

OPERATING INSTRUCTIONS & SPARE PARTS LIST

2ST DIESEL DUMPER

ISSUED DECEMBER 1974 REPRINTED JULY 2002

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INTRODUCTION

This Parts & Operators Manual is a re-print of the manual last published in 1974 and contains some amended part numbers.

Health & Safety legislation and working practices applicable to Site Dumpers, both 2 and 4 wheel Drive, Rigid Chassis and Articulated Chassis have changed considerably in the years since this manual was last published and immediately following this Introduction are notes on the Safe Use of Site Dumpers. These notes supersede and replace all previous 'Dumper Safety' notes issued with Winget 2ST Dumpers

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.

Winget Limited operate a policy of continuous product development. Therefore, some illustrations or text within this publication may differ from your machine.

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SAFE WORKING

Safety is the responsibility of all persons working with this machine. Think "safety" at all times. *Read and remember the contents of this handbook.*

The safe working recommendations for specific tasks are found with the instructions for the relevant operation in this Handbook.

MACHINE MODIFICATION

WARNING Any modifications to the machine will affect its working parameters and safety



factors. Refer to the Manufacturers before fitting any non-standard equipment or parts.

The Manufacturers accept no responsibility for any modifications made after the machine has left the factory, unless previously agreed by the Manufacturers in writing; the Manufacturers will accept no liability for damage to property, personnel or the machine if failure is brought about due to such modifications, or fitment of spurious parts.

TRAINING

WARNING Only trained operators should use this machine.



Operators should hold an appropriate full motor vehicle driving licence and undergo both a safety awareness course and a driver training course for Site dumpers run by the C.ITB or equivalent body leading to the award of a CTA.

It is strongly recommended that operators read the H.S.E. publication "Safe Working with Small Dumpers" which is available from government bookshops (HMSO) or from other bookshops quoting the following number ISBN 011 8836935. Another useful publication is British Standard number BS 6264, "Procedure for Operator Training For Earth Moving Machinery" available from the British Standard Institution.

RUNNING-IN

WARNING While a gradual 'running-in' of a new engine is not necessary, it is extremely important that the instructions given in *Section 2 "Operation"* on "Running-in a new engine" should be followed very closely during the first fifty hours of operation.

DRIVING

WARNING *NEVER* use the machine for purposes other than those for which it was designed. This machine was designed to carry loads such as soil, clay, sand, wet concrete, stone or other similar materials. It was not designed to carry loads which may move around in the skip uncontrollably, nor to carry any loads or materials which overhang the skip in any way. If in any doubt as to the suitability of this machine for a particular task, contact your nearest Distributor or the Manufacturer for advice.

ALWAYS be aware of local and national regulations governing the use of the machine.

NEVER commence work with the machine until the "Daily (or every ten hours)" service checks have been made. (*See Service Section* for details)

ALWAYS check wheel nut tightness daily.

NEVER carry passengers.

1.2

Ensure that the seat is securely fixed to the machine. Where seat belt restraints are fitted as part of Rops/Fops protection they must be worn. Check that the seat belt is in good condition, free from cuts and frayed edges.

ALWAYS remain in the driving seat whenever the engine is running. Never attempt to operate any controls unless seated.

ALWAYS apply the parking brake before leaving the driver's seat.

NEVER dismount with the engine running, and never leave the machine unattended with the key in the starter switch.

When Battery Isolators are fitted they must be activated only when the engine is turned off except in cases of emergency.

Activating a Battery Isolator when the engine is running can result in damage to the electrical components and circuits.

NEVER fill the fuel or hydraulic tanks with the engine running.

ALWAYS drive only on surfaces that are known to be stable.

ALWAYS keep the floor plates and walkways clean.

NEVER drive the machine close to the edge of any excavation. Always use effective wheel stops to prevent the machine running close to the edge. Make sure that the stops are in proportion to the size of the wheels and are set sufficiently far enough back from the edge of any excavation to prevent the weight of the load causing a collapse.

NEVER adjust the tyre pressures in an attempt to improve traction on soft ground or obtain a softer ride on hard ground. Incorrectly adjusted tyres can affect the steering and handling characteristics.

NEVER attempt to free a machine which is 'bogged down' by pushing with the bucket of a backhoe loader, tracked excavator or other similar machine.

NEVER make unnecessary "crash stops" when travelling at speed, especially in forward direction.

NEVER work under an unpropped skip. If the dumper was supplied with a special skip support always ensure that it is used.

SAFE WORKING

SKIPS AND LOADING

WARNING NEVER exceed the rated payload. The weights of all loads above skip water

level must be checked.

NEVER remain on the machine when loading the skip with excavators or loaders. Stop the engine, apply the parking brake, dismount, and stand well clear.

ALWAYS ensure that the load is evenly distributed in the skip.

NEVER carry loads or heap materials in such a manner as to affect the forward vision.

ALWAYS take extra care when tipping non free running loads.

NEVER use the skip in a tipped position to bulldoze heaped materials level or to backfill material into excavations.

TOWING

WARNING NEVER attempt to start the engine of a dumper by towing or pushing.



Dumpers are not designed as towing vehicles. However, trailers may be towed provided that:

The combined weight of the trailer and its load does not exceed the 1 dumper "drawbar pull of 250kg (2500N)" and dumper "drawbar load of 50kg (500N)".

2 Trailers may be towed in first gear on level dry ground, provided a purpose made towing pin is used.

3 The dumper skip must be loaded with half the rated payload to ensure tyre adhesion when braking.

NEVER tow loads up, down or across gradients.

GRADIENTS

WARNING NEVER operate Two Wheel Drive rigid chassis dumpers on any gradients



which exceed 10% (1 in 10), or across gradients which exceed 10% (1 in 10).

ALWAYS remember that slippery or loose surface conditions can adversely affect safe machine operation, including braking, particularly on gradients.

ALWAYS choose routes that avoid steep, slippery or loose gradients.

NEVER coast down gradients. Always negotiate gradients in first gear.

ALWAYS drive forwards up gradients when loaded.

ALWAYS reverse down gradients when loaded.

ALWAYS keep the load facing uphill.

NEVER park on a gradient. If this is unavoidable, ALWAYS chock the wheels.

NEVER attempt to turn on a gradient

NEVER tow up, down or across a gradient.

NEVER operate high discharge or rotating skips on gradients.

HYDRAULICS

1.4

WARNING *ALWAYS* "Dump" residual pressure from the system before leaving the machine or before carrying out any maintenance or adjustments.

If maintenance work requires the skip to be in the raised position, then it must be raised and supported before dumping the pressure.

Dump pressure by switching off the engine, then moving the hydraulic control lever several times in each direction.

NEVER leave the machine unattended with pressure in the system.

ALWAYS purge hydraulic rams before commencing work. With the engine running operate the hydraulic control to fully extend and retract the rams.

ALWAYS practise the greatest cleanliness in maintaining hydraulic components.

SERVICING

WARNING *ALWAYS* report any defect at once, before an accident or consequential damage can occur.

ALWAYS conform to service schedules except where:

- 1 Warning lights or warning indicators call for immediate attention.
- Adverse conditions necessitate more frequent servicing.

ALWAYS wear correctly fitting protective clothing. Loose or baggy clothing can be extremely dangerous when working on running engines or machinery.

ALWAYS, where possible, work on or close to engines or machinery only when they are stopped. If this is not practical, remember to keep tools, test equipment and all parts of your body well away from the moving parts.

ALWAYS "Dump" pressure from the hydraulic system before carrying out any kind of maintenance or adjustment. (see Service - Hydraulic system).

ALWAYS avoid contact with exhaust pipes, exhaust manifolds and silencers when the engine is running; these can be very hot.

ALWAYS work out of doors, or in a well-ventilated area.

NEVER run an engine in an enclosed space. Exhaust fumes in enclosed areas can kill.

SAFE WORKING

ALWAYS disconnect battery cables and remove battery before using an external charger, carrying out welding repairs or to prevent unauthorised usage when unattended or during a repair.

NEVER allow unqualified personnel to attempt to repair, remove or replace any part of the machine, or anyone to remove large or heavy components without adequate lifting tackle.

NEVER attempt to modify or repair Rops Frames or Fops Canopies by welding, drilling or any other means. Attempts to do so will invalidate Rops/Fops Certification.

ALWAYS obtain advice before mixing oils; some are incompatible. If in doubt drain and refill.

NEVER allow oils and fuels to come into regular contact with skin. This can lead to serious skin diseases including, medical evidence suggests, skin cancer. ALWAYS wear protective gloves when handling oils and fuels whether topping up, draining or refilling. ALWAYS wash hands if oils or fuels come into contact with the skin.

Many liquids used in this machine are harmful if taken internally or splashed into the eyes. In the event of accidentally swallowing oils, fuels, anti-freeze, battery acid etc, *DO NOT* encourage vomiting, seek qualified medical assistance immediately.

ALWAYS dispose of waste oils and fuels into waste oil storage tanks. If storage tanks are not available consult your distributor or local authority for addresses of local designated disposal points. It is illegal to dispose of waste oil into drains or water courses or to bury it.

Equipment which includes friction materials will sometimes contain asbestos. When removing friction material dust from components, such as when servicing brakes or clutches, do not blow out with an airline; it could be harmful to inhale the dust. Remove the dust with a vacuum cleaner or wipe clean with a damp rag. Waste should be placed in a sealed container, marked, and disposed of in accordance with local or national regulations.

The accumlated dust found in clutch housings may contain lead/antimony. No food should be eaten at a work place contaminated by this dust. Hands must be washed before eating. Do not blow out dust with an airline.

NEVER work under an unpropped skip. If the dumper was supplied with a special Skip Support always ensure that it is used.

ALWAYS ensure that when using a starting handle that it is clean and in good condition. Keep the engine starting dog and the part of the starting handle that mates with it lightly lubricated (*Refer to the Engine Handbook*).

PREPARATION FOR USE

BEFORE THE 2ST DUMPER IS PUT INTO SERVICE ALWAYS CHECK THE FOLLOWING POINTS:--

(See Fig. 1) 1. Engine

i. 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 Axle

Remove level plug (C) and check that oil is up to bottom of hole. Top up if necessary through filler plug (D). See also 'Recommended Lubricating Oils', Page 16.

4. Steering Box

Remove oil level/filler plug (E) (accessible through bracket) and top up if necessary. See also 'Recommended Lubricating Oils' Page 16.

5. Fuel Tank

Remove filler cap (F) and fill with diesel oil until approximately 1" from the top.

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

6. 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.

7. Hydraulic Brake System (if fitted)

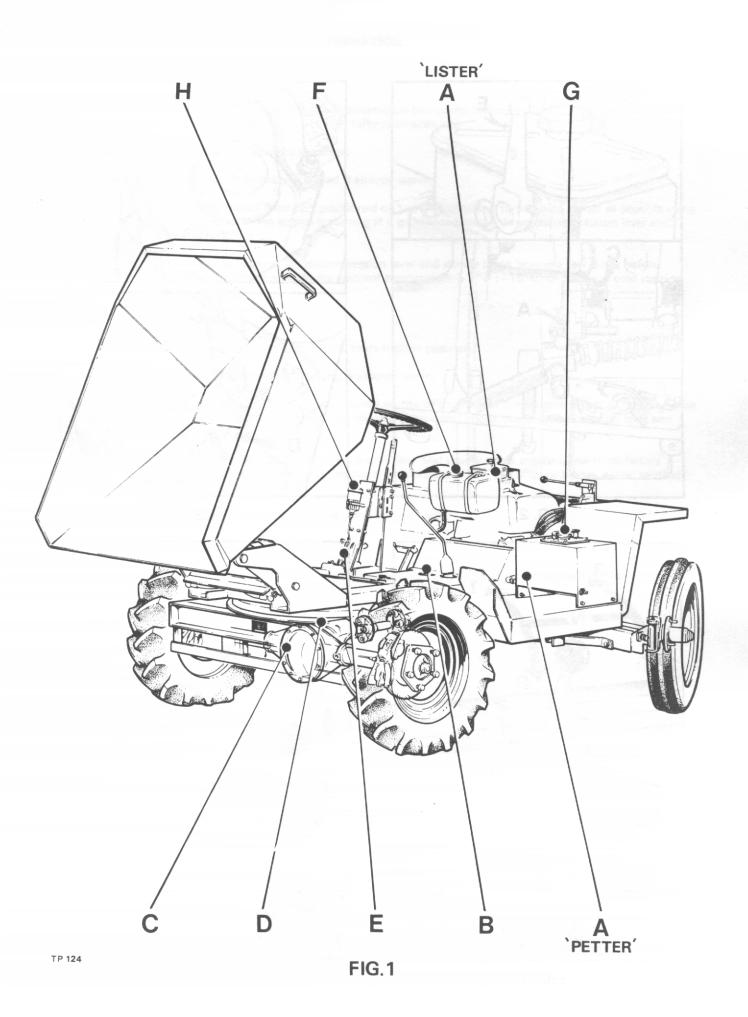
Ensure the brake master cylinder reservoir (H) is full of brake fluid. Top up if necessary to within 1/4'' of the top of the reservoir. Use only brake fluid that conforms to SAE. J 1703.

8. 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 Dumper Warranty.

N.B. For further Lubrication information see Fig. 6 and corresponding text (pages 8 & 9)



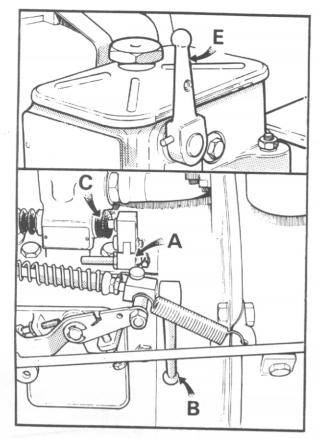


FIG. 2

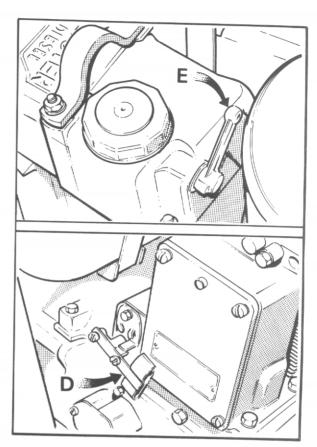


FIG.3

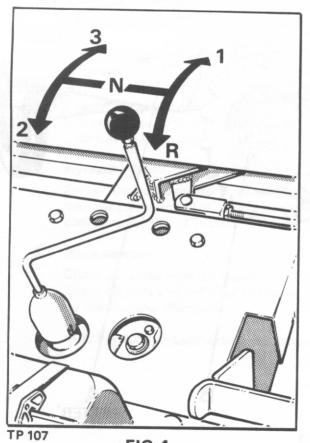


FIG.4

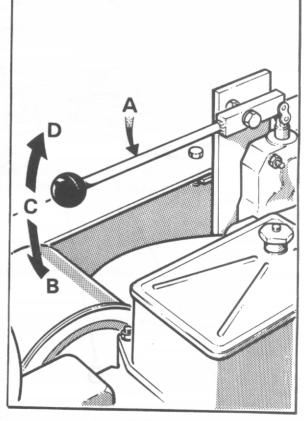


FIG. 5

Starting PETTER ENGINE (See fig. 2)

1. Lift red-painted overload stop (A) situated on fuel pump immediately above priming lever (B), and move fuel pump racks (C) into fully-open position.

2. Operate priming lever (B) six times.

NOTE: This is unnecessary if engine is already warm.

- Lift decompression lever (E), 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 starting aid should be fitted.

LISTER ENGINE

(See fig. 3)

1. Pull out overload lever (D) and lift to its highest position.

NOTE: This is unnecessary if engine is already warm.

- Lift decompression lever (E), 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. When ambient temperature is 5°F (-15°C) or below, a cold starting aid should be fitted.
- 4. Set overload lever (D) horizontal when engine starts.

Stopping

- PETTER ENGINE
- (See fig. 2)

Hotd the fuel pump rack (C) in the fully forward position, or lift the priming lever to the horizontal, until engine stops, then release.

LISTER ENGINE

(See fig. 3)

Push overload lever (D) to its lowest position.

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.

NOTE: LISTER ENGINE has a self-bleeding fuel system.

Gear shift lever

(See fig. 4)

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

Skip Control lever

(See fig. 5)

- 1. Control lever (A) has three positions DUMP (B), HOLD (C) and RETURN (D).
- 2. Push lever DOWN to DUMP (B) to deposit load.
- 3. Pull lever UP to RETURN (D) to return skip to carrying position.
- NOTE:- If lever is released when in DUMP or RETURN position, it will automatically return to HOLD (C) position and motion of skip will cease. In this way, speed at which load is deposited can be finely controlled.

