

OPERATING INSTRUCTIONS & SPARE PARTS LIST

3SHD DIESEL DUMPER (CAPACITY 22.5 CWT)

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INTRODUCTION

This Parts & Operators Manual is a re-print of the manual last published in 1977 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 3SHD 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.

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 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.

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.

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:

- 1 The combined weight of the trailer and its load does not exceed the 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

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 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.

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

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

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 Axle

Remove level/filler plug (C) and check that oil is up to bottom of hole. Top up if necessary. See also 'Recommended Lubricants', page 14

4. Fuel Tank

Fill tank (D) 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 (E). 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

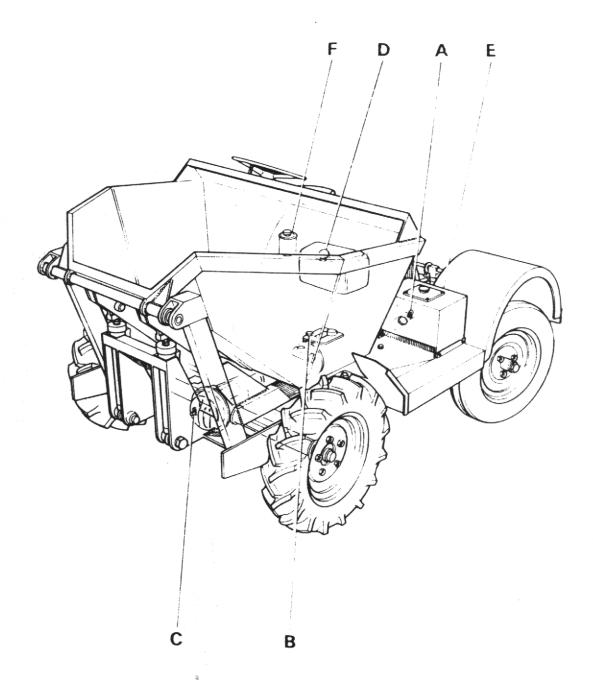
Ensure that the brake master cylinder reservoir (F) if full of brake fluid. Top up if necessary, to within 1/4" of the top of the reservoir. Use only Girling Crimson Brake Fluid.

NOTE: Hydraulic disc brakes are fitted only as an optional extra on the 3S HD. Mechanical drum brakes are standard.

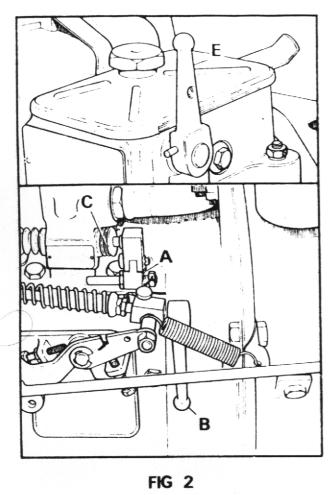
7. Miscellaneous

Check all wheel nuts for tightness.

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



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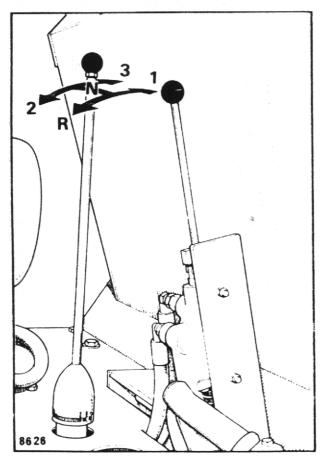


FIG 4

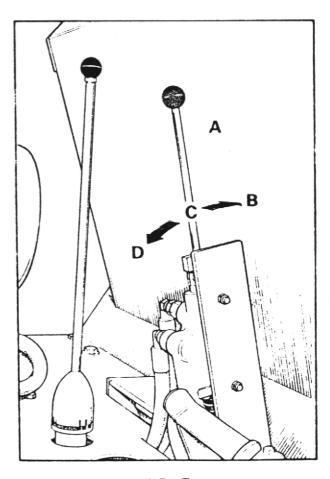


FIG 5

OPERATION

Starting

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.

- 3. Lift decompression levers (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 levers 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.

Stopping

Fig. 2 (Petter); Fig. 3 (Lister)

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

Push overload lever 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.

Gear Shift Lever

Fig. 4

The dumper is fitted with three forward gears and one reverse gear. When changing gear, the clutch pedal is used in the normal manner.

Skip Control Lever

Fig. 5

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

NOTE: If lever is released when in DUMP or RETURN positions, 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.

GENERAL MAINTENANCE

Lubrication Fig. 6

| Daily | | | No. of points |
|--|----|--|---------------|
| | 1 | Engine oil | 1 |
| | 2 | Fuel Tank | 1 |
| Week | ly | | |
| | 3 | Gearbox - oil | 1 |
| | 4 | Drive Axle - oil | 1 |
| | 5 | Hydraulic Tank — oil | 1 |
| | 6 | Brake Master Cylinder Reservoir (where fitted) | • |
| | | brake fluid | 1 |
| | 7 | Footbrake Pedal – grease | 1 |
| | 8 | Clutch Pedal — grease | 1 |
| | 9 | Clutch Cross Shaft – grease | 3 |
| | 10 | Drive Axle Hubs — grease | 2 |
| The state of the s | 11 | Steering Axle & Ball ends – grease | _ |
|) | 12 | Steering Box — oil | 8 |
| | 13 | Skip Pivot – grease | 1 |

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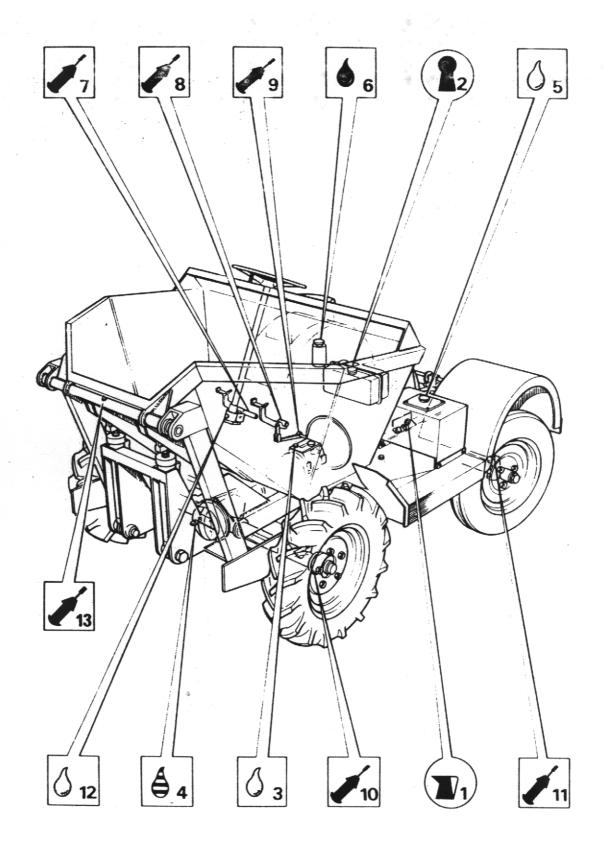
- NOTES:- 1. Rear Axle Articulation Points consist of silentbloc bushes and do not require lubrication.
 - For full details on the lubrication and maintenance of the engine refer to the manufacturer's manual.

Recommended Lubricating Oils

See page 14.

Periodic Maintenance

- DAILY check engine oil level and fill to full mark on dipstick, if necessary.
- 2. DAILY fill fuel tank, Never allow there to be a depth of less than 2" of fuel in tank.
- WEEKLY check oil level in gearbox and fill to full mark on dipstick, if necessary.
- WEEKLY remove level/filler plug from drive axle. Oil level should be to bottom of hole. Top up, if necessary.
- WEEKLY check oil level in hydraulic tank. Always clean 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 in master cylinder reservoir and top up if necessary, to within 1/4" of top, if hydraulic disc brakes are fitted.
- 7. WEEKLY apply grease to all grease nipples.
- 8. WEEKLY check all wheel nuts and tighten, if necessary
- 9. OCCASIONALLY check all nuts and bolts and tighten, if necessary.



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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.

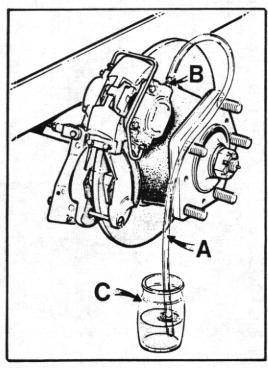
To bleed the system, proceed as follows:-

- 1. Check that all connections are tight and all bleed screws are closed.
- Fill reservoir with brake fluid.
- 3. Attach bleeder tube (A) (See fig. 5) 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.
- 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.
- 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. 6)

- Ensure handbrake is fully off.
- 2. Pull off rubber cover from brake adjuster (A).
- Screw adjuster clockwise until brakes are fully on.
- 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,



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FIG. 5

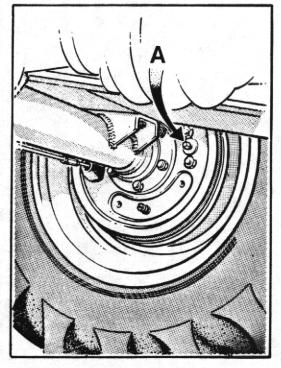


FIG. 6

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.

1. Check that hydraulic tank is full of oil.

Fig. 9

- 2. a) Remove four setscrews (A) securing filler cap assembly (B) and remove assembly.
 - b) Unscrew suction filter (C) from inside of 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 throughly cleaned, fit a new one.

- 3. Check that hydraulic pressure is correct.
 - a) Fit a 2500 p.s.i. gauge into hydraulic line to base of rams.
 - b) Operate control lever to dump skip and check that pressure reading on gauge is 2000 p.s.i. when ram is fully-extended and relief valve is 'blowing'.

Fig. 10

- 4. 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 orifice. Re-fit plate and hose adaptor, with slot of orifice plate facing outwards.

If none of these procedures correct the fault, contact your local Winget agent.

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

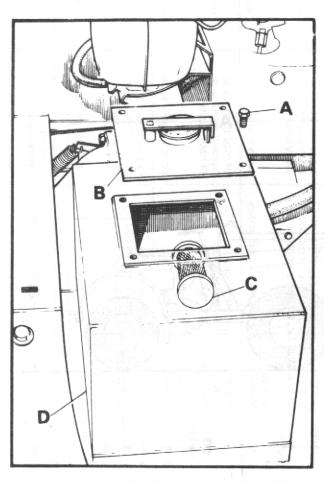


FIG 9

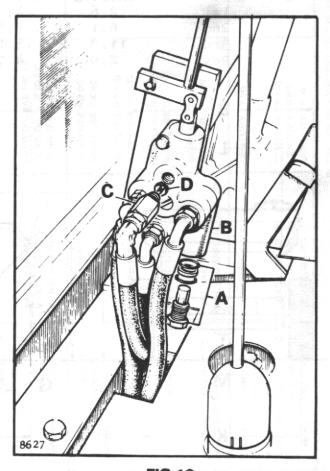


FIG 10

SPECIFICATION PETTER 3S HD DUMPER Fig. 10

| Dimension | | |
|--|------------------------|--------------------------|
| A. Overall Height | 4' 7! " | (1.41m) |
| B. Skip Loading Height | 4′ 1 <i>"</i> | (1.24m) |
| C. Wheelbase | 5′ 0" | (1.52m) |
| D. Overall length | 8′ 10" | (2.69m) |
| E. Ground Clearance | 9½" | (0.24m) |
| F. Overall Width | 5′ 3 ″ | (1.60m) |
| G. Skip ground clearance when tipped | 3' 8½" | (1.13m) |
| H. Overall height tipped | 7' 11" | (2.41m) |
| Skip discharge distance/Reach from axle centre | 2′ 4" | (0.71m) |
| K. Wheel track | 4′ 7" | (1.39m) |
| L. Skip discharge width | 1′ 8" | (0.51m) |
| Turning circle | 21'0" | (6.4m) |
| Vehicle Weight | 1 ton 4 cwt | (1219kg) |
| Hydraulic relief valve | 2000lb/in ² | (140kg/cm ²) |
| Working pressure | 1500lb/in ² | (105kg/cm ²) |
| Rear axle articulation | 1′ 2″ | (0.35m) |
| Skip Capacities: | | |
| Water level | 20ft ³ | $(0.56m^3)$ |
| Struck level | 23.5ft ³ | $(0.67m^3)$ |
| Heaped | 28ft ³ | $(0.79m^3)$ |
| Maximum payload | 1 ton 2cwt 2q | (1143kg) |
| | • | 3, |

Tank Capacities
Diesel fuel tank

| Petter | 1½ imp. gallons (6.8 litres) |
|--------------------|------------------------------|
| Hydraulic oil tank | 4 imp. gallons (18 litres) |

