

OPERATING INSTRUCTIONS & SPARE PARTS LIST

FOREMASTER FORKLIFT WITH DISC BRAKES (CAPACITY 25 CWT)

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> WINGET LIMITED PO BOX 41 EDGEFOLD INDUSTRIAL ESTATE PLODDER LANE BOLTON LANCS BL4 OLS TEL: ++ 44 (0) 1204 854650 FAX: ++ 44 (0) 1204 854663 service@winget.co.uk parts@winget.co.uk www.winget.co.uk

INTRODUCTION

This Parts & Operators Manual is a re-print of the manual last published in 1973 and contains some amended part numbers.

Health & Safety legislation and working practices applicable to Forklift Trucks, both 2 and 4 wheel Drive, Rigid Chassis and Articulated Chassis have changed considerably in the years since this manual was last published. We would recommend that only trained operators who are in possession of the relevant certification issued by a recognised Training Authority be allowed to operate this equipment.

Reference is made on a number of pages to 'bolt c/w nut and washer', this no longer the case, fixings such as nuts, bolts, screws and washers should be ordered as individual items. A number of Whitworth and B.S.F fixings are now no longer available, in these cases the nearest metric equivalent size will be supplied.

The contents of this manual although correct at the time of publication, may be subject to alteration by the manufacturers without notice and Winget Limited can accept no responsibility for any errors or omissions contained within the following pages. Nor can we accept any liability whatsoever arising from the use of this manual howsoever caused.

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PREPARATION FOR USE

BEFORE THE FOREMASTER IS PUT INTO SERVICE ALWAYS CHECK THE FOLLOWING POINTS:--

(See Fig.1)

1. Engine

Check the oil level on the dipstick (A), topping up if necessary to the full mark. See also 'Recommended Lubricating Oils', page 16.

2. Gearbox

Check the oil level on the dipstick (B), topping up if necessary to the full mark. See also 'Recommended Lubricating Oils', page 16.

3. Drive Axles and Transfer Case

Remove level plugs (C) from drive axles or filler plug (D) from transfer case and check that oil is up to bottom of level holes. Top up if necessary through filler plug (E) or filler/level plug (D) if necessary. See also 'Recommended Lubricating Oils', page 16.

4. Fuel Tank

Fill tank in (F) with diesel oil until approximately 1" from the top.

NOTE:- Never allow fuel level to fall to below 2" deep in the bottom of the tank.

5. Hydraulic Tank

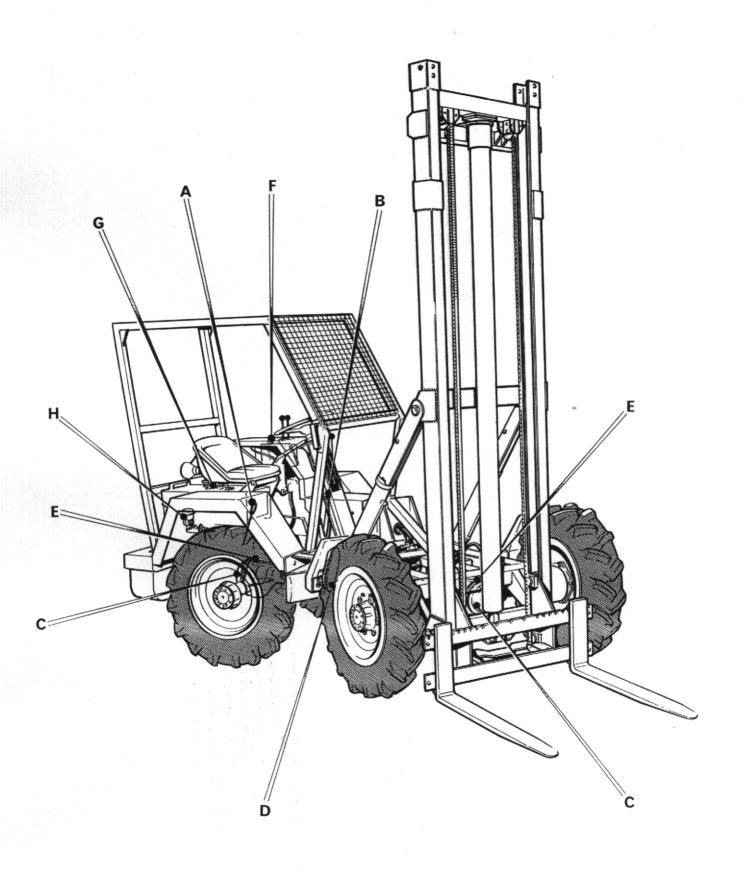
Fill the hydraulic tank (G). Before removing the cap, clean the surrounding area, to prevent the possible entry of foreign matter. DO NOT MIX OILS. See 'Recommended Lubricating Oils', page 16.

6. Brake System

Ensure the brake master cylinder reservoir (H) is full of brake fluid. Top up if necessary to within ¼" of the top of the reservoir. Use only brake fluid that conforms to S.A.E. J 1703

7. Miscellaneous

Check all wheel nuts for tightness. Check all nuts and bolts for tightness. Loose nuts and bolts may lead to damage not covered by the Foremaster Warranty.



OPERATION

Starting

(See Fig.2)

- 1. Lift red-painted overload stop (A) situated on the fuel pump rack above and to the rear of the priming levers (B) and move fuel pump rack (C) into fully-open position.
- 2. Operate priming levers (B) six times.

NOTE:- This is unnecessary if engine is already warm.

- Lift decompression lever (D), positioned on top of engine and turn engine as fast as possible using starting handle. When engine is turning at a good speed, knock down decompression lever and engine should fire.
- If engine does not fire, lift decompression lever and slowly crank engine a few times before attempting to start again. Where ambient temperature is 5°F (-15°C) or below, a cold start aid should be fitted.

Stopping

(See Fig.3)

Pull out stop control knob and hold in its fully forward position until engine stops. Release stop control knob when engine has ceased to turn.

IMPORTANT:

- DO NOT stop engine by means of decompression levers, this will lead to damaged valve seats and cylinder head joints.
- 2. DO NOT stop engine by closing fuel tap or by allowing fuel tank to run dry, this will allow air into fuel lines and necessitate bleeding and priming system.

Gear Shift Lever

(See Fig.4)

The Foremaster is fitted with three forward (1), (2), (3), and one reverse (R) gear. When changing gear, the clutch pedal is used in the normal manner.

Fork and Mast Tilt Control Levers

(See Fig.5)

- 1. The control levers each have three positions, two operating positions as shown in Fig.5 and a hold facility i.e.: when a lever is released it will automatically return to the central position.
- 2. The control lever travel (and therefore tilt speed) is preset at the factory by adjustment of the setting screws (C) and (D) shown in Fig.9. These settings must NOT be altered.

GENERAL MAINTENANCE

Periodic Maintenance

- 1. DAILY check engine oil level and fill to full mark on dipstick, if necessary.
- 2. DAILY fill fuel tank, or as often as proves necessary to approximately 1" of top. Never allow there to be a depth of less than 2" of fuel in tank.
- 3. WEEKLY check oil level in gearbox and fill to full mark on dipstick, if necessary.
- 4. WEEKLY remove oil level plugs from drive axles and transfer case. Oil level should be to bottom of holes. Top up, if necessary through filler plugs on drive axles or through filler/level plug in transfer case.
- 5. WEEKLY check oil level in hydraulic tank. Always clean the surrounding area before removing cap to prevent possible entry of foreign matter. Fill tank, if necessary, to within 1" of top.
- 6. WEEKLY check brake fluid level in master cylinder reservoirs and top up if necessary, to within ¼" of top.
- WEEKLY apply grease to all grease nipples.
- 8. WEEKLY liberally apply grease between the outer and inner frames of the mast assembly. (For clarification see items A and B in Fig.10) Use Mobilgrease Special or Shell Alvania 2 with M.O.S.
- WEEKLY apply a light grade oil to the fork lift chains.
- 10. WEEKLY check all wheel nuts and tighten if necessary.
- 11. WEEKLY check tyre pressures 60 lb/sq.in.
- 12. OCCASIONALLY check all nuts and bolts, and tighten if necessary.

Lubrication

10	m •	\sim
1500	FIG	h)
(See	- ' ''	,

Period	Key	Description	Lubrication	No. of Points
Daily	1	Engine	Engine Oil	1
Uarry	2	Fuel Tank	Diesel Fuel	1
	3	Gearbox	Gearbox Oil	1
	4	Drive Axles	Axle Oil	2
	5	Hydraulic Tank	Hydraulic Oil	1
	6	Brake Master Cylinder Reservoirs	Brake Fluid	2
	7	Footbrake Pedal	Grease Gun	1
	8	Footbrake Master Cylinder Actuating Lever	Grease Gun	1
· · · · · · · · · · · · · · · · · · ·	9	Trunnion Assembly	Grease Gun	1
Weekly	10	Clutch Pedal	Grease Gun	1
VICENTY	11	Clutch Cross Shaft	Grease Gun	2
	12	Mast Pivot	Grease Gun	2
	13	Handbrake Cable	Grease Gun	1
	14	Chassis Centre Pivot	Grease Gun	2
	15	Front Prop Shaft and U.J.'s	Grease Gun	3
	16	Transfer Case	Axle Oil	1
	17	Mast Frame	Grease	
	18	Fork Carriage Chains	Oil	

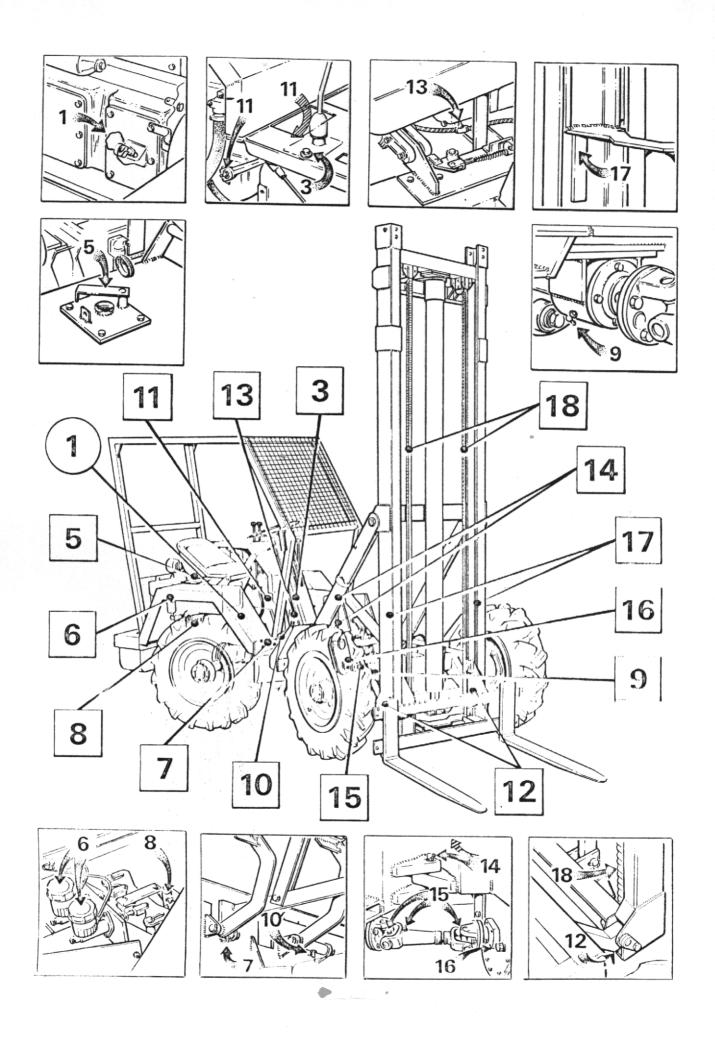
N.B. FOR RECOMMENDED LUBRICATING OILS SEE CHART ON PAGE 16

Oil	Capa	cities
-----	------	--------

Transfer Box1 pt. (.6 litres)	Drive Axle
Gear Box	Engine

NOTES: 1. Rear Axle articulation points consist of bearings that require no lubrication.

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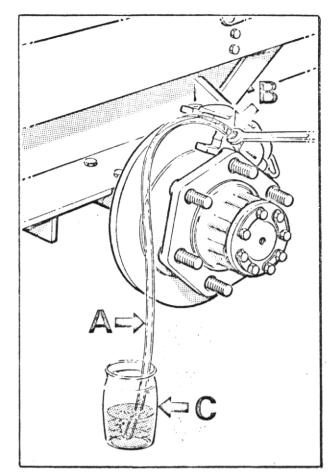
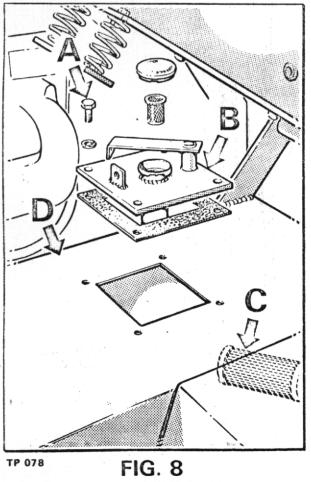


FIG. 7



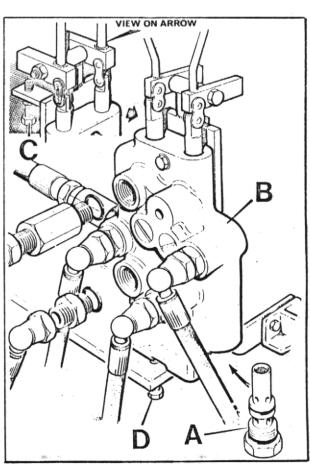


FIG. 9

Brake System

The brake system is designed to require the minimum of maintenance, and, providing the hydraulic fluid in the reservoirs is not allowed to fall below the recommended level, no defects should normally occur. Fluid loss must be supplemented by topping up the reservoirs with Girling Crimson Brake Fluid. No other fluid may be used. If air is present in the system it will be indicated by sluggish response of the brakes and by spongy action of the brake pedal. This may be due to air being introduced at a loose joint or by the reservoir fluid levels being allowed to fall very low. These defects must be remedied immediately and the complete system bled.

To bleed the system, proceed as follows:-

- 1. Check that all connections are tight and all bleed screws are closed.
- 2. Fill reservoirs with Girling Crimson Brake Fluid.
- 3. Attach bleeder tube (A) (See fig.7) to one of the bleed screws (B) and immerse other end in a small quantity of brake fluid contained in a glass jar (C). Slacken bleed screw and operate brake pedal up and down to its full stroke until fluid pumped into the jar contains no air bubbles. Hold down pedal and close bleed screw. Remove bleeder tube and release pedal.
- 4. Repeat on other 3 wheels, completing one axle and then passing on to the other.
- 5. Continue until all air has been bled from the system.
- 6. Lock all bleed screws and top up reservoirs to the correct level.
- 7. Apply normal working load on brake pedal for two or three minutes and examine entire system for leaks.
- NOTE: DURING THE OPERATION IT IS ESSENTIAL THAT THE RESERVOIR LEVELS ARE KEPT TOPPED UP TO PREVENT FURTHER AIR BEING DRAWN INTO THE SYSTEM. ONLY USE NEW FLUID FOR TOPPING UP.

Main Hydraulic System

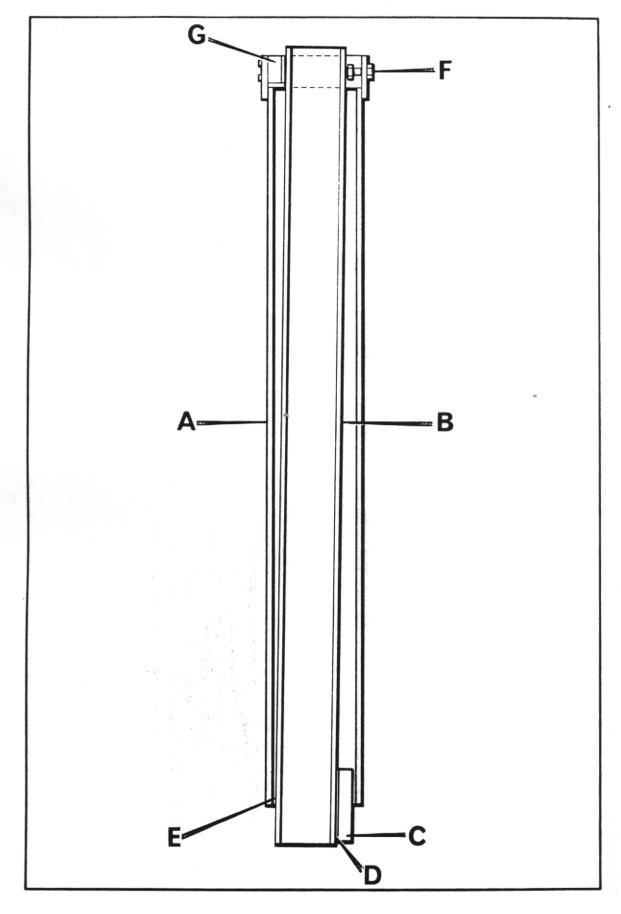
The main hydraulic system controls the tilt of the mast, the raise and lower of the fork carriage and also provides the power for the steering. If the system fails to operate or does so extremely slowly, carry out the following procedure until the fault is rectified.