Turntable Release lever

To release turntable, lift locking lever (which is situated on top of the chassis directly behind the right hand Drive wheel). Revolve skip to required position and lock it by pushing lever down, ensuring the locking lug locates in turntable locking plate.

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 plug from drive axle, oil level should be to bottom of hole. Top up, if necessary through filler plug.
- 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 reservoir (if hydraulic brakes are fitted). Top up, if necessary to within 1/4" of top.
- 7. WEEKLY apply grease to all grease nipples.
- 8. WEEKLY check all wheel nuts and tighten, if necessary.
- 9. WEEKLY check tyre pressures 35 lb/sq. in:
- 10. OCCASIONALLY check all nuts and bolts, and tighten if necessary.

Lubrication (See fig. 6)

Period	Key	Description	Lubrication	No. of Points
	1	Engine	Engine Oil	1
Daily	2	Fuel tank	Diesel Oil	1
	3	Gearbox	Gearbox Oil	1
	4	Drive Axle	Axle Oil	1
	5	Steering box	Axle Oil	1
	6	King Pins	Grease Gun	4
	7	Track rod ball ends	Grease Gun	2
	8	Drag link ball ends	Grease Gun	2
Weekly	9	Accelerator Pedal	Grease Gun	1
	10	Footbrake Pedal	Grease Gun	1 1
	11	Clutch Pedal	Grease Gun	1
	12	Clutch Transfer lever	Grease Gun	1
	13	Clutch Cross shaft	Grease Gun	2
	14	Drive Axle Hub bearings	Grease Gun	2
	15	Skip Pivot	Grease Gun	2
	16	Turntable bearing ring	Grease Gun	2
	17	Hydraulic Tank	Hydraulic Fluid	1
	18	Brake Master Cylinder Reservoir (if fitted)	Brake fluid	1

NB. FOR RECOMMENDED LUBRICATING OILS SEE CHART ON PAGE 16.

Oil Capacities

Engine (Petter)	5 pts. (2.86 litres) Drive Axle . . . 8 pts. (4.57 litres) 3½ pts. (2 litres) Gearbox 1½pts (.86 litres)
NOTES: 1. The rear steering axle an that require no lubrication	d stabilizer assembly articulation points consist of bearings on.
2. The drive from gearbox lubrication.	to axle is through flexible couplings that require no

- 3. For full details of the lubrication and maintenance of the engine refer to Manufacturers Manual.
- 8

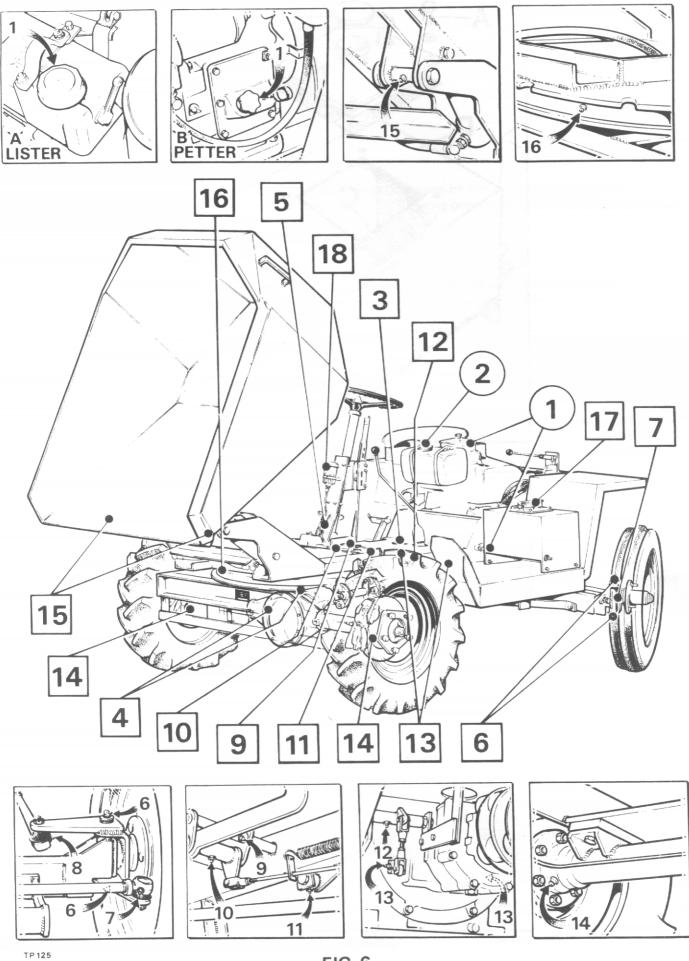
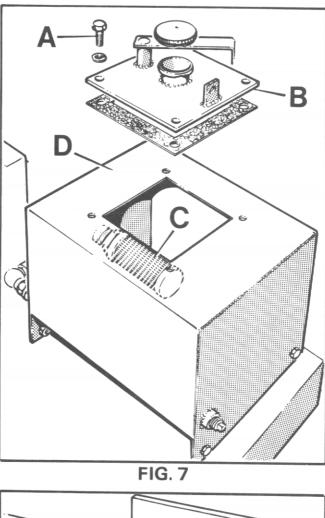
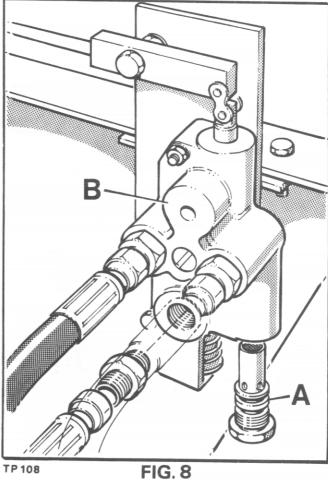


FIG. 6





Main Hydraulic System

The main hydraulic system controls the dumping and return of the skip. 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 the hydraulic filter is not blocked (See Fig. 7)
 - 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 3000 lb/sq.in. gauge into the hydraulic system at the base of the skip ram.
 - b) Operate control lever to dump skip and check that pressure reading on gauge is 2000 lb/sq.in. when ram is fully extended and relief value is 'blowing'.

NOTE: If correct pressure is not attained-

4. Remove relief valve cartridge (A) (hexagon head) from the bottom of the control valve (B) (See Fig. 8) and replace with a new one.

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.

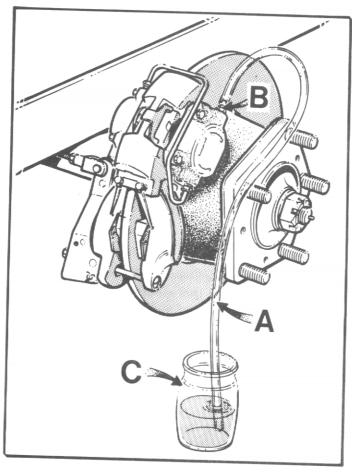


FIG. 9

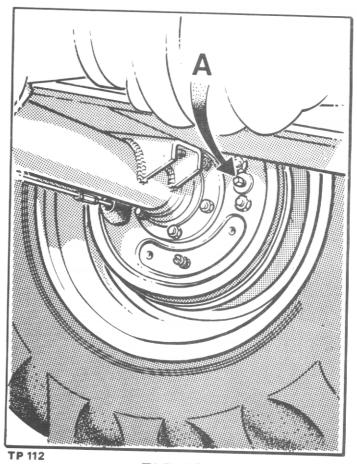


FIG. 10

Hydraulic Brake System

The brake system is designed to require the minimum of maintenance, and providing the hydraulic fluid in the reservoir is not allowed to fall below the recommended level, no defects should normally occur. Fluid loss must be supplemented by topping up the reservoir with brake fluid that conforms to SAE J 1703. 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 level 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 reservoir with brake fluid.
- 3. Attach bleeder tube (A) (See fig. 9) 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 the other bleed screw.
- 5. Continue until all air has been bled from the system.
- 6. Lock both the bleed screws and top up the reservoir to the correct level.
- 7. Apply normal working load on brake pedal for two or three minutes and examine the entire system for leaks.
- NOTE: DURING THE OPERATION IT IS ESSENTIAL THAT THE RESERVOIR LEVEL IS KEPT TOPPED UP TO PREVENT FURTHER AIR BEING DRAWN INTO THE SYSTEM. ONLY USE NEW FLUID FOR TOPPING UP.

Brake Adjustment (Drum Brakes)

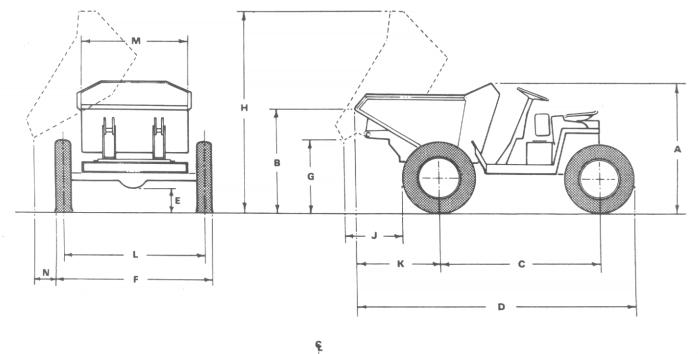
(See fig. 10)

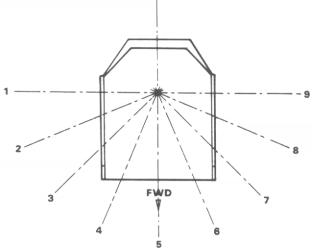
- 1. Ensure handbrake is fully off.
- 2. Pull off rubber cover from brake adjuster (A).
- 3. Screw adjuster clockwise until brakes are fully on.
- 4. Slacken adjuster anti-clockwise until brake shoes are just clear of drum. This will cause shoes to be centralised on drums and ensure that whole brake lining area is used,

SPECIFICATION

Δ	Overall beight			AL 011	(407)		
A	Overall height			4'-6''	(137 cm)		
В	Skip loading height			3'-8½''	(112 cm)		
С	Wheelbase			5'-1''	(155 cm)		
D	Overall length			8'-8½''	(265 cm)		
Е	Ground clearance			81/2''	(200 cm)		
F	Overall width				. ,		
-		the second second		5'-1''	(155 cm)		
G	Skip ground clearance	when tipped		2'-7''	(79 cm)		
Н	Overall height tipped			6'-11'	(211 cm)		
J	Discharge forward of t	tyre		1'-10½''	(57 cm)		
Κ	Overhang			2'-7''	(79 cm)		
L	Wheeltrack			4'-6''	(137 cm)		
Μ	Prow width (wide mor	uth)		3'-6''	(100 cm)		
	Prow width (narrow m			2'-0''	(61 cm)		
NI		,			. ,		
Ν	Side discharge distance	е		9′′	(23 cm)		
<u>Skir</u>				Description			
Skip				Rear axle articula		1'-2''	(36 cm)
Wat	er level	15 cu.ft	(425 Litres)	Road Speeds at 2	000 r.p.m		-
Stru	ick level	21 cu.ft.	(595 Litres)	-		m.p.h.	km.p.h.
Hea	ped level	26 cu ft	(736 Litres)	1 ct		2 5	1

Struck level	21 cu.ft.	(595 Litres)		m.p.h.	km.p.h.
Heaped level	26 cu.ft.	(736 Litres)	1st	2.5	4
Maximum payload	1 ton	(1016 kgms)	2nd	5.8	9.3
Hydraulic relief valve set	at	2	3rd	10.8	17.4
	2000 p.s.i.	(140.6 kgm/cm ²)	Rev.	2.8	4.5
Hydraulic tank capacity					
	4 gallons	(18.2 Litres) Unla	iden Weight		
Turning Circle	22'-6''	(686 cm)	1 ton	(1016 Kg	gms).







15

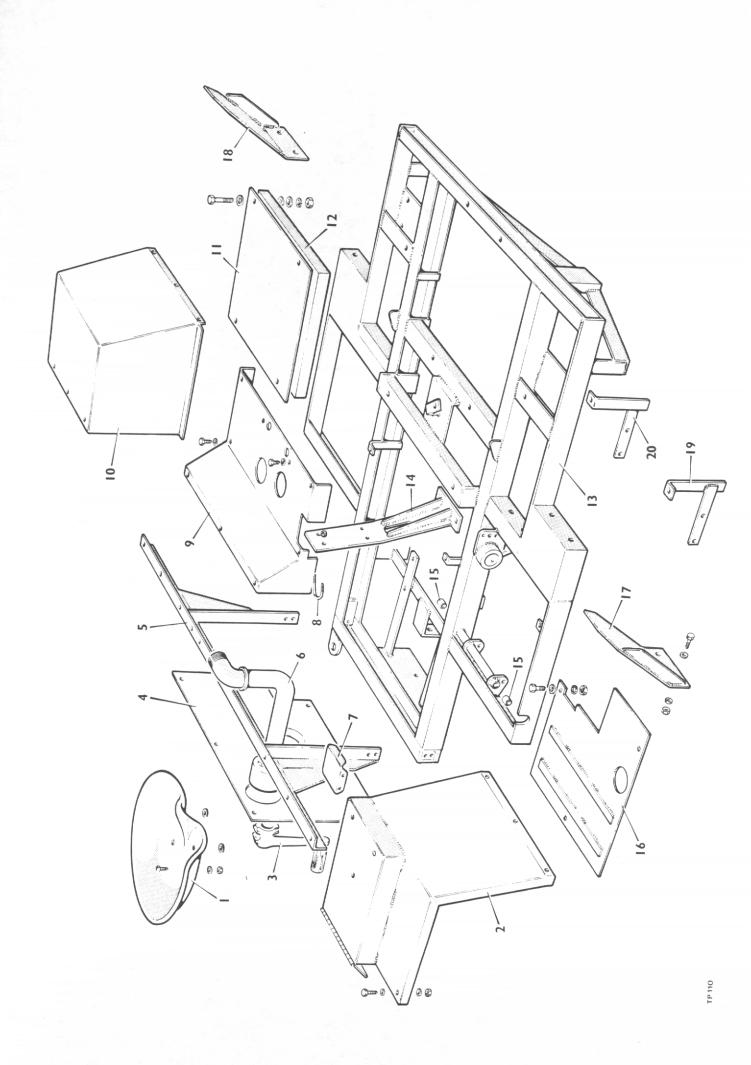
COMPANY		ENGINE	TRANSFER BOX & DRIVE AXLE	GEARBOX	WHEEL BEARINGS & OTHER GREASE POINTS	HYDRAULIC SYSTEM
(N.K.)	SUMMER WINTER	ESSOLUBE HDX 20W	GEAR OIL GP 85W/140	ESSOLUBE HDX 30	BEACON 2	NUT0 H44
ESSO (Overseas)	ABOVE 32 ⁰ C 0-32 ⁰ BELOW 0 ⁰ C	ESSOLUBE HDX 30 ESSOLUBE HDX 20W ESSOLUBE HDX 10W	GEAR OIL GP 85/140 GEAR OIL GP 85/W/140 GEAR OIL GP 80W	ESSOLUBE HDX 30	BEACON 2	NUTO H54 NUTO H44 NUTO H40
(n.K.)	SUMMER WINTER	DEUSOL CRI 20	DEUSOL GEAR EP 90	DEUSOL CRI 30	CASTROL SPHEEROL APT 2	CASTROI
CASTROL	ABOVE 32 ⁰ C 0-32 ⁰ C BELOW 0 ⁰ C	DEUSOL CRI 30 DEUSOL CRI 20 DEUSOL CRI 10	DEUSOL GEAR EP 140 DEUSOL GEAR EP 90 DEUSOL GEAR EP 80	DEUSOL CRI 30	CASTROL SPHEEROL APT2	HYSPIN AWS 32
(U.K.)	SUMMER WINTER	ROTELLA SX OIL 20/20W	SPIRAX 90 EP	ROTELLA SX OIL 30	RETINAX A	TELLUS OIL 37
SHELL (Overseas)	ABOVE 32 ⁰ C 0-32 ⁰ C BELOW 0 ⁰ C	ROTELLA SX 01L 30 ROTELLA SX 01L 20/20W ROTELLA SX 01L 10W	SPIRAX 140 EP SPIRAX 90 EP SPIRAX 80 EP	ROTELLA SX OIL 30	RETINAX A	
(N.K.)	SUMMER WINTER	VENELLUS M20W	GEAR OIL SAE 90 EP	VANELLUS M30	ENERGREASE L2	ENERGOL HLP 65
BP (Overseas)	ABOVE 32 ⁰ C 0-32 ⁰ C BELOW 0 ⁰ C	VANELLUS M30 VANELLUS M20W VANELLUS M10W	GEAR OIL SAE 140 EP GEAR OIL SAE 90 EP GEAR OIL SAE 80 EP	VANELLUS M30	ENERGREASE L2	
(U.K.)	SUMMER WINTER	DELVAC 1220	MOBILUBE HD 90 MOBILUBE GX 90	DELVAC 1230	MOBIL GREASE MP	
MOBIL	ABOVE 32 ⁰ C	DELVAC 1230	MOBILUBE HD 140 MOBILUBE GX 140		MOBILGREASE	DTE 24
	0-32°C	DELVAC 1220	MOBILUBE HD 90 MOBILUBE GX 90			
(Overseas) ALL TEMP	(Overseas) BELOW 0 ⁰ C ALL TEMPERATURES	DELVAC 1210 DELVAC SPECIAL 10W-30	MOBILUBE HD 80 MOBILUBE GX 80	DELVAC 1230		
(U.K.)	SUMMER WINTER	CENTURYROIL 20W20	CENTURY EP 90	CENTURYROIL 30	REGULUS A2	CENTURY PWLA HYD OIL
WALKERS CENTURY (Overseas)	ABOVE 32 ⁰ C 0 ⁰ C-32 ⁰ C BELOW 0 ⁰ C	CENTURYROIL 30 CENTURYROIL 20W20 CENTURYROIL 10W	CENTURY EP 140 CENTURY EP 90 CENTURY EP 80	CENTURYROIL 30	REGULUS A2	CENTURY PWLA HYD OIL
		ΙΝ Τ ΕαυΙΥΑ	IN THE UNLIKELY EVENT OF THE ABOVE OILS NOT BEING AVAILABLE EQUIVALENT OILS SUPPLIED BY A REPUTABLE MANUFACTURER MAY BE USED	IE ABOVE OILS NOT BEING REPUTABLE MANUFACTURE	AVAILABLE ER MAY BE USED	