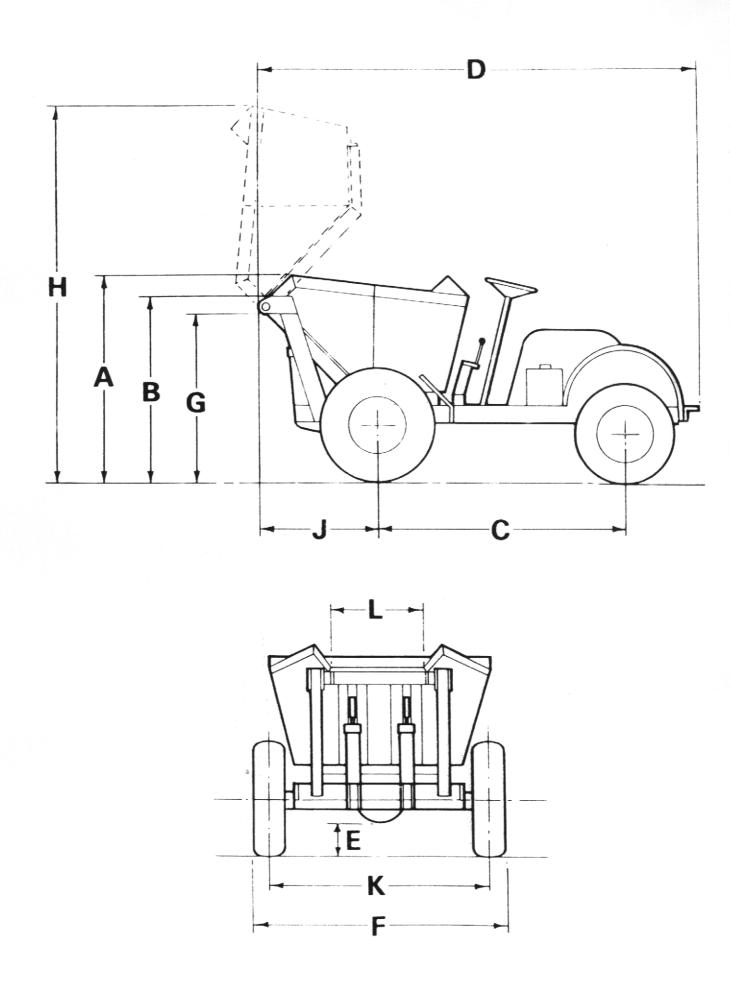


FIG 10

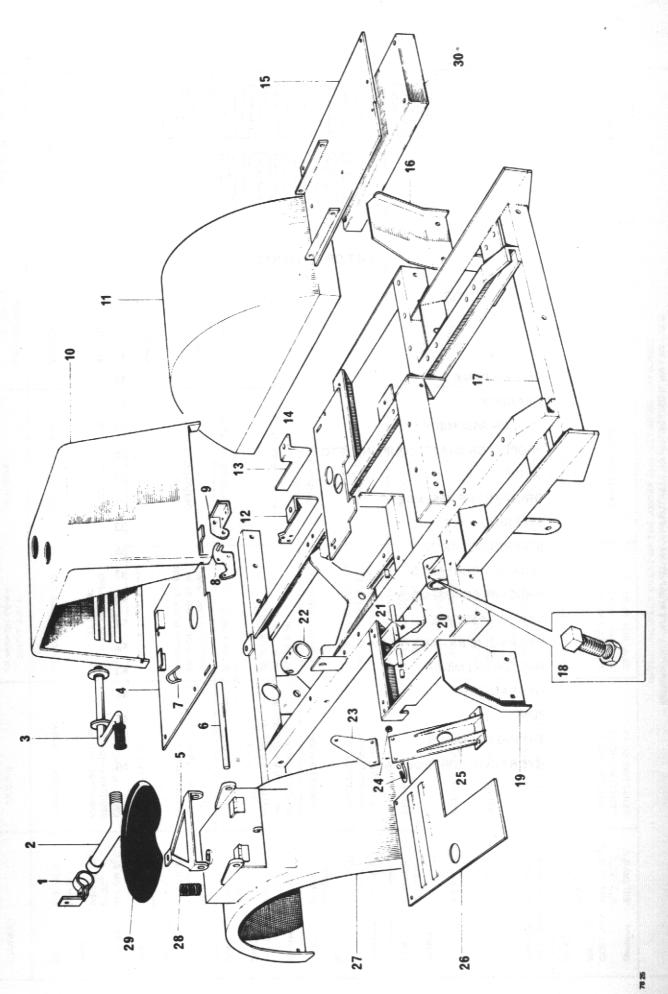
RECOMMENDED LUBRICATING OILS

| | | ENGINE | TRANSFER BOX & DRIVE AXLE | GEARBOX | WHEEL BEARINGS & OTHER GREASE POINTS | HYDRAULIC SYSTEM |
|--|-------------------------------------|--|---|-------------------|--|-------------------------------------|
| SUMMER | SUMMER | ESSOLUBE HDX 20W | GEAR OIL GP 90/140 | ESSOLUBE HDX 30 | BEACON 2 | NUTO H44 |
| ABOVE O-32 ⁰ (Overgees) BELOW | ABOVE 32°C 0-32° BELOW 0°C | ESSOLUBE HDX 30 ESSOLUBE HDX 20W ESSOLUBE HDX 10W | GEAR OIL GP 140 GEAR OIL GP 90/140 GEAR OIL GP 80 | ESSOLUBE HDX 30 | BEACON 2 | NUTO H 54 NUTO H 44 NUTO H 40 |
| | SUMMER | DEUSOL CRB 20 | DEUSOL GEAR EP 90 | DEUSOL CRB 30 | CASTROL SPHEEROL APT 2 | |
| CASTROL ABOVE 0-32°C BELOW | ABOVE 32°C 0-32°C BELOW 0°C | DEUSOL CRB 30 DEUSOL CRB 20 DEUSOL CRB 10 | DEUSOL GEAR EP 140 DEUSOL GEAR EP 90 DEUSOL GEAR EP 80 | DEUSOL CRB 30 | CASTROL SPHEEROL APT 2 | CASTHOL HYSPIN AWS 32 |
| SUMMER | SUMMER | ROTELLA SX QJL 20/20W | SPIRAX 90 EP | ROTELLA SX OIL 30 | RETINAX A | |
| SHELL ABO' 0-32 (Oversees) BEL(| ABOVE 32°C 0-32°C BELOW 0°C | ROTELLA SX OIL 30 ROTELLA SX OIL 20/20W ROTELLA SX OIL 10W | SPIRAX 140 EP SPIRAX 90 EP SPIRAX 80 EP | ROTELLA SX OIL 30 | RETINAX A | TELLUS OIL 27 |
| SUMMER | SUMMER | VANELLUS M20W | GEAR OIL SAE 90 EP | VANELLUS M30 | ENERGREASE L2 | |
| ABOVE: 0-32°C (Overseas) BELOW | ABOVE 32°C 0-32°C BELOW 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 | ENERGOL HLP 65 |
| SUMMER | SUMMER | DELVAC 1220 | MOBILUBE HD 90 MOBILUBE GX 90 | DELVAC 1230 | | |
| ABO | ABOVE 32°C | DELVAC 1230 | MOBILUBE HD 140 MOBILUBE GX 140 | | MOBILGREASE MP | DTE 24 |
| 0-32 ₀ c | 2 ₀ C | DELVAC 1220 | MOBILUBE HD 90 MOBILUBE GX 90 | | SOPEH | |
| (Overses) BELOW 0 ⁰ ALL TEMPERATURES | BELOW 0°C | DELVAC 1210 DELVAC SPECIAL 10W-30 | MOBILUBE GX 80 | DELVAC 1230 | | |
| | SUMMER | CENTLUBE HD 20 | CENTURY EP 90 | CENTLUBE HD 30 | REGULUS A2 | CENTURY PWLA HYD OIL |
| WALKERS CENTURY ABOY 0°C- Oversess BELC | ABOVE 32°C 0°C-32°C BELOW 0°C | CENTLUBE HD 30 CENTLUBE HD 20 CENTLUBE HD 10 | CENTURY EP 140 CENTURY EP 90 CENTURY EP 80 | CENTLUBE HD30 | REGULUS A2 | CENTURY PWLA HYD OIL |

SPARE PARTS SECTION

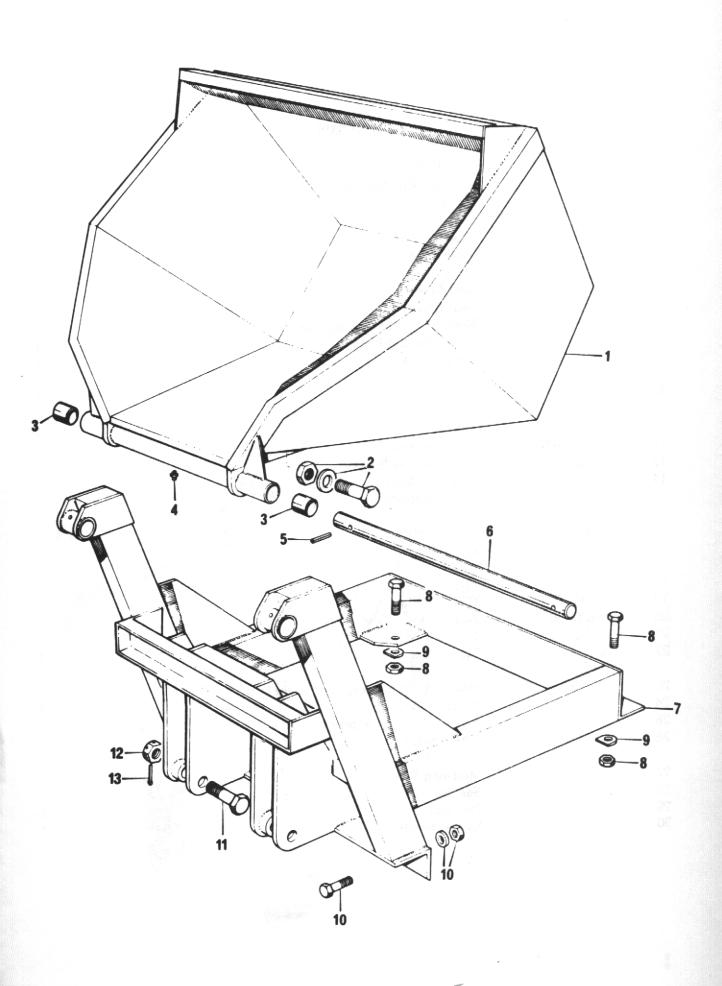
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CHASSIS

| Item No. | Part No. | Description | No. Of |
|----------|------------|----------------------------------|---------------------------------------|
| 1 | L 315 | Exhaust Pipe Support | 1 |
| 2 | L 288 | Exhaust Pipe | 1 |
| | | | 4 |
| 3 | L 294 | Starting Handle | 1 |
| 4 | 3SH 57 | Rear Cover | 1 |
| 5 | 5ST 80 | Seat Frame | 1 |
| 6 | 4/35 79 | Seat Rod | 1 |
| 7 | L 287 B | Starting Handle Clip and Spring | : 1 |
| 8 | 3SH.79 | Pump Bracket Plate | 1 |
| 9 | 3SH.80 | Pump Bracket | 1 |
| J | | Tamp Bracket | |
| 10 | L 260 | Engine Cover | 1 |
| 10 | L 200 | Eligilie Cover | |
| 11 | L 252 B | Mudwing L H | 1 |
| 12 | | Mudwing — L.H. | 1 |
| | L 290/RH | R.H. Gearbox Support | 1 |
| 13 | L 290/LH | L.H. Gearbox Support | 1 |
| 14 | 3SHD 57 | Gearbox Cover | 1 |
| 15 | 3SH 58 | L.H. Footplate | |
| 16 | 3SHD 53 LH | L.H. Mudflap | 1 |
| 17 | 3SHD 71 | Chassis | 1 |
| 17 | 35ПД / 1 | Cridssis | · · · · · · · · · · · · · · · · · · · |
| 18 | C 212 | Lock Screw and Nut | 2 |
| 19 | 3SHD 53 RH | R.H. Mudflap | . 1 |
| 20 | WB 0808 | Accelerator Holder Bush | 2 |
| 21 | T/ST | Grease Nipple | 1 |
| 22 | L 259 P | Starter Dog | 1 |
| 23 | C 263 | Header Tank Bracket (Disc Brake) | 1 |
| 24 | C 125 | 'U' Bolt and Nuts | 1 |
| 25 | C 117 | Steering Column Support | 1 |
| 26 | L 286 | R.H. Footplate | · 1 |
| 20 | L 200 | n.n. Footplate | • |
| 27 | 40059A01 | Mudwing R.H. | 4 · ; · · · · · 1 |
| 28 | 5ST 99 | Seat Spring | 1 |
| 29 | V2000954 | Pan Seat | 1 |
| 30 | L254 | Ballast Weight | 1 |

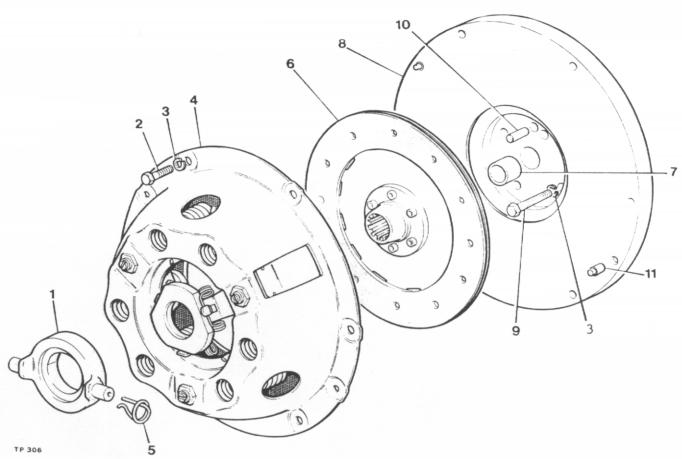


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SKIP & FRAME

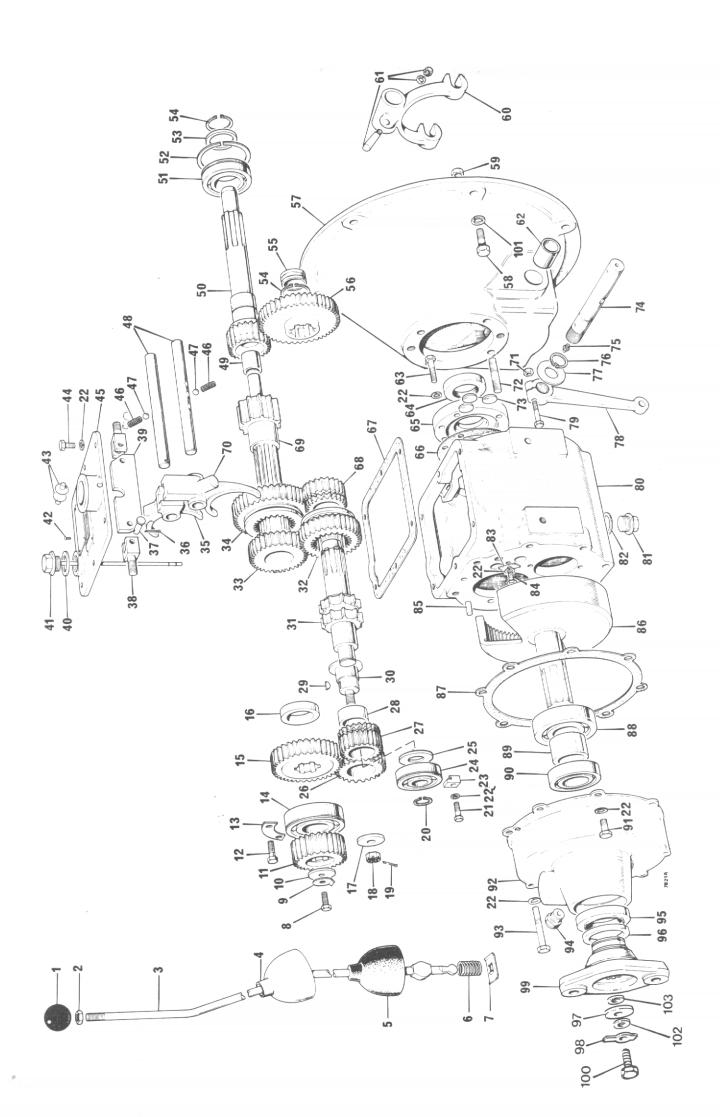
| Item No. | Part No. | Description | No. | Of |
|----------|-----------|---|-----|----|
| 1 | 3SHD 52 | Skip | | 1 |
| 2 | 4/35-110 | Ram Bolts & Nuts | 40 | 2 |
| 3 | 4SHL 91 | Bush | | 2 |
| 4 | 5ST 100 | Grease Nipple | | 1 |
| 5 | 4/35 29 A | Tension Pin - 5/16" Dia. x 2.1/4" Long | | 2 |
| 6 | 3SHD 62 | Skip Pivot Pin | | 1 |
| 7 | 3SHD 51 | Frame | | 1 |
| 8 | | Bolt - 1/2" BSF x 1.1/2" Long & Nut | | 4 |
| 9 | | 1/2" Taper Washer | | 4 |
| 10 | | Bolt - 3/4" BSF x 1.1/2" Long, Nut & Washer | ; | 3 |
| 11 | 4/60-104 | Ram Bolt | ; | 2 |
| 12 | 4/60-172 | Ram Bolt Nut | : | 2 |
| . 13 | | Split Pin - 3/16" Dia. x 2.1/2" Long | | 2 |

FLYWHEEL AND CLUTCH ASSEMBLY



| Item No. | Part No. | Description | Qty. |
|----------|------------|----------------------------------|------|
| 1 | 10579A01 | Clutch Release Bearing | 1 |
| 2 | 28S02D | Screw Set | 6 |
| 3 | 41S04 | Washer Spring | 10 |
| 4 | 10597A01 | Cover Assembly | 1 |
| 5 | 10579A101 | Retainer Spring | 2 |
| 6 | 10598A02 | Drive Plate | 1 |
| 7 | 10580A0101 | Bush | 1 |
| 8 | 10580A02 | Flywheel Assembly | 1 |
| | | (comprises of items 7, 8, & 11) | • |
| 9 | 1S02C | Bolt, Petter PH Engine | 4 |
| | | (drill for locking wire) | - |
| 9A | 6S02B | Bolt, Lister Engine | 4 |
| | | (drill for locking wire) | - |
| 10 | C321 | Dowel | 1 |
| 11 | 10580A0102 | Dowel | 2 |
| | | | _ |
| | 10948A02 | Clutch Kit | 1 |
| | | (comprises of items 1, 4, 5 & 6) | - |

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.