- 1. Check that hydraulic tank is full of oil.
- 2. Check that hydraulic filter is not blocked (See Fig.8)
 - a) Remove the four setscrews (A) that secure the filler cap assembly (B) and remove assembly.
 - b) Unscrew suction filter (C) from inside tank (D) and wash in white spirit. Dry with moisture-free compressed air.
 - c) Replace suction filter and filler cap assembly.
- NOTE: If suction filter cannot be thoroughly cleaned, fit a new one.
- 3. Check that hydraulic pressure is correct.
 - a) Fit a 2000 lb/sg in gauge into the hydraulic system at the base of the tilt ram.
 - b) Operate control lever to tilt mast forward, and check that pressure reading on gauge is 1750 lb/sq.in. when ram is fully extended and relief valve is 'blowing'.

NOTE: If correct pressure is not attained:-

- Remove relief value cartridge (A) (hexagon head) from the bottom of the control value
 (B) (See Fig.9) and replace with a new one.
- 5. Remove hose adaptor (C) from control valve (See Fig.9), remove hexagonal orifice plate (D) and wash in white spirit. Dry using moisture-free compressed air. DO NOT poke wire etc., into the orifice. Re-fit plate and hose adaptor with slot of orifice plate facing outwards.
- IF none of these procedures correct the fault, contact your Winget agent. Periodically check the hose between the pump and the tank to ensure it is not deformed. Any deformation in the hose may result in a restricted flow of fluid and damage to the pump.

IMPORTANT:-- ON NO ACCOUNT SHOULD THE STEERING VALVE BE DISMANTLED, SHOULD IT REQUIRE ATTENTION REMOVE IT COMPLETE AND RETURN TO THE FACTORY.



TP 079

FIG 10

Mast Maintenance

(See Fig. 10)

- 1. PERIODICALLY adjust fork lift chains to keep fork mounting frame level.
- PERIODICALLY check shims between bottom wear strip (C) and inner frame assembly (B). If wear is occurring add additional shims (D) as necessary to maintain about 1/16" clearance at gap (E), when the mast is lowered – check the gap through the full extension of the mast.
- NOTE: With mast fully lowered the bottom wear strip is accessible beneath the machine frame.
- 3. PERIODICALLY fully raise the fork lift and check the wear strip and block on the channel at the top of the outer frame (A). If wear has occurred, adjust the special bolt (F) accordingly. When the wear pads (G) have worn down and are exposing the metal, remove the wear pads and replace them.

SPECIFICATION

	А	Overall height (Transportation position)		9'-6''	(290 cm)	
	В	Overall length (minus forks)		10'-1''	(307 cm)	
	С	Wheelbase		5'-7¼''	(171 cm)	
	D	Length from front axle to rear of forks		1'-9''	(171 cm) (53 cm)	
	E	Load centre		1 —9 2'—0''		
	F	Fork length		2 —0 4'—0''	(61 cm)	
	G	에서 사람이 있는 것 같은 것은 것이 있는 것이 이 사람이 것 같은 것은 것은 것은 것이 있는 것이			(121 cm)	
		Overall height (forks lowered)		12'0''	(366 cm)	
	Н	Fork centres		3'-4''	(102 cm)	
			Min.	5″	(13 cm)	
	J	Wheeltrack		4'-10''	(147 cm)	
	К	Overall Width		5′—9½′′	(177 cm)	
	Max	mum load at 2/ 0// (61 am) load control		05	(1070)	
		mum load at 2'-0'' (61 cm) load centre		25 cwt.	(1270 kg)	
		l lift of forks		18'-0''	(549 cm)	
		Ind clearance		11½"	(29 cm)	
		ing Circle		24'-6''	(747 cm)	
		den weight		n 11 cwt -	(3607 kg)	
	,	raulic relief valve pressure	1750	lb/ins ²	(123 kg/cm ²)	
	Rear	axle articulation		1'-2''	(36 cm)	
	Lifti	ng time, loaded		30 sec.		
	Low	ering time, loaded		16 sec.		
	Roa	d Speeds at 2000 RPM		m.p.h.	k.p.h.	
		1st		2.7	4.3	
		2nd		6.2	9.9	
		3rd		11.4	18.3	
		Rev.		2.9	4.6	
		1157.		2.9	4.0	
,	Hyd	raulic Tank Capacity		5 gals.	22.7 litres	

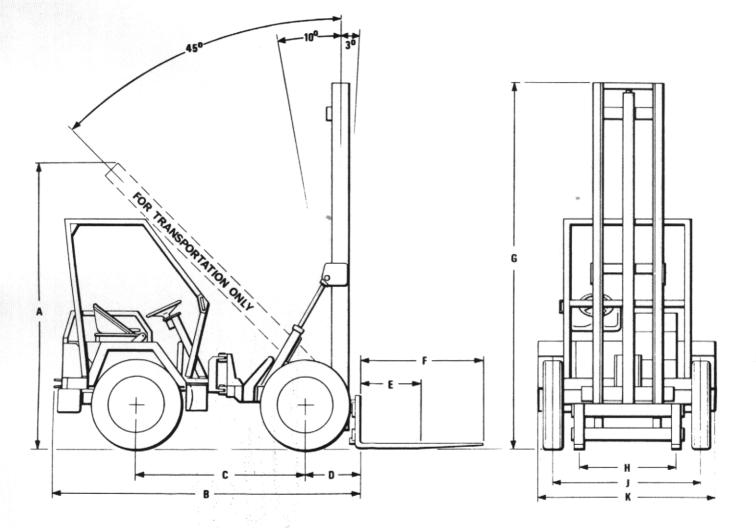


FIG. 11

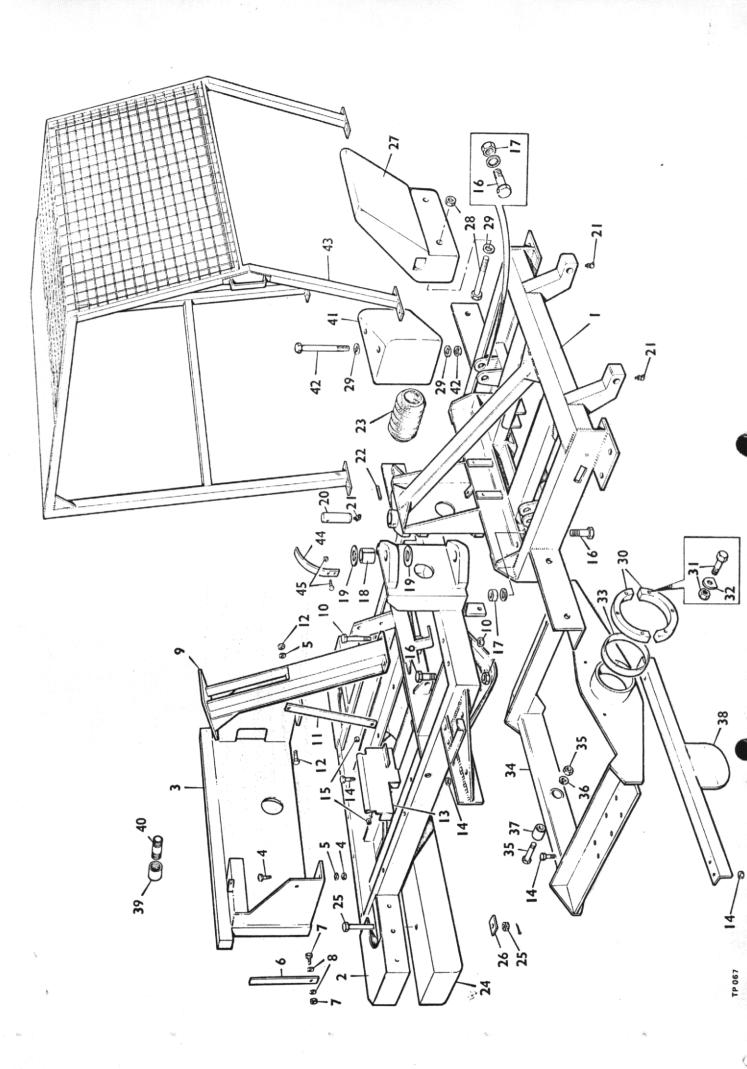
COMPANY	ANY	ENGINE PETTER LISTER PH OR PJ SR OR HR	ENGINE LISTER LR	TRANSFER BOX & DRIVE AXLE	GEARBOX	WHEEL BEARINGS & OTHER GREASE POINTS	HYDRAULIC SYSTEM
(U.K.)	SUMMER	ESSOLUBE HDX 20W	ESSOLUBE HDX 10W	GEAR OIL GP 90/140	ESSOLUBE HDX 30	BEACON 2	NUTO H 44
(Overseas)	ABOVE 90°F 32-90°F BELOW 32°F	ESSOLUBE HDX 30 ESSOLUBE HDX 20W ESSOLUBE HDX 10W	ESSOLUBE HDX 20W ESSOLUBE HDX 10W ESSOLUBE HDX 10W	GEAR OIL GP 140 GEAR OIL GP 90/140 GEAR OIL GP 80	ESSOLUBE HDX 30	BEACON 2	NUTO H 54 NUTO H 44 NUTO H 40
(U.K.)	SUMMER	DEUSOL CRI 20	DEUSOL CRI 10	DEUSOL GEAR EP 90	DEUSON CRI 30	CASTROL SPHEEROL APT 2	
	ABOVE 90°F 32-90°F BELOW 32°F	DEUSOL CRI 30 DEUSOL CRI 20 DEUSOL CRI 10	DEUSOL CRI 20 DEUSOL CRI 10 DEUSOL CRI 10	DEUSOL GEAR EP 140 DEUSOL GEAR EP 90 DEUSOL GEAR EP 90	DEUSOL CRI 30	CASTROL SPHEEROL APT 2	CASTROL HYSPIN AWS 32
(N.K.)	SUMMER	ROTELLA SX OIL 20/20W	ROTELLA SX OIL 10W	SPIRAX 90 EP	ROTELLA SX OIL 30	RETINAX A	
SHELL (Overseas)	ABOVE 90°F 32-90°F BELOW 32°F	ROTELLA SX OIL 30 ROTELLA SX OIL 20/20W ROTELLA SX OIL 10W	ROTELLA SX OIL 20/20W ROTELLA SX OIL 10W ROTELLA SX OIL 10W	SPIRAX 140 EP SPIRAX 90 EP SPIRAX 80 EP	ROTELLA SX OIL 30	RETINAX A	TELLUS OIL 27
(U.K.)	SUMMER	VANELLUS 20	VANELLUS 10W	GEAR OIL SAE 90 EP	VANELLUS 30	ENERGREASE L2	
BP (Overseas)	ABOVE 90°F 32–90°F BELOW 32°F	VANELLUS 30 VANELLUS 20 VANELLUS 10W	VANELLUS 20 VANELLUS 10W VANELLUS 10W	GEAR OIL SAE 140 EP GEAR OIL SAE 90 EP GEAR OIL SAE 80 EP	VANELLUS 30	ENERGREASE L2	ENERGOL HLP 65
(N.K.)	SUMMER	DELVAC 1220	DELVAC 1210	MOBILUBE HD 90 MOBILUBE GX 90	DELVAC 1230		
MOBIL	ABOVE 90°F	DELVAC 1230	DELVAC 1220	MOBILUBE HD 140 MOBILUBE GX 140		MOBILGREASE MP MOBILGREASE	DTE 24
*	32-90°F	DELVAC 1220	DELVAC 1210	MOBILUBE HD 90 MOBILUBE GX 90		SUPER	
(Overseas) ALL TEMPE	rseas) BELOW 32°F TEMPERATURES	DELVAC 1210 DELVAC SPECIAL 10W-30	DELVAC 1210 DELVAC SPECIAL 10W-30	MOBILURE HD 80 MOBILURE GX 80	DELVAC 1230		
•		IN THE UNLIKELY EQUIVALENT OILS SU		' EVENT OF THE ABOVE OILS NOT BEING AVAILABLE PPLIED BY A REPUTABLE MANUFACTURER MAY BE USED	NG AVAILABLE URER MAY BE USED		

RECOMMENDED LUBRICATING OILS

SPARE PARTS SECTION

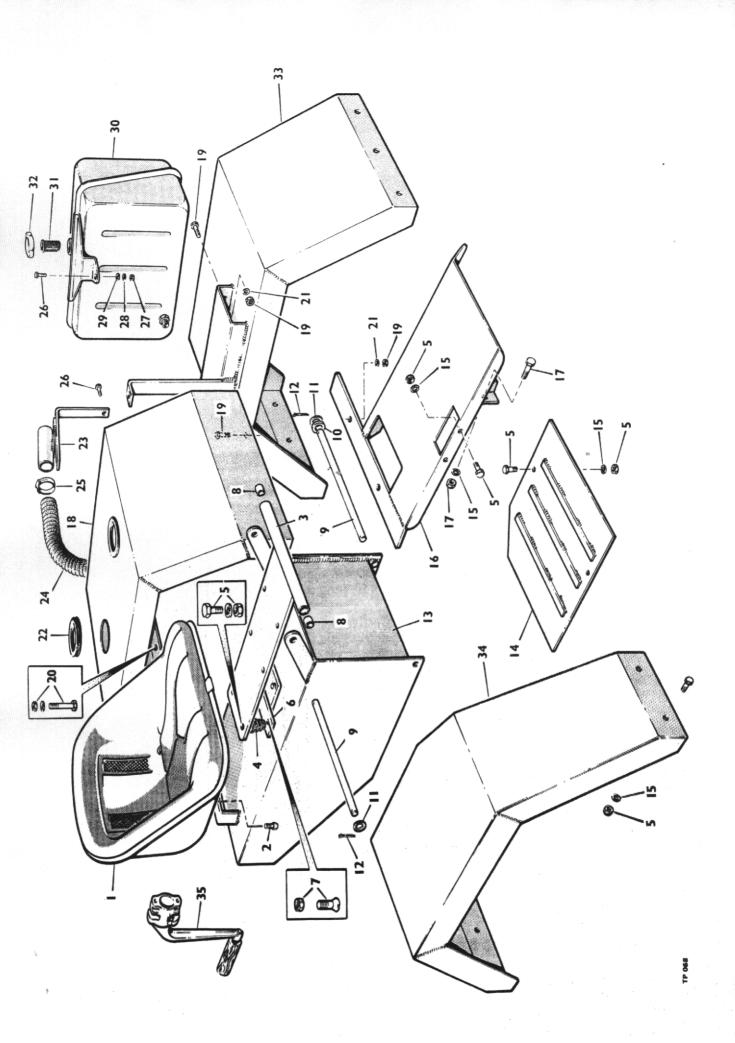
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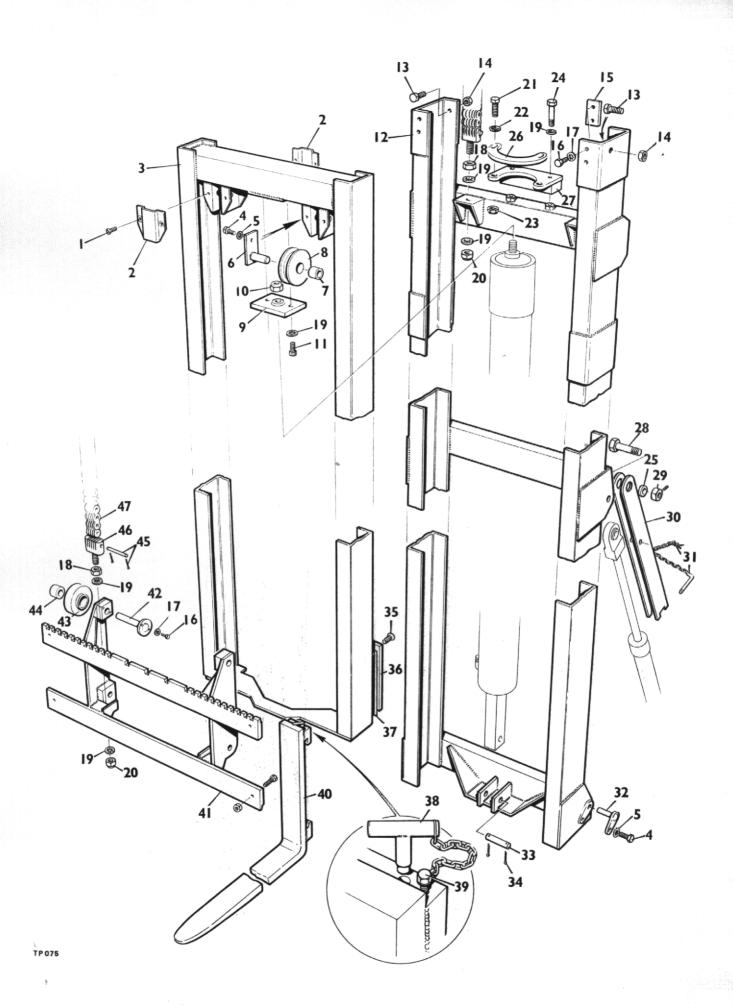
CHASSIS

