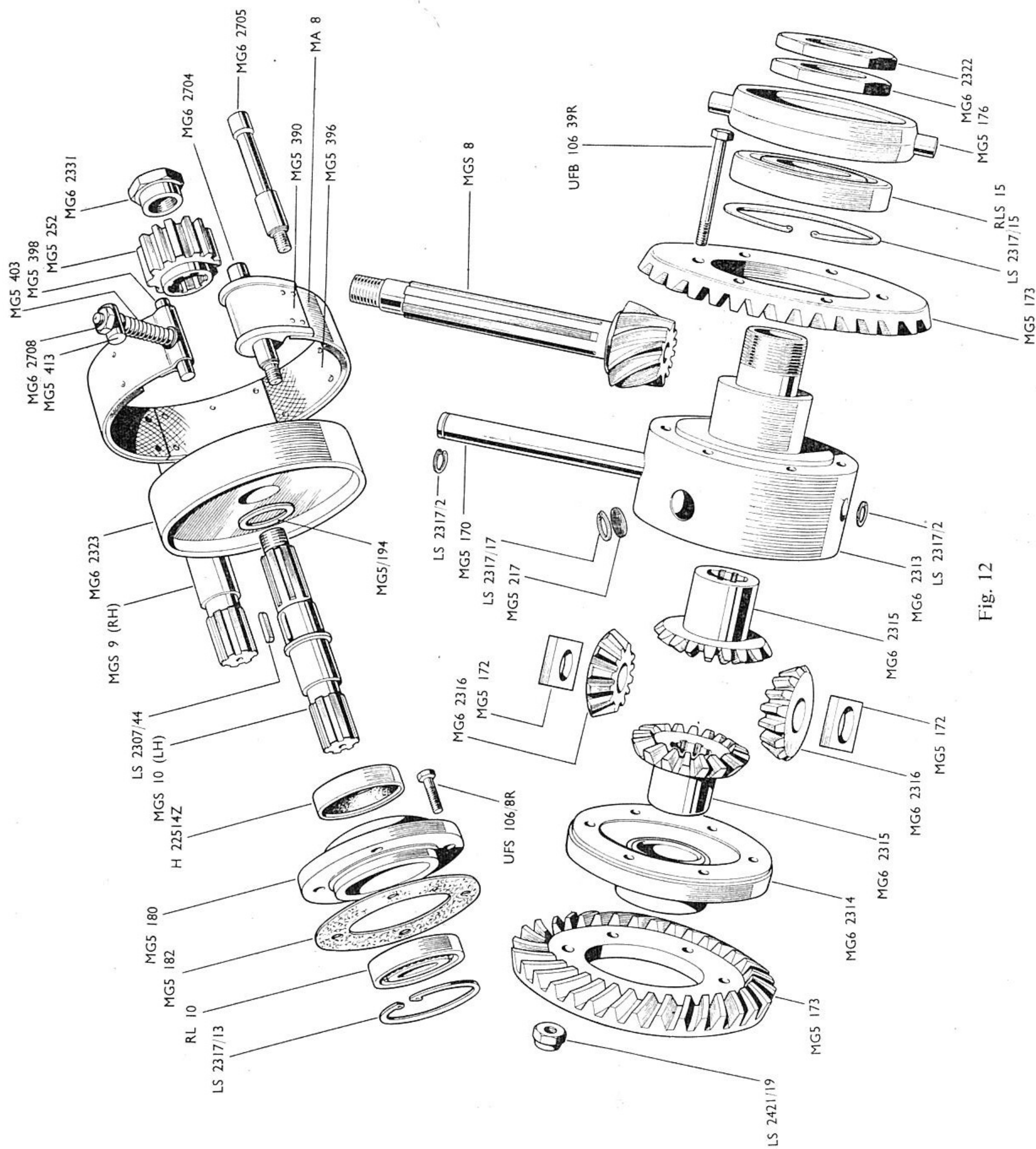


Fig. 12



## DIFFERENTIAL GEAR BOX AND

### GEAR CHANGE SECTION (Fig 11 & 12)

MGS 9	Differential shaft, R.H.
MGS 10	Differential shaft, L.H.
MGS 53	Speed gear change handle.
H 22514Z	Oil seals differential shaft housings.
LS 2317/2	Circlips differential gear pin $\frac{3}{4}$ " dia. external type.
LS 2317/13	Circlips differential shaft housings $2\frac{3}{4}$ " dia. internal type.
LS 2317/15	Circlip thrust bearing 4" dia. internal type.
LS 2317/17	Circlips differential gear housing, $\frac{7}{8}$ " dia. internal type.
LS 2320/24	Setscrews reverse gear fork locating rings
LS 2421/6	Selflock nut reverse gear lever.
LS 2421/19	Selflock nut reverse gear fork $\frac{3}{8}$ " UF
LS 2421/19	Selflock nuts spiral bevel wheels $\frac{3}{8}$ " UF.
MG 5/170	Differential gear pin.
MG 5/172	Bevel pinion thrust pads.
MG 5/173	Spiral bevel wheel (sold as part of MGS 8).
MG 5/176	Housing thrust bearing.
MG 5/180	Differential shaft housing.
MG 5/182	Gaskets differential shaft housing.
MG 5/194	Gaskets brake drums.
MG 5/217	Oil filters differential gear housing.
MG 5/218	Washers for ditto.
MG 6/2217	Speed gear change fork.
MG 6/2271	Setscrew gear change fork.
MG 6/2313	Differential gear housing.
MG 6/2314	Differential gear cover.
MG 6/2315	Differential bevel gear.
MG 6/2316	Differential bevel pinion.
MG 6/2322	Bearing locknuts.
MG 6/2331	Nuts differential shafts.
*MG 6/2948	Knob reverse gear change and handle.
*MG 6/2949	Knob speed gear change and handle.
MG 6/3846	Reverse gear fork.
MG 6/3851	Rear bottom half fork.
MG 6/3854	Locating rings reverse gear fork.
MG 6/3855	Front bearing gear control.
MG 6/3856	Rear bearing gear control (Prior to 1957)

\* For Tractors prior to No. 10957.

MG 6/3858	Reverse gear change lever.
MG 6/3859	Reverse gear change handle.
MG 6/3863	Quadrant reverse gear change handle.
MG 6/3865	Speed gear change rod.
MG 6/3867	Spring speed change handle.
MG 6/3871 A	Dust protection plate.
MG 6/3872	Screws for ditto.
MG 6/3873	Dust protection cover.
‡MG 6/4020	Knob reverse gear change handle.
‡MG 6/4021	Knob speed gear change handle.
RL 10	Ball bearings differential shaft housings.
RLS 15	Thrust bearings.
SD 3655	Spring reverse gear change handle.
TC 656	Felt washer gear control rear bearing. (Prior to 1957)
WO 9813	"O" ring seal gear control rear bearing.
MAA 0176	Gear control rear bearing.
MG6/3868	Steel ball speed change handle.
UFB106/11R	Bolt reverse gear fork.
UFB 106/39 R	Bolt differential gears.
UFB 108/16 R	Bolt reverse gear lever.
UFS 106/8 R	Screws differential shaft housings.
UFS 106/8 R	Screws gear change quadrant.

### BRAKE SECTION (Figs. 10, 12)

MA 8	Brake band assembly.
MGS 23	Steering brake lever, R.H.
MGS 23	Steering brake lever, L.H.
LS 2307/44	Key brake drums.
LS 2310/12	Split pins pivot pins $\frac{3}{32}$ " dia. $\times$ 1" long.
GC 185	Rubber washer brake adjusting screw.
GC 198	Copper rivets brake linings, $\frac{3}{16}$ " dia. $\times$ $\frac{3}{8}$ " flat head.
MG 5/390	Brake band anchor.
MG 5/391	Rivet for ditto $\frac{3}{8}$ " dia. $\times$ $\frac{1}{4}$ " flat head.
MG 5/396	Brake band linings.
MG 5/398	Pivot pin brake band.
MG 5/403	Spring brake adjusting screw.
MG 5/413	Trunnion brake adjusting screw.
MG 5/414	Stop tube brake adjusting screw.
MG 6/2323	Brake drum.
MG 6/2704	Anchor pin (short).
MG 6/2705	Anchor pin (long).
MG 6/2707	Adjusting screw brake band.
MG 6/2708	Adjusting nut for ditto.

† For Tractors No. 10958 onwards.



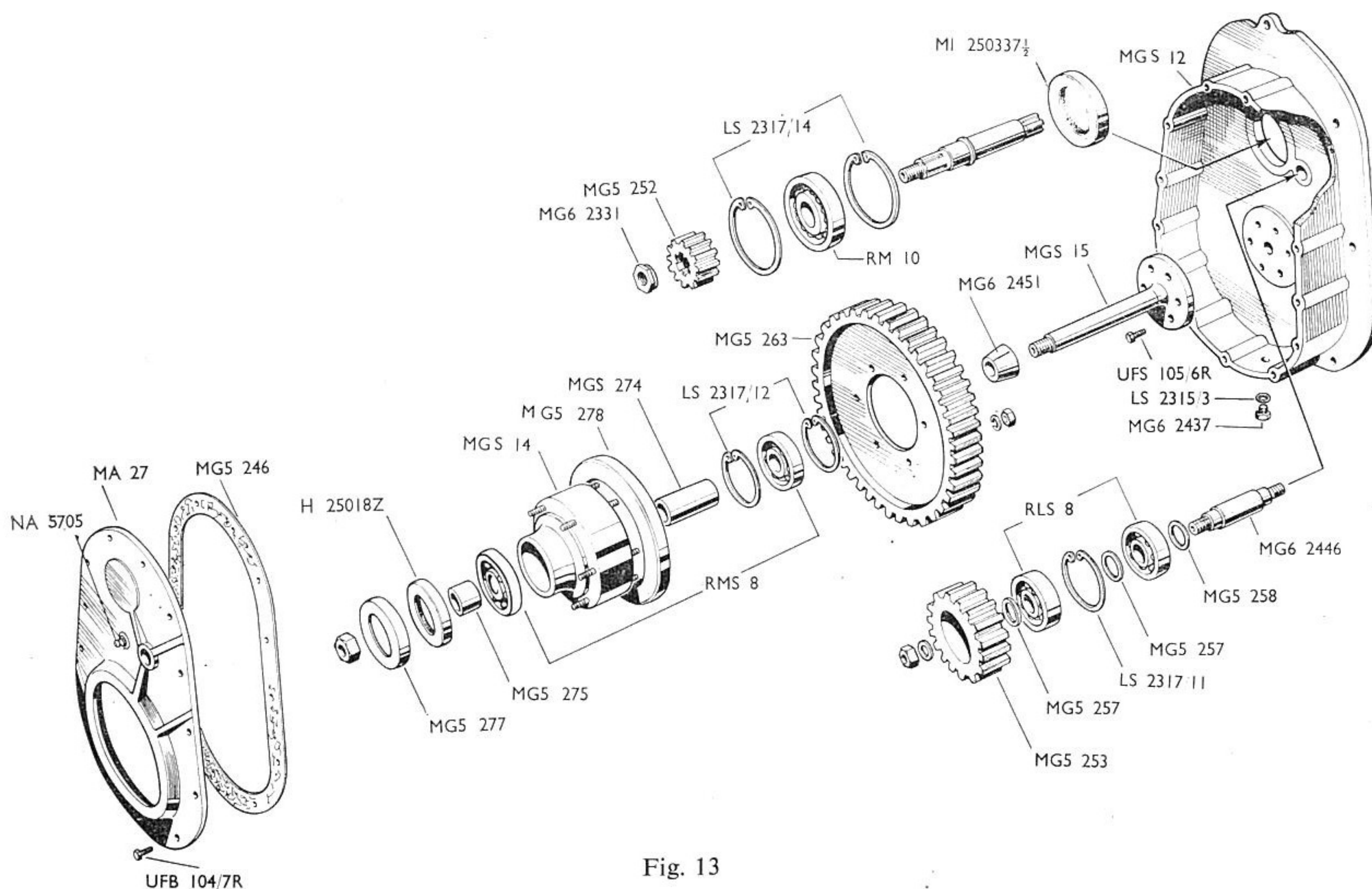


Fig. 13

## FINAL DRIVE AND DRIVING WHEELS

(Figs. 10, 13)