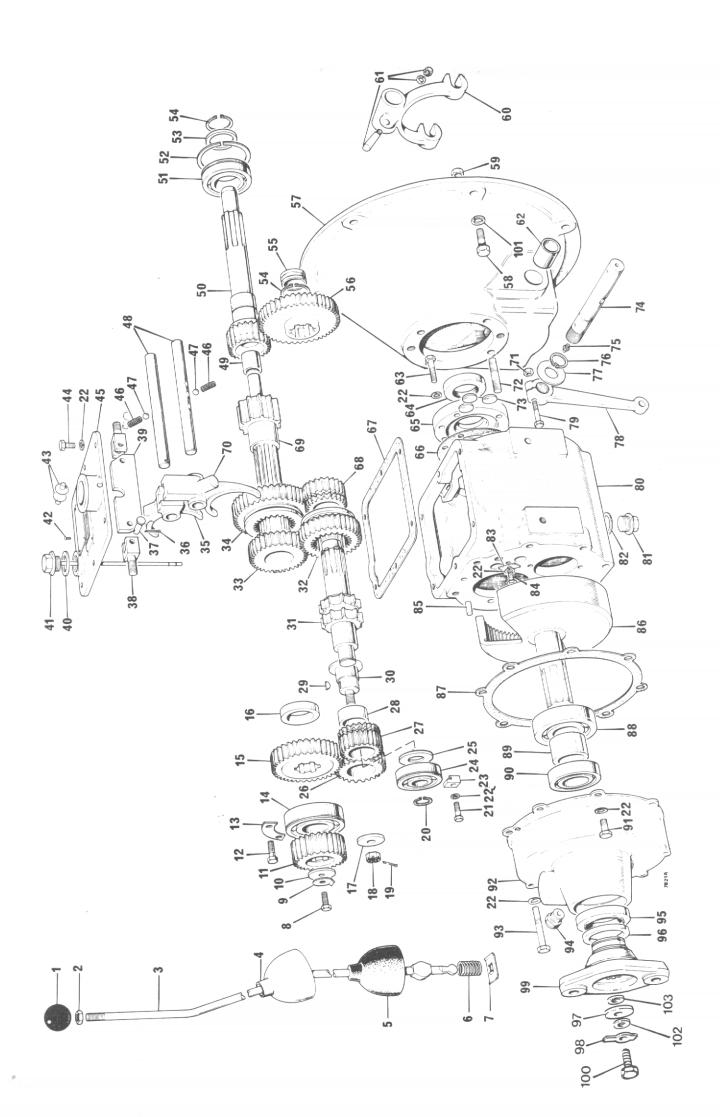


GEARBOX 40M/42 - NEWAGE 30106.A01



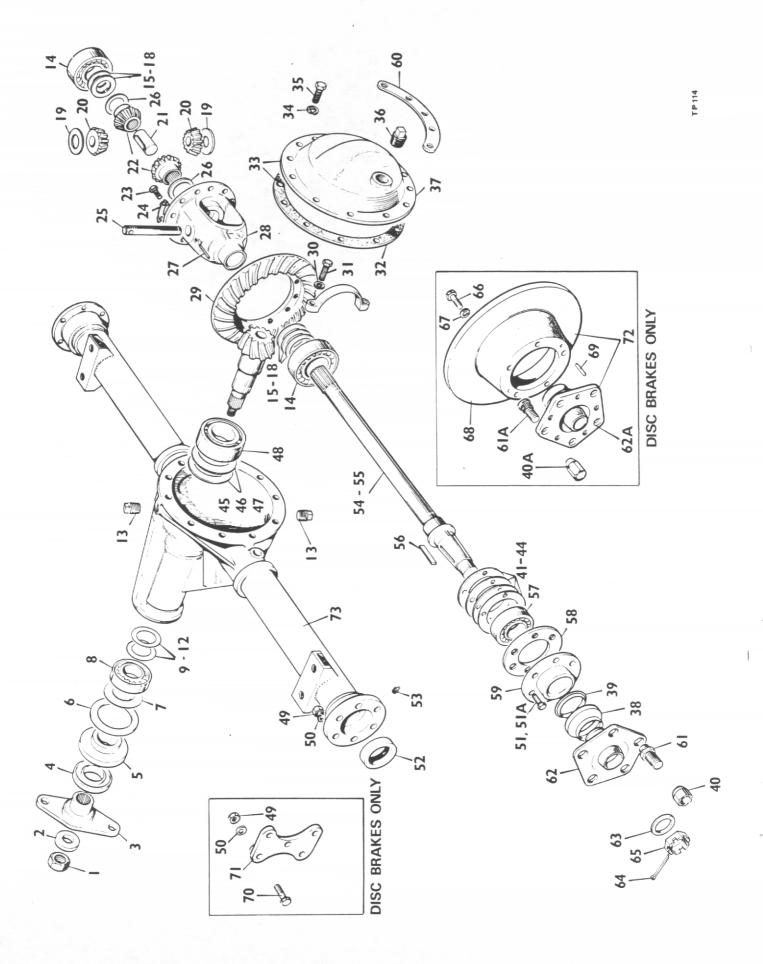
| | _ | | | |
|--|----------|------------------|--|------|
| | Item No. | . Part No. | Description | Qty. |
| | - | | | |
| | 1 | 30101.A0201 | Knob | 1 |
| | 2 | 95S 03 | Gear Lever, | 1 |
| | 3 | 30101.A0202 | Gear Lever, = | 1 |
| | 4 | 30101.A0203 | Cap - Gear Lever | 1 |
| | 5 | 30101.A0204 | Cover - Gear Lever | 1 |
| | 6 | 30101.A0205 | Spring - Gear Lever | 1 |
| | 7 | 30101.A0206 | Retaining Plate - Gear Lever | 1 |
| | 8 | 28S.03E | Screw - Mainshaft | 1 |
| | 9 | 30190.A0101 | Lock Washer - Tab | 1 |
| | 10 | 30190.A0102 | Washer - Reduction Pinion | 1 |
| | 11 | 30190.A0103 | Reduction Pinion | 1 |
| | 12 | 28S.01B | Screw - Bearing Retainers | _ |
| | 13 | 30190.A0104 | | 2 |
| | 14 | | Bearing Retainer - Small | 1 |
| | 15 | 30101.A0210 | Bearing - Mainshaft Rear | 1 |
| | | 30101.A0211 | Output Gear | 1 |
| | 16 | 30101.A0212 | Spacer - Output Gear | 1 |
| | 17 | 30101.A0213 | Washer - Reverse Pinion Gear | 1 |
| | 18 | 102S .04 | Nut - Reverse Spindle | 1 |
| | 19 | 44S 302C | Split Pin | 1 |
| | 20 | 30101.A0215 | Circlip | 1 |
| | 21 | 28S@01D | Screw | 2 |
| | 22 | 01\$چ. | Washer | A/R |
| | 23 | 30190 A0105 | Clip, Layshaft Bearing | 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 | |
| | 30 | 30101.A0222 | Shaft, - Reverse Pinion | 1 |
| | 31 | 30101.A0222 | | 1 |
| | 32 | | Layshaft | 1 |
| | 33 | 30101.A0224 | 2nd Speed Sliding Gear | 1 |
| | | 30101.A0225 | 2nd Speed Gear | 1 |
| | 34 | 30101.A0226 | 1st 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 105 | Seal, Dipstick | 1 |
| | 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 | |
| | 46 | 30097.A0185 | Detent Spring | 1 |
| | 47 | 30101.A0236 | Detent Ball | 2 |
| | 48 | 30101.A0237 | | 2 |
| | 49 | 30101.A0237 | Selector Shaft | 2 |
| | 50 | | Bearing, Primary Shaft | 1 |
| | 50 | 30101.A0239 | Primary Shaft | 1 |
| | | | | |
| Commence of the Commence of th | ORTANT: | With effect from | om G/Box Batch No.B 1238 the following changes | |
| | l take p | lace:- | | |
| Iten | 0 | | Description New Part No. | |
| 41 | | | Dipstick 30218.A0223 | |
| 31 | | | Layshaft 30101.A0266 | |
| 55 | | 30101.A0244 | Bearing - Layshaft 30101.A0267 | |
| | mı c | | | 21 |

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



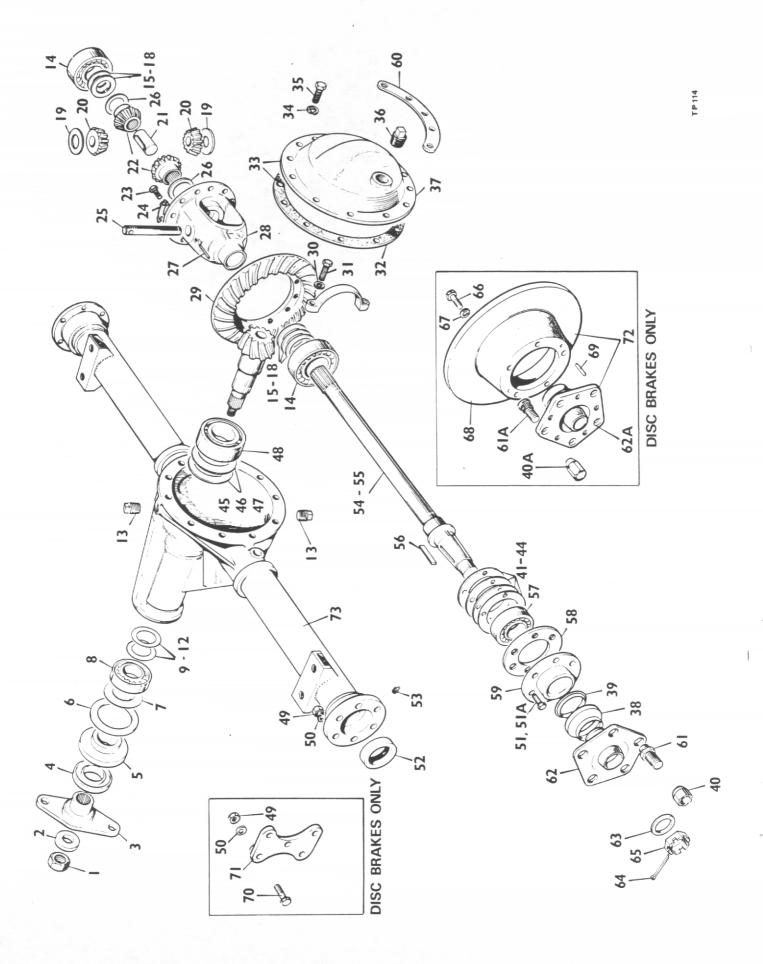
GEARBOX 40M/42 - NEWAGE 30106.A01

| Item No. | Part No. | Description | Qty. |
|------------|-------------|--|------|
| 51 | 30101.A0240 | Input Bearing | 1 |
| 52 | 30101.A0241 | Snap Ring | 1 |
| 53 | 30101.A0242 | Bearing Spacer | 1 |
| 54 | 30101.A0243 | Circlip | 2 |
| 55 | 30101.A0244 | Bush - Layshaft | 1 |
| 56 | 30101.A0245 | 1st Reduction Gear | 1 |
| 57 | 30101.A0246 | Clutch Housing | 1 |
| 58 | 3S.03E | Bolt - 3/8" B.S.F. x 1" (Petter) (G/Box - Eng.). | 8 |
| J 0 | 69S.03E | Bolt - 3/8" U.N.C. x 1" (Lister) (" " "). | 8 |
| 59 | 9S.03E | Nut 3/8" U.N.F | |
| 60 | 30097.A0110 | Clutch Release Fork | 6 |
| 61 | | | 1 |
| 62 | 30097.A0111 | Cotter, Nut & Washer S/A | 1 |
| | 30097.A0114 | Bush, Cross Shaft | 2 |
| 63 | 6S.01B | Bolt, Front Cover | 4 |
| 64 | 30101.A0247 | Oil Seal - Input | 1 |
| 65 | 30101.A0248 | Front Cover | 1 |
| 66 | 30101.A0249 | Joint, Front Cover | 1 |
| 67 | 30101.A0250 | Joint, Top Cover | 1 |
| 68 | 30101.A0219 | Reverse Speed Gear | 1 |
| 69 | 30190.A0106 | Mainshaft | 1 |
| 70 | 30101.A0252 | Selector Fork 1st & Rev | 1 |
| 71 | 98.01 | Nut, Clutch Lever | 1 |
| 72 | 30101.A0253 | Stud, Clutch Housing | 6 |
| 73 | 30101.A0254 | Sealing Disc, Selector Shaft | 3 |
| 74 | 30101.A0255 | Clutch Cross Shaft | 1 |
| 75 | 30103.A0102 | Grease Nipple | 2 |
| 76 | 30101.A0256 | Circlip | 1 |
| 77 | 30097.A0133 | Washer - Cross Shaft | 1 |
| 78 | 30097.A0109 | Clutch Release Lever | |
| 79 | 6S.01C | Bolt - Clutch Lever | 1 |
| 80 | 30101.A0262 | | 1 |
| 81 | 30101.A0202 | Casing | 1 |
| 82 | 42S.05 | Drain Plug | 1 |
| 83 | | Seal, Drain Plug | 1 |
| | 30101.A0259 | Selector Locking Strip | 1 |
| 84 | 28S.01C | Setscrew | 2 |
| 85 | 30097.A0155 | Dowel | 2 |
| 86 | 30190.A0110 | Internal Gear | 1 |
| 87 | 30190.A0112 | Joint - Reduction Housing | 1 |
| 88 | 30190.A0111 | Bearing - Internal Gear Front | 1 |
| 89 | 30101.A0260 | Spacer | 1 |
| 90 | 30190.A0113 | Bearing - Internal Gear Rear | 1 |
| 91 | 28S.02D | Screw - Hex. Hd | 5 |
| 92 | 30190.A0114 | Reduction - Housing | 1 |
| 93 | 6S.02J | Bolt - Hex. Hd. | 1 |
| 94 | 30097.A0171 | Breather | 1 |
| 95 | 30097.A0132 | Oil Seal - Rear | 1 |
| 96 | 30101.A0265 | Dust Shield | 1 |
| 97 | 30101.A0208 | Washer - Coupling | 1 |
| 98 | 30101.A0207 | Lock Wash | 1 |
| 99 | 30105.A0102 | Coupling | |
| 100 | 28S.05E | | 1 |
| 101 | | Screw - Coupling | 1 |
| | 418.05 | Spring Washer | 8 |
| 102 | 30143.A0111 | Fibre Washer | 1 |
| 103 | 30143.A0101 | Fibre Washer | 1 |
| | | | |