2 $F4-45-104$ Rear Chassis Rear Frame 3 $4-35-376$ Rear Frame Herror 4 Bolt 3/8'' BSF x 1¼'' long & Nut Shakeproof Washer 3/8'' dia. 1 5 Shakeproof Washer 3/8'' dia. 1 6 4-35-290-13 Tank Prop 1 7 Bolt 3/8'' BSF x 1'' long & Nut 1 8 Flat Washer 3/8'' dia. 1 9 4-35-248 Steering Column 1 10 Bolt 3/8'' BSF x 1''' long & Nut 1 11 4-35-333 Steering Column Brace 1 12 Bolt 3/8'' BSF x 1½'' long & Nut 1 1 13 4-35-325 Hydraulic Tank Support & Pivot 1 14 Bolt 3/8'' BSF x 1½'' long & Nut 1 1 15 WB0808 Bush 1 1 14 -35-29E Centre Pivot Pin Bush. 1 1 17 4-35-29C Centre Pivot Pin Sush. 1 1 19 4-35-29A Tension Pin 5/16'' dia. x 2¼'' long & Nut 1 21 T90 Grease Nippl	tem No.	Part No.	Description	Qty
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6 4-35-290-13 Tank Prop 7 Bolt 3/8" BSF x 1" long & Nut 8 Flat Washer 3/8" dia. 9 4-35-248 Steering Column . 10 Bolt 3/8" BSF x 5" long & Nut 11 4-35-333 Steering Column Brace 12 Bolt 3/8" BSF x 1½" long & Nut 13 4-35-325 Hydraulic Tank Support & Pivot 14 Bolt 3/6" BSF x 1½" long & Nut 15 WB0808 Bush 16 4-35-110A Ram Pivot Bolt 17 4-35-291C Centre Pivot Pin Bush. 18 4-35-2920 Centre Pivot Pin Bush. 19 4-35-292 Centre Pivot Pin Ong 21 T90 Grease Nipple 22 4-35-29A Tension Pin 5/16" dia. x 2½" long 23 4-35-10A Convoluted Hose 7" long 24 F4-45-86 Rear End Ballast Weight 25 F4-45-62 / Plate 26 F4-45-82-2 Front Chassis Ballast Weight 28 Bolt 5/8" BSF x 5" long & Nut 29 Flat Washer 12 34			Shakaproof Weeker 2/0// Jin	8
7 Bolt 3/8" BSF x 1" long & Nut 8 Flat Washer 3/8" dia. 9 4-35-248 Steering Column 10 Bolt 3/8" BSF x 5" long & Nut 11 4-35-333 Steering Column Brace 12 Bolt 3/8" BSF x 1%" long & Nut 13 4-35-325 Hydraulic Tank Support & Pivot 14 Bolt 3/8" BSF x 1%" long & Nut 15 WB0808 Bush 16 4-35-110A Ram Pivot Bolt 17 4-35-29B Centre Pivot Pin Bush. 18 4-35-29B Centre Pivot Pin Bush. 19 4-35-29A Tension Pin 5/16" dia. x 2%" long 24 4-35-29A Tension Pin 5/16" dia. x 2%" long 24 4-35-29A Tension Pin 5/16" dia. x 2%" long 24 4-35-29A Tension Pin 5/16" dia. x 2%" long & Nut 25 F4-45-86 Rear End Ballast Weight 26 F4-45-86 Rear End Ballast Weight 27 F4-45-82-2 Front Chassis Ballast Weight 28 Bolt 5/8" BSF x 5" long & Nut End 29 Flat Washer 11 30		4-35-200 12	Tople Drog	10
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94-35-248Steering Column Bolt ½" BSF x 5" long & Nut10Bolt ½" BSF x 5" long & Nut114-35-333Steering Column Brace Bolt 3/8" BSF x 1½" long & Nut134-35-325Hydraulic Tank Support & Pivot14Bolt ½" BSF x 1½" long & Nut15WB0808Bush164-35-110ARam Pivot Bolt174-35-29BCentre Pivot Pin Bush.184-35-29CCentre Pivot Pin Bush.194-35-29CCentre Pivot Pin204-35-29ATension Pin 5/16" dia. x 2½" long21T90Grease Nipple224-35-29ATension Pin 5/16" dia. x 2½" long234-35-10AConvoluted Hose 7" long24F4-45-86Rear End Ballast Weight25F4-45-106Ballast Weight Bolt 1" BSF x 9 3/8" long & Nut26F4-45-62 /Plate27F4-45-82-2Front Chassis Ballast Weight28Bolt 5/8" BSF x 5" long & Nut29Flat Washer21Bolt 5/8" BSF x 2%' long & Nut224-35-34423A-35-34224Axle Carrier Bearing344-35-35235Bolt 7/8" BSF x 4" long & Nut36Spring Washer 7/8" dia.37E224537Kriculating Frame384-35-346395S 11184-45-82-139SS 111841F4-45-82-130F5F x 8%'' long & Nut344-35-28B <td></td> <td>4 05 040</td> <td>Flat Washer 3/8" dia.</td> <td>2</td>		4 05 040	Flat Washer 3/8" dia.	2
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17 $4-35-110B$ Nut.18 $4-35-29B$ Centre Pivot Pin Bush.19 $4-35-29C$ Centre Pivot Thrush Washer20 $4-35-29$ Centre Pivot Pin21T90Grease Nipple22 $4-35-29A$ Tension Pin 5/16" dia. x 2%" long23 $4-35-10A$ Convoluted Hose 7" long24F4-45-86Rear End Ballast Weight25F4-45-106Ballast Weight Bolt 1" BSF x 9 3/8" long & Nut26F4-45-62 /Plate27F4-45-82-2Front Chassis Ballast Weight28Bolt 5/8" BSF x 5" long & Nut29Flat Washer30 $4-35-344$ Axle Bearing Carrier31Bolt ½" BSF x 2¼" long & Nut32 $4-35-342$ 34 $4-35-352$ 35Articulating Frame36Spring Washer 7/8" dia.37E224531Articulating Frame Pivot Bush38 $4-35-28B$ 4-35-28BExhaust Socket 1½" BSP40 $4-35-228$ 41F4-45-6442Bolt 5/8" BSF x 8½" long & Nut44F4-45-6444F4-45-6444F4-45-6444F4-45-6444F4-45-10744F4-45-10744	16	4-35-110A	Ram Pivot Bolt	4
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31Bolt $\frac{1}{2}$ " BSF x 2 $\frac{1}{2}$ " long & Nut324-35-145Tab Washer334-35-342Axle Carrier Bearing344-35-352Articulating Frame35Bolt 7/8" BSF x 4" long & Nut36Spring Washer 7/8" dia.37E2245Articulating Frame Pivot Bush384-35-346Rear Differential Guard395S 111BExhaust Socket 1 $\frac{1}{2}$ " BSP404-35-28BExhaust Barrel Nipple 1 $\frac{1}{2}$ " BSP41F4-45-82-1Rear Chassis Ballast Weight42Bolt 5/8" BSF x 8 $\frac{1}{2}$ " long & Nut43F4-45-64Safety Frame44F4-45-107Hydraulic Pipe Support	30	4-35-344	Axle Bearing Carrier	1
32 $4-35-145$ Tab Washer 33 $4-35-342$ Axle Carrier Bearing 34 $4-35-352$ Articulating Frame 35 Bolt 7/8" BSF x 4" long & Nut 36 Spring Washer 7/8" dia. 37 E2245Articulating Frame Pivot Bush 38 $4-35-346$ Rear Differential Guard 39 5S 111BExhaust Socket 1½" BSP 40 $4-35-28B$ Exhaust Barrel Nipple 1½" BSP 41 F4-45-82-1Rear Chassis Ballast Weight 42 Bolt 5/8" BSF x 8½" long & Nut 43 F4-45-64Safety Frame 44 F4-45-107Hydraulic Pipe Support	31		Bolt ½" BSF x 2¼" long & Nut	6
33 $4-35-342$ Axle Carrier Bearing34 $4-35-352$ Articulating Frame35Bolt 7/8" BSF x 4" long & Nut36Spring Washer 7/8" dia.37E2245Articulating Frame Pivot Bush38 $4-35-346$ Rear Differential Guard395S 111BExhaust Socket 1½" BSP40 $4-35-28B$ Exhaust Barrel Nipple 1½" BSP41F4-45-82-1Rear Chassis Ballast Weight42Bolt 5/8" BSF x 8½" long & Nut43F4-45-64Safety Frame44F4-45-107Hydraulic Pipe Support	32	4-35-145	Tab Washer	6
34 $4-35-352$ Articulating Frame 35 Bolt 7/8" BSF x 4" long & Nut 36 Spring Washer 7/8" dia. 37 E2245Articulating Frame Pivot Bush 38 $4-35-346$ Rear Differential Guard 39 5S 111BExhaust Socket 1½" BSP 40 $4-35-28B$ Exhaust Barrel Nipple 1½" BSP 41 F4-45-82-1Rear Chassis Ballast Weight 42 Bolt 5/8" BSF x 8½" long & Nut 43 F4-45-64Safety Frame 44 F4-45-107Hydraulic Pipe Support	33	4-35-342	Axle Carrier Rearing	1
35Bolt 7/8" BSF x 4" long & Nut 36 Spring Washer 7/8" dia. 37 E2245Articulating Frame Pivot Bush 38 $4-35-346$ Rear Differential Guard 39 5S 111BExhaust Socket 1½" BSP 40 $4-35-28B$ Exhaust Barrel Nipple 1½" BSP 41 F4-45-82-1Rear Chassis Ballast Weight 42 Bolt 5/8" BSF x 8½" long & Nut 43 F4-45-64Safety Frame 44 F4-45-107Hydraulic Pipe Support	34	4-35-352	Articulating Frame	1
36Spring Washer 7/8" dia. 37 E2245Articulating Frame Pivot Bush 38 $4-35-346$ Rear Differential Guard 39 5S 111BExhaust Socket 1½" BSP 40 $4-35-28B$ Exhaust Barrel Nipple 1½" BSP 41 F4-45-82-1Rear Chassis Ballast Weight 42 Bolt 5/8" BSF x 8½" long & Nut 43 F4-45-64Safety Frame 44 F4-45-107Hydraulic Pipe Support			Bolt 7/8" BSE x 4" long & Nut	1
37E2245Articulating Frame Pivot Bush384-35-346Rear Differential Guard395S 111BExhaust Socket 1½" BSP404-35-28BExhaust Barrel Nipple 1½" BSP41F4-45-82-1Rear Chassis Ballast Weight42Bolt 5/8" BSF x 8½" long & Nut43F4-45-64Safety Frame44F4-45-107Hydraulic Pipe Support			Spring Washer 7/9" dia	1
38 $4-35-346$ Rear Differential Guard 39 $5S$ 111BExhaust Socket 1½" BSP 40 $4-35-28B$ Exhaust Barrel Nipple 1½" BSP 41 $F4-45-82-1$ Rear Chassis Ballast Weight 42 Bolt 5/8" BSF x 8½" long & Nut 43 $F4-45-64$ Safety Frame 44 $F4-45-107$ Hydraulic Pipe Support		F2245	Articulating Frame Bivet Bush	1
39 5S 111B Exhaust Socket 1½" BSP 40 4-35-28B Exhaust Barrel Nipple 1½" BSP 41 F4-45-82-1 Rear Chassis Ballast Weight 42 Bolt 5/8" BSF x 8½" long & Nut 43 F4-45-64 Safety Frame 44 F4-45-107 Hydraulic Pipe Support			Pror Differential Cound	1
404-35-28BExhaust Barrel Nipple 1½" BSP41F4-45-82-1Rear Chassis Ballast Weight42Bolt 5/8" BSF x 8½" long & Nut43F4-45-64Safety Frame44F4-45-107Hydraulic Pipe Support			Freder Differential Guard	1
41 F4-45-82-1 Rear Chassis Ballast Weight 2 42 Bolt 5/8" BSF x 8½" long & Nut 2 43 F4-45-64 Safety Frame 44 F4-45-107 Hydraulic Pipe Support			Exhaust Socket 1/2" BSP	1
42 Bolt 5/8" BSF x 8½" long & Nut 43 F4-45-64 44 F4-45-107 Hydraulic Pipe Support			Exnaust Barrel Nipple 1½" BSP	1
43F4-45-64Safety Frame44F4-45-107Hydraulic Pipe Support		r4-45-82-1	Rear Chassis Ballast Weight	2
44 F4–45–107 Hydraulic Pipe Support				4
44 F4–45–107 Hydraulic Pipe Support			Safety Frame	1
45 Bolt ¼" BSF x 1" long & Nut		F4—45—107	Hydraulic Pipe Support	1
	45		Bolt ¼" BSF x 1" long & Nut	2



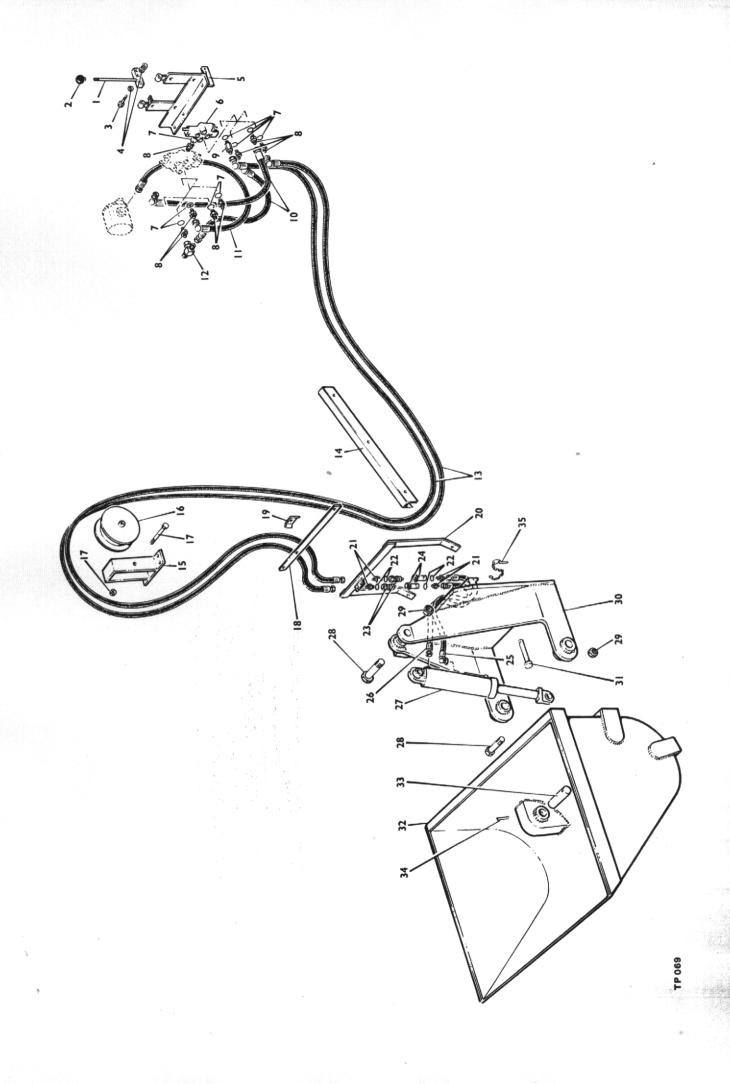
MUDWINGS & COVERS

Item No.	Part No.	Description	Qty.
1	4-35-301	Seat	1
2		Seat Bolts 8 MM x 20 MM long	4
3	4-35-296-12	Seat Frame	1
4	5ST 99	Seat Spring	2
5		Bolt 3/8" BSF x 1" long & Nut	19
6	4-35-331	Seat Spring Plate	1
7		Bolt CSK. 3/8" BSF x 1" long & Nut	2
8	WB0808	Bush	2
9	4-35-307	Seat & Tank Pivot Rod	2
10	C 120-6	Thick Washer ½" dia	A.R.
11		Flat Washer ½" dia	4
12		Split Pin 3/32" dia. x 1" long	4
13	4	Hydraulic Tank (See Page 51)	1
14	4-35-315	Footplate	1
15		Shakeproof Washer 3/8" dia	21
16	F445112	Gearbox Cover	1
17		Bolt 3/8" BSF x 11/2" long & Nut	2
18	4	Engine Cover	1
19		Bolt 5/16" BSF x 1" long & Nut	4
20		Bolt 5/16" BSF x 2½" long & Nut	2
21		Shakeproof Washer 5/16" dia	6
22	4-35-375	Grommet	2
23	4-35-241	Air Cleaner Mounting Bracket	1
24	4-35-242	Air Cleaner Hose 13" long	1
25	2A	Hose Clip	2
26		Bolt ¼" BSF x ¾" long	3
27		Nut ¼" BSF	1
28		Shakeproof Washer ¼" dia	1
29		Flat Washer ¼" dia	1
30	BAE 7E	Fuel Tank	1
31	JE 13	Strainer	1
32	CE 12	Cap	1
33	4-35-387	Left Hand Mudwing Assembly	1
34	4-35-300	Right Hand Mudwing	1
35	C 188	Starting Handle	1



