

OPERATING INSTRUCTIONS & SPARE PARTS LIST FOUR/60 DUMPER C/W SALISBURY 10HA AXLE (CAPACITY 60 CWT)

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INTRODUCTION

This Parts & Operators Manual is a re-print of the manual last published in 1980 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 FOUR/60 Four Wheel Drive 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.

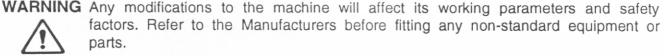
Winget Limited operate a policy of continuous product development. Therefore, some illustrations or text within this publication may differ from your machine.

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

MACHINE MODIFICATIONS



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 O11 8836935. Another useful publication is British Standard number BS 6264, "Procedure for Operator Training For Earth Moving Machinery" available from the British Standard Institution.

OPERATION



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.

Where seat belt restraints are fitted as part of Rops/Fops Protection they must be worn. Ensure that the seat and seat belt are securely fixed to the machine. 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.

4

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.

Some articulating dumpers are manufactured with an articulation lock. If your machine has this feature proceed as follows:

ALWAYS fit the articulation lock when working within the articulation point crush zone.

NEVER attempt to lift the machine unless the articulation lock is engaged.

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, but loads (including weight of trailer) not exceeding the rated payload of the dumper may be towed on dry level ground in first gear, providing the dumper skip is loaded with half the rated payload to ensure tyre adhesion when braking.

ALWAYS use a purpose made towing pin.

NEVER tow loads up, down or across gradients.

GRADIENTS

WARNING NEVER operate Four Wheel Drive articulated steer dumpers on any gradients which exceed 25% (1 in 4), or across gradients which exceed 16% (1 in 6).

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.

 ${\it NEVER}$ tow up, down or across a gradient.

NEVER operate high discharge or rotating skips on gradients.

HYDRAULICS

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.
- 2 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 Hydraulics Warnings).

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.

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 vacumn 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.

ALWAYS ensure that the starting handle 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).

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

Some articulating dumpers are manufactured with an articulation lock. If your machine has this feature, ALWAYS fit the articulation lock when servicing or working on the machine.

PREPARATION FOR USE

Fig. 1
BEFORE THE FOUR/60 DUMPER IS PUT INTO SERVICE, ALWAYS CHECK THE FOLLOWING POINTS:—

1. Engine

Check the oil level on the dipstick (A), topping up if necessary to the full mark. See also 'Recommended Lubricating Oils', page 14.

Gearbox

Check the oil level on the dipstick (B), topping up if necessary to the full mark. See also 'Recommended Lubricating Oils', page 14.

3. Drive Axles and Transfer Case

Remove level plug (C) and check that oil is up to bottom of level hole.

Remove filler plug (D) and top up if necessary. See also 'Recommended Lubricating Oils', page 14.

4. Fuel Tank

Fill tank (E) 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 (F). Before removing the cap, clean the surrounding area, to prevent the possible entry of foreign matter. DO NOT MIX OILS. See also 'Recommended Lubricating Oils', page 14.

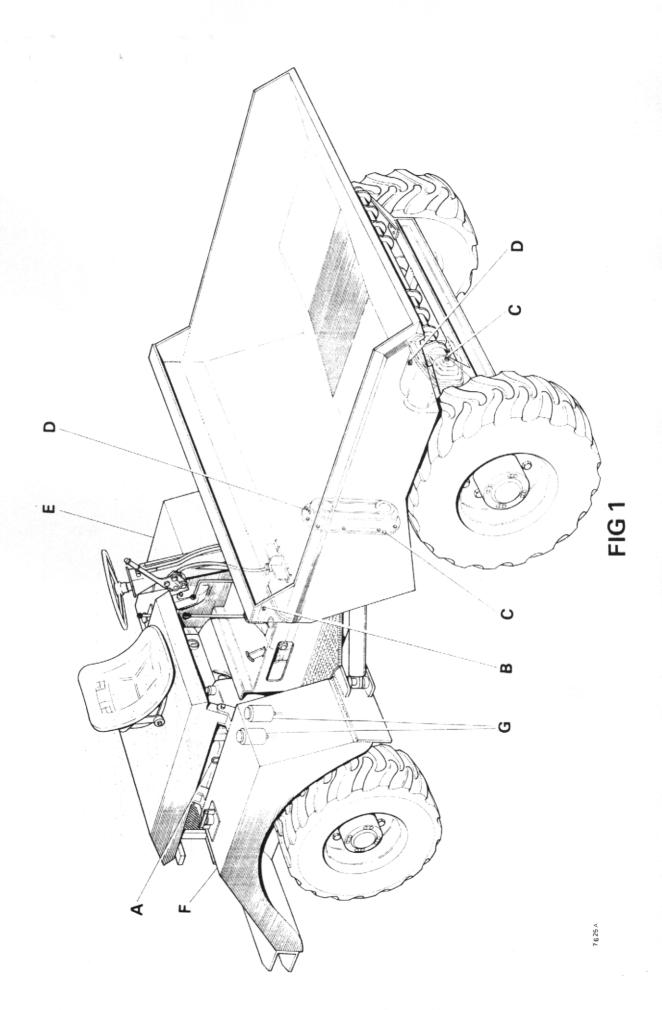
6. Brake System

Ensure that both brake master cylinder reservoirs (G) are full of brake fluid. Top up if necessary, to within \(\frac{1}{4}\)" of the top of the reservoirs. Use only Girling Crimson Brake Fluid.

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.



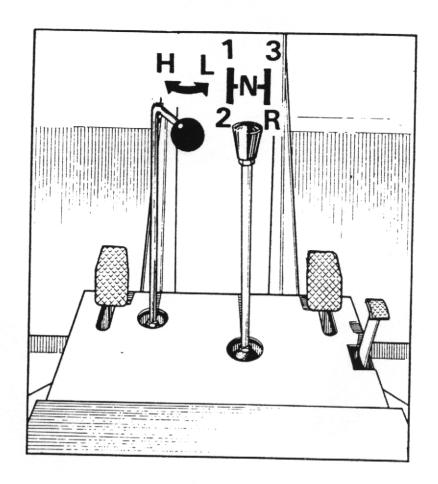


FIG 2

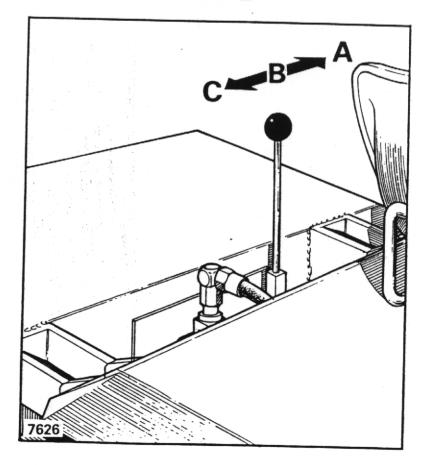


FIG 3

OPERATION

Starting

- Insert the ignition key in the isolating switch and turn clockwise.
 Lister Engine switch is below front of operator's seat, towards left of operator.
 Petter Engine switch is below right-hand side of operator's seat, towards rear.
- Press the start button alongside the switch. DO NOT operate starter motor for more than 20 seconds at a time.
- Where the ambient temperature is 5°F (-15°C) or below, a cold starting aid should be fitted, after consultation with the Engine Manufacturer or Agent.

Stopping

Pull the engine stop control knob, positioned below the front and to the left of the operator's seat, until the engine stops.

Gear Shift and High-Low Range Levers

Fig. 2

- The Four/60 Dumper is fitted with three forward (1) (2) (3) and one reverse (R) gear in each range, giving a total of six forward and two reverse gears.
- 2. When changing gear in either the high (H) or the low (L) range the clutch pedal is used in the normal manner.
- 3. When changing from the high range to the low range or vice versa always bring the dumper to a stop.
 - a) Bring the dumper to a stop using the brake.
 - b) Set the gear shift lever in neutral (N) and apply parking brake.
 - Move the range selector lever to the required range.
 Note: It is not necessary to depress the clutch pedal.
 - d) Proceed in the new range.

Skip Control Lever

Fig. 3

- The control lever has three positions, DUMP (A), HOLD (B) and RETURN (C).
- 2. Push the lever forward to DUMP (A) to deposit the load.
- 3. Pull the lever back to RETURN (C) to return the skip to the carrying position.

NOTE: If the handle is released when in the DUMP or RETURN position it will automatically return to the HOLD position and the motion of the skip will cease. In this way the speed at which the load is deposited can be finely controlled.

GENERAL MAINTENANCE

Lubrication Fig. 4

Daily 1	Engine - oil Fuel Tank	No. of points 1 1
Weekly		
3	Gearbox - oil	1
4	Drive Axles - oil	2
5	Hydraulic Tank - oil	1
6	Brake Master Cylinder Reservoirs - brake fluid	2
7	Ram Bearings - grease	8
8	Footbrake Pedal - grease	1
9	Clutch Pedal - grease	1
10	Clutch Cross Shaft - grease	2
11	Skip Pivot - grease	2
12	Transmission Brake Cable - grease	2
13	Chassis Centre Pivot - grease	1
14	Propeller Shafts - grease	2
15	Trunnion Assembly - grease	8
16	Transfer Box - oil	1

Engine oil Gearbox oil Axle oil Hydraulic fluid Brake fluid Grease gun

Diesel fuel

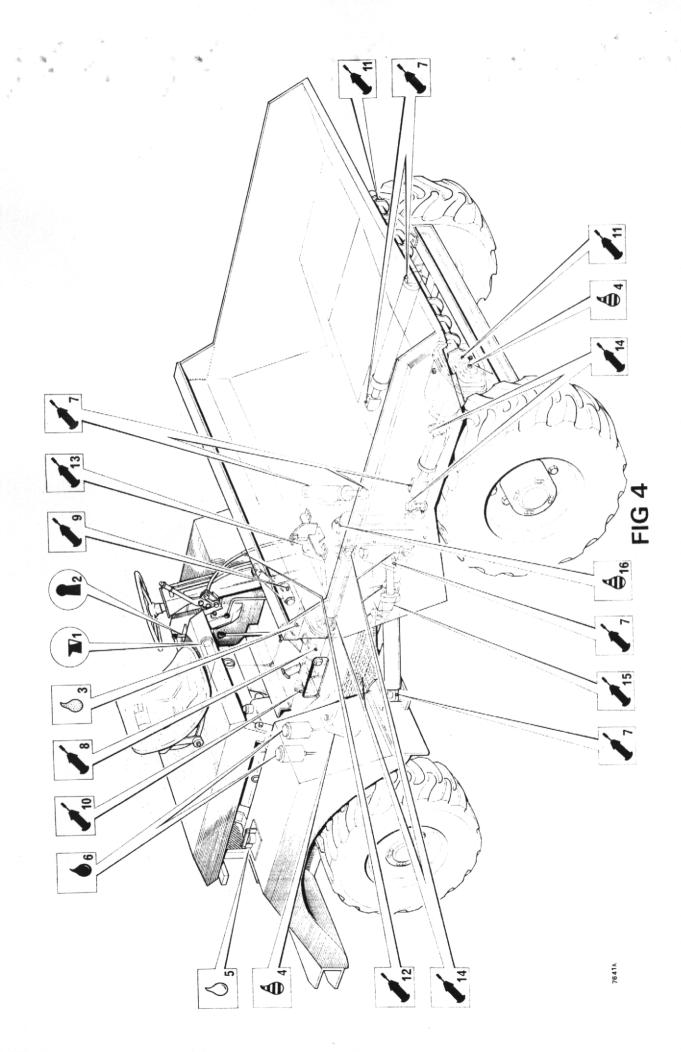
- NOTES: 1. Rear Axle Articulation Points consist of Silentbloc bushes and do not require lubrication.
 - 2. For full details on the lubrication and maintenance of the engine, refer to the appropriate manufacturer's manual.

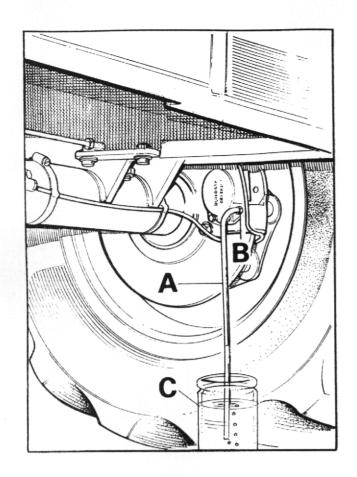
Recommended Lubricating Oils

See page 14.

Periodic Maintenance

- DAILY check engine oil level and fill to full mark on dipstick, if necessary.
- DAILY fill fuel tank, or as often as proves necessary, to within approximately 1" of the top. Never allow 2. there to be a depth of less than 2" of fuel in the tank.
- WEEKLY check oil level in the gearbox and fill to full mark on the dipstick if necessary. 3.
- WEEKLY remove the oil level plugs from the drive axles and the transfer case. Oil levels should be to 4. bottom of the holes. Remove the filler plugs and top up, if necessary.
- WEEKLY check oil level in the hydraulic tank. Always clean the surrounding area before removing the 5. cap to prevent the possible entry of foreign matter. Fill tank, if necessary to within 1" of the top.
- WEEKLY check brake fluid level in the master cylinder reservoirs and top up if necessary, to within 6. 1" of the top.
- 7. WEEKLY apply grease to all grease nipples.
- WEEKLY check all wheel nuts and tighten, if necessary. 8.
- OCCASIONALLY check all nuts and bolts and tighten, if necessary. 9.