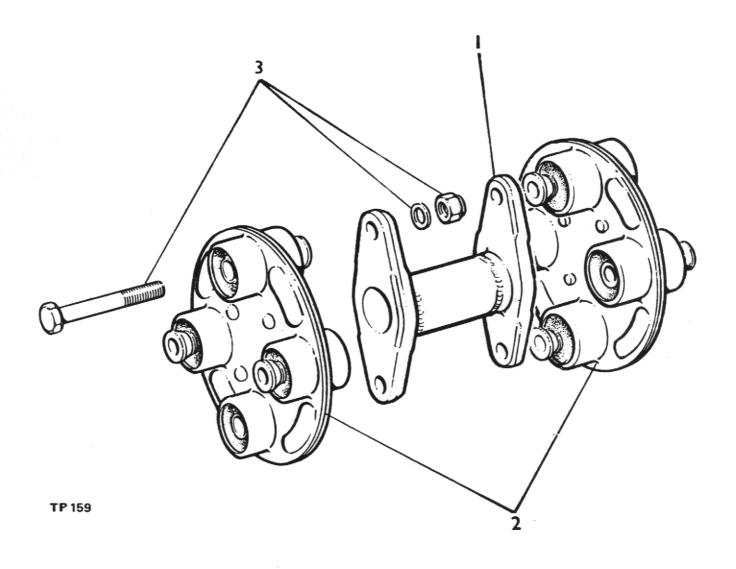
DRIVE AXLE

| Item No. | Part No. | Description | Qty. |
|----------|----------------------------|---|--------|
| | 5HA-001-274 5HA-001-174 | Drive Axle Complete with drum brakes (1 per m/c) Drive Axle Complete with disc brakes (1 per m/c) | ;) |
| 1 | 12 LN-NF9B | Pinion Nut | 1 |
| 2 | 12W-24 | Pinion Nut Washer ¾" dia std. heavy pattern | 1 |
| 3 | 3HA-102-10 | Companion Flange Assembly | 1 |
| 4 | 2HA-021 | Companion Flange Dust Shield | 1 |
| 5 | 8HA-019-3 | Pinion Oil Seal | 1 |
| 6 | 2HA-020 | Pinion Oil Seal Gasket | 1 |
| 7 | 2HA-036 | Pinion Oil Slinger | 1 |
| 8 | 5HA-022 | Pinion Bearing, Outer | 1 |
| 9 | 5HA-039 | Pinion Bearing Adjusting Shim Outer .003" | A/R |
| 10 | 5HA-040 | Pinion Boaring Adjusting China Outer 2051 | A/R |
| 11 | 5HA-041 | Pinion Bearing Adjusting Shim Outer .005". | |
| 12 | 5HA-042 | Pinion Bearing Adjusting Shim Outer .030" | A/R |
| 13 | HA-059 | Filler and Drain Plug (each) | 1 |
| 14 | 5HA-024/1 | Differential Bearing | 2 |
| 15 | 5HA-046 | Differential Bearing Shim .003" | A/R |
| 16 | 5HA-047 | Differential Bearing Shim .005" | A/R |
| 17 | 5HA-048 | Differential Bearing Shim .005" | A/R |
| 18 | 5HA-049 | Differential Bearing Shim .030" | A/R |
| 19 | 5HA-037 | Differential Pinion Mate Thrustwasher | 2 |
| 20 | 5HA-008-1 | Differential Pinion Mate | 2 |
| 21 | 5HA-033-3 | Axle Shaft Spacer | 1 |
| 22 | 5HA-007-2 | Differential Side Gear | 2 |
| 23 | 5HA-075-2 | Drive Gear Screw | 12 |
| 24 | 5HA-074-1 | Duine Coon Tolomod | 6 |
| 25 | 5HA-012 | Differential Pinion Mate Chaft | 1 |
| 26 | 5HA-038 | Differential Cide Cook Thomas | 2 |
| 27 | 5HA-013 | Differential Divisor Mate Charles I Di | 1 |
| 28 | 5HA-006 | Differential Cose | 1 |
| 29 | 5HA-105 15 | Drive Gear and Pinion Assembly Complete | 1 |
| 30 | 8 LW-115 | Differential Descine Con Continued 1/1/1 | 4 |
| 31 | 8 B-NC-36 | Differential Bearing Cap Springwasher ½" dia . | 4 |
| 32 | 5HA-026 | Gear Carrier Cover Gasket | 1 |
| 33 | 5HA-064-17 | Gear Carrier Cover Assembly | 1 |
| 34 | 6LW-105 | Cover Screw Springwasher | 10 |
| 35 | 6B-NC10 | Course Course | 10 |
| 36 | HA-059 | Laval Division | 1 |
| 37 | 5HA-064-1 | Gear Carrier Cover | 1 |
| 38 | 5HA-030-4 | Shroud | 2 |
| 39 | 5HA-032-14 | Seal | 2 |
| 40 | C 177 | Wheel Nut (Drum brakes only) | 10 |
| 40A | R340 | Wheel Nut (Disc brakes only) | 10 |
| 41 | 5HA-050-3 | Axle Shaft Bearing Shim .003" | A/R |
| 42 | 5HA-051-3 | Axle Shaft Bearing Shim .005" | A/R |
| 43 | 5HA-052-3 | Axle Shaft Bearing Shim .010" | A/R |
| 44 | 5HA-053-3 | Axle Shaft Bearing Shim .030" | A/R |
| 45 | 5HA-043 | Pinion Adjusting Shim, Inner .003" | A/R |
| 46 | 5HA-044 | Pinion Adjusting Shim, Inner .005" | A/R |
| 47 | 5HA-045 | Pinion Adjusting Shim, Inner .010" | A/R |
| 48 | 5HA-023 | Pinion Bearing Inner | 1 |
| 49 | 6N-NF5 | Pooring Poteiner Net 2/0// LINE | 12 |
| 50 | 6W-12 | Spring Washer | 12 |
| 51 | 6B-NF 18/B | Decrine voteines beliefelden to the | 12 |
| 51A | 6B NF 21 | Pooring rotainer halt /dias bustons 1.1 | |
| 52 | 5HA-027 | Avia Chaft Oil Caal | 6 2 |
| 53 | 5HA-056-1 | Aula Chaft Bassins Course Nicel | |
| 54 | 5HA-005-51 | Ayla Chaft BU (agreenlets with No. 4) | 2 |
| 55 | 5HA-005-51 | Aylo Choft I II (aggregate with NL 4) | 1 |
| 56 | 5HA-029 | Ayla Chaft Vay | 1 |
| 57 | 5HA-025 | Ayla Chaft Bassing | 2 |
| 58 | 5HA-035-5 | Aula Chaft Dania Dani | 2 |
| 59 | 5HA-057-3 | | 2 |
| 60 | 4-35-235 | Differential | 2 |
| | | Differential cover support | 1 |



DRIVE AXLE (Cont'd.)

| Item No. | Part No. | Description | Qty. |
|-----------|-----------------------------------|--|---------|
| | | | |
| 61 | 5HA-055-6 | Wheel stud (drum brakes only) | 10 |
| 61A 62 | 5HA-0 5 5-17 5HA-028-37 | Wheel stud (disc brakes only) | 10 2 |
| 62A 63 | 5HA-028-56 18W-32 | Wheel hub c/w studs (Disc brakes only) Axle shaft washer | 2 |
| 64 65 | 12SP-18 18-SN-NF-12 | Axle shaft cotter 3/16" x 2" | 2 |
| 66 | 6B-NF-21 | Axle shaft Nut | 10 |
| 67 68 | 6LW-105 10HA-136 | Brake disc bolt lockwasher (disc brakes only) . Brake disc (disc brakes only) | 10 2 |
| 69 70 | 6D-16 6B-NF24A | Brake disc dowel (disc brakes only) | 4 |
| 71 | 5HA-137 | Caliper bracket (disc brakes only) | 2 |
| 72 | 5HA-028-52 5HA-082-5 | Hub & Disc Assembly (disc brakes only) Differential case Assembly (comprising items 19, 20, 21, 22, 25, 26, 27 & 28) | 2 |
| 73 | 5HA-101-73 | Service Carrier & Tube Assembly | 1 |

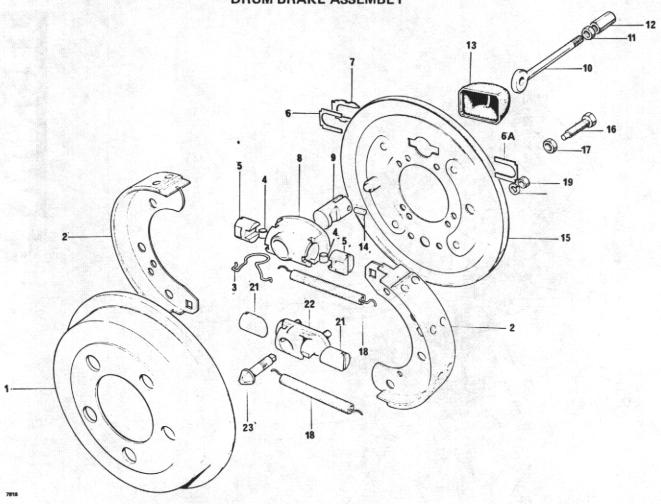


PROPSHAFT

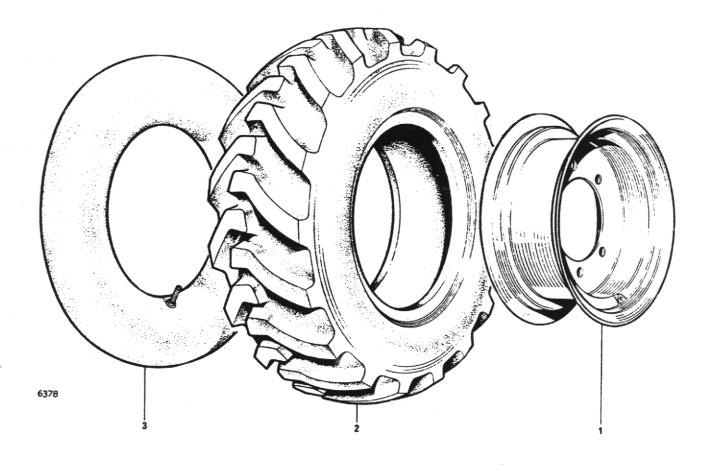
| Item No. | Part No. | Description | Qty. |
|----------|----------|-------------------------------|------|
| | 76491 | Prop shaft assembly complete | 1 |
| 1 | L307 | Prop shaft tube | 1 |
| 2 | 10325A01 | Coupling | 2 |
| 3 | 10326A01 | Coupling bolt, washer and nut | 8 |

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

DRUM BRAKE ASSEMBLY

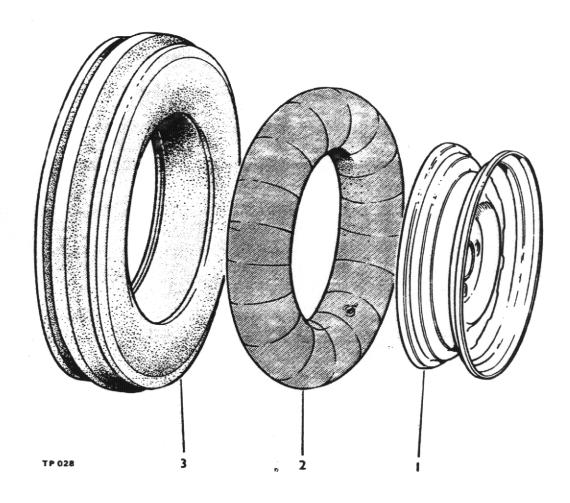


| Item | Part No. | Description | Qty. |
|------|-------------|-------------------------------|------|
| 1 | 30088.A0128 | Brake Drum | 1 |
| 2 | 20298.A0101 | Lined Shoe | 2 |
| 2 3 | 20298.A0102 | Spring | 1 |
| 4 | 20298.A0103 | Roller | 2 |
| 5 | 20298.A0104 | Tappet Expander | 2 |
| 6 | 20298.A0105 | Plate | 1 |
| 6A | 20298.A0106 | Plate | 1 |
| 7 | 20298.A0107 | Locking Plate | 1 |
| 8 | 20298.A0108 | Expander Housing | 1 |
| 9 | 20298.A0109 | Plunger | 1 |
| 10 | 20298.A0110 | Drawlink | 1 |
| 11 | 20298.A0111 | Locknut | 1 |
| 12 | 20298.A0112 | Barrel Nut | 1 |
| 13 | 20298.A0113 | Dust Cover | 1 |
| 14 | 20298.A0114 | Pin | 1 |
| 15 | 20298.A0115 | Brake Back Plate | 1 |
| 16 | 1S.02C | Setscrew 5/16" BSF | 2 |
| 17 | 18.03 | Nut 5/16" BSF | 2 |
| 18 | 20298.A0116 | Spring | 2 |
| 19 | 20298.A0117 | Nut | 2 |
| 20 | 20298.A0118 | Washer | 2 |
| 21 | 20298.A0119 | Tappet Adjuster | 2 |
| 22 | 20298.A0120 | Adjuster Housing | 1 |
| 23 | 20298.A0121 | Wedge | 2 |
| 24 | 20298.A0122 | Service Kit (Adjuster) (N.I.) | A/R |
| 25 | 20298.A0123 | Adjuster Assy. (Compr: 19-25) | A/R |
| 26 | 20298.A0124 | Expr. Assy. (Compr: items | |
| | | 3,4,5,8,9,10,11,12,& 14 | A/R |