RECOMMENDED LUBRICATING OILS

SPARE PARTS SECTION

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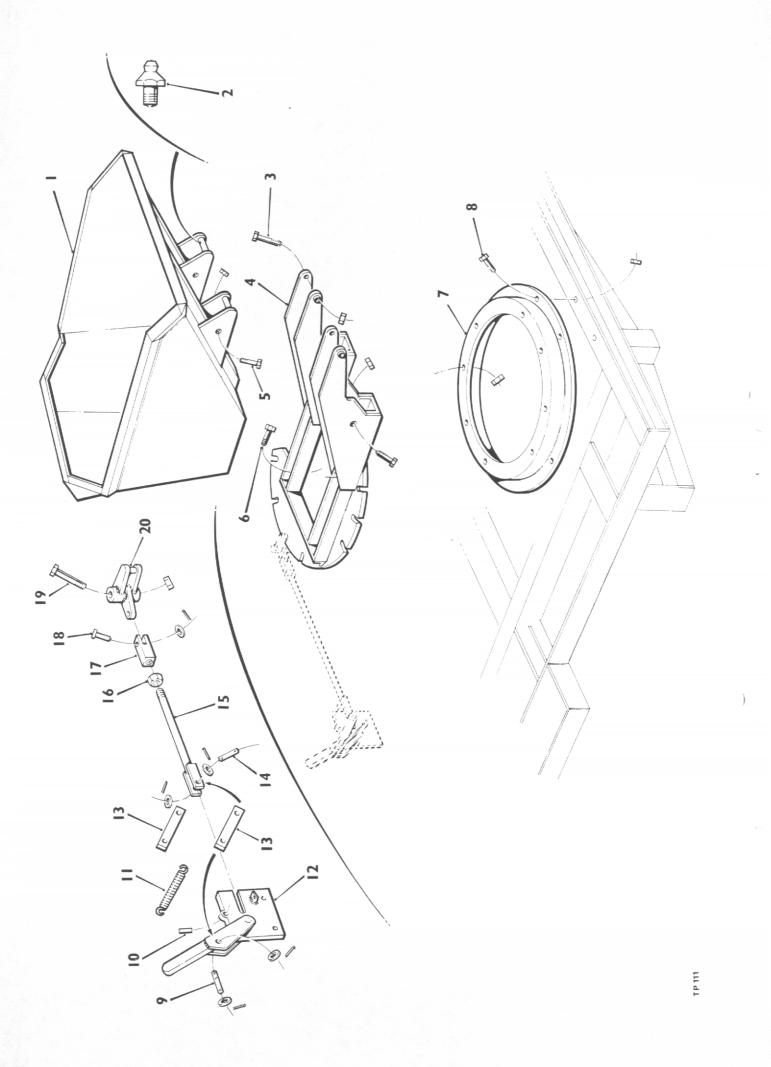
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CHASSIS, MUDWINGS & COVERS

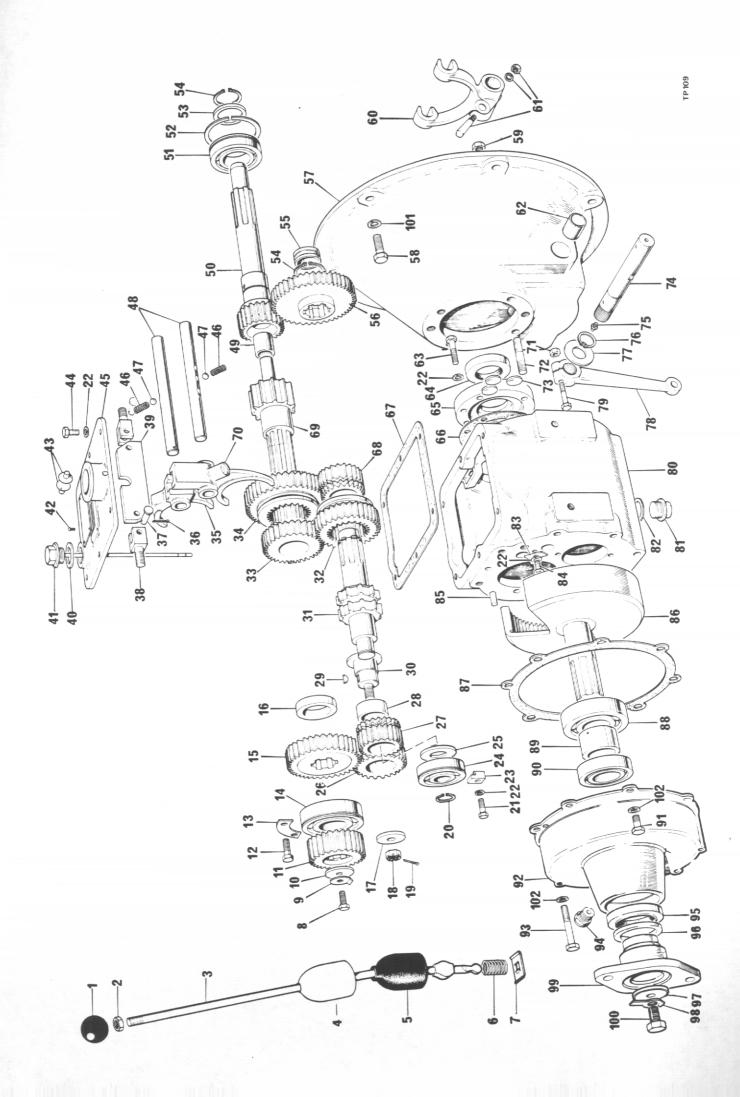
Item No.	Part No.	Description	Qty
1	C 182	Pan Seat	1
2	C 141	Mudwing R.H.	1
3	C 188	Starting Handle (PETTER)	1
ЗA	-CT 188 201-13320	Starting Handle (LISTER)	1
4	2ST 82	Rear Cover Plate (PETTER)	1
4A	2ST 83	Rear Cover Plate (LISTER)	1
5	2ST 71	Rear Cover Support & Wing Frame	1
6	C 165	Exhaust Pipe (PETTER)	1
6A	C 265	Exhaust Pipe (LISTER)	1
7	C 152	Exhaust Shroud (PETTER)	1
8	C 125	U Bolt	2
9	C 131	Gearbox Cover (PETTER)	1
9A	C 242	Gearbox Cover (LISTER)	1
10	C 135	Mudwing L.H	1
11	2ST 84	Footplate L.H.	1
12	C 181	Side Ballast Weight	1
13	2ST 51	Chassis (PETTER)	1
13A	2ST 79	Chassis (LISTER)	1
14	2ST 62	Steering Column Support	1
15	WB 0808	Accelerator Holder Bush	2
16	C 134	Footplate Drivers Side (Drum)	1
16A	C 221	Footplate Drivers Side (Disc)	1
17	2ST 77	Mudflap R.H	1
18	2ST 78	Mudflap L.H	1
19	C 1460	Gearbox Support R.H.	1
20	C 146N	Gearbox Support L.H	1

,



SKIP, TURNTABLE & CATCH ASSEMBLY

Item No.	Part No.	Description	Qty
1 2 3	2ST 101 TS	Skip	1 2
4 5 6	2ST 68	Bolt 3/4" BSF x 6" Long & Nut Turntable Frame. Bolt 5/8" BSF x 5½" Long & Nut Bolt 1/2" PSF x 11/" Long & Nut	4 1 2
7 8	2ST 76	Bolt 1/2" BSF x 1½" Long & Nut	8 1 6
9 10	2ST 114 6 R.P.16	Pin	1
11 12 13	C 173B 2ST 112A 2ST 112-5	Spring	1
14 15	2ST 115 2ST 113	Pin	2 1 1
16 17	С174 Н	Nut ½" BSF	1 1
18 19 20	WT 178-7 2ST 112-B	Clevis Pin	1 1
20	201 112-0	Bell Crank Assembly	1



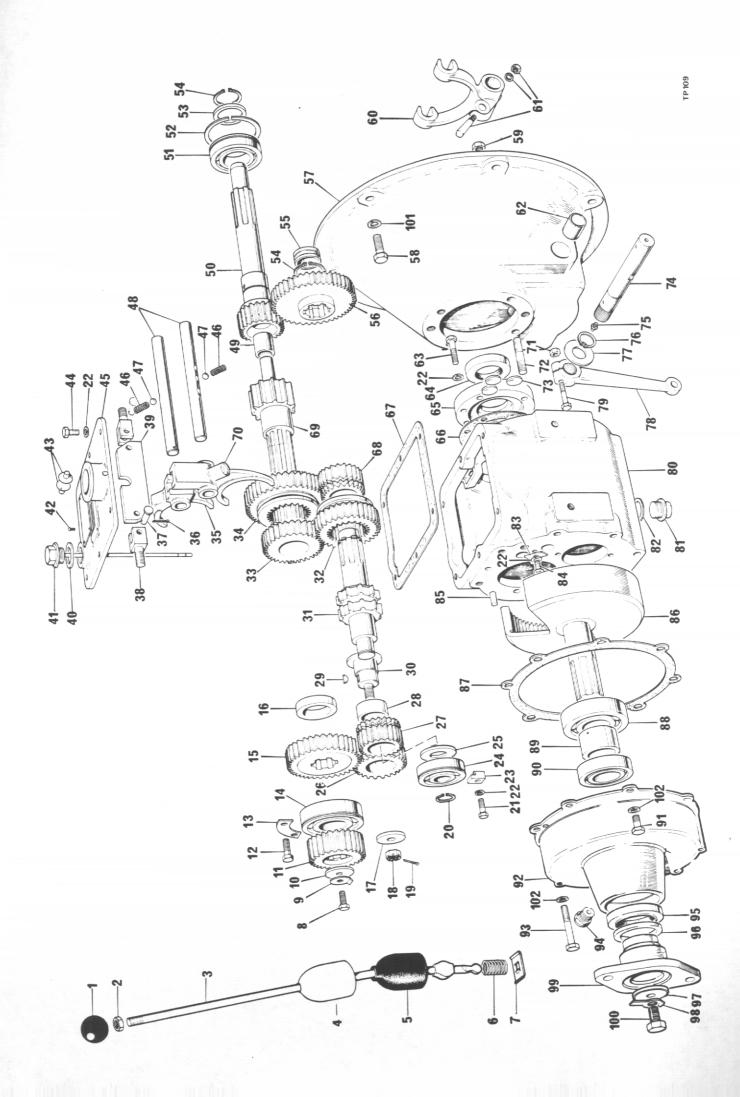
GEARBOX 40M/42 - NEWAGE 30106.A01

Item No.	Part No.	Description	Qty.
1	30101.A0201	Knob	
2	95S 03		1
3	30106.A0102		1
4	30101.A0203		1
5	30101.A0204	Cap - Gear Lever	1
6	30101.A0205		1
7	30101.A0206		1
8	28S.03E	Retaining Plate - Gear Lever	1
9	30190.A0101	Screw - Mainshaft Lock Washer - Tab	1
10	30190.A0101	Lock Washer - Tab Washer - Reduction Pinion	1
10	30190.A0102		1
12	28S.01B		1
13		Screw - Bearing Retainers	2
14	30190.A0104	Bearing Retainer - Small	1
15	30101.A0210 30101.A0211	Bearing - Mainshaft Rear	1
16	30101.A0212	Output Gear	1
17	30101.A0212	Spacer - Output Gear	1
18	1025.04	Washer - Reverse Pinion Gear	1
19	44S -02C	Nut - Reverse Spindle Split Pin	1
20	30101.A0215	Circlip	1
21	28S201D	Screw	2
22	675,101	Washer	A/R
23	30190 A0105	Clip, Layshaft Bearing	A/ K 2
24	30101.A0216	Layshaft Bearing	1
25	30101.A0217	Bearing Spacer	1
26	30101.A0218	Reverse Pinion	1
27	30101.A0219	Reverse Speed Gear	1
28	30101.A0220	Bush - Reverse Pinion	1
29	30101.A0221	Key, Reverse Pinion Shaft	1
30	30101.A0222	Shaft, - Reverse Pinion	1
31	30101.A0223	Layshaft	1
32	30101.A0224	2nd Speed Sliding Gear	1
33	30101.A0225	2nd Speed Gear	1
34	30101.A0226	lst Speed Gear	1
35	30101.A0227	Selector Fork 2nd & 3rd	1
36	44S.01C	Split Pin, Interlock	2
37	30101.A0228	Clevis Pin, Interlock	2
38	30101.A0229	Stud, Interlock	2
39	30101.A0230	Interlock Plate	1
40	42S 05	Seal, Dipstick	
41	30101.A0232	Dipstick	1
42	30101.A0233	Drive Screw	4
43	30101.A0234	Pad - Gear Lever	2
44	28S.01C	Screw - Top Cover	6
45	30101.A0235	Top Cover	1
46	30097.A0185	Detent Spring	
47	30101.A0236	Detent Ball	
48	30101.A0237	Selector Shaft	
49	30101.A0238	Bearing, Primary Shaft	1
50	30101.A0239	Primary Shaft	1

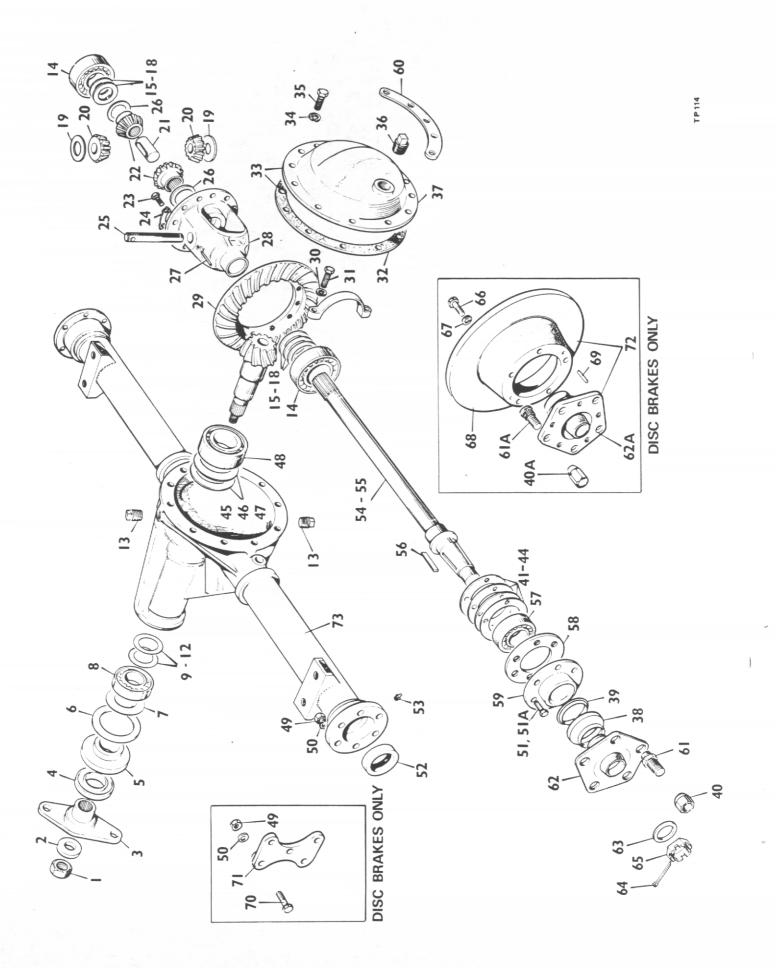
IMPORTANT: With effect from G/Box Batch No.B 1238 the following changes will take place:-Item Old Part No.

тсещ	Old Fart NO.	Description	New Part No.
41	30101.A0232	Dipstick	30218.A0223
31	30101.A0223	Layshaft	30101.A0266
55	30101.A0244	Bearing - Layshaft	30101.A0267
		0	002021110207

The layshaft will only be supplied complete with bearing as a replace-ment under part no. 30101.A0268 and will be totally interchangeable with current layshaft. (New Oil Capacity now 2 Litres previously .85 Litres)

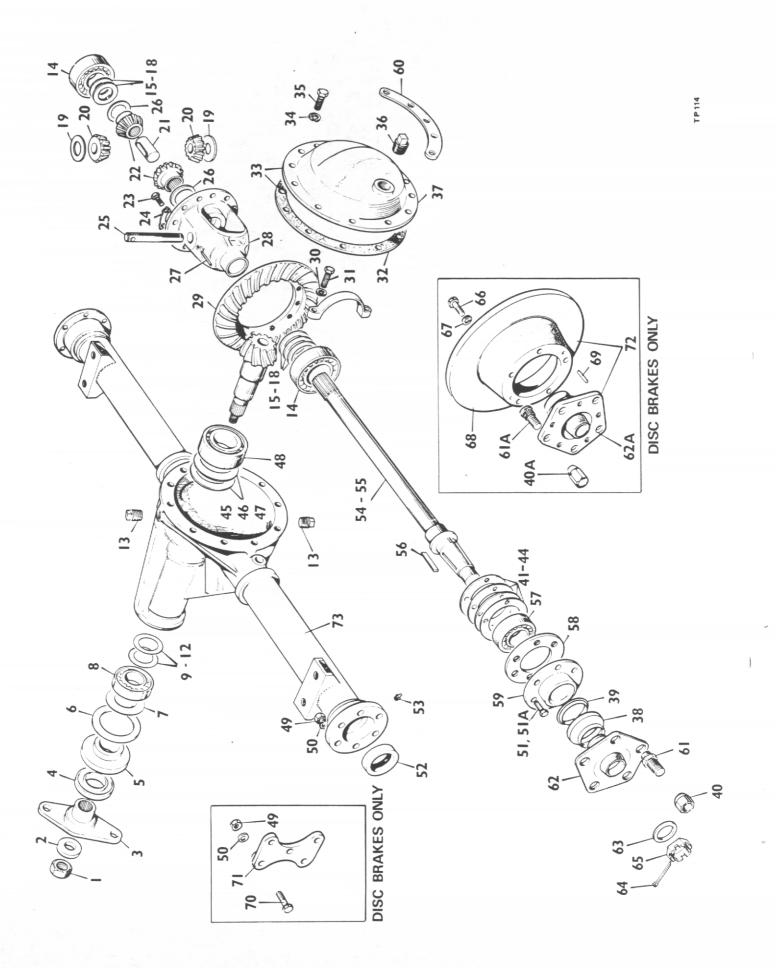


I	tem No.	Part No.	Description	Qty.
	51	30101.A0240	Input Bearing	1
	52	30101.A0241	Snap Ring	1
	53	30101.A0242	Bearing Spacer	-
	54	30101.A0243	Circlip	1
	55	30101.A0244	Bush - Layshaft	2
	56	30101.A0245	lst Reduction Gear	1
	57	30101.A0246	Clutch Housing	1
	58	3S.03E	Bolt - 3/8" B.S.F. x 1" (Petter) (G/Box - Eng.).	1
	90	69S.03E	Bolt - 3/8" U.N.C. x 1" (Lister) (""").	8
	59	9S.03	$M_{11} + 2/2^{11} \parallel N \equiv$	8
	60	30097.A0110	Nut 3/8" U.N.F. Clutch Release Fork	6
	61	30097.A0111	Cotter, Nut & Washer S/A	1
	62	30097.A0114	Bush, Cross Shaft	1
	63	6S.01B		2
	64	30101.A0247	Bolt, Front Cover	4
	65	30101.A0248	Oil Seal - Input Front Cover	1
	66	30101.A0249		1
	67	30101.A0250	Joint, Front Cover	1
	68	30101.A0219	Joint, Top Cover	1
	69	30190.A0106	Reverse Speed Gear	1
	70	30101.A0252	Mainshaft	1
	71	9S.01	Selector Fork 1st & Rev	1
	72	30101.A0253	Nut, Clutch Lever	1
	73	30101.A0254	Stud, Clutch Housing	6
	74	30101.A0255	Sealing Disc, Selector Shaft	3
	75	30103.A0102	Clutch Cross Shaft	1
	76	30101.A0256	Grease Nipple	2
	77	30097.A0133	Circlip	1
	78		Washer - Cross Shaft	1
	79	30097.A0109 6S.01C	Clutch Release Lever	1
	80	30101.A0262	Bolt - Clutch Lever	1
	81	30190.A0108	Casing	1
	82	42S.05	Drain Plug	1
	83	30101.A0259	Seal, Drain Plug	1
	84		Selector Locking Strip	1
	85	28S.01C	Setscrew	2
	86	30097.A0155 30190.A0110	Dowel	2
	87	30190.A0112	Internal Gear	1
	88	30190.A0112	Joint - Reduction Housing	1
	89	30101.A0260	Bearing - Internal Gear Front	1
	90	30190.A0113	Spacer	1
	91	28S.02D	Bearing - Internal Gear Rear	1
	92	30190.A0114	Screw - Hex. Hd.	5
	93	6S.02J	Reduction - Housing	1
	94	30097.A0171	Bolt - Hex. Hd.	1
	95		Breather	1
	96	30097.A0132	Oil Seal - Rear	1
	90	30101.A0265	Dust Shield	1
	97	30101.A0208	Washer - Coupling	1
	98	30101.A0207	Lock Washer	1
	100	30101.A0103	Coupling	1
		28S.05E	Screw - Coupling	1
	101 102	415.05	Spring Washer	8
	102	30143.A0111	Fibre Washer	1
	103	30143.A0101	Fibre Washer	1



DRIVE AXLE

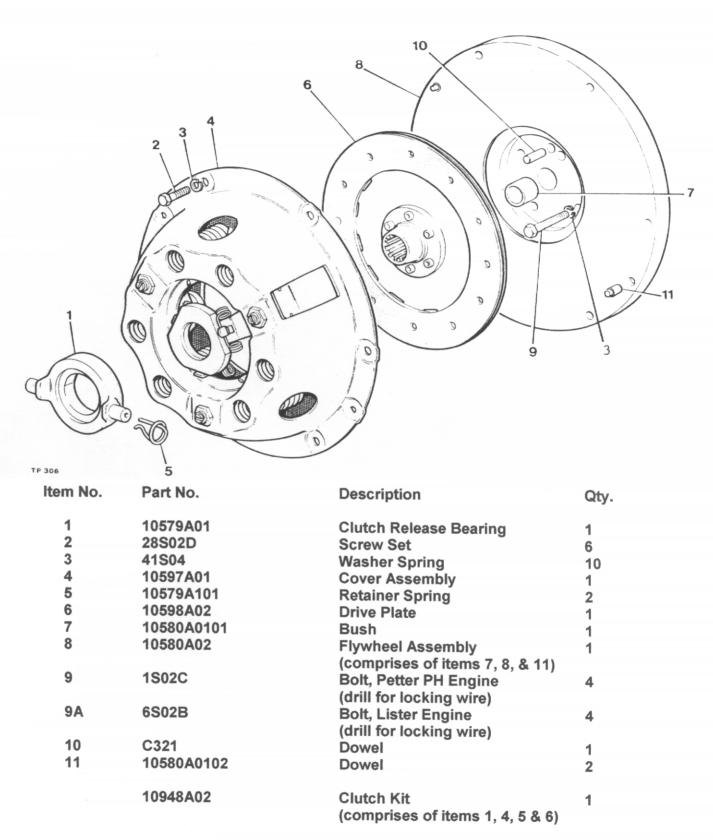
6HA-001-1274 Drive Axle Complete with diss brakes (1 per m/c) 1 12 LN-NF98 Pinion Nut 1 2 12W-24 Pinion Nut 1 3 3HA-102-10 Companion Flange Asembly. 1 4 2HA-021 Companion Flange Dust Shield 1 5 8HA-019-3 Pinion Oil Sal Gasket 1 6 2HA-020 Pinion Oil Sal Gasket 1 7 2HA-020 Pinion Bearing Adjusting Shim Outer.003". A/R 8 5HA-022 Pinion Bearing Adjusting Shim Outer.003". A/R 9 5HA-039 Pinion Bearing Adjusting Shim Outer.003". A/R 11 5HA-040 Pinion Bearing Adjusting Shim Outer.003". A/R 12 5HA-040 Pinion Bearing Adjusting Shim Outer.003". A/R 14 5HA-042 Pinion Bearing Adjusting Shim Outer.003". A/R 14 5HA-043 Differential Bearing Shim .005". A/R 15 6HA-0446 Differential Bearing Shim .005". A/R 16 5HA-0447 Differen	Item No.	Part No.	Description	Qty.
1 12 LN-NF9B Pinion Nut Pinion Nut Pinion Nut 3 3HA-102-10 Companion Flange Assembly. 1 4 2HA-021 Companion Flange Dust Shield 1 5 8HA-019-3 Pinion Oil Seal Gasket 1 6 2HA-020 Pinion Oil Singer 1 7 2HA-036 Pinion Oil Singer 1 8 5HA-039 Pinion Bearing Adjusting Shim Outer .003" A/R 10 5HA-040 Pinion Bearing Adjusting Shim Outer .003" A/R 11 5HA-041 Pinion Bearing Adjusting Shim Outer .003" A/R 12 5HA-042 Pinion Bearing Adjusting Shim Outer .003" A/R 13 HA-059 Filter and Drain Plug (each) 1 1 14 5HA-042 Differential Bearing Shim .005" A/R 15 5HA-045 Differential Bearing Shim .005" A/R 16 5HA-046 Differential Bearing Shim .005" A/R 17 5HA-045 Differential Bearing Shim .005" A/R 18 5HA-047 Differential Bearing Shim .030" A/R			Drive Axle Complete with drum brakes (1 per m/	c)
2 12W-24 Pinion Nut Washer %" (ai std. heavy pattern 1 3 3HA-102-10 Companion Flange Dust Shield 1 4 2HA-021 Pinion Oil Seal Gasket 1 6 2HA-036 Pinion Oil Seal Gasket 1 7 2HA-036 Pinion Oil Singer 1 8 5HA-022 Pinion Bearing Adjusting Shim Outer .005" A/R 10 5HA-040 Pinion Bearing Adjusting Shim Outer .005" A/R 11 5HA-040 Pinion Bearing Adjusting Shim Outer .005" A/R 12 5HA-042 Pinion Bearing Adjusting Shim Outer .005" A/R 13 HA-059 Filler and Drain Plug (each) 1 1 14 5HA-042 Differential Bearing Shim .003" A/R 15 5HA-044 Differential Bearing Shim .003" A/R 16 5HA-043 Differential Bearing Shim .010" A/R 17 5HA-044 Differential Pinion Mate Thrustwasher 2 20 5HA-0176-2 Differential Side Gaar 1 21 5HA-0176-1 Drive Gaar Stewe. 12 2	1		Pinion Nut	
3 3HA-102-10 Companion Flange Assembly. 1 4 2HA-021 Companion Flange Dust Shield 1 5 8HA-019-3 Pinion Oil Seal 1 7 2HA-036 Pinion Oil Seal Gasket 1 7 2HA-036 Pinion Oil Seal Gasket 1 8 5HA-039 Pinion Bearing Adjusting Shim Outer .003" A/R 9 5HA-042 Pinion Bearing Adjusting Shim Outer .005" A/R 10 5HA-042 Pinion Bearing Adjusting Shim Outer .003" A/R 13 HA-042 Pinion Bearing Adjusting Shim Outer .003" A/R 14 5HA-042 Pinion Bearing Adjusting Shim Outer .003" A/R 15 5HA-044 Differential Bearing Shim .03" A/R 16 5HA-047 Differential Bearing Shim .03" A/R 17 5HA-048 Differential Bearing Shim .03" A/R 18 5HA-049 Differential Bearing Shim .03" A/R 19 5HA-043 Differential Side Gear 2 20 5HA-007-2 Differential Side Gear 2 21 5HA-017 <th></th> <th></th> <th>Pinion Nut Washer 3/" dia std. heavy pattern</th> <th></th>			Pinion Nut Washer 3/" dia std. heavy pattern	
4 2HA-021 Companion Flange Dust Shield 1 5 8HA-019-3 Pinion Oil Seal Gasket 1 7 2HA-036 Pinion Oil Singer 1 8 5HA-022 Pinion Bearing Adjusting Shim Outer .005" A/R 10 5HA-023 Pinion Bearing Adjusting Shim Outer .005" A/R 11 5HA-040 Pinion Bearing Adjusting Shim Outer .005" A/R 12 5HA-042 Pinion Bearing Adjusting Shim Outer .005" A/R 13 HA-059 Filler and Drain Plug (each) 1 1 14 5HA-042 Differential Bearing Shim .005" A/R 16 5HA-044 Differential Bearing Shim .006" A/R 17 5HA-046 Differential Bearing Shim .006" A/R 18 5HA-047 Differential Bearing Shim .010" A/R 19 5HA-048 Differential Spacer 2 2 10 5HA-017 Differential Spacer 1 2 11 5HA-012 Differential Side Gear 2 2 <th>3</th> <th></th> <th>Companion Flange Assembly</th> <th></th>	3		Companion Flange Assembly	
b 8HA-019-3 Pinion Oil Seal 1 f 2HA-020 Pinion Oil Seal Gasket 1 7 2HA-036 Pinion Oil Seal Gasket 1 8 5HA-022 Pinion Bearing Adjusting Shim Outer .003" A/R 10 5HA-039 Pinion Bearing Adjusting Shim Outer .005" A/R 11 5HA-040 Pinion Bearing Adjusting Shim Outer .005" A/R 12 5HA-041 Pinion Bearing Adjusting Shim Outer .005" A/R 13 HA-059 Filler and Drain Plug (each) 1 14 5HA-044 Differential Bearing Shim .005" A/R 15 5HA-045 Differential Bearing Shim .030" A/R 16 5HA-047 Differential Bearing Shim .030" A/R 17 5HA-043 Differential Bearing Shim .030" A/R 18 5HA-047 Differential Side Gear 2 2 19 5HA-043 Differential Side Gear 2 2 14 5HA-017 Dirive Gear Tabwasher 1 2 15 5HA-017 Dirive Gear Tabwasher 1 2		2HA-021	Companion Flange Dust Shield	-
b 2HA-020 Prinion Oil Seal Gasket 1 7 2HA-036 Prinion Bearing Adjusting Shim Outer.005" A/R 9 5HA-039 Prinion Bearing Adjusting Shim Outer.005" A/R 10 5HA-040 Prinion Bearing Adjusting Shim Outer.005" A/R 11 5HA-041 Prinion Bearing Adjusting Shim Outer.005" A/R 12 5HA-042 Prinion Bearing Adjusting Shim Outer.005" A/R 14 5HA-042 Prinion Bearing Shim.003" A/R 15 5HA-046 Differential Bearing Shim.005" A/R 16 5HA-047 Differential Bearing Shim.005" A/R 17 5HA-048 Differential Bearing Shim.005" A/R 18 5HA-047 Differential Prinion Mate Thrustwasher 2 20 5HA-048 Differential Prinion Mate Thrustwasher 2 21 5HA-033-3 Axle Shaft Spacer 1 22 5HA-007-2 Dirive Gear Thrustwasher 2 23 5HA-013 Differential Side Gear 1 24			Pinion Oil Seal	
2HA-036 Pinion Bisting, Outer 1 9 5HA-039 Pinion Bearing, Adjusting, Shim, Outer, 003" A/R 10 5HA-040 Pinion Bearing, Adjusting, Shim, Outer, 003" A/R 11 5HA-041 Pinion Bearing, Adjusting, Shim, Outer, 010" A/R 12 5HA-042 Pinion Bearing, Adjusting, Shim, Outer, 030" A/R 13 HA-059 Filler and Drain Plug (each) 1 14 5HA-046 Differential Bearing, Shim, 003" A/R 15 5HA-046 Differential Bearing, Shim, 005" A/R 16 5HA-047 Differential Bearing, Shim, 030" A/R 18 5HA-048 Differential Bearing, Shim, 030" A/R 19 5HA-049 Differential Pinion Mate Thrustwasher 2 20 5HA-037 Differential Side Gear 2 21 5HA-049 Differential Pinion Mate Shaft 1 22 5HA-038 Differential Side Gear 1 23 5HA-047 Differential Side Gear 2 24 5HA-012 Differential Bearing Cap Dott 1 25 <t< th=""><th></th><th></th><th>Pinion Oil Seal Gasket</th><th></th></t<>			Pinion Oil Seal Gasket	
a bHA-022 Prinon Bearing Adjusting Shim Outer .003" A/R 10 bHA-040 Prinon Bearing Adjusting Shim Outer .003" A/R 11 bHA-041 Prinon Bearing Adjusting Shim Outer .003" A/R 12 bHA-042 Prinon Bearing Adjusting Shim Outer .003" A/R 13 HA-042 Prinon Bearing Adjusting Shim Outer .003" A/R 14 bHA-042 Prinon Bearing Adjusting Shim Outer .003" A/R 14 bHA-046 Differential Bearing Shim .005" A/R 16 bHA-047 Differential Bearing Shim .005" A/R 17 bHA-048 Differential Bearing Shim .005" A/R 18 bHA-049 Differential Prinon Mate Thrustwasher 2 20 bHA-037 Differential Side Gear 2 2 21 bHA-038-2 Differential Side Gear 1 2 22 bHA-012 Differential Side Gear 1 2 23 bHA-013 Differential Side Gear 1 2 24 bHA-038 Differ			Pinion Oil Slinger	1
10 5HA-040 Printon Bearing Adjusting Shim Outer .005" A/R 11 5HA-041 Printon Bearing Adjusting Shim Outer .010" A/R 12 5HA-042 Printon Bearing Adjusting Shim Outer .030" A/R 13 HA-059 Filler and Drain Plug (each) 1 14 5HA-042 Differential Bearing Shim .003" A/R 16 5HA-043 Differential Bearing Shim .003" A/R 17 5HA-044 Differential Bearing Shim .010" A/R 18 5HA-047 Differential Bearing Shim .010" A/R 19 5HA-048 Differential Bearing Shim .010" A/R 19 5HA-037 Differential Bearing Shim .030" A/R 20 5HA-037-2 Differential Side Gear 2 21 5HA-007-2 Differential Side Gear 2 23 5HA-012 Differential Pinion Mate Thrustwasher 1 26 5HA-013 Differential Bearing Cap Soringwasher ½" dia 4 27 5HA-015 Differential Bearing Cap Soringwasher ½" dia 4	-		Pinion Bearing, Outer	1
11 5HA-041 Printon Bearing Adjusting Shim Outer. 010" A/R 12 5HA-042 Printon Bearing Adjusting Shim Outer. 030" A/R 13 HA-059 Filler and Drain Plug (each) 1 14 5HA-046 Differential Bearing Shim. 003" A/R 15 5HA-046 Differential Bearing Shim. 003" A/R 16 5HA-046 Differential Bearing Shim. 003" A/R 17 5HA-048 Differential Bearing Shim. 003" A/R 18 5HA-049 Differential Plainon Mate Thrustwasher 2 20 5HA-008-1 Differential Side Gear 2 21 5HA-007-2 Differential Side Gear 1 22 5HA-012 Differential Side Gear 1 23 5HA-013 Differential Side Gear Thrustwasher 2 24 5HA-013 Differential Side Gear Thrustwasher 2 27 5HA-013 Differential Bearing Cap Singwasher ½" dia 4 38 5HA-026 Gear Carrier Cover Gasket 1 39			Pinion Bearing Adjusting Shim Outer .003"	A/R
12 5HA-042 Finion Bearing Adjusting Shim Outer .030" A/R 13 HA-059 Filler and Drain Plug (each) 1 14 5HA-024/1 Differential Bearing Shim .003" A/R 16 5HA-046 Differential Bearing Shim .005" A/R 17 5HA-047 Differential Bearing Shim .005" A/R 18 5HA-048 Differential Bearing Shim .006" A/R 19 5HA-049 Differential Bearing Shim .006" A/R 19 5HA-049 Differential Bearing Shim .006" A/R 10 5HA-037 Differential Spacer 2 2 20 5HA-033-3 Axle Shaft Spacer 1 2 21 5HA-042 Differential Side Gear 2 2 23 5HA-074-1 Drive Gear Screw 1 2 24 5HA-012 Differential Side Gear 1 2 25 5HA-013 Differential Bearing Cap Springwasher 2 2 36 5HA-026 Differential Bearing Cap Springwasher %" dia 4 31 8 B-NC-36 Differential Bearing Cap			Pinion Bearing Adjusting Shim Outer .005"	
13 HA-059 Filler and Drain Plug (each) 1 14 5HA-047 Differential Bearing Shim. 003" A/R 15 5HA-046 Differential Bearing Shim. 003" A/R 16 5HA-047 Differential Bearing Shim. 003" A/R 17 5HA-048 Differential Bearing Shim. 010" A/R 18 5HA-049 Differential Bearing Shim. 030" A/R 19 5HA-037 Differential Pinion Mate 2 20 5HA-007D-2 Differential Side Gear 2 21 5HA-07D-2 Drive Gear Screw 12 23 5HA-012 Differential Side Gear 2 24 5HA-012 Differential Pinion Mate Shaft 1 26 5HA-013 Differential Case 1 27 5HA-013 Differential Bearing Cap Soringwasher %" dia 4 30 8 LW-115 Dirferential Bearing Cap Soringwasher %" dia 4 31 8 B-NC-36 Differential Bearing Cap Soringwasher %" dia 4 35 6HA-026 Gear Carrier Cover Assembly Complete 1 36 10			Pinion Bearing Adjusting Shim Outer .010"	
14 5HA-024/1 Differential Bearing Stim. 003"			Filler and Drain Plur (ageb)	
15 5HA-Q46 Differential Bearing Shim .003". A/R 16 5HA-Q47 Differential Bearing Shim .003". A/R 17 5HA-Q48 Differential Bearing Shim .030". A/R 18 5HA-Q49 Differential Bearing Shim .030". A/R 19 5HA-Q49 Differential Pinion Mate Thrustwasher 2 20 5HA-Q37 Differential Side Gear 2 21 5HA-033-3 Axle Shaft Spacer 1 22 5HA-075-2 Drive Gear Screw 12 23 5HA-074-1 Drive Gear Tabwasher 2 24 5HA-012 Differential Side Gear Thrustwasher 2 27 5HA-013 Differential Side Gear Thrustwasher 2 27 5HA-015 Differential Bearing Cap Bolt 1 28 5HA-006 Differential Bearing Cap Bolt 4 31 8 B-NC-36 Differential Bearing Cap Bolt 4 32 5HA-026 Gear Carrier Cover Gasket 1 33 5HA-064-17 Gear Carrier Cover Assembly 1 34 6LW-105 Cover Screw			Differential Bearing	
16 SHA-049 Differential Bearing Shim .030". A/R 19 SHA-037 Differential Pinion Mate Thrustwasher 2 20 SHA-008-1 Differential Pinion Mate Thrustwasher 2 21 SHA-007-2 Differential Side Gear 2 23 SHA-007-2 Differential Side Gear 2 24 SHA-075-2 Drive Gear Tabwasher 6 25 SHA-074-1 Drive Gear Tabwasher 6 26 SHA-012 Differential Pinion Mate Shaft 1 26 SHA-038 Differential Pinion Assembly Complet 1 27 SHA-013 Differential Bearing Cap Springwasher ½" dia 4 30 8 LW-115 Differential Bearing Cap Bolt 4 31 8 B-NC-36 Differential Bearing Cap Bolt 4 32 SHA-064-17 Gear Carrier Cover Assembly 1 33 SHA-030-4 Shrouw 10 36 B-NC10 Cover Screw 10 36 SHA-032-14 Seal 2 39 SHA-032-3 Axle Shaft Bearing Shim .003" A/R	15		Differential Bearing Shim 003"	
16 SHA-049 Differential Bearing Shim .030". A/R 19 SHA-037 Differential Pinion Mate Thrustwasher 2 20 SHA-008-1 Differential Pinion Mate Thrustwasher 2 21 SHA-007-2 Differential Side Gear 2 23 SHA-007-2 Differential Side Gear 2 24 SHA-075-2 Drive Gear Tabwasher 6 25 SHA-074-1 Drive Gear Tabwasher 6 26 SHA-012 Differential Pinion Mate Shaft 1 26 SHA-038 Differential Pinion Assembly Complet 1 27 SHA-013 Differential Bearing Cap Springwasher ½" dia 4 30 8 LW-115 Differential Bearing Cap Bolt 4 31 8 B-NC-36 Differential Bearing Cap Bolt 4 32 SHA-064-17 Gear Carrier Cover Assembly 1 33 SHA-030-4 Shrouw 10 36 B-NC10 Cover Screw 10 36 SHA-032-14 Seal 2 39 SHA-032-3 Axle Shaft Bearing Shim .003" A/R	16		Differential Bearing Shim .005"	
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47 5HA-045 Pinion Adjusting Shim, Inner .010" A/R 48 5HA-023 Pinion Bearing Inner. 1 49 6N-NF5 Bearing Retainer Nut 3/8" UNF. 12 50 6W-12 Spring Washer 12 51 6B-NF 18/B Bearing retainer bolt (drum brakes only) 12 51A 6B NF 21 Bearing retainer bolt (disc brakes only) 6 52 5HA-027 Axle Shaft Oil Seal 2 53 5HA-056-1 Axle Shaft Bearing Grease Nipple 2 54 5HA-005-51 Axle Shaft RH. (complete with Nut) 1 55 5HA-005-51 Axle Shaft Key 2 57 5HA-025 Axle Shaft Bearing 2 57 5HA-025 Axle Shaft Bearing 2 58 5HA-035-5 Axle Shaft Bearing Retainer 2 59 5HA-057-3 Hub oil seal assembly 2	46	5HA-044	Dinion Adjusting Ching Laws 005/	
48 5HA-023 Pinion Bearing Inner. 1 49 6N-NF5 Bearing Retainer Nut 3/8" UNF. 12 50 6W-12 Spring Washer. 12 51 6B-NF 18/B Bearing retainer bolt (drum brakes only) 12 51A 6B NF 21 Bearing retainer bolt (disc brakes only) 12 52 5HA-027 Axle Shaft Oil Seal 2 53 5HA-056-1 Axle Shaft Bearing Grease Nipple 2 54 5HA-005-51 Axle Shaft RH. (complete with Nut) 1 55 5HA-005-51 Axle Shaft Key 2 57 5HA-029 Axle Shaft Bearing 2 57 5HA-025 Axle Shaft Bearing 2 58 5HA-035-5 Axle Shaft Bearing Retainer 2 59 5HA-057-3 Hub oil seal assembly 2	47	5HA-045		
49 6N-NF5 Bearing Retainer Nut 3/8" UNF 12 50 6W-12 Spring Washer 12 51 6B-NF 18/B Bearing retainer bolt (drum brakes only) 12 51A 6B NF 21 Bearing retainer bolt (disc brakes only) 12 52 5HA-027 Axle Shaft Oil Seal 2 53 5HA-056-1 Axle Shaft Bearing Grease Nipple 2 54 5HA-005-51 Axle Shaft RH. (complete with Nut) 1 55 5HA-005-51 Axle Shaft Key 2 56 5HA-029 Axle Shaft Key 2 57 5HA-025 Axle Shaft Bearing 2 58 5HA-035-5 Axle Shaft Bearing Retainer 2 59 5HA-057-3 Hub oil seal assembly 2			Pinion Bearing Inner.	
516B-NF 18/BBearing retainer bolt (drum brakes only)1251A6B NF 21Bearing retainer bolt (disc brakes only)6525HA-027Axle Shaft Oil Seal2535HA-056-1Axle Shaft Bearing Grease Nipple2545HA-005-51Axle Shaft RH. (complete with Nut)1555HA-005-51Axle Shaft Key2565HA-029Axle Shaft Key2575HA-025Axle Shaft Bearing2585HA-035-5Axle Shaft Bearing Retainer2595HA-057-3Hub oil seal assembly2			Bearing Retainer Nut 3/8" UNF	12
51A6B NF 21Bearing retainer bolt (disc brakes only)12525HA-027Axle Shaft Oil Seal2535HA-056-1Axle Shaft Bearing Grease Nipple2545HA-005-51Axle Shaft RH. (complete with Nut)1555HA-005-51Axle Shaft Key1565HA-029Axle Shaft Key2575HA-025Axle Shaft Bearing2585HA-035-5Axle Shaft Bearing Retainer2595HA-057-3Hub oil seal assembly2			Spring Washer	12
52 5HA-027 Axle Shaft Oil Seal 2 53 5HA-056-1 Axle Shaft Bearing Grease Nipple 2 54 5HA-005-51 Axle Shaft RH. (complete with Nut) 1 55 5HA-005-51 Axle Shaft LH. (complete with Nut) 1 56 5HA-029 Axle Shaft Bearing 2 57 5HA-025 Axle Shaft Bearing 2 58 5HA-035-5 Axle Shaft Bearing Retainer 2 59 5HA-057-3 Hub oil seal assembly 2			Bearing retainer bolt (drum brakes only)	
53 5HA-056-1 Axle Shaft Bearing Grease Nipple 2 54 5HA-005-51 Axle Shaft RH. (complete with Nut) 1 55 5HA-005-51 Axle Shaft LH. (complete with Nut) 1 56 5HA-029 Axle Shaft Key 2 57 5HA-025 Axle Shaft Bearing 2 58 5HA-035-5 Axle Shaft Bearing Retainer 2 59 5HA-057-3 Hub oil seal assembly 2			Bearing retainer bolt (disc brakes only)	
54 5HA-005-51 Axle Shaft RH. (complete with Nut) 1 55 5HA-005-51 Axle Shaft LH. (complete with Nut) 1 56 5HA-029 Axle Shaft Key 2 57 5HA-025 Axle Shaft Bearing 2 58 5HA-035-5 Axle Shaft Bearing Retainer 2 59 5HA-057-3 Hub oil seal assembly 2			Ayla Shaft Baaring Grasse Nimple	
55 5HA-005-51 Axle Shaft LH. (complete with Nut) 1 56 5HA-029 Axle Shaft Key 2 57 5HA-025 Axle Shaft Bearing 2 58 5HA-035-5 Axle Shaft Bearing Retainer 2 59 5HA-057-3 Hub oil seal assembly 2			Axle Shaft BH (complete with Nut)	
56 5HA-029 Axle Shaft Key 2 57 5HA-025 Axle Shaft Bearing 2 58 5HA-035-5 Axle Shaft Bearing Retainer 2 59 5HA-057-3 Hub oil seal assembly 2			Axle Shaft LH. (complete with Nut)	
57 5HA-025 Axle Shaft Bearing 2 58 5HA-035-5 Axle Shaft Bearing Retainer 2 59 5HA-057-3 Hub oil seal assembly 2	56			
58 5HA-035-5 Axle Shaft Bearing Retainer 2 59 5HA-057-3 Hub oil seal assembly 2			Axle Shaft Bearing	
59 5HA-057-3 Hub oil seal assembly			Axle Shaft Bearing Retainer	2
00 4-35-235 Differential cover support			Hub oil seal assembly	
	60	4-35-235	Differential cover support	1



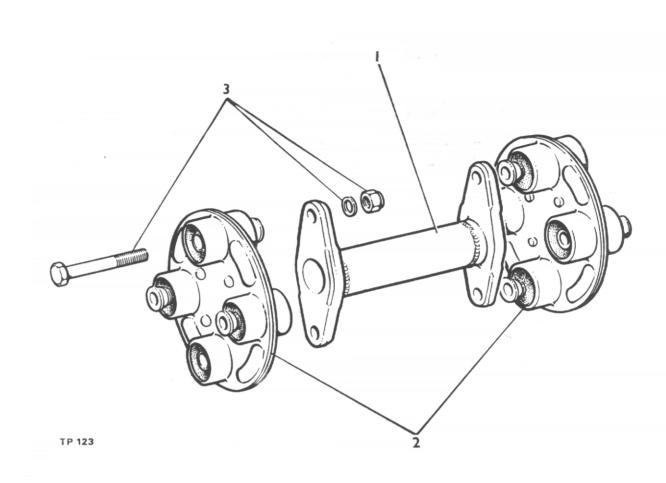
DRIVE AXLE (Cont'd.)

Item No.	Part No.	Description	Qty.
61 62 62A 63 64 65 66 67 68 69	5HA-055-6 5HA-055-17 5HA-028-37 5HA-028-56 18W-32 12SP-18 18-SN-NF-12 6B-NF-21 6LW-105 10HA-136 6D-16	Wheel stud (drum brakes only).Wheel stud (disc brakes only).Wheel hub complete.Wheel hub c/w studs (Disc brakes only).Axle shaft washer.Axle shaft cotter 3/16" x 2".Axle shaft Nut.Brake disc bolt (disc brakes only).Brake disc bolt lockwasher (disc brakes only).Brake disc disc brakes only).Brake disc disc brakes only).Brake disc dowel (disc brakes only).Brake disc dowel (disc brakes only).	10 10 2 2 2 2 2 2 10 10 2 4
70 71 72	6B-NF24A 5HA-137 5HA-028-52 5HA-082-5	Caliper bracket bolt (disc brakes only) Caliper bracket (disc brakes only) Hub & Disc Assembly (disc brakes only) Differential case Assembly (comprising items	6 2 2
73	5HA-101-73	19, 20, 21, 22, 25, 26, 27 & 28) Service Carrier & Tube Assembly	1

FLYWHEEL AND CLUTCH ASSEMBLY



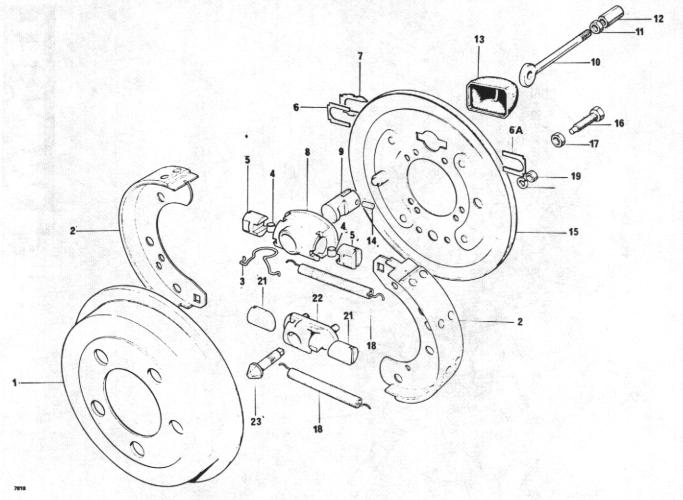
It is recommended that instead of drilling the head of the bolts (item 9) for locking wire that one of each of tabwashers part no's 10531A02 and 10531A03 are used to prevent the bolts working loose.



PROPSHAFT

Item No.	Part No.	Description	Qty.
1	79834	Prop shaft assembly complete	1
1A	79835	Prop shaft tube	1
2	10325A01	Coupling	2
3	10326A01	Coupling bolt, washer and nut	8

Item 3 consists of bolt 8S05L, flat washer 267S19 and binx nut 61S05

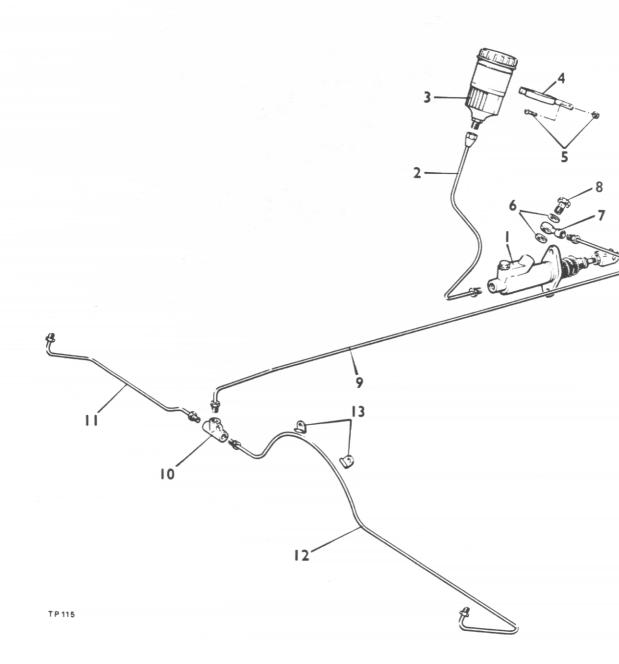


Item	Part No.
1	30088.A0128
2	20298.A0101
3	20298.A0102
4	20298.A0103
5	20298.A0104
6	20298.A0105
6A	20298.A0106
7	20298.A0107
8	20298.A0108
9	20298.A0109
10	20298.A0110
11	20298.A0111
12	20298.A0112
13	20298.A0113
14	20298.A0114
15	20298.A0115
16	1S.02C
17	1S.03
18	20298.A0116
19	20298.A0117
20	20298.A0118
21	20298.A0119
22	20298.A0120
23	20298.A0121
24	20298.A0122
25	20298.A0123
26	20298,A0124

Description

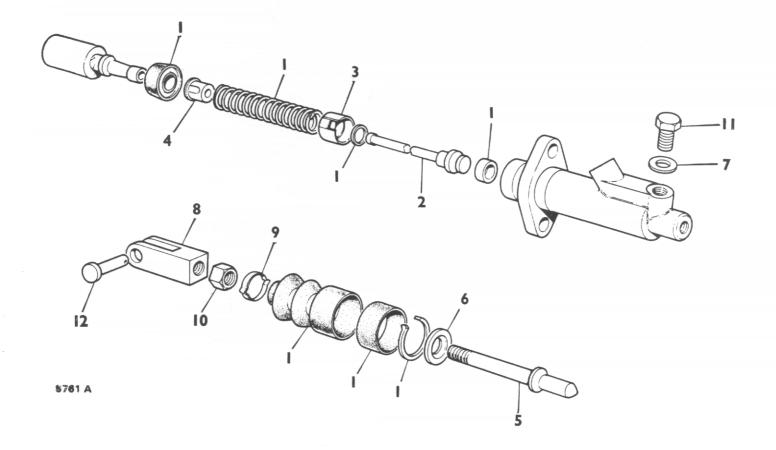
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Brake Drum]	L
Lined Shoe 2	2
Spring 1	
	2
	2
Plate 1	
Plate 1	
Locking Plate 1	
Expander Housing 1	
Plunger 1	
Drawlink 1	5.0
Locknut 1	Ē
Barrel Nut 1	
Dust Cover 1	
Pin 1	Ľ
Brake Back Plate 1	20
Setscrew 5/16" BSF 2	
Nut 5/16" BSF 2	_
Spring 2	-
Nut	
Washer 2	
Tappet Adjuster 2	
Adjuster Housing 1	
Wedge	
Service Kit (Adjuster) (N.I.) A/	
Adjuster Assy. (Compr: 19-25) A/	
Expr. Assy. (Compr: items	
3,4,5,8,9,10,11,12,& 14 A/	'R



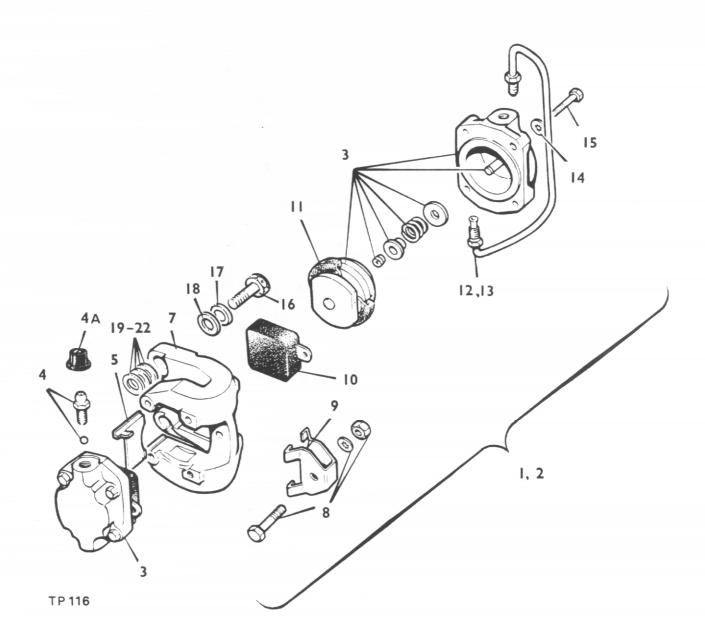
BRAKE PIPES AND FITTINGS

Item No.	Part No.	Description	Qty
1 2 3 4 5 6 7 8 9 10 11 12 13	64067970 DM 89–1 64047211 64477544 378700 64474287 64473063 DM78-3 64474341 DM78-2 DM78-1 4S132	Master Cylinder (complete) . Pipe ¼'' dia x 21'' long (master cylinder to reservoir) . Reservoir . Reservoir clip . Screw 2BA x ½'' long & locknut . Copper washer . Banjo . Banjo Bolt . Pipe 3/16'' dia x 43'' long (master cylinder to tee) . Tee piece . Pipe 3/16'' dia x 21'' long (tee to RH brake caliper) . Pipe 3/16'' dia x 38'' long (tee to LH brake caliper) . Pipe 3/16'' dia x 38'' long (tee to LH brake caliper) . Clip .	1 1 1 2 2 1 1 1 1 1
			-



MASTER CYLINDER ASSEMBLY

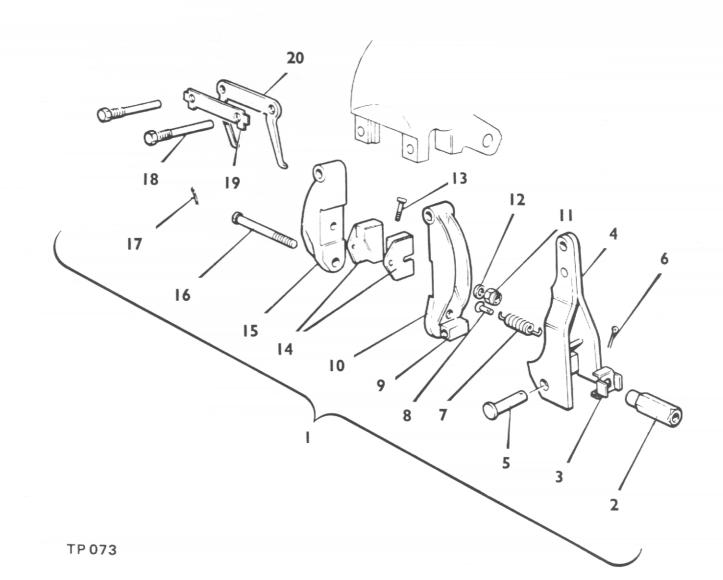
Item No.	Part No.	Description	Qty.
1	64067970	Master Cylinder (Complete)	1
2	SP 1996/2 378641	Seal Kit	1
3 4	318001 64673391	Valve Spacer	1
5 6	351257 W 378242	Push Rod	1
7	378700	Retaining Washer	1
8 9	64671286 378312	Clevis	1
10 11	64100052 64110348	Locknut	1
12	C174 Y	Plug	1



BRAKE CALIPER ASSEMBLY

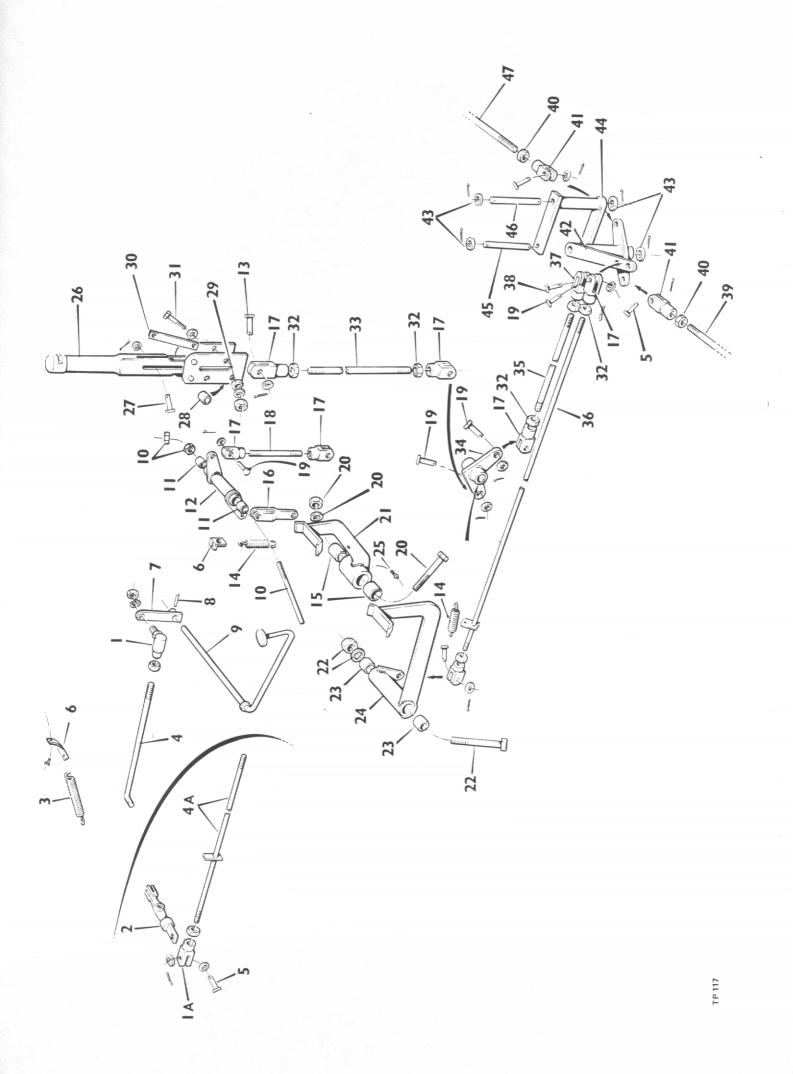
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Item No.	Part No.	Description	Qty
1 2 3 4 4 5 6 7 8 9	CB 90262 CB 90263 VBO 5505 VBO 8378 CBO 849 VBO 5133 CB 60253 64033114 VBO 8491 VBO 5123	Capliper Assembly Complete (RH)	1 2 1 1 1 1 1 1
10	VBO 8360Y	Friction Pad Complete (Set of 4) <th< td=""><td>1 set</td></th<>	1 set
11	VBO 8210A		2
12	VBO 3927	Bridge Pipe Assembly (LH)	1
13	VBO 3926		1
14	VBO 6101L		8
15	VBO 5100	Bolt, Retaining (Cylinder)	8
16	7BNF22B		4
17	7W16		4
18 19 20	7W14 5HA138 5HA139	Washer . <td>A /D</td>	A /D
21	5HA140	Shim .010''	A/R
22	5HA141		A/R



HANDBRAKE ASSEMBLY

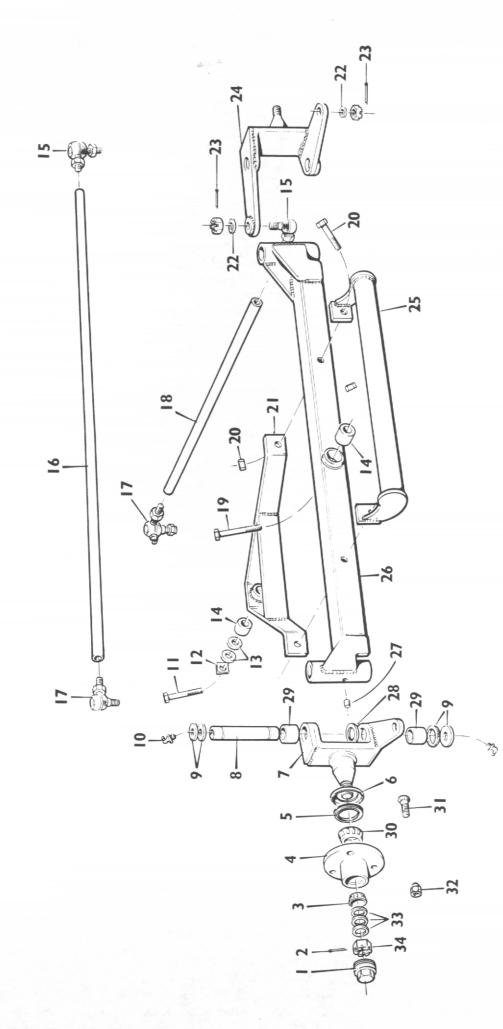
Item No.	Part No.	Description	Qty
1	CB 90256 CB 90257	Handbrake Assembly complete RH	1
2	CB 20258	Handbrake Assembly complete LH . Adjustment Nut	1
3	VBO 8307	Friction Spring	1
4	CB 20562	Lever Assembly	1
5	VBO 8315	Hinge Pin	1
6	VBO 6135 D	Split Pin	1
7	VBO 7329	Return Spring	1
8	VBO 7330	Spring Anchor .	1
9	VBO 8308	Pivot Seat	1
10	CB 60249 8308	Pad Carrier Assembly Inner Complete with Pivot Seat .	1
11	VBO 6050	Nut 2 B.A.	2
12	VBO 6101F	Washer	2
13	VBO 4124	Bolt	2
14	CB 20311Y	Friction Pad	2
15	VBM 4573	Pad Carrier Outer	1
16	CB 20289	Bolt	1
17	VBO 6158G	Split Pin	1
18	VBO 4190	Bolt	2
19	VBO 4226	Tab Washer	1
20	VBM 4635/1	Retraction Plate	1



PEDALS AND CONTROLS

Item No.	Part No.	Description	Qty
1	C160B	Accelerator Rod Ball End (PETTER)	1
1A	C174D	Accelerator Rod Fork End (LISTER)	1
2	CT194		
3	C173D	Accelerator Lever Engine (LISTER)	1
		Accelerator Rod Return Spring	1
4	C299	Accelerator Rod (PETTER).	1
4A	C240	Accelerator Rod (LISTER)	1
5	C174Y	Clevis Pin	5
6	C163	Spring Anchor	2
7	C129	Accelerator Lever	1
8	C129-A	Tension Pin 3/16" dia x 1¼" long	1
9	C137	Accelerator Pedal (PETTER)	1
9A	CT.137	Accelerator Pedal (LISTER)	1
10		Clutch Transfer Lever Pivot Pin & Nuts	1
. 11	WB0808	Clutch Transfer Lever Bush	2
12	C121	Clutch Transfer Lever	1
13	708-C-6942	Clevis Pin	1
14	C173-B	Clutch & Brake Return Spring	2
15	WB1010	Clutch Pedal Bush	2
16	C127	Clutch Connecting Fork	1
17	C174-A		1
17	CITTA	Fork End 3/8" BSF (Drum) -Qty 5 when disc brakes fitted	7
18	C184	Clutch Adjusting Rod 3/8" BSF x 2 ³ / ₄ " long	1
19	C174X	Clevis Pin 3/8''	
20	C126A	Clutch Pedal Bolt & Nut	1
21	C126	Clutch Pedal	
22	C122A	Footbrake Pedal Bolt & Nut	1
23	WB1212	Footbrake Pedal Bush.	
24	C122	Footbrake Pedal (Drum)	
24A	C258	Footbrake Pedal (Disc)	
25	TS	Grease Nipple	
26	715-C-11605	Handbrake Assembly	
27	715-C-11527	Clevis Pin	
28	823-C-8570	Handbrake Spacer	2
29	C179	Handbrake Mounting Washer	
30	181 B		3
31	101 B		1
32		Bolt 3/8" BSF x 2½" long & Nut	2
33	F525	Locknut 3/8'' BSF	
33		Handbrake Rod 3/8" BSF x 14½" long	
34	2ST 53	Bell Crank Lever	1
	2ST 73	Handbrake Rod 3/8" BSF x 3114" long (Drum)	
35A	2ST 105	Handbrake Rod $3/8''$ BSF x $34\frac{1}{2}''$ long (Disc)	
36	LT277B	Footbrake Rod 3/8" BSF x 46" long (Drum)	
37	C174B	Slotted Fork End 3/8" BSF (Drum)	
37A	C174A	Fork End 3/8" BSF (Disc)	
38	C174XL	Clevis Pin 3/8" dia (Drum)	
38A	C174X	Clevis Pin 3/8" dia (Disc)	
39	C171A	Brake Rod ¼'' UNF x 11¼'' long (Drum)	
39A	2ST 106	Brake Rod ¼" UNF x 9¾" long (Disc)	1
40		Locknut ¼" UNF	
41	C174C	Fork End ¼'' UNF	4
42	2ST 54	Compensator Arm (Drum)	
42A	2ST 103	Compensator Arm (Disc)	1
43		Flat Washer ½" dia	4
44	2ST 55	Compensator Link Assembly (Drum)	1
44A	2ST 104	Compensator Link Assembly (Disc)	1
45		Bolt 1/2" BSF x 5" long & Nut	
46		Bolt ½" BSF x 5½" long & Nut	
47	C218-2	Brake Rod ¼" UNF x 28" long (Drum)	
47A	2ST 107	Brake Rod ¼" UNF x 27" long (Disc)	1

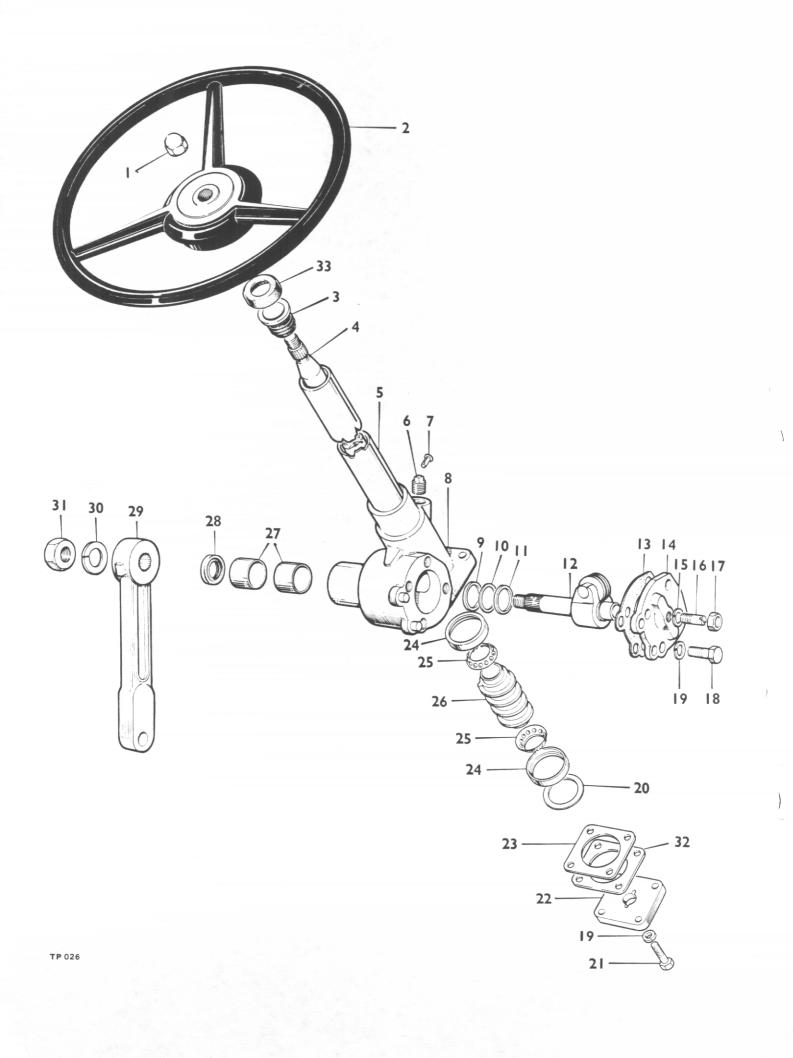
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TP 118

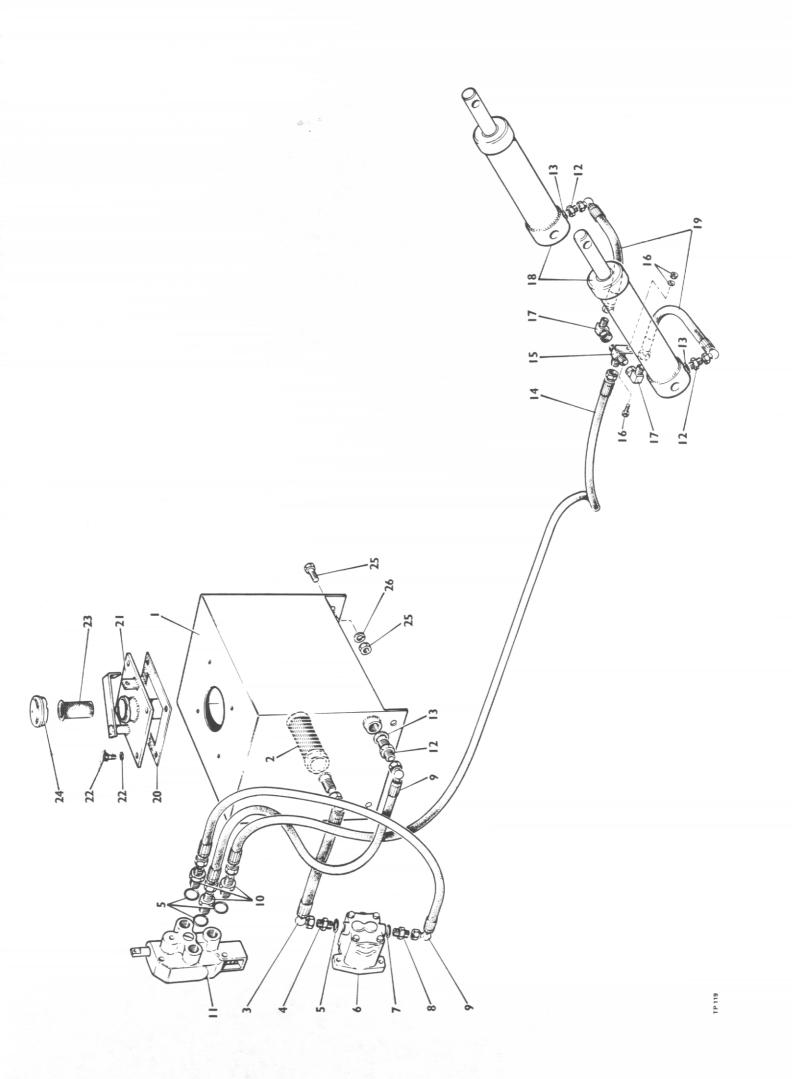
STEERING ASSEMBLY

Item No.	Part No.	Description	Qty
1 2	C186-A	Hub Cap	2
3	K09074	Hub Split Pin 3/32" dia x 1" longHub Bearing Outer	2 2
4	C186	Hub Assembly Complete (including items 1,3,5,6,29,	2
		31 & 32	2
5	C186 C	Hub Bearing Oil Seal	2
6	EC2752	Dust Cover	2
7	L267-N	Stub Axle Assembly & Nut L.H	1
8	L264	King Pin	2
9	C180-A-B	King Pin Washer	4
10	T90	Grease Nipple 90 ⁰ 1/8" BSP	4
11	C103 A	Stabiliser bolt 5/8" BSF x 4½" long & Nut	1
12	C162	Stabiliser Washer Tapered 6½°	1
13 14	E0125	Stabiliser Bolt Washer 7/8" dia	2
14	E2135	Steering Axle & Stabiliser Bush	2
16	C159/RH	Steering Ball Joint R.H.	2
17	C159 A C159-LH	Track Rod Intermediate	1
18	C159-LH C159-B	Steering Ball Joint L.H	2
19	C107-A	Drag Link Intermediate	1
20	C107-A	Steering Axle Bolt 5/8" BSF x 3½" long & Nut	1
20	C103	Bumper to Axle Bolt 5/8" BSF x 3½" long & Nut	2 1
22	0105	Steering Axle Stabiliser	2
23		Drag Link & Track Rod Split Pin 1/8" dia x 1" long	4
24	C226	Stub Axle Assembly & Nut R.H.	4
25	C113	Bumper	1
26	C225	Steering Axle Beam	1
27	C111-A	King Pin Retaining Screw 7/16'' whit x 7/16'' long.	2
28	C175	Thrust Washer	2
29	C190	King Pin Bush	4
30	K14138-1	Hub Bearing Inner	2
31	0156	Wheel Stud	6
- 32	C177	Wheel Nut	6
33		Hub Washer 5/8'' dia. Bright	A/R
34		Hub Nut 5/8" BSF Slotted	2



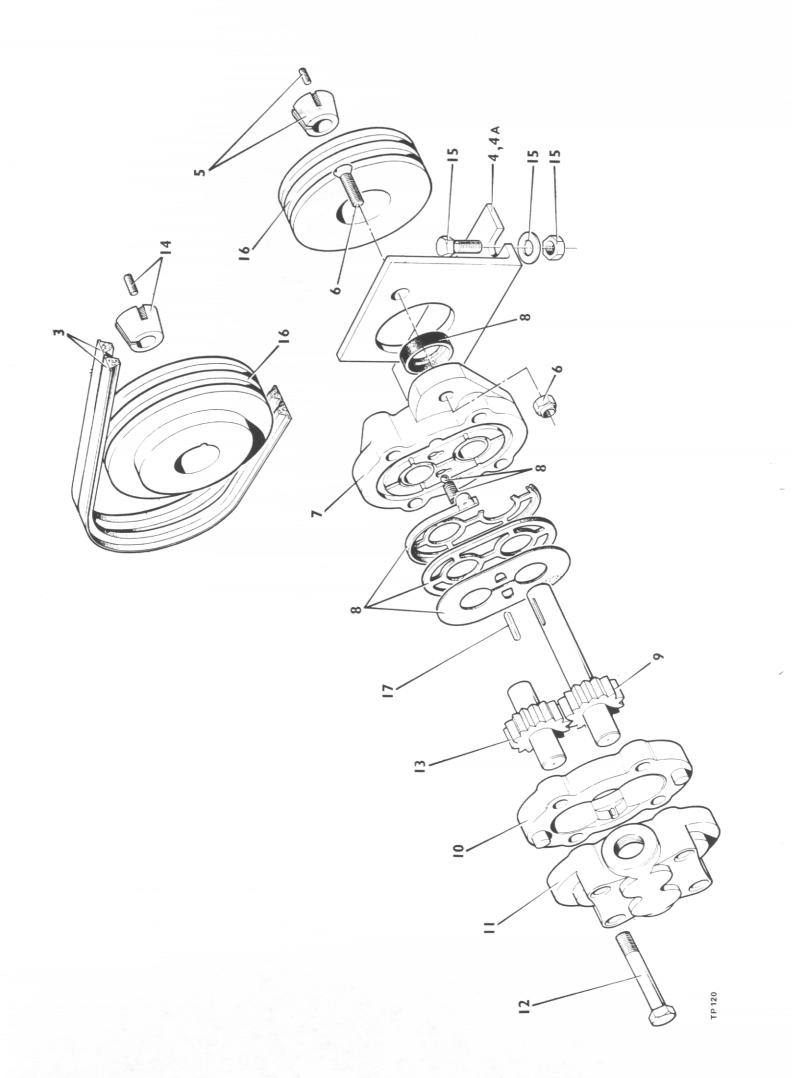
STEERING GEAR (CAM AND ROLLER TYPE)

Item No.	Part No.	Description	Qty.
	MGA 34849 🗖	Steering column assy. complete less items, 1,2 & 29	1
1	C 304	Steering wheel nut	1
2	347 K	Steering wheel	1
3	PA3904A	Column top bush	1
4	P5244/30"	Inner shaft	1
5	P3911/24''	Outer tube	1
6	S 9033	Oil plug	1
7	S 9166	Pin	1
8	PA4426	Steering box c/w item 14	1
9	P4151	Thrust washer	2
10	P 3308	Shim	
11	P 4150	Thrust washer	2
12	PA5229/4¼"	Rocker shaft c/w roller	1
13	P3306A	Cover plate gasket	
14	PA4257	Cover plate and bush	A/n 1
15	S 999	Spring washer	1
16	P 4222	Adjuster screw	1
17	P 4221	Nut	1
18	S 9240	Setscrew	4
19	S 902	Spring washer	8
20	P3342	Washer	0
21	S 9300	Setscrew	4
22	P 3907	Bottom cap	1
23	P 3301/.005"	Shim	
24	P 3341	Outer race	2
25	PA2733	Cage and balls	2
26	P 3340	Cam	1
27	P 3309	Bush	2
28	S 9242	Oil seal	2
29	M 29629	Drop arm	1
30	S 955	Spring washer	1
31	S 9332	Nut	1
32	P 3301G	Bottom cap liner	2
33	M33418	Inner column shroud	2
			1



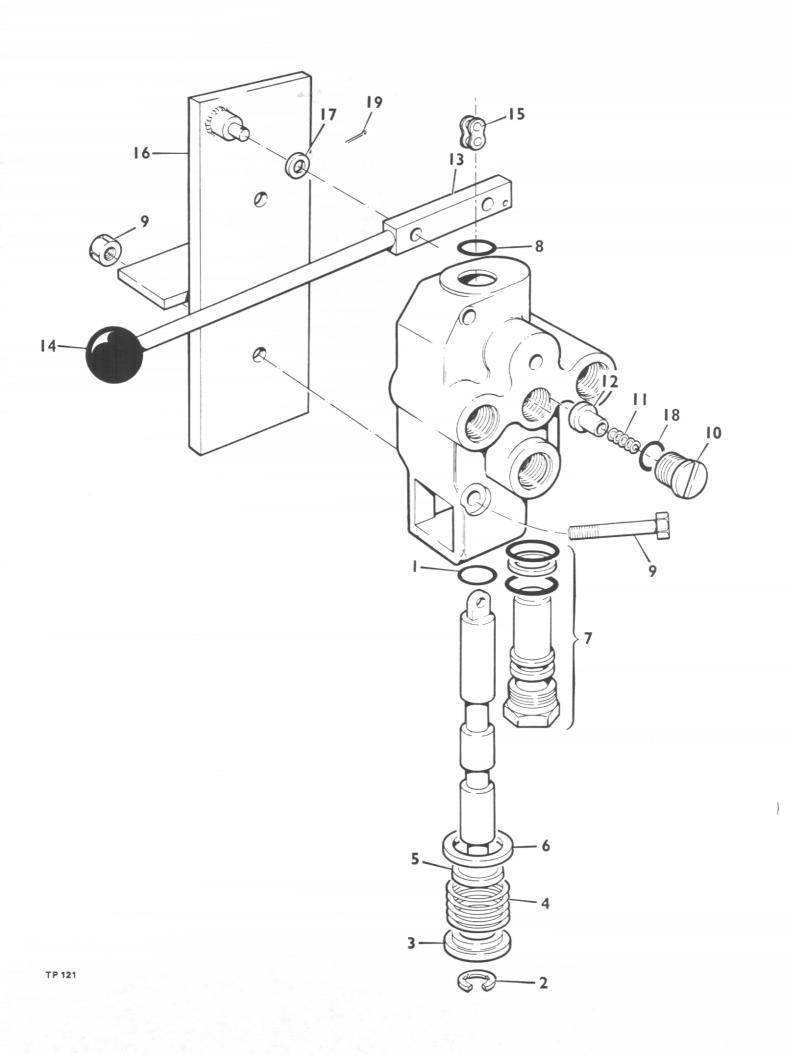
HYDRAULIC PIPES & FITTINGS

Item No.	Part No.	Description	Qty
1	2ST 118	Hydraulic Tank	1
2	UC1457	Suction Filter	1
3	2ST 72E	Hose ½" x 16" long 90-90 (tank to pump) (PETTER)	1
	2ST 97A	Hose $\frac{1}{2}$ x 31" long 90-90 (tank to pump) (LISTER) .	1
4	2ST72F	Adaptor ¾" JIC x ½" BSP	1
5	2ST 72J	'O' Ring ¾'' dia.	1
6	H20210-OAEA	Pump Complete (PETTER) (See Page 47)	4
-	H20210-1AEA	Pump Complete (LISTER) (See Page 47)	1
7	2ST 72K	'O' Bing 9/16'' dia	1
8	2ST 72G	'O' Ring 9/16'' dia	1
9	2ST 72D	Hose 3/8" x 34% long ST-90 Valve to pump & tank	
10	4-35-40K	Adaptor $\frac{3}{2}$ IIC v $\frac{3}{8}$ BSP	
11	300-023-AAD	Adaptor ³ / ⁴ / ⁴ JIC x 3/8 ¹ / BSP	3
12	T14J	Valve Complete (See page 49)	1
13	T141	Adaptor 3/8" BSP x 3/8" BSP	3
14	2ST72B	Bonded Seal 3/8" BSP	
15	2ST 126	Hose 3/8" x 85" long ST-ST (valve to tee)	1
16	231 120		1
17	2ST 72N	Bolt ¼" BSF x 1" long, Nut & Spring Washer	1
18	3500-60	Elbow 90 ⁰	2
19		Hydraulic Cylinder Complete (See Page 50)	2
	2ST 72C	Hose 3/8" x 13¼" long ST-90 (tee to cylinder)	2
20	T18B	Cover plate gasket	1
21	4-35-187	Cover Plate Assembly	1
22	D4445	Screw 5/16" UNF x ¾" long & springwasher	4
23	P1145	Strainer	1
24	P2578-2	Filler Cap	1
25		Bolt 3/8" BSF x 1" long & Nut	4
26		Spring Washer 3/8'' dia	4



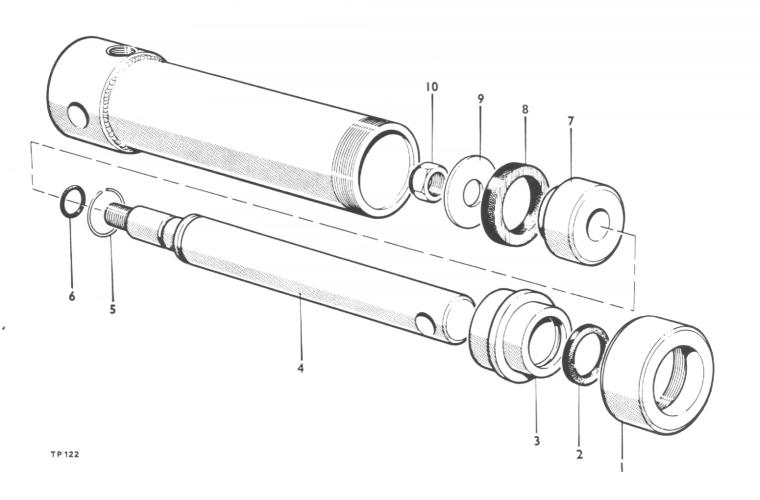
HYDRAULIC PUMP & DRIVE

Item No.	Part No.	Description	Qty
1 2 3 4 5 6 7 8 9 10 11 2 3 4 5 11 12 13 4 15 16	H 20210-O AEA H 20210-1 AEA 2 ST 121 2 ST 119 2ST 125 2ST 124 20200-20 20200-34 20210-7 20210-13 20200-36 16032-522 20210-8 2 ST 123 2 S 122	Pump Assembly (PETTER) Pump Assembly (LISTER) Wedge Belt	2 1 1 2 1 1 1 1 1 1 1 1 1 1 2 2 2
17	20200-25	Кеу	1



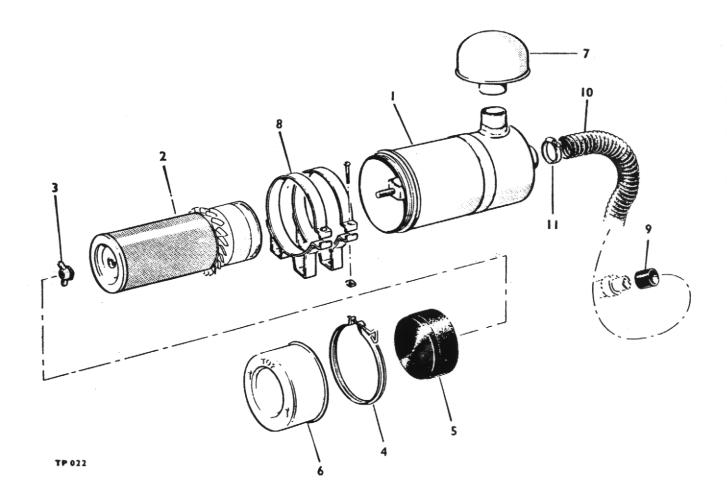
HYDRAULIC CONTROL VALVE, LEVER & MOUNTING BRACKET

Item No.	Part No.	Description	Qty
1 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 10 11 12 13 14 5 6 7 8 9 10 11 12 13 14 5 6 7 8 9 10 11 12 13 14 5 6 7 8 9 10 11 12 13 14 5 6 7 8 9 10 11 12 13 14 15 16 17 10 10 11 12 11 11	300-023-AAD 16003-12 16124-50 15546-6 30501-39 16048-31 30501-10 32016-L 16004-63 30501-11 30501-13 30501-12 4-60-143 2ST88 4-60-178 2ST-131	Valve Complete	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
15	30521-800	Split Pin 3/32" dia. x 5/8" long	1



HYDRAULIC CYLINDER

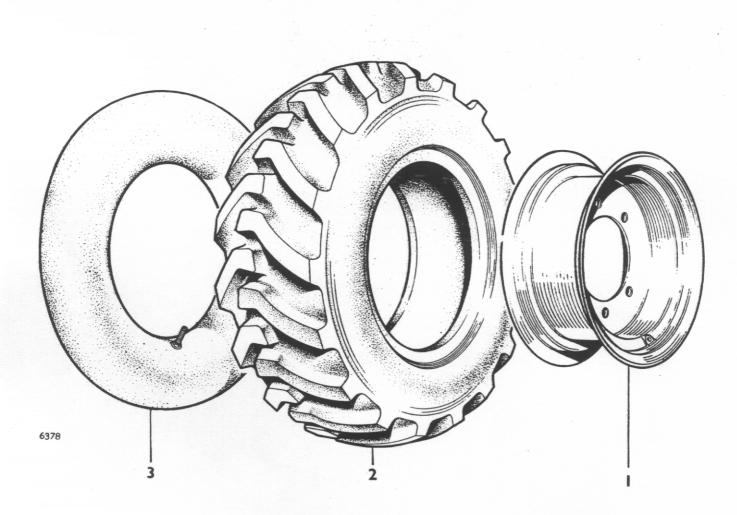
Item No.	Part No.	Description	Qty
	3500-60	Hydraulic Cylinder Complete	2
1	3503-60	Tube Cap	2
2	3510-60	Wiper Seal	
3	3506-60	Sleeve	
4	3505-60	Piston Rod	2
5	3514-60	Snap Ring	
6	3511-60	Rod 'O' Ring	
7	3504-60	Piston Head	
8	3509-60	Piston Seal	2
9	3507-60	Backing Washer	2
10	3508-60	Locknut	. 2



AIR CLEANER

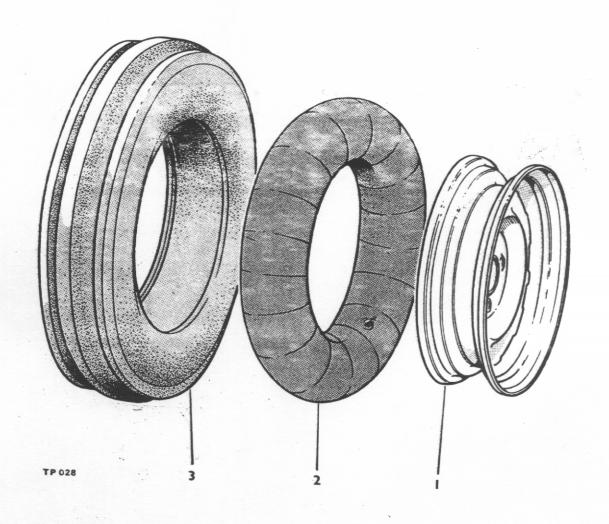
Item No.	Part No.	Description	Qty.
1	10532A02	Air Cleaner Assembly	1
2	10532A0101	Element	1
3	V600487	Nut & Gasket Kit	1
4	220229002	Clamp Body	1
5	220229003	Skirt, baffle	1
6	220229004	Cup	1
7	10534A02	Stack Cap	1
8	10533A02	Bracket	2
9	10320A06	Sleeve Adapter	1
10		Hose Flexible 2" Bore x 35" Long	1
11	97S12	Clip Hose	2

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DRIVE WHEELS & TYRES

Part No.	Description	Qty.
24S20	RH Wheel Assembly Complete	1
	LH Wheel Assembly Complete	1
30033A01	Wheel Rim 4.00 x 16	2
20\$09		2
23S02	Tube 600 x 16	2
	24S20 24S19 30033A01 20S09	24S20RH Wheel Assembly Complete24S19LH Wheel Assembly Complete30033A01Wheel Rim 4.00 x 1620S09Tyre 600 x 16-4 Ply



STEERING WHEELS & TYRES

Item No.	Part No.	Description	Qty.
1	24S35 LP598	Steering Wheel Complete Wheel Rim 4.00 x 16	2
2	23S01	Tube 5.50 x 16	2
3	21S02	Tyre 5.50 x 16-4 Ply	2

DECIMAL, FRACTIONAL AND METRIC EQUIVALENTS

Inches			Milli-	Inches	Milli-
	Fractions	Decimals	metres	Fractions Decim	matros
		0.015625	0.397	33/64 0.5150	
		0.03125	0.794	17/32 0.5313	
3/64		0.046875	1.191	35/64 0.5468	375 13.891
		1/16 - 0.0625	1.588	9/16 - 0.562	5 14 288
5/64		0.078125	1.984	37/64 0.578	125 14.684
		0.09375	2.381	19/32 0.593	75 15.081
7/64	and an excited and the second s	0.109375	2.778	39/64 0.6093	375 15.478
		1/8 — 0.125	3.175	5/8 0.625	15 875
9/64		0.140625	3.572	41/64 0.6406	525 16.272
	5/32 -	0.15625	3.969	21/32 0.6562	25 16.669
11/64		0.171875	4.366	43/64 0.6718	
		3/16 - 0.1875	4,763	11/16 - 0.6875	
13/64		0.203125	5,159	45/64 0.703	125 17.859
	7/32 -	0.21875	5,556	23/32 0.7187	
15/64 .		0.234375	5.953	47/64 0.7343	375 18.653
		1/4 - 0.250	6.350		
17/64		0.265625	6.747	49/64	525 19.447
	9/32 -	0.28125	7.144	25/32 0.7812	
19/64 -	0,01	0.296875	7.541	51/64	25 19.844
		5/16 - 0.3125	7.938		
21/64 -		0.328125	8.334	13/16 - 0.8125 53/64 - 0.8281	20.638
,	11/32 -	0.34375	8.731	27/32 0.8437	
23/64 -	11702	0.359375	9.128	55/64 0.8593	
20/01		3/8 - 0.375	9.525		
25/64 -		0.390625	9.922	7/8 0.875 57/64 0.8906	22.225
20/04	13/32 -	0.40625	10.319		
27/64 -	10/02	0.421875	1	29/32 0.9062	201010
-1104 -		7/16 - 0.4375	10.716	59/64 0.9218	
29/64 -		0.453125	11.113	15/16 0.9375 61/64 0.9531	23.813
20/04 -	15/22 -	0.46875			
31/64 -	15/32	0.484375	11.906	31/32 0.968	75 24.606
01/04 -		1/2 - 0.500	12.303	63/64 0.9843	
	Comption and a second second at the second second	1/2 - 0.500	12.700	1 1.000	25.400

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	177.00	202.00	000.00
10	254.00	279.40	304.80	330.20	355.60	381.00	406.40	177.80 431.80	203.20 457.20	228.60 482.60
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	1470.00	4.400.00
60	1524.00	1549.40	1574.80	1600.20	1625.60	1651.00	1678.40	1701.80	1473.20 1727.20	1498.60
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