MA 27	Final drive gear case cover plate.
MGS 12	Final drive gear case.
MGS 14	Driving wheel hub assembly.
MGS 15	Stub axle.
H 25018 Z	Oil seal driving wheel hub.
MI 250337 1/2	Oil seal gear case.
LS 2317/11	Circlip pinion shaft bearings 2 1/4" dia internal type.
LS 2317/12	Circlip stub axle bearings 2 1/2" d'a internal type.
LS 2317/14	Circlip gear case bearings 3 1/8" dia internal type.
LS 2318/29	Self lock nuts driving wheel studs 7/16" U.F.
MG 5/246	Gasket gear case cover plate.
MG 5/252	Final drive pinion.
MG 5/253	Intermediate pinion.
MG 5/257	Distance pieces pinion shaft.
MG 5/258	Distance pieces pinion shaft.

MG 5/263	Final drive gears.
MG 5/274	Distance tubes.
MG 5/275	Distance pieces.
MG 5/277	Oil seal cover.
MG 5/278	Oil seal gear case cover plate.
MG 5/528	Fibre washer oil lever plugs.
MG 6/2437	Oil lever plugs gear case.
MG 6/2437	Oil plugs driving wheel hubs.
MG 6/2446	Pinion shafts.
MG 6/2451	Distance collars stub axles.
MG 6/2473	Driving wheel hubs.
MG 6/2474	Studs ditto.
MG 6/2483	Driving wheels.
NA 5705	Lubricator gear case cover plates.
NC 6100	Lubricator driving wheel hubs.
RM 10	Ball bearings gear case.
RLS 8	Ball bearings pinion shaft.
RMS 8	Ball bearings final drive wheel hubs.
UFB 104/7R	Bolts gear case cover plates.
UFS 105/6R	Screws stub axles.



# AUXILIARY FITTINGS FOR TRACTOR

## PETROL VERSION

*MA 30	Cut out switch.
*MGS 28	Petrol tank.
*GC 185	Rubber washers petrol tank.
*GC 269 B	Registration plate.
*LS 232213	Screws Registration Plate.
*MG 5/499	Clip petrol pipe.
*MG 5/500	Clip petrol pipe.
*MG 5/520	Rubber grommet cut-out cable.
*MG 5/592 A	Silencer.
*MG 5/594	Silencer guard.
*MG 5/616	Cable clips.
MG 6/2854 A	Petrol pipe.
*MG 6/2865	Petrol tank connection.
*MG 6/2989 A	Exhaust pipe (for tractors with engines prior to No. 7190).
*MG 6/2997	Clip exhaust pipe (for tractors up to No. 10739).
*MG 6/2999	Clip exhaust pipe.
*MG 6/3008	Exhaust pipe (for Tractors Nos. 10739 onwards).
*1571585	Filler cap petrol tank.
*LSA 1007	Lock nut angle adaptor.
*LSA 1025	Fibre washer angle connection.
*MGE 157	Filler cap petrol tank (replaced by No. 1571585 on 1957 models).
UFB 104/6 R	Bolts exhaust pipe.
UFB 104/7 R	Bolts silencer guard.
UFB 104/10 R	Bolt exhaust pipe clip.

\* Items common to both petrol and V.O. models.

## V.O. VERSION

MAS 25	Petrol tank (front mounted).
MGS 80	Petrol tank (rear mounted).
LS 2421/18	Self lock nuts front mounted petrol tank $\frac{1}{4}$ " UF.
MG 5/499	Clip petrol pipe.
MG 5/500	Clip petrol pipe.
MG 5/592 A	Silencer.
MG 5/594	Guard silencer.
MG 5/616	Cable clips.
MG 6/2865	Petrol tank connection.
MG 6/2997	Clip exhaust pipe.
MG 6/2999	Clip exhaust pipe.
MG 6/3008	Exhaust pipe (tractors 10739 onwards).
No 1571585	Filler cap main fuel tank (1957 models onwards).
LCC 64	Filler cap petrol tank.
LSA 1007	Lock nut angle adaptor.
LSA 1025	Fibre washer angle connection.
MGE 157	Filler cap main fuel tank (for tractors prior to 1957).
MGE 379 A	Pipe—cock to carburettor (for tractors prior to No. 10470).
MGE 380 A	Pipe—cock to pump (for tractors prior to No. 10470).
MGE 381 A	Pipe—cock to petrol tank (for tractors prior to No. 10470).
MGE 383	Bracket two-way cock (for tractors prior to No. 10470).
MGE 437	Two-way cock (replaces MGE 382).
MGE 1386	Exhaust pipe (for tractors prior to 10738)
MGE 1793	Pipe—cock to pump (for tractors 10470 onwards).
MGE 1799	Pipe—cock to main fuel tank (for tractors 10470 onwards).
MGE 1804	Pipe—cock to petrol tank (tractors 10470 onwards).
UFB 104/8 R	Bolt petrol tank bracket.
UFS 104/6 R	Screw petrol tank bracket.



# SPECIAL FITTINGS

## TOOLBAR LIFTING GEAR (HAND) Fig. 14

MAS 6	Toolbar and lifting gear complete
MAS 6 B	Lifting lever.
MAS 36	Back plate with bolts
MAS 46	Drawbar with bolts
GC 453	Stop plates.
LS 1807/32	Nut lifting chain bolt.
LS 2421/6	Self lock nut pulley bolt $\frac{1}{2}$ " UF.
LS 2421/16	Self lock nut toolbar pivot pin $\frac{5}{8}$ " UF.
LS 2460/7	Bolt for lifting chain.
LS 2521/3	Screws wearing strip.
MG 5/62	Wearing strips.
MG 5/440	Spring operating rod.
MG 5/445	Stop lifting gear.
MG 5/449	Pulley lifting gear.

MG 5/452	Lifting chain.
MG 5/453	Toolbar assembly.
MG 5/471	Lever bracket L.H.
MG 6/2774	Operating rod.
MG 6/2775	Plunger pin.
MG 6/2776	Operating rod handle.
MG 6/2786	Toolbar pivot pin.
MG 6/2801	Bolt operating handle.
MG 6/2805	Bolt stop plates.
MG 6/2808	Nut stop plate bolts.
UFB 106/22 R	Bolt toolbar lifting bracket.
UFB 108/22 R	Bolt for lifting gear pulley.
UFS 106/6 R	Screw lifting lever brackets.
UFS 106/11 R	Screw lifting lever stop.