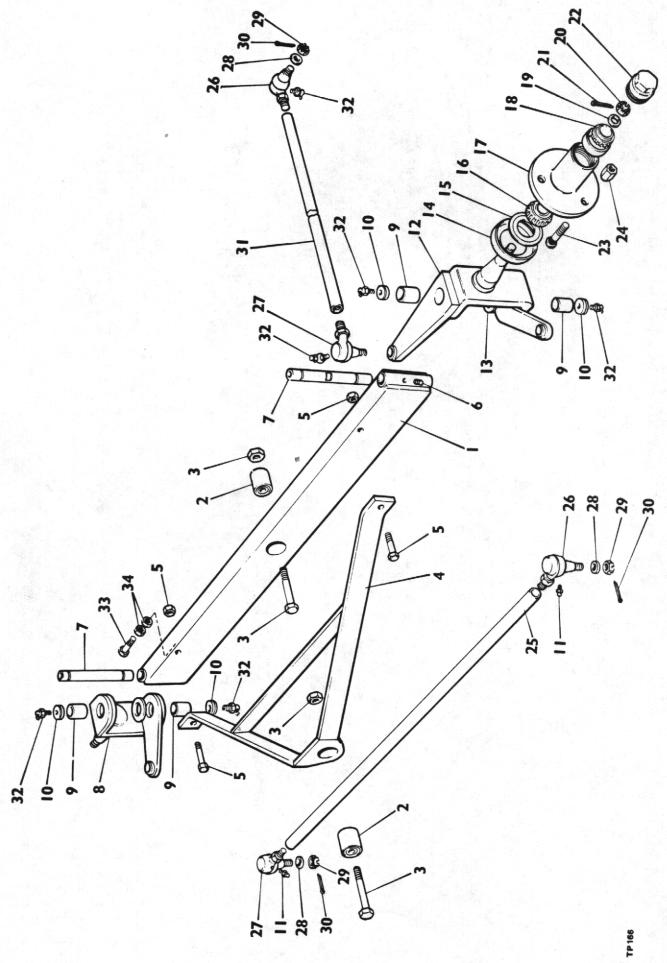
DRIVE WHEELS AND TYRES

| Item No. | Part No. | Description | Qty. |
|-------------|--|---|------------------|
| 1 2 3 | 24S04 24S03 30192A01 20S08 23S03 | R/H Wheel Assembly L/H Wheel Assembly Wheel rim 5.50 x 16 Tyre 7.50 x 16-6 ply Tube 7.50 x 16 | 1 1 2 2 |



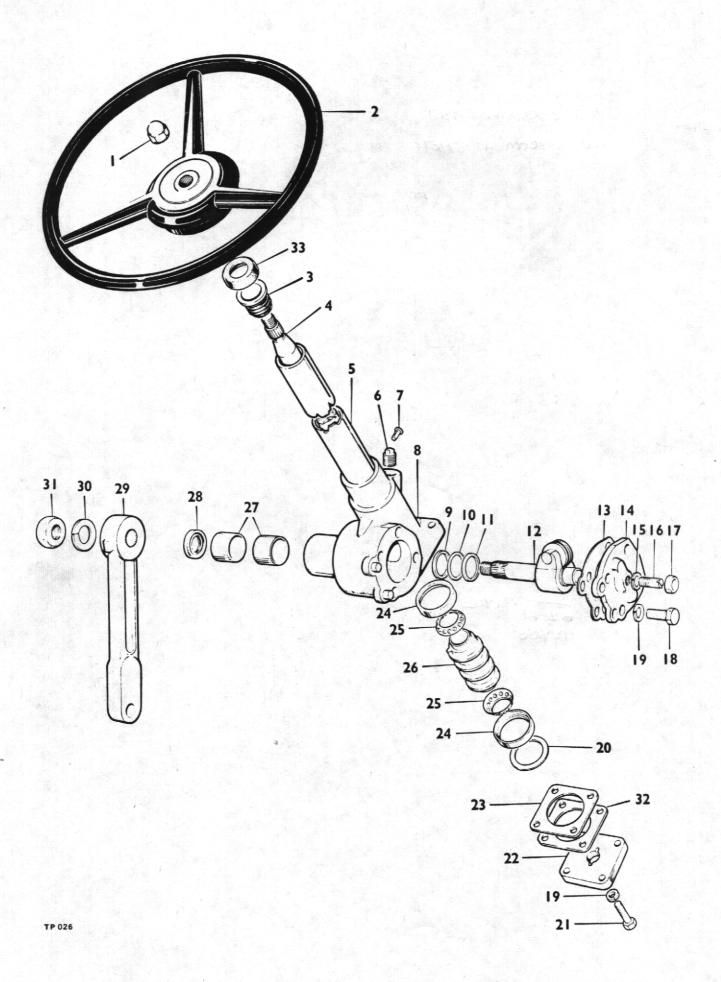
STEERING WHEELS AND TYRES

| Item No. | Part No. | Description | Qty. |
|----------|----------|-------------------------|------|
| | 24S37 | Steering wheel complete | 2 |
| 1 | LP598 | Wheel rim 4.00 x 16 | 2 |
| 2 | 23S01 | Tube 5.50 x 16 | 2 |
| 3 | 21S02 | Tyre 5.50 x 16-6 ply | 2 |



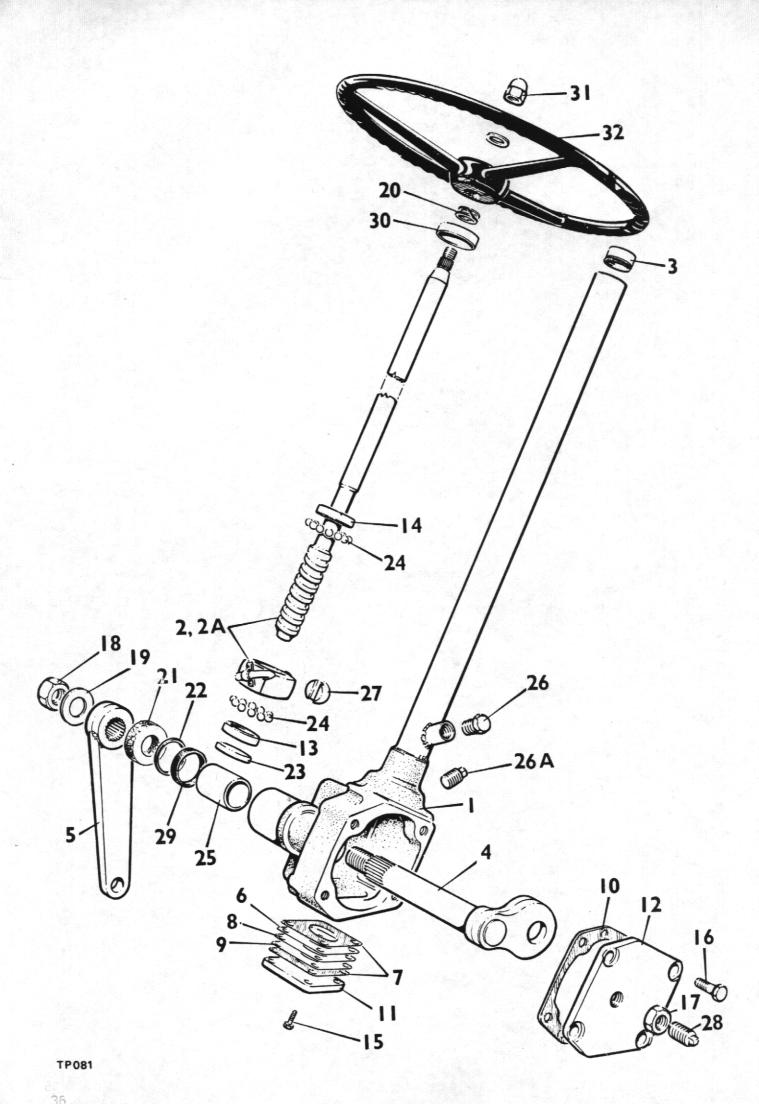
STEERING ASSEMBLY

| Item No. | Part No. | Description | Qty |
|----------|-------------------|---|-------|
| 1 | L-261 | Axle Beam | 1 |
| 2 | E-2245 | Axle & Stabiliser Bush | 2 |
| 3 Bocs | 6\$0BMM NOT 9\$07 | Axle & Stabiliser Pivot Bolt 7/8" UNF x 4" long & Nut | 2 |
| 4 | L-262 | Axle Stabiliser | 1 |
| 5 BOW | 6\$06M NUT 87807 | Bolt 5/8" UNF x 3 1/2" long & Nut | 2 |
| 6 | C-111A | King Pin retaining screw 7/16" whit | 2 |
| 7 | L-264 | King Pin | 2 |
| 8 | L-267-L.H. | Stub Axle Assembly L.H. | 1 |
| 9 | C-190 | King Pin Bush | 4 |
| 10 | C-180A | King Pin washer — felt | 4 |
| | C-180B | King Pin washer – steel | 4 |
| 11 | T-ST | Grease nipple | 2 |
| 12 | L-267-R.H. | Stub Axle Assembly R.H. | 1 |
| 13 | C-175 | Thrust washer | 2 |
| 14 | EC-2752 | Dust Cover | 2 |
| 15 | C-186C | Hub bearing Oil seal | 2 |
| 16 | K-14138-1 | Hub bearing (Inner) | 2 |
| 17 | C186 | Hub Assembly Complete (Including items 14,15,16, | 2 |
| | | 18,22,23, & 24) | 2 |
| 18 | K-09074 | Hub bearing (outer) | 2 |
| 19 | | Hub washer 5/8" dia bright | A / D |
| 20 | C-186B | Hub Nut 5/8" BSF slotted | |
| 21 | | Split Pin 1/8" dia | 2 |
| 22 | C-186A | Hub Cap | |
| 23 | 0156 | Wheel stud | 2 |
| 24 | C-177 | Wheel Nut | 6 |
| 25 | L-308T | Track Rod | 6 |
| 26 | C-159-L.H. | Steering Ball Joint L.H. | 1 |
| 27 | C-159-R.H. | Steering Ball Joint R.H. | 2 |
| 28 | | Flat washer | 2 |
| 29 | | Slotted Nut | 4 |
| 30 | | Split Pin 1/8" dia x 1" long | 4 |
| 31 | L-308D | Drag Link | 4 |
| 32 | 13502 | Grease nipple | 1 |
| 33 | 6806F | Grease nipple | 6 |
| 24 | 2211 | Stop Boil 3/8 Olym X Z long | 2 |



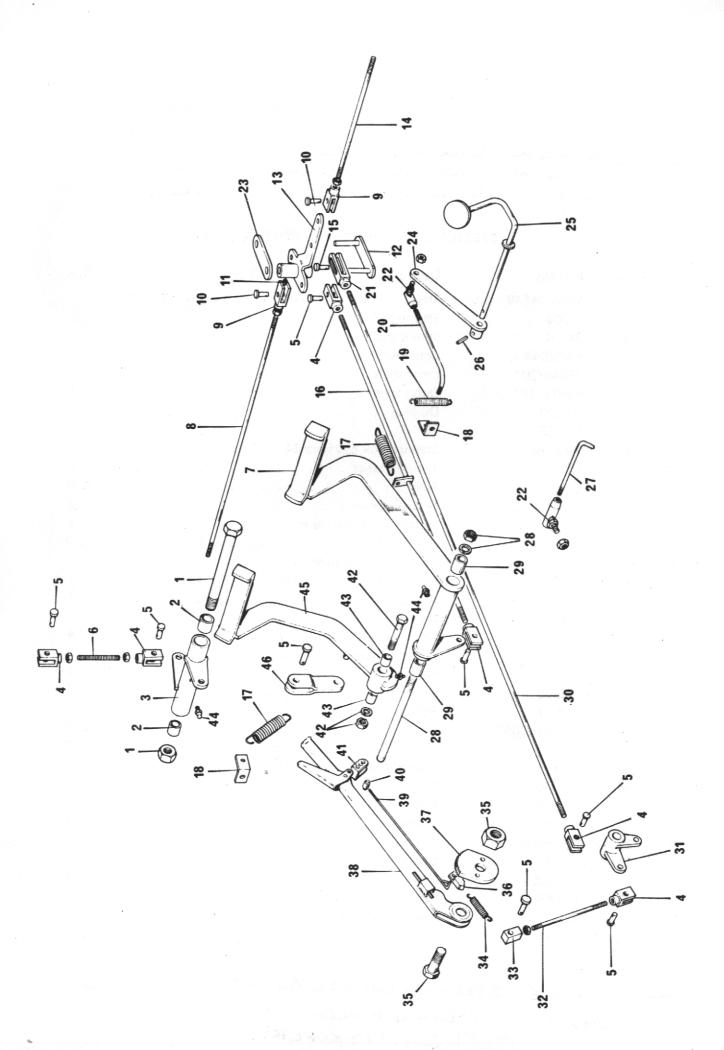
STEERING GEAR (CAM AND ROLLER TYPE)

| Item No. | Part No. | Description | Qty. |
|----------|--------------|---|------|
| | MGA 34845 | 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 | | A/R |
| 11 | P 4150 | Thrust washer | 2 |
| 12 | PA5229/4¼" | Rocker shaft c/w roller | 1 |
| 13 | P3306A | | A/R |
| 14 | QA757 | Cover plate and bush | 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 | 1 |
| 21 | S 9300 | Setscrew | 4 |
| 22 | P 3907 | Bottom cap | 1 |
| 23 | P 3301/.005" | 로마 하실하고 열려보고 생활하다. 이렇게 가꾸 살이 있는 나라는 그리는 나라가 되자 나는 이렇게 들었다. 그리는 그리는 아이들은 이렇게 되었다. 나는 나를 다 되었다. 그리는 보다는 사람은 사람은 | A/R |
| 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 | 1 |
| 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 | 1 |