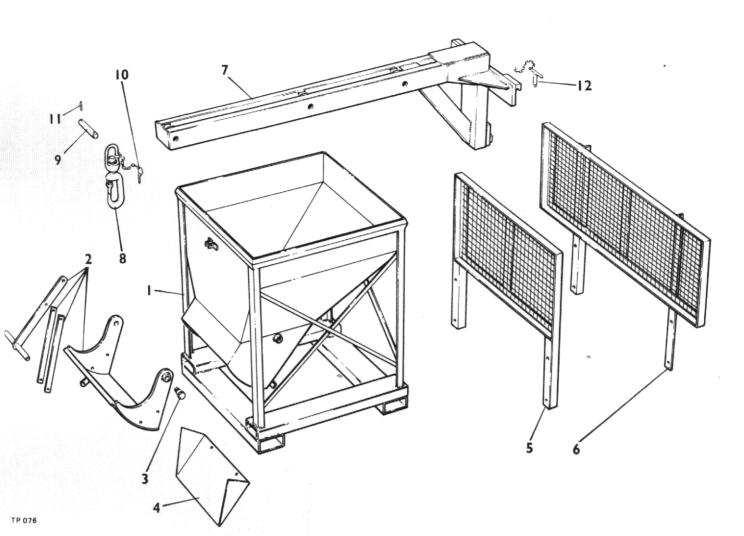
MAST AND FORK ASSEMBLY

Item No.	Part No.	Description	Qty.
1	25-CSSC-038	Setscrew ¼" UNC x 3/8" long csk. head	8
2	D280-324-1	Chain Guard	4
3	B289-10-A	Inner Frame Assembly (18' Fork Lift only)	1
	286-10	Inner Frame Assembly (13' Fork Lift only)	1
	B285-20	Inner Frame Assembly (10'6" Fork Lift only)	1
4	38-FSH-062	Setscrew 3/8" UNF x 5/8" long	4
5	38–WSP	3/8" Shakeproof Washer	4
6	E280-334	Pulley Pin Assembly	2
U	E280-444-1	Chain Pulley Assembly (comprising items 7 & 8)	1
7	E280-1074	Bush	2
	E280-445		
8		Chain Pulley	2
9	E280-355	Keyte Bearing Assembly	1
10	62-BFNH(P)	Self-locking Nut 5/8" BSF	1
11	50-FSCS-150	Setscrew ½" UNF x 1½" long Socket Hd	2
12	A289–2–A	Outer Frame Assembly (18' Fork Lift only)	1
	A297–2	Outer Frame Assembly (13' Fork Lift only)	1
	B296-2	Outer Frame Assembly (10'6" Fork Lift only)	1
13	E28546	Special Bolt	4
14	50-FNH	Nut ½" UNF	4
15	E285-44	Wear Strip and Block	2
16	31-FSH-100	Setscrew 5/16" UNF x 1" long	12
17	31–WSP	Shakeproof Washer 5/16" dia.	
18	50-BFNH(J)	Locknut ½" BSF	4
19	50–WSP	Shakeproof Washer ½" dia.	
20	50—BFNH(P)		
		Self-locking Nut ½" BSF	
21	38-FSH-150	Setscrew 3/8" UNF x 1½" long	
22	38–WF	Flat Washer 3/8" dia.	
23	38-FNH(P)	Self-locking Nut 3/8" UNF	
24	50-FBH-300	Bolt ½" UNF x 3" long	
25	F4-45-50	Spacer	
26	E289-14	Capping Piece	
27	D289-13	Main Ram Support Lug	
28	F4-45-57	Cylinder Bolt	2
29	4-35-110-B	Cylinder Bolt Nut	2
30	F4-45-56	Tilt Cylinder Stop	2
31	F4-45-72	Pin and Chain Assembly	
32	E400-58	Pin	
33	E20-70	Pin	1
34	19-PC-150	Split Pin 3/16" x 1½" long	
35	31-FSSCS-075	Screw 5/16" UNF x ¾" long csk. hd. skt	
36	D285–19	Bottom Wear Strip	
37	D285-37	Shim	
38	E288-15	Peg and Chain Assembly	
39	38–FSH–087	Setscrew 3/8" UNF x 7/8" long	
	B288-48		
40		Fork Arms 48" long	
41	B288-1-1	Mounting Frame Assembly	
42	E280-351	Roller Pin Assembly	
	E285-40	Roller Assembly (comprising items 43 & 44)	
43	E285-41	Roller	
44	E280-920	Bush	
45	280–443	Pin End Link (with 2 Split Pins)	4
46	280-442	Tensioner	
47	280-1078	Chain (18' Fork Lift only)	
	280-1075	Chain (13' Fork Lift only)	2
	280-1052	Chain (10'6" Fork Lift only)	
	E280-1077	Chain Assembly (18' Fork Lift only)	
		comprising items 18, 19, 20, 45, 46 and 47	
	E280-1075	Chain Assembly (13' Fork Lift only)	
		comprising items 18, 19, 20, 45, 46 and 47	
	E280-1051	Chain Assembly (10'6'' Fork Lift only)	
		comprising items 18, 19, 20, 45, 46 and 47	



HYDRAULIC TIP BUCKET, PIPES AND FITTINGS

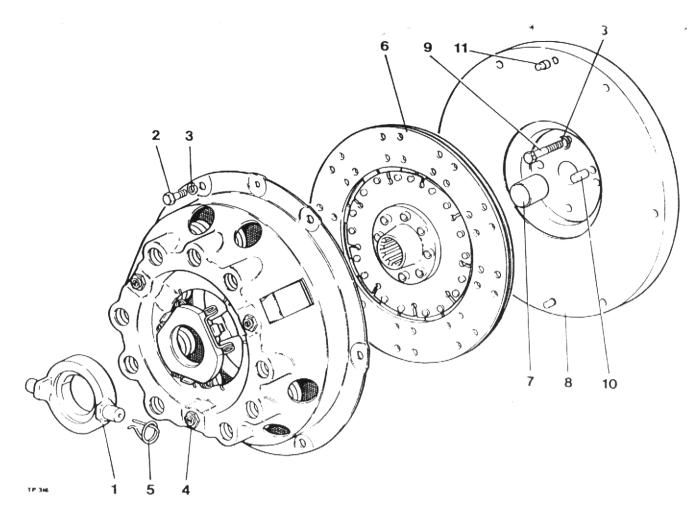
Item No.	Part No.	Description	Qty.
1 2 3	F4—45—58 2ST—88	Hydraulic Valve Lever Knob Bolt 3/8" BSF x 2¼" long & Nut	1 1 1
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	F4-45-91 300-024-GAA S9698 4-60-159 4-60-115 2ST72C 4-35-365 F4-45-99 F4-45-98 F4-45-92 F4-45-88 F4-45-89 F4-45-89 F4-45-95 F4-45-95 F4-45-114	Flat Washer 3/8" dia. Hydraulic Valve Lever Bracket . Hydraulic Valve (Bucket Control) (see page 63) . 'O' Ring 7/8" . Adaptor 7/8" UNF x 3/8" BSP . Adaptor . Hose 1'-1¼" long ST-90 (Valve to Valve & Valve to T Hose 1'-8" long ST-90 (Pump to Valve) . Swivel Nut Tee . Hose 27'-8½" long ST-90 (Valve to Snap Coupling) . Hydraulic Hose Shroud . Hose Pulley Mounting Bracket . Hose Pulley Wheel . Bolt ½" BSF x 4¾" long & Nut . Hose Clamp .	2 1 10 8 1 2 1 2 1 1 1 1 1 1 1
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	F4-45-94 T14J T14I C23544 C23543 4-35-108H 3SHD-65 TD3894 4-60-104 4-60-172 F4-45-84 F4-45-93 F4-45-93 F4-45-96 M9B	Hose Support Bracket Adaptor 3/8" BSP x 3/8" BSP Seal 3/8" BSP Snap Coupling Probe 3/8" BSP Snap Coupling Carrier 3/8" BSP Hose 2'-9½" ST-90 (Snap Coupling to Ram Stack) Hose 2'-7½" long ST-ST (Snap Coupling to Ram Base) Bucket Ram (As standard steering ram – see page 60) Ram Bolt Ram Bolt Ram Bolt Nut Bucket Frame Bucket Frame Retaining Pin Bucket Pivot Pin Tension Pin 5/16" dia x 2¼" long Lynch Pin and Chain	4 2 1 1 2 2 1 1 2 2 1 1 2 2



BRICKGUARDS JIB AND CONCRETE SKIP

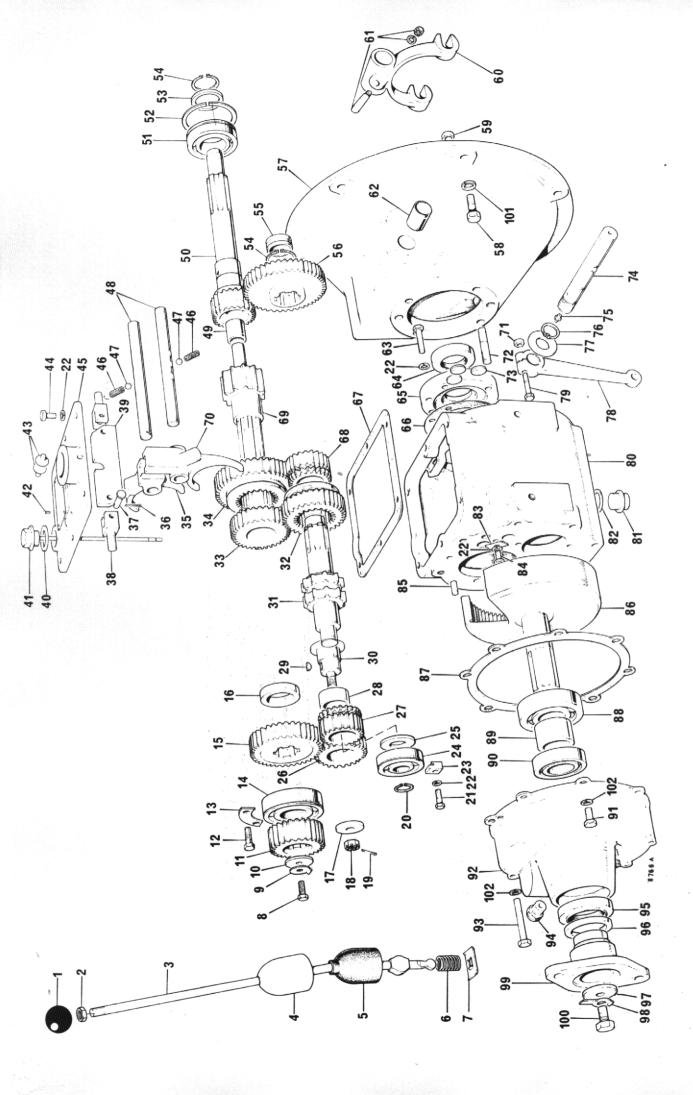
Item No	. Part No.	Description	Qty.
1	F4-45-78	Concrete Pouring Skip	1
2	F4-45-79	Concrete Pouring Skip Door & Handle Assembly	1
3	S104	Door Pivot Bolt	2
4	F4-45-80	Skip Chute	1
5	F4-45-81	Brick Guard 3'-6"	1
6	F4-45-85	Brick Guard 5'-6"	1
7	F44575	Crane Jib	1
8	775K	Swivel "Liverpool" Safety Hook	1
9	F4-45-76	Swivel Hook Pin	1
10	M9B	Pin and Chain	1
, 11		Tension Pin 3/8" dia	1
12	E288-15	Peg and Chain Assembly	1

FLYWHEEL & CLUTCH



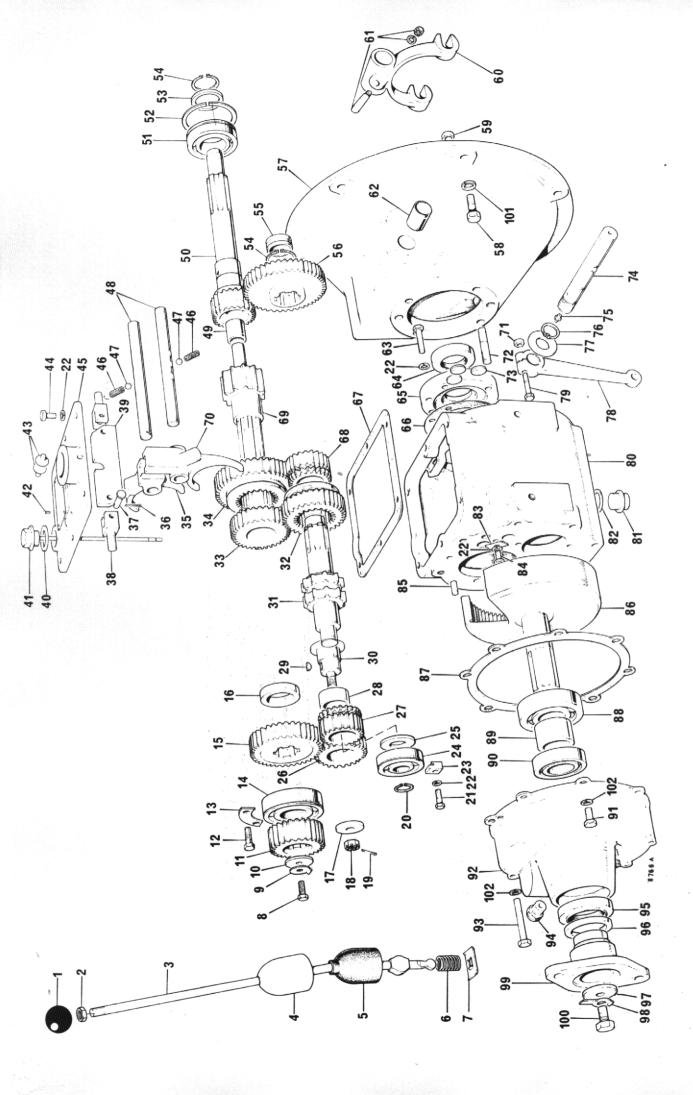
Item No.	Part No.	Description	Qty.
1	10579A01	Clutch Release Bearing	1
2	28S02D	Screw Set	6
3	41S04	Washer Spring	10
4	10597A02	Cover Assembly 9"	1
5	10579A0101	Retainer Spring	2
6	10598A03	Drive Plate 9"	1
7	10580A0101	Bush	1
8	10580A01	Flywheel Assembly 9"	1
0	10000	(comprises of items 7, 8, & 11)	
9	1S02C	Bolt, Petter PH Engine	4
0.4	00000	(drill for locking wire)	
9A	6S02B	Bolt, Lister Engine	4
40	0001	(drill for locking wire)	
10	C321	Dowel	1
11	10580A0102	Dowel	2
	10948 A03	Clutch Kit 9"	1
		(comprises of items 1, 4, 5 & 6)	

It is recommended that instead of drilling the head of the bolts (item 9/9A) for locking wire that one of each of tabwashers part no's 10531A02 and 10531A03 are used to prevent the bolts working loose.