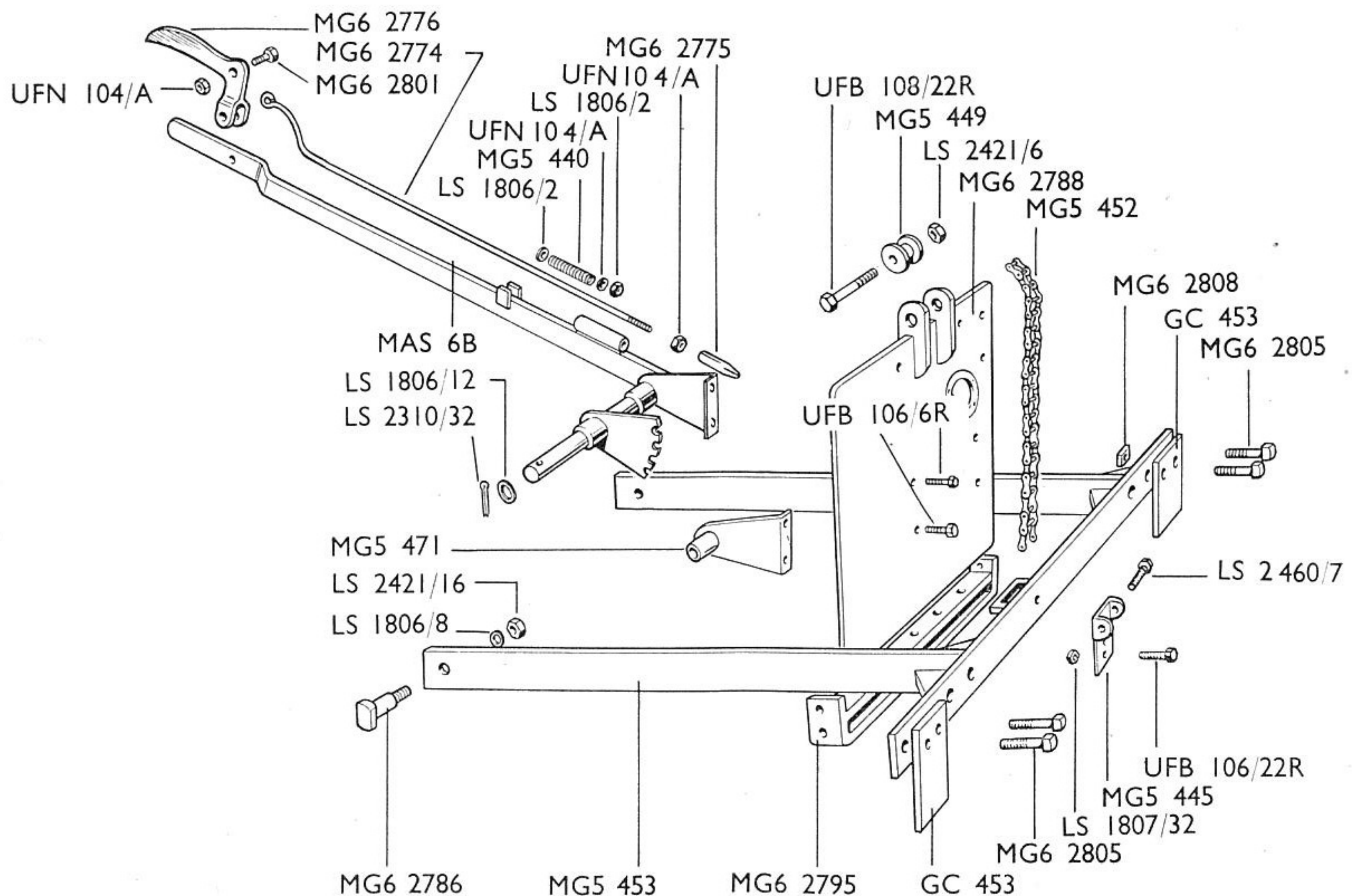


Fig. 14



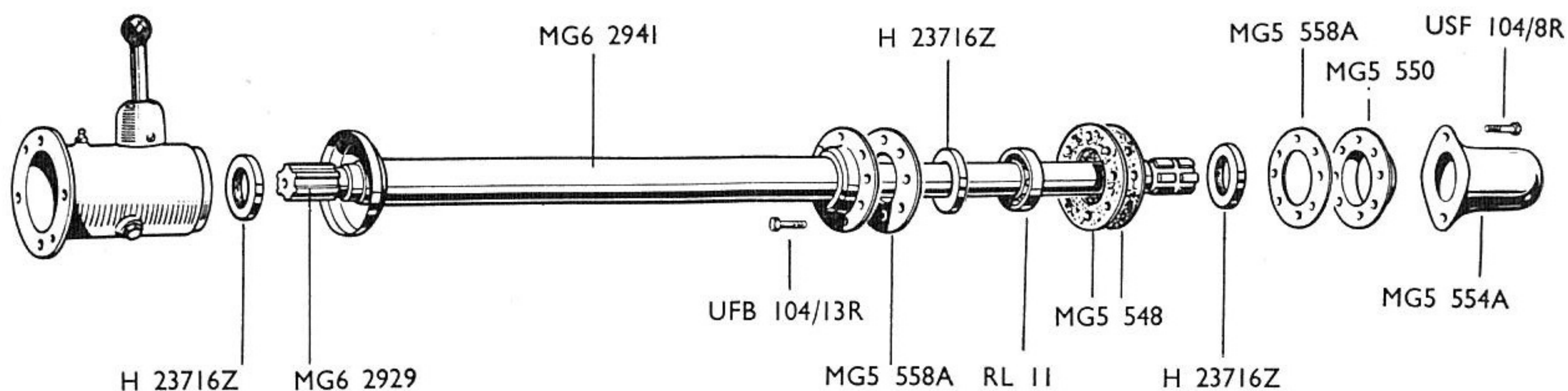


Fig. 15

## POWER TAKE-OFF SHAFT FOR TRACTORS WITHOUT HYDRAULIC LIFT (Figs. 15, 16)

MAS 7	P.T.O. shaft complete.
MAS 10 A	5" pulley.
MAS 10 B	6" pulley.
MAS 10 C	7" pulley.
MAS 10 D	8" pulley.
MAS 10 E	10" pulley.
H 23716/Z	Oil seals.
LS 2315/2	Fibre washer oil level plug.
LS 2317/7	Circlip P.T.O. shaft, 1 1/4" dia. external.
LS 2317/13	Circlip clutch housing 2 3/4" dia. internal type.
MG 5/127	Joint clutch housing.
MG 5/533.A	Sliding dog clutch.
MG 5/535	Spring clutch.
MG 5/536	Clutch release fork.
MG 5/539	Clutch lever cover.
MG 5/541	Cover washer.
MG 5/542	Spring clutch lever.
MG 5/544	Oil seal housing (for tractors built prior to 1957).
MG 5/546	Cover plate housing (for tractors built prior to 1957).
MG 5/546 A	Cover plate housing.
MG 5/554 A	P.T.O. shaft end cover.
MG 5/558 A	Gasket oil seal retainer.
MG 6/2437	Oil level plug.
MG 6/2920	Power shaft housing.
MG 6/2926	Clutch lever.
MG 6/2929	Locating screw (for tractors built prior to 1957).
MG 6/2922	P.T.O. shaft.
MG 6/2921	Cover tube P.T.O. shaft.
MG 6/3437	Screw clutch lever cover 1/4" UF. x 3/8" cup head.

MG 6/4021	Knob clutch lever.
NA 5704	Lubricator bearing housing.
MA 6101	Lubricator clutch housing.
RL 10	Ball bearing (clutch housing end).
RL 11	Ball bearing (back plate end).
MGE 82	Steel ball clutch lever.
UFB 104/13 R	Bolts bearing housing.
UFS 104/8 R	Screws oil seal retainer.
UFS 105/10 R	Setscrew pulley.