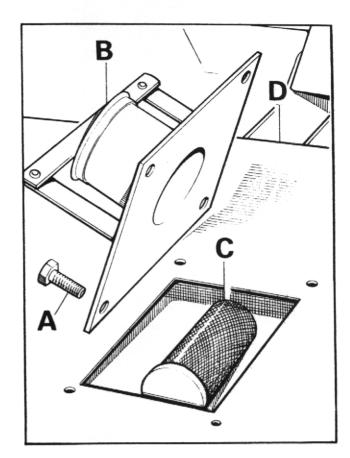


FIG 5

FIG 6

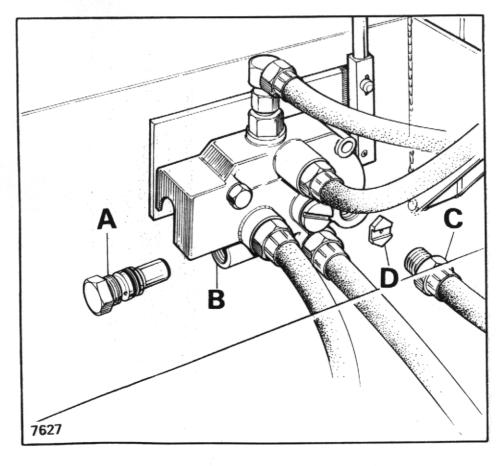


FIG 7

Brake System

The brake system is designed to require the minimum of maintenance, and, providing that 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 to a very low level. These defects must be remedied immediately and the complete system bled.

To bleed the system, proceed as follows. During the operation it is essential that the reservoir levels are kept topped up to prevent further air from being drawn into the system. Only use new fluid for topping up.

Fig. 5

- 1. Check that all connections are tight and all bleed screws are closed.
- Fill the reservoirs with Girling Crimson Brake Fluid. 2.
- Attach bleeder tube (A) to one of the bleed screws (B) and immerse the other end in a small quantity 3. of brake fluid contained in a glass jar (C). Slacken the bleed screw and operate the brake pedal up and down through its full stroke until the fluid pumped into the jar contains no air bubbles. Hold down the pedal and close the bleed screw. Remove bleeder tube and release the pedal.
- Repeat on other three wheels completing one axle and then passing on to the other. 4.
- Continue until all air has been bled from the system. 5.
- Lock all bleed screws and top up the reservoirs to the correct level. 6.
- Apply normal working load on the brake pedal for two or three minutes and examine the entire system 7. for leaks.

Main Hydraulic System

The main hydraulic system controls the dumping and return of the skip. If the skip fails to operate or does so extremely slowly, carry out the following procedures until the fault is rectified.

Check that the hydraulic tank is full of oil. 1.

Fig. 6

- Remove four setscrews (A) securing filler cap assembly and remove assembly. a) 2.
 - Unscrew suction filter (C) from inside tank (D) and wash in white spirit. Dry with moistureb) free compressed air.
 - Replace suction filter and filler cap assembly. c)

Note: If suction filter cannot be thoroughly cleaned, fit a new one.

Check that hydraulic pressure is correct. 3.

- Fit a 2000 p.s.i. gauge into the hydraulic line to the base of the rams. a)
- Operate control lever to dump skip and check that the pressure reading on the gauge is 1750 p.s.i. when the ram is fully extended and the relief valve is 'blowing'.

Fig. 7

Remove relief valve cartridge (A) (hexagon head) from end of control valve (B) opposite to control lever and replace with a new one.

 Remove hose adaptor (C) from control valve, 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 all of these procedures fail to correct the fault contact your local Winget agent.

Periodically check the hose between the pump and the tank to ensure that it is not deformed. Any deformation in the hose may result in a restricted flow 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.

SPECIFICATION Fig. 8

Dimensions:		
A. Overall height	6′ 6″	(1.98m)
 B. Skip loading height 	4' 5"	(1.34m)
C. Wheelbase	7′ 0″	(2.13m)
D. Overall length	13′ 9″	(3.96m)
E. Ground clearance	11"	(0.28m)
F. Overall width	6′ 7″	(2.01m)
G. Skip ground clearance when tipped	1′ 5″	(0.43m)
H. Overall height tipped	7' 7"	(2.31m)
 Skip discharge distance 	3′ 1″	(0.94m)
K. Reach from tyres	3' 4"	(1.02m)
L. Wheel track	5′ 6″	(1.68m)
Skip Capacities:		
Water Level	50ft ³ .	(1416 litres)
Struck Level	69ft ³ .	(1954 litres)
Heaped	89ft ³ .	(2520 litres)
Maximum Payload	6720lb.	(3048 kg.)
Prow width	6′ 4″	(1.93m)
	0 1	(1.55111)
Road Speeds:		
1st forward	$2\frac{1}{2}$ mph	(4½ kph)
2nd forward	5 mph	(8 kph)
3rd forward	5½ mph	(8≟ kph)
4th forward	$8\frac{1}{2}$ mph	(13 kph)
5th forward	10⅓ mph	(16¾ kph)
6th forward	17 mph	(28 kph)
1st reverse	2½ mph	(4½ kph)
2nd reverse	5 mph	(8 kph)
		(O NP.1)
Tank Capacities:		
Diesel fuel tank	12 imp. galls.	(54.5 litres)
Hydraulic oil tank	12 imp. galls.	(54.5 litres)
Turning circle	27′ 6″	(8.36m)
Vehicle weight	2 tons 18 cwt.	(2946 kg.)
Hydraulic relief valve	1750 p.s.i.	(123.1 kg/cm ²)
Rear axle articulation	12 ⁰	(123.1 kg/cm²)
Maximum steering angle	35 ⁰	
Tyre pressure	40 p.s.i.	12 9 kg/s=21
. 1. o p. 000010	το μ.σ.ι.	(2.8 kg/cm ²)

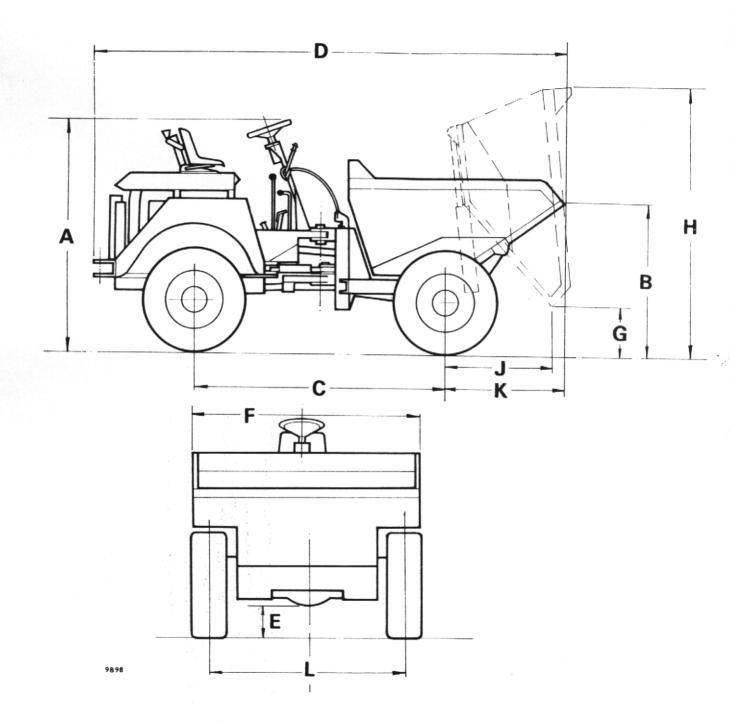


FIG 8

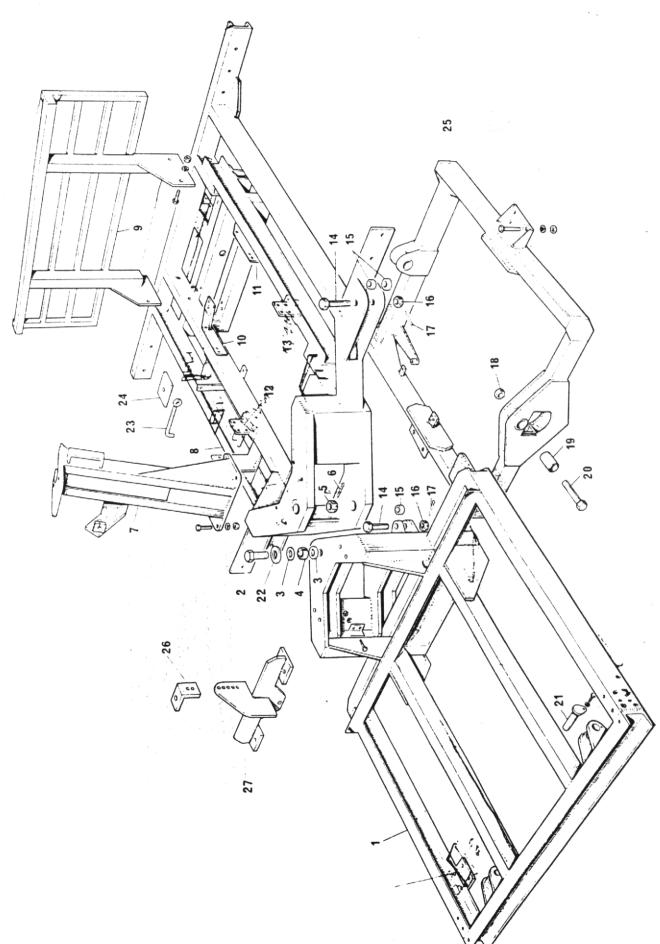
RECOMMENDED LUBRICATING OILS

Company	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 Winter	Estor HD 20	Essolube HD 10W	Esso Gear Oil GP 90/140	Estor HD 30	Beacon 2	
Above 90°F 32-90°F (Overseas) Below 32°F	Essolube HD 30 PE Essolube HD 20 PE Essolube HD 10W	Essolube HD 30 Essolube HD 10W Essolube HD 10W	Esso Gear Oil GP 90/140 Esso Gear Oil GP 90/140 Esso Gear Oil GP 80	Essolube HD 30	Beacon 2	Nuto H 44
(U.K.) Summer Winter	Deusol CRI 20	Deusol CRI 10	Deusol Gear EP 90	Deusol CRI 30	Castrol Spheerol APT 2	
CASTROL Above 90°F 32-90°F (Overseas) Below 32°F	PF Deusol CRI 30 PF Deusol CRI 20 PF Deusol CRI 10	Deusol CRI 20 Deusol CRI 10 Deusol CRI 10	Deusol Gear EP 140 Deusol Gear EP 90 Deusol Gear EP 80	Deusol CR1 30	Castrol Spheerol APT 2	Castrol Hyspin AWS 32
(U.K.) Summer Winter	Rotella S Oil 20/20W	Rotella S Oil 10W	Spirax 90 EP	Rotella S Oil 30	Retinax A	
SHELL Above 90°F 32-90°F (Overseas) Below 32°F	P Rotella S Oil 30 PF Rotella S Oil 20/20W PF Rotella S Oil 10W	Rotella S Oil 20/20W Rotella S Oil 10W Rotella S Oil 10W	Spirax 140 EP Spirax 90 EP Spirax 80 EP	Rotella S Oil 30	Retinax A	Tellus Oil 27
(U.K.) Summer Winter	Energol DD 20W	Energol DD 10W	BP Gear Oil SAE 90EP	Energol DD 30	Energrease L2	
BP Above 90 ^o F 32-90 ^o F (Overseas) Below 32 ^o F	F Energol DD 30 F Energol DD 20W F Energol DD 10W	Energol DD 20W Energol DD 10W Energol DD 10W	BP Gear Oil SAE 140EP BP Gear Oil SAE 90EP BP Gear Oil SAE 80EP	Energol DD 30.	Energrease L2	Energol HL 65
(U.K.) Summer Winter	Mobil Delvac Special or Mobil Delvac 1120	Mobil Delvac Special or Mobil Delvac 1110	Mobilube GX 90	Mobil Delvac 1130	Mobilgrease MP	i de M
MOBIL Above 90 ⁰ F 32-90 ⁰ F (Overseas) Below 32 ⁰ F All Temperatures	F Mobil Delvac 1130 F Mobil Delvac 1120 F Mobil Delvac 1110 Mobil Delvac Special	Mobil Delvac 1120 Mobil Delvac 1110 Mobil Delvac 1110 Mobil Delvac Special	Mobilube GX 140 Mobilube GX 90 Mobilube GX 80	Mobil Delvac 1130	Mobilgrease MP	Light
8	IN TE	HE UNLIKELY EVENT OF	IN THE UNLIKELY EVENT OF THE ABOVE OILS NOT BEING AVAILABLE EQUIVALENT OILS SUPPLIED BY A REPUTABLE MANUFACTURER MAY BE USED	ING AVAILABLE JRER MAY BE USED		