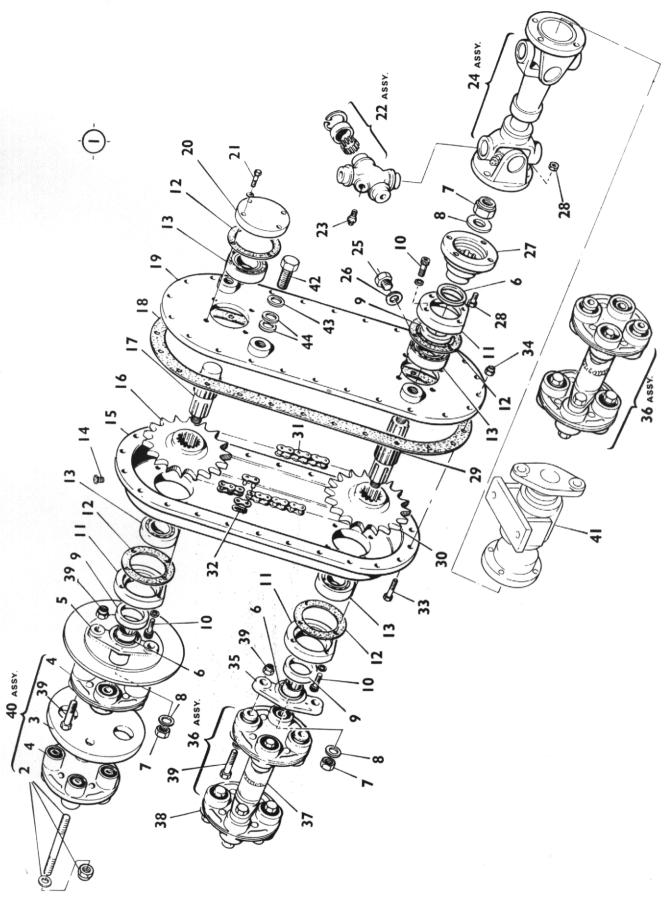
GEARBOX 40M-42-583 INV. 676

Item No.	Part No.	Description	Qty.
1	40M/133	Knob, Gear Lever	1
2	UN 512	Locknut, Gear Lever	1
3	40M/676	Gear Lever	1
4	40M/377	Cap, Gear Lever	1
5	40M/129	Cover, Gear Lever	1
6	40M/367	Spring, Gear Lever	1
7	40M/245	Retaining Plate, Gear Lever	
8	USF 53	Screw, Mainshaft	
9	40M/179	Lockwasher – Tab	1
10	40M/178	Washer, Reduction Pinion	1
11	40M/125	Reduction Pinion	
12	USF 11	Screw, Bearing Retainer	
13	40M/378	Bearing Retainer, Small	
14	CM/2052	Bearing, Mainshaft Rear	
15	40M/110	Output Gear	
16	40M/128	Spacer, Output Gear	
17	40M/155	Washer, Reverse Pinion Shaft	
18	UN 507	Nut, Reverse Spindle	
19	CP/1004	Split Pin	
20	40M/148	Circlip	
20	USF/31	Screw	
21	W104		
		Spring Washer	
23	40M/299		
24	40M/146	Layshaft Bearing	
25	40M/130	Bearing Spacer	
26	40M/111	Reverse Pinion	
27	40M/114	Reverse Speed Gear	
28	40M/161	Bush, Reverse Pinion	
29	40M/222	Key, Reverse Pinion Shaft	
30	40M/119	Shaft, Reverse Pinion	
31	40M/118	Layshaft	
32	40M/116	2nd Speed Sliding Gear	
33	40M/113	Second Speed Gear	
34	40M/115	1st Speed Gear	
35	40M/502	Selector Fork, 2nd & 3rd	
36	40M/244	Split Pin, Interlock	
37	40M/232	Clevis Pin, Interlock	
38	40M/231	Stud, Interlock	
39	40M/505	Interlock Plate	
40	CP/1068	Seal, Dipstick	
41	40M/153	Dipstick	
42	CP/1003	Drive Screw	
43	40M/254	Pad, Gear Lever	
44	USF 21	Screw, Top Cover	
45	40M/220	Top Cover	
46	CM/2103	Detent Spring	
47	CM/1077	Detent Ball	
48	40M/135	Selector Shaft	
49	40M/513	Bearing, Primary Shaft	. 1
50	40M/117	Primary Shaft	. 1
51	40M/143	Input Bearing	. 1
52	40M/252	Snap Ring	. 1
53	40M/174	Bearing Spacer	
54	CM/2053	Circlip	
55	40M/162	Bush, Layshaft	



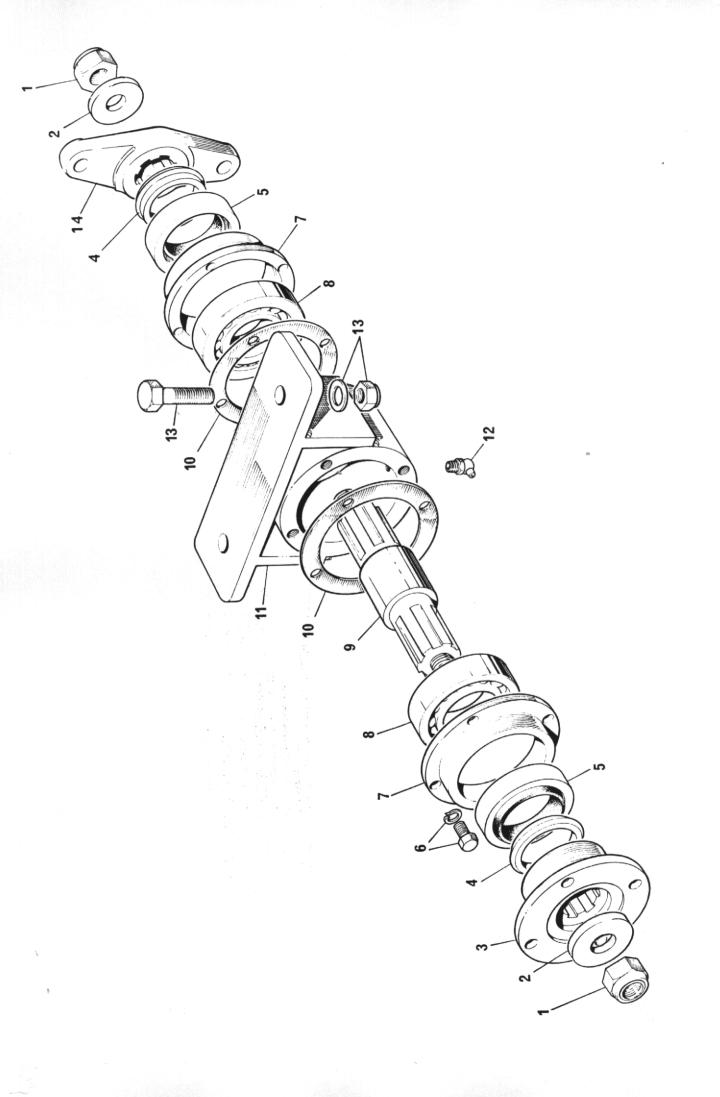
GEARBOX 40M-42-583 INV. 676

Item No.	Part No.	Description	Qty.
56	40M/360	1st Reduction Gear	1
57	40M/392	Clutch Housing	1
58		Bolt, Clutch Housing 3/8" BSF x 1" Long - Petter	6
59	UNL 106	Nut	6
60	CM/2083	Clutch Release Fork	1
61	CM/2084 S/A	Cotter, Nut & Washer S/A	
62	CM/2179	Bush, Cross Shaft	
63	UBF 71	Bolt, Front Cover	
64	40M/150	Oil Seal, Input	
65	40M/126	Front Cover	
66	40M/172	Joint, Front Cover	
67	40M/169	Joint, Top Cover	
68	40M/114	Reverse Speed Gear	
69	40M/515	Mainshaft	
70	40M/501	Selector Fork, 1st & Reverse	
71	UN 501	Nut, Clutch Lever	
72	40M/177	Stud, Clutch Housing	
73	CM/2113	Sealing Disc, Selector Shaft	
74	40M/394	Clutch Cross Shaft	
75	CP/1069	Grease Nipple	
76	CP/1005	Circlip	
77	40M/398	Washer, Cross Shaft	
78	CM/2090	Clutch Release Lever	
79	UBF 91	Bolt, Clutch Lever	
80	40M/101/M	Casing	
81	CP/1002	Drain Plug	
82	CP/1068	Seal, Drain Plug	
83	40M/136	Selector Locking Strip	
84	USF 21	Setscrew	
85	40M/656	Dowel	
86	40M/030	Internal Gear	
87	40M/654	Joint, Reduction Housing	
88	CM/2068	Bearing, Internal Gear Front	
89	40M/138	Spacer	
90	40M/149	Bearing, Internal Gear Rear	
91	USF 32	Hex. Head Screw	4
92	40M/655	Reduction Housing	
92	UBF/142	Hex. Head Bolt	
93 94			
	CM/2106	Breather	
95	40M/167	Oil Seal, Rear	
96	CM/2537	Dust Shield	
97	CM/2123	Washer, Coupling	
98	CM/2050	Lock Washer	
99	40M/583	Coupling	
100	USF 55	Screw, Coupling	1
101		Spring Washer 3/8"	
102		Spring Washer 5/16"	8



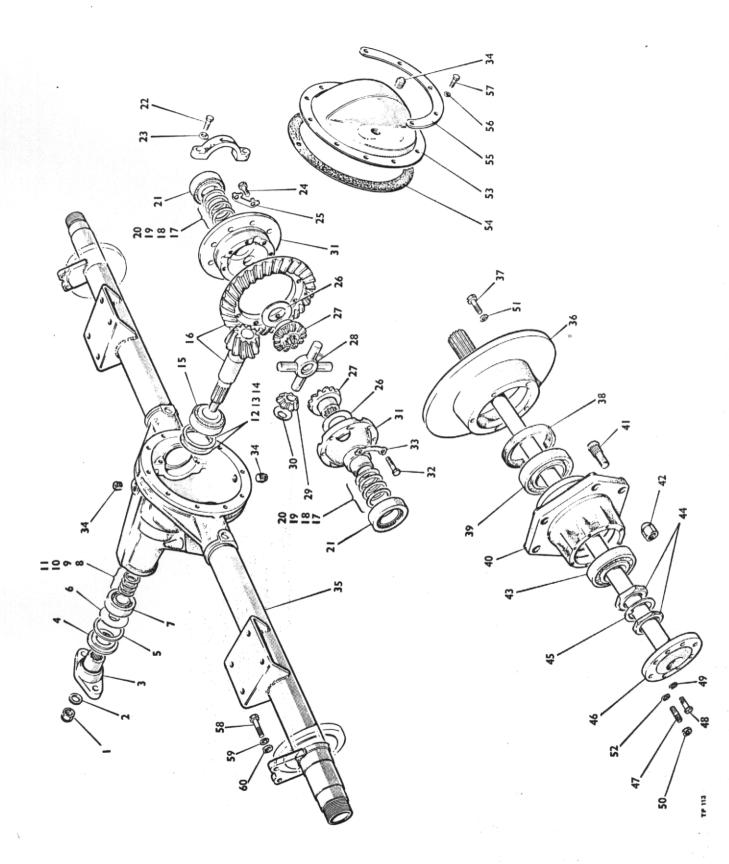
TRANSFER BOX AND PROP SHAFTS

Item No.	Part No.	Description	Qty.
1	4-35-379	Transfer Box Complete (15/19 Teeth)	1
2	4-35-371	Coupling Stud c/w Nuts & Washers	2
3	4-35-368	Coupling Disc	1
4	48408	Basic Coupling	2
5	F4—45—105	Brake Disc 12 5/8" dia	1
6	CM 2537	Dust Shield	3
7	UN 580	Self Locking Nut ¾" UNF	3
8	CP 1264	Thick Washer ¾" dia	3
9	40M-167	Oil Seal	3
10	UFC 416	Cap Screw	12
11	4-35-102	Oil Seal Housing	3
12	CM 2073	Gasket	4
13	CM 2068	Bearing	4
14	CM 2106	Breather	1
15	4-35-96	Main Case	1
16	4-35-380	Chain Wheel (15 Tooth)	1
17	4-60-252	Input Shaft	1
18	4-35-20	Gasket	1
19	4-35-381	Main Case Cover	1
20	CM 2528	End Cover	1
21	UBF 51	End Cover Screws	4
22	K—5—GB—18	Repair Kit	A/R
23	94—GB—2459	Grease Nipple	2
24	1350 YSA	Prop Shaft Assembly	1
25	CP 1189	Level/Filler Plug	1
26	CP 1068	Fibre Washer	1
27	40M 589	Companion Flange	1
28		Bolt 7/16" BSF x 1¼" long & Nut	8
29	4-60-253	Output Shaft	1
30	4-35-17	Chain Wheel (19 Tooth)	1
31	4-35-353	Drive Chain (15/19 Teeth)	1
32	4-35-18A	Chain Connecting Link	2
33	UBF 71	Housing Screw	24
34	UN 501	Nut	24
35	40M 583	Companion Flange	1
36	81141	Prop Shaft Assembly (Complete)	2
37	81142	Prop Shaft	2
38	10203	Coupling c/w Bolts & Nuts	4
39	10203A	Coupling Bolt, Washer & Nut	20
40	4-35-374	Close Coupled Coupling Assembly	1
		(Comprising Items 2,3,4 & 39)	-
41	4-35-316	Trunnion Assembly (See Page 35)	1
42		Bolt ½" BSF x 1¼" long (drilled for Wire Locking)	3
43		Flat Washer ½" dia.	3
44		Flat Washer ½" dia	A/R



TRUNNION ASSEMBLY

Item No.	Part No.	Description	Qty.
	435316	Trunnion Assembly Complete	1
1	UN580	Self Locking Nut ¾" UNF	
2	CP 1264	Thick Washer ¾" UNF	2
3	40M 589	Companion Flange	
4	CM 2537	Dust Shield	
5	40M 167	Oil Seal	
6		Housing Bolt ¼" UNF x ¾" long	
7	40M 622	Oil Seal Housing	
8	CM 2068	Bearing	
9	4-60-251	Shaft	
10	4-35-20A	Gasket	2
11	4-35-143	Housing	1
12	T 90	Grease Nipple	1
13		Mounting Bolt 5/8" BSF x 2" long & Nut	2
14	40M 583	Companion Flange	1

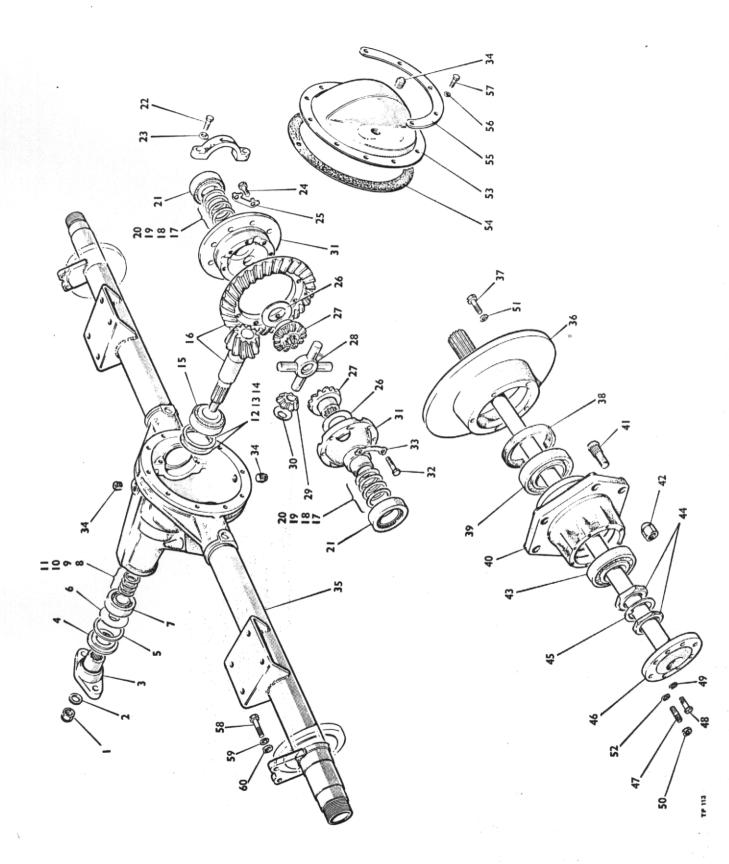


DRIVE AXLE

Description

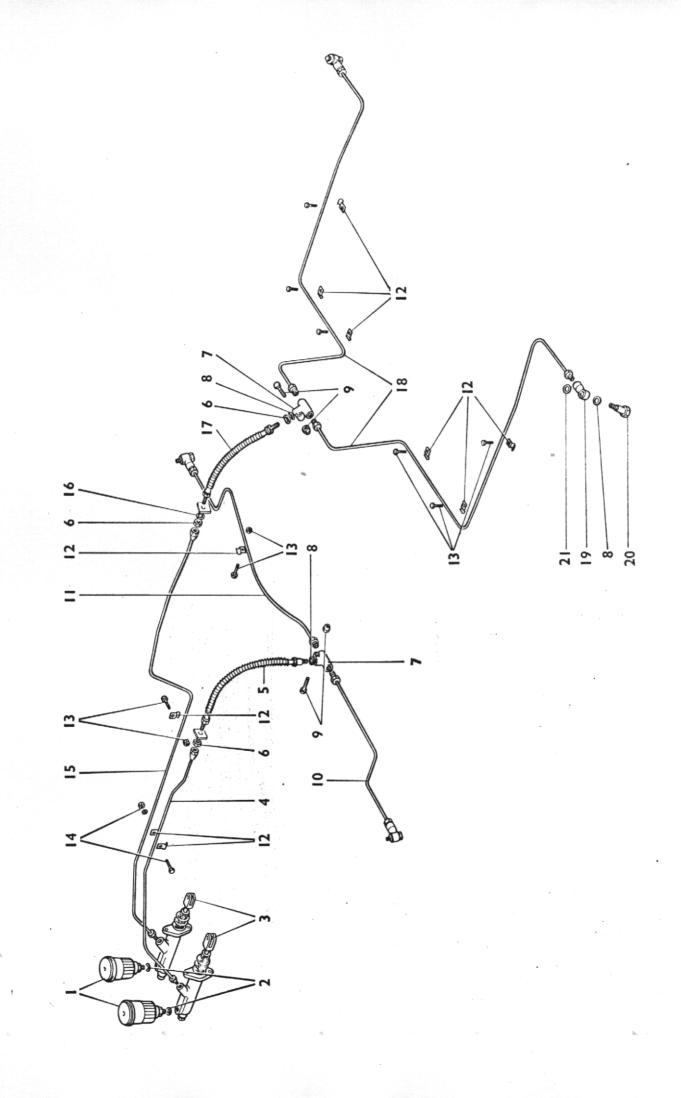
Item No. Part No.