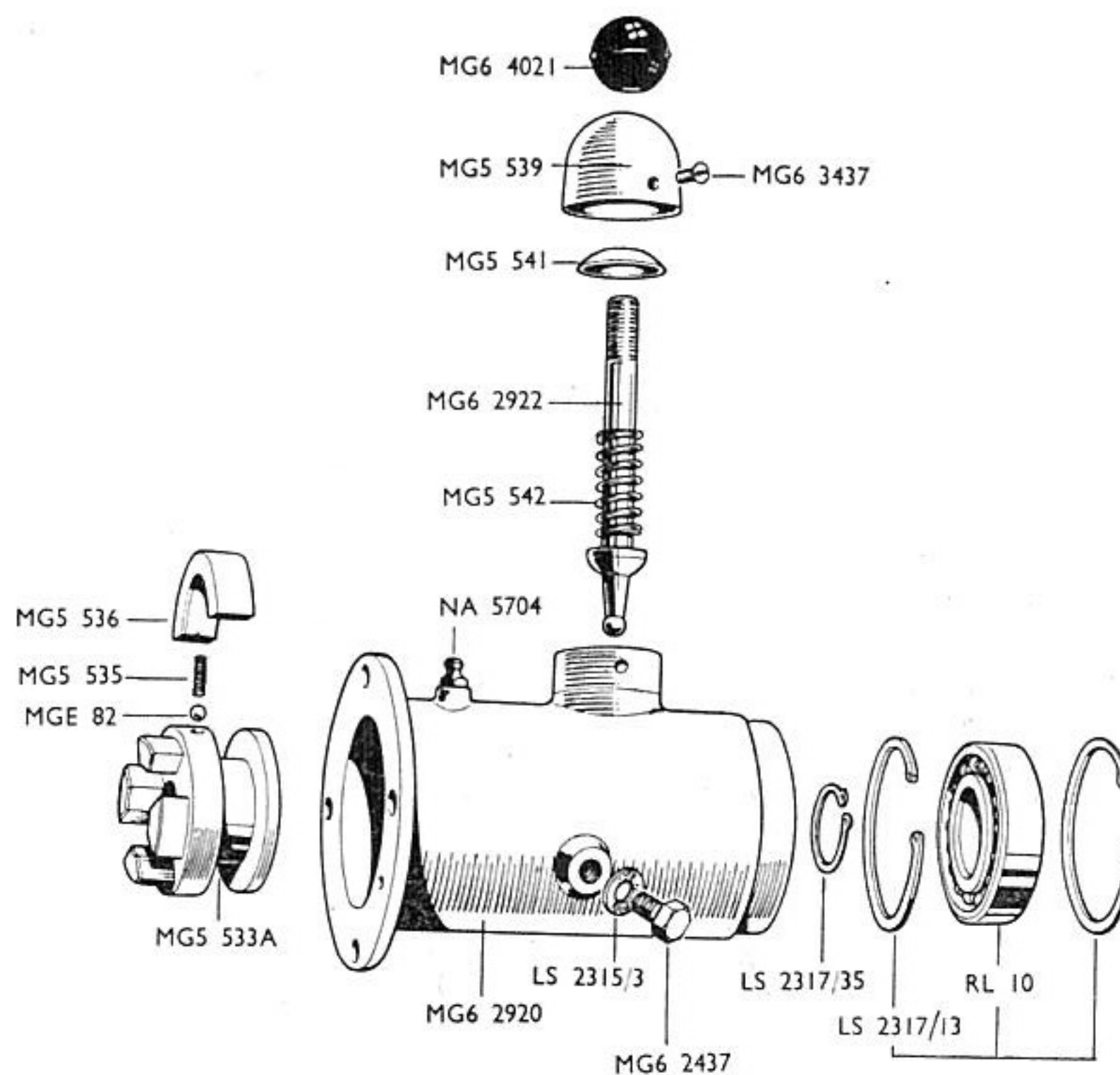


Fig. 16



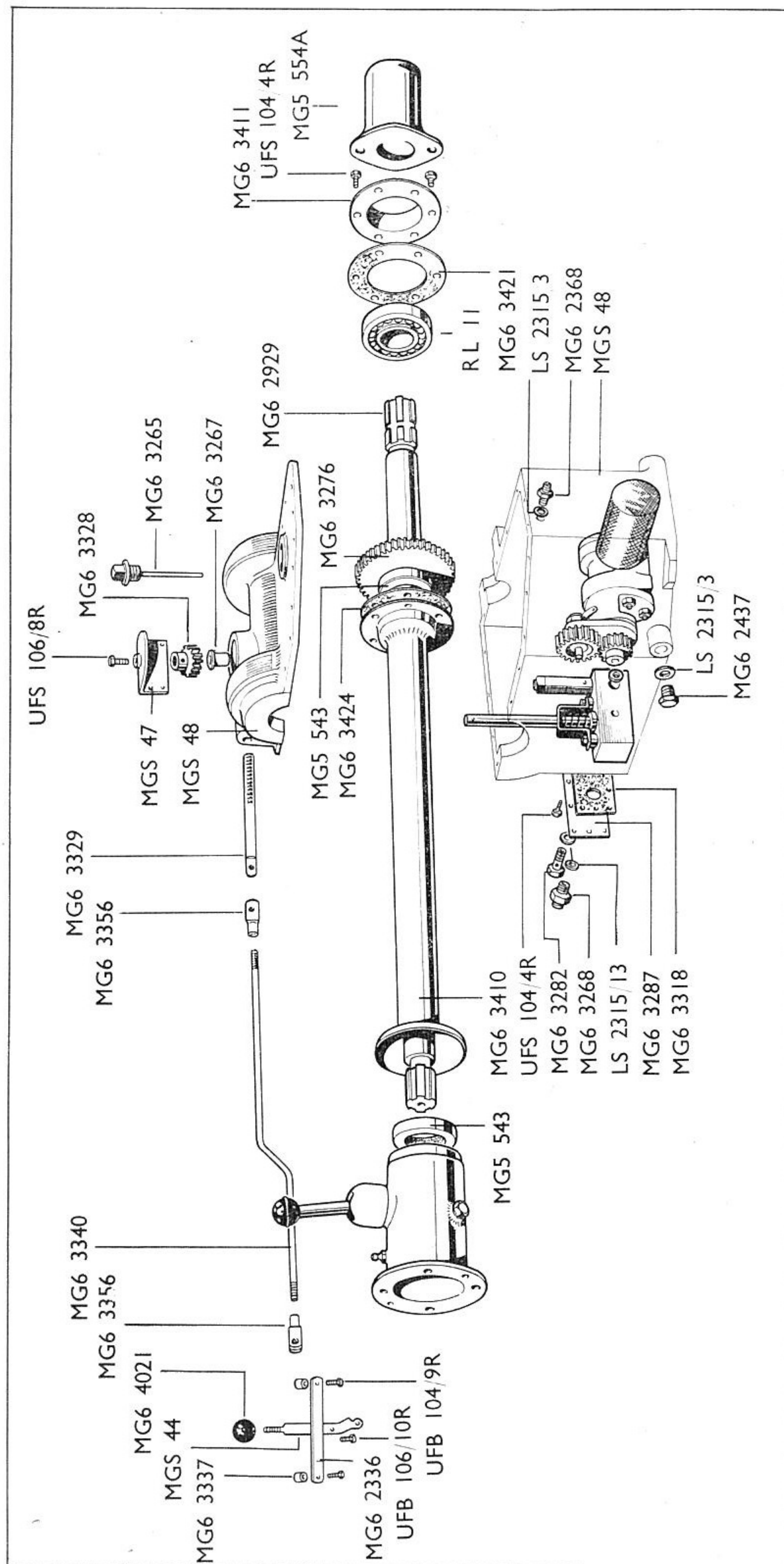


Fig. 17



# HYDRAULIC PUMP, GEAR BOX & CONTROLS Fig. 17, 18, 19

MAS 15	Hydraulic pump and box complete.	MG 5/546 A	Cover plate clutch housing.
MAS 15 A	Relief valve.	MG 5/554 A	Cover P.T.O. shaft end.
MAS 16	Pump control.	MG 6/2437	Plug valve body.
MAS 18	Clutch and power take-off.	MG 6/2437	Plug clutch housing.
MAS 52	Hydraulic unit complete with power take-off, pump and backplate.	MG 6/2920	Clutch housing
MGS 44	Hand lever assembly for machines supplied prior to 1957.	MG 6/2922	P.T.O. Clutch lever.
MGS 44 A	Hand lever assembly for machines supplied 1957 onwards.	MG 6/2929	P.T.O. shaft.
MGS 47	Top cover gear box.	MG 6/2949	Knob P.T.O. clutch lever (for tractors up to No. 11450).
MGS 48	Gear box.	MG 6/2949	Knob hydraulic control lever (for tractors up to No. 11450).
MGS 50	Valve assembly.	MG 6/3262	Locating pin gear box cover.
LS 2311/13	Key pump gear.	MG 6/3265	Filler cap and dipstick.
LS 2315/3	Fibre washer valve body.	MG 6/3267	Bush pump gear box cover.
LS 2315/3	Fibre washers unions.	MG 6/3268	Union $\frac{1}{8}$ " B.S.P.
LS 2315/3	Fibre washer oil level plug.	MG 6/3270	Filter assembly.
LS 2317/7	Circlip $1\frac{1}{4}$ " external type.	MG 6/3273	Pump gear wheel.
LS 2317/13	Circlip $2\frac{3}{4}$ " external type.	MG 6/3274	Intermediate gear wheel.
LS 2317/25	Circlip 30 m.m. internal type.	MG 6/3275	Spindle for ditto.
LS 2317/35	Circlip $\frac{1}{2}$ " external.	MG 6/3276	Main gear wheel.
LS 2318/31	Self lock nut intermediate gear spindle $\frac{7}{16}$ " UF.	*MG 6/3280	Valve body.
LS 2320/20	Grub screw dog clutch.	*MG 6/3282	Valve bolt.
LS 2320/20	Grub screw main gear.	MG 6/3283	Valve tap.
LS 2574/14	Key main gear.	MG 6/3284	Spring bracket.
MG 5/127	Joint clutch housing.	MG 6/3285	Relief valve body.
MG 5/533 A	Sliding dog clutch.	MG 6/3286	Screw relief valve.
MG 5/535	Spring for ditto.	MG 6/3287	Side plate gear box.
MG 5/536	Clutch release fork.	MG 6/3295	Pump (Varley type SH $1\frac{1}{2}$ ").
MG 5/539	Cover clutch lever.	MG 6/3315	$\frac{3}{8}$ " dia. ball for relief valve.
MG 5/541	Cover washer.	MG 6/3318	Gasket side plate.
MG 5/542	Spring clutch lever.	MG 6/3322	Pump flange.
MG 5/543	Oil seal gear box.	MG 6/3323	Bolt ditto.
MG 5/543	Oil seal P.T.O. shaft.	MG 6/3328	Control gear wheel.
MG 5/544	Oil seal housing P.T.O. Shaft (for tractors supplied prior to 1957).	MG 6/3329	Control rack.
		MG 6/3331	Control rod (for tractors supplied prior to 1957).
		MG 6/3332	Sleeve control rod (for tractors supplied prior to 1957).
		MG 6/3336	Control lever bracket.
		MG 6/3337	Distance piece for ditto.
		MG 6/3339	Taper pin control gear.
		MG 6/3340	Control rod (for tractors supplied 1957 onwards).
		MG 6/3345	Screw top cover.
		MG 6/3356	Clevis and pin control rod (for tractors supplied 1957 onwards).
		MG 6/3368	Union $\frac{3}{8}$ " B.S.P.
		MG 6/3410	Cover tube.
		MG 6/3411	Retaining cap.
		MG 6/3421	Gasket
		MG 6/3424	Gasket
		MG 6/3437	Screw clutch housing.
		MG 6/3447 A	Bearing lifting shaft R.H.
		MG 6/3449 A	Bearing lifting shaft, L.H.

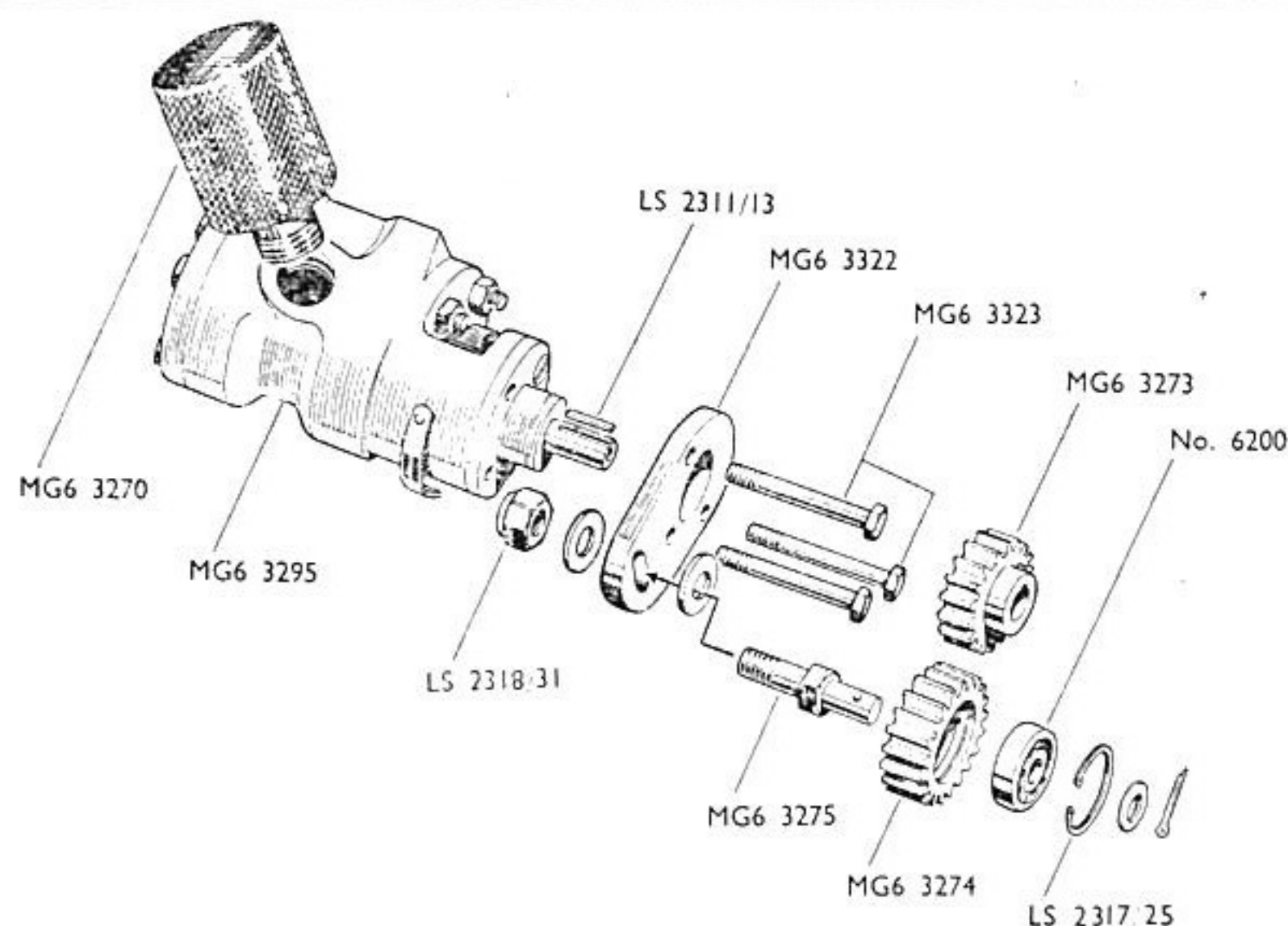


Fig. 18



MG 6/3452 A	Double lifting arm, R.H.
MG 6/3457 A	Double lifting arm, L.H.
MG 6/3476	Drawbar quadrant.
MG 6/3522	Lug outer lower link, R.H.
MG 6/3529	Lug outer lower link L.H.
MG 6/3594	Distance piece.
MG 6/3595	Adaptor.
MG 6/3597	Lifting shaft.
MG 6/4021	Knob P.T.O. clutch lever (for tractors No. 11450 onwards).
MG 6/4021	Knob hydraulic control lever (for tractors No. 11450 onwards).
NA 5704	Lubricator lifting shaft bearings.
NA 5704	Lubricator clutch housing.
NO 6200	Ball bearing intermediate gear.
RL 10	Ball bearing P.T.O. shaft.
RL 11	Ball bearing P.T.O. shaft.
SD 1895	Pin control rod sleeves (for tractors supplied prior to 1957).
SD 4443	Spring relief valve.
LBJ 26	Spring valve tap.
MGE 82	Ball clutch lever.
PSF 836D	Pin clips lifting arms.
UFB 104/9 R	Bolt control lever bracket.
UFB 106/7 R	Bolt pump gear box.
UFB 106/10 R	Bolt control lever.
UFS 104/3 R	Screw valve spring bracket.
UFS 104/4 R	Screw gear box side plate.
UFS 104/4 R	Screw oil seal retainer.
UFS 104/5R	Screw pump.
UFS 106/8 R	Adjusting screw (gear box top cover).

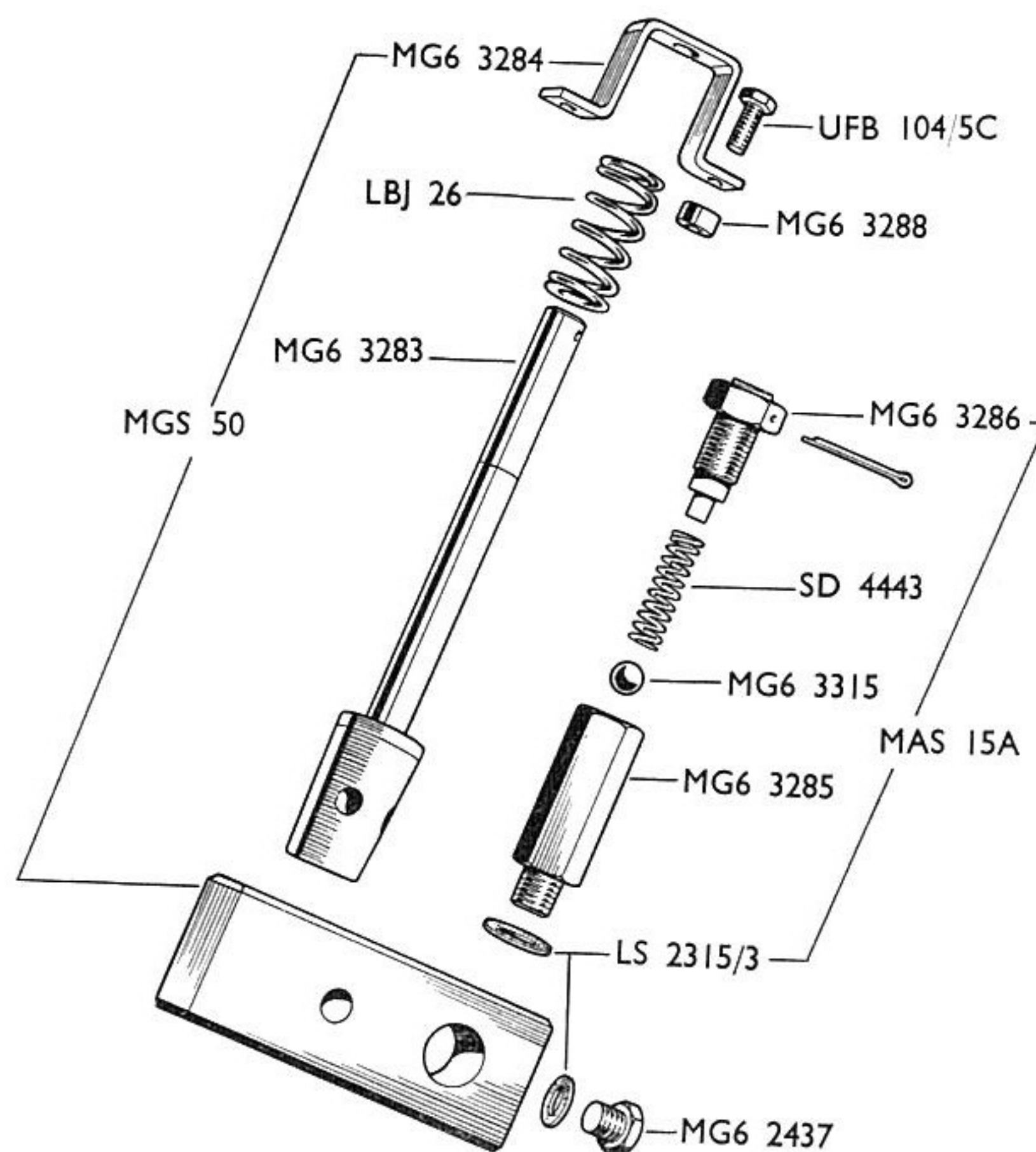


Fig. 19

## CONVERSION UNITS FOR HYDRAULIC LINKAGE

To convert an existing tractor with hand lift and no power take-off to a tractor with hydraulic lift and linkage for standard toolbar work and R.H. ploughing, the following assemblies will be required:

1—MAS 42, 1—MAS 52.

To change an existing tractor with hand lift and power take off, to a machine with hydraulic lift and standard linkage, the following will be required:

1—MAS 15, 1—MAS 16, 1—MAS 42, 1 MAS 51, 1—MAS 54, 1—MG6/3410.

To convert standard linkage to R.H. and L.H. linkage for reversible share ploughing the following assembly will be required:

1—MAS 20.

To convert an existing tractor with hand lift and no power take-off to a tractor with hydraulic lift and vertical linkage for use with Ransomes special toolbar C78, the following will be required:-

1—MAS 52, 1—MAS 56.

To change an existing tractor with hand lift and power take-off to a machine with hydraulic lift and vertical linkage the following will be required:

1—MAS 15, 1—MAS 16, 1—MAS 51, 1—MAS 54, 1—MAS 56, 1—MG6/3410.

To convert a tractor fitted with hydraulic lift and small ( $2\frac{1}{8}$ " diameter) lifting ram and standard linkage to a machine with vertical linkage the following will be required:

1—MAS 51, 1—MAS 54, 1—MAS 56, 1—MAA .0567, 2—LS 2317/1.

To convert a tractor fitted with hydraulic lift and large ( $3\frac{7}{16}$ " diameter) lifting ram and standard linkage to a machine with vertical linkage the following will be required :

1—MAS 56.



## HYDRAULIC LINKAGE SECTION (STANDARD LIFT) Figs. 20, 21, 22, 23, 24

MAS 17	Small lifting ram complete.
MAS 17 A	Cylinder small lifting ram.
MAS 19 A	No. 2 backplate small lifting ram.
MAS 19 B	Adjustable lifting rod.
MAS 19 C	Top link.
MAS 19 D	Outer lower link, R.H.
MAS 19 E	Outer lower link, L.H.
MAS 19 F	Inner Lower Link, R.H.

NOTE: The shock absorber is transferred from MAS 19 E to MAS 19F for use in R.H. ploughing).

MAS 20 A	Inner lower link, L.H.
MAS 20 B	Trip lever.
*MAS 51	Large lifting ram complete.
*MAS 51 A	Cylinder large lifting ram.
*MAS 54	No. 3 backplate large lifting ram.
MGS 41	Screw and jaw piece adjustable lifting rod.
MGS 42	Shock absorber.
MGS 43	Trip lever.
LS 2317/35	Circlips trip, 1/2" external type.
LS2318/31	Self lock nut plunger bracket bolt. (Small lifting ram).
U175100	Oil seal small lifting ram plunger (Angus)
U 3200218	Oil seal large lifting-ram plunger (Angus)

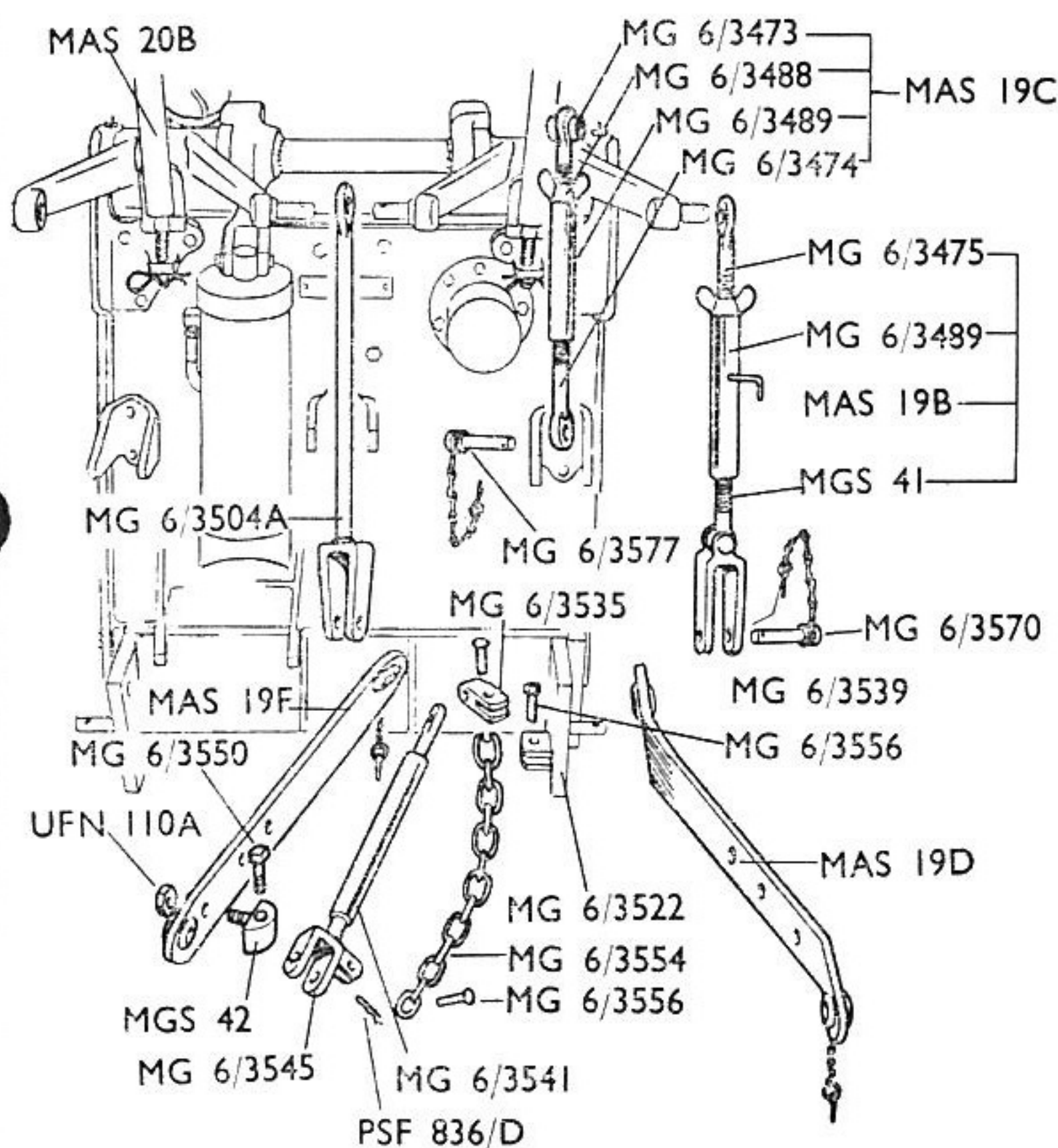


Fig. 21 Linkage for Right Hand Ploughs

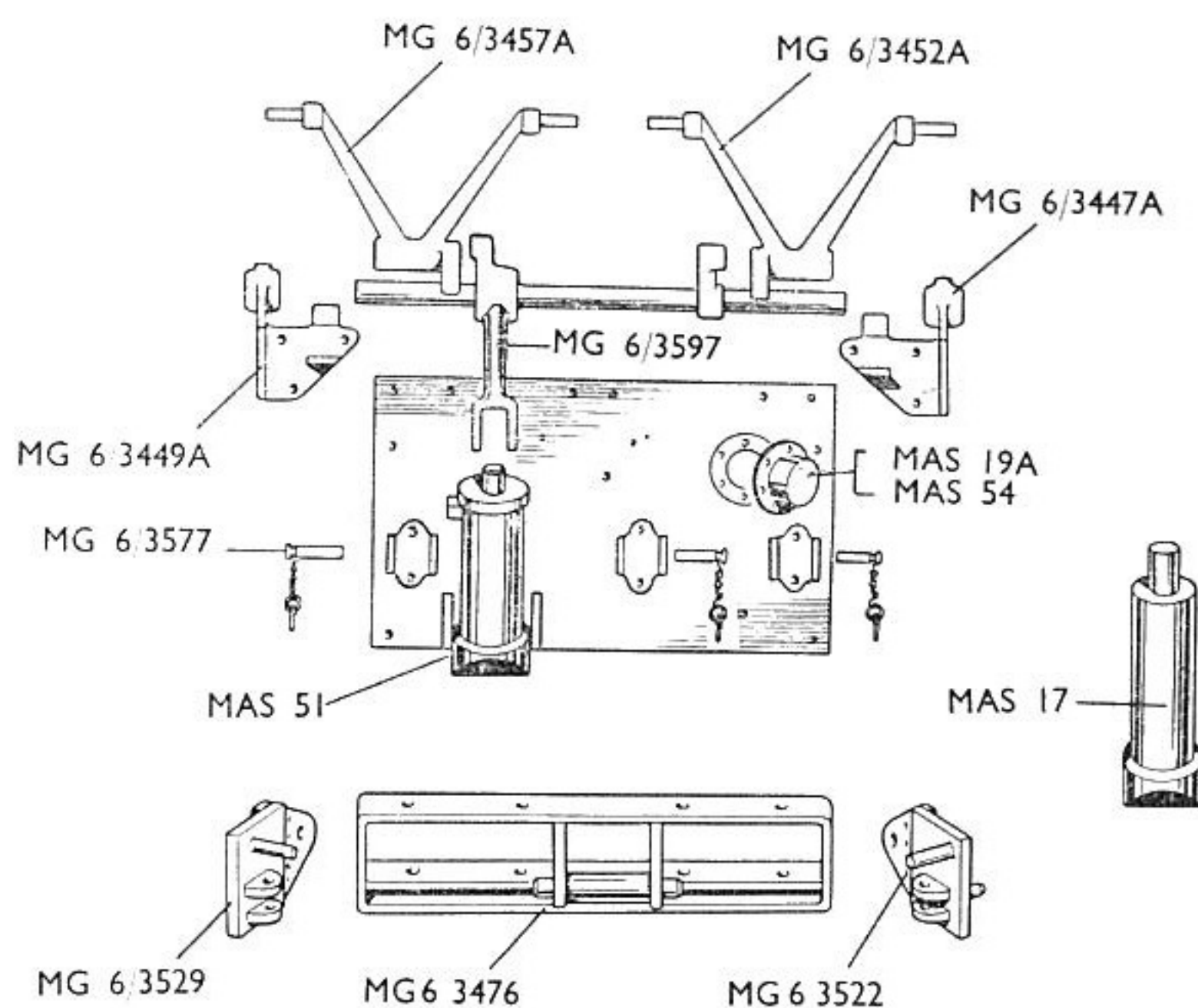


Fig. 20

*MG 6/3060	Piston end (large lifting ram).
*MAA 0567	Spindle (large hydraulic ram).
LS 2317/1	Circlip for ditto.
*MG 6/3061	Supporting ring oil seal (large lifting ram)
*MG 6/3062	Spacer piston (large lifting ram).
MG 6/3368	Union cylinder cap (bottom).
MG 6/3369	Cylinder cap (top).
MG 6/3370	Felt pad plunger.
MG 6/3371 A	Piston lifting ram.
MG 6/3372	Spacer small lifting ram piston.
MG 6/3378	Supporting ring oil seal (small lifting ram)
MG 6/3379	Clamping ring oil seal.
MG 6/3387	Rubber rings plunger.
MG 6/3389	High pressure pipe.
MG 6/3390	Low pressure pipe.
MG 6/3447 A	Bearing lifting shaft, R.H.
MG 6/3449 A	Bearing lifting shaft, L.H.
MG 6/3452 A	Double lifting arm, R.H.
MG 6/3457 A	Double lifting arm, L.H.
MG 6/3473	Screw and ball joint top link (top).
MG 6/3474	Screw and ball joint top link (bottom).
MG 6/3475	Screw and ball joint adjustable lifting rod.
MG 6/3476	Drawbar quadrant.
MG 6/3488	Wing nuts top links adjustable rods.
MG 6/3489	Turnbuckle top link.
MG 6/3498	Turnbuckle lifting rod.
MG 6/3504 A	Fixed lifting rod.
MG 6/3522	Lug outer lower link, R.H.
MG 6/3529	Lug outer lower link, L.H.
MG 6/3535	Swivel joint checkrod.
MG 6/3539	Bolt swivel joint.

\* Only supplied for tractors fitted with vettical lift, toolbar linkage,



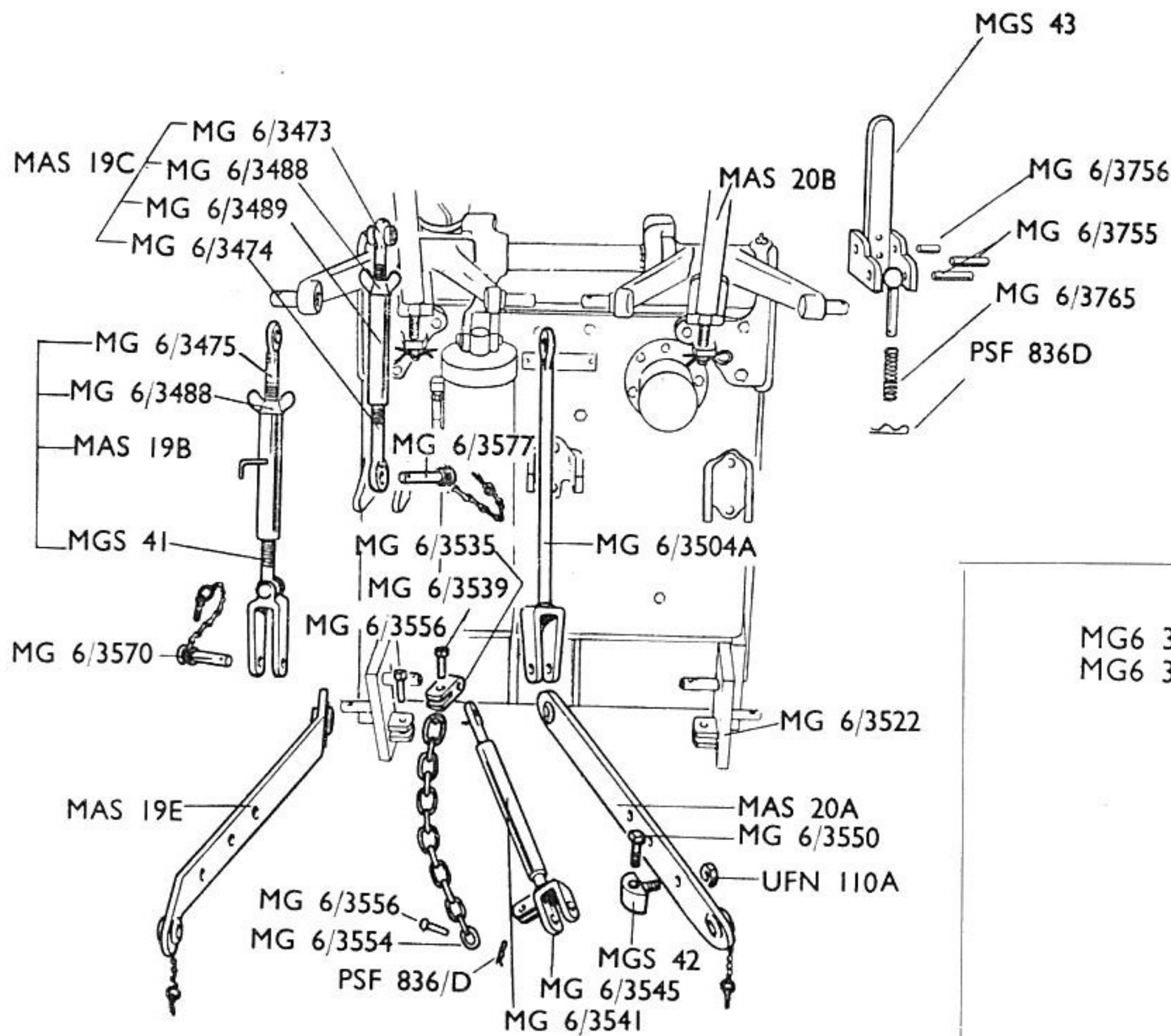


Fig. 22

Linkage for Left Hand  
ploughs.

MG 6/3541	Check rod sleeve.
MG 6/3545	Check rod (short).
MG 6/3550	Bolt for check rod.
MG 6/3554	Check chain.
MG 6/3556	Pins check, lifting rods.
MG 6/3558	Check rod (long).
MG 6/3570	Cotter pin and hitch pin (short).
MG 6/3577	Cotter pin and hitch pin (long).
MG 6/3579	Cotter pins lower links.
MG 6/3586	Cotter pins lifting arms.
MG 6/3594	Distance piece top link bracket.
MG 6/3595	Adaptor for ditto.
MG 6/3597	Lifting shaft.
MG 6/3601	Pin for ditto.
MG 6/3755	Pin trip lever.
MG 6/3756	Roller trip.
MG 6/3765	Springs trip lever.
PSF 836 D	Clip trip casting pins.
PSF 836/D	Clip check chains and lifting rod pins.
NA 5704	Lubricator lifting shaft and bearings.
UFB 106/8R	Bolt backplate.
UFB 106/14 R	Bolt double lifting arm dogs.
UFB 106/14 R	Bolt lifting shaft bearings.
UFB 108/30 R	Bolt top link adaptors.
UFB 110/40 R	Bolt plunger bracket (small lifting arm).

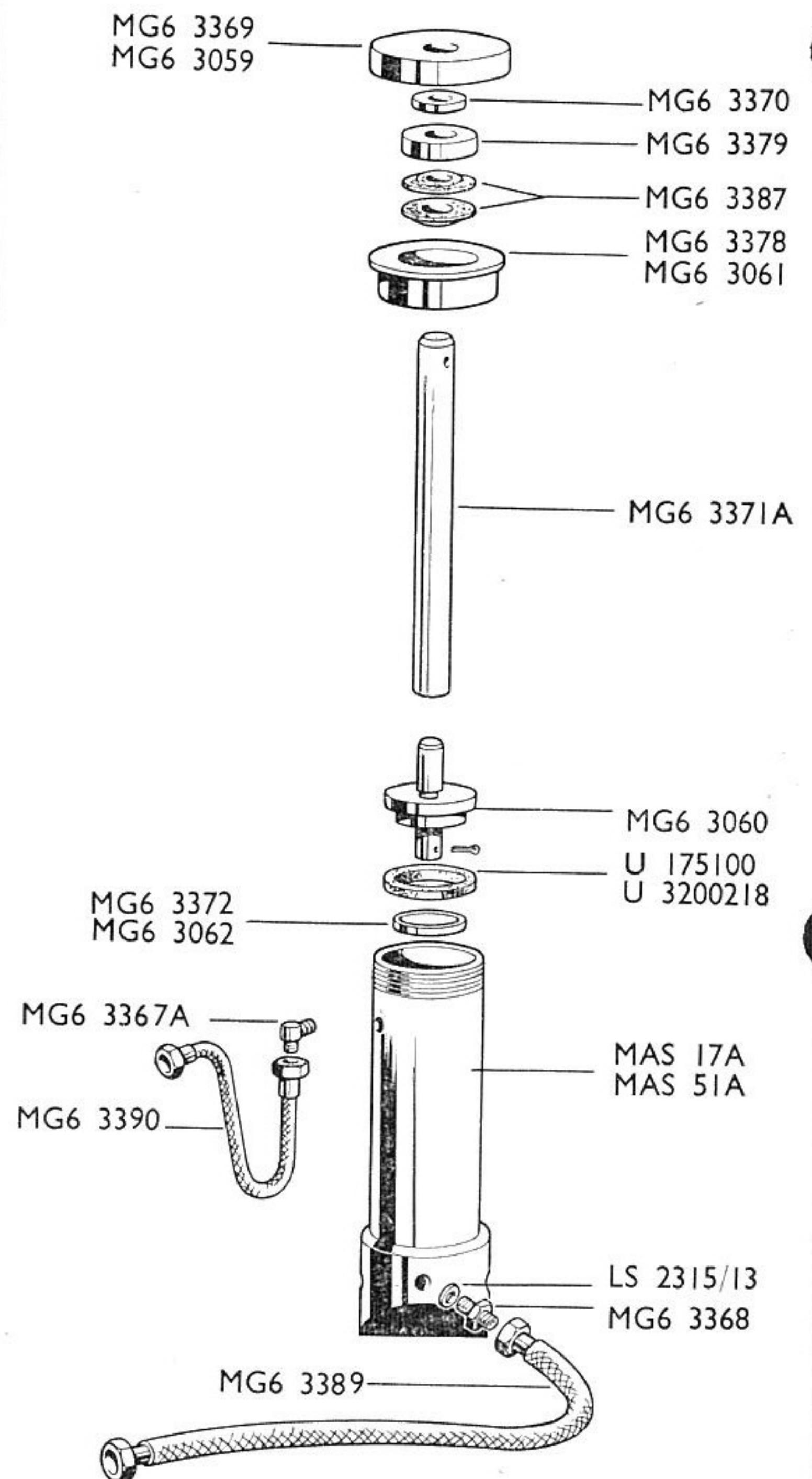
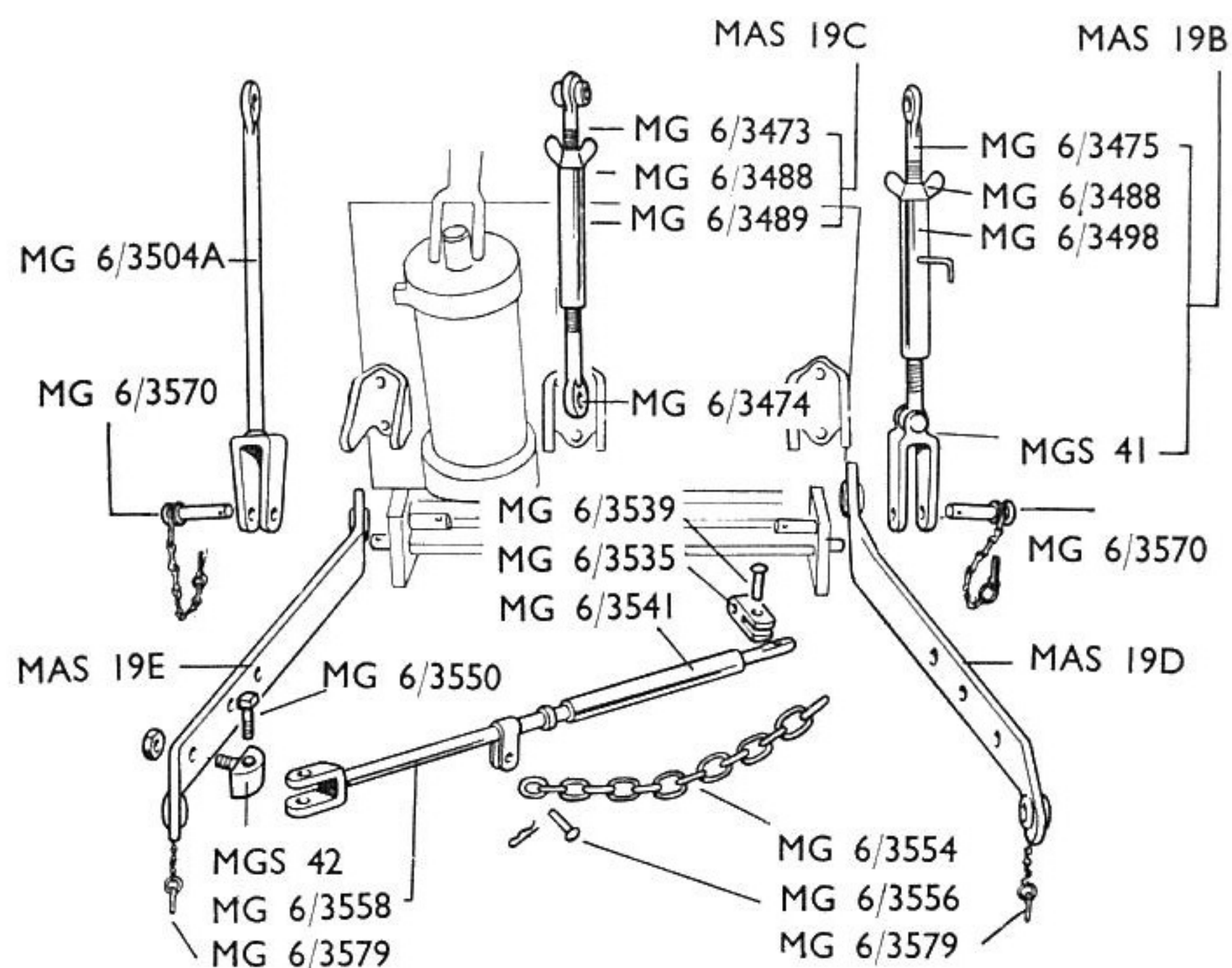


Fig. 23



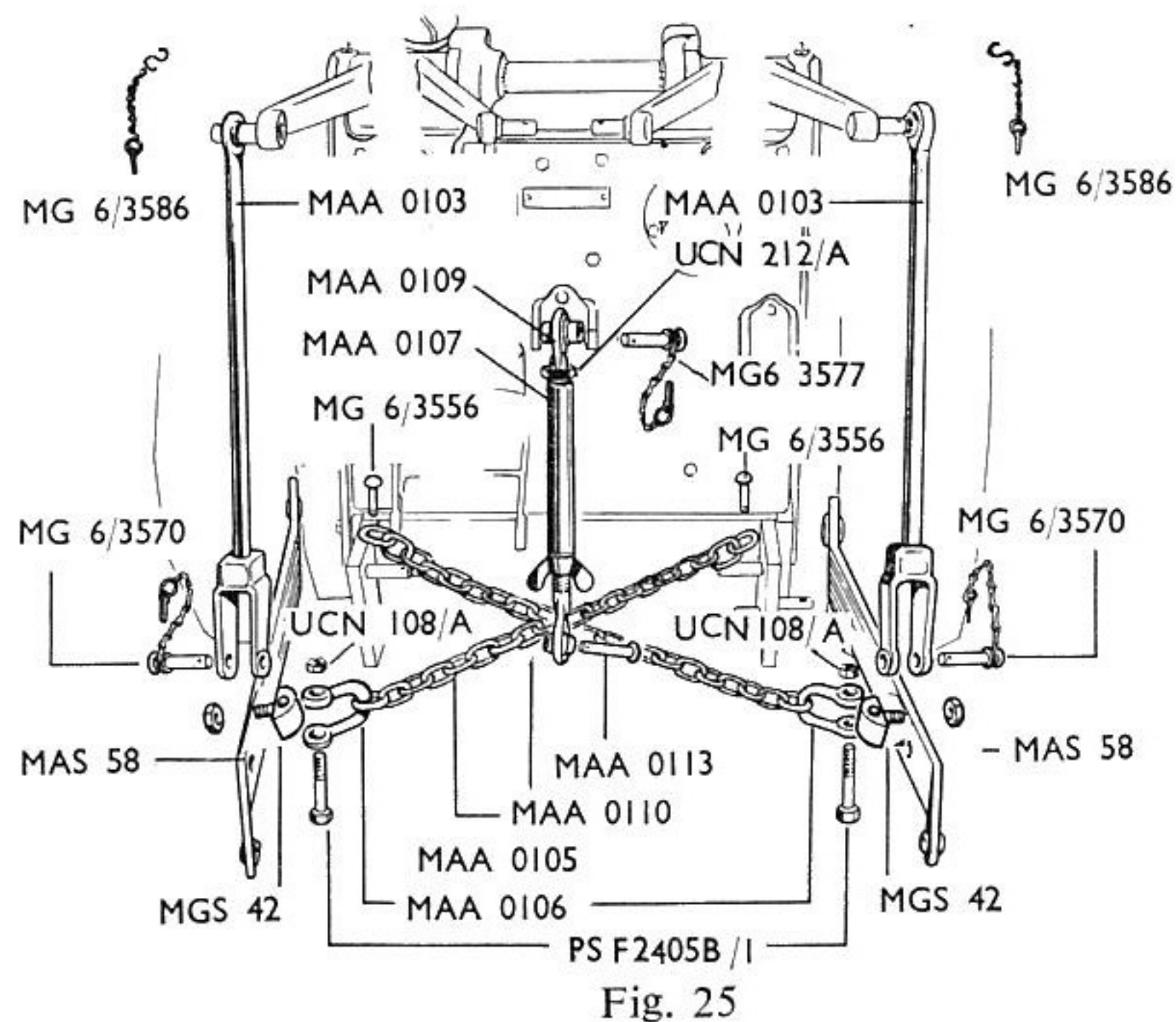
Fig. 24  
Linkage for Rear Mounted Toolbars



## SPECIAL LINKAGE FOR VERTICAL LIFTING USED IN CONNECTION WITH RANSOMES C78 TOOL BAR FRAME (Fig. 25)

NOTE: It is essential that this linkage be used in conjunction with the large lifting ram only.

MAS 57	Top link.
MAS 58	Lower link.
MG 6/3556	Shackle pin check chain.
MG 6/3570	Cotter pin and hitch pin (short).
MG 6/3577	Cotter pin and hitch pin (long).
PSF 2405B/1	Bolt—check chain shackle.
MG 6/3586	Cotter pin lifting arms.
MAA 0098	Arched stay tractor chassis.
MAA 0103	Fixed lifting rod.
MAA 0105	Check chain.
MAA 0106	Shackle check chain.
MAA 0107	Turnbuckle top link.
MAA 0109	Screw and ball joint top link (top).
MAA 0110	Screw and ball joint top link (bottom).
MAA 0113	Cotter pin and hitch pin (long).
UCN 212	Locknut top link turnbuckle.





## STEADYING WHEEL SECTION (Fig 26)

MAS 14	Steadying wheel, R.H.
MAS 14 A	Steadying wheel, L.H.
LS 2313/7	Wheel tyre.
LS 2313/7 A	Inner tyre.
MG 5/821	Stem.
MG 5/826	'U' clamp.
MG 6/2808	Nut clamp screw.
MG 6/3231	Wheel axle.
MG 6/3237	Clamp plate, R.H.
MG 6/3238	Clamp plate, L.H.
TW 89	Pneumatic tyred wheel complete.
UFB 106/9 R	Bolt clamp plate.

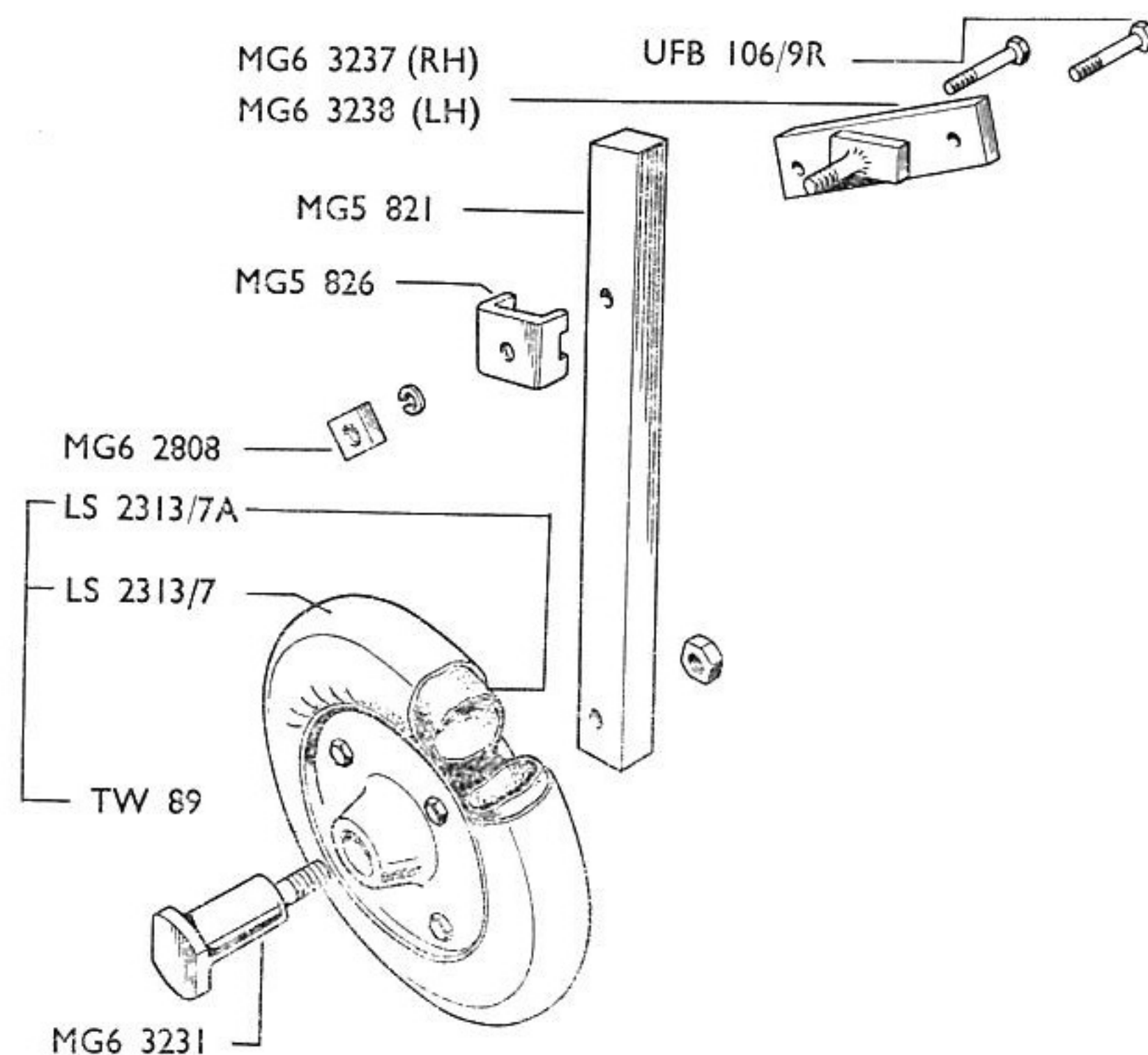


Fig. 26

## PARKING BRAKE SECTION (Fig 27)

MAS 13	Parking brake, R.H. assembly.
MAS 13 A	Parking brake, L.H. assembly.
LS 2521/9	Screws ratchet brackets.
MG 5/788	Bracket ratchet.
MG 5/792	Ratchet.
MG 6/3199	Parking brake lever, R.H.
MG 6/3200	Parking brake lever, L.H.
MG 6/3203	Pawl.
MG 6/3204	Pin pawl.
MG 6/3206	Operating rod.
MG 6/3207	Brake lifting lever.
MG 6/3221	Knob parking brake (for tractors prior to No. 11450).
MG 6/4022	Knob parking brake (for tractors after No. 11450).
SD 3655	Spring operating rod.

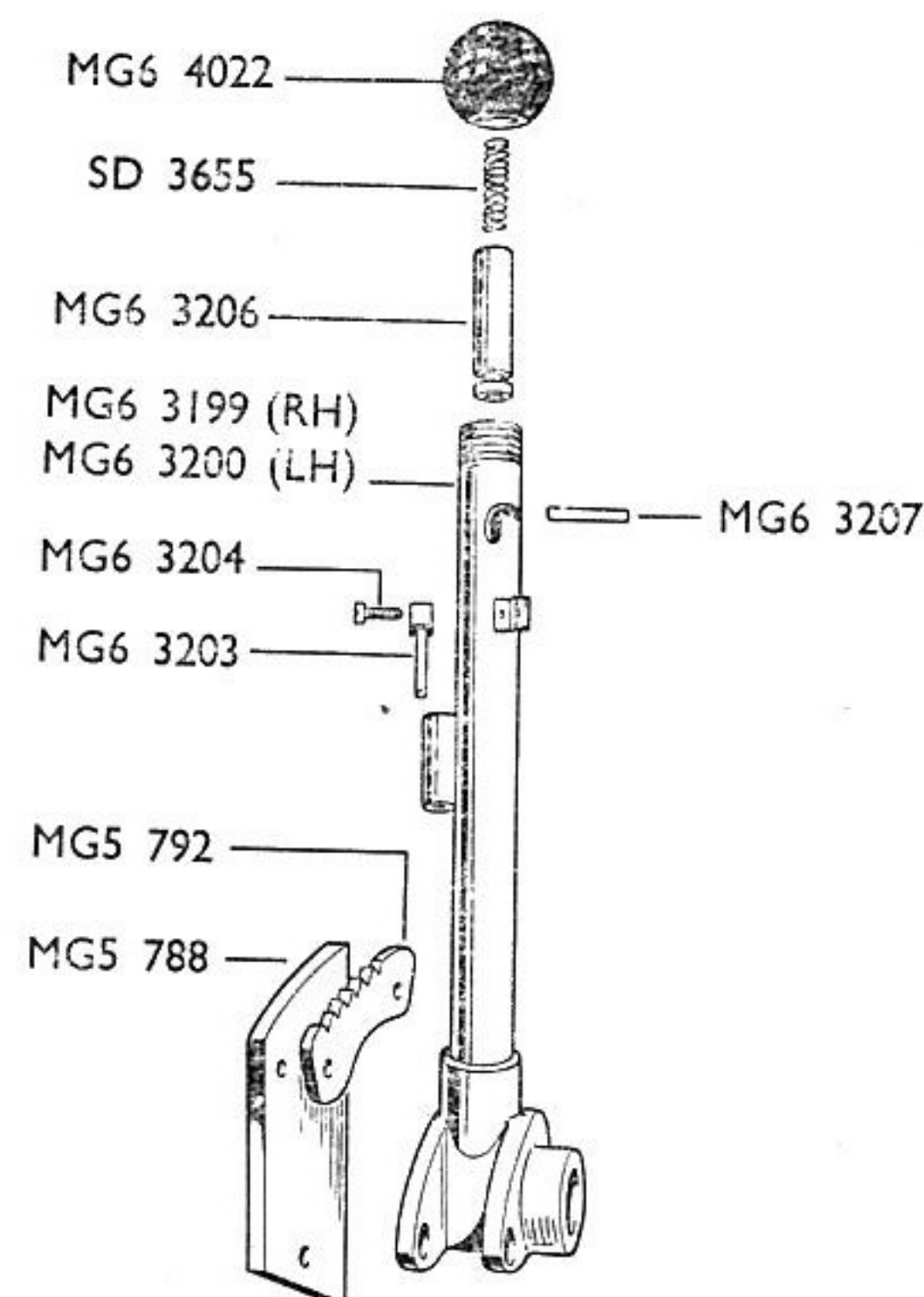


Fig 27