SPARE PARTS SECTION

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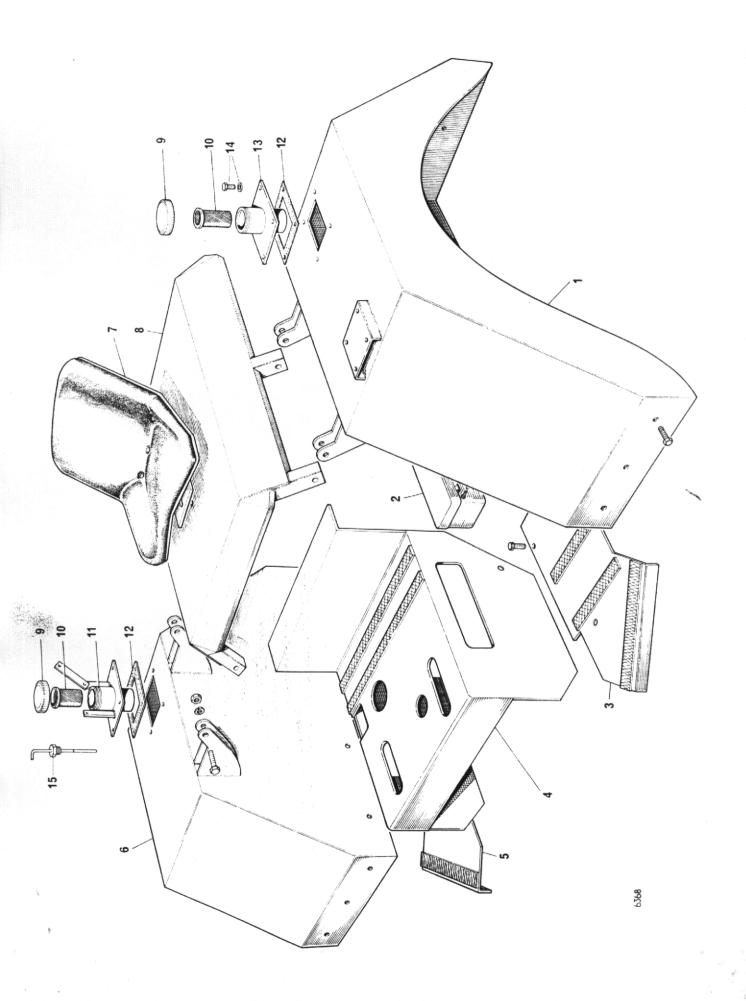


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CHASSIS

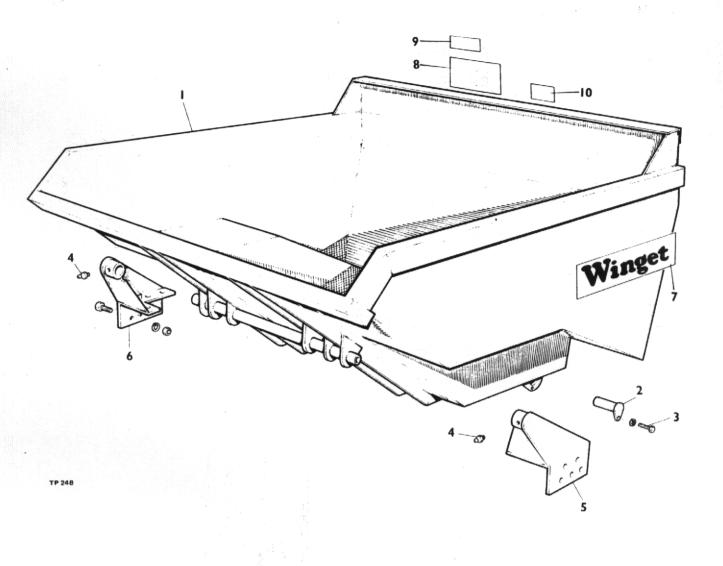
Item No.	Part No.	Description	No. Off
1	4/60-197	Front Chassis	_{2*} 1
2	4/60-103	Centre Pivot Bolts	2
3	4/60-102	Centre Pivot Spacer	2
	4/60-214	Centre Pivot Bearing	2
5	4/60-171	Centre Pivot Nut	2
6		Split Pin 🐇 " x 3" Long	2
7	4/60-120	Steering Column	1
8	4/60-186	Rear Chassis	1
.9	4/60-131	Rear Frame	1
10	4/60-187	R.H. Rear Engine Mounting Bracket (Petter)	1
11	4/60-188	L.H. Rear Engine Mounting Bracket (Petter)	1
12	4/60-182	R.H. Front Engine Mounting Bracket (Petter)	1
13	4/60-181	L.H. Front Engine Mounting Bracket (Petter)	· 1
13	4/60-183	L.H. and R.H. Front Engine Mounting Bracket (Lister)	2
14	4/60-104	Steering Ram Bolt	4.
15	4/60-112	Steering Ram Bolt Spacer	61
16	4/60-172	Steering Ram Bolt Nut	4
17		Split Pin 🖫 x 2½" Long	4
18		Nut 3 " UNF or BSF	2
19	E.2236	Silentbloc Bush	2
20		Bolt, " UNF or BSF x 5" Long	2
21	4/35-178	Ram Pin	2
22	4/60-240	Washer	4
23	4/60-224-1	Battery Lock Bar	1
24	4/60-224-2	Battery Clamps	2
25	4/60 116	Articulating Frame	1
26	4/60-256-4	Fransmission Brake Cable Bracket	1
27	4/60-256	Transmission Brake Bracket	1

Note: When ordering Articulating frame 4/60/116 & Rear Chassis 4/60/186 please state if handbrake operates on rear wheels.



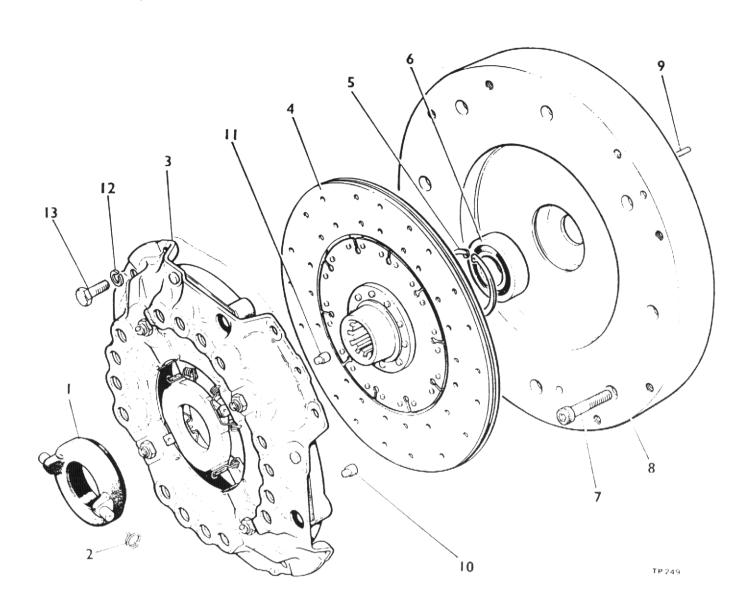
MUDWING AND COVERS

Item No.	Part No.	Description	No. Of
1	4/60-121	L.H. Tank & Mudwing	1
2	4/60-157	Tool Box	1
3	4/60-118	L.H. Footplate	1
4	4/60-196	Gearbox Cover & Footplate	1
5	4/60-117	R.H. Footplate	1
6	4/60-122	R.H. Tank & Mudwing	1
7	S.2000	Seat	1
8	4/60-195	Engine Cover	1
9	P.2792	Tank Cap	. 2
10	P.1263-3	Filter	2
11	4/60-206	Tank Filler Assembly (RH)	1
12	5ST.18B	Gasket	2
13	4/60-200	Tank Filler Assembly (LH)	1
14		5" UNF Bolt x 3" Long	. 8
15	4/60-226	Dipstick (Hyd. Tank)	1



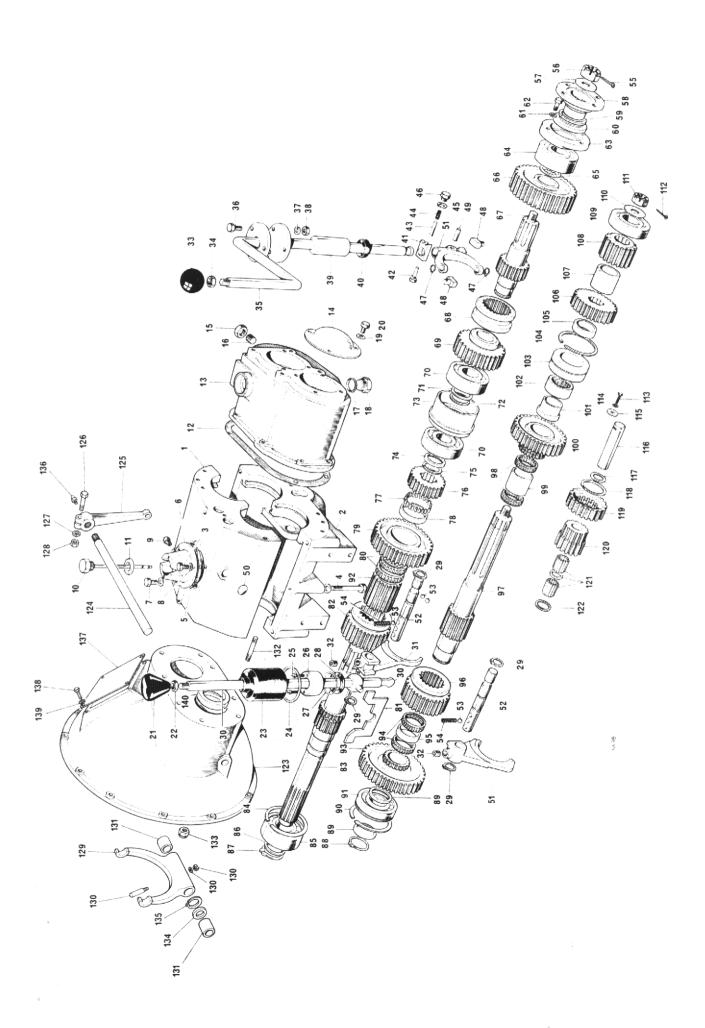
SKIP

Item No.	Part No.	Description	Qty
1	4-60-108	Skip Assembly	1
2	4-35-226	Ram Pin	
3		5/16" UNF Bolt x 3/4" Long	
4	5ST.100	Grease Nipple	
5	4-60-106	Skip Mounting Bracket (L.H.)	
6	4-60-105	Skip Mounting Bracket (R.H.)	
7	DM 154	Label – Winget	
8	DM 180	Label – Dumper Safety	
9	DM 157	Label — Warning	
10	DM 106	Label – Handbrake	

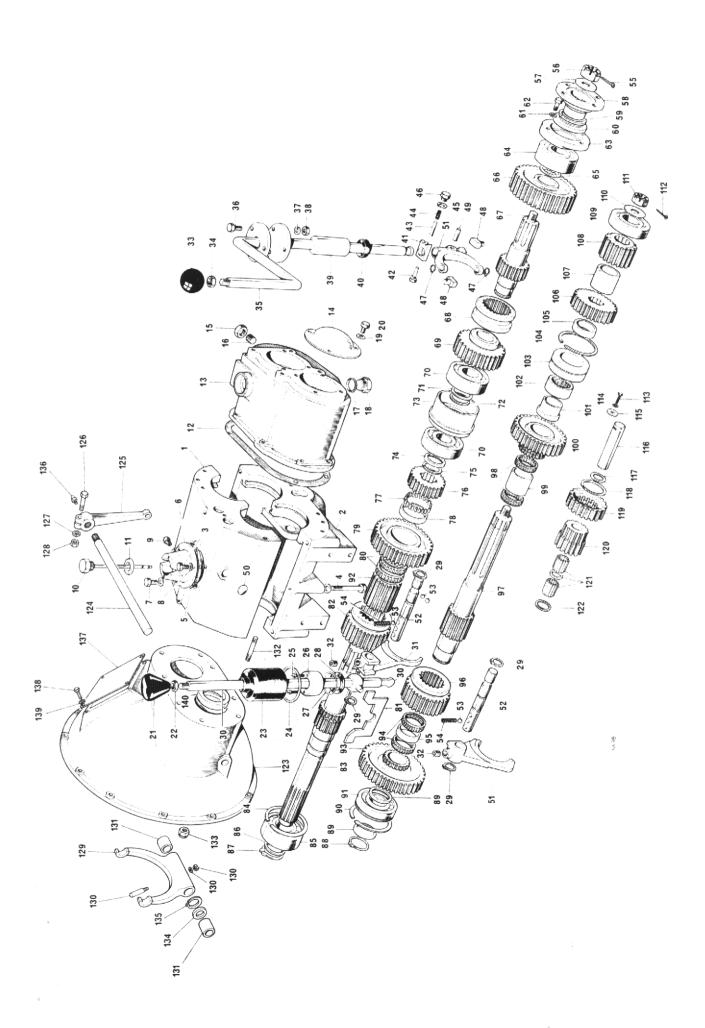


CLUTCH ASSEMBLY 12"

Item No.	Part No.	Description	Qty.
1	10579A02	Clutch Release Bearing	1
2	10579A0101	Retainer Spring	2
3	10597A03	Cover Assembly	1
4	10598A04	Drive Plate	1
5	130052MM	Circlip	1
6	88S15D	Bearing	1
7	287S04H	Capscrew (Petter) 3/8"x2"	8
8	CM2514	Flywheel Assembly (Petter)	4
9		Dowel 3/8" Dia (Petter)	1
10	CM2529	Dowel 3/8"x5/16" Dia (Petter)	1
11	CM2530	Dowel 3/8"x1/4" Dia (Petter)	1
12	41S05	Washer Spring 3/8"	8
13	28S03D	Screw Set 3/8"UNFx3/4"	8
	10948A06	Clutch Kit (comprises of items 1, 2, 3 & 4)	1



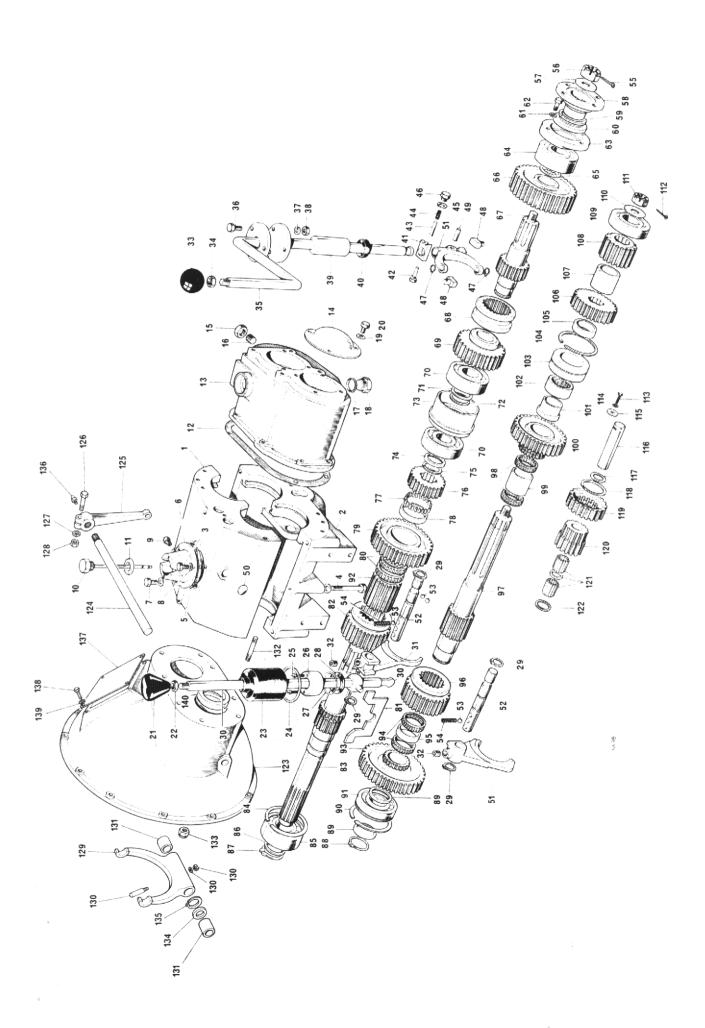
Item No.	Part No.	Description	No. Of
1	CM.2481	Gearcase - Upper Half	1
2	CM.2480	Gearcase - Lower Half	1
3	USF.31	Bolt	2
4	UBF.153	Bolt - Gearcase	6
5	CM.2074	Joint - Top Cover	1
6	CM.2098	Top Cover	1
7	CM.2056	Dowel Bolt - Top Cover	1
8	W.104	Shakeproof Washer	15
. 9	CM.2106	Breather	1
10	CM.2510	Dipstick	1
11	CP.1068	Washer	3
12	CM.2508	Joint	1
13	CM.2496	Transfer Case	1
14	CM.2328	End Cover	1
15	N.113	Lock Nut - Thin	1
16	CP.1081	Setscrew	1
17	CP.1068	Washer	1
18	CP.1002	Drain Plug	15
19	W.105	Washer	2
20	USF.31	Bolt	3
21	CM.2108	Knob	3
22	UN.512	Lock Nut	1
23	CM.2197	Rubber Cover - Gear Lever	
24	CM.2198	Clip	1
25	CM.2177	Screw - Cheese Head	1
26	CM.2163	Felt Washer Retainer	3
27	CM.2196	Spring	. 1
28	CM.2162	Felt = sher	1
29	CP.1138	Circus	1
30	CM.2513S/A	Gear Lever	4
31	CM.2288	Sel Fork 3rd. and Reverse	1
32	UFG.	Grub Screw	1
33	40M.645	Knob	2
34	UN.512	Lock Nut	1
35	4/60/148	Auxiliary Gear Lever Extension	2
36	., 00, . 10	Bolt % BSF x % Long	1
37			3
38		Lockwasher ភ្នំ" Dia. Nut ភ្នំ" BSF	3
39	CM.2512S/A	Auxiliary Gear Lever	3
40	40M.620	Oil Seal	1
41	40M.617	Detent Plate	1
42	CP.1062	Bolt Selector	1
43	CM.2509	Plunger	1
44	CM.2103	Spring	1
45	HB.129	Shakeproof Washer	1
46	USF.3	Setscrew	1
47	CP.1061	Circlip	1
48	CP.1060		2
49	CP.1092	Trunnion Gear Change Spiral Pin	2
50	CM.2113	Sealing Disc	1
51		Sel Fork - 1st. and 2nd.	1
52	CM. 2287 CM. 3	Selector Shaft	1
52	U.VI.	SCIECTOL SHALL	2



CM15-6 GEARBOX Cont'd.



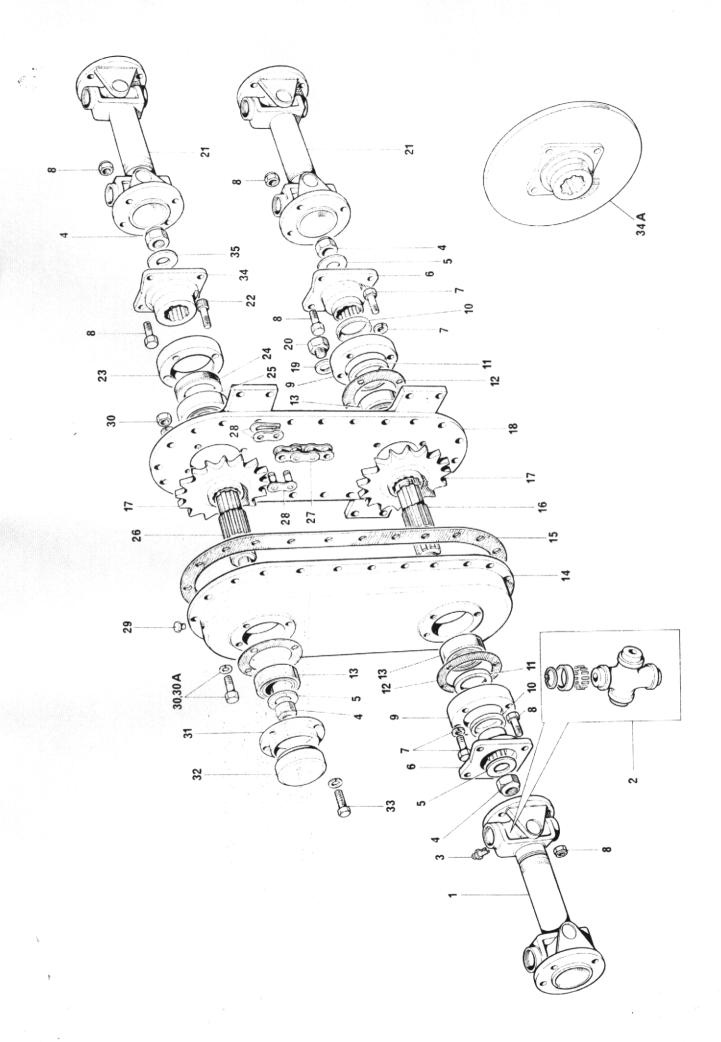
Item No.	Part No.	Description	No. Off
53	CP.1077	Detent Ball	4
54	CM.2103	Detent Spring	3
55	CP.1106	Split Pin	1
56	UN.503	Slotted Nut	1
57	CM.2488	Washer - Coupling	1
58	40M.589	Coupling c/w Dust Shield	1
59	CM.2537	Dust Shield	1
60	40M.167	Oil Seal	1
61	W.104	Shakeproof Washer	4
62	UBF.71	Bolt	4
63	CM.2331	Bearing Cap	1
64	CM.2325	Bearing - Output Shaft	1
65	CM.2100	Bearing Spacer =	3
66	CM.2333	Low Ratio Driven G	1
67	CM.2493	Selector Shaft	2
68	CM.2334	Operating Sleeve	1
69	CM.2335	High Ratio Driven Gear	1
70	CM.2068	Bearing - Layshaft	2
71	CM.2258	Bearing Spacer	1
72	CM.2053	Circlip - Layshaft	2
73	CM.2246	Bearing Housing	1
74	CM.2487	Spacer - Primary Shaft	1
75	CM.2025	Circlip	1
76	CM.2024	2nd. Speed Wheel - Main Shaft	1
77	CM.2556	Bearing USE 30102A0154 BUSH	. 30
78	CM.2555	Spacer - Rev. Wheel Main Shaft	1
79	CM.2554	Rev. Wheel - Main Shaft	1
80	CM.2579	Bearing	2
81	CM.2285	Baulk Plate	1
82	CM.2586	Sliding Gear	1
83	CM.2553	Primary Shaft	1
84	CM.2077	Circlip	1
85	CM.2383	Bearing - Input	1
86	CM.2016	Spacer - Input	1
87	CM.2067	Circlip	1
88	CM.2053	Circlip - Layshaft	2
89	CM.2100	Bearing Spacer	3
90	CM.2060	Snap Ring	2
91	CM.2052	Bearing - Layshaft Front	1
92	CM.2453	Sliding Gear	2
93	CM.2129	1st. Speed Wheel	1
94	CM.2315	Bearing	2
95	CM.2213	Spacer - 1st. Speed Wheel	1
96	CM.2586	Sliding Gear	1
97	CM.2450	Layshaft	1
98	CM.2315	Bearing	2
99	CM.2312	Spacer - 2nd. Speed Wheel	1
100	CM.2097	2nd. Speed Wheel - Layshaft	1
101	CM.2248	Bearing Inner Race	1
102	CM.2256	Needle Bearing	1
103	CM.2249	Bearing Housing	1
104	CM.2060	Snap Ring	2



CM15-6 GEARBOX Cont'd.



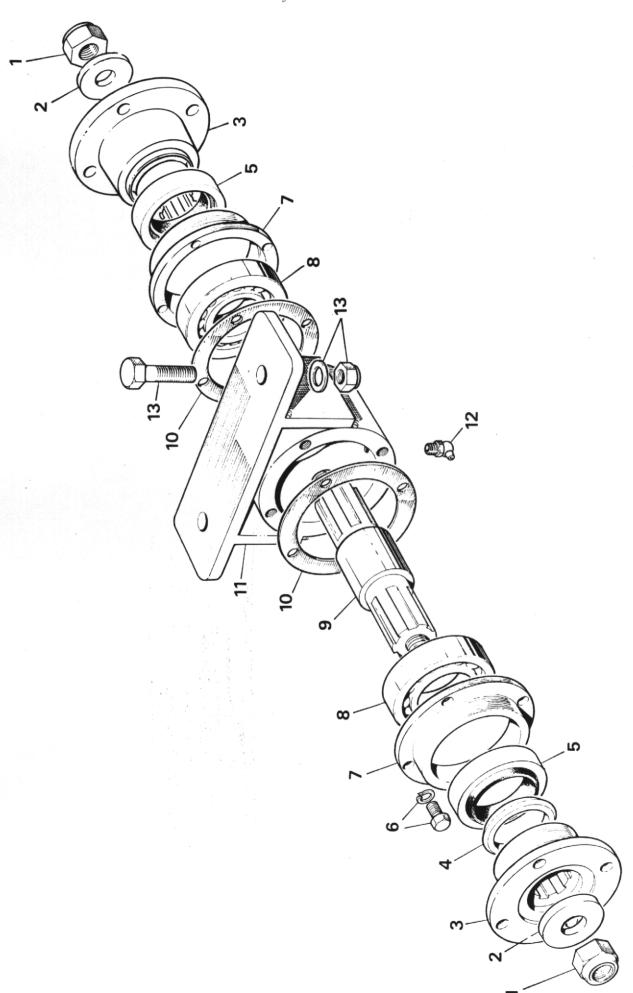
Item No.	Part No.	Description	No. Of
105	CM.2252	Spacer - Layshaft	1
106	CM.2250	High Ratio Drive Gear	1
107	CM.2253	Spacer Layshaft	1
108	CM.2251	Low Ratio Drive Gear	1
109	BK.195	Roller Bearing	1
110	CM.2123	Washer	1
111	UN.502	Slotted Nut	1
112	CP.1004	Split Pin	1
113	CM.2177	Screw Cheese Head	3
114	W.111	Washer	
115	CM.2124	Washer - Rev. Spindle	1
116	CM.2349	Reverse Pinion Shaft	1
117	CM.2582	Thrust Washer	1
118	CM.2359	Circlip	1
119	CM.2344	Reverse Cluster Wheel	1
120	CM.2583	Reverse Cluster Pinion	1
121	CM.2580	Rollers - Reverse Cluster	46
	CM.2581	Spacer - Reverse Cluster	1
122	CM.2582	Thrust Washer	1
123	CM.2360	Clutch Housing	1
124	CM.2386	Clutch Cross Shaft	1
125	CM.2090	Clutch Op. Lever	1
126	UBF.71	Bolt	5
127	W.112	Spring Washer	1
128	UN.501	Nut	
129	CM.2407	Clutch Op. Fork	1
130	CM.2084S/A	Cotter, Nut and Washer S/A	1
131	CM.2387	Bush, Cross Shaft	2
132	CM.2382	Stud, Clutch Housing	6
133	UN.518	Nyloc Nut	6
134	CM.2417	Washer, Cross Shaft	6 2
135	CP.1099	Circlip	1
136	CP.1069	Grease Nipple	2
137	CM.2474	Inspection Cover	1
138	USF.11	Set Screw - Insp. Cover	4
139	W.104	Shakeproof Washer	15
140	CM 2465	Innut Chaft Coal	1



TRANSFER BOX & PROP SHAFT

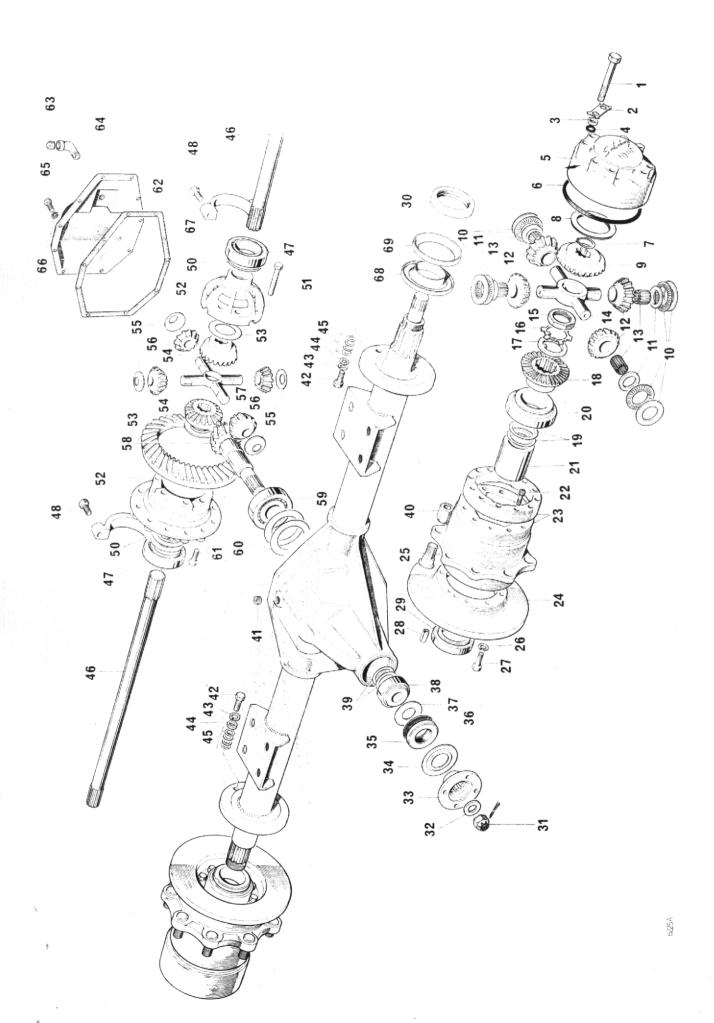
Item No.	Part No.	Description	No. Off
	4/60/271	Transfer Box complete (without brake disc)	1
	4/60/272	Transfer Box complete (with brake disc)	1
1	135H.00002	Prop Shafts to Drive Axles	2
2	K.5.GB.18	Repair Kit	As req'd.
3	94GB.2459	Grease Nipple	12
4	UN.580	Nut	4
5	CP.1264	Washer	3
6	40M.589	Flange (with Dust Shield)	2
7		Bearing Cover Screw & Spring Washer	8
8		Prop Shaft Nut & Bolt 76" BSF x 1 18" Long	2
9	CM.2206	Oil Seal Housing	2
10	CM.2537	Dust Shield	2
11	40M.167	Oil Seal	2
12	CM.2073	Gasket	2
13	CM.2068	Bearing	3
14	4/35/96	Main Case	1
15	4/35/20	Joint	1
16	4/60/253	Output Shaft	1
17	4/35/17	19 Tooth Sprocket (Sub Assy)	2
18	4/60/269	Main Cover	1
19	CP.1068	Fibre Washer	1
20	CP.1189	Filler Plug	1
21	1350.YSA	Prop Shafts	2
22	UFC.416	Cap Head Screw	4
23	4/60/264	Oil Seal Housing	1
24	SP.193	Oil Seal	1
25	40.713	Bearing	1
26	4/60/262	Input Shaft	1
27	4/35/18	Chain	1
28	4/35/18A	Chain Connecting Link	1
29	CM.2106	Breather	1
30		Housing Screw ¹ / ₄ " UNF x 1 ¹ / ₄ " Long & two Spring Washers	16
30A		Housing Screw ¹ / ₄ " UNF x 1 ¹ / ₂ " Long & two Spring Washers	8
31	40M.622	Bearing Housing	1
32	4/60/263	Bearing Housing Cap	1
33		Bearing Housing Screw 1/4" UNF x 3/4" Long & Spring Washer	4
34	GB.6201	Flange (with Dust Shield)	1
34A	4/60/266	Flange & Brake Disc Assy	1
35	4/60/265	Washer	1

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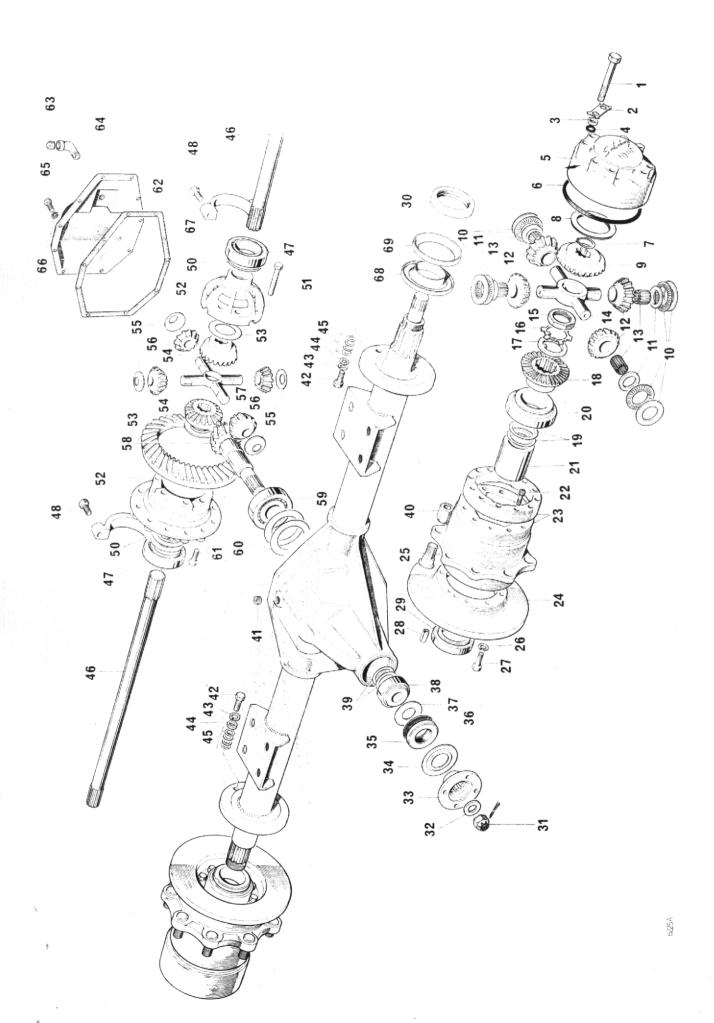
TRUNNION ASSEMBLY

Item No.	Part No.	Description	Qty.
	4-60-261	Trunnion Assembly Complete	1
1	UN.580	Companion Flange Nut, ¾" UNF Self Locking	2
2	CP.1264	Thick Washer, 3/" Dia	2
3	40M.589	Companion Flange C/W Dust Shield	2
4	CM.2537	Dust Shield	2
5	40M.167	Oil Seal	2
6		Housing Bolt ¼" UNF. x ¾" Long	8
7	40M.622	Oil Seal Housing	2
8	CM.2068	Bearing	2
9	4-60-251	Shaft	1
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



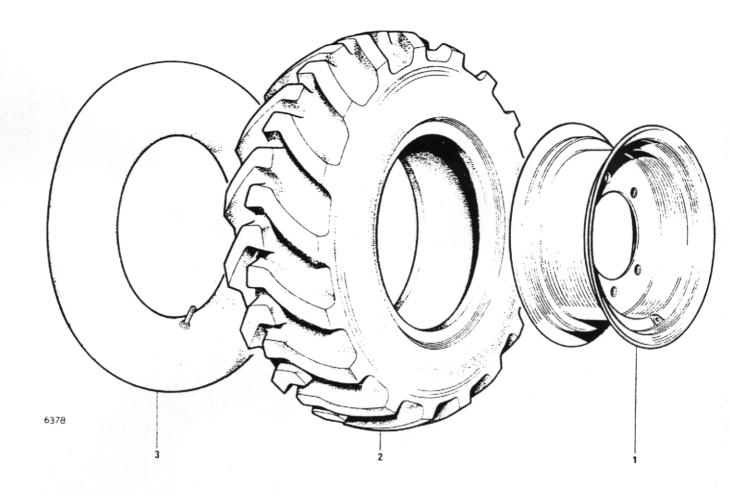
DRIVE AXLE

I	tem No.	Part No.	Description	No. Off
2		10HD-001-47	Front Axle Complete with Brakes	1
		10HD-001-46	Rear Axle Complete with Brakes	1
	1	8B-NC-66	Bolt	16
	2	10HD-108-1	Locking Strap	8
	3	8W-16	'O' Ring Retaining Washer	16
	4	10HD-079	'O' Ring Seal	16
	5	10HD-014	Wheel Hub End Housing	2
	6	10HD-079-1	Wheel Hub 'O' Ring	2 2
	7	10HD-096	Axle Shaft Circlip	2
	8	10HD-024	Bevel Gear Thrust Race Assembly	2
	9	10HD-007-4	Bevel Gear Outer	2
	10	10HD-023-1	Bevel Pinion Thrust Race Assembly	8
	11	10HD-037	Bevel Pinion Distance Piece	8
	12	10HD-008-3	Bevel Pinion	8
	13	10HD-022-1	Bevel Pinion Bearing	8
	14	10HD-012	Bevel Pinion Cross Shaft	2
	15	34N-NS-6	Hub Bearing Locknut	2
	16	10HD-091	Hub Bearing Lockwasher	2
	17	10HA-090	Hub Bearing Washer	2
	18	10HD-007-6	Bevel Gear Inner	2
	19	2HA-043	Hub Bearing Shim .003"	As req'd.
		2HA-044	Hub Bearing Shim .005"	As req'd.
		2HA-045	Hub Bearing Shim .010"	As req'd.
	20	10HD-025-2	Hub Bearing Outer	2
	21	10HD-018	Hub Bearing Spacer	2
	22	6AS-NF-24	Wheel Hub Screw	4
	23	10HD-028-21	Wheel Hub Assembly (Inner Outer Screws)	2
	24	10HD-136-1	Brake Disc	2
	25	10HA-055	Wheel Stud	16
	26	6LW-105	Lock Washer	10
	27	6B-NF21	Bolt	10
	28	12RP-16	Roll Pin	4
	29	10HD-025-1	Hub Bearing Inner	2
	30	10HD-032-5	Hub Oil Seal	2
	31	14LN-NF10/A	Pinion Nut	1
	32	14W-24	Pinion Nut Washer	1
	33	10HA-083-13	Companion Flange Assembly	1
	34	10HA-021-3	Companion Flange Dust Shield	1
	35	8HA-019-4	Pinion Oil Seal	1
	36	2HA-020	Pinion Oil Seal Gasket	1
	37	10HA-036	Pinion Oil Slinger	1
	38	10HA-022	Pinion Bearing Outer	1
	39	5HA-039	Pinion Bearing Shims Outer .003"	As req'd.
		5HA-040	Pinion Bearing Shims Outer .005"	As req'd.
		5HA-041	Pinion Bearing Shims Outer .010"	As req'd.
		5HA-042	Pinion Bearing Shims Outer .030"	As req'd.
	40	T23	Wheel Nut	16
	41	10HD-059	Filler Plug	1
	42	7B-NF-22B	Caliper Mounting Bolt	4
	43	7W-14	Caliper Mounting Washer	4
	44	7W-16	Packing Washer	4



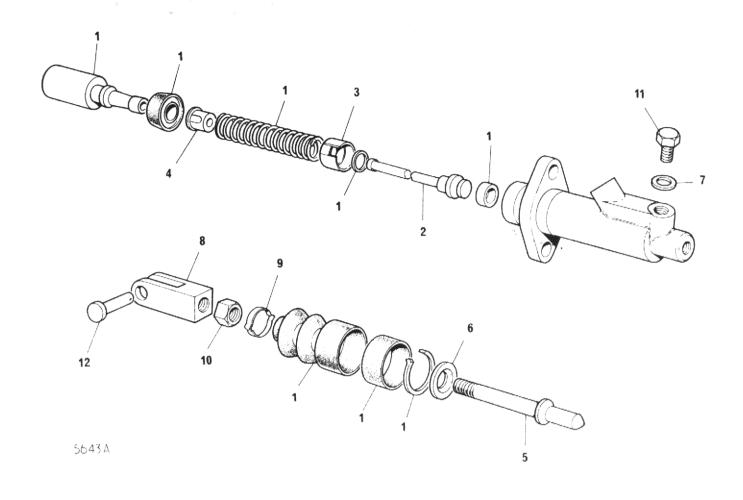
DRIVE AXLE Cont'd.

Item No.	Part No.	Description	No. Off
45	5HA-138	Caliper Mounting Shim .003"	As req'd.
	5HA-139	Caliper Mounting Shim .005"	As req'd.
	5HA-140	Caliper Mounting Shim .010"	As req'd.
	5HA-141	Caliper Mounting Shim .030"	As req'd.
46	10HD-005-20	Axle Shaft	2
47	8HA-024-2	Diff. Bearing	2
48	8B NC-36	Diff. Bearing Cap Bolts	4
49	8RP 22	Roll Pin For Cross Pin (Item 57)	2
50	8HA-046	Diff. Bearing Shims .003"	As req'd.
	8HA-047	Diff. Bearing Shims .005"	As req'd.
	8HA-048	Diff. Bearing Shims .010"	As req'd.
	8HA-049	Diff. Bearing Shims .030"	As req'd.
51	7B-NC-30/A	Diff. Case Bolt	8
52	10HA-006-2	Diff. Case	1
53	8HA-038	Diff. Side Gear Thrust Washer	2
54	8HA-007-2	Diff. Side Gear	2
55	8HA-037	Diff. Pinion Mate Thrust Washer	4
56	8HA-008-1	Diff. Pinion Mate	4
57	8HA-012-1	Pinion Mate Cross Pin	2
58	10HA-105	Drive Gear and Pinion Assy	1
59	10HA-023	Pinion Bearing Inner	1
60	10HA-043	Pinion Bearing Shims Inner .003"	As req'd.
	10HA-044	Pinion Bearing Shims Inner .005"	As req'd.
	10HA-045	Pinion Bearing Shims Inner .010"	As req'd.
61	8HA-075-1	Drive Gear Bolts	12
62	8HA-010-11	Gear Carrier Cover	1
63	HA-059	Level Plug	2
64	4/60/270	Level Elbow	1
65	6B-NC-10	Gear Carrier Cover Bolts	10
66	6LW-105	Gear Carrier Cover Lockwasher	10
67	10HA-026-1	Gear Carrier Cover Gasket	1
68	10HD-167-1	Wear Ring and Felt Assembly	2
69	10HD 168	Hub Ring	2
	10HA-082-3	Diff. Case Assembly (Comprising Items 52-57)	1
	10HD-028-22	Wheel Hub Assembly (Comprising Items 23-28)	2



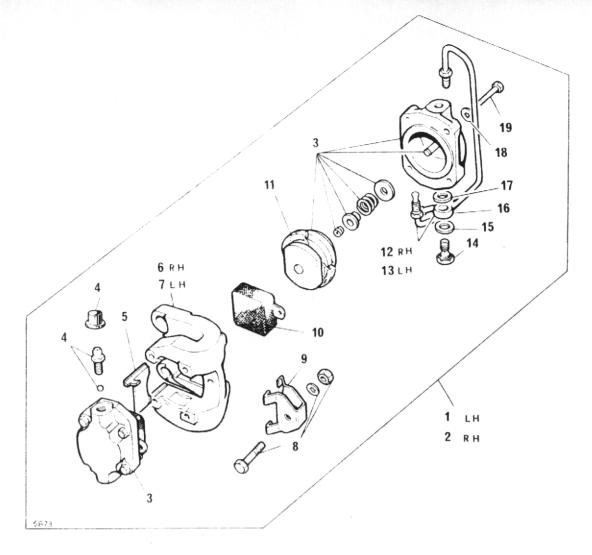
WHEELS AND TYRES

Item No.	Part No.	Description	Qty.
	24S09	L/H Wheel Assembly	2
	24S10	R/H Wheel Assembly	2
1	30181A01	Wheel rim 11 x 18	4
2	20S14	Tyre 12.5 x 18-10 ply	4
3	23S05	Tube 12.5 x 18	4



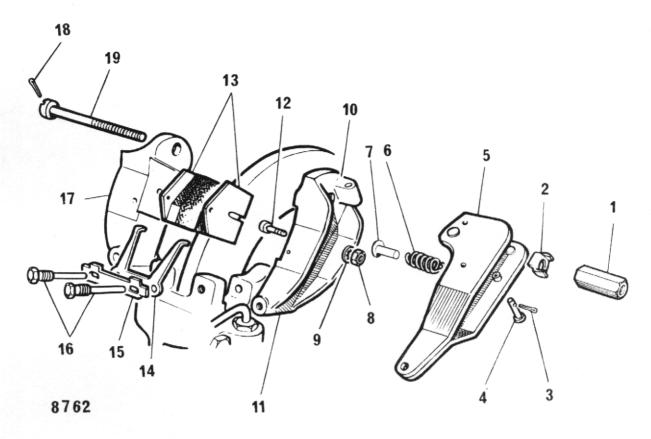
MASTER CYLINDER

Item No.	Part No.	Description	No. Off
	64067970	Master Cylinder Complete	2
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	1
6	378242	Retaining Washer	1
7	378700	Washer	1
8	64671286	Clevis	1
9	378312	Dust Cover Retainer	1
10	64100052	Lock Nut	1
11	64110348	Plug	1
12	C174Y	Clevis Pin	1



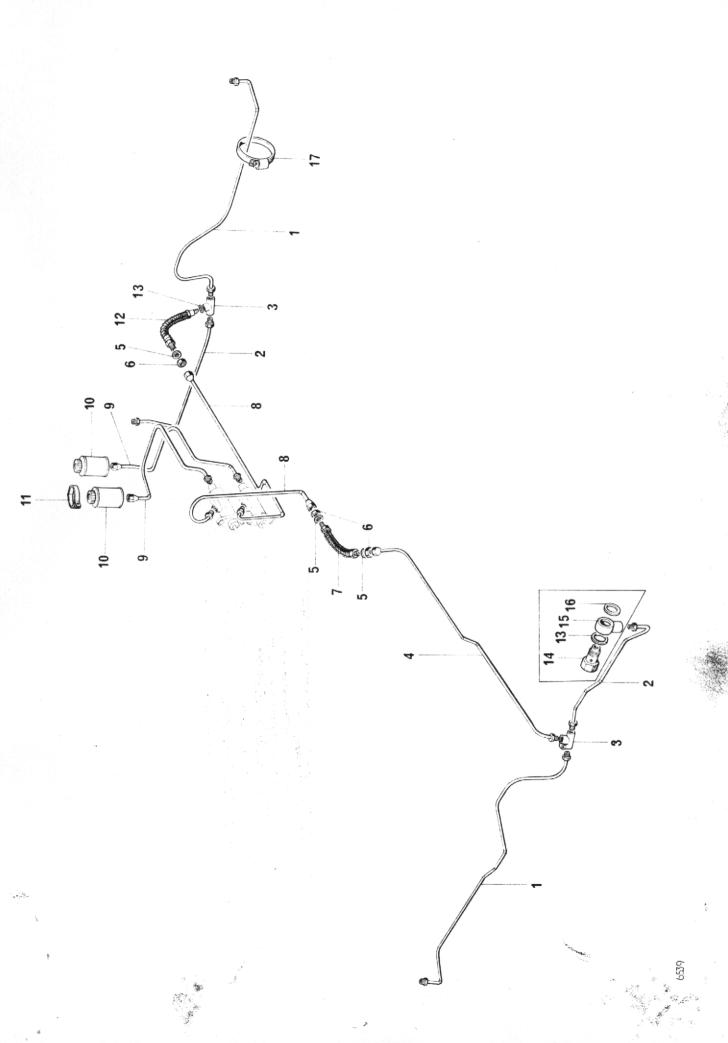
CALIPER ASSEMBLY

Item No.	Part No.	Description	No. Off
1	CB90262	Caliper Assy. Complete L.H. Front R.H. Rear	2
2	CB90263	Caliper Assy. Complete R.H. Front L.H. Rear	2
3	VB05505	Piston & Cylinder Assy.	8
4	VB08378	Bleed Screw & Ball Assy.	4
4A	CB0849	Dust Cover (Bleedscrew)	4
5	VB05133	Plate, Support	8
6	CB60253	Body, Caliper R.H. Front L.H. Rear	2
7	CB60252	Body, Caliper L.H. Front R.H. Rear	2
8	VB08491	Nut, Bolt & Washer (Keep Plate)	4
9	VB05123	Keep Plate	4
10	CB20554Y	Friction Pad Complete (Set of 4)	2 sets
11	VB08210A	Seal Kit (Dust & Piston)	8
12	VB03927	Bridge Pipe Assy. R.H. Front L.H. Rear	2
13	VB03926	Bridge Pipe Assy. L.H. Front R.H. Rear	2
14	VB06008	Banjo Bolt 3" UNF	4
15	VB06113	Washer, Copper	4
16	VB06212	Banjo ₃ ″ UNF	4
17	VB06112	Washer, Copper	4
18	VB06101L	Shakeproof Washer	32
19	VB05100	Bolt, Retaining (Cylinder)	32
. •		- cry riotaning (cylinder)	



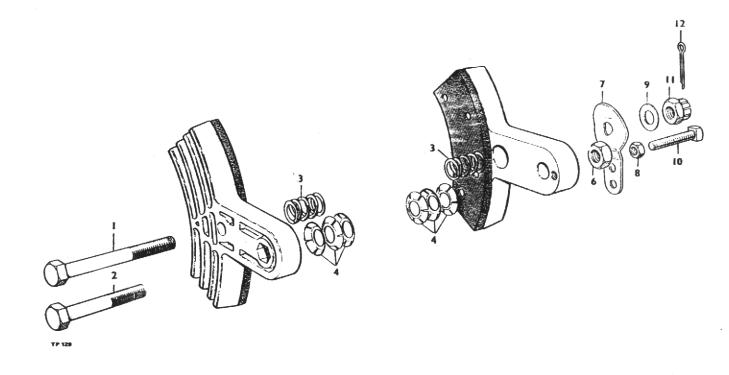
HANDBRAKE CALIPER

Item No.	Part No.	Description	No. Off
	CB90256	Handbrake R.H. (Complete)	
	CB90257	Handbrake L.H. (Complete)	
1	CB20258	Nut, Adjustment	2
2	VB08307	Spring, Friction	2
3	VB06135D	Split Pin	2
4	VB08315	Pin, Hinge	2
5	CB20526	Lever Assy.	2
6	VB07329	Spring, Return	2
7	VB07330	Anchor, Spring	2
8	VB06050	Nut, 2BA	4
9	VB06101F	Washer	4
10	VB08308	Pivot, Seat	2
11	CB60249/8308	Carrier Pad Assy. (Inner c/w Seat Pivot)	2
12	VBC4124	Bolt	4
13	CB20311/Y	Friction Pad (4 per set)	1 set
14	VBM4635/1	Plate, Retraction	2
15	VB04226	Washer, Tab	2
16	VB04190	Bolt	4
17	VBM4573	Carrier Pad (Outer)	2
18	VB06158/G	Split-Pin	2
19	CB20289	Bolt	2



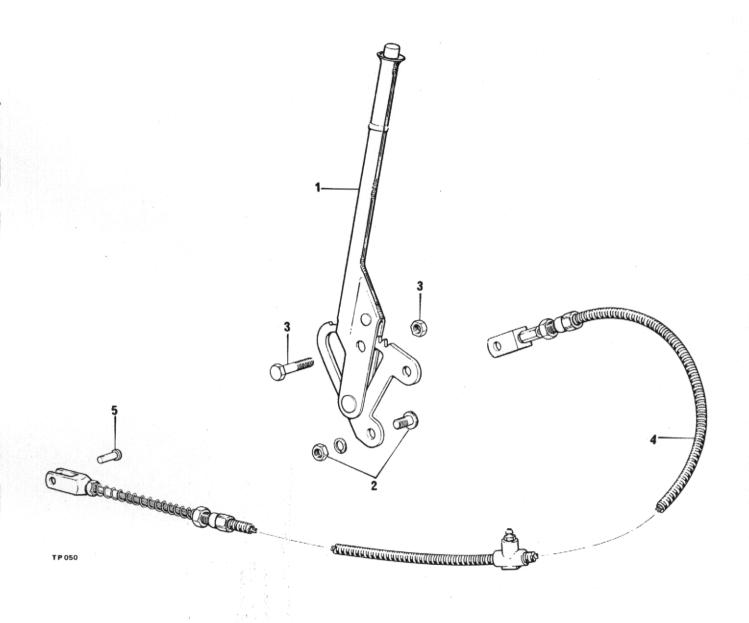
BRAKES - PIPES AND FITTINGS

Item No.	Part No.	Description	No. Off
1	64474422	Pipe - 45"	2
2	64473383	Pipe - 21"	2
3	64474341	Tee Piece	2
4	3609830W	Pipe - 49"	1
5	64140087	3" Shakeproof Washer	3
6	64100050	Nut	3
. 7	64046115	Flex pipe - 9½"	1
8	64473434	Pipe - 38"	2
9	3424240W	Pipe - 21"	2
10	64046158	Header Tank	2
11	64477544	Clip, Bolt and Nut	2
12	64047903	Flex Pipe - 11"	1
13	378700	Washer	5
14	376102W	Bolt	4
15	64474287	Banjo	4
16	378703	Washer	4
17	4-350S	Clip	4



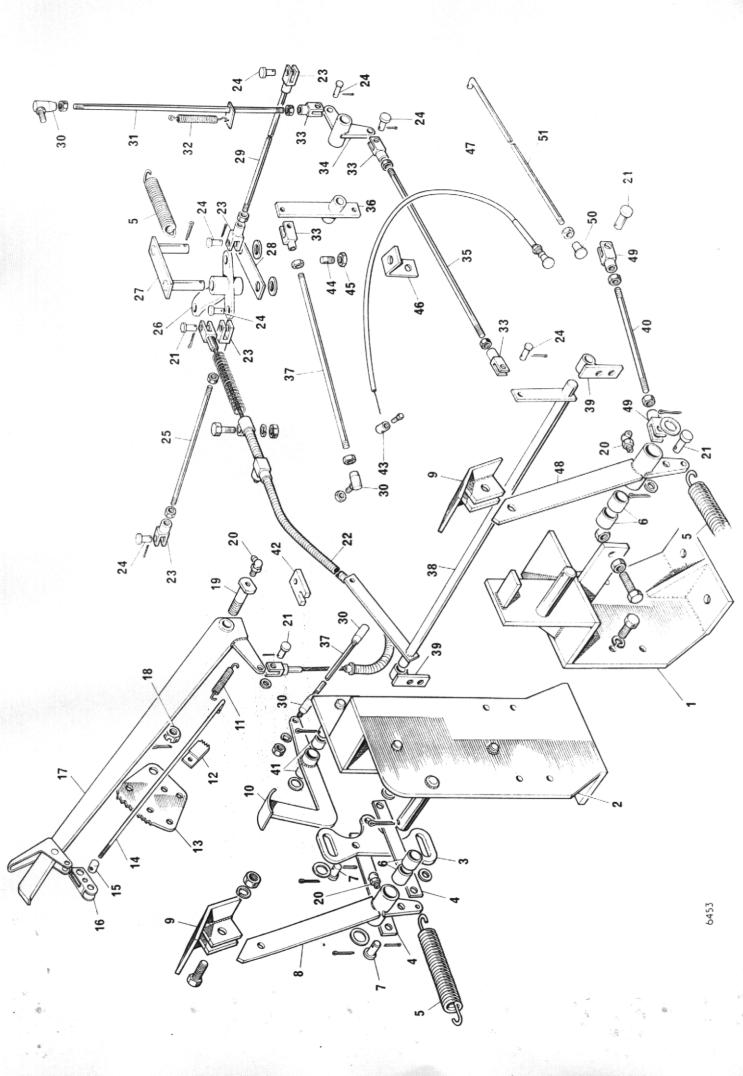
CALIPER, parking brake

Item	Part no	Description	Qty
1A	10578A01 🗐	CALIPER, one pair, assembly	
1	28S02T	SCREW SCREW	1
2	28S02P	SCREW	1
3	10578A0101	SPRING, centring	1
4	10578A0102	WASHER, tension	2
6	9S02	NUT	6
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
		L VO CAM LINAIS	2



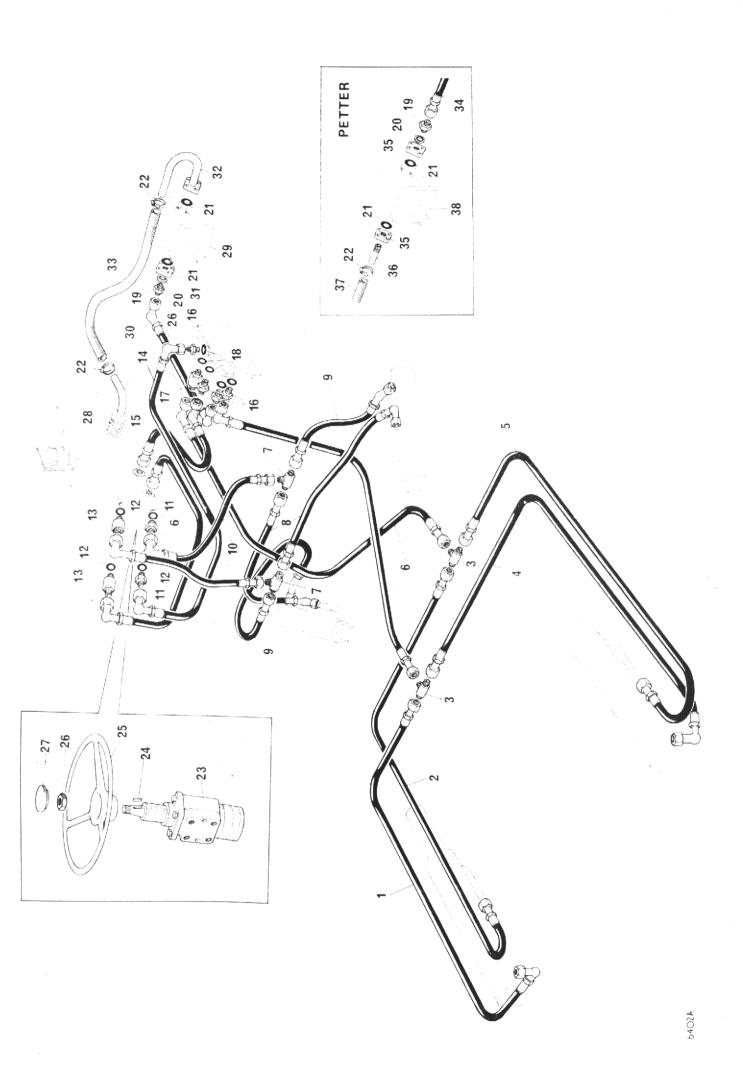
TRANSMISSION HANDBRAKE ASSEMBLY

Item No.	Part No.	Description	Qty.
1 2 3	303	Handbrake Assembly	2
4	4-60-254 4-35-264	Brake Cable	_



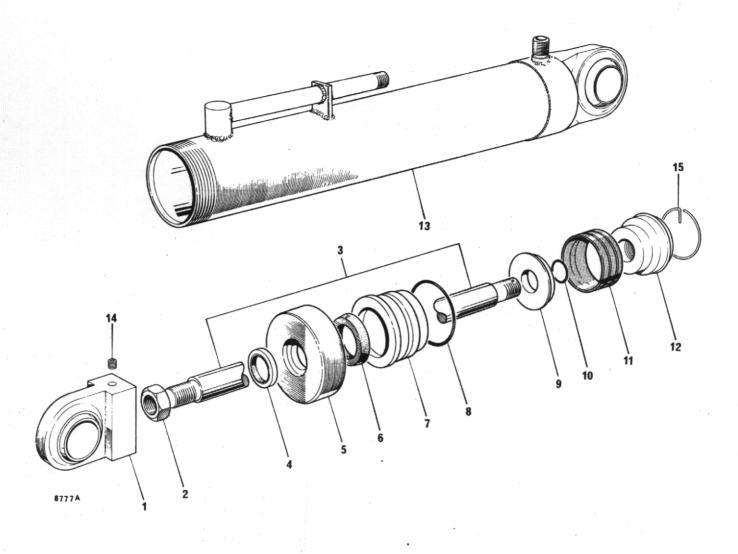
PEDALS AND CONTROLS

Item No.	Part No.		Description	No	o. Off
1	4/60-169		Gearbox Bracket - L.H.		. 1
2	4/60-168		Gearbox & Brake Cylinder Bracket - R.H.		1
3	4/60-119		Footbrake Balance Arm		1
4	4/60-193		Footbrake Balance Arm Link		2
5	C173-B		Return Spring		3
6	WB1212		Pedal Bush		4
7	C174XL		Clevis Pin		2
8	4/60-129		Brake Pedal		1
9	4/60-130		Pedal Pad		2
10	4/60-127		Accelerator Pedal		1
11	12873-A		Spring, Handbrake		1
12	6266-A		Pawl, Handbrake		1
13	F517-A		Quadrant, Handbrake		1
14	10291-C		Rod, Handbrake		1
15	000022-A		Pin, Handbrake Latch Pivot Arm		1
16	14425-A		Arm Handbrake Latch Pivot		1
17	4/60-141		Handbrake Lever, Complete		1
18	4/00-141		¹ UNF Slotted Nut - (Handbrake Carrier)		1
19	F517B		Bolt - Handbrake Carrier		1
20	T90		Grease Nipple - (90°)		3
21	C174X		Clevis Pin		4
22	4/35-44		Handbrake Cable		1
23	C174E		Clevis		4
24	C174E		Clevis Pin		7
25	4/60-155				
26 26			Brake Rod (Short) 12" x 5"		1
20 27	4/35-227 C271		Compensator Link Arm		1
28	C189-A		Compensator Link Arm		1
29			Compensator Link		1
30	4/60-154 C160B		Brake Rod (Long) 34" x %" Accelerator Rod Ball Ends		1
31	C240				3
32	C173D		Accelerator Rod (Lister)		1
33			Spring (Lister)		1
34	C174D		Clevis Bell Crank (Lister)		3
35	4/60-164				1
	4/60-165		Accelerator Rod		1
36	4/60-237		Accelerator Transfer Lever (Petter)		1
37	4/60-167		Accelerator Rod (Lister)		1
37	4/60-167		Accelerator Rod (Petter)		2
38	4/60-221	A)	Accelerator Transfer Shaft		1
39	4/60-162		Accelerator Transfer Shaft Bracket		2
40	F506B		Clutch Rod		1
41	WB0808		Bush		2
42	4/60-235		Handbrake Cable Retainer		1
43	4/35-196		Solderless Nipple (Petter)		1
44	4/60-242		Clamp Screw (Petter)		1
45	4/60-241		Hex. Nut 3" UNF (Petter)		1
46	4/60-236		Cable Bracket (Petter)		1
47	4/60-239		Control Cable (Petter)		1
48	4/60-128		Clutch Pedal		1
49	C174		Clevis		2
50	4/60-243		Knob 4" UNF (Lister)		1
51	4/60-225		Engine Stop Control Rod (Lister)		1



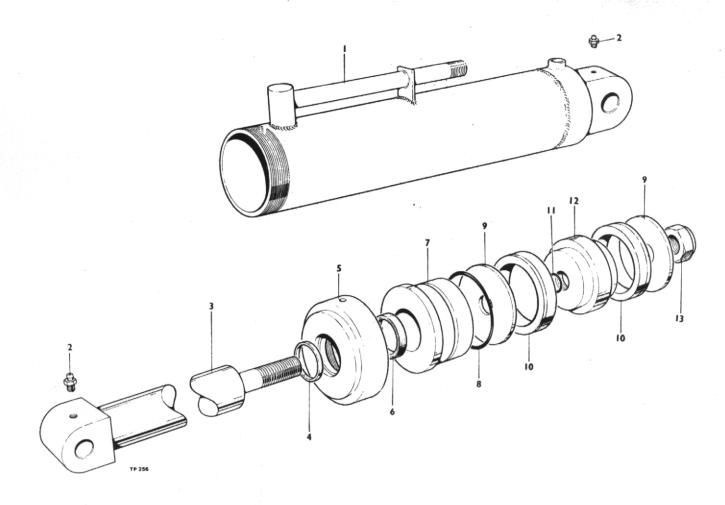
HYDRAULIC SYSTEM

Item No.	Part No.	Description	No. Of
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	4/60-135 4/60-136 2ST-72-M 4/60-137 4/60-138 T63-E 4/60-207 4/35-108-H 4/60-134 4/60-133 4/35-40K 2ST-72J 4/60-115 4/60-115 4/60-159 4/60-158 S9698 T63K T14J T14H T14 I DH-25-19	Hose 77" Long ST90° Hose 71" Long STST Tee Hose 61" Long ST90° Hose 80" Long STST Hose 73" Long ST90° Tee Hose 33½" Long ST90° Hose 15" Long ST90° Hose 48" Long ST90° Adaptor (Short) $\frac{3}{8}$ " BSP x $\frac{3}{4}$ " UNF 'O' Ring Adaptor (Long) $\frac{3}{8}$ " BSP x $\frac{3}{4}$ " UNF Hose 73" Long ST90° Adaptor $\frac{3}{8}$ " BSP x $\frac{3}{8}$ " UNF Hose 73" Long ST90° Adaptor $\frac{3}{8}$ " BSP x $\frac{2}{8}$ " J.I.C. Adaptor (Long) $\frac{3}{8}$ " BSP x $\frac{2}{8}$ " J.I.C. O' Ring Adaptor $\frac{3}{8}$ " x $\frac{1}{8}$ " BSP (All Petters and Lister up to m/c No.1060) Adaptor $\frac{3}{8}$ " x $\frac{3}{8}$ " BSP (Lister, from and including m/c No.1061) Sealing Washer (All Petters and Lister up to m/c No.1060)	No. Off 1 1 2 1 1 3 2 2 2 2 4 2 1 1 1 5 1 1 1 1 1
22 23 24 25 26 27 28	DH-410 T63M osp315 No.9 153 4/60-247 153A UC1457	'O' Ring (Lister, from and including m/c No.1061) Clip Steering Valve Woodruff Key Steering Wheel Steering Wheel Nut Steering Wheel Cap Suction Filter	1 1 1 1 1 1 1 1 1
20	001437	4/60 LISTER	1
29 30 31 32 33	GP265AU IP3072ATDFB 3SH62 PD4352-21A 4/35-261 4/60-245 4/35-259 4/60-160	Hydraulic Pump (Fitted up to m/c No.1060) Hydraulic Pump (Fitted from and including m/c No.1061) Hose 47" Long 90°—90° Adaptor Outlet (For GP265AU Pump) Adaptor Outlet (For IP3072ATDFB Pump) Pump Adaptor (For GP265AU Pump) Pump Adaptor (For IP3072ATDFB Pump) Hose, 3" Cotton Braid	1 1 1 1 1 1 1
		4/60 PETTER	
34 35 36 37 38	4/60/139 PD4352-21A T48 4/60-161 GP265 AU	Hose, 37" Long ST90° Adaptor Tube Hose, 3" Cotton Braid Hydraulic Pump	1 2 1 1



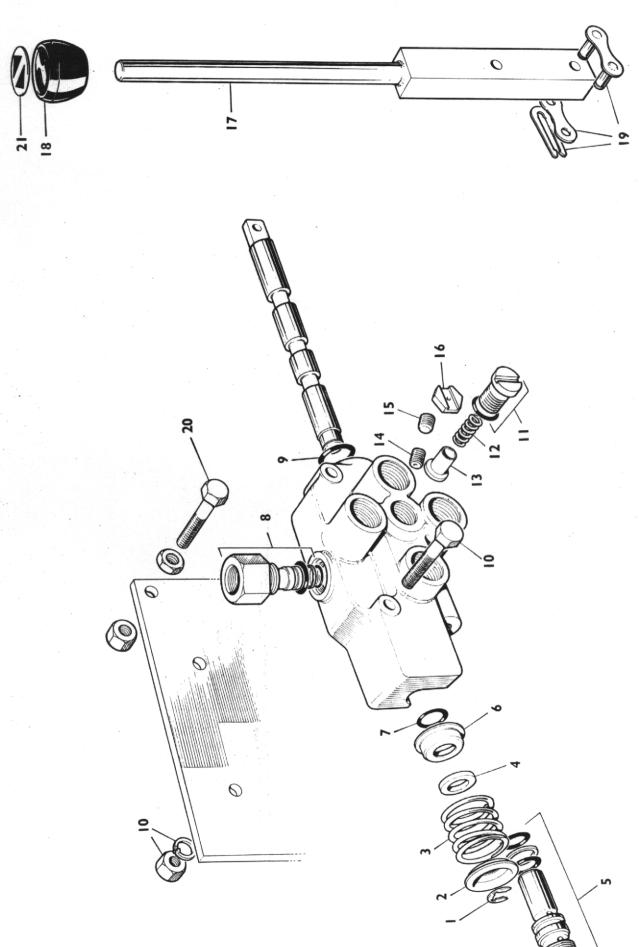
STEERING RAM

Item No.	Part No.	Description	Otv
1 2 3	T[=]34 K1/11 K1/19 K1/2	Ram Complete (2 Per Machine) Piston Rod Fitting Locknut	1
4 5	K1/18 K1/4	Piston Rod Wiper Tube Cap	1
6 7	K1/17 K1/5	Tube Cap	. 1
8 9	K1/16 K1/15	Sleeve	. 1
10 11	K1/13 K1/12	Piston 'O' Ring Piston Seal	1
12 13	K1/14 K1/20	Cylinder, Bosses & End Cap	. 1
14 15	K1/21 K1/22 CSE 189	Grub Screw	. 1



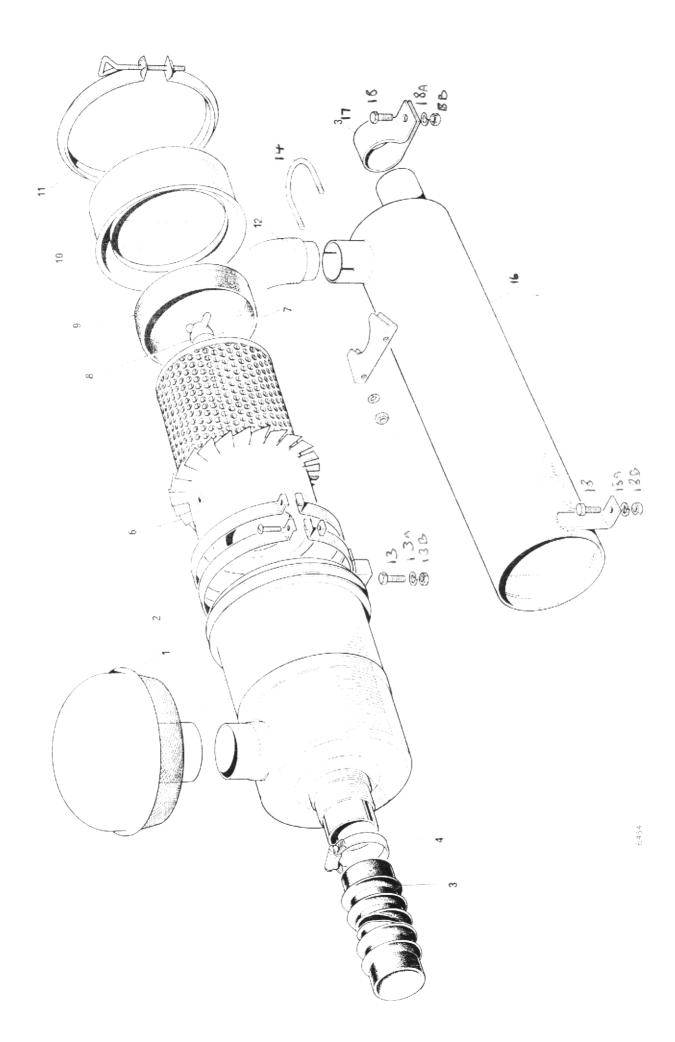
TIPPING RAM

Item No.	Part No. Description								
1 2 3 4 5 6	3 BE3-21 BE3-20 BE3-22 BE3-15 BE3-6 BE3-16 BE3-7	Cylinder Assembly Complete (Two per m/c) Cylinder Body Grease Nipple Piston Rod Assembly Wiper Tube Cap Sleeve Seal Sleeve	. 2 . 1 . 1 . 1						
8	BE3-13	Sleeve 'O' Ring	. 1						
9 10 11 12	BE3-10 BE3-14 BE3-12 BE3-9	Backing Washer Piston Seal Piston 'O' Ring Piston Head	. 2 . 2 . 1 . 1						
13	BE3-11 CSE 190	Lock Nut							



HYDRAULIC CONTROL VALVE

Item No.	Part No.	Description	Qty.
	300-024-GAA	Valve Assembly Only, Complete	. 1
1	16124-50	Clip Ring	. 1
2	15546-6	Washer, Shallow	. 1
3	30501-39	Spring, Spool	. 1
4	16048-31		
5	32018-J9		
6	30501-10		
7	100-146-012		
8	30501-15		
9	10 <mark>0-</mark> 147-063	'O' Ring	, 1
10			
11	30 ວັ 1–17		
12	30501-13		
13	30501-12		
14	300024004		
15	16062-1		
16	16097-451		
17	4-60-316		
18	F4-45-184		
19	4-60-178		
20			
21	DM 156	Label	. 1
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	32018–J9 30501–10 100–146–012 30501–15 100–147–063 = 30501–17 30501–13 30501–12 300024004 16062–1 16097–451 4–60–316 F4–45–184 4–60–178	Bolt, 3/8" BSF x 2" long and Nuts	. 1 . 1 . 1 . 1 . 2 . 1 . 1 . 1 . 1



AIR CLEANER AND EXHAUST SYSTEM

Item No.	Part No.	Description	Qty.
	10532A05	Air Cleaner Assembly, comprising o	of items
		5,6,7,8,9,10 & 11	1
1	V2003201	Stack Cap	1
2	V2003271	Bracket	2
3	460190	Hose Connecting-Lister	1
	460191	Hose Connecting-Petter	1
4	97S12	Clip Hose	2
6	V600484	Element Air Filter 8"	1
7/8	V600487	Nut & Gasket Kit	1
9	DU766	Baffle	1
10	DU769	Cup Assembly	1
11	DU420	Clamp Assembly	1
12	460232	Manifold Adaptor-Petter only	1
13	11S02C	Screw Set M6	4
13A	17S03	Washer Spring	4
13B	7S02	Nut M6	4
	E	XHAUST SYSTEM (PETTER)	
13	460147	Pipe Flexible	1
14	153S12	Clamp Exhaust	2
16	460248	Silencer	1
17	460149	Clip	1
18	8S04C	Screw Set M10	2
18A	17S0 5	Washer Spring M10	2
18B	7S04	Nut M10	2
	E	EXHAUST SYSTEM (LISTER)	
42	400440	Dina Flavible	1
13 14	460146 453543	Pipe Flexible	=
16	153S12 460142	Clamp Exhaust Silencer	1 1
16	460142 460149	Clip	1
17	460149 8S04C	Screw Set M10	
18A	17S05		2 2
18B	7S04	Washer Spring M10 Nut M10	2
IOD	1304	INUL IVI IU	4

DECIMAL, FRACTIONAL AND METRIC EQUIVALENTS

Inches				Milli-	The second	Milli-		
Fractions Decimals		metres		Fractions	Decimals	metres		
			0.015625	0.397	33/64		0.515625	13.097
	1/32 -		0.03125	0.794		17/32	0.53125	13,494
3/64 -			0.046875	1.191	35/64		0.546875	13.891
		1/16 —	0.0625	1.588		9/	16 - 0.5625	14.288
5/64 -			0.078125	1.984	37/64		0.578125	14.684
	3/32 -	1,00	0.09375	2.381			0.59375	15.081
7/64 -			0.109375	2.778	39/64		0.609375	15.478
		1/8 -	0.125	3.175		5/	8 0.625	15.875
9/64 -			0.140625	3.572	41/64		0.640625	16.272
	5/32 -		0.15625	3.969		21/32	0.65625	16.669
1/64 -			0.171875	4.366	43/64		0.671875	17.066
		3/16 -	0.1875	4.763		11/	16 - 0.6875	17.463
3/64 —			0.203125	5.159	45/64		0.703125	17.859
	7/32 -			5.556			0.71875	18.256
			0.234375	5.953	47/64		0.734375	18.653
-,		1/4 —		6.350		3	/4 0.750	19.050
7/64 —			0.265625	6.747	49/64		0.765625	19.447
.,				7.144	45/04		0.78125	19.844
9/64	0/02		0.296875	7.541	51/64	20/32		20.241
3,04		5/16 —		7.938	31/04		16 - 0.8125	20.638
1/64 —		3/10	0.328125	8.334	53/64	13/	0.828125	
.1/04	11/32 _		0.320125	8.731	55/04	27/32		21.034
3/64	11/32		0.359375	9.128	55/64		0.859375	21.431
.3/04				9.525	55/64		이 가면 되는 이 에를 위한다고 그렇게 하는데	21.828
25/64 —		3/6	0.375 0.390625	9.922	57/64	7,	0.890625	22.225
.5/04 —	13/32 —		0.40625	10.319	57/04		0.000020	22.622
7/64 —	13/32 —				E0/04	29/32	[1] 1 [1] 1	23.019
7/04 —			0.421875	10.716	59/64		0.921875	23.416
9/64		7/16 —	0.4375	11.113	01/01		16 0.9375	23.813
9/04	1E/22		0.453125	11.509	61/64		0.953125	24.209
14/04	15/32 —		0.468/5	11.906	00/0-	31/32	0.96875	24.606
31/64 —			0.484375	12.303	63/64		0.984375	25.003
		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	177.80	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