				Description	u
			5HA-001-263D	Drive Axle (2 per M/c) 5.22/1	
			ASK 3406D	Drive Axle (2 per M/c) 5.22/1	
			ASK 3407D	Drive Axle (2 per M/c) 5.22/1	
	1		12–LN–NF9B	Pinion Nut	1
	2		12-W-24	Pinion Nut Washer	1
	3		5HA-102-13	Companion Flange (with integral dust shield)	1
	4		2HA-019	Pinion Oil Seal	1
	5		2HA-020	Pinion Oil Seal Gasket	1
	6		2HA-036	Pinion Oil Seal Slinger	1
	7		5HA-022	Pinion Bearing Outer	1
	8		5HA-039	Pinion Bearing Adjusting Shim Outer .003"	2
	9		5HA-040	Pinion Bearing Adjusting Shim Outer .005"	2
	10		5HA-041	Pinion Bearing Adjusting Shim Outer .010''	2
	11		5HA-042	Pinion Bearing Adjusting Shim Outer .030"	2
	12		5HA-043	Pinion Adjusting Shim Inner .003"	2
	13		5HA-044	Pinion Adjusting Shim Inner .005"	2
	14		5HA-045	Pinion Adjusting Shim Inner010"	2
	15		5HA-023	Pinion Bearing Inner	1
	16		5HA-105-11	Drive Gear & Pinion Assy 5.22/1	1
	17		5HA-046	Differential Bearing Shim .003''	2
	18		5HA-047	Differential Bearing Shim .005''	2
	19		5HA-048	Differential Bearing Shim .010''	2
	20		5HA-049	Differential Bearing Shim .030"	2
	21		5HA-024-1	Differential Bearing	2
	22		8B NC 36	Differential Bearing Cap Bolt	4
	23		8LW-115	Bearing Cap Lockwasher	4
	24		5HA-075-2	Drive Gear Bolt	12
	25		5HA-074-1	Drive Gear Lockstrap	6
	26		5HA-038-1	Differential Side Gear Thrust Washer	2
	27		5HA-007-3	Differential Side Gear	2
	28		5HA-012-2	Differential Pinion Mate Cross Shaft	1
	29		5HA-008-3	Differential Pinion Mate	4
	30		5HA-037-1	Differential Pinion Mate Cross Washer	4
	31		5HA-006-1	Differential Case Assy	1
	32 33		5B-NC28A	Differential Case Screw	8
	33 34		5HA-097	Differential Lock Strap	4
	35		HA-059	Filler & Drain Plug	3
	36		5HA-101-115	Service Carrier and Tube Assembly	1
	37		10HA-136 6BNF21	Brake Disc	2
	38		5HA-032-6	Brake Disc Bolt	10
	39		8HA-025-5	Hub Oil Seal (inner)	2
	40			Wheel Bearing (inner)	2
	HU		10HA-028-24	Wheel Hub Assembly (-263D axle only)	2
			ASK 3406-1	Wheel Hub Assembly (-3406D & -3407D axles only)	2
	41		10HA-055-5	Wheel Stud	12
	42		T-23	Wheet Nut	12
	43		8HA-025-6	Wheel Bearing (outer)	2
	44	*	32N-NF4	Hub Bearing Locknut	4
	45		8HA-091-2	Hub Bearing Lockwasher	2
	46		5HA-005-75	Axle Shaft (–263D axle only)	2
			ASK 3406-2	Axle Shaft (reamed for stud clearance) (3406D & 3407D	
				only)	2
1	47		DM 138	Stud 10mm x 7/16" BSF	8
	48		7BNC-20A	Axle shaft flange bolt (-263D axle only)	
			M10B-C35/20A	Axle shaft flange bolt (-3406D & 3407D axles only)	



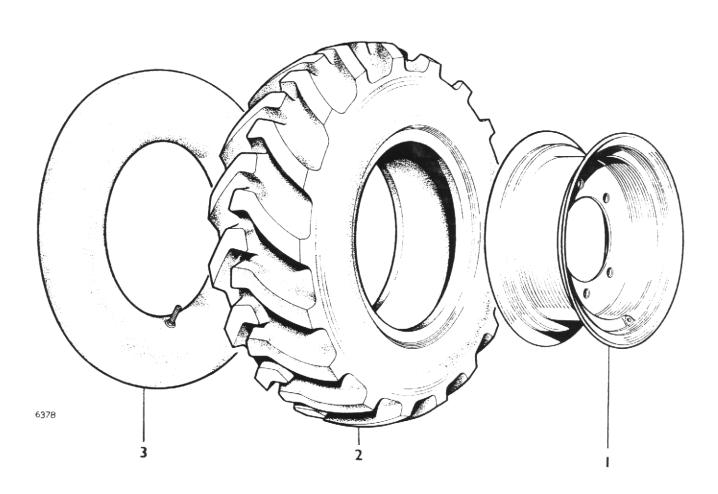
DRIVE AXLE

Item No.	Part No.	Description	Qty.
49 50 51 52 53 54 55 56	M10LW-15.9 6LW105 5HA-064-1 5HA-026 4-35-235 6LW-105	Spring washer Nut 7/16" BSF (only used when item 47 is fitted) Spring washer Spring washer 7/16" dia Gear Carrier Cover Assembly Gear Carrier Cover Gasket Gear Carrier Cover Support Lockwasher	8 10 8 1 1
57	6B-NC-10	Bolt	10
58	7B-NF-22B	Caliper mounting bolt	4
59	7W14	Caliper mounting washer	4
60	7W16	Caliper packing washer	



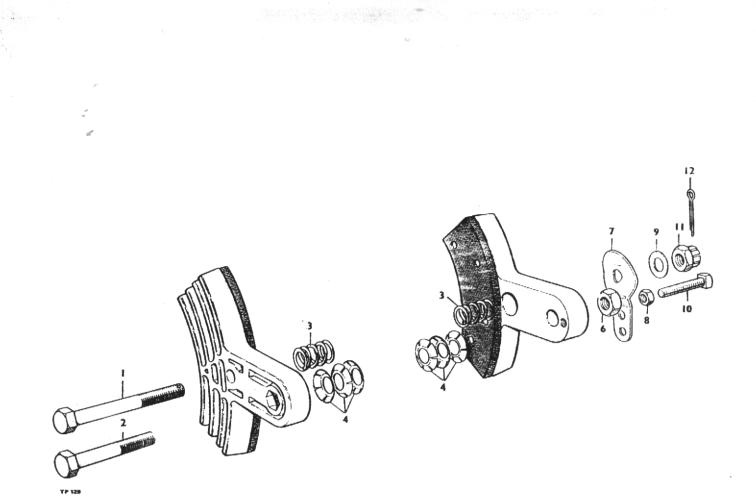
BRAKE PIPES AND CONNECTIONS

Item No. Part No. Description	Qty.
1 64046158 Header Tank	2
2 4-35-378 Copper Washer %" OD x 7/16" ID x 1/8" Thick	2
3 • 64067970 Master Cylinder (See page 44)	2
4 DM 79–4 Pipe 33". M/C to Rear Flex	1
5 64047903 Flex Hose 11"	1
6 64100050 Thin Nut 3/8" UNF	3
7 64474341 Tee Piece	2
8 378700 Washer	6
9 Bolt ¼" BSF x 1½" long & Nut	2
10 DM 78–5 Pipe 18½" Tee to RH Rear	1
11 DM 78–9 Pipe 31" Tee to LH Rear Comparison	1
12 4S 133 'P' Clip	10
13 Bolt ¼" BSF x ¾" long	8
14 Bolt ¼" BSF x 1" long	1
15 DM 79–5 Pipe 62" M/C to Front Flex	1
16 64140087 Shakeproof Washer 3/8"	1
17 64046115 Flex Hose 9½"	1
18 DM 78-4 Pipe 53" Tee to Front	2
19 64474287 Banjo	4
20 376102W Banjo Bolt	4
21 378703 Washer	4



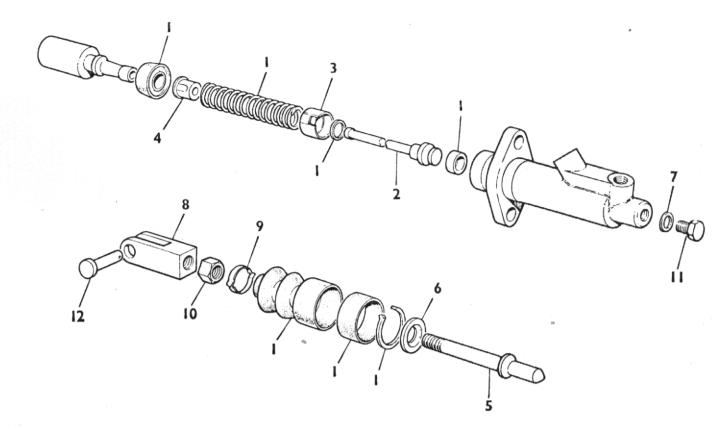
WHEELS AND TYRES

Part No.	Description	Qty.
24S08	R/H Wheel Assembly	2
24S07	L/H Wheel Assembly	2
30183A02	Wheel rim 9 x 18	4
20502	Tyre 10.5 x 18-8 ply	4
23S04	Tube 10.05 x 18	4
	24S08 24S07 30183A02 20S02	24S08R/H Wheel Assembly24S07L/H Wheel Assembly30183A02Wheel rim 9 x 1820S02Tyre 10.5 x 18-8 ply



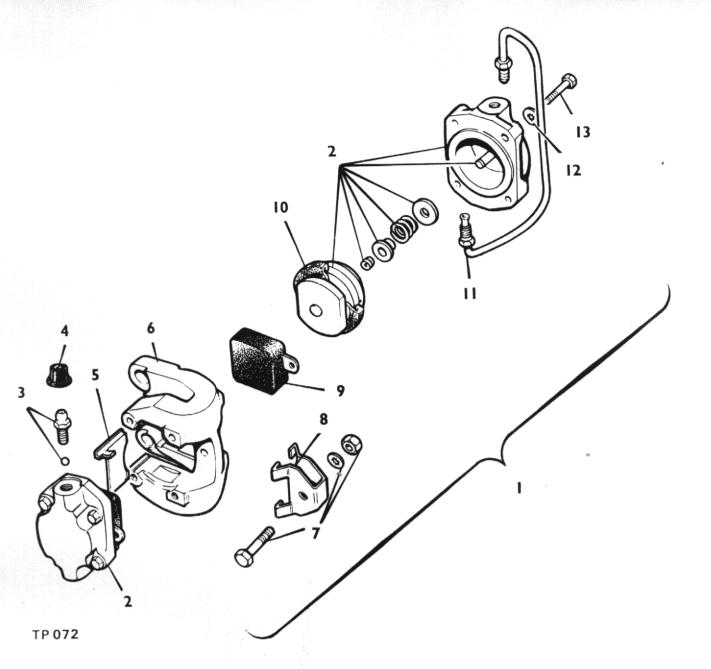
CALIPER, parking brake

Item	Part no	Description	Qty
1A	10578A01	CALIPER, one pair, assembly	1
1	28S02T	SCREW	1
2	28S02P	SCREW	י ד
3	10578A0101	SPRING, centring	2
4	10578A0102	WASHER, tension	6
6	9S02	NUT	1
7	10578A0104	CAM	1
8	230S01	NUT, locking	1
9	10578A0105	WASHER	1
10	66S01H	SCREW, set	1
11	227S02	NUT, castle	1
12	44S01C	PIN, cotter	1
13	1072A4	PAD c/w rivets	1
		LAD CIM INALS	2



BRAKE MASTER CYLINDER ASSEMBLY

Item No.	Part No.	Description	Qty.
	64067970	Master Cylinder (Complete) 2 per M/C	
1	SP 1996/2	Seal Kit	1
2	378641	Valve Stem	1
3	318001	Valve Spacer	1
4	64673391	Valve Spring Retainer	1.
5	351257W	Push Rod	
6	378242	Retaining Washer	1
7	378700	Washer	
8	64671286	Clevis	1
9	378312	Dust Cover Retainer	
10	6410052	Locknut	1
11	64110348	Plug	1
12	C174Y	Clevis Pin	1



CALIPER ASSEMBLY

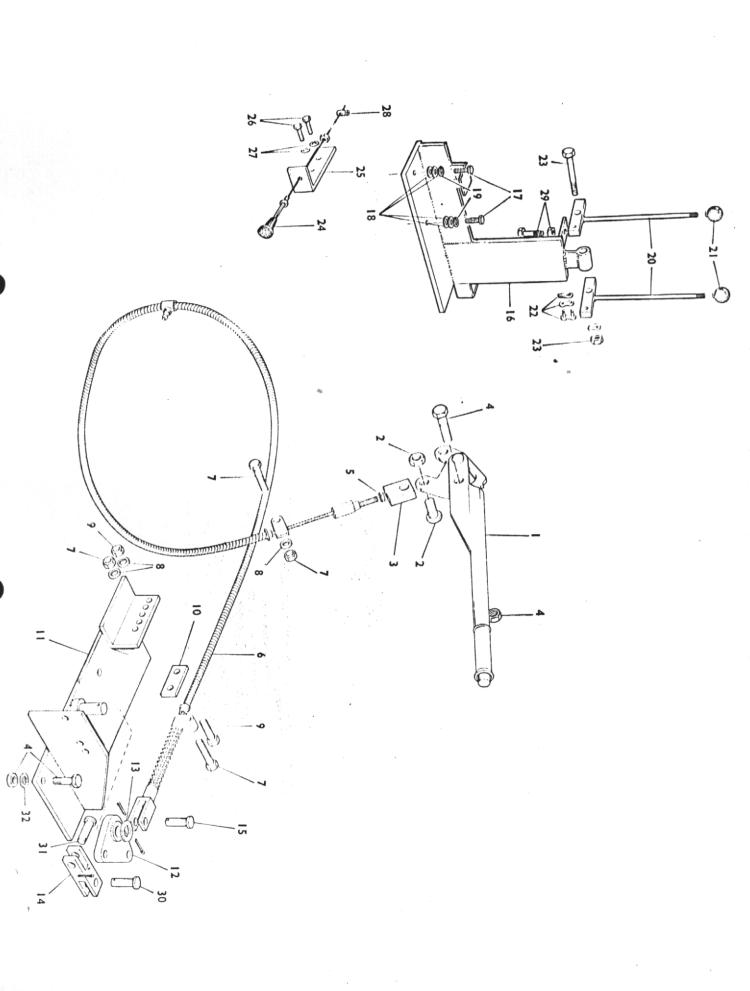
Item No. Part No.

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Description

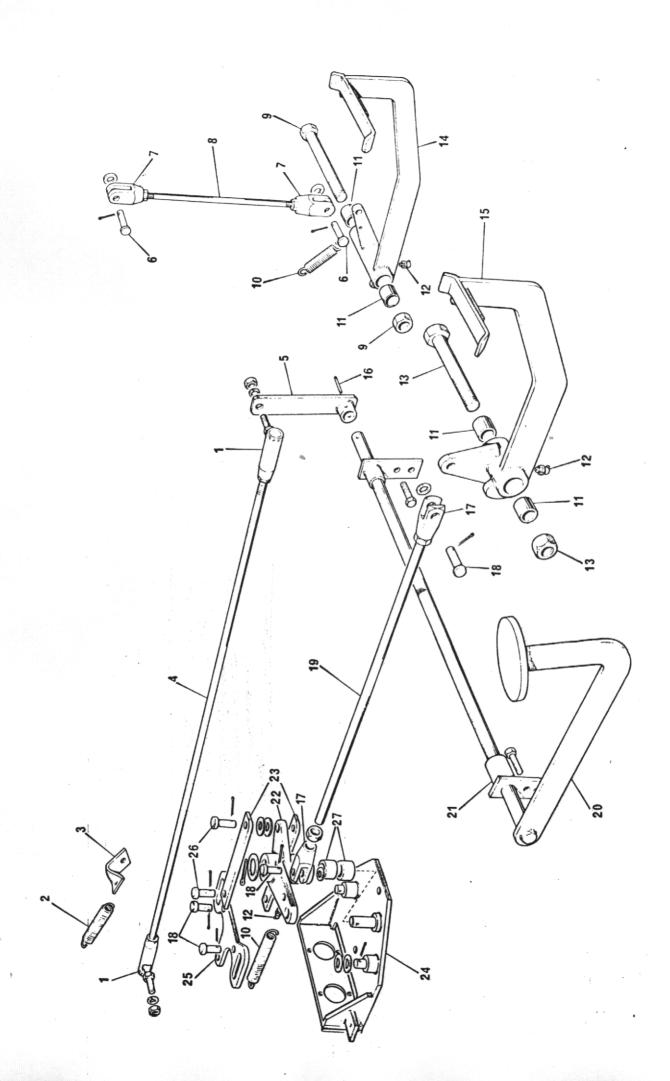
Qty.