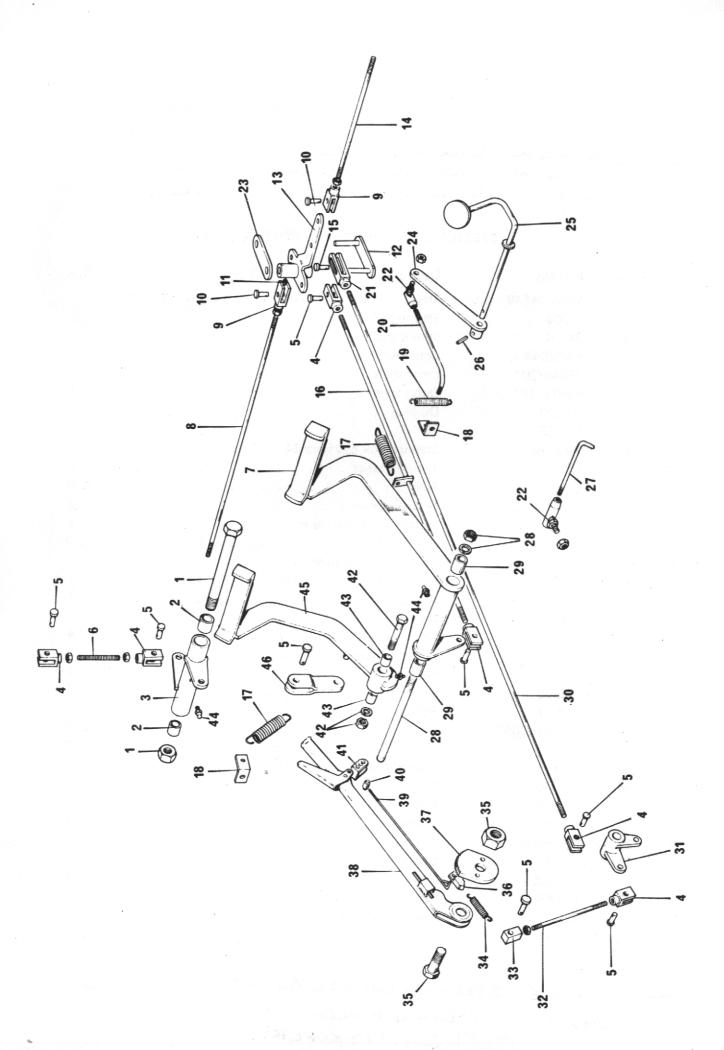
STEERING GEAR (RECIRCULATING BALL TYPE)

| Item No | Part No. | Description | Qt |
|---------|-----------|---|----|
| | 11-077 | Steering gear complete (less items 5 & 32) | |
| 1 | SA-01-183 | Box and Tube assembly | 1 |
| 2 | SA-02-269 | Inner column assembly and main nut (700mm long) | 1 |
| 2A | SA-02-277 | Inner column assembly and main nut (750mm long) | 1 |
| 3 | SA-21-004 | Bearing assembly | |
| 4 | S-7-103 | Rocker shaft | 1 |
| 5 | 2SE90 | Drop arm | 1 |
| 6 | S-10-14 | End plate shim .005" | 3 |
| 7 | S-10-15 | End plate gasket | 2 |
| 8 | S-10-42 | End plate shim .002" . , | 2 |
| 9 | S-10-111 | End plate shim .010" | 2 |
| 10 | S-10-191 | Cover plate gasket | 1 |
| 11 | S-11-83 | End plate | 1 |
| 12 | S-12-186 | Cover plate | 1 |
| 13 | S-23-32 | Ballrace (small) | 1 |
| 14 | S-23-33 | Ballrace (large) | 1 |
| 15 | 10-3-37 | End Plate bolt | 4 |
| 16 | 10-4-16 | Cover Plate bolt | • |
| 17 | 11-7-2 | Rocker shaft adjuster screw nut | 1 |
| 18 | 11-8-7 | Rocker shaft nut | 1 |
| 19 | 12-8-36 | Rocker shaft tab washer | |
| 20 | 12-8-85 | Spring | |
| 21 | 12-9-61 | Drop arm felt washer | |
| 22 | 12-10-7 | Oil seal retaining washer | |
| 23 | 12-12-26 | Inner column packing plate | |
| 24 | 17-3-4 | Steel ball | |
| 25 | 19-9-17 | | 1 |
| 26 | 21-8-4 | Oil Plug | |
| 26A | 21-7-2 | 그런 사람들은 그리고 있는데 그렇게 되었다. 그는 그는 그는 그는 그는 그는 그는 그를 보고 있는데 그리고 있다면 살아 있다. 그는 그를 보고 있다. | 1 |
| 27 | 24-5-5 | Adain and a street | 1 |
| 28 | 25-7-2 | Dealer delle de la company de | 1 |
| 29 | 27-9-6 | Oil seal | |
| 30 | 32-8-8 | Dust cap | 1 |
| 31 | 11-7-45 | Dome nut | 1 |
| 32 | 347K | Steering wheel | 1 |



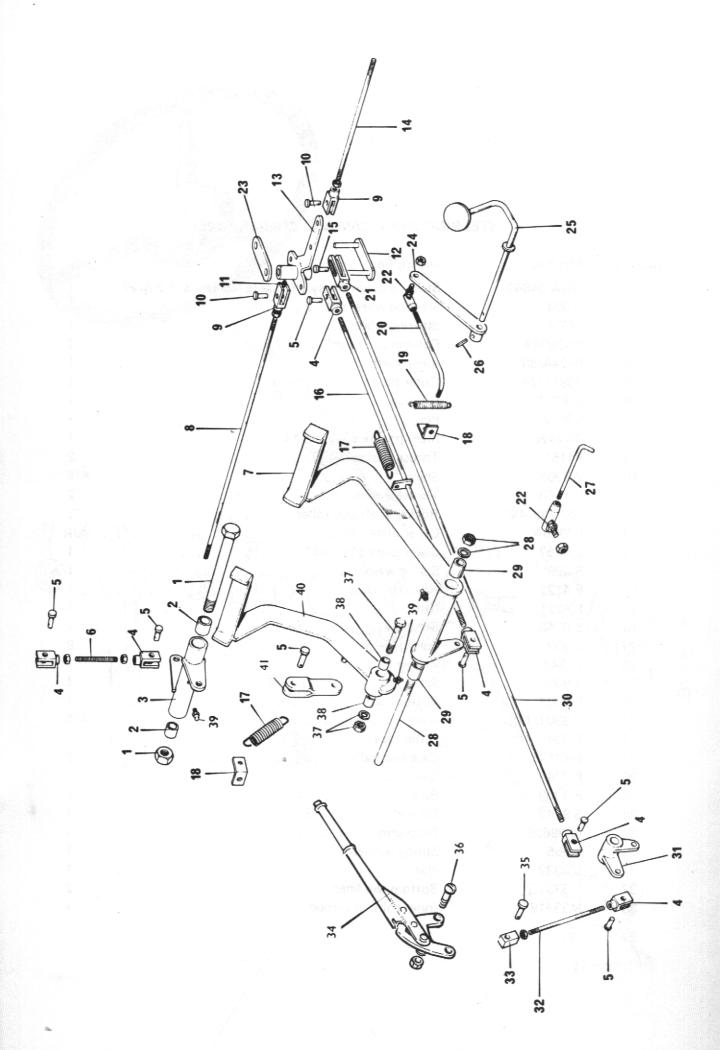
PEDALS & CONTROLS

| It | em No. | Part No. | Description | No. Off |
|---------|--------|-------------------------|--|---------|
| | 1 | L 297 | Clutch Transfer Lever Bolt and Nut | 1 |
| | 2 | WB 0808 | Clutch Transfer Lever Bush | 2 |
| | 3 | L 280 | Clutch Transfer Lever | 1 |
| | 4 | C 174 A | Fork End — Drum | 6 |
| | | C 174 A | Ford End — Disc | 4 |
| | 5 | C 174 X | Clevis Pin — Drum | 7 |
| | | C 174 X | Clevis Pin - Disc | 5 |
| | 6 | C 184 | Clutch Adjusting Rod (3/8" BSF) | 1 |
| | 7 | C 122 | Footbrake Pedal - Drum | 1 |
| | • | C 258 | Footbrake Pedal — Disc | 1 |
| | 8 | L 278 B | Brake Rod 1/4" UNF x 31.1/4" Long - Drum | 1 |
| | Ü | L 329/2 | Brake Rod 1/4" UNF x 30.1/2" Long - Disc | 1 |
| | 9 | C 174 C | Clevis - Drum | 2 |
| | • | C 174 C | Clevis — Disc | 4 |
| | 10 | C 174 Y | Clevis Pin — Drum | 2 |
| | 10 | C 174 Y | Clevis Pin — Disc | 4 |
| | 11 | 5ST 100 | Grease Nipple | 1 |
| | 12 | C 271 | Compensator Link Assembly — Drum | i |
| | 12 | | Compensator Link Pin — Disc | 2 |
| | 10 | C 189 B | | 1 |
| | 13 | C 272 | Compensator Lever – Drum | 1 |
| | | 5ST 76 | Compensator Lever – Disc | 1 |
| | 14 | L 278 A | Brake Rod - 1/4" UNF x 8.3/4" Long - Drum | 1 |
| | | L 329/1 | Brake Rod - 1/4" UNF x 8.1/4" Long - Disc | 1 |
| | 15 | C 174 XL | Clevis Pin — Drum (For slotted fork) | 1 |
| | 16 | L 277A | Footbrake Rod 3/8" BSF x 40" Long | 1 |
| | 17 | C 173 B | Return Spring | 2 |
| | 18 | C 163 | Spring Retainer | 2 |
| | 19 | C 173 D | Accelerator Rod Return Spring | 1 |
| 370A01= | 20 | C 299 | Accelerator Rod | 1 |
| | 21 | C 174 B | Slotted Fork - Drum | 1 |
| | 22 | C 160 B | Ball End | 2 |
| | 23 | C 189 A | Compensator Link – Drum | ī |
| | 23 | L 329/5 | Compensator Link — Disc | 2 |
| | 24 | | | 1 |
| - 800 | 24 | C 129 | Accelerator Pedal Lever Accelerator Pedal | |
| | 25 | C 137 | Tension Pin 3/16" x 1.1/4" Long | 1 |
| | 26 | C 129 A | | 1 |
| | 27 | C299-1 | Priming Lever | 1 |
| | 28 | C319 | Footbrake Pedal Pin & 2 Nuts ¾" UNF. | 2 |
| | 29 | WB 1212 | Footbrake Pedal Bush | 1 |
| | 30 | L 277 B | H/Brake Rod 3/8" BSF x 47.1/2" | ' |
| | | L 329/3 | H/Brake Rod 3/8" BSF x 49.1/2" - Disc | 1 |
| | 31 | L 292 | H/Brake Transfer Lever | 1 |
| | 32 | L 306 | H/Brake Connecting Rod | 1 |
| - | 33 | L 309 | H/Brake Rod End | 1 |
| | 34 | 14423/A | H/Brake Pawl Spring | . 1 |
| | 35 | L 298 | H/Brake Lever Carrier Bolt and Nut | 1 |
| | 36 | 14418/A | Pawl | 1 |
| | 37 | C 156/A | H/Brake Lever Quadrant | 1 |
| | 38 | L 291 | H/Brake Assembly Complete | 1 |
| | 39 | 14419/A | H/Brake Pawl Rod | 1 |
| | 40 | 000022/A | Pin, Latch Pivot Arm | 1 |
| | 40 | 14425 A | Arm, Latch Pivot | i |
| | 41 | | | • |
| | | 201 | SPRED CONTROL } WASHER } DSA 203 | |
| | | 105.1 442.1 8 | SPLIT PIND YILLOWG | 3 |
| 1 | | | 333 C. | |



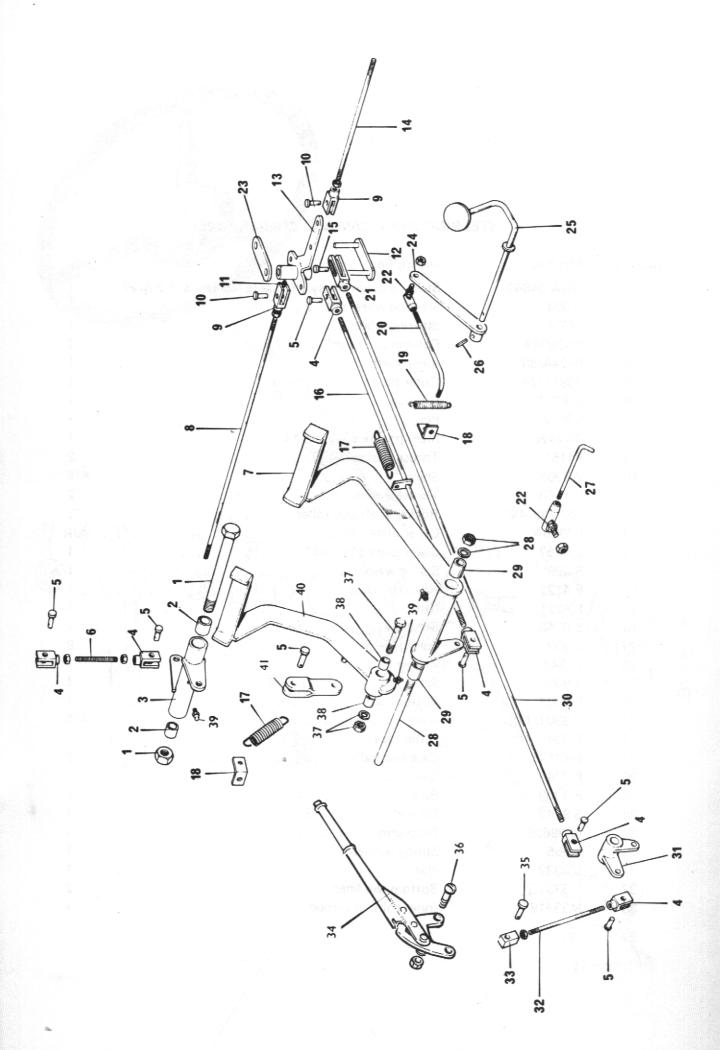
PEDALS & CONTROLS Cont'd.

| Item No. | Part No. | Description | No. Off |
|----------|----------|---------------------------|---------|
| 42 | C 126/A | Clutch Pedal Bolt and Nut | 1 |
| 43 | WB 1010 | Clutch Pedal Bush | 2 |
| 44 | T/ST | Grease Nipple | 3 |
| 45 | C 126 | Clutch Pedal | 1 |
| 46 | L 296 | Clutch Connecting Link | - 1 |



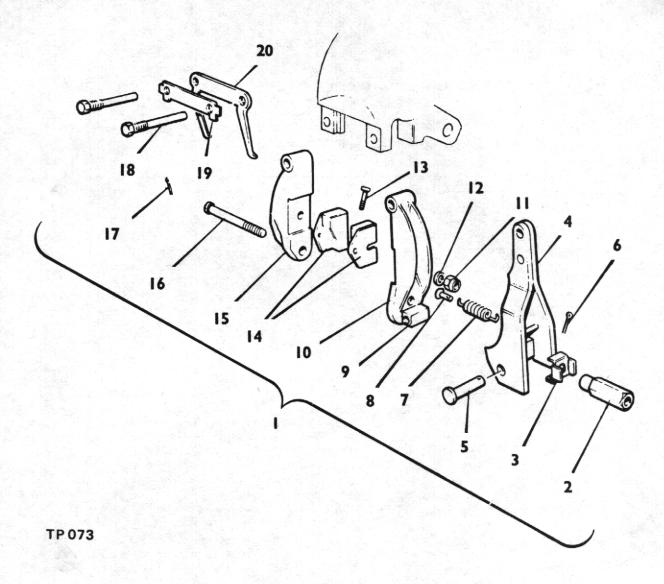
PEDALS & CONTROLS

| Item No. | Part No. | Description | No. Of |
|----------|----------|---|--------|
| 1 | L 297 | Clutch Transfer Lever Bolt and Nut | 1 |
| 2 | WB 0808 | Clutch Transfer Lever Bush | 2 |
| 3 | L 280 | Clutch Transfer Lever | 1 |
| 4 | C174 A | Fork End - Drum | |
| 7 | C174 A | Fork End - Drum Fork End - Disc | 6 |
| 5 | C174 X | Clevis Pin - Drum | 4 6 |
| | C174 X | Clevis Pin - Drum | 4 |
| | | | 4 |
| 6 | C 184 | Clutch Adjusting Rod (3/8" BSF) | 1 |
| 7 | C 122 | Footbrake Pedal — Drum | 1 |
| | C 258 | Footbrake Pedal — Disc | 1 |
| 8 | L 278 B | Brake Rod 1/4" UNF x 31.1/4" Long — Drum | 1 |
| | L 329/2 | Brake Rod 1/4" UNF x 30.1/2" Long — Disc | 1 |
| 9 | C 174 C | Clevis — Drum | 2 |
| | C 174 C | Clevis — Disc | 4 |
| 10 | C 174 Y | Clevis Pin — Drum | 2 |
| | C 174 Y | Clevis Pin — Disc | 4 |
| 11 | 5ST 100 | Grease Nipple | 1 |
| 12 | C 271 | Compensator Link Assembly - Drum | 1 |
| | C 189 B | Compensator Link Pin — Disc | 2 |
| 13 | C 272 | Compensator Lever - Drum | 1 |
| | 5ST 76 | Compensator Lever — Disc | 1 |
| 14 | L 278 A | Brake Rod – 1/4" UNF x 8.3/4" Long – Drum | 1 |
| | L 329/1 | Brake Rod - 1/4" UNF x 8.1/4" Long - Disc | |
| 15 | C 174 XL | | 1 |
| 16 | | Clevis Pin – Drum (For slotted fork) | 1 |
| | L 277A | Footbrake Rod 3/8" BSF x 40" Long | 1 |
| 17 | C 173 B | Return Spring | 2 |
| 18 | C 163 | Spring Retainer | 2 |
| 19 | C 173 D | Accelerator Rod Return Spring | 1 |
| 20 | C 299 | Accelerator Rod | 1 |
| 21 | C 174 B | Slotted Fork - Drum | · 1 |
| 22 | C 160 B | Ball End | 2 |
| 23 | C 189 A | Compensator Link — Drum | 1 |
| | L 329/5 | Compensator Link — Disc | 2 |
| 24 | C 129 | Accelerator Pedal Lever | 1 |
| 25 | C 137 | Accelerator Pedal | |
| 26 | C 129 A | Tension Pin 3/16" x 1.1/4" Long | 1 |
| 27 | C299-1 | Priming Lever | 1 |
| 28 | C319 | Footbrake Pedal Pin & 2 Nuts ¾" UNF. | |
| 29 | WB 1212 | Footbrake Pedal Bush | ı |
| 30 | L 277 B | | 2 |
| 30 | L 2// B | H/Brake Rod 3/8" BSF x 47.1/2" | 1 |
| | L 329/3 | H/Brake Rod 3/8" BSF x 49.1/2" — Disc | 1 |
| 31 | L 292 | H/Brake Transfer Lever | 1 |
| 32 | L359 | H/Brake Connecting Rod | 1 |
| 33 | L309 | H/Brake Rod End | 1 |
| 34 | 303 | H/Brake Assembly | 1 |
| 35 | L360 | Clevis Pin | i |
| 36 | | Mush. Hd. Bolt 3/8" BSF x 1" long & Nut | 2 |



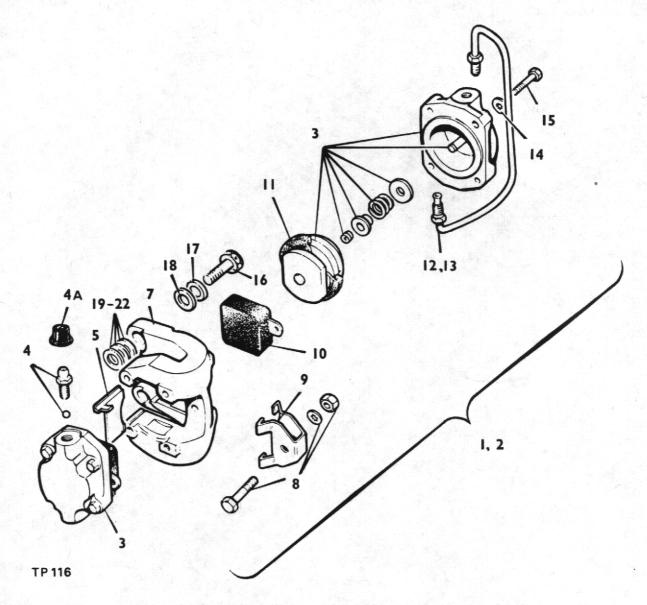
PEDALS & CONTROLS Cont'd.

| Item No. | Part No. | Description | No. Of |
|----------|----------|-------------------------|--------|
| 37 | C126/A | Clutch Pedal Bolt & Nut | 1 |
| 38 | WB1010 | Clutch Pedal Bush | 2 |
| 39 | T/ST | Grease Nipple | 3 |
| 40 | C126 | Clutch Pedal | 1 |
| 41 | L296 | Clutch Connecting Link | 1 |



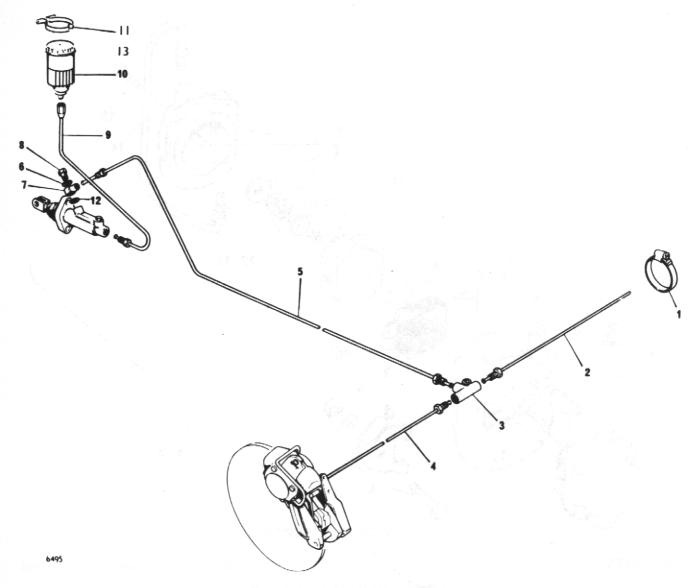
HANDBRAKE ASSEMBLY

| Item No. | Part No. | Description Qty |
|----------|---|---|
| 1 | CB 90256 | Handbrake Assembly complete RH |
| | CB 90257 | Handbrake Assembly complete LH |
| 2 | CB 20258 | Adjustment Nut |
| 3 | VBO 8307 | Friction Spring |
| 4 | CB 20562 | Lever Assembly |
| 5 | VBO 8315 | Hinge Pin |
| 6 | VBO 6135 D | Split Pin |
| 7 | VBO 7329 | Return Spring |
| 8 | VBO 7330 | Spring Anchor |
| 9 | VBO 8308 | Pivot Seat |
| 10 | CB 60249 8308 | Pad Carrier Assembly Inner Complete with Pivot Seat . 1 |
| 11 | VBO 6050 | Nut 2 B.A |
| 12 | VBO 6101F | Washer |
| 13 | VBO 4124 | Bolt |
| 14 | CB 20311Y | Friction Pad |
| 15 | VBM 4573 | Pad Carrier Outer |
| 16 | CB 20289 | Bolt |
| 17 | VBO 6158G | Split Pin |
| 18 | VBO 4190 | Bolt |
| 19 | VBO 4226 | Tab Washer |
| 20 | VBM 4635/1 | Retraction Plate |
| | 그리는 생물 이번 경에 가게 된다면 하다 그렇게 되었다면 하는 것이다. | 일본 - 12인터 15인터 프로프트 TOT (전화) 프랑스트라이트 스타스트 사람이 그리고 그리고 있는 사람들은 그리고 있는 그 나는 사람들이 되는 것을 다 되었다. |



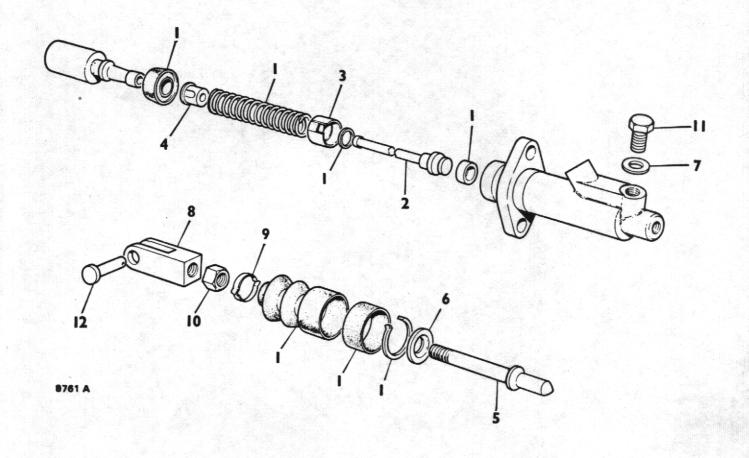
BRAKE CALIPER ASSEMBLY

| Item No. | Part No. | | Description | Qty |
|----------|-----------|-----|-----------------------------------|-------|
| 1 | CB 90262 | | Capliper Assembly Complete (RH) | 1 |
| 2 | CB 90263 | | Capliper Assembly Complete (LH) | 1 |
| 3 | VBO 5505 | | Piston and Cylinder Assembly | 2 |
| 4 | VBO 8378 | | Bleed Screw and Ball Assembly | 1 |
| 4A | CBO 849 | | Dust Cover (Bleedscrew) | 1 |
| 5 | VBO 5133 | | Plate, Support | 1 |
| 6 | CB 60253 | a · | Body, Caliper (LH) | 1 |
| 7 | CB 60252 | | Body, Caliper (RH) | 1 |
| 8 | VBO 8491 | | Nut, Boit and Washer (Keep Plate) | 1 |
| 9 | VBO 5123 | | Keep Plate | 1 |
| 10 | VBO 8360Y | | Friction Pad Complete (Set of 4) | 1 set |
| 11 | VBO 8210A | | Seal Kit (Dust & Piston) | 2 |
| 12 | VBO 3927 | | Bridge Pipe Assembly (LH) | 1 |
| 13 | VBO 3926 | | Bridge Pipe Assembly (RH) | 1 |
| 14 | VBO 6101L | | Washer, Shakeproof | 8 |
| 15 | VBO 5100 | | Bolt, Retaining (Cylinder) | 8 |
| 16 | 7BNF22B | | Caliper mounting bolt | 4 |
| 17 | 7W16 | | Washer | 4 |
| 18 | 7W14 | | Washer | 4 |
| 19 | 5HA138 | | Shim .003" | A/R |
| 20 | 5HA139 | | Shim .005" | A/R |
| 21 | 5HA140 | | Shim .010" | A/R |
| 22 | 5HA141 | | Shim .030" | A/R |



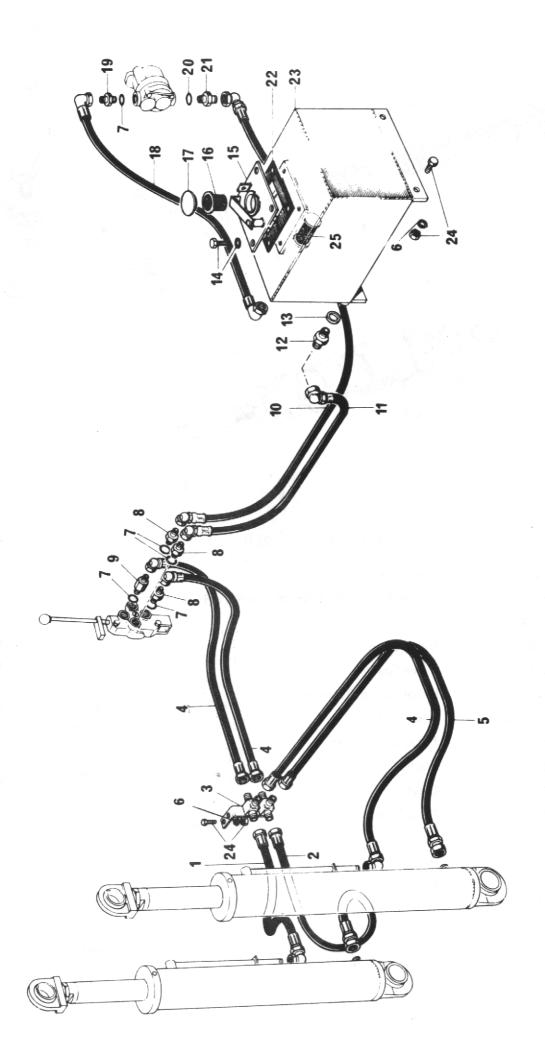
HYDRAULIC BRAKE SYSTEM

| Item No. | Part No. | Description | No. Off |
|----------|----------|-----------------|----------------|
| 14C 1 | 4-350-S | Hose Clip | 2 |
| 2 | 64473266 | Pipe (38") | 1 |
| 3 | 64474341 | Tee Piece | 1 |
| 4 | 64473383 | Pipe (21") | 1 |
| 5 | 3508610W | Pipe (43") | 1 |
| 6 | 378700 | Washer | 1 |
| 7 | 64474287 | Banjo | 1 |
| 8 | 376102W | Banjo Bolt | , 1 |
| 9 | 3424240W | Pipe (21") | 1 |
| 10 | 64046158 | Header Tank | ₈ 1 |
| 11 | 64477544 | Clip | ₽1 |
| 12 | 378703 | Washer | 91 |
| 13 | 64474602 | Header Tank Cap | / 1 |
| | | | |



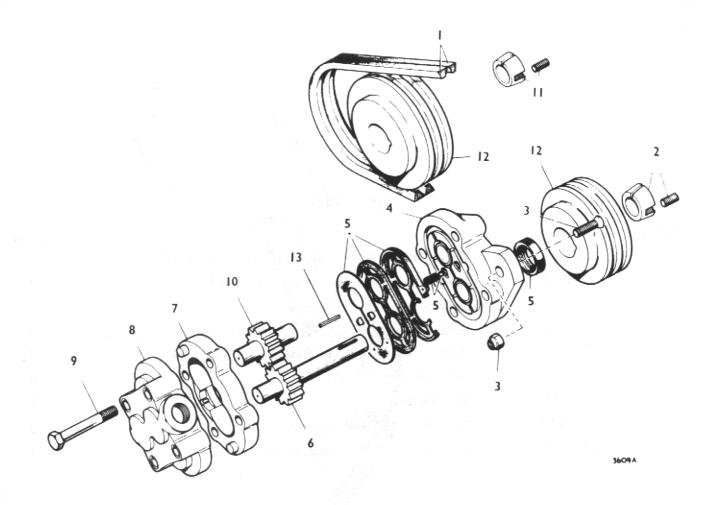
MASTER CYLINDER ASSEMBLY

| | | 요. 그 경영을 보면 있습니다. 이 이 이 이 이 이 사람들은 발생님은 이 경영을 받는 것이 되었다. 그 사람들은 사람들은 사람들이 되었다. | |
|----------|-----------|--|------|
| Item No. | Part No. | Description | Qty. |
| | 64067970 | Master Cylinder (Complete) | 1 |
| 1 | SP 1996/2 | Seal Kit | 1 |
| 2 | 378641 | Valve Stem | 1 |
| 3 | 318001 | Valve Spacer | i |
| 4 | 64673391 | Valve Spring Retainer | 1 |
| 5 | 351257 W | Push Rod | 1 |
| 6 | 378242 | Retaining Washer | 1 |
| 7 | 378700 | Washer | 1 |
| 8 | 64671286 | Clevis | 1 |
| 9 | 378312 | Dust Cover Retainer | 1 |
| 10 | 64100052 | Locknut | 1 |
| 11 | 64110348 | Plug | 1 |
| 12 | C174 Y | Clevis Pin | 1 |



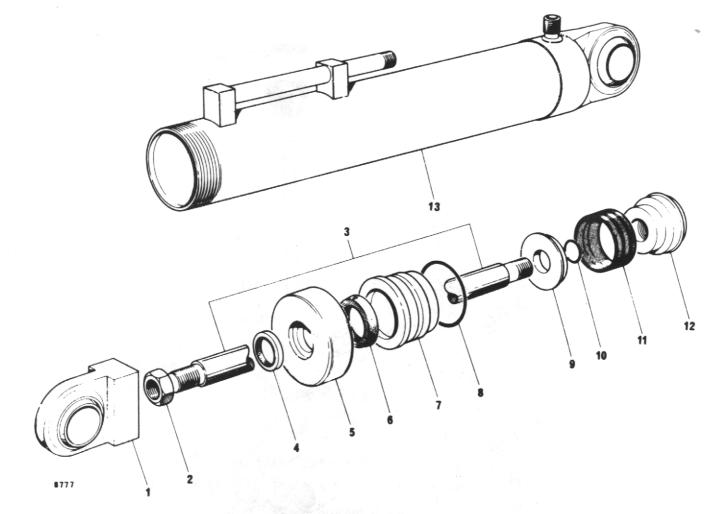
HYDRAULICS

| Item No. | Part No. | Description | | No. Off |
|----------|------------|---|--------------------|---------|
| 1 | 4/35-108 A | Hose - Tee to R.H. Ram Head - 18" - ST x 90° | | 1 |
| 2 | 3SHD 66 | Hose - Tee to R.H. Ram Base - 18" - ST x ST | | 1 |
| 3 | 5ST 93 | Six Way Hydraulic Bracket | | 1 |
| 4 | 4/35-108 H | Hose - Valve to Tee & Tee to LH Ram Head 311/2" (ST | —90 ⁰) | 3 |
| 5 | 3SHD 65 | Hose — Tee to L.H. Ram Base, 31.1/2' ST x ST | | 1 |
| 6 | | Spring Washer 3/8" dia. | | 6 |
| 7 | 2ST 72J | 'O' Ring Seal | | 5 |
| 8 | 4/35-40 K | 3/4" JIC x 3/8" BSP Adaptor | | 3 |
| 9 | 4/60-115 | 3/4" JIC x 3/8" BSP Adaptor, Long | | 1 |
| 10 | 3SHD 67 | Hose, Pump to Valve, 47", — 90° x 90° | | 1 |
| | | Children . | | |
| 11 | 5ST 85 | Hose, Valve to Tank, $27^{\prime\prime} - 90^{\circ} \times 90^{\circ}$ | | 1 |
| 12 | T 14 J | 3/8" BSP x 3/8" BSP Adaptor | | 1 |
| 13 | T 14 J | Sealing Washer | | 1 |
| 14 | | Bolt,5/16" UNF x 3/4" Long and Washer | | 4 |
| 15 | 4/35-187 | Cover Plate Assembly | | 1 |
| 16 | P 11 45 | Strainer | | 1 |
| 17 | P 2578-2 | Cap | | 1 |
| 18 | 2ST 72E | Hose - Tank to Pump, 16", - 90° x 90° | | 1 |
| | | | | |
| 19 | 2ST 72F | 3/4" JIC x - /2" BSP Adaptor | | 1 |
| 20 | 2ST 72K | 'O' Ring Seal | | 1 |
| 21 | 2ST 72G | 9/16" JIC x 3/8" BSP Adaptor | | 1 |
| 22 | T 18-B | Gasket | | 1 |
| 23 | 2ST-118 | Tank | | 1 |
| 24 | | Bolt, 3/8" BSF x 1" Long and Nut | | 6 |
| 25 | UC 1457 | Filter | | 1 |
| | | | | |



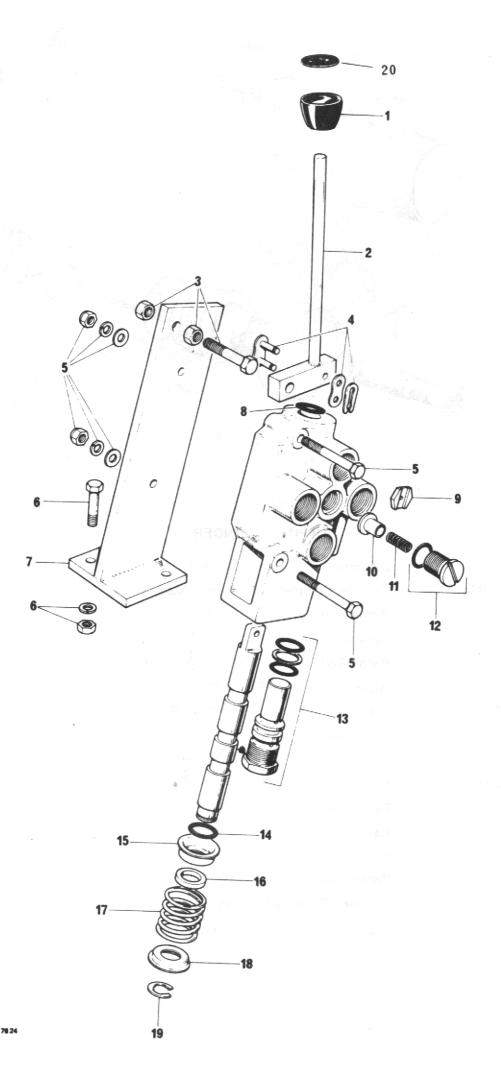
PUMP

| Item No. | Part No. | Description | No. Off |
|----------|--------------|--|---------|
| | H 20210-0AEA | Pump Assembly | |
| | | | |
| f 1 | 2ST 121 | Wedge Belt | 2 |
| | | | |
| 2 | 2ST 124 | Taper Lock Bush | 1 |
| 3 | | Countersunk Bolt & Nut 1.1/4" x 3/8" UNF | 2 |
| 4 | 20200-20 | Front Plate Assembly | 1 |
| 5 | 20200-34 | Seal Repair Kit | 1 |
| 6 | 20210-7 | Drive Gear Assembly | 1 |
| 7 | 20210-13 | Body & Dowel Assembly | 1 |
| 8 | 20200-36 | Back Plate Assembly | 1 |
| 9 | 16032-522 | Hex Screw | 4 |
| i 10 | 20210-8 | Idler Gear Assembly | 1 |
| 11 | 2ST 123 | Taper Lock Bush | . 1 |
| 12 | 2ST 122 | Pulley | 2 |
| 13 | 20200-25 | Key . | 1 |
| 14 | 3SHD 84 | Hydraulic Pump Drive Guard Assembly | 1 |



TIPPING CYLINDER

| Item No. | Part No. | Description | No. Off |
|----------|----------|--|---------|
| | TD 3894 | Cylinder Complete 2 off Each Machine | |
| 1 | K 1/11 | Piston Rod Fitting | 1 |
| 2 | K 1/19 | Locknut | 1 |
| 3 | K 1/2 | Piston Rod | 1 |
| 4 | K 1/18 | Wiper | 1 |
| 5 | K 1/4 | Tube Cap | 1 |
| 6 | K 1/17 | Sleeve Seal | 1 |
| 7 | K 1/5 | Sleeve | 1 |
| 8 | K 1/16 | Sleeve 'O' Ring | . 1 |
| 9 | K 1/15 | Backing Washer | 1 |
| 10 | K 1/13 | Piston 'O' Ring | 1 |
| 11 | K 1/12 | Piston Seal | 1 |
| 12 | K 1/14 | Piston Head | 1 |
| 13 | K 1/20 | Cylinder, Bosses & End Cap | 1 |
| 14 | CSE 189 | Seal Kit (Comprising items 4,6,8, 10 & 11) | A/R |



HYDRAULIC CONTROL VALVE

| | | and fractional state of the control of the control of the control of the state of the control o | |
|----------|-------------|---|---------|
| Item No. | Part No. | Description | No. Off |
| | 300-024-AAD | Hydraulic Control Valve | 1 |
| 1 | F4-45-184 | Control Knob | 1 |
| 2 | 3SHD 82 | Valve Control Lever | . 1 |
| 3 | | Pivot Bolt 3/8" BSF x 1.3/4" Long, and Nut | 1 |
| 4 | 4/60/178 | Connecting Link | 1 |
| 5 | | Bolt 5/16" UNF x 2.1/2" Long, and Nut | 2 |
| 6 | | Bolt 3/8" BSF x 1.1/4" Long, and Nut | 2 |
| 7 | 3SHD 55 | Control Valve Bracket | 1 |
| 8 | 100-147-063 | 'O' Ring | 1 |
| 9 | 16097-351 | Orifice Plate | 1 |
| 10 | 30501-12 | Lift Check Plunger | 1 |
| 11 | 30501-13 | Lift Check Spring | 1 |
| 12 | 30501-17 | Lift Check Plug Assembly | 1 |
| 13 | 300-055-L9A | Relief Valve Assembly | . 1 |
| 14 | 100-146-012 | 'O' Ring, 3/32" Dia. x 3/8" i/d. | 1 |
| 15 | 30501-10 | Deep Washer | 1 |
| 16 | 16048-31 | Washer, Spacer | 1 |
| 17 | 30501-39 | Spool Spring | 1 |
| 18 | 15546-6 | Shallow Washer | 1 |
| 19 | 16124-50 | Clip Ring - 1/2" Shaft | 1 |
| 20 | DM 156 | Hvd. Valve Control Knob Label | 1 |

DECIMAL, FRACTIONAL AND METRIC EQUIVALENTS

| Inches | | | Milli- | | Milli- | | | |
|--------------|---------|------------|-------------------|--------|-----------|-------------------------------|---------------------------------|--------|
| Fractions De | | Decimals | metres | | Fractions | Decimals | metres | |
| 1/64 | | | | 0.397 | 33/64 | | 0.515625 | 13.097 |
| | 1/32 - | | 0.03125 | 0.794 | | 17/32 | 0.53125 | 13,494 |
| 3/64 | | | | 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 98 | - 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 |
| 11/64 | 300 60 | | 0.171875 | 4.366 | 43/64 | A Participal Control | 0.671875 | 17.066 |
| | | 3/16 - | 0.1875 | 4.763 | | 11/ | 16 - 0.6875 | 17.463 |
| 3/64 - | | | | 5.159 | 45/64 | | 0.703125 | 17.859 |
| | 7/32 - | | | 5.556 | | | 0.71875 | 18.256 |
| 5/64 - | | | | 5.953 | 47/64 | | 0.734375 | 18.653 |
| | | 1/4 — | | 6.350 | 11.7 | 3 | /4 0.750 | 19.050 |
| 7/64 - | | | 0.265625 | 6.747 | 49/64 | | 0.765625 | 19.447 |
| | | _ | | 7.144 | | | 0.78125 | 19.844 |
| 9/64 - | | | 0.296875 | 7.541 | 51/64 | | 0.796875 | 20.241 |
| | | 5/16 — | | 7.938 | 0.,01 | 13/ | 16-0 8125 | 20.638 |
| 1/64 - | | | 0.328125 | 8.334 | 53/64 | 10/ | 0.828125 | 21.034 |
| | 11/32 - | | 0.34375 | 8.731 | 00,04 | 27/32 | | 21.431 |
| 3/64 | | | 0.359375 | 9.128 | 55/64 | | 0.859375 | 21.828 |
| | | | | 9.525 | 00,04 | | 그리다 살아가 아버지를 깨끗하면 그렇게 하나 왔다. 그게 | 22.225 |
| 5/64 - | | 0,0 | 0.375 0.390625 | 9.922 | 57/64 | 7 | 0.890625 | 22.622 |
| .0,01 | 13/32 — | | 0.40625 | 10.319 | 37704 | 29/32 | 0.000020 | 23.019 |
| 7/64 - | | | 0.421875 | 10.716 | 50/64 | 29/32 | 0.921875 | 23.416 |
| ,,,,, | | 7/16 — | | 11.113 | 33/04 | | 16-0.9375 | 23.813 |
| 9/64 - | | //10 | 0.453125 | 11.509 | 61/64 | | 0.953125 | 24.209 |
| .5/04 - | 15/32 — | | 0.46875 | 11.906 | 01/04 | 31/32 | | 24.209 |
| 11/64 - | 10/32 | W. Barrier | 0.484375 | 12.303 | 63/64 | 보이 배우, 회원 등 등 경험 경험 (1988) 사람 | 0.984375 | 25.003 |
| | | 1/2 — | | 12.303 | 03/04 | | 1 1.000 | 25.003 |

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