1	F4-45-125		Caliper Assembly complete 1	
2	VBO 5505	•	Piston and Cylinder Assembly 2	1
3	VBO 8378		Bleed Screw and Ball Assembly 1	
4	CBO 849		Bleedscrew Dust Cover 1	
5	VBO 5133		Support Plate 2	2
6	CB 60253		Caliper Body 1	
7	VBO 8491		Keep Plate Bolt, Washer and Nut 1	
8	VBO 5123		Keep Plate 1	
9	VBO 8360Y		Friction Pad complete)
10	VBO 8210A		Seal Kit)
11	VBO 3926		Bridge Pipe Assembly 1	
12	VBO 6101L		Shakeproof Washer 8	;
13	VBO 5100		Cylinder Retaining Bolt	1
			· · · · · · · · · · · · · · · · · · ·	



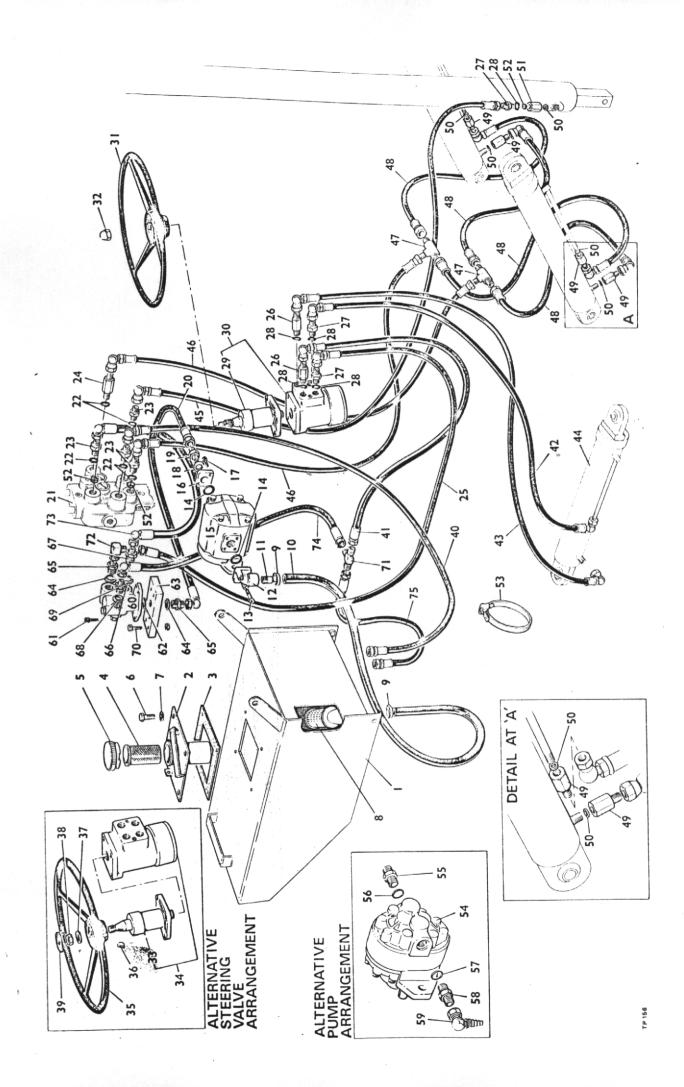
HANDBRAKE, VALVE CONTROL LEVERS AND ENGINE STOP CONTROL

Item No.	Part No.	Description	Qty.
1	303	Handbrake Lever	1 2
2		Mushroom Head Bolt 3/8" BSF x 1" long & Nut	
3	L309	Block	1
4		Bolt 3/8" BSF x 1½" long & Nut	4.
5		Nut 3/8" BSF	1
6	4-35-111	Handbrake Cable	1
7		Bolt 5/16" BSF x 1 ³ / ₄ " long & Nut	2.
8		Shakeproof Washer 5/16" dia	3
9		Bolt 5/16" BSF x 1" long & Nut	1
10	4-35-349	Disc Brake Adjusting Plate	1
11	4-35-382	Transmission Brake Mounting Bracket	1
12	4-35-256	Bell Crank	1
13		Flat Washer ½" dia	1
14	4-35-253	Double Clevis	1
15	C174X	Clevis Pin	1
16	4-35-411	Hydraulic Valve Mounting Bracket	1
17	•	Bolt 5/16" BSF x 1" long	2
18		Flat Washer 5/16" dia	4
19		Shakeproof Washer	2
20	F4-45-58	Hydraulic Valve Handle	2
21	2ST-88	Knob	2
22	4-60-178	Connecting Link	2
23		Bolt 3/8" BSF x 3" long, Washers & Nut	1
24	4-35-82	Engine Stop Control Cable Assembly	1
25	4-35-373	Engine Stop Control Mounting Bracket	1
26		Bolt ¼" BSF x 5/8" long	
27		Shakeproof washer ¼" dia	2
28	4-35-196	Solderless Nipple	1
29		Bolt 3/8" BSF x 2" long & Nut	1
30	C174Y	Clevis Pin	
31	4-35-264	Clevis Pin	1
32		Shakeproof Washer 3/8" dia	4

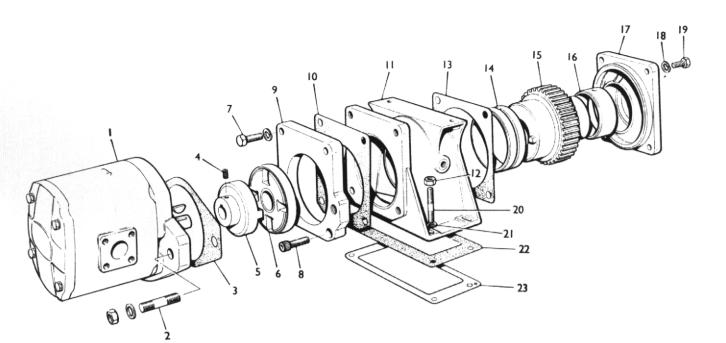


PEDALS & CONTROLS

Item No.	Part No.	Description	Qty.
- 1	C160B	Accelerator Rod Ball End	2
2	C173D	Spring	1
3	C163	Spring Attachment Brkt	
4	4-35-370	Accelerator Rod	
5	F522	Accelerator Lever	1
6	C174X	Pin	2
7	C174A	Clevis	2
8	L306	Clutch Rod 3/8" BSF x 11 3/8" long	1
9		Bolt 5/8" BSF x 8½" long & Nut	1
10	C173B	Spring	2
11	WB1010	Bush	4
12	Т90	Grease Nipple	3
13		Bolt 5/8" BSF x 3½" long & Nut	1
14	F4-45-108	Clutch Pedal	1
15	4-35-125	Footbrake Pedal	1
16	C129A	Tension Pin	
17	C174E	Clevis	2
18	C174Y	Clevis Pin	4
19	4-35-275	Footbrake Rod 5/16" UNF x 16%" long	1
20	4-35-322	Accelerator Pedal	1
21	4-35-151	Accelerator Mounting Brkt.	2
22	4-35-305	Lever	
23	4-60-193	Balance Arm Link	2
24	4-35-287	Brake Cylinder & Balance Arm Brkt.	1
25	4-60-119	Footbrake Balance Arm	
26	C174XL	Clevis Pin	
27	WB1212	Bush	. 2



	Item No.	Part No.		Description	
	1	4-35-296		Description	Qty
	2		1	Hydraulic Tank	1
		4-35-187	(Cover Plate Assembly	
14 827	3	T18B	(Gasket	
	4	P1145		Strainer	1
	5	P2578-2			1
	6			Cap	1
	7		t	Bolt 5/16" UNF x ¾" long	4
	8	110 1 157	5	Shakeproof Washer 5/16"	4
		UC 1457	f	Filter	
	9	T63M	ŀ	lose Clip	1
	10	4-35-312		Joro W" x 26" Company David	2
1.	11	T48		Hose ¾" x 36" Cotton Braid	1
	12	IPE4	. r	Pump Inlet Adaptor	1
	13	11 64	P	Pump Elbow	1
			0	Cap Screw 5/16" UNC x 2¼" long	
	14	DH69A5		O' Ring	2
	15	IP3072–CPSFB	P	Pump (see page 54)	2
	16	4-35-261		deptor	1
	17			Adaptor	1
	18	T14I	C	Capscrew 5/16" UNC x 1" long	2
	19		S	Geal 3/8" BSP	1
		T14J	A	Adaptor 3/8" BSP x 3/8" BSP	
	20	4-35-365	i.	lose 3/8" x 20" ST-90	1
	21	F4-45-74		Audraulia Control Value (and and 57)	1
	22	S9698		Avdraulic Control Valve (see page 57)	1
	23	4-60-159	1	O' Ring	5
	24		A	Adaptor 3/8" BSP x 7/8" JIC (Short)	4
		4-60-158	A	Adaptor 3/8" BSP x 7/8" JIC (Long)	1
	25	4-60-135	- H	lose 3/8" x 77" ST-90	
	26	4-60-115	۵	Adaptor 3/8" BSP x ¼" UNF (Long)	1
	27	4-35-40K		deptor 3/0" DOI X /4 UNIF (Clog)	2
	28	2ST72J	A	Adaptor 3/8" BSP x ¾" UNF (Short)	3
99-530063	29	251725	-(O' Ring	5
11-550005	30		S	teering Column (Taper/Serration Type)	1
		OSP160SMMT	S	teering Valve Complete (Taper/Serration Type)	
	31	347K	* S	teering Wheel	
	32	1304 C 318.	ñ	Domed Nut 5/8" UNF	1
	33	SCA 315			1
	34	UE 160	3	teering Column (Taper/Key Type)	1
	35		S	teering Valve Complete (Taper/Key Type)	1
•		153	S	teering Wheel	1
	36		. N	Voodruff Key No.11	-
	37		W	Vasher ¾" dia	1
	38	4-60-247	N	lu+	1
	39	153A		lut	1.
	40	4-60-133	5	teering Wheel Cap	1
	41		H	lose 3/8" x 48" ST-90	1
		3SH 60	H	lose 3/8" x 51" ST-90	1
	42	4-35-244	н	lose 3/8" x 36" 90-90	-
	43	4-35-245	н	lose 3/8'' x 43'' 90–90	1
	44	TD 3894			1
	45	4-35-294	2	teering Ram (see page 60)	1
	46		н	lose 3/8" x 112" ST-90	1
		4-35-179	H	lose 3/8" x 56" ST-90	2
	47	2ST 72M	Т	ee	++
	48	3SH63	Ĥ	lose 3/8" x 23½" ST-90	2
	49	F4-45-67		Petriotos Adaptes	4
	50	F4-45-68	н	estrictor Adaptor	4
	51		C	opper Washer	5
		F4-45-59	A	daptor	1
	52	16097-351	0	Prifice Plate	3
	53	237 S	й	lose Clip	-
	54	200-100-RAD	D	umo (see page 55)	1
	55	4-60-159	P	ump (see page 55)	1
	56		A	daptor 3/8" BSP x 7/8" SAE	1
		59698	·(D' Ring 7/8" dia	1
	57	ASE 138	'(D' Ring 1–1/16" dia.	1
	58	DSE 113	^	daptor ¼" BSP x 1–1/16" SAE	1
	59	BSE 109		Ω^0 Hose Eitting 3/1 DCD	1
	60		9	0° Hose Fitting ¾" BSP	1
		7495-G-1000	F	low Divider C/W cap screws & 'O' Ring	1
	61		C	ap Screw 3/8" UNC x 1" long	4
	62	100-145-010	'(D' Ring	1
	63	FSE 122	P	lock	
	64	T14H	0	lock	1
	65	T63K	D	owty Seal 1/2"	2
	66		A	daptor 1/2" x 3/8" BSP	2
		H-1501-12	D	lowty Seal 3/4"	1
	67	H-1001-6-12	A	daptor 3/4" x 3/8" BSP	1
~	68	T14I	n	lowty Seal 3/8"	1
~	69	T14J	U A	owty Seal 3/8"	1
~		1 1 10	A	daptor 3/8" x 3/8" BSP	1
~	70		B	olt M8 x 35mm long & Nut	2
	70	00770			
	71	2ST72M	Т	ee	1
۳ ۶		2ST72M 2ST72N	T	ee	1
*	71	2ST72N	T E	ee	1
e	71 72 73	2ST72N 5ST 87	E H	ee	1 1 1
÷	71 72	2ST72N	E H H	ee	1 1 1



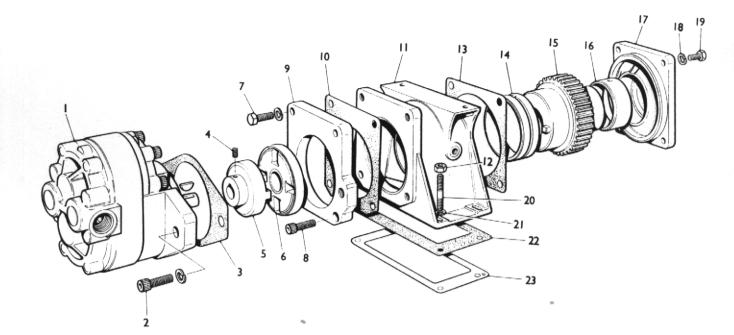
HYDRAULIC PUMP & DRIVE

Description

item	INO.	Part	NO.	

Otv	
QUY	

IP3072CPSFB	Pump complete	1
	Stud, washer & nut	2
334932	Joint	1
724202	Socket Screw 1/4" BSF x 5/16" long	1
334931	Coupling (Pump Half)	1
266185	Coupling Assy	1
725049	Bolt 3/8" BSF x 1" long	2
724056	Cap Screw 3/8" BSF x 3/4" long	2
292709		1
266159		1
2-197597		1
726003	Nut 3/8" BSF	4
264702		1
2-264704		1
334968		1
2-202485		1
264701	Cover – Pump Housing	1
786029	Spring Washer $-5/16''$	4
722024	Bolt 5/16" BSF x 5/8" long	4
760061	Stud 3/8" BSF x 1 3/8" long	4
786030	Spring Washer – 3/8"	4
264700	Joint	1
264706	Shim	A.R.
	334932 724202 334931 266185 725049 724056 292709 266159 2–197597 726003 264702 2–264704 334968 2–202485 264701 786029 722024 760061 786030 264700	Stud, washer & nut334932Joint724202Socket Screw 1/4" BSF x 5/16" long334931Coupling (Pump Half)266185Coupling Assy725049Bolt 3/8" BSF x 1" long724056Cap Screw 3/8" BSF x 3/4" long292709Spigot Plate266159Joint2-197597Pump Housing726003Nut 3/8" BSF264702Joint2-264704Bearing334968Gearwheel2-202485Bearing264701Cover - Pump Housing786029Spring Washer - 5/16"722024Bolt 5/16" BSF x 1 3/8" long760061Stud 3/8" BSF x 1 3/8" long786030Spring Washer - 3/8"264700Joint



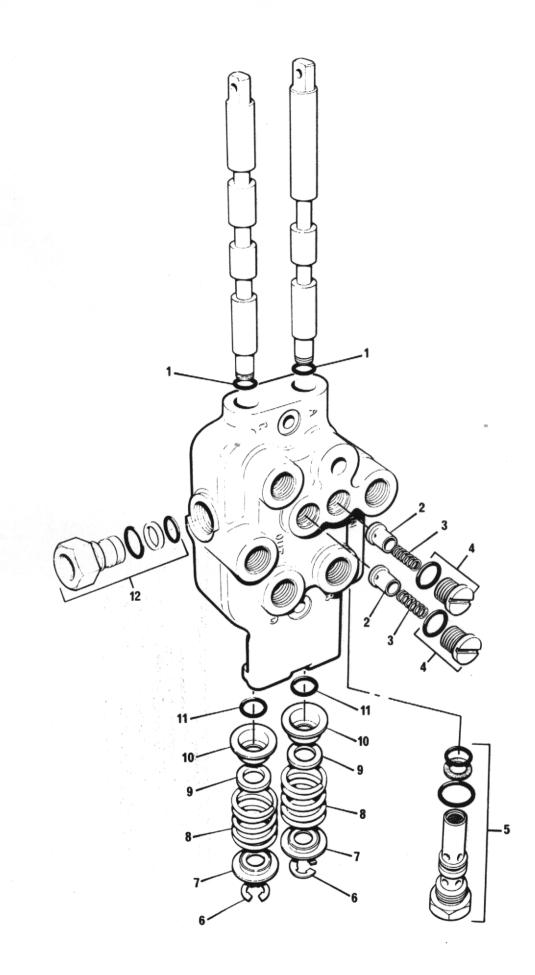
HYDRAULIC PUMP & DRIVE

Description

Item No. Part No.

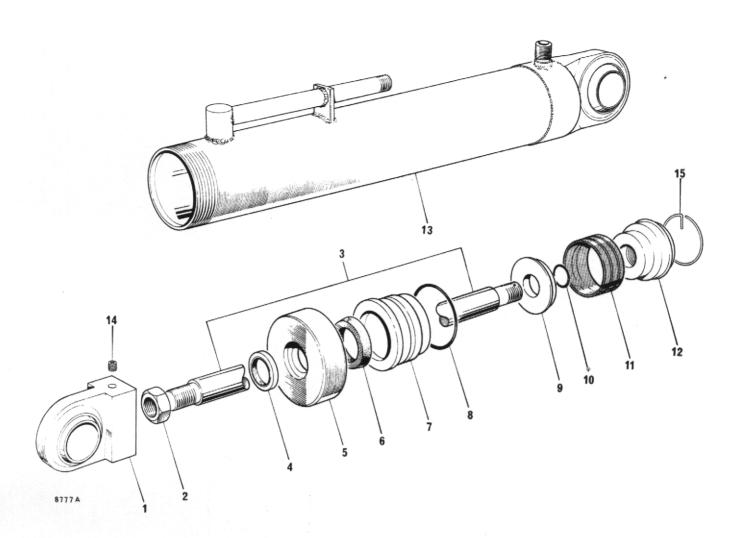
Qty

1	200-100-RAD	Pump Complete 1	
2		Cap Screw	
3	334932	Joint	
4	724202	Socket Screw 1/4" BSF x 5/16" long 1	
5	334931	Coupling (Pump Half) 1	
6	266185	Coupling Assy 1	
7	725049	Bolt 3/8" BSF x 1" long 2	
8	724056	Cap Screw 3/8" BSF x 3/4" long 2	
9	292709	Spigot Plate 1	
10	266159	Joint	
11	2-197597	Pump Housing 1	
12	726003	Nut 3/8" BSF 4	
13	264702	Joint	
14	2-264704	Bearing 1	
15	334968	Gearwheel 1	
16	2-202485	Bearing 1	
17	264701	Cover – Pump Housing	
18	786029	Spring Washer – 5/16"	
19	722024	Bolt 5/16" BSF x 5/8" long 4	
20	760061	Stud 3/8" BSF x 1 3/8" long 4	
21	786030	Spring Washer – 3/8"	
22	264700	Joint	-
23	264706	Shim	۲



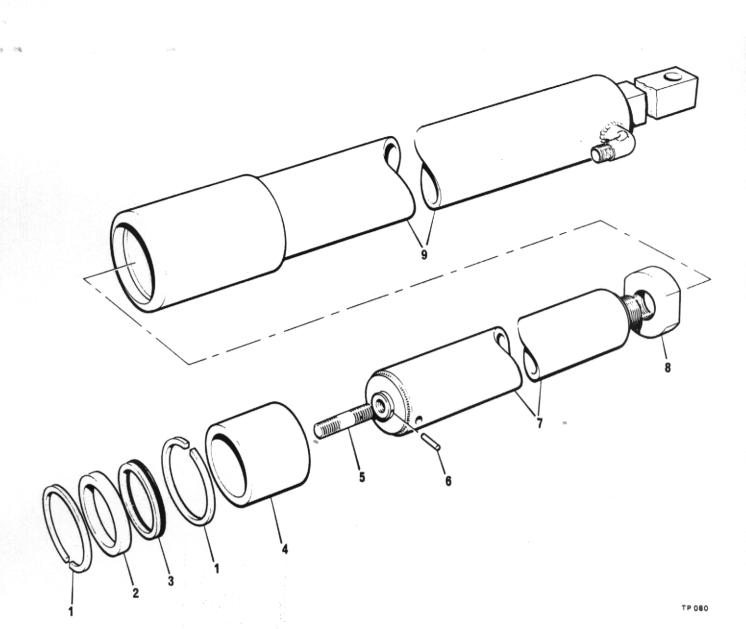
HYDRAULIC CONTROL VALVE

Item No. 30	Part No. 0 016 AAD	Description	Qty.
	F-45-74	Control Valve Assembly (1 per M/c)	
1	16004-63	'O' Ring	2
2	30501-12	Lift Check Plunger	
3	30501-13	Lift Check Spring	2
4	30501-17	Lift Check Plug Assembly	2
5	32018–J9	Relief Valve Assembly	
6	16124-50	Clip Ring (½" Shaft)	2
7	15546-6	Shallow Washer	2
8	30501-39	Spool Spring	2
9	16048-31	Spacer Washer	2
10	30501-10	Deep Washer	2
11	16003-12	'O' Ring 3/32" x 5/8" I.D.	2
12	30501-15	Pressure Beyond Plug Assembly	1



MAST TILT RAM

Item No.	Part No.	Description	Qty
	4-35-295	Cylinder Complete (2 per M/c)	
1	K1/11	Piston Rod Fitting	1
2	K1/19	Locknut	1
3	TD3890	Piston Rod	1
4	K1/18	Wiper	1
5	K1/4	Tube Cap	1
6	K1/17	Sleeve Seal	1
7	K1/5	Sleeve	1
8	K1/16	Sleeve 'O' Ring	1
9	K1/15	Backing Washer	1
10	K1/13	Piston 'O' Ring	1
11	K1/12	Piston Seal	1
12	K1/14	Piston Head	1
13	TD 6531	Cylinder, Bosses and End Cap	1
14	K1/21	Grub Screw	1
15	K1/22	Spring Ring	1
			•



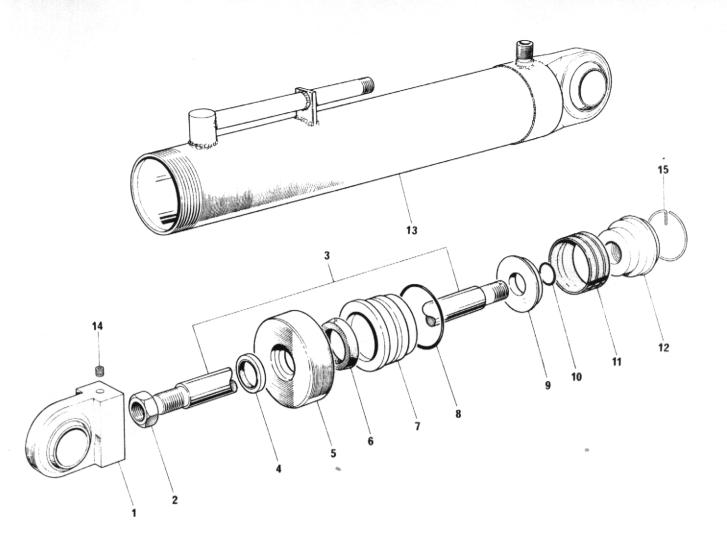
MAST RAM

Item No. Part No.

Description

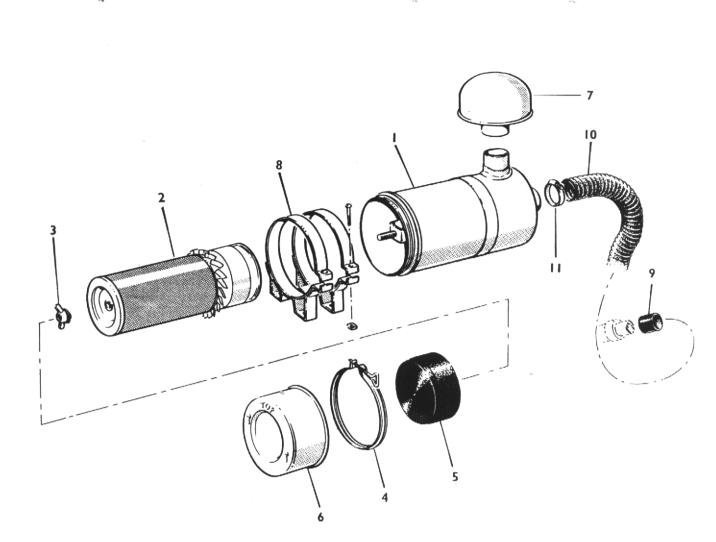
Qty.

B549-14-A	Cylinder Complete (18' Fork Lift only) 1
B546-14	Cylinder Complete (13' Fork Lift only) 1
B543-14	Cylinder Complete (10'-6" Fork Lift only) 1
506-6	Circlip (Type 1300–3½" dia.) 2
E506-3	Junk Plate 1
506-4	Seal 1
E506-2	Cylinder Rod Guide 1
E500-29	Stud 1
12PG100	Groverlock Pin 1/8" dia. x 1" long 1
D549-5	Cylinder Rod Assembly (18' Fork Lift only) 1
D546-5	Cylinder Rod Assembly (13' Fork Lift only) 1
D543-5	Cylinder Rod Assembly (10'-6" Fork Lift only) 1
E509-16	Cylinder End Nut 1
C549-8	Barrel Assembly (18' Fork Lift only) 1
C546-8	Barrel Assembly (13' Fork Lift only) 1
C543–8	Barrel Assembly (10'-6" Fork Lift only) 1



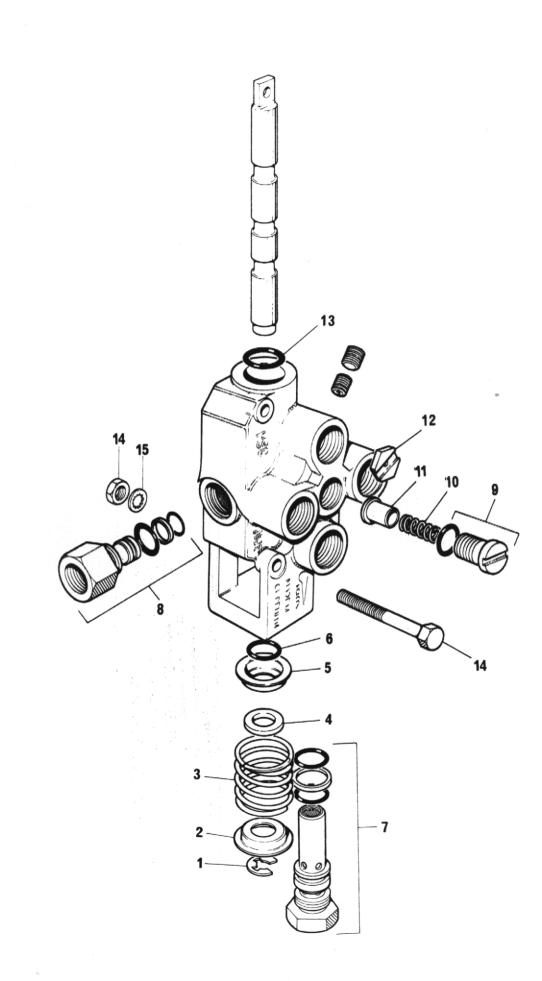
STEERING RAM

Item No.	Part No.	Description	Qty.
	TD3894	Ram Complete (1 Per Machine)	
1	K1/11	Piston Rod Fitting	1
2	K1/19	Locknut	
3	K1/2	Piston Rod	
4	K1/18	Wiper	
5	K1/4	 Tube Cap	
6	K1/17	Sleeve Seal	
7	K1/5	Sleeve	
8	K1/16	Sleeve 'O' Ring	1
9	K1/15	Backing Washer	1
10	K1/13	Piston 'O' Ring	1
11	K1/12	Piston Seal	1
12	K1/14	Piston Head	
13	K1/20	Cylinder, Bosses & End Cap	
14	K1/21	Grub Screw	
15	K1/22	Spring Ring	1



AIR CLEANER

Item No.	Part No.	Description	Qty.
1	10532A02	Air Cleaner Assembly	1
2	10532A0101	Element	1
3	V600487	Nut & Gasket Kit	1
4	220229002	Clamp Body	1
5	220229003	Skirt, baffle	1
6	220229004	Cup	1
7	10534A02	Stack Cap	1
8	10533A02	Bracket	2
9	10320A06	Adapter sleeve	1
10	166S02	Hose Flexible 2" Bore x 20" Long (Order by metre)	1
10	97S12	Hose Clip	2



HYDRAULIC CONTROL VALVE (only fitted on machines with hydraulic tip bucket)

Item No.	Part No.	Description	Qty.
	300-024-GAA	Control Valve Assembly (1 Per M/c)	
1	16124-50	Clip Ring (1/2" Shaft)	1
2	15546-6	Shallow Washer	1
3	30501-39	Spool Spring	1
4	16048-31	Washer Spacer	1
5	30501-10	Deep Washer	1
6	16003-12	'O' Ring 3/32" x 5/8" 1/D	1
7	300-055-J9A	Relief Valve Assembly	1
8	30501-15	Pressure Beyond Plug Assembly	1
9	30501-17	Lift Check Plug Assembly	1
10	30501-13	Lift Check Spring	1
11	30501-12	Lift Check Plunger	1
12	16097-451	Orifice Plate.	1
13	16004-63	'O' Ring	1
14		Bolt 5/16" UNF x 2 1/2" Long and Nut	2
15		Shakeproof Washer	2

Inches				Milli-	Milli- Inches			Milli-
Fractions Decimals			metres		Fractions	Decimals	metres	
1/64				0.397	33/64 -		0.515625	13.097
	1/32 -			0.794		17/32	- 0.53125	13.494
3/64				1.191	35/64 -		0.546875	13.891
		1/16 —	0.0625	1.588	2. 4 2. 1	9/16	- 0.5625	14.288
5/64				1.984	37/64 -		- 0.578125	14.684
		199 199 - 199		2.381		19/32	- 0.59375	15.081
7/64			0.109375	2.778	39/64 -		0.609375	15.478
		1/8 -		3.175		5/8-	- 0.625	15.875
9/64			0.140625	3.572	41/64 -		- 0.640625	16.272
				3.969		21/32	- 0.65625	16.669
11/64			0.171875	4.366	43/64 -		0.671875	17.066
		3/16 -	0.1875	4.763	1	11/16	- 0.6875	17.463
3/64		-	0.203125	5.159	45/64 -		0.703125	17.859
	7/32 -			5.556		23/32	0.71875	18.256
5/64	<u>.</u>		0.234375	5.953	47/64 -		0.734375	18.653
		1/4	0.250	6.350		3/4	- 0 750	19.050
7/64			0.265625	6.747	49/64 -	5/4	- 0.765625	19,447
	9/32		0.28125	7.144		25/32		19.844
9/64 -			0.296875	7.541	51/64 -			20,241
		5/16 -	0.3125	7.938		13/16	- 0.8125	20.638
1/64			0.328125	8.334	53/64 -	10/10	- 0.828125	21.034
	11/32		0.34375	8.731		27/32		21.431
3/64	·		0.359375	9,128	55/64 -		- 0.859375	21.828
. •		3/8 -	0.375	9.525		7/8	- 0.875	22.225
5/64			0.390625	9.922	57/64 -	//8	- 0.890625	22.622
	13/32 -	-	0.40625	10.319		29/32		23.019
7/64 -				10.716	59/64 -		- 0.921875	23.416
		7/16 -	0.4375	11.113				23.813
9/64 -		- Aller	0.453125	11.509	61/64 -	15/16	- 0.953125	24.209
	15/32 -	<u> </u>	0.46875	11.906		31/32	- 0.96875	24.606
1/64 .			0.484375	12.303	63/64 -	01/02		25.003
		1/2 -		12,700			1.000	25.400

DECIMAL, FRACTIONAL AND METRIC EQUIVALENTS

INCHES INTO MILLIMETRES

Inches	0	1	2	3	4	5	6	7	8	9
0	0	25.40	50.80	76.20	101.60	127.00	152.40	177.80	203.20	228.60
10	254.00	279.40	304.80	330.20	355.60	381.00	406.40	431.80	457.20	482.60
20	508.00	533.40	558.80	584.20	609.60	635.00	660.40	685.80	711.20	736.60
30	762.00	787.40	812.80	838.20	863.60	889.00	914.40	939.80	965.20	990.60
40	1016.00	1041.40	1066.80	1092.20	1117.60	1143.00	1168.40	1193.80	1219.20	1244.60
50	1270.00	1295.40	1320.80	1346.20	1371.60	1397.00	1422.40	1447.80	1473.20	1498.60
60	1524.00	1549.40	1574.80	1600.20	1625.60	1651.00	1678.40	1701.80	1727.20	1752.60
70	1778.00	1803.40	1828.80	1854.20	1879.60	1905.00	1930.40	1955.80	1981.20	2006.60
80	2032.00	2057.40	2082.80	2108.20	2133.60	2159.00	2184.40	2209.80	2235.20	2260.00
90	2286.00	2311.40	2336.80	2362.20	2387.60	2413.00	-2438.40	2463.80	2489.20	2514.61

Use in conjunction with above table.

Example: Find equivalent mm. for 84 5/8". 84'' = 2133.60 mm.

5/8" = 15.875 mm.

84 5/8" = 2149.475 mm.

CALIFORNIA

Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm