

# **WINGET**

## **OPERATING INSTRUCTIONS & SPARE PARTS LIST**

### **2B2000 DUMPER (CAPACITY 2000KG) PRODUCED UPTO FEBRUARY 1988**

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## INTRODUCTION

This Parts & Operators Manual is a re-print of the manual last published in 1984 and contains some amended part numbers.

**Note: This publication is applicable to machines produced upto February 1988 ending with Machine Serial No. 800131**

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 2B2000 Two 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.***

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

## **MACHINE MODIFICATION**

**WARNING** Any modifications to the machine will affect its working parameters and safety factors. Refer to the Manufacturers before fitting any non-standard equipment or parts.



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

## **TRAINING**

**WARNING** Only trained operators should use this machine.



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

It is strongly recommended that operators read the H.S.E. publication "Safe Working with Small Dumpers" which is available from government bookshops (HMSO) or from other bookshops quoting the following number ISBN 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.

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

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

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

## PREPARATION FOR USE

Before the Dumper is put into service, always check the following points:-

### ENGINE

Check the oil level on the dipstick, topping up if necessary.

### GEARBOX

Check the oil level on the dipstick, topping up if necessary.

### DRIVE AXLE & STEERING BOX

Remove filler/level plugs from drive axles and steering box and check that oil is up to bottom of holes. Top up if necessary, through filler/level plugs.

### FUEL TANK

Fill tank with diesel oil until approximately 1" from the top.

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

### HYDRAULIC TANK (IF FITTED)

Fill the hydraulic tank to within 2" of the top. Before removing the cap, clean the surrounding area to prevent the possible entry of foreign matter.

### HYDRAULIC BRAKE SYSTEM (IF FITTED)

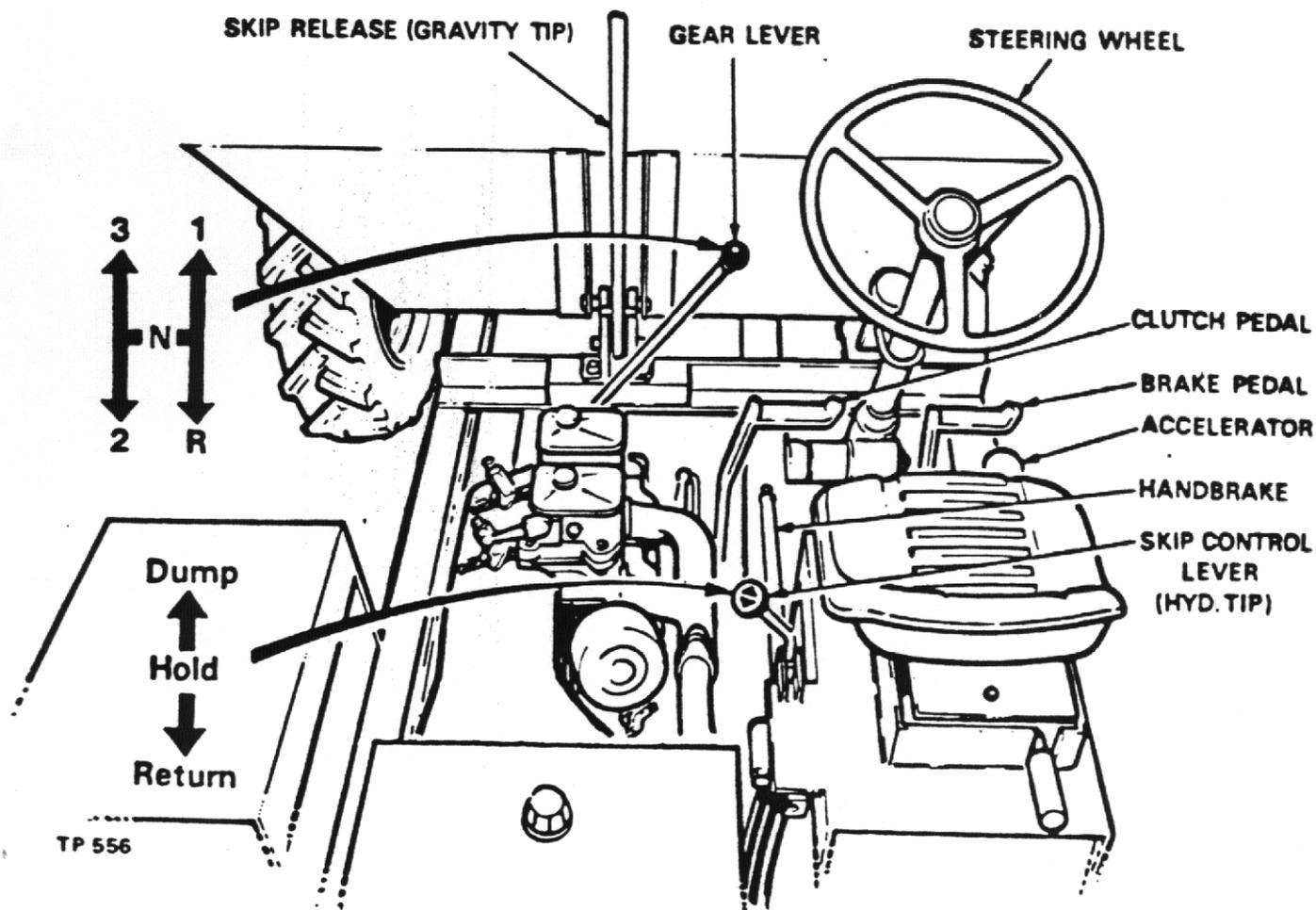
Ensure that the fittings are tight on pipes and check for leaks.

### 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 warranty.

N.B. FOR FURTHER INFORMATION ABOUT LUBRICATION AND RECOMMENDED OILS SEE RECOMMENDED LUBRICANT CHART & GENERAL MAINTENANCE SECTION.









## OPERATION (PETTER ENGINE)

### STARTING

1. Lift red-painted overload situated on fuel pump immediately above priming lever and move fuel pump racks into fully-open position.
2. Operate priming lever six times.

NOTE: This is unnecessary if engine is already warm.

3. Lift decompression lever positioned on top of engine and turn engine as fast as possible using starting handle. When engine is turning at a good speed knock down decompression lever and engine should fire.
4. 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

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

## OPERATION (LISTER ENGINE)

### STARTING

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

NOTE: This is unnecessary if engine is already warm.

2. Lift decompression levers 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.
3. 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.
4. Set overload lever horizontal when engine starts.

### STOPPING

Push overload lever to its lowest position.

### IMPORTANT

1. 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 CHANGING

The Dumper is fitted with three Forward and one Reverse gear. When changing gear, the clutch pedal is used in the normal way.

### SKIP RELEASE LEVER (Gravity Skip)

To tip skip pull back lever and release skip. To return skip to carrying position, pull skip back and ensure that skip is locked in skip catch.

### SKIP CONTROL LEVER (Hydraulic Skip)

1. Control lever has three positions DUMP, HOLD & RETURN.
2. Push lever forward to DUMP to deposit load.
3. Pull lever back to RETURN to return skip to carrying position.

### ROTATING SKIP (IF FITTED)

Pull cranked release lever on turntable catch fully back to release turntable. Revolve skip to required position. To lock in position lift release lock lever and ensure that locking lug locates in turntable locking plate. Cranked release lever will return to its former position.

GENERAL MAINTANANCE

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 approximately 1" of top. Never allow there to be a depth of less than 2" of fuel tank.

DAILY check tyre pressures and condition of tyres.

DAILY check all nuts and bolts and tighten if necessary.

WEEKLY check oil level in gearbox and fill to full mark on dipstick if necessary.

WEEKLY remove filler/level plugs from drive axles and steering box. Oil level should be to bottom of holes. Top up if necessary through filler/level plugs.

WEEKLY check oil level in hydraulic tank. Always clean the surrounding area before removing cap to prevent possible entry of foreign matter. Fill tank, if necessary to 2" of top.

WEEKLY check that fittings are tight on feed pipe from hydraulic tank. Check for leaks.

WEEKLY apply grease to all grease nipples.

WEEKLY check all nuts and bolts and tighten if necessary.

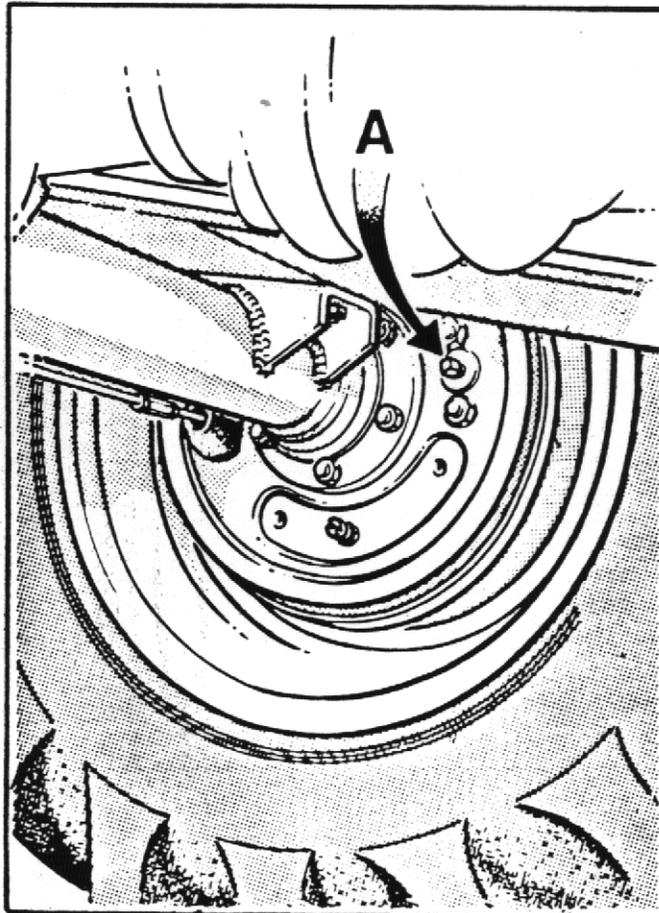
LUBRICATION

| Period          | Description                       | Lubrication   | No. of Points |
|-----------------|-----------------------------------|---------------|---------------|
| Daily           | Engine                            | Engine Oil    | 1             |
|                 | Fuel Tank                         | Diesel Fuel   | 1             |
| Weekly          | Gearbox                           | Gearbox Oil   | 1             |
|                 | Drive Axles                       | Axle Oil      | 2             |
|                 | Hydraulic Tank                    | Hydraulic Oil | 1             |
|                 | Footbrake Pedal                   | Grease Gun    | 1             |
|                 | Accelerator Pedal                 | Grease Gun    | 1             |
|                 | Clutch Pedal                      | Grease Gun    | 1             |
|                 | Clutch Cross Shaft                | Grease Gun    | 2             |
|                 | Skip Pivot                        | Grease Gun    | 2             |
|                 | Handbrake                         | Grease Gun    | 1             |
|                 | Prop Shafts &<br>Universal Joints | Grease Gun    | 4             |
|                 | Steering Box                      | Axle Oil      | 1             |
| Rear Axle Pivot | Grease Gun                        | 1             |               |

NOTE: For full details of the lubrication and maintenance of the engine refer to Manufacturer's Manual.

### BRAKE ADJUSTMENT (DRUM BRAKES)

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



## BRAKE SYSTEM (Newage Axle)

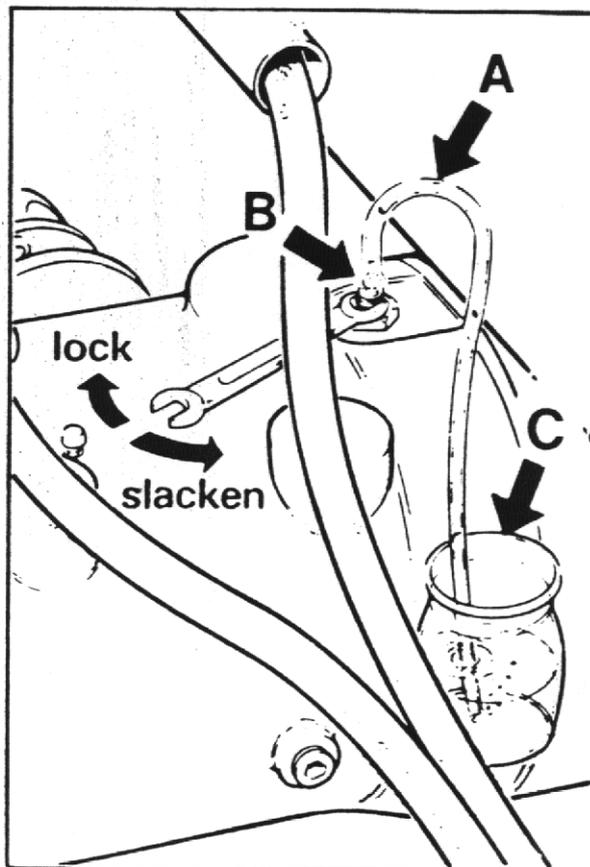
The brake system is designed to require the minimum of maintenance and no defects should normally occur. If air is present in the system, it will be indicated by sluggish response of the brakes and by spongy action of the brake pedal. This may be due to air being introduced at a loose joint. Any defects must be remedied immediately and the complete system bled.

To bleed the system, proceed as follows:-

1. Check that all connections are tight and all bleed screws are closed.
2. Check that there is sufficient oil in main hydraulic tank.
3. Attach bleeder tube (A) (See Fig.) to the bleed screw (B) on front axle and immerse other end in a small quantity of hydraulic oil contained in a glass jar (C). Slacken bleed screw and operate brake pedal up and down to its full stroke, until oil pumped into the jar contains no air bubbles. Hold down pedal and close bleed screw. Remove bleeder tube and release pedal.
4. Carry out the procedure on the bleedscrew on the rear axle and continue until all air has been bled from the system.
5. Lock all the bleed screws.
6. Apply normal working load on brake pedal for two or three minutes and examine the entire system for leaks.

NOTES:- ALWAYS ENSURE THAT FREE PLAY EXISTS BETWEEN BRAKE PEDAL AND MASTER CYLINDERS. UNLESS THE PISTONS IN BOTH MASTER CYLINDERS ARE ALLOWED TO FULLY RETURN, BRAKE PRESSURE WILL BUILD UP AND THE BRAKES WILL REMAIN ON.

THE NEWAGE AXLE HAS SELF ADJUSTING BRAKES WHICH AUTOMATICALLY MEANS THAT THE DUAL LIFE LINE SAFETY SYSTEM IS ALWAYS READY TO RESPOND IN THE EVENT OF PROBLEMS.



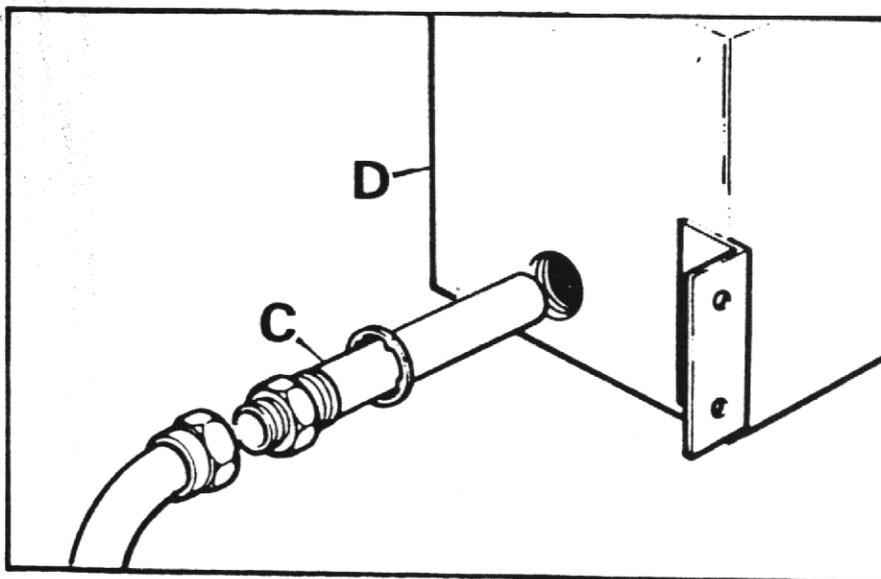
The main hydraulic system controls the dumping and return of the skip. If the skip fails to operate or does so extremely slowly, carry out the following procedures until the fault is rectified.

1. Check that hydraulic tank is full of oil.
2. (a) Drain Hydraulic tank.  
(b) Unscrew suction filter (C) from tank (D) and wash in white spirit. Dry with moisture-free compressed air.  
(c) Replace suction filter and filler cap assembly.  
(d) Check hydraulic pump drive belts and adjust if necessary.

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

3. Check that hydraulic pressure is correct.
  - (a) Fit a 2000 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 1750 p.s.i. when ram is fully-extended and relief valve is "blowing".

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.



RECOMMENDED LUBRICATING OILS - NEWAGE AXLE

| COMPANY   | ENGINE  | NEWAGE DRIVE AXLE                        | TRANSFER BOX  | GEARBOX  | WHEEL BEARINGS & OTHER GREASE POINTS                 | HYDRAULIC SYSTEM  |
|---|---|--|---|--|--|---|
| (U.K.)<br>ESSO<br>SUMMER<br>WINTER<br>ABOVE 32°C<br>0°C - 32°C<br>(OVERSEAS) BELOW 0°C                          | ESSOLUBE GDX 20W<br><br>ESSOLUBE HDX 30<br>ESSOLUBE HDX 20W<br>ESSOLUBE HDX 10W                       | TORQUE FLUID 62                          | GEAR OIL 85W/140<br><br>GEAR OIL GP 85W/140<br>GEAR OIL GP 85W/140<br>GEAR OIL GP 80W   | ESSOLUBE HDX 30<br><br>ESSOLUBE HDX 30         | BEACON 2<br><br>BEACON 2                             | NUTO H32<br><br>NUTO H68<br>NUTO H32<br>NUTO H22        |
| (U.K.)<br>CASTROL<br>SUMMER<br>WINTER<br>ABOVE 32°C<br>0°C - 32°C<br>(OVERSEAS) BELOW 0°C                       | DEUSOL CRI 20<br><br>DEUSOL CRI 30<br>DEUSOL CRI 20<br>DEUSOL CRI 10                                  | AGRICASTROL AS<br>AGRICASTROL AS SPECIAL | DEUSOL EP 90<br><br>DEUSOL GEAR EP 140<br>DEUSOL GEAR EP 90<br>DEUSOL GEAR EP 80  | DEUSOL CRI 30<br><br>DEUSOL CRI 30             | CASTROL SPHEEROL APT 2<br><br>CASTROL SPHEEROL APT 2 | CASTROL<br>HYSPIN AMS 32                                |
| (U.K.)<br>SHELL<br>SUMMER<br>WINTER<br>ABOVE 32°C<br>0°C - 32°C<br>(OVERSEAS) BELOW 0°C                         | ROTELLA SX OIL 20/20W<br><br>ROTELLA SX OIL 30<br>ROTELLA SX OIL 20/20W<br>ROTELLA SX OIL 10W         |  | SPIRAX 90 EP<br><br>SPIRAX 140 EP<br>SPIRAX 90 EP<br>SPIRAX 80 EP   | ROTELLA SX OIL 30<br><br>ROTELLA SX OIL 30     | RETINAX A<br><br>RETINAX A                           | TELLUS OIL 37   |
| (U.K.)<br>BP<br>SUMMER<br>WINTER<br>ABOVE 32°C<br>0°C - 32°C<br>(OVERSEAS) BELOW 0°C                            | VENELLUS M20W<br><br>VENELLUS M30<br>VANELLUS M20W<br>VANELLUS M10W                                   |  | GEAR OIL SAE 90EP<br><br>GEAR OIL SAE 140EP<br>GEAR OIL SAE 90EP<br>GEAR OIL SAE 80EP   | VANELLUS M30<br><br>VANELLUS M30               | ENERGREASE L2<br><br>ENERGREASE L2                   | ENERGOL HLP 65  |
| (U.K.)<br>MOBIL<br>SUMMER<br>WINTER<br>ABOVE 32°C<br>0°C - 32°C<br>(OVERSEAS) BELOW 0°C<br><br>ALL TEMPERATURES | DELVAC 1220<br><br>DELVAC 1230<br>DELVAC 1220<br>DELVAC 1210<br>DELVAC SPECIAL 10W-30                 | MOBILFLUID 422                           | MOBILUBE HD 90<br>MOBILUBE GX 90<br><br>MOBILUBE HD140<br>MOBILUBE GX 140<br>MOBILUBE HD 90<br>MOBILUBE GX 90<br>MOBILUBE HD 80<br>MOBILUBE GX 80 | DELVAC 1230<br><br>DELVAC 1230                 | MOBILGREASE MP<br><br>MOBILGREASE SUPER              | DTE 24  |
| (U.K.)<br>WALKERS CENTURY<br>SUMMER<br>WINTER<br>ABOVE 32°C<br>0°C - 32°C<br>(OVERSEAS) BELOW 0°C               | CENTLUBE SUPREME 20W-20<br><br>CENTLUBE SUPREME 30<br>CENTLUBE SUPREME 20W-20<br>CENTLUBE SUPREME 10W |  | EP 90<br><br>UNIVERSAL 80W-140<br>GEAR OIL  | CENTLUBE SUPREME 30<br><br>CENTLUBE SUPREME 30 | REGULUS A2<br><br>REGULUS A2                         | CENTURY PWL A<br>HYD. OIL<br><br>PWL/C<br>PWL/A<br>P313 |

IN THE UNLIKELY EVENT OF THE ABOVE OILS NOT BEING AVAILABLE EQUIVALENT OILS SUPPLIED BY A REPUTABLE MANUFACTURER MAY BE USED.

RECOMMENDED LUBRICATING OILS - SALISBURY AXLES

| COMPANY                   | ENGINE   | DRIVE AXLE<br>TRANSFER BOX<br>& STEERING BOX   | GEARBOX             | WHEEL BEARINGS<br>& OTHER<br>GREASE POINTS | HYDRAULIC SYSTEM                 |
|---------------------------|--|--|---------------------|--|----------------------------------|
| (U.K.)<br>ESSO            | ESSOLUBE HDX 20W   | GEAR OIL GP 85W140   | ESSOLUBE HDX 30     | BEACON 2                                   | NUTO H32                         |
| (OVERSEAS)                | ESSOLUBE HDX 30<br>ESSOLUBE HDX 20W<br>ESSOLUBE HDX 10W                | GEAR OIL GP 85W/140<br>GEAR OIL GP 85W/140<br>GEAR OIL GP 80W  | ESSOLUBE HDX 30     | BEACON 2                                   | NUTO H88<br>NUTO H32<br>NUTO H22 |
| (U.K.)<br>CASTROL         | DEUSOL CRI 20  | DEUSOL GEAR EP 90  | DEUSOL CRI 30       | CASTROL<br>SPHEEROL APT 2                  | CASTROL<br>HYSPIN AWS 32         |
| (OVERSEAS)                | DEUSOL CRI 30<br>DEUSOL CRI 20<br>DEUSOL CRI 10                        | DEUSOL GEAR EP 140<br>DEUSOL GEAR EP 90<br>DEUSOL GEAR EP 80   | DEUSOL CRI 30       | CASTROL<br>SPHEEROL APT 2                  |                                  |
| (U.K.)<br>SHELL           | ROTELLA SX OIL 20/20W  | SPIRAX 90 EP   | ROTELLA SX OIL 30   | RETINAX A                                  | TELLUS OIL 37                    |
| (OVERSEAS)                | ROTELLA SX OIL 30<br>ROTELLA SX OIL 20/20W<br>ROTELLA SX OIL 10W       | SPIRAX 140 EP<br>SPIRAX 90 EP<br>SPIRAX 80 EP  | ROTELLA SX OIL 30   | RETINAX A                                  |                                  |
| (U.K.)<br>BP              | VANELLUS M20W  | GEAR OIL SAE 90EP  | VANELLUS M30        | ENERGREASE L2                              | ENERGOL HLP 65                   |
| (OVERSEAS)                | VANELLUS M30<br>VANELLUS M20W<br>VANELLUS M10W                         | GEAR OIL SAE 140 EP<br>GEAR OIL SAE 90 EP<br>GEAR OIL SAE 80 EP  | VANELLUS M30        | ENERGREASE L2                              |                                  |
| (U.K.)<br>MOBIL           | DELVAC 1220  | MOBILUBE HD 90<br>MOBILUBE GX 90   | DELVAC 1230         | MOBILGREASE MP<br>SUPER                    | DTE 24                           |
| (OVERSEAS)                | DELVAC 1230<br>DELVAC 1220<br>DELVAC 1210<br>DELVAC SPECIAL 10W-30     | MOBILUBE HD 140<br>MOBILUBE GX 140<br>MOBILUBE HD 90<br>MOBILUBE GX 90<br>MOBILUBE HD 80<br>MOBILUBE GX 80 | DELVAC 1230         |  |                                  |
| (U.K.)<br>WALKERS CENTURY | CENTLUBE SUPREME 20W-20  | EP 90  | CENTLUBE SUPREME 30 | REGULUS A2                                 | CENTURY PMLA<br>HYD. OIL         |
| (OVERSEAS)                | CENTLUBE SUPREME 30<br>CENTLUBE SUPREME 20W-20<br>CENTLUBE SUPREME 10W | UNIVERSAL 80W-140 GEAR OIL   | CENTLUBE SUPREME 30 | REGULUS A2                                 | PMLC<br>PMLA<br>P313             |

IN THE UNLIKELY EVENT OF THE ABOVE OILS NOT BEING AVAILABLE  
EQUIVALENT OILS SUPPLIED BY A REPUTABLE MANUFACTURER MAY BE USED

RECOMMENDED TORQUE FIGURES FOR FASTENERS

2B2000

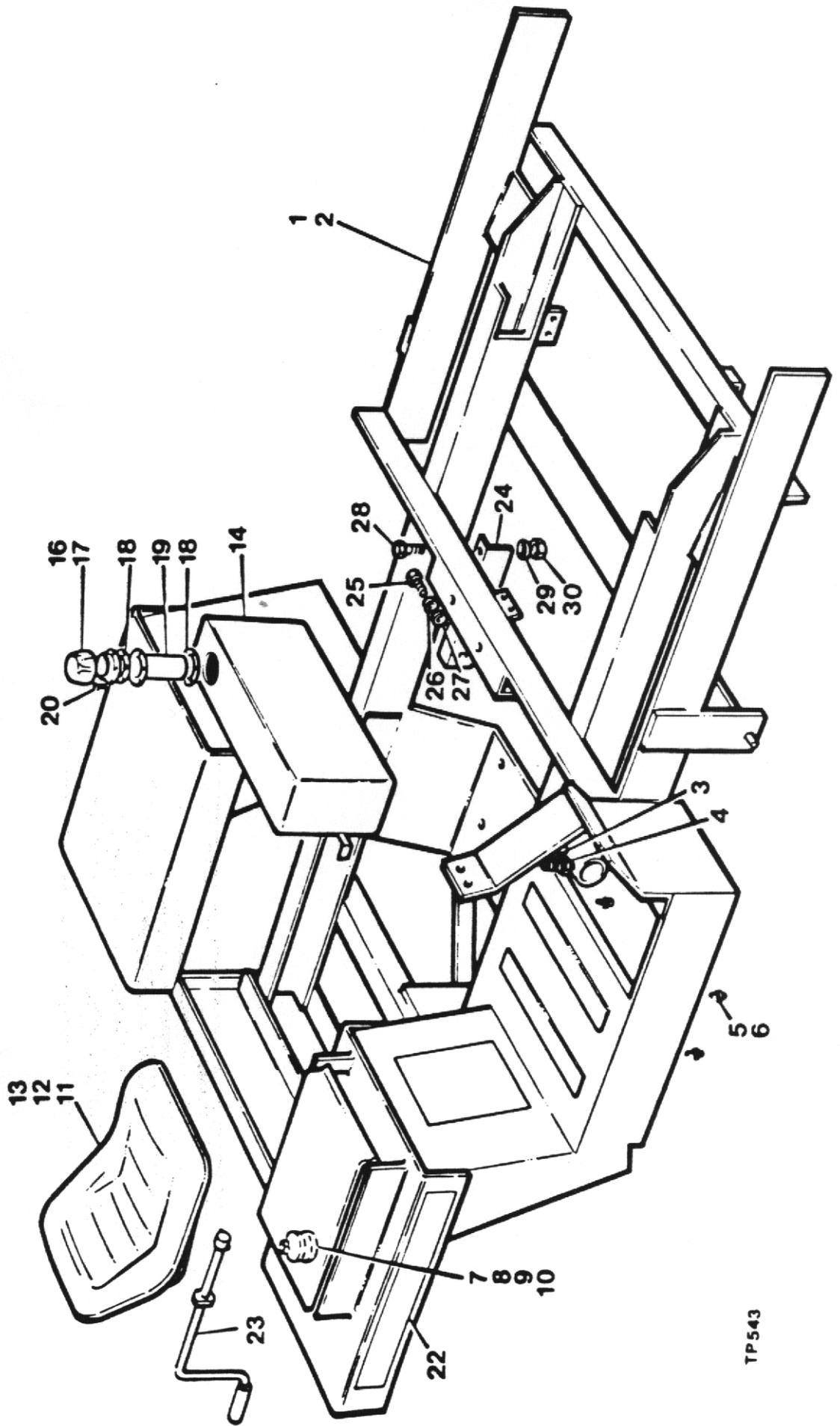
| DESCRIPTION                      | TIGHTENING TORQUE |          |
|----------------------------------|-------------------|----------|
|                                  | lb. ft.           | Kg.m.    |
| Bolt & Nut M6 .....              | 8                 | ( 1.1 )  |
| Bolt & Nut M8 .....              | 21                | ( 3.0 )  |
| Bolt & Nut M10 .....             | 42                | ( 5.9 )  |
| Prop Shaft Bolts 3/8" UNF .....  | 29                | ( 4.32 ) |
| Prop Shaft Bolts 7/16" UNF ..... | 46                | ( 6.85 ) |
| Engine Bolts/Nuts M12 .....      | 72                | ( 10.7 ) |
| Axle Bolts 1/2" UNF .....        | 72                | ( 10.7 ) |
| Wheel Nuts 5/8" BSF .....        | 180               | ( 25 )   |
| Wheel Nuts 7/8" BSF .....        | 300               | ( 42 )   |
| Wheel Nuts M18 .....             | 200               | ( 28 )   |
| Axle Bolts/Nuts M16 .....        | 180               | ( 26.8 ) |

# SPARE PARTS SECTION

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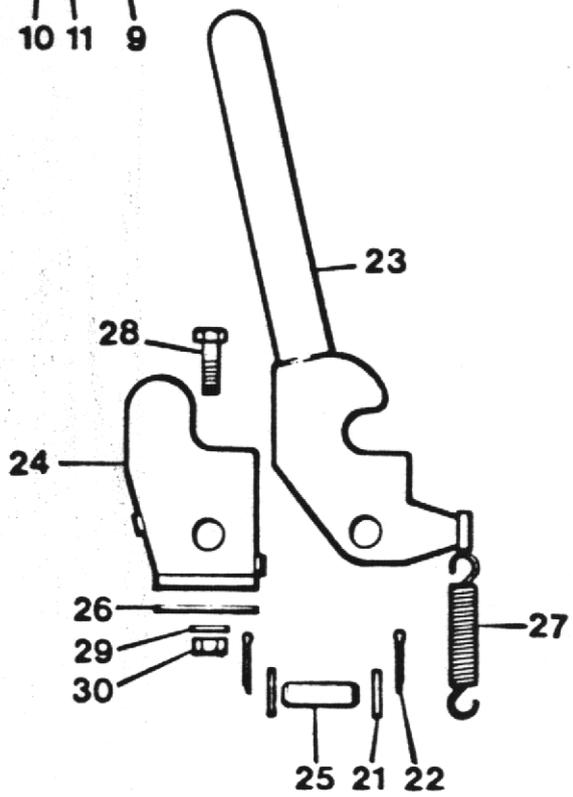
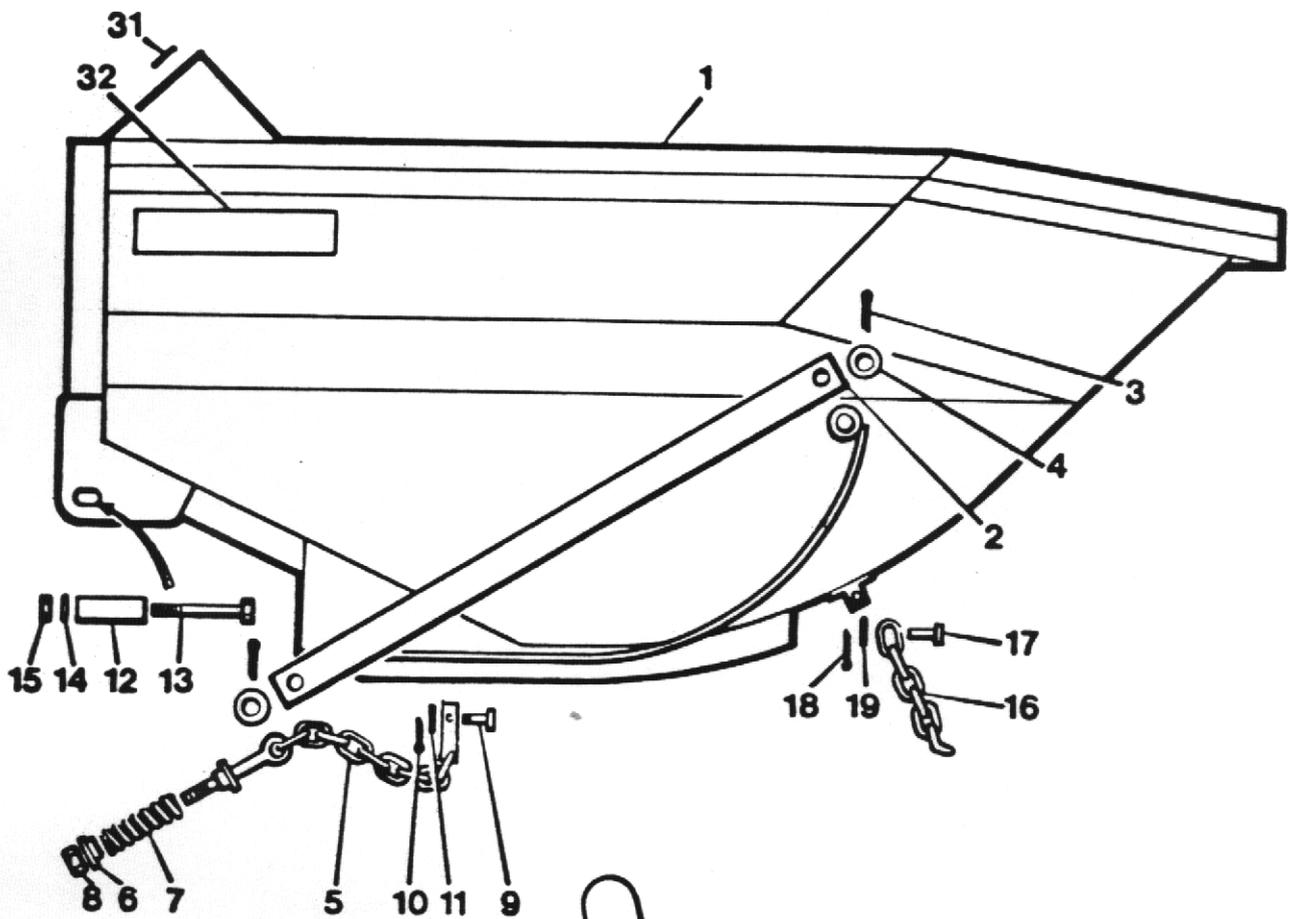
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TP543

CHASSIS

| Item No. | Part No.    | Description  | Qty. |
|----------|-------------|--|------|
| 1        | 40298.A01   | Chassis (Petter) .....                             | 1    |
| 2        | 40298.A02   | Chassis (Lister) .....                             | 1    |
| 3        | 57S.07H1    | Setscrew - Hex. Skt. Hd. M12 x 25 .....            | 2    |
| 4        | 56S.05      | Nut - Hex. Half M12 .....                          | 2    |
| 5        | 131S.03     | Nipple - Grease .....                              | 3    |
| 6        | 176S.01     | Cap - Grease Nipple .....                          | 3    |
| 7        | 10519.A01   | Spring - Seat .....                                | 1    |
| 8        | 11S.04C     | Screw M10 x 25 .....                               | 1    |
| 9        | C180B       | Washer 3/8" I.D. ....                              | 1    |
| 10       | 59S.03      | Nut M10 .....                                      | 1    |
| 11       | 20072.A01   | Seat .....   | 1    |
| 12       | 69S.02C     | Screw 5/16" UNC .....                              | 4    |
| 13       | 41S.04      | Washer 5/16" I.D. ....                             | 4    |
| 14       | 30286.A04   | Tank - Diesel Oil (Petter) .....                   | 1    |
| 15       | 10565.A01   | Cap - Filler (Comprising items 16 - 20) .....      | 1    |
| 16       | 10565.A0102 | Cap .....  | 1    |
| 17       | 10565.A0101 | Gasket - Cork .....                                | 1    |
| 18       | 10565.A0103 | Gasket - Paper .....                               | 2    |
| 19       | 10565.A0104 | Strainer .....                                     | 1    |
| 20       | 82S.03F     | Screw .....  | 6    |
| 21       | 10317.A01   | Label - Chassis .....                              | 1    |
| 22       | 20235.A15   | Label - Machine Identification .....               | 2    |
| 23       | 20155.A03   | Handle - Starting .....                            | 1    |
| 24       | 20282.A06   | Bracket - Gearbox Mounting .....                   | 1    |
| 25       | 28S.03D     | Screw 3/8" UNF x 3/4" .....                        | 2    |
| 26       | 41S.05      | Washer - Spring 3/8" UNF I.D. ....                 | 2    |
| 27       | 10S.03      | Washer 3/8" I.D. ....                              | 2    |
| 28       | 6S.05C      | Screw 1/2" UNF x 1 1/2" .....                      | 1    |
| 29       | 10S.04      | Washer 1/2" I.D. ....                              | 1    |
| 30       | 107S.16     | Nut 1/2" UNF Nyloc .....                           | 1    |
| 31       | 20132.A02   | Label - Dumper Safety (Not illustrated) .....      | 1    |
| 32       | 101S.05D    | Rivet - Pop .....                                  | 6    |
| 33       | 10546.A03   | Label - "Diesel Oil" - (Not illustrated) .....     | 1    |
| 34       | 11S.02B     | Screw M6 x 20 (Fuel Filter Bowl)-(Not illus.) .... | 2    |
| 35       | 12S.14      | Washer 6 I/D .....                                 | 2    |
| 36       | 7S.02       | Nut M6 .....                                       | 2    |

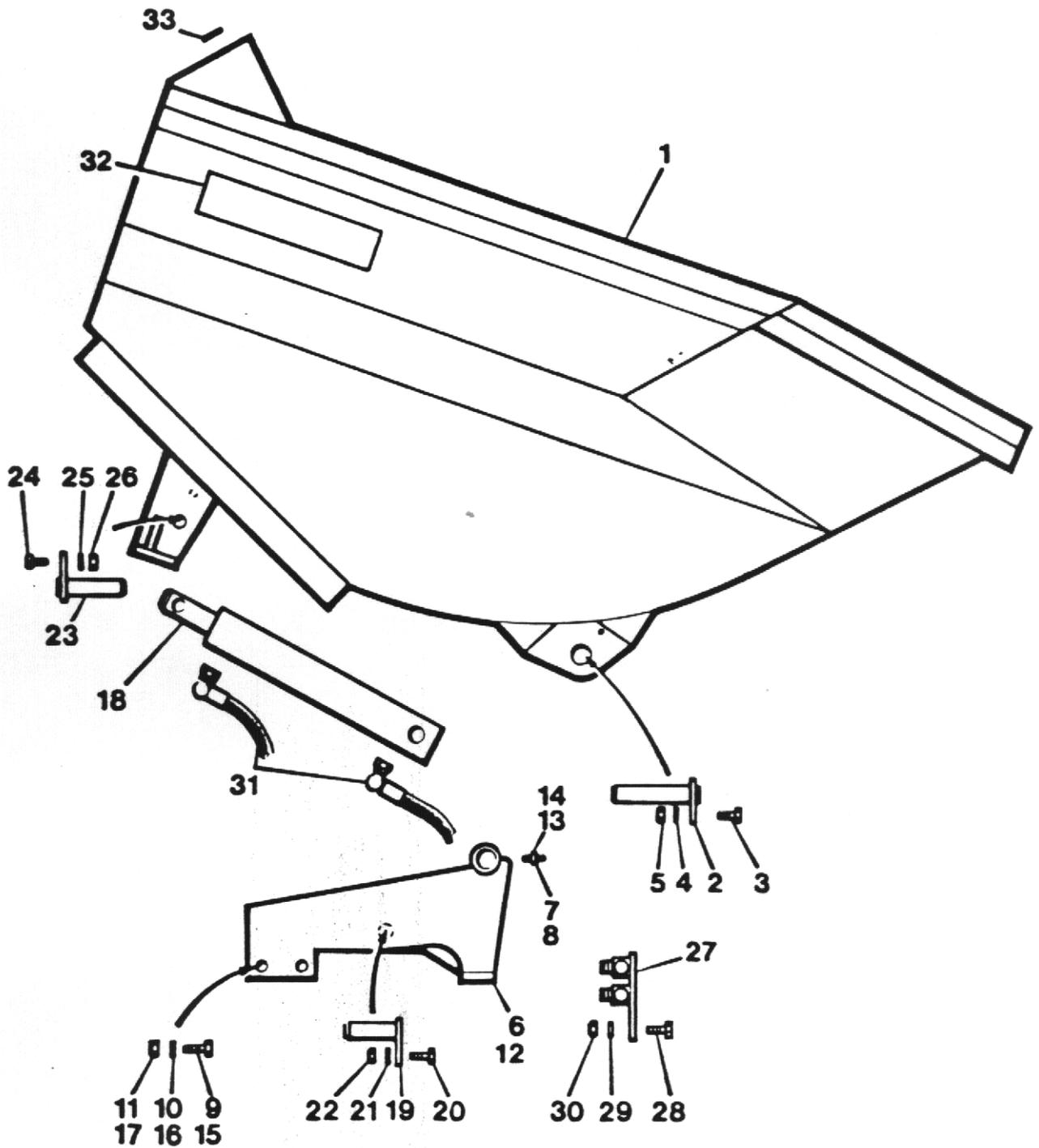


TP 561

## SKIP - GRAVITY TIP

2B2000

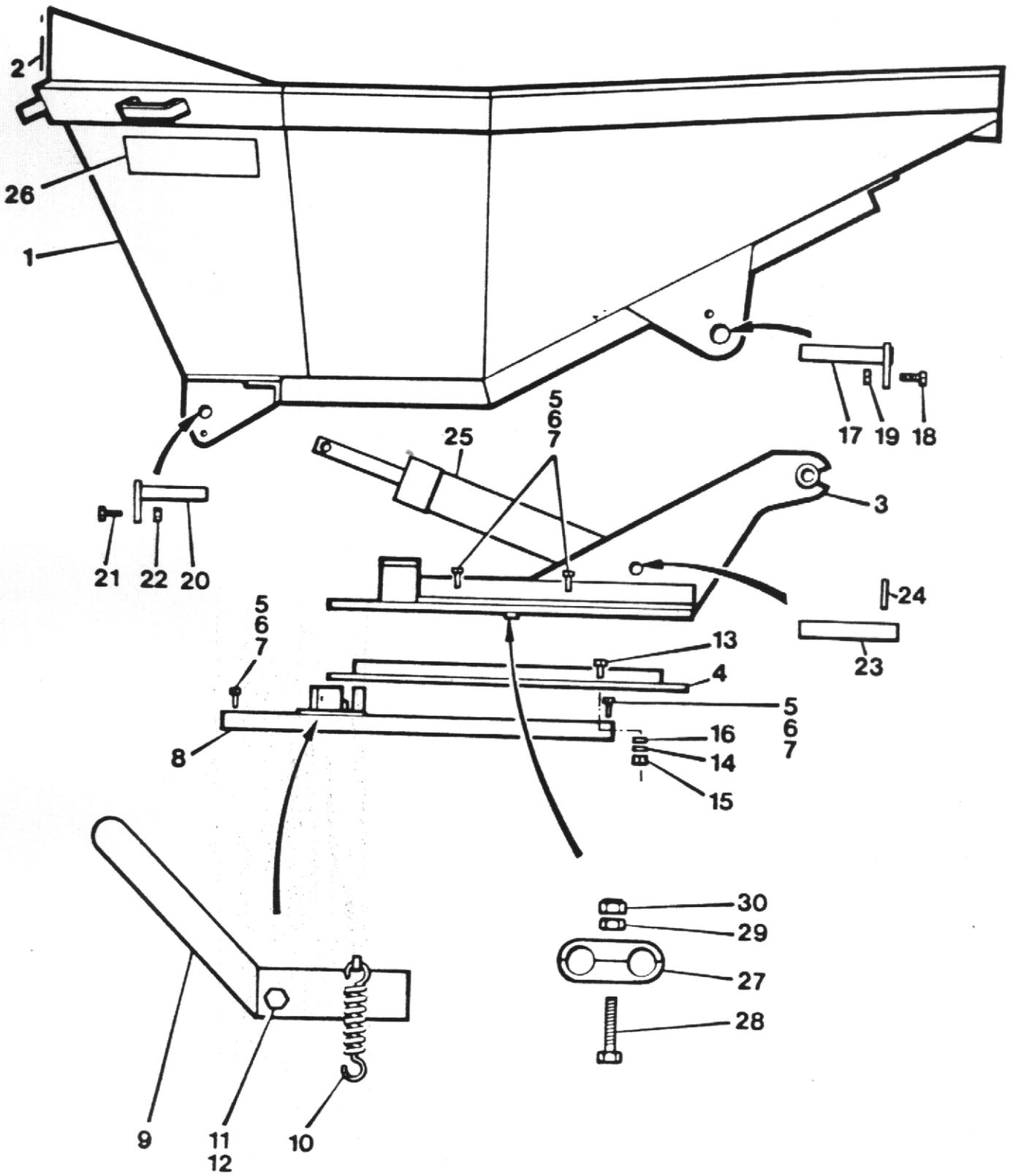
| Item No. | Part No.    | Description                                   | Qty. |
|----------|-------------|---|------|
| 1        | 40320.A01   | Skip .....                                    | 1    |
| 2        | 10892.A03   | Arm - Radius .....                            | 2    |
| 3        | 44S.05      | Pin - Split 3/16" x 2" .....                  | 4    |
| 4        | 10S.06      | Washer .....                                  | 4    |
| 5        | 20286.A09   | Chain - Skip Check .....                      | 2    |
| 6        | L303        | Collar - Spring .....                         | 4    |
| 7        | L256B       | Spring .....                                  | 2    |
| 8        | 59S.11      | Nut - Lock M16 Nyloc .....                    | 2    |
| 9        | 10650.A04   | Pin - Clevis .....                            | 2    |
| 10       | 44S.03C     | Pin - Split 1/8" x 1" .....                   | 2    |
| 11       | 10S.04      | Washer - Plain 1/2" I.D. ....                 | 2    |
| 12       | C140A       | Tube - Catch .....                            | 1    |
| 13       | 8S.06Q      | Bolt M16 x 110 .....                          | 1    |
| 14       | 12S.07      | Washer M16 I.D. ....                          | 2    |
| 15       | 59S.11      | Nut M16 .....                                 | 1    |
| 16       | 20286.A08   | Chain - Front .....                           | 2    |
| 17       | 10650.A19   | Pin - Clevis .....                            | 2    |
| 18       | 44S.02B     | Pin - Split 1/8" x 1" .....                   | 2    |
| 19       | 10S.03      | Washer - Plain .....                          | 2    |
| 20       | 40296.A01   | Catch - Skip (Comprising items 21 - 25) ..... | 1    |
| 21       | 10S.06      | Washer - Plain 3/4" I.D. ....                 | 2    |
| 22       | 44S.04E     | Pin - Split 5/32" x 1 1/2" .....              | 2    |
| 23       | 10912.A02   | Lever .....                                   | 1    |
| 24       | 10912.A04   | Body .....                                    | 1    |
| 25       | 40296.A0105 | Pin - Pivot .....                             | 1    |
| 26       | 10054.A04   | Packer .....                                  | 1    |
| 27       | C173B       | Spring .....                                  | 2    |
| 28       | 11S.06G     | Screw M16 x 45 .....                          | 2    |
| 29       | 12S.07      | Washer - Plain M16 I.D. ....                  | 2    |
| 30       | 59S.11      | Nut - Hex M16 Nyloc .....                     | 2    |
| 31       | 10541.A14   | Label - Payload .....                         | 1    |
| 32       | 10976.A03   | Label - "Wibau Winget" .....                  | 2    |



TP 560

## SKIP - HYDRAULIC TIP

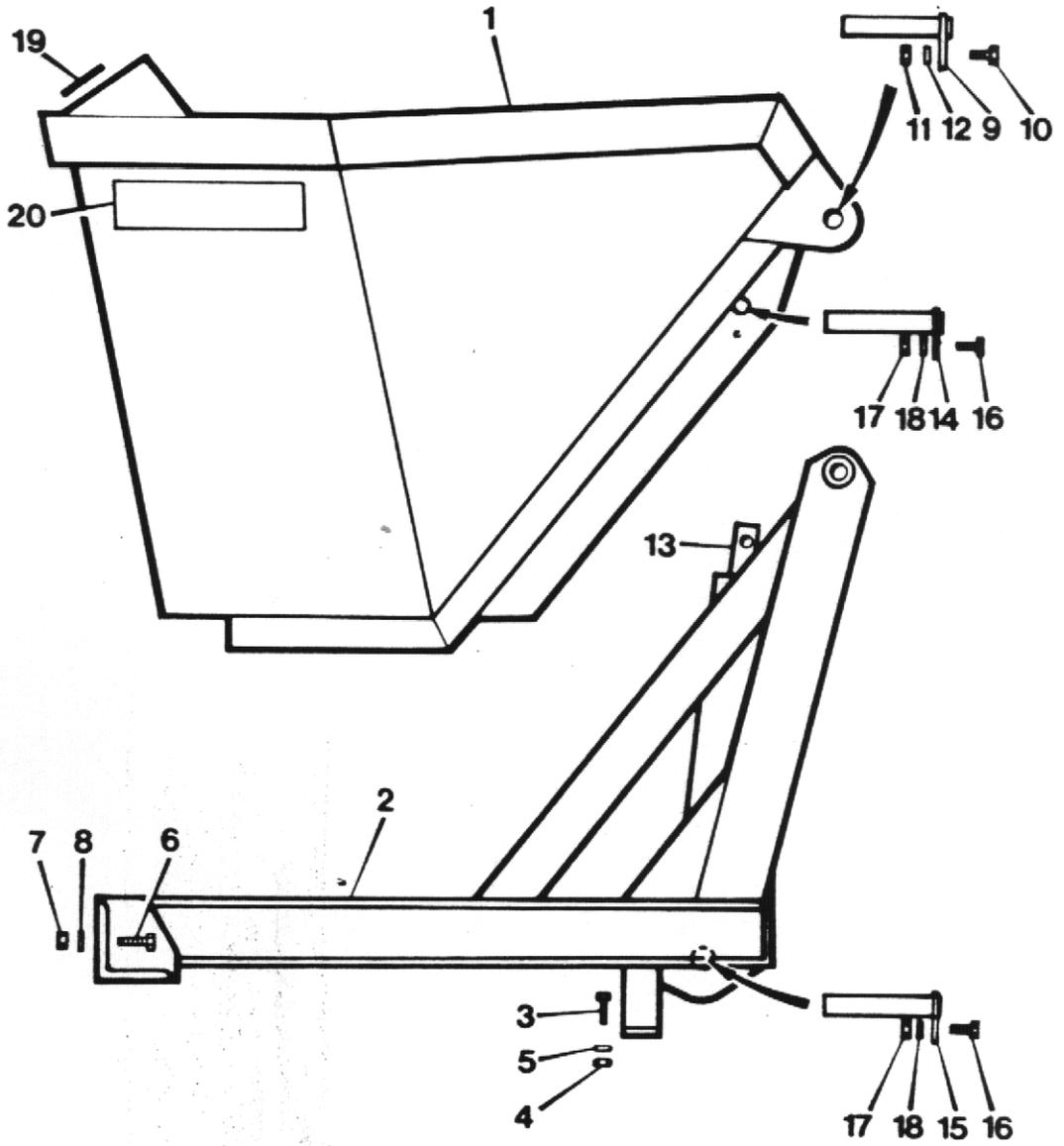
| Item No. | Part No.  | Description                  | Qty. |
|----------|-----------|------------------------------|------|
| 1        | 40320.A02 | Skip .....                   | 1    |
| 2        | 10470.A10 | Pin - Skip Pivot .....       | 2    |
| 3        | 11S.04D   | Screw M10 x 30 .....         | 2    |
| 4        | 12S.19    | Washer - Spring 10 I.D. .... | 2    |
| 5        | 59S.03    | Nut - Nyloc M10 .....        | 2    |
| 6        | 30126.A14 | Bracket - Pivot R.H. ....    | 1    |
| 7        | 131S.03   | Nipple - Grease .....        | 1    |
| 8        | 176S.01   | Cap - Grease Nipple .....    | 1    |
| 9        | 8S.05E    | Screw M12 x 45 .....         | 3    |
| 10       | 17S.06    | Washer - Spring 12 I.D. .... | 3    |
| 11       | 7S.05     | Nut M12 .....                | 3    |
| 12       | 30126.A15 | Bracket - Pivot L.H. ....    | 1    |
| 13       | 131S.03   | Nipple - Grease .....        | 1    |
| 14       | 176S.01   | Cap - Grease Nipple .....    | 1    |
| 15       | 8S.05E    | Screw M12 x 45 .....         | 3    |
| 16       | 17S.06    | Washer - Spring 12 I.D. .... | 3    |
| 17       | 7S.05     | Nut M12 .....                | 3    |
| 18       | 30121.A06 | Ram .....                    | 2    |
| 19       | 10470.A11 | Pin - Ram Pivot .....        | 2    |
| 20       | 11S.04D   | Screw M10 x 30 .....         | 2    |
| 21       | 12S.19    | Washer 10 I.D. ....          | 2    |
| 22       | 59S.03    | Nut - Nyloc M10 .....        | 2    |
| 23       | 10470.A12 | Pin - Ram Pivot .....        | 2    |
| 24       | 11S.04D   | Screw M10 x 30 .....         | 2    |
| 25       | 12S.19    | Washer 10 I.D. ....          | 2    |
| 26       | 59S.03    | Nut - Nyloc M10 .....        | 2    |
| 27       | 10464.A02 | Tee - Hydraulic .....        | 1    |
| 28       | 11S.03C   | Screw M8 x 25 .....          | 2    |
| 29       | 17S.04    | Washer - Spring 8 I.D. ....  | 2    |
| 30       | 7S.03     | Nut M8 .....                 | 2    |
| 31       | 31S.02U   | Hose (Tee to Rams) .....     | 4    |
| 32       | 10976.A03 | Label - "Wibau Winget" ..... | 2    |
| 33       | 10541.A14 | Label - Payload .....        | 1    |



TP 563

## SKIP - ROTATING

| Item No. | Part No.  | Description  | Qty |
|----------|-----------|--|-----|
| 1        | 40217.A01 | Skip - Narrow Mouth .....                          | 1   |
| 1        | 40217.A02 | Skip - Wide Mouth .....                            | 1   |
| 2        | 10536.A02 | Label - Warning (Free Running Loads) .....         | 1   |
| 3        | 40116.A03 | Frame - Skip .....                                 | 1   |
| 4        | 10640.A02 | Ring - Slewing .....                               | 1   |
| 5        | 8S.05D    | Bolt - Hex M12 x 40 .....                          | 8   |
| 6        | 12S.22    | Washer - Plain M12 .....                           | 16  |
| 7        | 59S.04    | Nut - Nyloc M12 .....                              | 8   |
| 8        | 30306.A02 | Frame - Mounting .....                             | 1   |
| 9        | 40296.A03 | Catch .....  | 1   |
| 10       | C.173C    | Spring - Return .....                              | 2   |
| 11       | 8S.05H    | Bolt - Hex. Hd. M12 x 60 .....                     | 1   |
| 12       | 7S.05     | Nut - Lock M12 .....                               | 2   |
| 13       | 11S.05D   | Screw - Hex. M12 x 30 .....                        | 4   |
| 14       | 12S.22    | Washer - Plain M12 .....                           | 8   |
| 15       | 59S.04    | Nut - Nyloc M12 .....                              | 4   |
| 16       | 105S.05   | Washer - Taper .....                               | 4   |
| 17       | 10522.A04 | Pin - Pivot .....                                  | 2   |
| 18       | 11S.04C   | Screw - Hex. Hd. M10 x 25 .....                    | 2   |
| 19       | 59S.03    | Nut - Nyloc M10 .....                              | 2   |
| 20       | 10919.A01 | Pin - Pivot .....                                  | 1   |
| 21       | 11S.04C   | Screw - Hex. Hd. M10 x 25 .....                    | 1   |
| 22       | 59S.03    | Nut - Nyloc M10 .....                              | 1   |
| 23       | 10720.A02 | Pin - Pivot .....                                  | 1   |
| 24       | 55S.07Q   | Pin - Tension .....                                | 1   |
| 25       | 30113.A04 | Ram - Hydraulic .....                              | 1   |
| 26       | 10976.A03 | Label - "Wibau Winget" .....                       | 2   |
| 27       | 187S.08JJ | Clamp - Hose .....                                 | 1   |
| 28       | 11S.02H   | Screw M6 x 50 .....                                | 1   |
| 29       | 7S.02     | Nut - Hex. Full M6 .....                           | 1   |
| 30       | 61S.02    | Nut - Binx M6 .....                                | 1   |
| 31       | 187S.08JJ | Clamp - Double Pipe (Fixed to Mounting Frame)..... | 1   |
| 32       | 11S.02H   | Screw - Hex. Hd. M6 x 50 .....                     | 1   |
| 33       | 59S.14    | Nut - M6 .....                                     | 1   |



TP 564

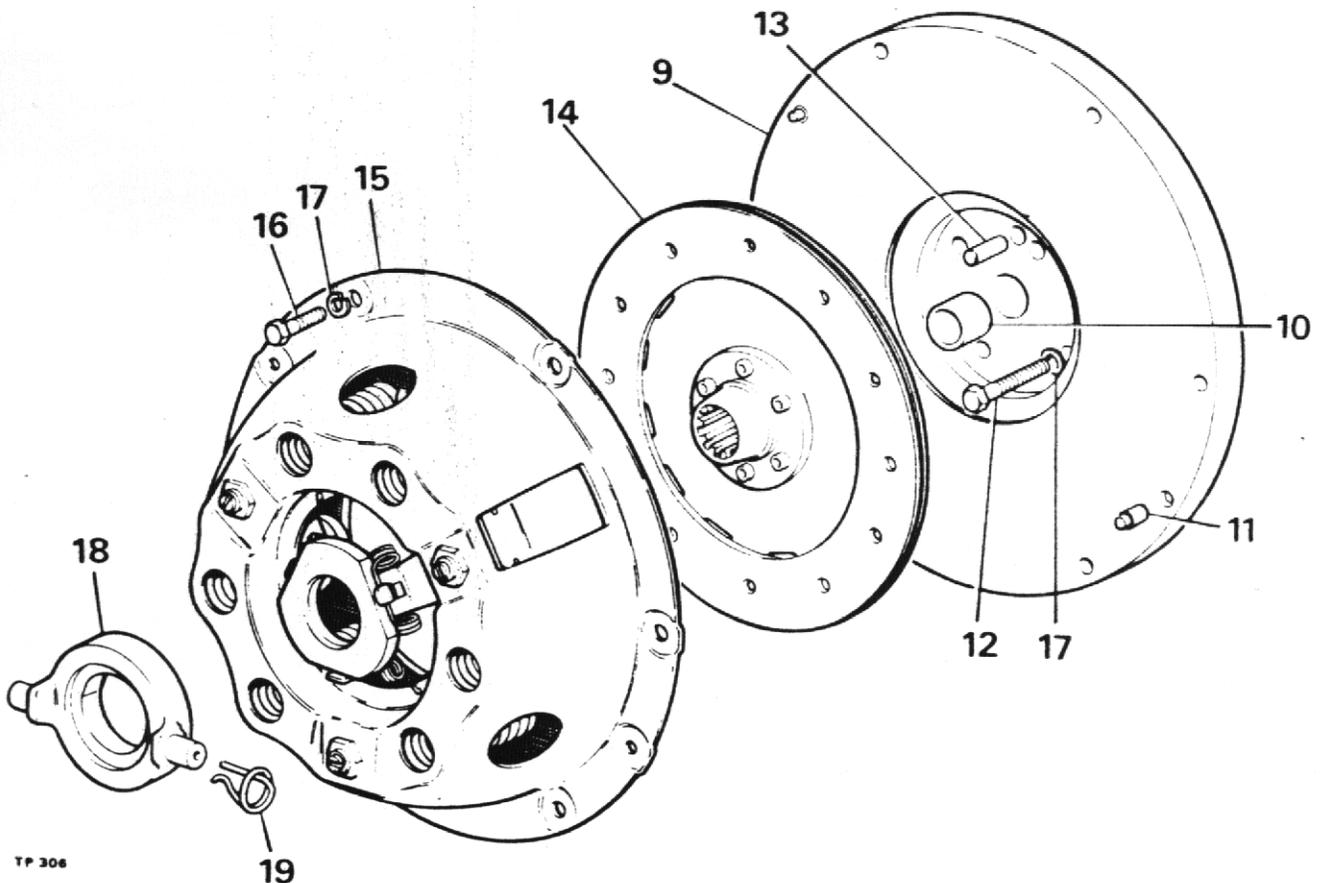
## SKIP - HIGH DISCHARGE

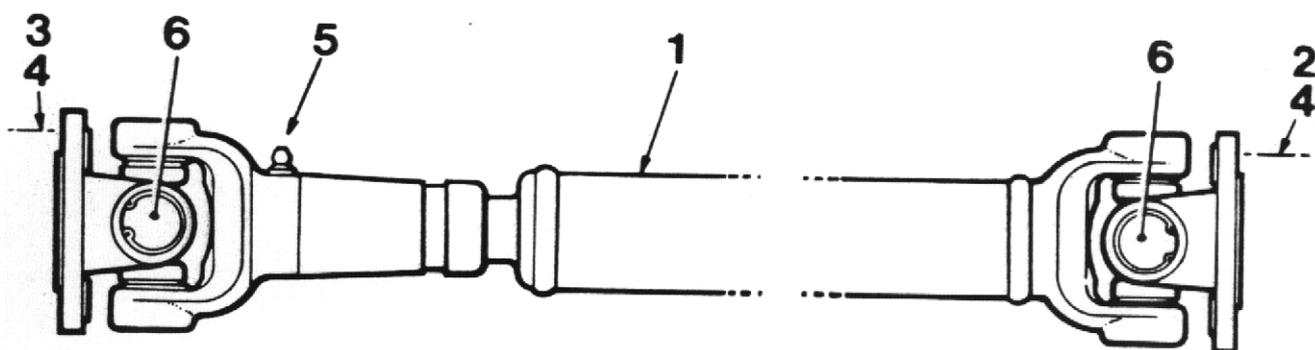
2B2000

| Item No. | Part No.  | Description                                | Qty. |
|----------|-----------|--|------|
| 1        | 40299.A01 | Skip .....                                 | 1    |
| 2        | 40252.A02 | Frame Assy. ....                           | 1    |
| 3        | 11S.05E   | Bolt .....(Frame fixing-front)             | 2    |
| 4        | 59S.04    | Nut ..... ( " " " )                        | 2    |
| 5        | 12S.22    | Washer - Plain ..... ( " " " )             | 2    |
| 6        | 11S.06G   | Bolt ..... (Frame fixing-Rear )            | 2    |
| 7        | 59S.11    | Nut ..... ( " " " )                        | 2    |
| 8        | 10S.05    | Washer - Plain ..... ( " " " )             | 2    |
| 9        | 10932.A01 | Pivot Pin - Skip .....                     | 2    |
| 10       | 11S.04C   | Bolt ..... (Pivot pin Retaining)           | 2    |
| 11       | 59S.03    | Nut ..... ( " " " )                        | 2    |
| 12       | 10S.04    | Washer ..... ( " " " )                     | 2    |
| 13       | 30302.A01 | Ram - Skip .....                           | 1    |
| 14       | 10919.A02 | Pin - Ram Pivot - Top .....                | 1    |
| 15       | 10919.A03 | Pin - Ram Pivot - Bottom .....             | 1    |
| 16       | 11S.03C   | Bolt ..... (Pivot pin Retaining)           | 2    |
| 17       | 7S.03     | Nut ..... ( " " " )                        | 2    |
| 18       | 17S.04    | Washer - Spring ..... ( " " " )            | 2    |
| 19       | 10536.A02 | Label - Warning "Free Running Loads" ..... | 1    |
| 20       | 10976.A03 | Label - "WIBAU" .....                      | 2    |

## ENGINE &amp; CLUTCH

| Item No. | Part No.    | Description  | Qty. |
|----------|-------------|--|------|
| 1        | PH2         | Engine - Petter .....  |      |
| 2        | ST2         | Engine - Lister .....  |      |
| 3        | 6S.05D      | Bolt $\frac{1}{2}$ " UNF x 1 $\frac{5}{8}$ " (Engine to Chassis) ... | 4    |
| 4        | 10S.04      | Washer $\frac{1}{2}$ " I/D .....                                     | 4    |
| 5        | 107S.16     | Nut $\frac{1}{2}$ " UNF Nyloc .....                                  | 4    |
| 6        | L259P       | Dog - Starter (Petter) .....   | 1    |
| 7        | L259L       | Dog - Starter (Lister) .....   | 1    |
| 8        | 185S.05D4   | Setscrew - Hex. Skt. 7/16" BSW x $\frac{1}{2}$ " .....               | 2    |
| 9        | 10580.A02   | Flywheel .....   | 1    |
| 10       | 10580.A0101 | Bush .....   | 1    |
| 11       | 10580.A0102 | Dowel .....  | 1    |
| 12       | 1S.02C      | Bolt 5/16" BSF x 1 $\frac{1}{2}$ " Wire Locked (Petter) ...          | 4    |
| 12       | 6S.02B      | Bolt 5/16" UNF x 1 $\frac{1}{2}$ " Wire Locked (Lister) ...          | 4    |
| 13       | C321        | Dowel .....  | 1    |
| 14       | 10598.A02   | Plate - Drive .....  | 1    |
| 15       | 10597.A01   | Cover .....  | 1    |
| 16       | 28S.02D     | Screw 5/16" UNF x $\frac{3}{4}$ " .....                              | 6    |
| 17       | 41S.04      | Washer 5/16" I/D .....   | 6    |
| 18       | 10579.A01   | Bearing - Release .....  | 1    |
| 19       | 10579.A0101 | Spring - Retaining .....   | 2    |
| 20       | 10987.A01   | Clutch Cover (Lister only)-(Not illustrated) ...                     | 1    |

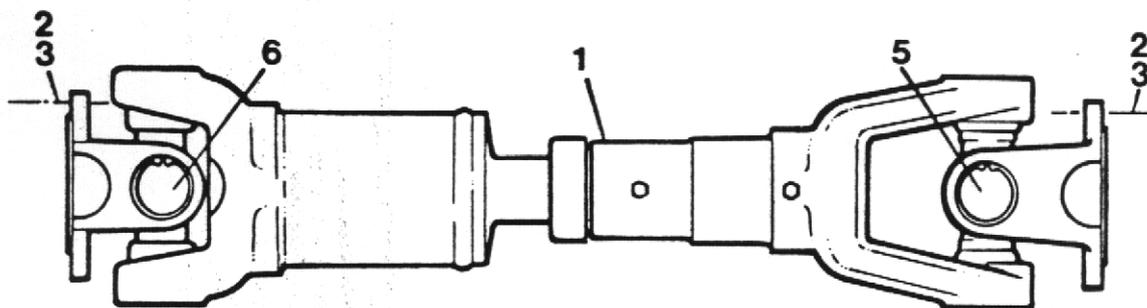




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PROPSHAFT

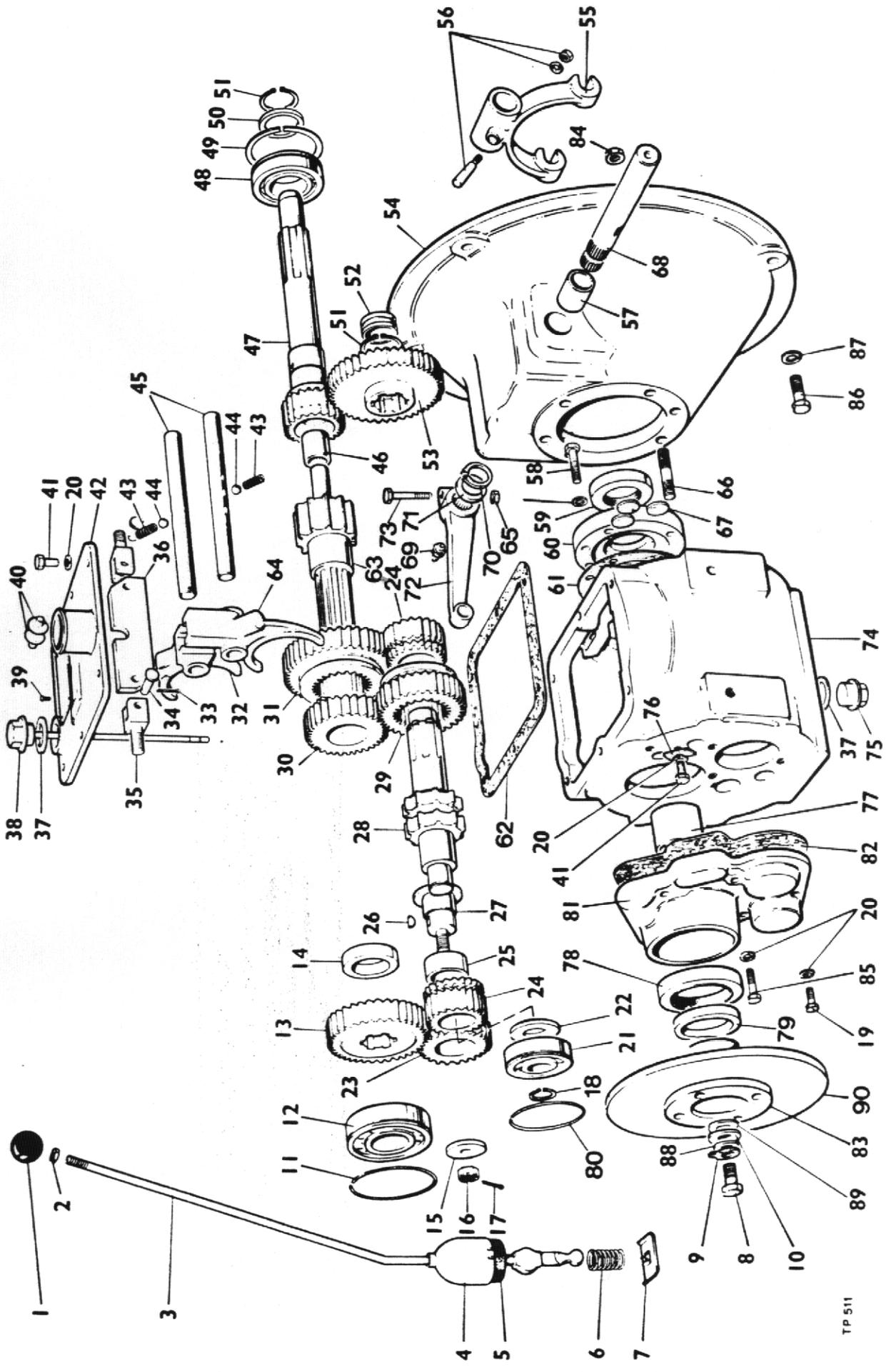
| Item No. | Part No.  | Description                                   | Qty. |
|----------|-----------|---|------|
| 1        | 30165.A05 | Propshaft - Newage Axle .....                 | 1    |
| 2        | 28S.04H   | Bolt 7/16" UNF x 1½" (Propshaft to Gearbox) . | 4    |
| 3        | ESE214    | Bolt 7/16" UNF x 1½" (Propshaft to Axle) .... | 4    |
| 4        | 107S.15   | Nut - Thin 7/16" UNF Nyloc .....              | 8    |
| 5        | 176S.01   | Cap - Grease Nipple .....                     | 4    |
| 6        | 10980.A01 | Kit - Repair .....                            | A/R  |



TP545

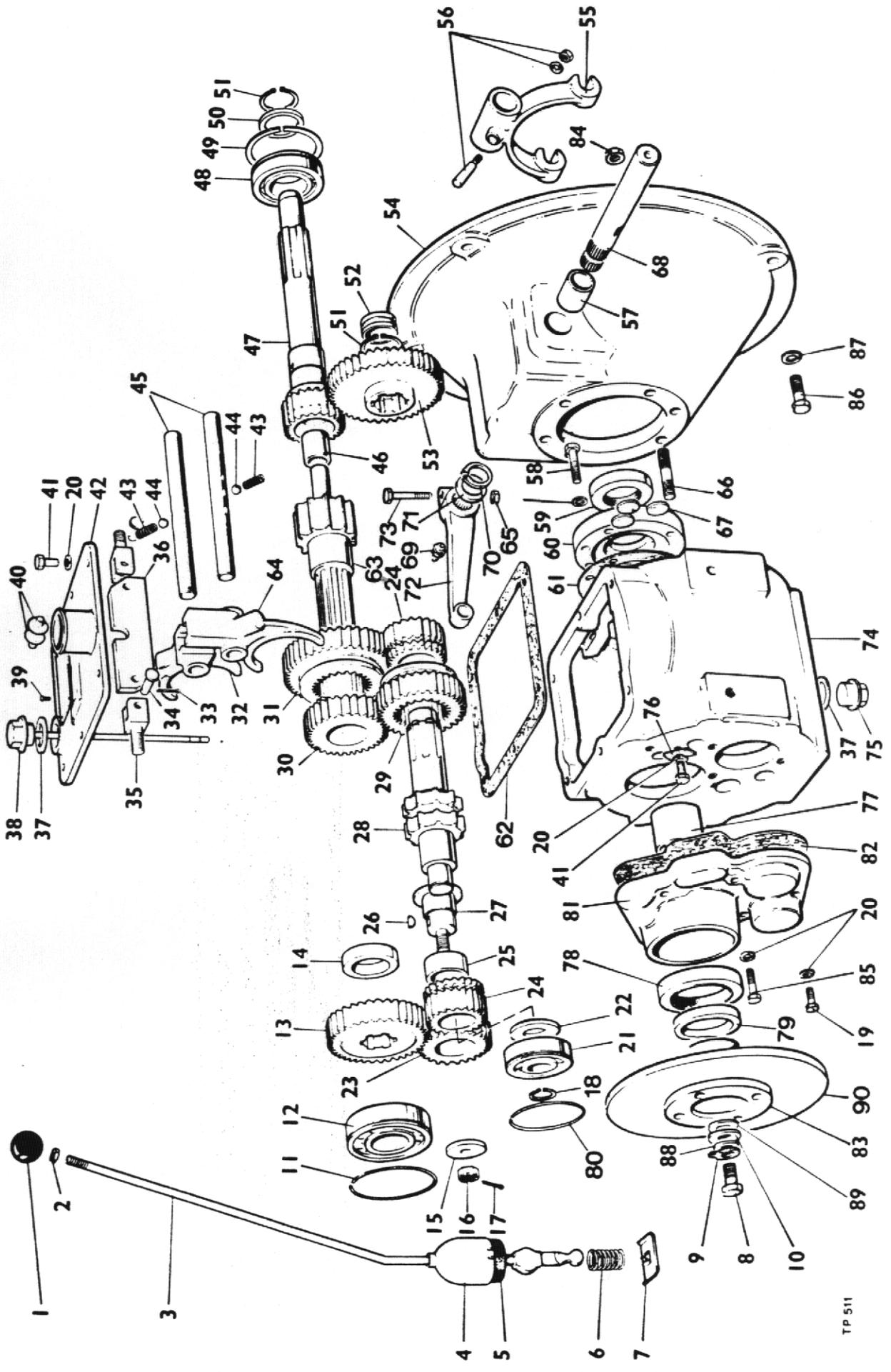
PROPSHAFT

| Item No. | Part No.  | Description                      | Qty. |
|----------|-----------|----------------------------------|------|
| 1        | 40114.A03 | Propshaft - Salisbury Axle ..... | 1    |
| 2        | ESE214    | Bolt 7/16" UNF x 1½" .....       | 8    |
| 3        | 107S.15   | Nut - Thin 7/16" UNF Nyloc ..... | 8    |
| 4        | 176S.01   | Cap - Grease Nipple .....        | 4    |
| 5        | 10307.A01 | Kit - Repair .....               | A/R  |
| 6        | 10207.A01 | Kit - Repair .....               | A/R  |



GEARBOX - NEWAGE AXLE

| Item No. | Part No.    | Description                         | Qty. |
|----------|-------------|-------------------------------------|------|
|          | 30101.A05   | Gearbox Complete .....              | 1    |
| 1        | 30101.A0201 | Knob - Gear Lever .....             | 1    |
| 2        | 2S.04       | Locknut - Gear Lever .....          | 1    |
| 3        | 20097A05    | Lever - Gear .....                  | 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 | Plate - Gear Lever Retaining .....  | 1    |
| 8        | 28S.05E     | Bolt .....                          | 1    |
| 9        | 30101.A0207 | Washer - Tab .....                  | 1    |
| 10       | 30101.A0208 | Washer .....                        | 1    |
| 11       | 30101.A0209 | Ring - Snap .....                   | 1    |
| 12       | 30101.A0210 | Bearing - Mainshaft Rear .....      | 1    |
| 13       | 30101.A0211 | Gear - Output .....                 | 1    |
| 14       | 30101.A0212 | Spacer - Output Gear .....          | 1    |
| 15       | 30101.A0213 | Washer - Reverse Pinion Shaft ..... | 1    |
| 16       | 30101.A0214 | Nut - Reverse Spindle .....         | 1    |
| 17       | 44S.02C     | Pin - Split .....                   | 1    |
| 18       | 30101.A0215 | Circlip .....                       | 1    |
| 19       | 28S.01D     | Bolt .....                          | 3    |
| 20       | 13S.02      | Washer - Spring .....               | 17   |
| 21       | 30101.A0216 | Bearing - Layshaft .....            | 1    |
| 22       | 30101.A0217 | Spacer - Bearing .....              | 1    |
| 23       | 30101.A0218 | Pinion - Reverse .....              | 2    |
| 24       | 30101.A0219 | Gear - Reverse Speed .....          | 2    |
| 25       | 30101.A0220 | Bush - Reverse Pinion .....         | 1    |
| 26       | 30101.A0221 | Key - Reverse Pinion Shaft .....    | 1    |
| 27       | 30101.A0222 | Shaft - Reverse Pinion .....        | 1    |
| 28       | 30101.A0223 | Layshaft .....                      | 1    |
| 29       | 30101.A0224 | Gear - 2nd. Speed Sliding .....     | 1    |
| 30       | 30101.A0225 | Gear - Second Speed .....           | 1    |
| 31       | 30101.A0226 | Gear - 1st. Speed .....             | 1    |
| 32       | 30101.A0227 | Fork - 2nd. and 3rd Selector .....  | 1    |
| 33       | 44S.01C     | Pin - Split Interlock .....         | 2    |
| 34       | 30101.A0228 | Pin - Clevis Interlock .....        | 2    |
| 35       | 30101.A0229 | Interlock - Stud .....              | 2    |
| 36       | 30101.A0230 | Plate - Interlock .....             | 1    |
| 37       | 30101.A0231 | Washer - Sealing .....              | 2    |
| 38       | 30101.A0232 | Dipstick .....                      | 1    |
| 39       | 30101.A0233 | Screw - Drive .....                 | 4    |
| 40       | 30101.A0234 | Pad - Gear Lever .....              | 2    |
| 41       | 28S.01C     | Bolt .....                          | 7    |
| 42       | 30101.A0235 | Cover - Top .....                   | 1    |
| 43       | 30097.A0185 | Spring - Detent .....               | 2    |
| 44       | 30101.A0236 | Ball - Detent .....                 | 2    |
| 45       | 30101.A0237 | Shaft - Selector .....              | 2    |
| 46       | 30101.A0238 | Primary Shaft - Bearing .....       | 1    |
| 47       | 30101.A0239 | Shaft - Primary .....               | 1    |
| 48       | 30101.A0240 | Bearing - Input .....               | 1    |
| 49       | 30101.A0241 | Ring - Snap .....                   | 1    |
| 50       | 30101.A0242 | Spacer - Bearing .....              | 1    |
| 51       | 30101.A0243 | Circlip .....                       | 2    |
| 52       | 30101.A0244 | Bush - Layshaft .....               | 1    |
| 53       | 30101.A0245 | Gear - 1st. Reduction .....         | 1    |



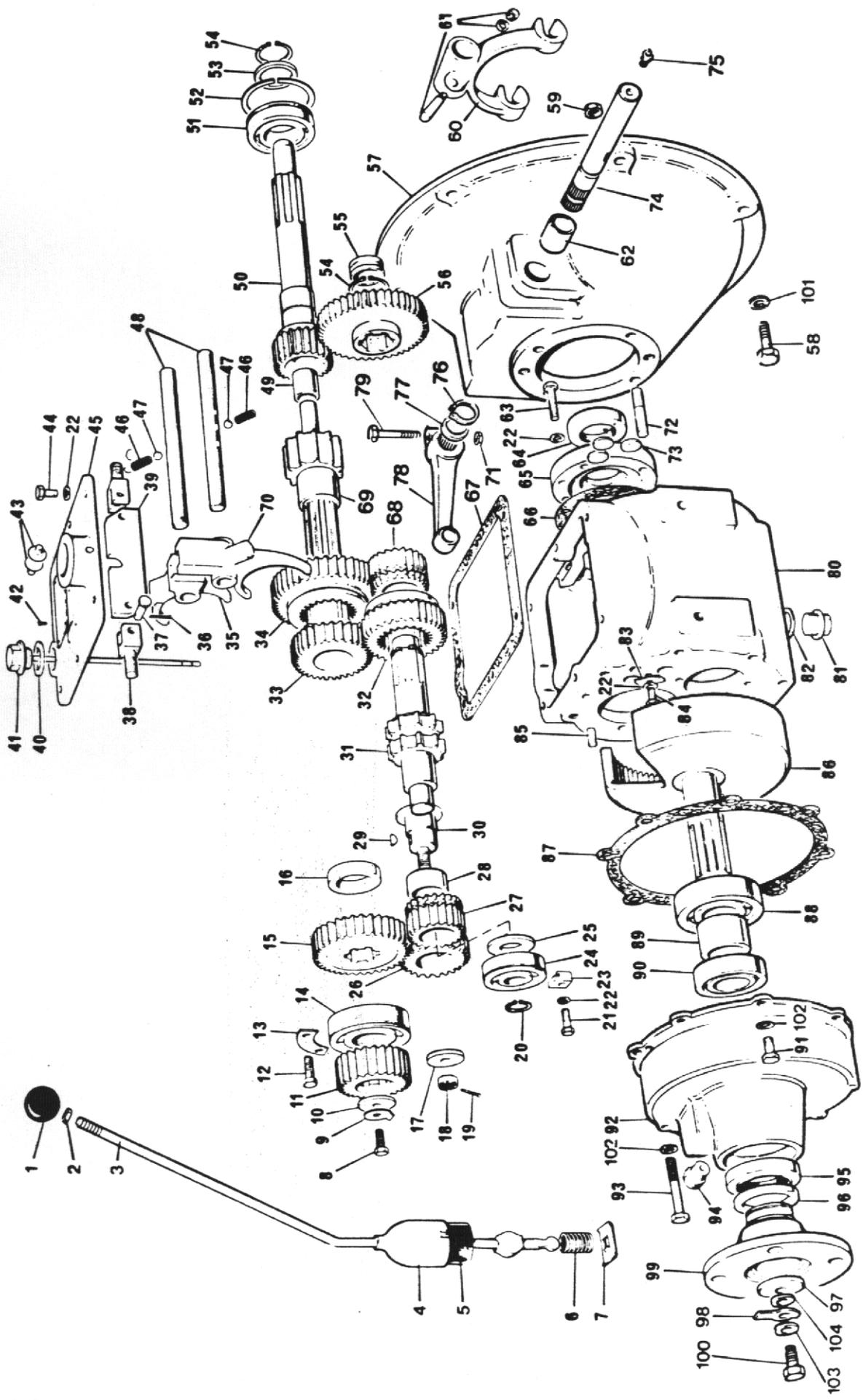
GEARBOX (Cont'd)

| Item No. | Part No.    | Description                            | Qty. |
|----------|-------------|--|------|
| 54       | 30101.A0246 | Housing - Clutch .....                 | 1    |
| 55       | 30097.A0110 | Fork - Clutch Release .....            | 1    |
| 56       | 30097.A0111 | Cotter, Nut and Washer S/A .....       | 1    |
| 57       | 30097.A0114 | Bush - Cross Shaft .....               | 2    |
| 58       | 6S.01A      | Bolt - Front Cover .....               | 4    |
| 59       | 30101.A0247 | Oil Seal - Input .....                 | 1    |
| 60       | 30101.A0248 | Cover - Front .....                    | 1    |
| 61       | 30101.A0249 | Gasket - Front Cover .....             | 1    |
| 62       | 30101.A0250 | Gasket - Top Cover .....               | 1    |
| 63       | 30101.A0251 | Mainshaft .....                        | 1    |
| 64       | 30101.A0252 | Fork - 1st. and Reverse Selector ..... | 1    |
| 65       | 9S.01       | Nut - Clutch Lever .....               | 1    |
| 66       | 30101.A0253 | Stud - Clutch Housing .....            | 6    |
| 67       | 30101.A0254 | Plug - Welch .....                     | 3    |
| 68       | 30101.A0255 | Shaft - Clutch Cross .....             | 1    |
| 69       | 131S.01     | Nipple - Grease .....                  | 2    |
| 70       | 30101.A0256 | Circlip .....                          | 1    |
| 71       | 30097.A0133 | Washer - Cross Shaft .....             | 1    |
| 72       | 30097.A0109 | Lever - Clutch Release .....           | 1    |
| 73       | 6S.01C      | Bolt - Clutch Lever .....              | 1    |
| 74       | 30101.A0258 | Gearcase .....                         | 1    |
| 75       | 30097.A0163 | Plug - Drain .....                     | 1    |
| 76       | 30101.A0259 | Strip - Selector Locking .....         | 1    |
| 77       | 30101.A0260 | Spacer .....                           | 1    |
| 78       | 30097.A0132 | Seal - Oil Rear .....                  | 1    |
| 79       | 30101.A0265 | Shield - Dust .....                    | 1    |
| 80       | 30101.A0261 | Ring - Snap .....                      | 1    |
| 81       | 30101.A0262 | Cover - Output .....                   | 1    |
| 82       | 30101.A0263 | Gasket - Output Cover .....            | 1    |
| 83       | 30218.A0203 | Coupling .....                         | 1    |
| 84       | 107S.03     | Nut (Clutch Housing) .....             | 6    |
| 85       | 6S.01       | Bolt .....                             | 2    |
| 86       | 3S.03E      | Bolt 3/8" BSF x 1" Long (Petter) ..... | 6    |
| 86       | 69S.03E     | Bolt 3/8" UNC x 1" Long (Lister) ..... | 8    |
| 87       | 41S.05      | Washer-Spring - 3/8" Dia. ....         | 6    |
| 88       | 30143.A0111 | Washer - Fibre .....                   | 1    |
| 89       | 30143.A0101 | Washer - Fibre .....                   | 1    |
| 90       | 10385.A03   | Disc - Handbrake .....                 | 1    |
| 91       | 176S.01     | Cap - Grease Nipple .....              | 2    |

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

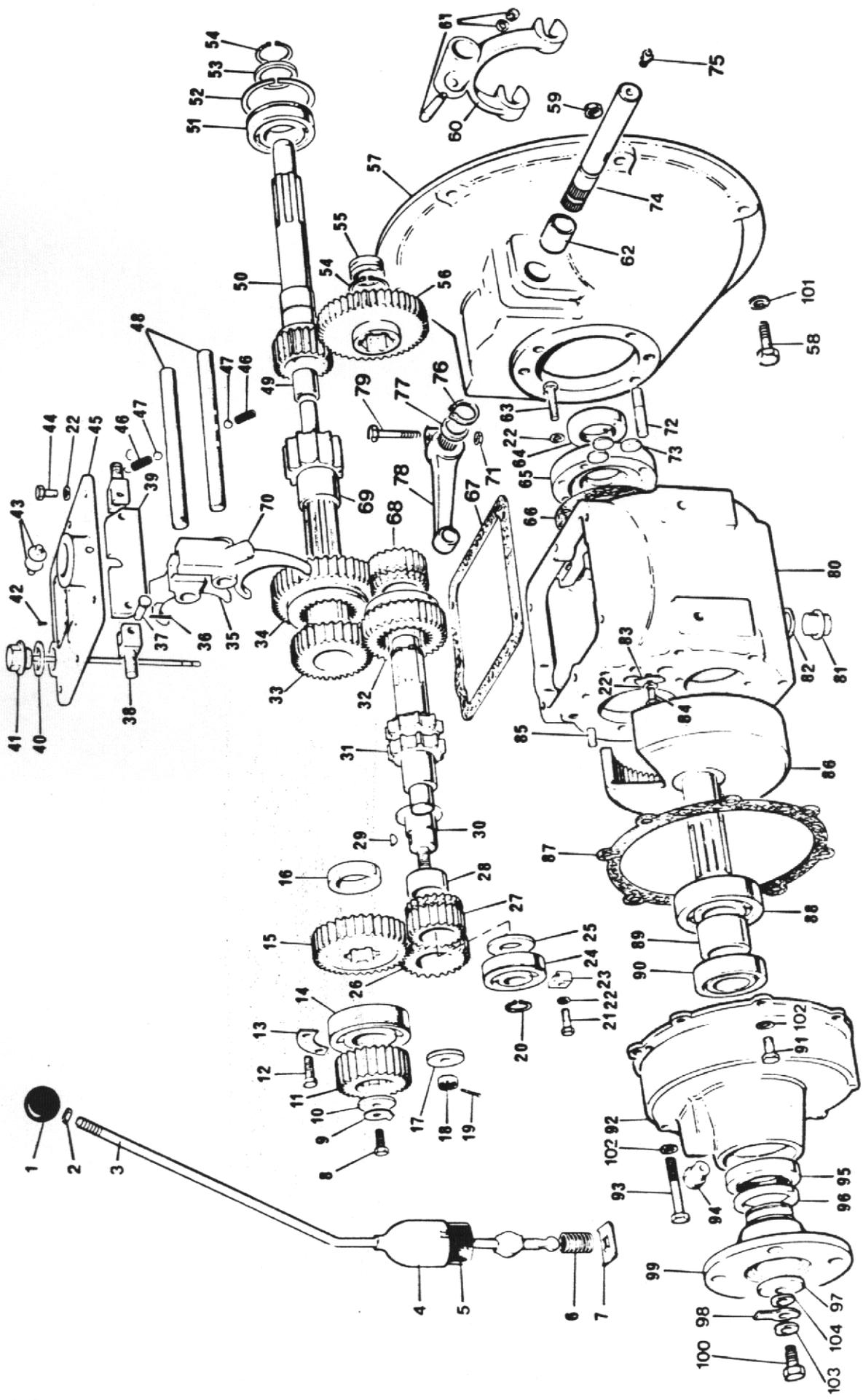
| Item | Old Part No. | Description        | New Part No. |
|------|--------------|--------------------|--------------|
| 38   | 30101.A0232  | Dipstick           | 30218.A0223  |
| 28   | 30101.A0223  | Layshaft           | 30101.A0266  |
| 52   | 30101.A0244  | Bearing - Layshaft | 30101.A0267  |

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.



GEARBOX - SALISBURY AXLE

| Item No. | Part No.    | Description   | Qty. |
|----------|-------------|---|------|
|          | 30190.A04   | Gearbox Complete .....                              | 1    |
| 1        | 30101.A0201 | Knob - Gear Lever .....                             | 1    |
| 2        | 95S.03      | Locknut - Gear Lever 3/8" UNF Half Nut .....        | 1    |
| 3        | 20097.A05   | Lever - Gear .....                                  | 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 | Plate - Retaining Gear Lever .....                  | 1    |
| 8        | 28S.03E     | Screw - Mainshaft 3/8" UNF x 1" Long .....          | 1    |
| 9        | 30190.A0101 | Lockwasher - Tab .....                              | 1    |
| 10       | 30190.A0102 | Washer - Reduction Pinion .....                     | 1    |
| 11       | 30190.A0103 | Pinion - Reduction .....                            | 1    |
| 12       | 28S.01B     | Screw - Bearing Retainer 1/2" UNF x 1/2" Long ..... | 2    |
| 13       | 30190.A0104 | Bearing - Retainer, Small .....                     | 1    |
| 14       | 30101.A0210 | Bearing - Mainshaft Rear .....                      | 1    |
| 15       | 30101.A0211 | Gear - Output .....                                 | 1    |
| 16       | 30101.A0212 | Spacer - Output Gear .....                          | 1    |
| 17       | 30101.A0213 | Washer - Reverse Pinion Shaft .....                 | 1    |
| 18       | 102S.04     | Nut - Reverse Spindle 7/16" UNF Castle .....        | 1    |
| 19       | 44S.02C     | Pin - Split 3/32" Dia., x 1" Long .....             | 1    |
| 20       | 30101.A0215 | Circlip .....                                       | 1    |
| 21       | 28S.01D     | Screw 1/2" UNF x 3/4" Long .....                    | 2    |
| 22       | 67S.01      | Washer - Shakeproof 1/2" Dia. ....                  | 12   |
| 23       | 30190.A0105 | Clip - Layshaft Bearing .....                       | 2    |
| 24       | 30101.A0216 | Bearing - Layshaft .....                            | 2    |
| 25       | 30101.A0217 | Spacer - Bearing .....                              | 1    |
| 26       | 30101.A0218 | Pinion - Reverse .....                              | 1    |
| 27       | 30101.A0219 | Gear - Reverse Speed .....                          | 2    |
| 28       | 30101.A0220 | Bush - Reverse Pinion .....                         | 1    |
| 29       | 30101.A0221 | Key - Reverse Pinion Shaft .....                    | 1    |
| 30       | 30101.A0222 | Shaft - Reverse Pinion .....                        | 1    |
| 31       | 30101.A0223 | Layshaft .....                                      | 1    |
| 32       | 30101.A0224 | Gear - Second Speed Sliding .....                   | 1    |
| 33       | 30101.A0225 | Gear - Second Speed .....                           | 1    |
| 34       | 30101.A0226 | Gear - First Speed .....                            | 1    |
| 35       | 30101.A0227 | Fork - Selector 2nd and 3rd .....                   | 1    |
| 36       | 44S.01C     | Pin - Split Interlock 1/16" Dia. x 1" Long .....    | 2    |
| 37       | 30101.A0228 | Pin - Clevis Interlock .....                        | 2    |
| 38       | 30101.A0229 | Stud, - Interlock .....                             | 2    |
| 39       | 30101.A0230 | Plate - Interlock .....                             | 1    |
| 40       | 42S.05      | Seal - Dipstick .....                               | 1    |
| 41       | 30101.A0232 | Dipstick .....                                      | 1    |
| 42       | 30101.A0233 | Screw - Drive .....                                 | 4    |
| 43       | 30101.A0234 | Pad - Gear Lever .....                              | 2    |
| 44       | 28S.01C     | Screw - Top Cover 1/2" UNF x 5/8" Long .....        | 6    |
| 45       | 30101.A0235 | Cover - Top .....                                   | 1    |
| 46       | 30097.A0185 | Spring - Detent .....                               | 2    |
| 47       | 30101.A0236 | Ball - Detent .....                                 | 2    |
| 48       | 30101.A0237 | Shaft - Selector .....                              | 2    |
| 49       | 30101.A0238 | Bearing - Primary Shaft .....                       | 1    |
| 50       | 30101.A0239 | Shaft - Primary .....                               | 1    |
| 51       | 30101.A0240 | Bearing - Input .....                               | 1    |
| 52       | 30101.A0241 | Ring - Snap .....                                   | 1    |
| 53       | 30101.A0242 | Spacer - Bearing .....                              | 1    |
| 54       | 30101.A0243 | Circlip .....                                       | 2    |



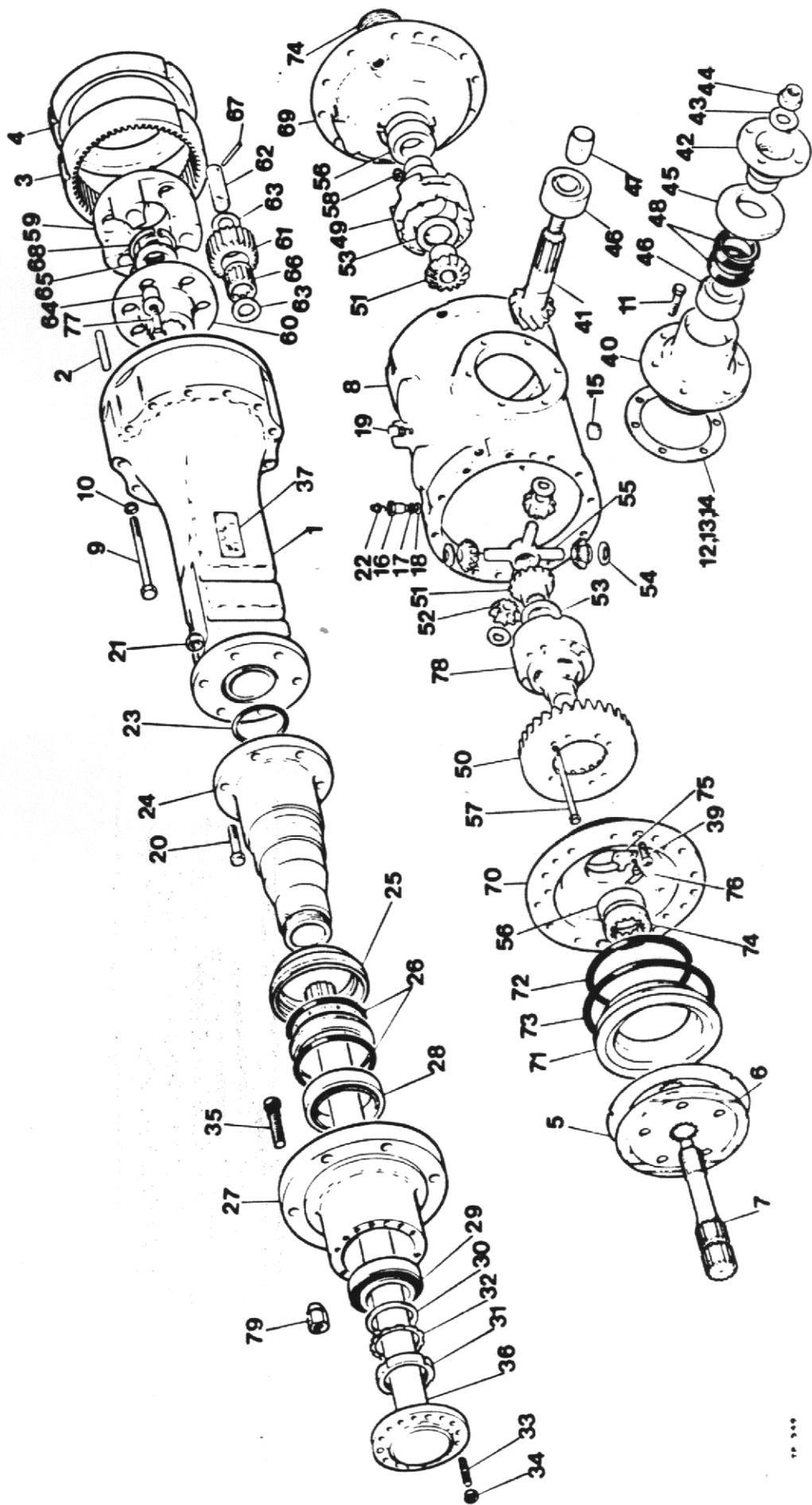
GEARBOX (Cont'd.)

| Item No. | Part No.    | Description  | Qty. |
|----------|-------------|--|------|
| 55       | 30101.A0244 | Bush - Layshaft .....  | 1    |
| 56       | 30101.A0245 | Gear - 1st. Reduction .....                                    | 1    |
| 57       | 30101.A0246 | Housing - Clutch .....   | 1    |
| 58       | 3S.03E      | Setscrew - Clutch Housing 3/8" BSF x 1" Long ..<br>(Petter) .. | 6    |
| 58A      | 69S.03E     | Setscrew - Clutch Housing 3/8" UNC x 1" Long ..<br>(Lister) .. | 6    |
| 59       | 30190.A0116 | Nut - Nyloc 3/8" UNF .....                                     | 6    |
| 60       | 30097.A0110 | Fork - Clutch Release .....                                    | 1    |
| 61       | 30097.A0111 | Cotter, Nut and Washer S/A .....                               | 1    |
| 62       | 30097.A0114 | Bush - Cross Shaft .....                                       | 2    |
| 63       | 6S.01B      | Bolt - Front Cover 1/2" UNF x 1 1/2" Long .....                | 4    |
| 64       | 30101.A0247 | Oil Seal - Input .....   | 1    |
| 65       | 30101.A0248 | Cover - Front .....  | 1    |
| 66       | 30101.A0249 | Joint - Front Cover .....                                      | 1    |
| 67       | 30101.A0250 | Joint - Top Cover .....  | 1    |
| 68       | 30101.A0219 | Gear - Reverse Speed .....                                     | 2    |
| 69       | 30190.A0106 | Mainshaft .....  | 1    |
| 70       | 30101.A0252 | Fork - Selector 1st. and Reverse .....                         | 1    |
| 71       | 9S.01       | Nut - Clutch Lever 1/2" UNF .....                              | 1    |
| 72       | 30101.A0253 | Stud - Clutch Housing .....                                    | 6    |
| 73       | 30101.A0254 | Disc - Sealing, Selector Shaft .....                           | 3    |
| 74       | 30101.A0255 | Shaft - Clutch Cross .....                                     | 1    |
| 75       | 131S.06     | Nipple - Grease .....  | 2    |
| 76       | 30101.A0256 | Circlip .....  | 1    |
| 77       | 30101.A0257 | Washer - Cross Shaft .....                                     | 1    |
| 78       | 30097.A0109 | Lever - Clutch Release .....                                   | 1    |
| 79       | 6S.01C      | Bolt - Clutch Lever 1/2" UNF x 1 1/2" Long .....               | 1    |
| 80       | 30190.A0107 | Casing .....   | 1    |
| 81       | 30190.A0108 | Plug - Drain .....   | 1    |
| 82       | 42S.05      | Seal - Drain Plug .....  | 1    |
| 83       | 30101.A0259 | Strip - Selector Locking .....                                 | 1    |
| 84       | 28S.01C     | Setscrew 1/2" UNF x 5/8" Long .....                            | 2    |
| 85       | 30097.A0155 | Dowel .....  | 2    |
| 86       | 30190.A0110 | Gear - Internal .....  | 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. Head 5/16" UNF x 1/2" Long .....                  | 4    |
| 92       | 30190.A0114 | Housing - Reduction .....                                      | 1    |
| 93       | 6S.02J      | Bolt - Hex. Head 5/16" UNF x 2 1/2" Long .....                 | 4    |
| 94       | 30097.A0171 | Breather .....   | 1    |
| 95       | 30097.A0132 | Oil Seal, Rear .....   | 1    |
| 96       | 30101.A0265 | Shield - Dust .....  | 1    |
| 97       | 30101.A0208 | Washer - Coupling .....  | 1    |
| 98       | 30101.A0207 | Washer - Lock .....  | 1    |
| 99       | 30218.A0203 | Coupling .....   | 1    |
| 100      | 28S.05E     | Screw, Coupling 1/2" UNF x 1" Long .....                       | 1    |
| 101      | 41S.05      | Washer - Spring 3/8" .....                                     | 6    |
| 102      | 41S.04      | Washer - Spring 5/16" .....                                    | 8    |
| 103      | 30143.A0111 | Washer - Fibre .....   | 1    |
| 104      | 30143.A0101 | Washer - Fibre .....   | 1    |
| 105      | 176S.01     | Cap - Grease Nipple (Not Illustrated) .....                    | 2    |

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

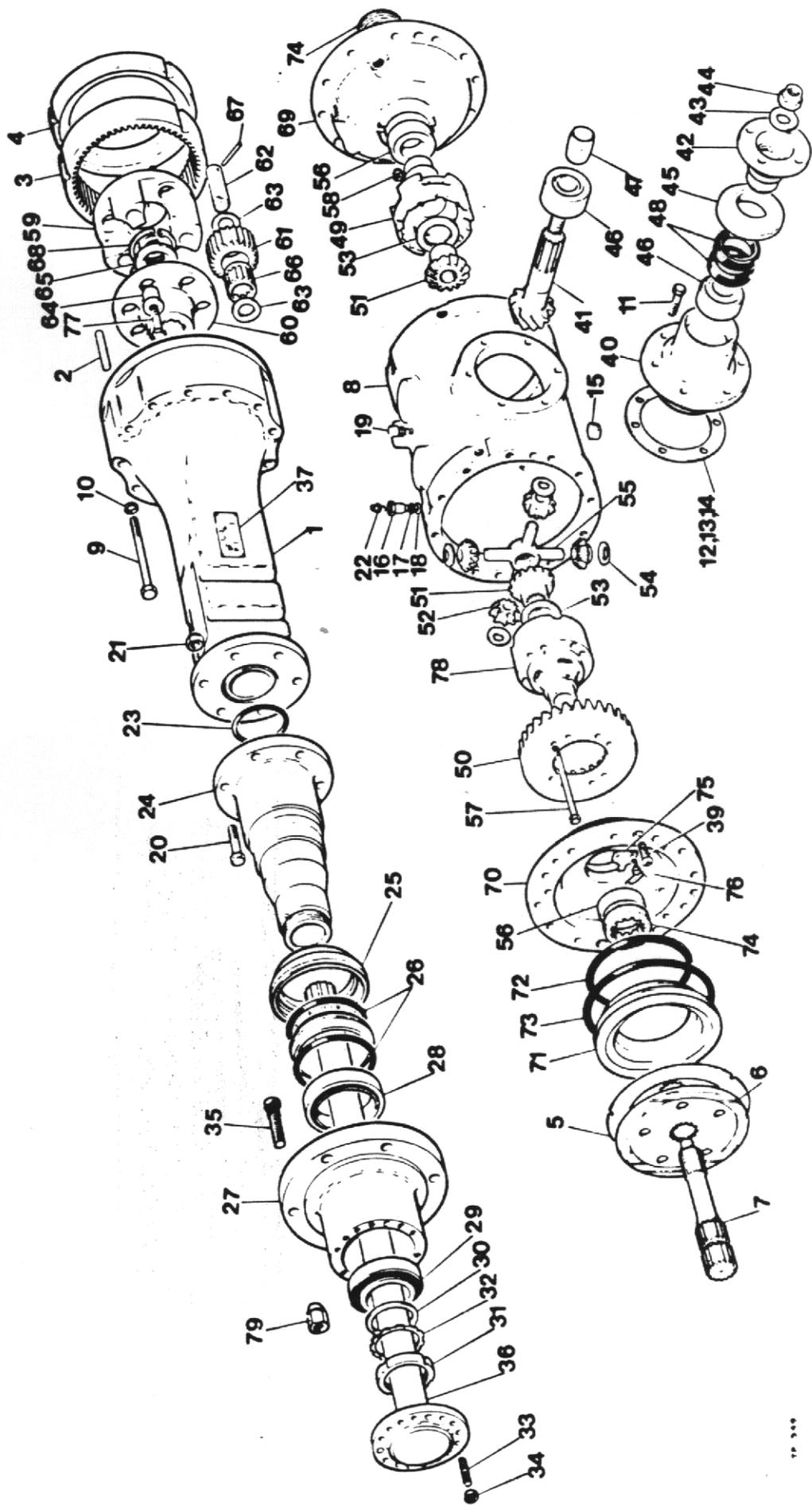
| Item | Old Part No. | Description        | New Part No. |
|------|--------------|--------------------|--------------|
| 41   | 30101.A0232  | Dipstick           | 30218.A0223  |
| 31   | 30101.A0223  | Layshaft           | 30101.A0266  |
| 55   | 30101.A0244  | Bearing - Layshaft | 30101.A0267  |

The layshaft will only be supplied complete with bearing as a replacement under part no. 30101.A0268 and will be totally interchangeable with



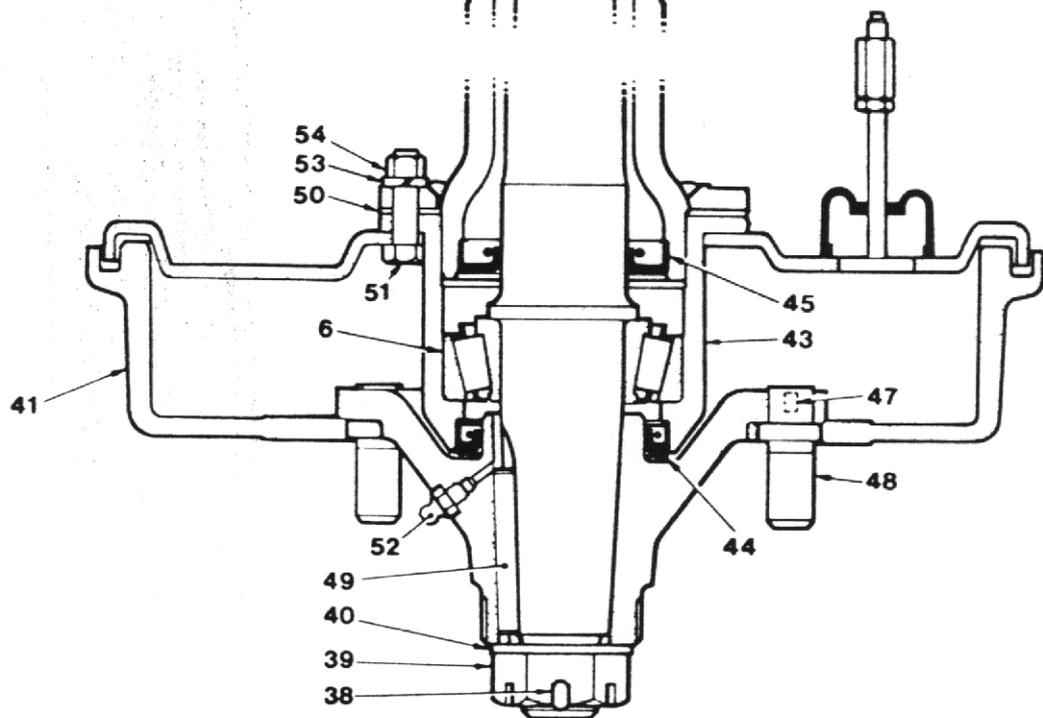
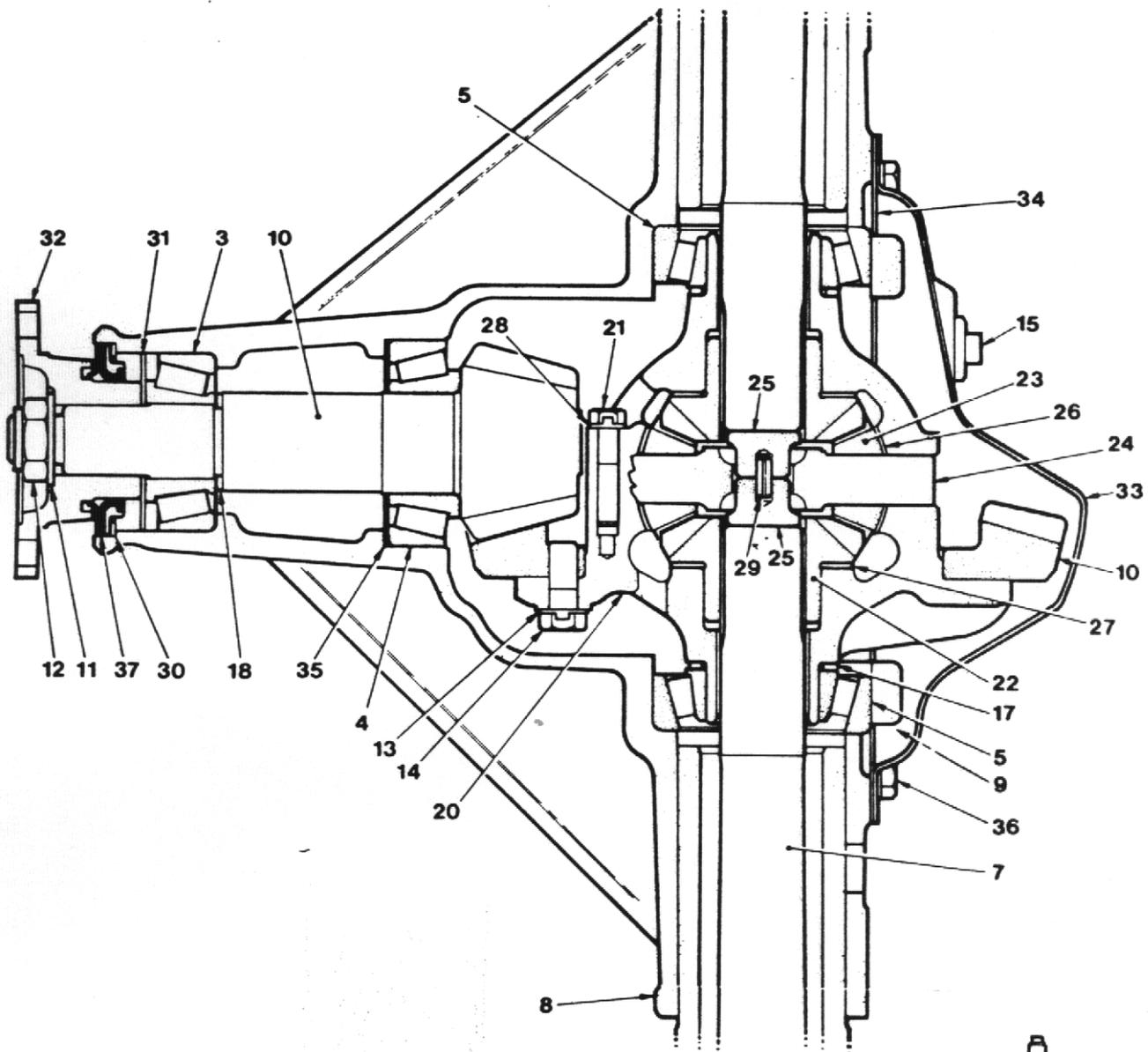
## DRIVE AXLE

| Item No. | Part No.    | Description                            | Qty<br>Per Axle |
|----------|-------------|--|-----------------|
|          | 30082.A02   | Axle complete .....                    |                 |
| 1        | 30082.A0201 | Axle Arm .....                         | 2               |
| 2        | 30082.A0202 | Pin .....                              | 6               |
| 3        | 30082.A0203 | Annulus .....                          | 2               |
| 4        | 30082.A0204 | Brake Spacer Plate .....               | 2               |
| 5        | 30082.A0205 | Brake Fixed Plate .....                | 2               |
| 6        | 30082.A0206 | Oil Immersed Brake Disc .....          | 2               |
| 7        | 30082.A0207 | Sun Gear .....                         | 2               |
| 8        | 30082.A0208 | Main Axle Casing .....                 | 1               |
| 9        | 4S.04Q      | Bolt .....                             | 24              |
| 10       | 17S.04      | Spring Washer .....                    | 24              |
| 11       | 11S.04      | Hex. Hd. Screw .....                   | 6               |
| 12       | 30082.A0209 | Pinion Adjusting Shim .....            | A/R             |
| 13       | 30082.A0210 | Pinion Adjusting Shim .....            | A/R             |
| 14       | 30082.A0211 | Pinion Adjusting Shim .....            | A/R             |
| 15       | 30082.A0212 | Hex. Socket BSP TR Plug .....          | 2               |
| 16       | 30082.A0213 | Brake Pipe Adaptor .....               | 2               |
| 17       | 49S.02      | 'O' Ring .....                         | 2               |
| 18       | 30082.A0269 | Dowty Washer .....                     | 2               |
| 19       | 30082.A0214 | Relief Valve .....                     | 1               |
| 20       | 8S.05E      | Bolt .....                             | 12              |
| 21       | 59S.04      | Nyloc Nut .....                        | 12              |
| 22       | 30082.A0215 | Brake Bleed Valve .....                | 2               |
| 23       | 30082.A0268 | 'O' Ring .....                         | 2               |
| 24       | 30082.A0216 | Stub Axle .....                        | 2               |
| 25       | 30082.A0217 | Oil Seal Housing .....                 | 2               |
| 26       | 30082.A0218 | Hub Oil Seal .....                     | 2               |
| 27       | 30082.A0219 | Hub .....                              | 2               |
| 28       | 30082.A0220 | Hub Inner Bearing .....                | 2               |
| 29       | 30082.A0221 | Hub Outer Bearing .....                | 2               |
| 30       | 30082.A0222 | Hub Bearing Spacer .....               | 2               |
| 31       | 30082.A0223 | Bearing Lock Nut .....                 | 2               |
| 32       | 30082.A0224 | Tab Washer .....                       | 2               |
| 33       | 30082.A0267 | Stud .....                             | 16              |
| 34       | 59S.04      | Nyloc Nut .....                        | 16              |
| 35       | 30082.A0225 | Wheel Stud .....                       | 12              |
| 36       | 30082.A0226 | Axle Shaft .....                       | 2               |
| 37       | 30082.A0227 | Label .....                            | 1               |
| 38       | 15S.01A     | Hammer Drive Screw .....               | 4               |
| 39       | 30082.A0266 | Hex. Socket Button Hd. Screw .....     | 4               |
| 40       | 30082.A0228 | Input Pinion Cartridge .....           | 1               |
| 41       | 30082.A0270 | Spiral Bevel Wheel & Pinion Assy. .... | 1               |
| 42       | 30082.A0230 | Drive Flange .....                     | 1               |
| 43       | 30082.A0231 | Drive Flange Washer .....              | 1               |
| 44       | 30082.A0232 | Drive Flange Nut .....                 | 1               |
| 45       | 30082.A0233 | Oil Seal Cover .....                   | 1               |
| 46       | 30082.A0234 | Pinion Bearing .....                   | 2               |
| 47       | 30082.A0235 | Pinion Bearing Spacer .....            | 1               |
| 48       | 30082.A0236 | Pinion Oil Seal .....                  | 2               |
| 49       | 30082.A0237 | Diff. Case Process Assembly R.H. ....  | 1               |
| 51       | 30082.A0239 | Diff. Wheel .....                      | 2               |
| 52       | 30082.A0240 | Diff. Pinion .....                     | 4               |
| 53       | 30082.A0241 | Diff. Wheel Thrust Washer .....        | 2               |
| 54       | 30082.A0242 | Diff. Pinion Thrust Washer .....       | 4               |
| 55       | 30082.A0243 | Diff. Spider .....                     | 1               |
| 56       | 30082.A0244 | Diff. Bearing .....                    | 2               |
| 57       | 8S.04Q      | Bolts .....                            | 8               |
| 58       | 59S.03      | Nyloc Nuts .....                       | 8               |
| 59       | 30082.A0245 | Planet Carrier .....                   | 2               |



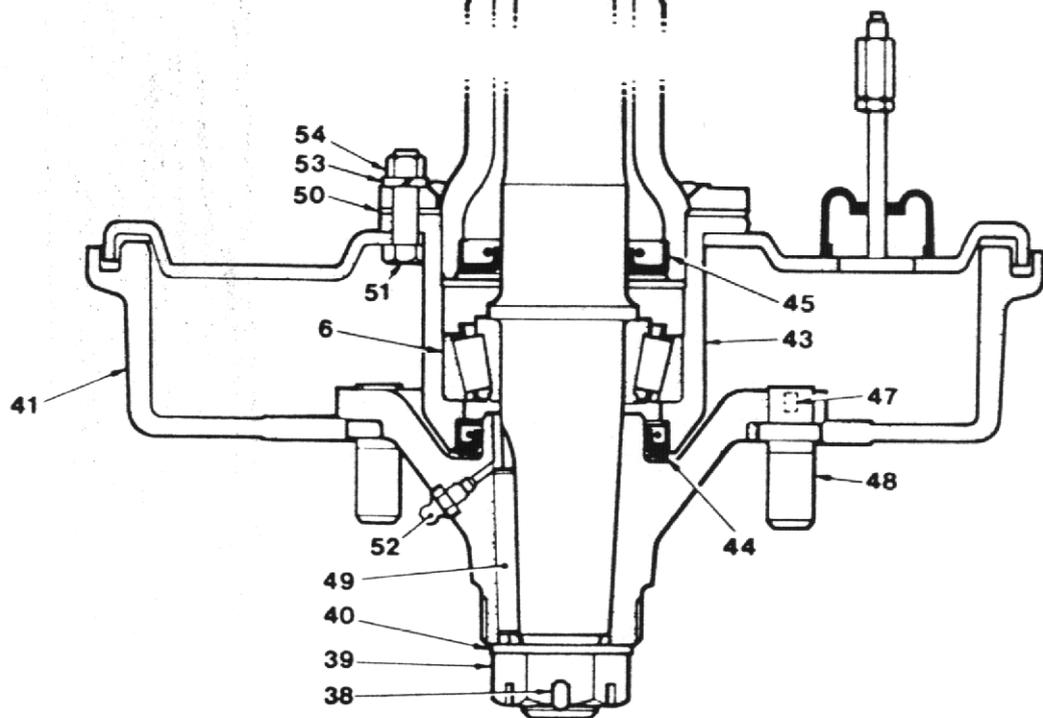
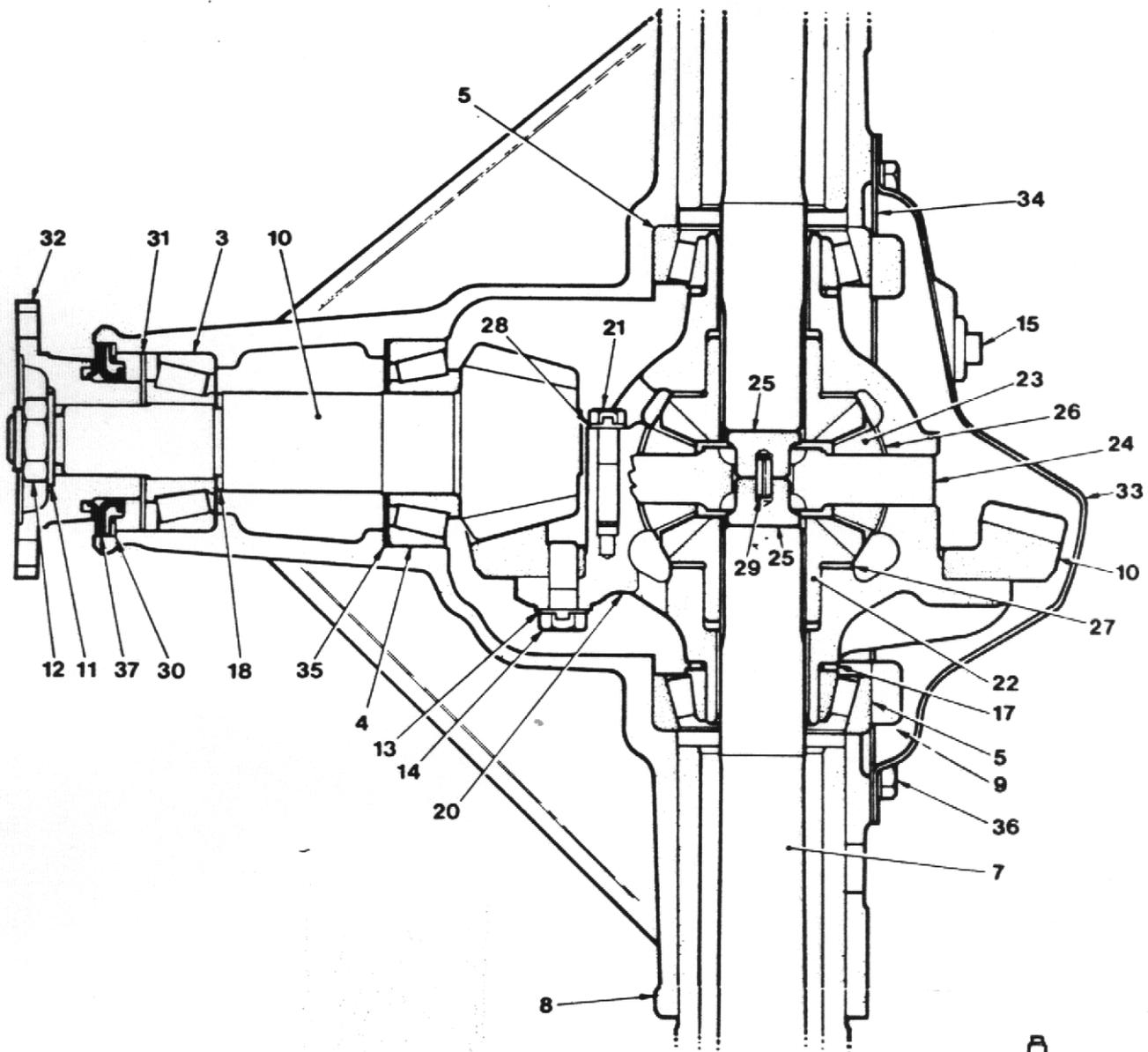
DRIVE AXLE (Cont'd)

| Item No. | Part No.    | Description   | Qty<br>Per Axle |
|----------|-------------|---|-----------------|
| 60       | 30082.A0246 | Carrier Drive .....                                 | 2               |
| 61       | 30082.A0247 | Planet Gear .....                                   | 6               |
| 62       | 30082.A0248 | Planet Pin .....                                    | 6               |
| 63       | 30082.A0249 | Planet Thrust Washer .....                          | 12              |
| 64       | 30082.A0250 | Planet Carrier Bush .....                           | 6               |
| 65       | 30082.A0251 | Axle Shaft Thrust Spacer .....                      | 2               |
| 66       | 30082.A0252 | Planet Cage Roller .....                            | 6               |
| 67       | 30082.A0253 | Spring Dowel .....                                  | 6               |
| 68       | 30082.A0265 | Circlip .....                                       | 2               |
| 69       | 30100.A0208 | Brake Cylinder R.H. ....                            | 1               |
| 70       | 30100.A0209 | Brake Cylinder L.H. ....                            | 1               |
| 71       | 30100.A0210 | Brake Piston .....                                  | 2               |
| 72       | 30100.A0211 | Piston Oil Seal-Set .....                           | 2               |
| 73       | 30082.A0259 | Bearing Adjusting Nut .....                         | 2               |
| 74       | 30082.A0260 | Adjusting Nut Lock Plate .....                      | 2               |
| 75       | 30082.A0261 | Screw Lock Plate .....                              | 4               |
| 76       | 30082.A0262 | Planet Carrier Bolt .....                           | 6               |
| 77       | 30082.A0263 | Diff. Case L.H. ....                                | 1               |
| 78       | 10668.A02   | Wheel Nut .....                                     | 12              |
| 79       | 40298.A0107 | Plate - Clamp (Not illustrated) .....               | 2               |
| 80       | 6S.06AA     | Bolt 5/8" UNF x 7½" .....                           | 4               |
| 81       | 107S.17     | Nut - Nyloc 5/8" UNF .....                          | 4               |
| 82       | 6S.05AA     | Bolt ½" UNF x 7½" .....                             | 4               |
| 83       | 107S.16     | Nut - Nyloc ½" UNF .....                            | 4               |
| 84       | DM.196      | Label - Recommended Lubrication (Not illustrated).. | 1               |



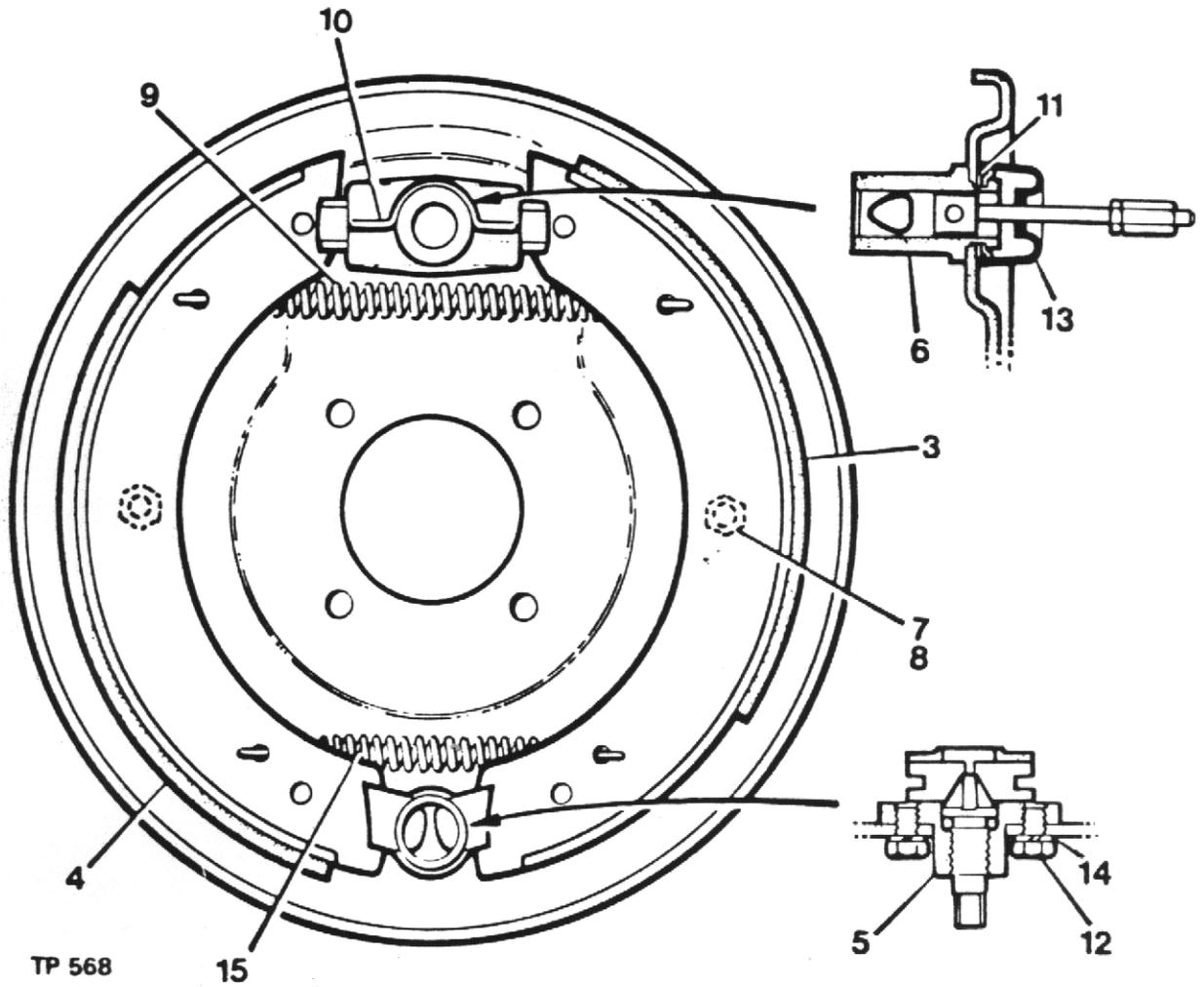
SALISBURY AXLE (30309.A01)

| Item No. | Part No.    | Description   | Qty |
|----------|-------------|---|-----|
| 1        |             | Brake Assembly L.H. (See Separate illustration) ..... |     |
| 2        |             | Brake Assembly R.H. (See Separate illustration) ..... |     |
| 3        | 30166.A0110 | Bearing - Service .....                               | 1   |
| 4        | 30166.A0111 | Bearing - Service .....                               | 1   |
| 5        | 30166.A0112 | Bearing - Service .....                               | 2   |
| 6        | 30309.A0101 | Bearing - Service .....                               | 2   |
| 7        | 30309.A0102 | Shaft - Axle .....                                    | 2   |
| 8        | 30309.A0103 | Carrier & Tube (includ. item 9)                       | 1   |
| 9        | 30166.A0103 | Bolt .....  | 4   |
| 10       | 30309.A0104 | Gear - Service Assy. (including items 11 - 14) .....  | 1   |
| 11       | 30166.A0105 | Washer .....  | 2   |
| 12       | 30166.A0106 | Locknut .....   | 2   |
| 13       | 30166.A0107 | Lockstrap .....                                       | 6   |
| 14       | 30166.A0108 | Bolt - Drive Gear .....                               | 12  |
| 15       | 30166.A0109 | Plug - Filler Level .....                             | 3   |
| 16       | 30166.A0105 | Washer .....  | 1   |
| 17       | 30166.A0113 | Shim .028 .....                                       | A/R |
| 17       | 30166.A0114 | Shim .030 .....                                       | A/R |
| 17       | 30166.A0115 | Shim .031 .....                                       | A/R |
| 17       | 30166.A0116 | Shim .032 .....                                       | A/R |
| 17       | 30166.A0117 | Shim .033 .....                                       | A/R |
| 17       | 30166.A0118 | Shim .034 .....                                       | A/R |
| 17       | 30166.A0119 | Shim .035 .....                                       | A/R |
| 17       | 30166.A0120 | Shim .036 .....                                       | A/R |
| 17       | 30166.A0121 | Shim .037 .....                                       | A/R |
| 17       | 30166.A0122 | Shim .038 .....                                       | A/R |
| 17       | 30166.A0123 | Shim .039 .....                                       | A/R |
| 17       | 30166.A0124 | Shim .040 .....                                       | A/R |
| 17       | 30166.A0125 | Shim .045 .....                                       | A/R |
| 18       | 30166.A0126 | Shim .030 .....                                       | A/R |
| 18       | 30166.A0127 | Shim .031 .....                                       | A/R |
| 18       | 30166.A0128 | Shim .032 .....                                       | A/R |
| 18       | 30166.A0129 | Shim .033 .....                                       | A/R |
| 18       | 30166.A0130 | Shim .034 .....                                       | A/R |
| 18       | 30166.A0131 | Shim .035 .....                                       | A/R |
| 18       | 30166.A0132 | Shim .036 .....                                       | A/R |
| 18       | 30166.A0133 | Shim .037 .....                                       | A/R |
| 18       | 30166.A0134 | Shim .038 .....                                       | A/R |
| 18       | 30166.A0135 | Shim .039 .....                                       | A/R |
| 18       | 30166.A0136 | Shim .040 .....                                       | A/R |
| 19       | 30242.A0134 | Case - Diff (Incl. items 20-29)                       | 1   |
| 20       | 30242.A0135 | Case - Diff Sub Assembly .....                        | 1   |
| 21       | 30242.A0136 | Bolt .....  | 8   |
| 22       | 30242.A0137 | Gear - Side .....                                     | 2   |
| 23       | 30242.A0138 | Pinion Mate .....                                     | 4   |
| 24       | 30242.A0139 | Shaft - Cross .....                                   | 1   |
| 25       | 30242.A0140 | Spacer - Split .....                                  | 2   |
| 26       | 30242.A0141 | Washer - Thrust .....                                 | 4   |



| Item No. | Part No.    | Description  | Qty |
|----------|-------------|--|-----|
| 27       | 30242.A0142 | Washer - Thrust .....                              | 2   |
| 28       | 30242.A0143 | Strap - Lock .....                                 | 4   |
| 29       | 30242.A0144 | Pin - Roll .....                                   | 1   |
| 30       | 30166.A0146 | Gasket - Oil Seal .....                            | 1   |
| 31       | 30166.A0147 | Slinger - Pinion Oil.....                          | 1   |
| 32       | 30309.A0114 | Flange - Companion .....                           | 1   |
| 33       | 30242.A0145 | Cover - Gear Carrier .....                         | 1   |
| 34       | 30166.A0149 | Gasket - Carrier Cover.....                        | 1   |
| 35       | 30166.A0150 | Shim .003 .....                                    | A/R |
| 35       | 30166.A0151 | Shim .005 .....                                    | A/R |
| 35       | 30166.A0152 | Shim .010 .....                                    | A/R |
| 35       | 30088.A0114 | Shim .030 .....                                    | A/R |
| 36       | 30242.A0146 | Bolt & Washer .....                                | 10  |
| 37       | 30166.A0156 | Seal - Pinion Oil .....                            | 1   |
| 38       | 30166.A0158 | Cotter - Shaft .....                               | 2   |
| 39       | 30166.A0159 | Nut - Shaft.....                                   | 2   |
| 40       | 30166.A0160 | Washer - Shaft .....                               | 2   |
| 41       | 30309.A0105 | Drum - Brake .....                                 | 2   |
| 42       | 30309.A0106 | Bearing - Hub Assy.including<br>items 43,44) ..... | 2   |
| 47       | 30171.A0103 | Dowel - Stud Locking .....                         | 5   |
| 48       | 30171.A0105 | Stud - Wheel .....                                 | 5   |
| 49       | 30242.A0151 | Key - Shaft .....                                  | 2   |
| 50       | 30166.A0172 | Shim .003 .....                                    | A/R |
| 50       | 30166.A0173 | Shim .005 .....                                    | A/R |
| 50       | 30166.A0174 | Shim .010 .....                                    | A/R |
| 50       | 30166.A0175 | Shim .030 .....                                    | A/R |
| 51       | 30309.A0111 | Bolt .....   | 12  |
| 52       | 30309.A0112 | Nipple - Grease .....                              | 2   |
| 53       | 30309.A0113 | Lockwasher .....                                   | 12  |
| 54       | 30166.A0185 | Nut .....  | 12  |
| 55       | 6S.05G      | Bolt (Axle fixing-Salisbury) .                     | 8   |
| 56       | 10S.26      | Washer - (Axle fixing-Salisbury)<br>Hyd. M/C .     | 8   |
|          |             | Gravity M/C .                                      | 6   |

DRUM BRAKE



| Item No. | Part No.    | Description                      | Qty. |
|----------|-------------|----------------------------------|------|
| 1        | 20298.A02   | Drum Brake Assembly L.H. ....    | 1    |
| 2        | 20298.A03   | Drum Brake Assembly R.H. ....    | 1    |
| 3        | 20298.A0201 | Shoe & Lining - leading .....    | 1    |
| 4        | 20298.A0202 | Shoe & Lining - trailing .....   | 1    |
| 5        | 20298.A0203 | Adjuster Assembly .....          | 1    |
| 6        | 20298.A0204 | Expander Assembly .....          | 1    |
| 7        | 20298.A0205 | Post - Steady .....              | 2    |
| 8        | 20102.A0310 | Locknut .....                    | 2    |
| 9        | 20298.A0207 | Spring - Shoe Return .....       | 1    |
| 10       | 20298.A0208 | Spring - Retaining .....         | 1    |
| 11       | 20298.A0209 | Plate - Locking - Expander ..... | 1    |
| 12       | 20298.A0210 | Set Bolt - Adjuster Unit .....   | 2    |
| 13       | 20298.A0211 | Cover - Dust .....               | 1    |
| 14       | 20298.A0212 | Washer - Spring .....            | 2    |
| 15       | 20298.A0213 | Spring - Shoe Return .....       | 1    |

1875 ..... WHEELS & TYRES - SALISBURY AXLE ..... 1875

| Item No. | Part No.  | Description                       | Qty |
|----------|-----------|-----------------------------------|-----|
| 1        | 24S.63    | Wheel - Front L.H. complete ..... | 1   |
| 2        | 24S.64    | Wheel - Front R.H. complete ..... | 1   |
| 3        | 30183.A03 | Rim - Wheel .....                 | 2   |
| 4        | 20S.01    | Tyre 10.5 x 18 x 6 ply .....      | 2   |
| 5        | 23S.04    | Tube .....                        | 2   |
| 6        | 24S.35    | Wheel - Rear complete .....       | 2   |
| 7        | 20129.A03 | Rim - Wheel .....                 | 2   |
| 8        | 21S.01    | Tyre 5.5 x 16 x 4 ply .....       | 2   |
| 9        | 23S.01    | Tube .....                        | 2   |
| 10       | C.177     | Nut - Wheel 5/8 BSF .....         | 16  |

1963 ..... WHEELS & TYRES - NEWAGE AXLE ..... 1963

|    |           |                                   |    |
|----|-----------|-----------------------------------|----|
| 11 | 24S.15    | Wheel - Front L.H. complete ..... | 1  |
| 12 | 24S.16    | Wheel - Front R.H. complete ..... | 1  |
| 13 | 30193.A01 | Rim - Wheel .....                 | 2  |
| 14 | 20S.01    | Tyre 10.5 x 18 x 6 ply .....      | 2  |
| 15 | 23S.04    | Tube .....                        | 2  |
| 16 | CSE.197   | Nut - Wheel .....                 | 12 |
| 17 | 24S.35    | Wheel - Rear complete .....       | 2  |
| 18 | 20129.A03 | Rim - Wheel .....                 | 2  |
| 19 | 21S.01    | Tyre 5.5 x 16 x 4 ply .....       | 2  |
| 20 | 23S.01    | Tube .....                        | 2  |
| 21 | C.177     | Nut - Wheel 5/8 BSF .....         | 6  |

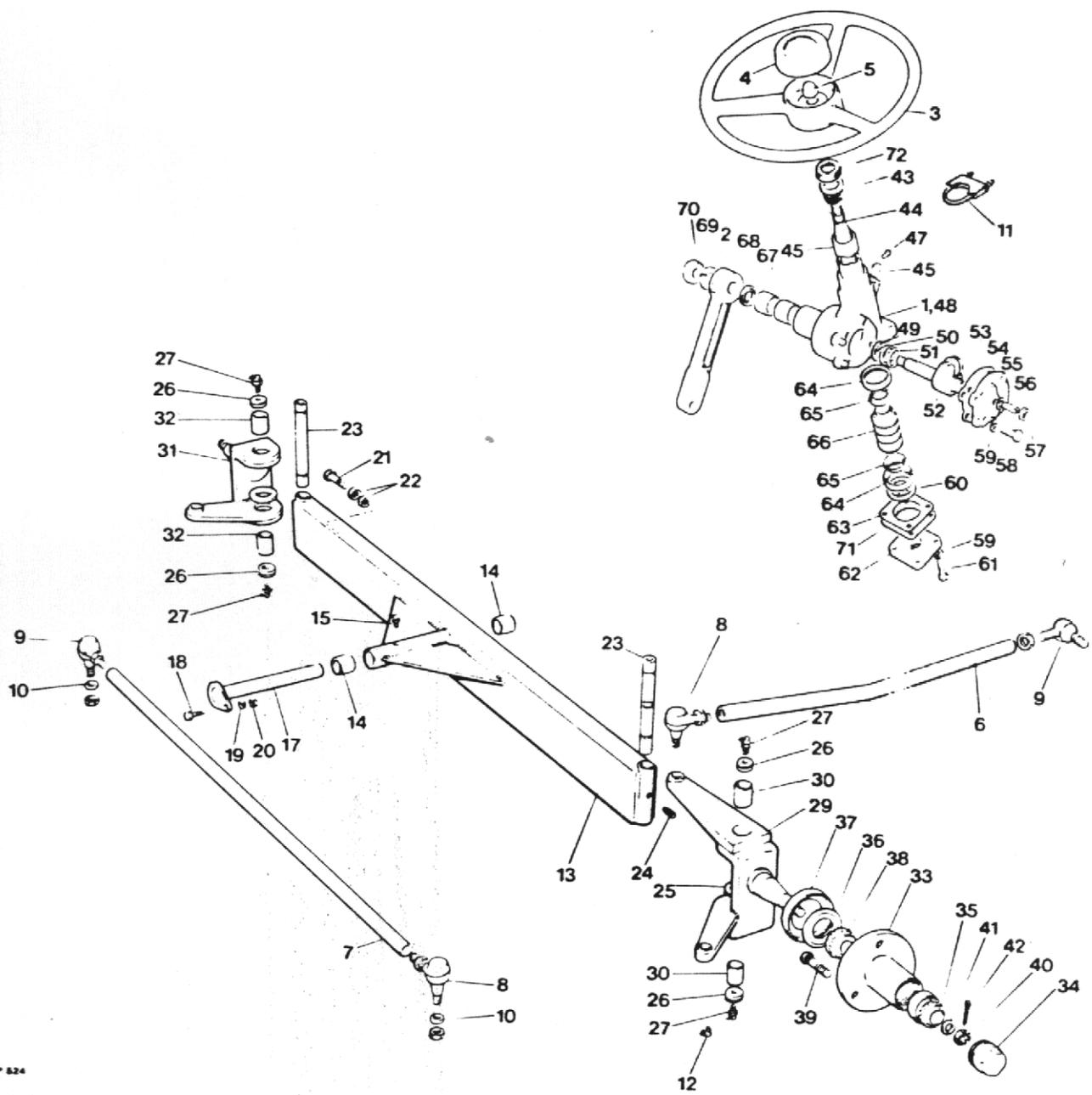
IMPORTANT - (Machines with Newage Axles Only)

A modified wheel rim has been introduced on Machines fitted with rotating skips, eventually this modified wheel will be fitted to all Newage Axled Machines. It is essential that the correct wheel assembly number is quoted when ordering replacements. The wheel rim part number is stamped on the wheel rim.

NEW NUMBERS

| Item No. | Part No.  | Description                              | Qty. |
|----------|-----------|--|------|
| 11       | 24S.69    | Wheel Assy. - complete - Front L.H. .... | 1    |
| 12       | 24S.70    | Wheel Assy. - complete - Front R.H. .... | 1    |
| 13       | 30183.A02 | Rim - Wheel .....                        | 1    |
| 14       | 20S.01    | Tyre 10.5 x 18 x 6 ply .....             | 1    |
| 15       | 23S.04    | Tube .....                               | 1    |

NOTE CHECK RIM & TYRE SIZE BEFORE ORDERING PARTS.



### STEERING

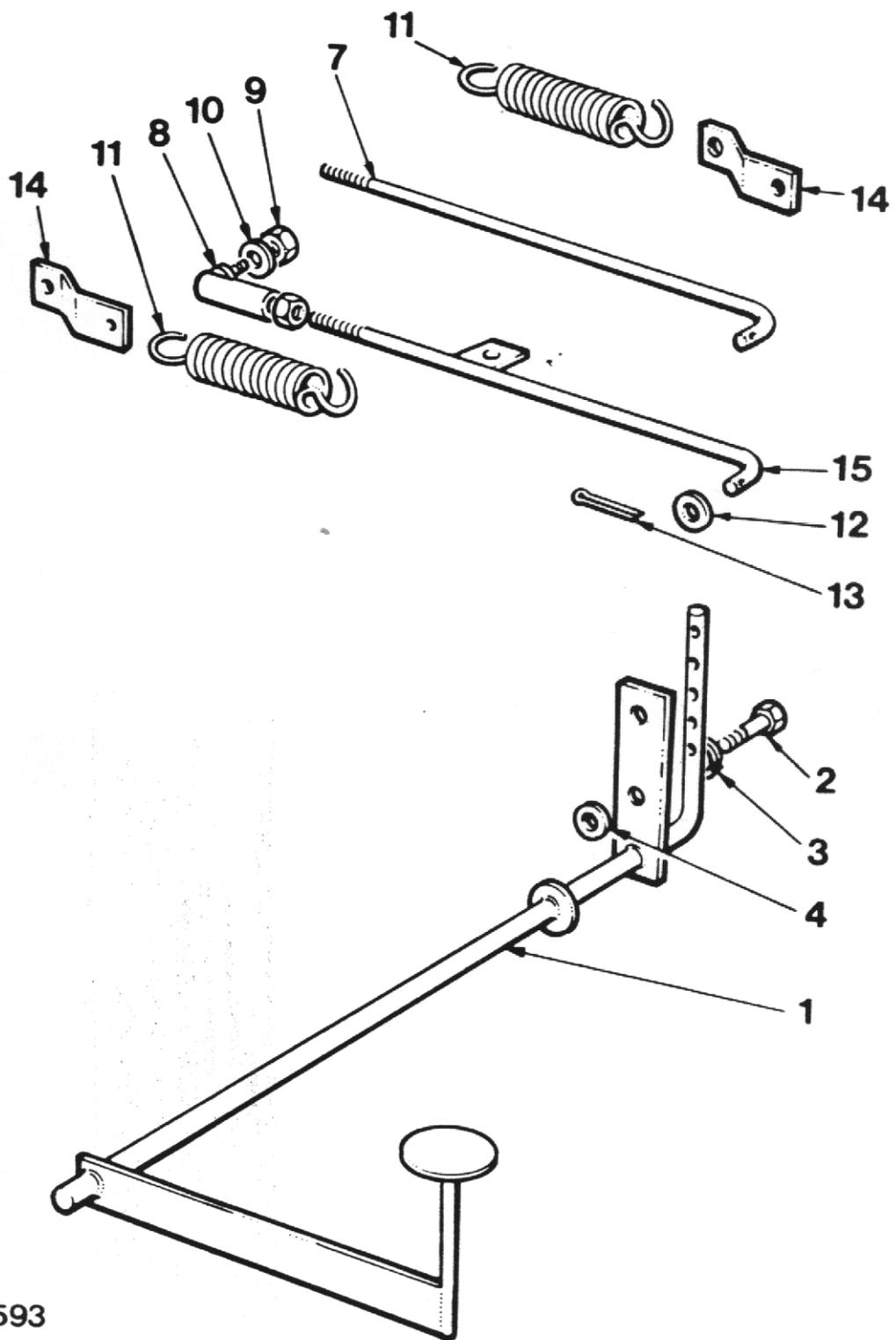
| Item No. | Part No.    | Description                            | Qty |
|----------|-------------|--|-----|
| 1        | 40294.A02   | Steering Box .....                     | 1   |
| 2        | 40294.A0101 | Drop Arm .....                         | 1   |
| 3        | 40064.A01   | Steering Wheel .....                   | 1   |
| 4        | 10314.A01   | Steering Wheel Cap .....               | 1   |
| 5        | C318        | Dome Nut 5/8" UNF .....                | 1   |
| 6        | 10868.A02   | Drag Link 34" .....                    | 1   |
| 7        | 10868.A03   | Track Rod 49" .....                    | 1   |
| 8        | C159R.H.    | Steering Ball End R/H (c/w Nuts) ..... | 2   |
| 9        | C195L.H.    | Steering Ball End L/H (c/w Nuts) ..... | 2   |
| 10       | 10S.04      | Washer 1/2" I/D .....                  | 4   |
| 11       | 153S.07     | Steering Box Clamp .....               | 1   |
| 12       | 176S.01     | Grease Nipple Caps (Ball Ends) .....   | 4   |

### STEERING AXLE

| Item No. | Part No.  | Description  | Qty |
|----------|-----------|--|-----|
| 13       | 30298.A02 | Steering Axle .....                                | 1   |
| 14       | 4SHL91    | Axle Pivot Bush .....                              | 2   |
| 15       | 131S.02   | Grease Nipple 90° .....                            | 1   |
| 16       | 176S.01   | Grease Nipple Cap .....                            | 1   |
| 17       | 20161.A05 | Axle Pivot Pin Assy. ....                          | 1   |
| 18       | 8S.04C    | Bolt M10 x 35 .....                                | 1   |
| 19       | 12S.19    | Washer M10 .....                                   | 1   |
| 20       | 7S.04     | Nut M10 Nyloc .....                                | 1   |
| 21       | 11S.06K   | Screw M16 x 50 Long (Steering Stop) .....          | 2   |
| 22       | 56S.06    | Nut (Half) M16 (Steering Stop) .....               | 4   |
| 23       | L264      | King Pin .....                                     | 2   |
| 24       | 185S.05D4 | Setscrew (King Pin Retainer) .....                 | 2   |
| 25       | C175      | Thrust Washer .....                                | 2   |
| 26       | C180A     | Felt Washer .....                                  | 4   |
| 27       | 131S.02   | Grease Nipple 90° .....                            | 4   |
| 28       | 176S.01   | Grease Nipple Cap .....                            | 4   |
| 29       | L267R.H.  | Stub Axle (R.H.) .....                             | 1   |
| 30       | C190      | King Pin Bush .....                                | 2   |
| 31       | L267L.H.  | Stub Axle (L.H.) .....                             | 1   |
| 32       | C190      | King Pin Bush .....                                | 2   |
| 33       | C186      | Hub Assy. (Complete) - (Compr. Items 34 - 39) .... | 2   |
| 34       | C186-A    | Hub Cap .....                                      | 1   |
| 35       | C186-B    | Bearing - Hub - Outer .....                        | 1   |
| 36       | C186-C    | Oil Seal - Hub Bearing .....                       | 1   |
| 37       | C186-D    | Dust Cover .....                                   | 1   |
| 38       | C186-E    | Bearing - Hub - Inner .....                        | 1   |
| 39       | C186-F    | Wheel Stud .....                                   | 3   |
| 40       | 97S.07    | Nut 5/8P BSF .....                                 | 1   |
| 41       | 10S.05    | Washer .....                                       | 1   |
| 42       | 44S.02C   | Split Pin .....                                    | 1   |

STEERING BOX

| Item No. | Part No.    | Description                               | Qty. |
|----------|-------------|---|------|
| 43       | 40294.A0102 | Bush - Column Top .....                   | 1    |
| 44       | 40294.A0103 | Inner Shaft .....                         | 1    |
| 45       | 40294.A0104 | Outer Tube .....                          | 1    |
| 46       | 40294.A0105 | Oil Plug .....                            | 1    |
| 47       | 40294.A0106 | Pin .....                                 | 1    |
| 48       | 40294.A0107 | Steering Box (case and cover plate) ..... | 1    |
| 49       | 40294.A0108 | Thrust Washer .....                       | 2    |
| 50       | 40294.A0109 | Shim .....                                | A/R  |
| 51       | 40294.A0110 | Thrust Washer .....                       | 2    |
| 52       | 40294.A0111 | Rocker Shaft c/w Roller .....             | 1    |
| 53       | 40294.A0112 | Cover Plate Gasket .....                  | A/R  |
| 54       | 40294.A0113 | Cover Plate and Bush .....                | 1    |
| 55       | 40294.A0114 | Spring Washer .....                       | 1    |
| 56       | 40294.A0115 | Adjuster Screw .....                      | 1    |
| 57       | 40294.A0116 | Adjuster Screw Locknut .....              | 1    |
| 58       | 40294.A0117 | Setscrew .....                            | 4    |
| 59       | 40294.A0118 | Spring Washer .....                       | 8    |
| 60       | 40294.A0119 | Washer .....                              | 1    |
| 61       | 40294.A0120 | Setscrew .....                            | 4    |
| 62       | 40294.A0121 | Bottom Cap .....                          | 1    |
| 63       | 40294.A0122 | Shim .....                                | A/R  |
| 64       | 40294.A0123 | Outer Race .....                          | 2    |
| 65       | 40294.A0124 | Cage and Balls .....                      | 2    |
| 66       | 40294.A0125 | Cam .....                                 | 1    |
| 67       | 40294.A0126 | Bush .....                                | 2    |
| 68       | 40294.A0127 | Oil Seal .....                            | 1    |
| 69       | 40294.A0128 | Spring Washer .....                       | 1    |
| 70       | 40294.A0129 | Nut .....                                 | 1    |
| 71       | 40294.A0130 | Bottom Cap Liner .....                    | 2    |
| 72       | 40294.A0131 | Inner Column Shroud .....                 | 1    |



1913 ..... ACCELERATOR PEDAL ..... 1913

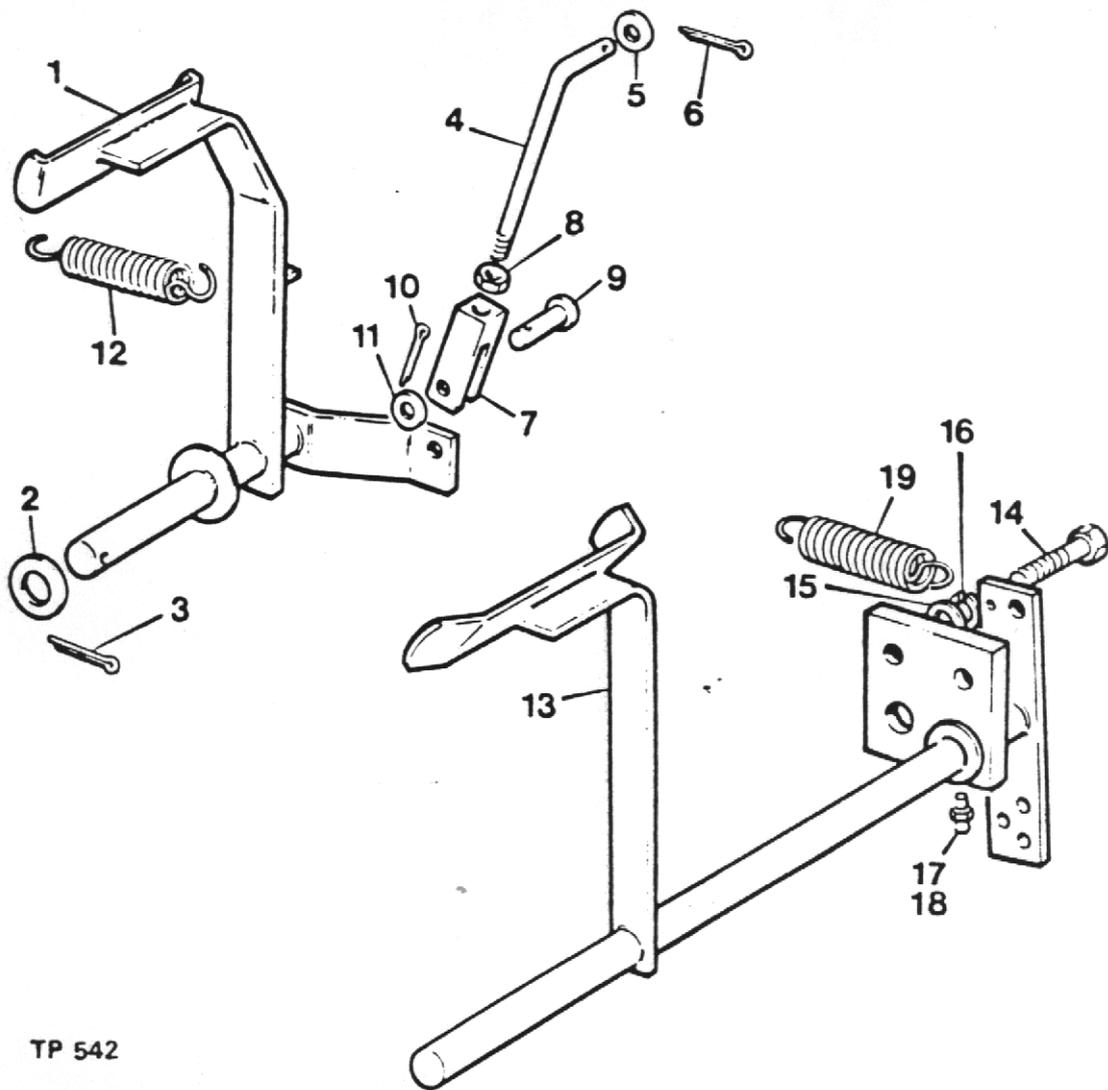
| Item No. | Part No.  | Description                                 | Qty. |
|----------|-----------|---|------|
| 1        | 20231.A03 | Pedal - Accelerator .....                   | 1    |
| 2        | 8S.04C    | Bolt M10 x 35 .....                         | 2    |
| 3        | 17S.05    | Washer - Spring 10 I/D .....                | 2    |
| 4        | 12S.19    | Washer - Flat 10 I/D .....                  | 2    |
| 5        | 131S.03   | Nipple - Grease (Not illustrated) .....     | 1    |
| 6        | 176S.01   | Cap - Grease Nipple (Not illustrated) ..... | 1    |

1901 ..... ACCELERATOR ROD (PETTER) ..... 1901

|    |           |   |   |
|----|-----------|---|---|
| 7  | 10362.A07 | Rod - Accelerator .....                   | 1 |
| 8  | C160B     | Ball End .....                            | 1 |
| 9  | 2S.02     | Nut $\frac{1}{2}$ " BSF .....             | 2 |
| 10 | 10S.01    | Washer $\frac{1}{2}$ " I/D .....          | 1 |
| 11 | C173D     | Spring - Return .....                     | 1 |
| 12 | 12S.02    | Washer M6 I/D .....                       | 1 |
| 13 | 44S.02B   | Pin - Split 3/32" x $\frac{3}{4}$ " ..... | 1 |
| 14 | C163      | Retainer - Spring .....                   | 1 |

1902 ..... ACCELERATOR ROD (LISTER) ..... 1902

|    |           |   |   |
|----|-----------|---|---|
| 15 | 10362.A08 | Rod - Accelerator .....                   | 1 |
| 8  | C160B     | Ball End .....                            | 1 |
| 9  | 2S.02     | Nut $\frac{1}{2}$ " BSF .....             | 2 |
| 10 | 10S.01    | Washer $\frac{1}{2}$ " I/D .....          | 1 |
| 11 | C173D     | Spring - Return .....                     | 1 |
| 12 | 12S.02    | Washer M6 I/D .....                       | 1 |
| 13 | 44S.02B   | Pin - Split 3/32" x $\frac{3}{4}$ " ..... | 1 |
| 14 | C163      | Retainer - Spring .....                   | 1 |



TP 542

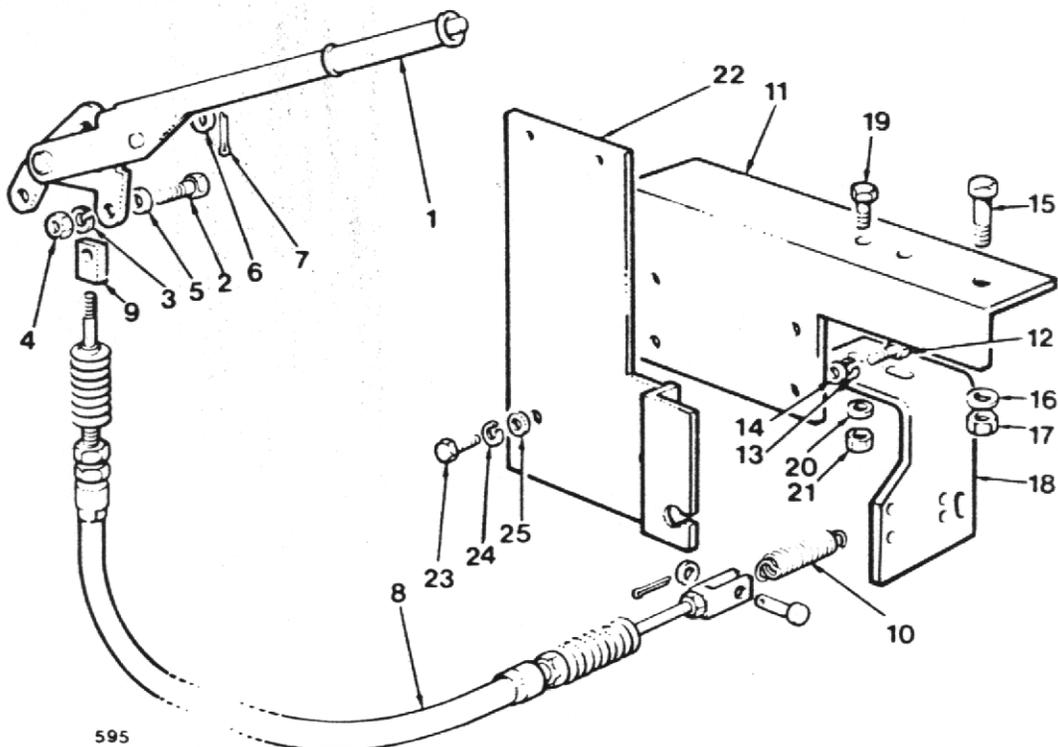
1879 ..... CLUTCH PEDAL & BRAKE PEDAL ..... 1879

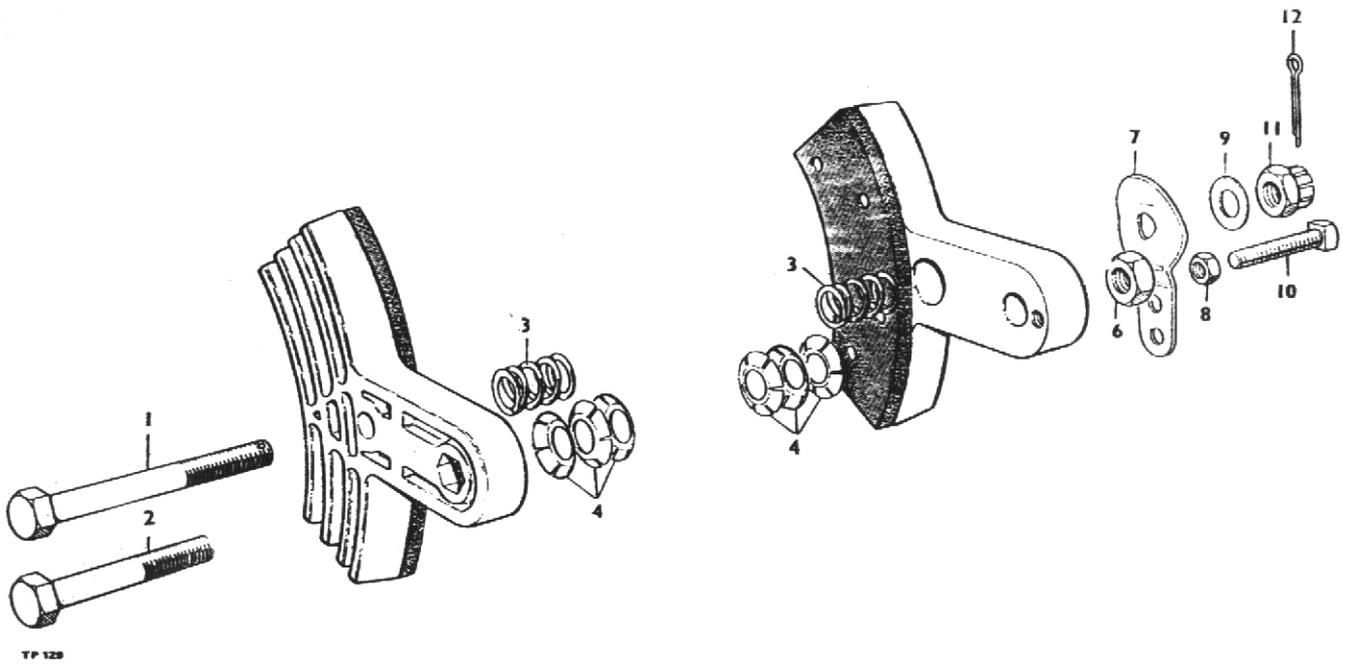
| Item No. | Part No.  | Description                   | Qty. |
|----------|-----------|-------------------------------|------|
| 1        | 20096.A09 | Pedal - Clutch .....          | 1    |
| 2        | 150S.10   | Washer .....                  | 1    |
| 3        | 44S.05E   | Pin - Split 3/16" x 1½" ..... | 1    |
| 4        | 10481.A03 | Rod - Clutch .....            | 1    |
| 5        | 10S.03    | Washer 3/8" .....             | 1    |
| 6        | 44S.03C   | Pin - Split 1/8" x 1" .....   | 1    |
| 7        | C174J     | Clevis .....                  | 1    |
| 8        | 95S.03    | Nut 3/8" UNF .....            | 1    |
| 9        | 10650.A18 | Pin - Clevis .....            | 1    |
| 10       | 44S.02C   | Pin - Split 3/32" x 1" .....  | 1    |
| 11       | 10S.03    | Washer 3/8" .....             | 1    |
| 12       | C173B     | Spring - Return .....         | 1    |
| 13       | 20232.A04 | Pedal - Brake .....           | 1    |
| 14       | 8S.04C    | Bolt M10 x 40 .....           | 2    |
| 15       | 12S.19    | Washer 10 I.D. ....           | 2    |
| 16       | 17S.05    | Washer - Spring M10 I.D. .... | 2    |
| 17       | 131S.03   | Nipple - Grease .....         | 2    |
| 18       | 176S.01   | Cap - Nipple .....            | 2    |
| 19       | C173B     | Spring .....                  | 1    |

HANDBRAKE

2B2000

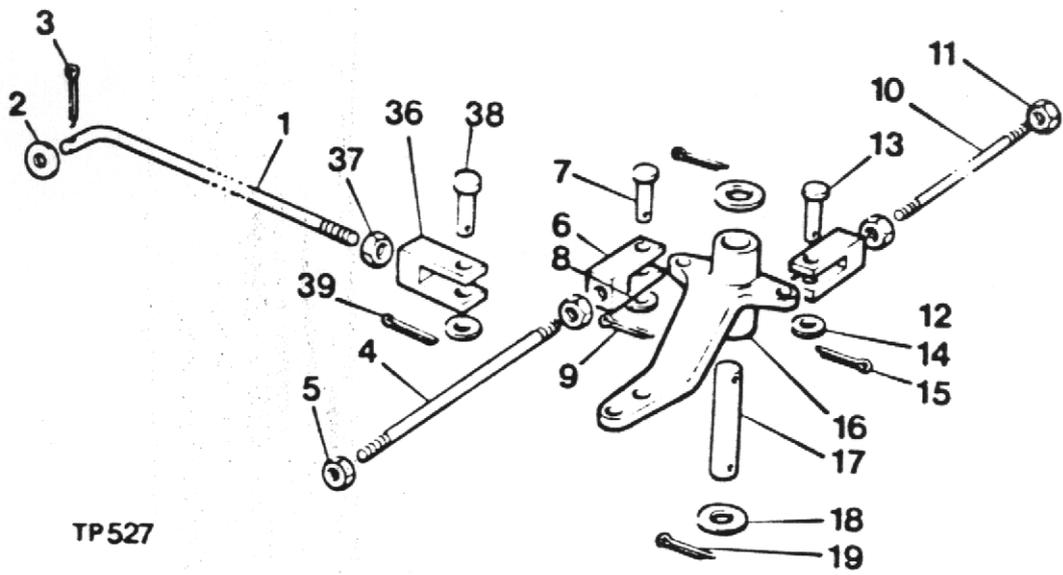
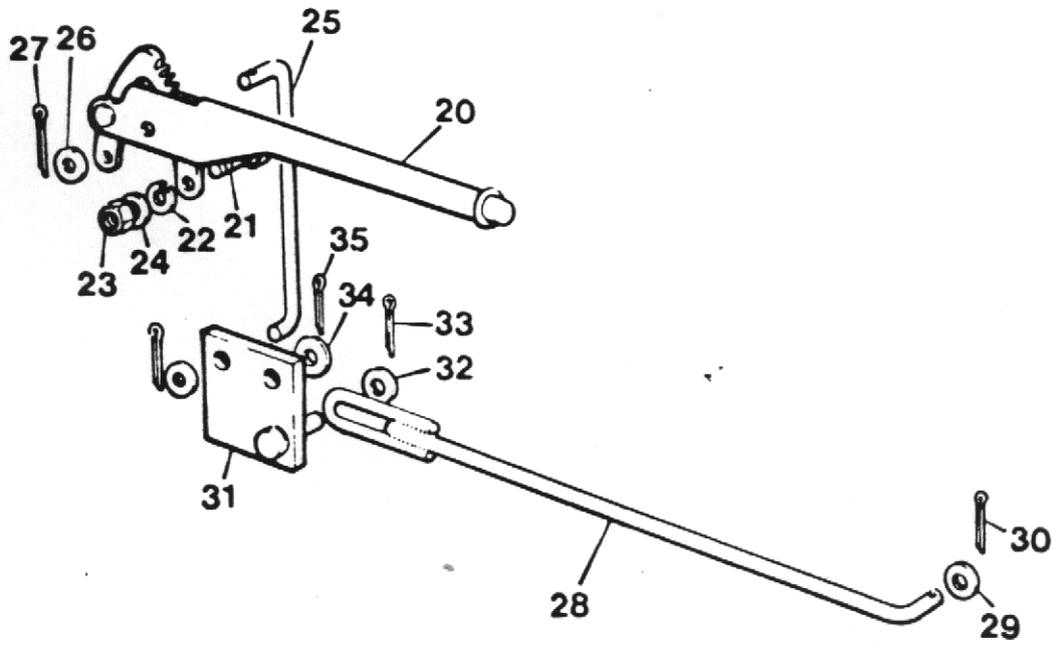
| Item No. | Part No.  | Description                      | Qty. |
|----------|-----------|----------------------------------|------|
| 1        | 20208.A01 | Lever - Handbrake .....          | 1    |
| 2        | 11S.04D   | Screw M10 x 30 .....             | 2    |
| 3        | 17S.05    | Washer - Spring 10 I/D .....     | 2    |
| 4        | 7S.04     | Nut M10 .....                    | 2    |
| 5        | 12S.19    | Washer 10 I/D .....              | 2    |
| 6        | 10S.03    | Washer 3/8" I/D .....            | 1    |
| 7        | 44S.01C   | Pin - Split .....                | 1    |
| 8        | 20273.A02 | Cable - Handbrake .....          | 1    |
| 9        | L309      | Block .....                      | 1    |
| 10       | C173D     | Spring - Return .....            | 1    |
| 11       | 20282.A09 | Bracket - Gearbox Mounting ..... | 1    |
| 12       | 28S.03D   | Screw 3/8" UNF x 3/4" .....      | 2    |
| 13       | 41S.05    | Washer - Spring 3/8" I/D .....   | 2    |
| 14       | 10S.03    | Washer 3/8" I/D .....            | 2    |
| 15       | 6S.05C    | Screw 1/2" UNF x 1 1/2" .....    | 1    |
| 16       | 10S.03    | Washer 1/2" I/D .....            | 1    |
| 17       | 107S.16   | Nut 1/2" UNF Nyloc .....         | 1    |
| 18       | 20282.A10 | Bracket - Caliper Mounting ..... | 1    |
| 19       | 11S.03C   | Screw M8 x 25 .....              | 2    |
| 20       | 12S.18    | Washer 8 I/D .....               | 2    |
| 21       | 59S.12    | Nut M8 Nyloc .....               | 2    |
| 22       | 20282.A08 | Bracket .....                    | 1    |
| 23       | 28S.03D   | Screw 3/8" UNF x 3/4" .....      | 2    |
| 24       | 41S.05    | Washer - Spring 3/8" I/D .....   | 2    |
| 25       | 10S.03    | Washer - Plain 3/8" I/D .....    | 2    |





## CALIPER, parking brake

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



TP527

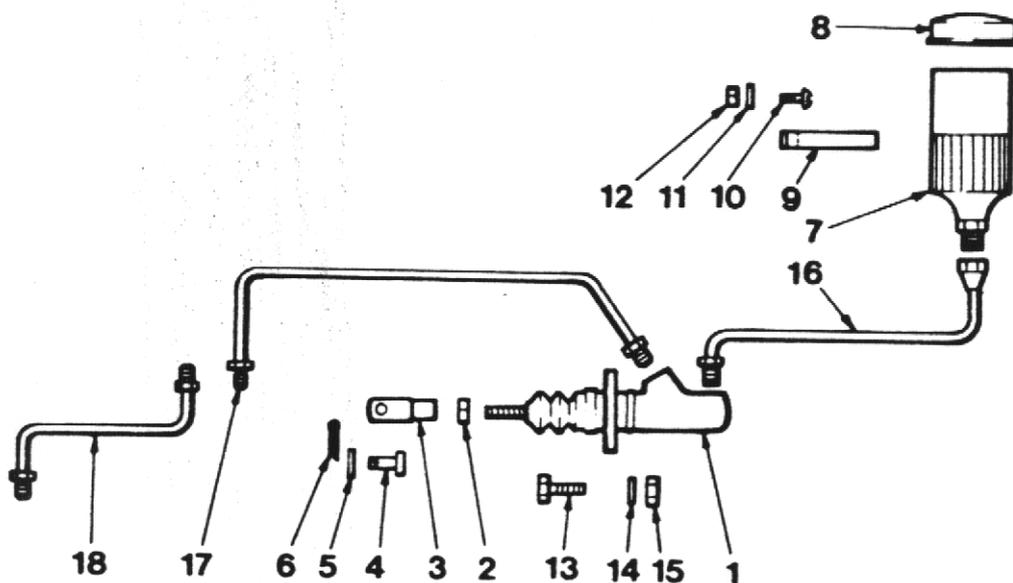
1883 ..... BRAKE LINKAGE - MECHANICAL ..... 1883

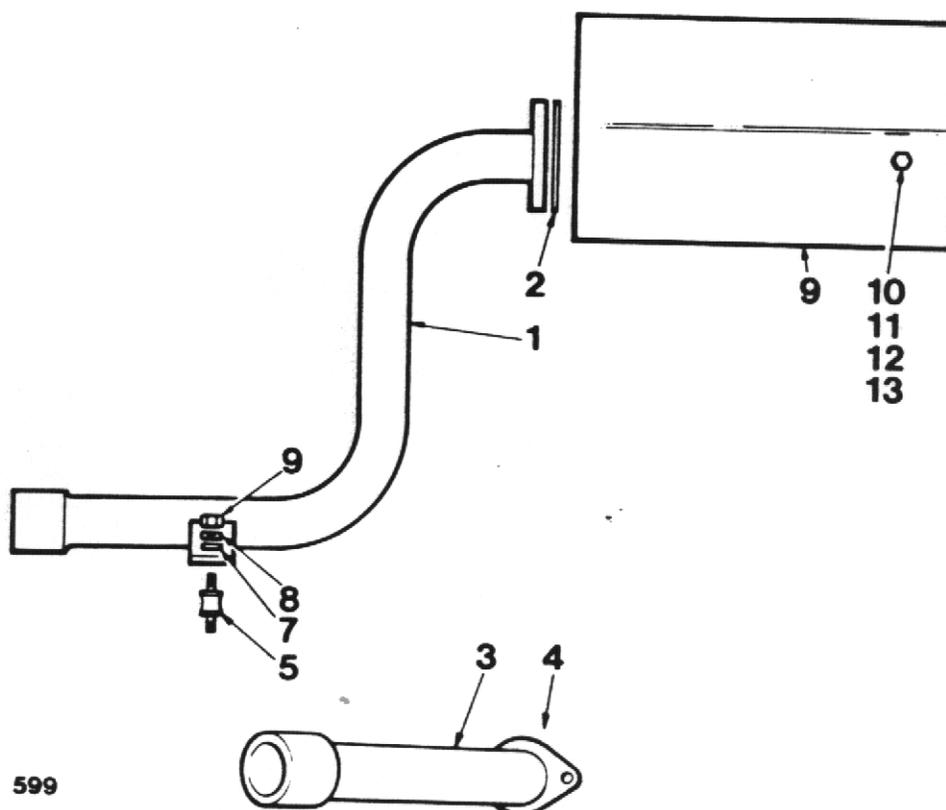
| Item No. | Part No.  | Description                                 | Qty. |
|----------|-----------|---|------|
| 1        | 10888.A04 | Rod - Brake .....                           | 1    |
| 2        | 10S.03    | Washer 3/8" .....                           | 2    |
| 3        | 44S.03C   | Pin - Split 1/8" x 1" .....                 | 1    |
| 4        | 40S.A13   | Rod .....                                   | 1    |
| 5        | 9S.01     | Nut 1/2" UNF .....                          | 2    |
| 6        | C174C     | Clevis .....                                | 1    |
| 7        | 10650.A14 | Pin - Clevis .....                          | 1    |
| 8        | 10S.02    | Washer 5/16" .....                          | 1    |
| 9        | 44S.02B   | Pin - Split 3/32" x 3/4" .....              | 1    |
| 10       | 40S.A04   | Rod .....                                   | 1    |
| 11       | 9S.01     | Nut 1/2" UNF .....                          | 2    |
| 12       | C174C     | Clevis .....                                | 1    |
| 13       | 10650.A14 | Pin - Clevis .....                          | 1    |
| 14       | 10S.02    | Washer 5/16" .....                          | 1    |
| 15       | 44S.02B   | Pin - Split 3/32" x 3/4" .....              | 1    |
| 16       | C.272     | Compensator .....                           | 1    |
| 17       | 10908.A01 | Pin - Pivot .....                           | 1    |
| 18       | 10S.04    | Washer 1/2" I/D .....                       | 2    |
| 19       | 44S.03C   | Pin - Split 1/8" x 1" .....                 | 2    |
| 20       | 10596.A01 | Lever - Handbrake .....                     | 1    |
| 21       | 11S.04D   | Bolt M10 x 30 .....                         | 2    |
| 22       | 17S.05    | Washer - Spring M10 .....                   | 2    |
| 23       | 7S.04     | Nut M10 .....                               | 2    |
| 24       | 12S.19    | Washer 10 I/D .....                         | 2    |
| 25       | 10888.A01 | Rod .....                                   | 1    |
| 26       | 10S.03    | Washer 3/8" .....                           | 2    |
| 27       | 44S.02C   | Pin - Split 3/32" x 1" .....                | 2    |
| 28       | 10888.A07 | Rod .....                                   | 1    |
| 29       | 10S.03    | Washer 3/8" .....                           | 1    |
| 30       | 44S.02C   | Pin - Split 3/32" x 1" .....                | 1    |
| 31       | 10889.A01 | Quadrant .....                              | 1    |
| 32       | C180B     | Washer 3/8" I/D x 1 1/2" O/D .....          | 1    |
| 33       | 44S.02C   | Split pin 3/32" x 1" .....                  | 1    |
| 34       | 10S.04    | Washer 1/2" I/D .....                       | 1    |
| 35       | 44S.03C   | Split Pin 1/8" x 1" .....                   | 1    |
| 36       | C.174J    | Clevis 3/8" UNF .....                       | 1    |
| 37       | 95S.03    | Nut 3/8" UNF .....                          | 1    |
| 38       | 10650.A18 | Clevis Pin .....                            | 1    |
| 39       | 44S.02C   | Pin - Split 3/32" x 1" .....                | 1    |
| 40       | 131S.03   | Nipple - Grease (Not illustrated) .....     | 1    |
| 41       | 176S.01   | Cap - Grease Nipple (Not illustrated) ..... | 1    |

BRAKE PIPES & FITTINGS

2B2000

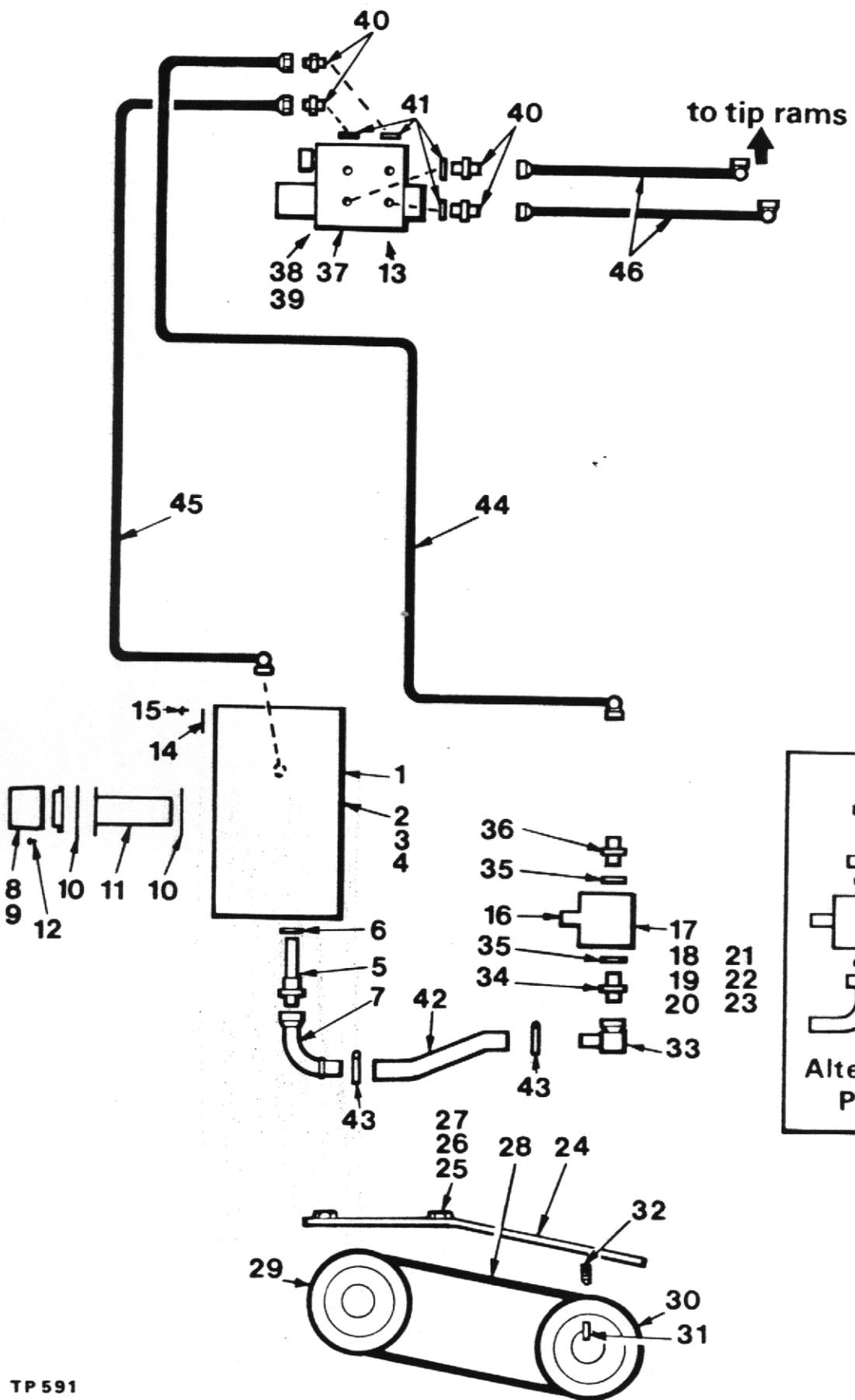
| Item No. | Part No.    | Description  | Qty |
|----------|-------------|--|-----|
| 1        | 20102.A02   | Master Cylinder .....                                      | 1   |
| 2        | 95S.03      | Nut - Thin 3/8" UNF .....                                  | 1   |
| 3        | C174J       | Clevis .....   | 1   |
| 4        | 10650.A14   | Pin - Clevis .....   | 1   |
| 5        | 10S.02      | Washer 5/16" I/D .....                                     | 1   |
| 6        | 44S.02C     | Pin - Split 3/32" x 1" .....                               | 1   |
| 7        | 10659.A02   | Reservoir .....  | 1   |
| 8        | 10659.A0201 | Cap - Reservoir .....                                      | 1   |
| 9        | 10659.A0102 | Clip - Reservoir .....                                     | 1   |
| 10       | 82S.03C     | Screw 2BA x 1/2" .....                                     | 2   |
| 11       | 10S.73      | Washer .202 I/D .....                                      | 2   |
| 12       | 85S.01      | Nut 2BA Nyloc .....  | 2   |
| 13       | 8S.03B      | Bolt M8 x 30 .....   | 2   |
| 14       | 17S.04      | Washer 8 I/D .....   | 2   |
| 15       | 7S.03       | Nut M8 .....   | 2   |
| 16       | 10967.A11   | Pipe .....   | 1   |
| 17       | 10968.A05   | Pipe .....   | 1   |
| 18       | 10968.A02   | Pipe .....   | 1   |
| 19       | 182S.20     | Screw - Brake Bleed (Not illustrated) .....                | 1   |
| 20       | 10848.A01   | Label - "Mineral Oil Only" Warning (Not illustrated) ..... | 1   |





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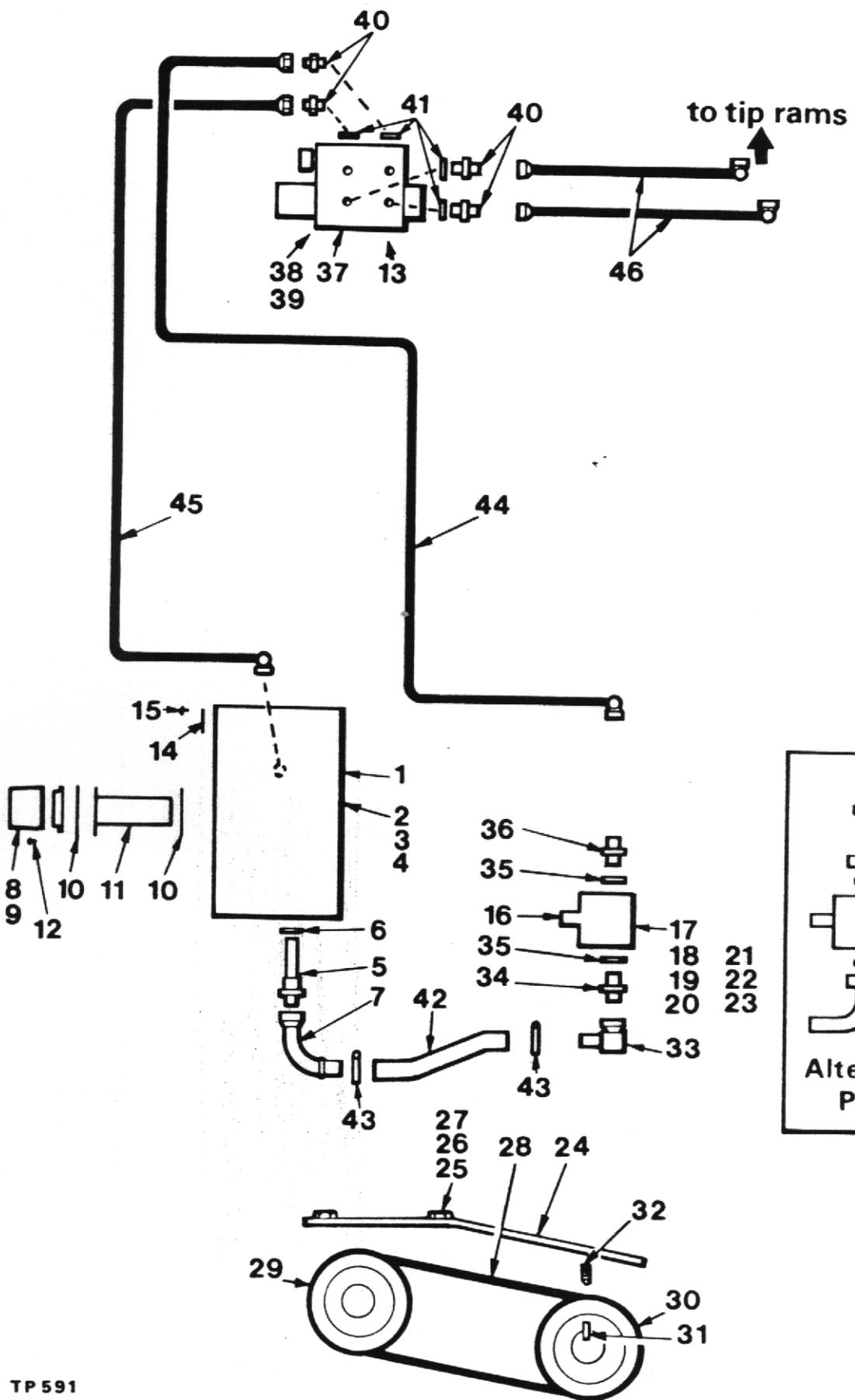
| Item No. | Part No.  | Description                      | Qty. |
|----------|-----------|----------------------------------|------|
| 1        | 20295.A01 | Exhaust (Petter) .....           | 1    |
| 2        | 10293.A02 | Gasket (Petter) .....            | 1    |
| 3        | 20295.A06 | Exhaust (Lister) .....           | 1    |
| 4        | 10293.A03 | Gasket (Lister) .....            | 1    |
| 5        | 10371.A01 | Mounting - Rubber (Petter) ..... | 1    |
| 6        | 7S.03     | Nut M8 .....                     | 2    |
| 7        | 12S.03    | Washer - Plain 8 I/D .....       | 2    |
| 8        | 17S.04    | Washer - Spring 8 I/D .....      | 2    |
| 9        | 10955.A01 | Cover - Exhaust (Petter) .....   | 1    |
| 10       | 11S.02B   | Screw - Hex Hd. M8 x 20 .....    | 1    |
| 11       | 12S.03    | Washer - Plain 8 I/D .....       | 1    |
| 12       | 17S.04    | Washer - Spring 8 I/D .....      | 1    |
| 13       | 7S.03     | Nut - M8 .....                   | 1    |



## HYDRAULICS

2B2000

| Item No. | Part No.    | Description                                | Qty. |
|----------|-------------|--|------|
| 1        | 30286.A07   | Tank Hydraulic .....                       | 1    |
| 2        | 11S.04C     | Screw M10 x 25 .....                       | 4    |
| 3        | 17S.05      | Washer 10 I/D .....                        | 4    |
| 4        | 7S.04       | Nut M10 .....                              | 4    |
| 5        | 901S.002    | Unit - Filter .....                        | 1    |
| 6        | 186S.14     | Washer - Sealing .....                     | 1    |
| 7        | 129S.05E    | Elbow .....                                | 1    |
| 8        | 10565.A01   | Cap - Filler .....                         | 1    |
| 9        | 10565.A0101 | Gasket - Cork (Cap) .....                  | 1    |
| 10       | 10565.A0103 | Gasket - Paper .....                       | 2    |
| 11       | 10565.A0104 | Strainer .....                             | 1    |
| 12       | 101S.07E    | Rivet .....                                | 1    |
| 13       | 10284.A01   | Label - Dump/Return .....                  | 1    |
| 14       | 10546.A04   | Label - Hydraulic Oil .....                | 1    |
| 15       | 101S.05D    | Rivet - Pop .....                          | 2    |
| 16       | 10539.A02   | Pump (Petter) .....                        | 1    |
| 16       | 10590.A03   | Pump (Lister) .....                        | 1    |
| 17       | 30314.A01   | Bracket (Pump Mounting) .....              | 1    |
| 18       | 52S.02H     | Screw M6 x 40 (Pump to Bracket) .....      | 4    |
| 19       | 12S.02      | Washer M6 I/D (Pump to Bracket) .....      | 4    |
| 20       | 59S.14      | Nut - Nyloc M6 (Pump to Bracket) .....     | 4    |
| 21       | 11S.05E     | Screw M12 x 35 (Bracket to Chassis) .....  | 2    |
| 22       | 12S.22      | Washer M12 I/D (Bracket to Chassis) .....  | 2    |
| 23       | 59S.04      | Nut - Nyloc M12 (Bracket to Chassis) ..... | 2    |
| 24       | 10944.A03   | Guard - Belt (Petter) .....                | 1    |
| 24       | 10944.A04   | Guard - Belt (Lister) .....                | 1    |
| 25       | 11S.02B     | Screw M6 x 20 .....                        | 2    |
| 26       | 12S.02      | Washer M6 I/D .....                        | 2    |
| 27       | 59S.14      | Nut - Nyloc M6 .....                       | 2    |
| 28       | 189S.01A    | Belt - Wedge .....                         | 2    |
| 29       | 20307.A06   | Pulley - Pump .....                        | 1    |
| 30       | 20307.A04   | Pulley - Engine (Petter) .....             | 1    |
| 30       | 20307.A05   | Pulley - Engine (Lister) .....             | 1    |
| 31       | 210S.02C    | Key - Engine Shaft (Petter) .....          | 1    |
| 31       | 210S.03C    | Key - Engine Shaft (Lister) .....          | 1    |
| 32       | 57S.05E     | Setscrew M8 Cp. Pt. Skt. Hd. ....          | 1    |
| 33       | 123S.01     | Elbow .....                                | 1    |
| 34       | 119S.13     | Adaptor .....                              | 1    |
| 35       | 100S.04     | Seal - Bonded (Petter) .....               | 2    |
| 35       | 100S.06     | Seal - Bonded (Lister) .....               | 2    |
| 36       | 119S.08     | Adaptor (Petter) .....                     | 1    |
| 36       | 119S.10     | Adaptor (Lister) .....                     | 1    |
| 37       | 30322.A01   | Valve - Control .....                      | 1    |
| 38       | 11S.03A     | Screw M8 x 16 .....                        | 2    |
| 39       | 17S.04      | Washer M8 I/D .....                        | 2    |
| 40       | 119S.08     | Adaptor .....                              | 4    |
| 41       | 100S.04     | Seal - Bonded .....                        | 4    |

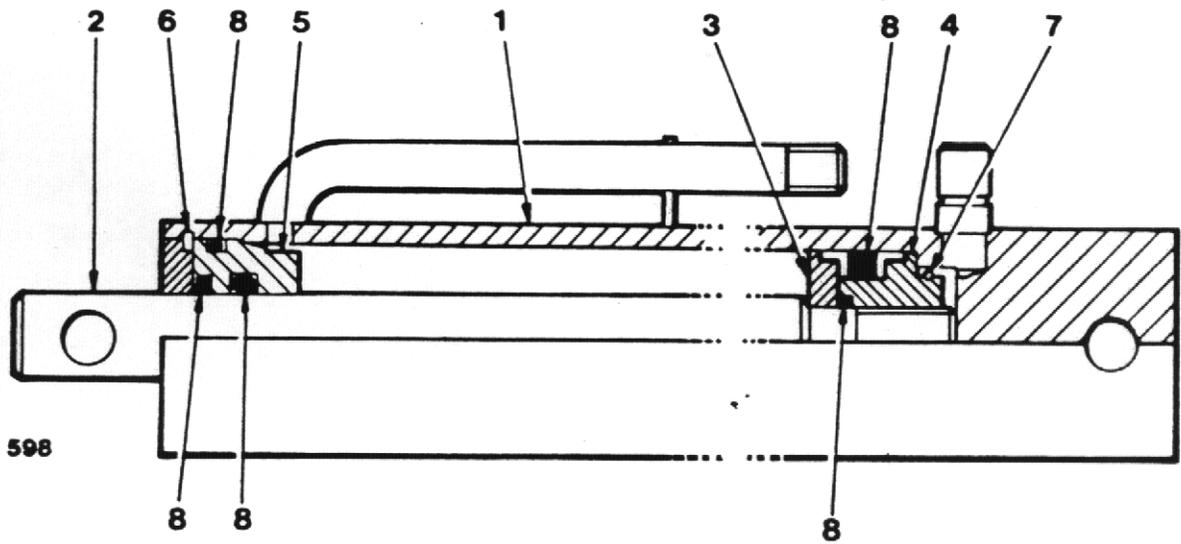


## HYDRAULICS Cont'd

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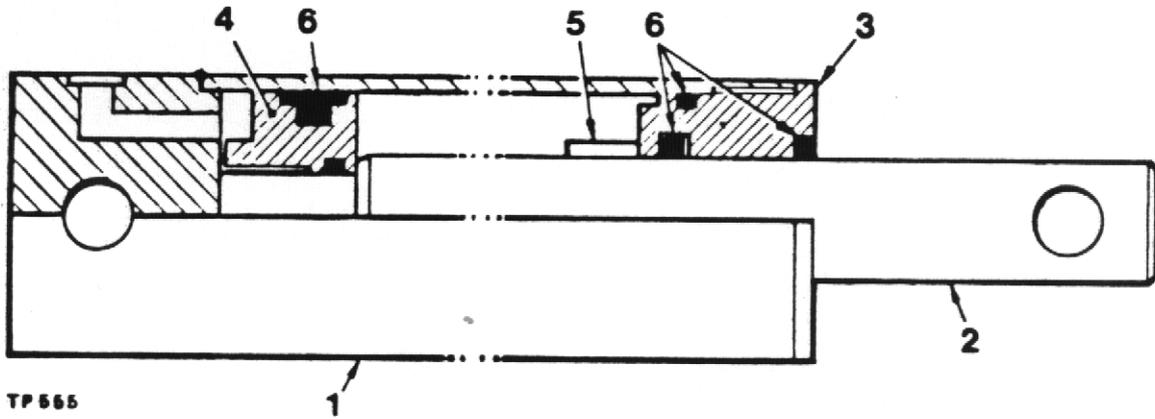
| Item No.             | Part No.    | Description                   | Qty. |
|----------------------|-------------|-------------------------------|------|
| 42                   | 37S.01I     | Hose (Petter) .....           | 1    |
| 42                   | 37S.01R     | Hose (Lister) .....           | 1    |
| 43                   | 97S.07      | Clip - Hose .....             | 2    |
| 44                   | 31S.02AA    | Hose .....                    | 1    |
| 45                   | 31S.02V     | Hose .....                    | 1    |
| 46                   | 31S.02D     | Hose .....                    | 2    |
| 47                   | 122S.03     | Adaptor .....                 | 1    |
| 48                   | 103S.03C    | Capscrew 5/16" UNC x 1" ..... | 4    |
| 49                   | 4-35-261    | Plate - Adaptor .....         | 1    |
| 50                   | 49S.11      | 'O' Ring .....                | 2    |
| 51                   | 10539.A01   | Pump (Petter) .....           | 1    |
| 51                   | 10589.A01   | Pump (Lister) .....           | 1    |
| 52                   | 20065.A02   | Pipe - Inlet .....            | 1    |
| <u>CONTROL VALVE</u> |             |                               |      |
|                      | 30322.A0101 | Lever Assy. ....              | 1    |
|                      | 30322.A0102 | Relief Valve .....            | 1    |

HYDRAULIC RAM - 30121.A06  
(FORWARD TIP)



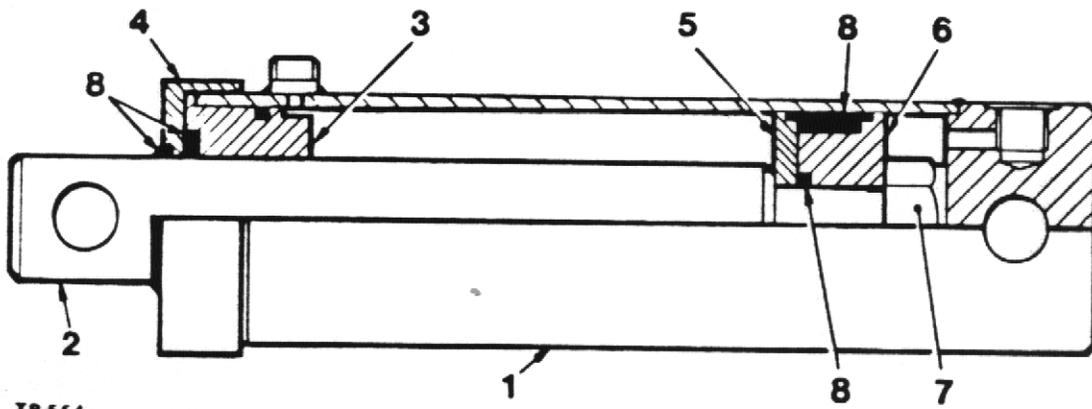
| Item No. | Part No.    | Description            | Qty. |
|----------|-------------|------------------------|------|
| 1        | 30121.A0601 | Cylinder .....         | 1    |
| 2        | 30121.A0602 | Rod - Piston .....     | 1    |
| 3        | 30121.A0603 | Washer - Backing ..... | 1    |
| 4        | 30121.A0604 | Head - Piston .....    | 1    |
| 5        | 30121.A0605 | Gland .....            | 1    |
| 6        | 30121.A0606 | Circlip .....          | 1    |
| 7        | 30121.A0115 | Ring - Spring .....    | 1    |
| 8        | 10558.A10   | Seal Kit .....         | A/R  |

HYDRAULIC RAM - 30113.A04  
(ROTATING SKIP)



| Item No. | Part No.    | Description            | Qty. |
|----------|-------------|------------------------|------|
| 1        | 30113.A0401 | Cylinder .....         | 1    |
| 2        | 30113.A0402 | Piston Rod .....       | 1    |
| 3        | 30113.A0403 | Gland .....            | 1    |
| 4        | 30113.A0404 | Piston Head .....      | 1    |
| 5        | 30113.A0405 | Spacer .....           | 1    |
| 6        | 30113.A0406 | Service Seal Kit ..... | A/R  |

HYDRAULIC RAM - 30302.A01  
(HIGH DISCHARGE)



| Item No. | Part No.    | Description            | Qty. |
|----------|-------------|------------------------|------|
| 1        | 30302.A0101 | Cylinder .....         | 1    |
| 2        | 30302.A0102 | Piston Rod .....       | 1    |
| 3        | 30302.A0103 | Gland .....            | 1    |
| 4        | 30302.A0104 | Ring Nut .....         | 1    |
| 5        | 30302.A0105 | Piston (Front) .....   | 1    |
| 6        | 30302.A0106 | Piston (Rear) .....    | 1    |
| 7        | 30302.A0107 | Locking Nut .....      | 1    |
| 8        | 30302.A0108 | Service Seal Kit ..... | A/R  |

CYCLOPAC AIRCLEANER (OPTIONAL)

2B2000

| <u>Item</u> | <u>Part No.</u> | <u>Description</u> | <u>Qty</u> |
|-------------|-----------------|--------------------|------------|
| 1           | 10532 A01       | Air Cleaner        | 1          |
| 2           | 10533 A01       | Mounting Bend      | 2          |
| 3           | 10534 A01       | Stack Cap          | 1          |
| 4           | 85.03A          | Bolt               | 4          |
| 5           | 61S.03          | Nut                | 4          |
| 6           | 12S.03          | Washer             | 4          |
| 7           | 10840 A03       | Hose Assy (Petter) | 1          |
|             | 10840 A0301     | - Hose             | 1          |
|             | 10320 A06       | - Adaptor Sleeve   | 1          |
| 8           | 97S.12          | Clip Hose          | 2          |
| 9           | 10840. A07      | Hose Assy (Lister) | 1          |
|             | 10840 A0701     | - Hose             | 1          |
|             | 10320 A04       | - Adaptor Sleeve   | 1          |
| 10          | 97S.11          | Clip Hose          | 2          |

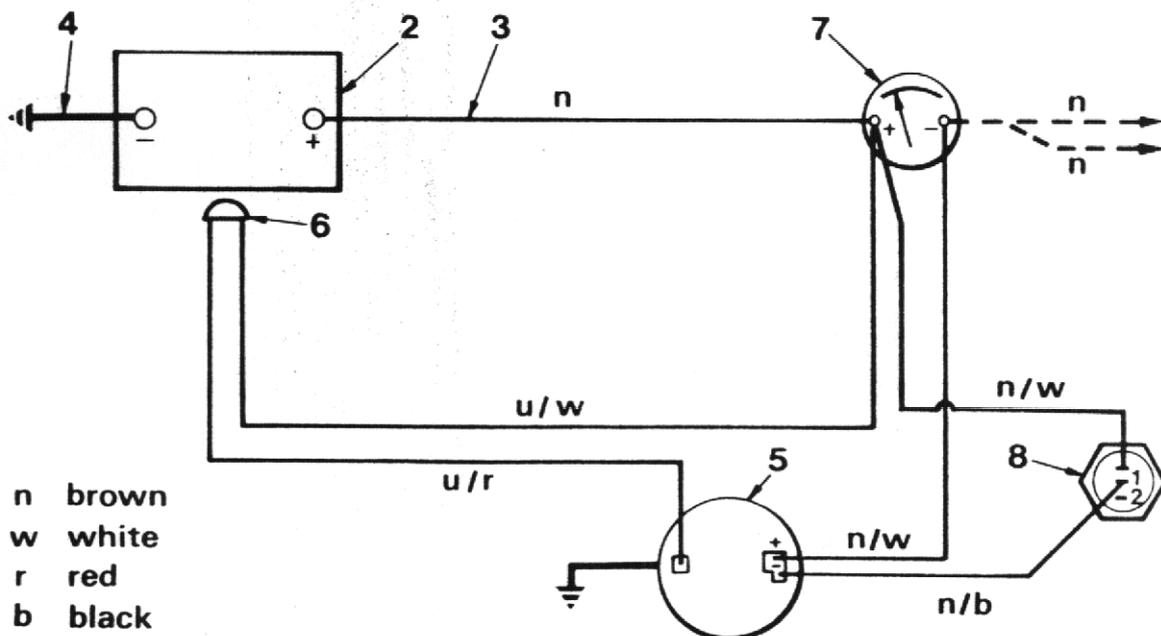
## DAYTIME ROAD EQUIPMENT - (OPTIONAL)

2B2000

| Item No. | Part No.  | Description                          | Qty. |
|----------|-----------|--------------------------------------|------|
| 1        | 10203.A04 | Mirror - Rear View .....             | 1    |
| 2        | 20321.A02 | Arm - Mirror - (Lister Engine) ..... | 1    |
|          | 20231.A03 | Arm - Mirror - (Petter Engine) ..... | 1    |
| 3        | CSE.200   | Horn .....                           | 1    |
| 4        | 101S.07   | Rivet .....                          | 1    |
| 5        | 10607.A01 | Licence Holder .....                 | 1    |
| 6        | 12S.20    | Washer .....                         | 1    |

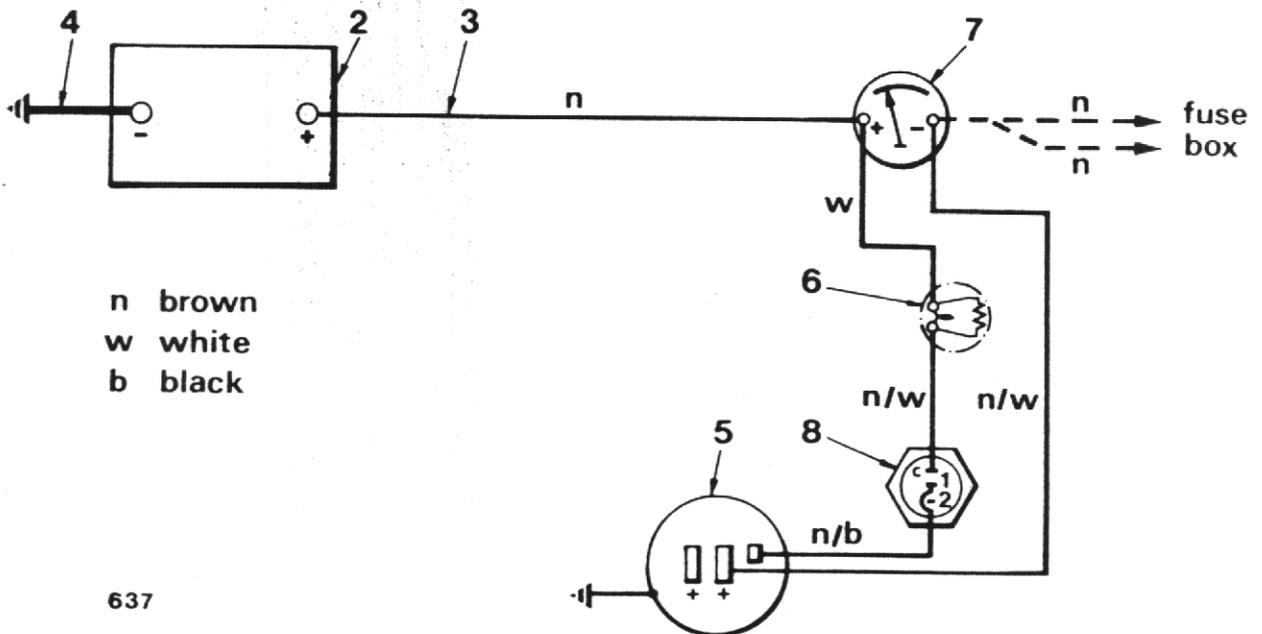
## CHARGING CIRCUIT - HANDSTART ENGINE - PETER

| Item No. | Part No.    | Description                                  | Qty. |
|----------|-------------|--|------|
| 1        | 30231.A04   | Wiring Harness - (Supplied with engine) .... | 1    |
| 2        | 109S.08     | Battery .....                                | 1    |
|          | 109S.05     | Battery - (Alternative) .....                | 1    |
| 3        | 10227.A05   | Cable - Positive .....                       | 1    |
| 4        | 10990.A06   | Cable - Negative .....                       | 1    |
| 5        |             | Alternator .....                             | 1    |
| 6        |             | Sensor - Temperature ) .....                 | 1    |
| 7        |             | Ammeter .....                                | 1    |
| 8        |             | Switch - Pressure ... ) .. with .....        | 1    |
| 9        |             | Pulley .....                                 | 1    |
| 10       |             | Drive Belt .....                             | 1    |
| 11       | 30178.A06   | Guard - Drive Belt - (Hyd. M/C's) .....      | 1    |
|          | 30178.A08   | Guard - Drive Belt - (Non Hyd. M/C's) .....  | 1    |
| 12       | 11S.02A     | Screw .....                                  | 2    |
| 13       | 59S.14      | Nut .....                                    | 2    |
| 14       | 12S.02      | Washer .....                                 | 2    |
| 15       | 30080.A0303 | Locking Bar .....                            | 1    |
| 16       | 11S.04C     | Screw .....                                  | 2    |
| 17       | 59S.03      | Nut .....                                    | 2    |
| 18       | 10742.A05   | Battery Cover .....                          | 1    |
| 19       | 177S.03     | Wing Nut .....                               | 2    |
| 20       | 20325.A01   | Battery Clamp .....                          | 1    |
| 21       | 40S.A17     | Tie Rod .....                                | 2    |
| 22       | 9S.01       | Nut .....                                    | 8    |



OPTION CHARGING CIRCUIT - HAND START ENGINE - LISTER 2B2000

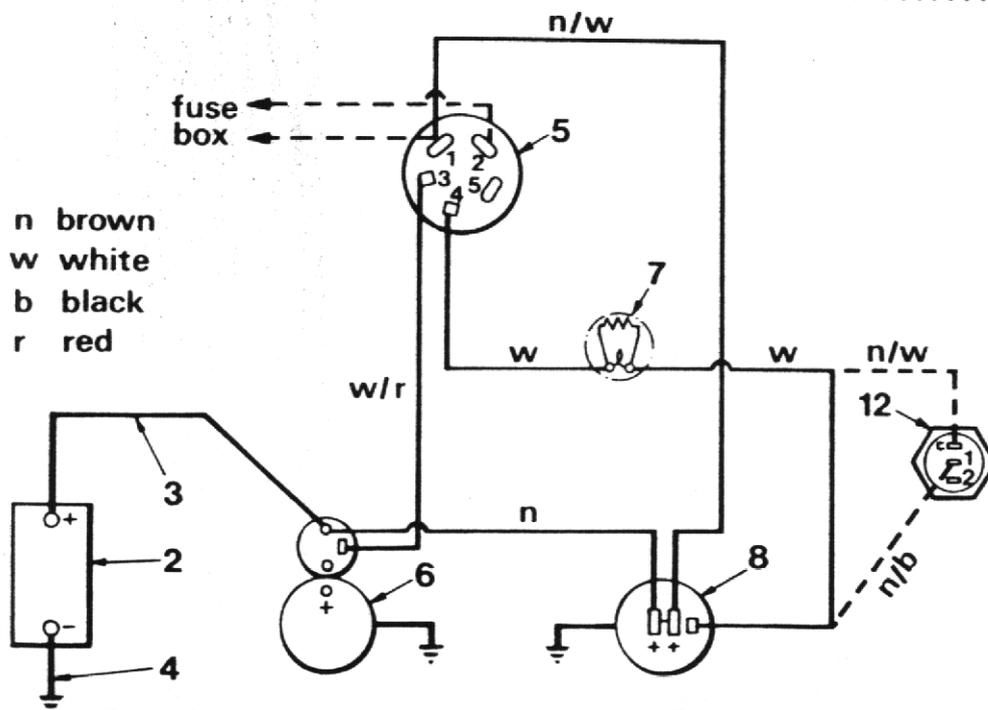
| Item No. | Part No.    | Description                                   | Qty. |
|----------|-------------|---|------|
| 1        | 30231.A06   | Wiring Harness .....                          | 1    |
| 2        | 109S.08     | Battery .....                                 | 1    |
|          | 109S.05     | Battery - (Alternative) .....                 | 1    |
| 3        | 10227.A05   | Cable - Positive .....                        | 1    |
| 4        | 10990.A06   | Cable - Negative .....                        | 1    |
| 5        |             | Alternator .....                              | 1    |
| 6        |             | Excitation Resistor & Warning Light) Supplied | 1    |
| 7        |             | Ammeter .....                                 | 1    |
| 8        |             | Switch - Pressure .....                       | 1    |
| 9        |             | Pulley .....                                  | 1    |
| 10       |             | Drive Belt .....                              | 1    |
| 11       | 30178.A07   | Guard - Drive Belt ..)                        | 1    |
| 12       | 10986.A01   | Distance Tube .....                           | 2    |
| 13       | 8S.02J      | Bolt .....                                    | 2    |
| 14       | 59S.14      | Nut .....                                     | 2    |
| 15       | 12S.02      | Washer .....                                  | 2    |
| 16       | 11S.04D     | Screw .....                                   | 2    |
| 17       | 59S.03      | Nut .....                                     | 2    |
| 18       | 12S.19      | Washer .....                                  | 2    |
| 19       | 30080.A0303 | Locking Bar .....                             | 1    |
| 20       | 11S.04C     | Screw .....                                   | 2    |
| 21       | 59S.03      | Nut .....                                     | 2    |
| 22       | 10742.A05   | Battery Cover .....                           | 1    |
| 23       | 177S.03     | Wing Nuts .....                               | 2    |
| 24       | 20325.A01   | Battery Clamp .....                           | 1    |
| 25       | 40S.A17     | Tie Rod .....                                 | 2    |
| 26       | 9S.01       | Nut .....                                     | 8    |



CHARGING & STARTING CIRCUIT - LISTER

2B2000

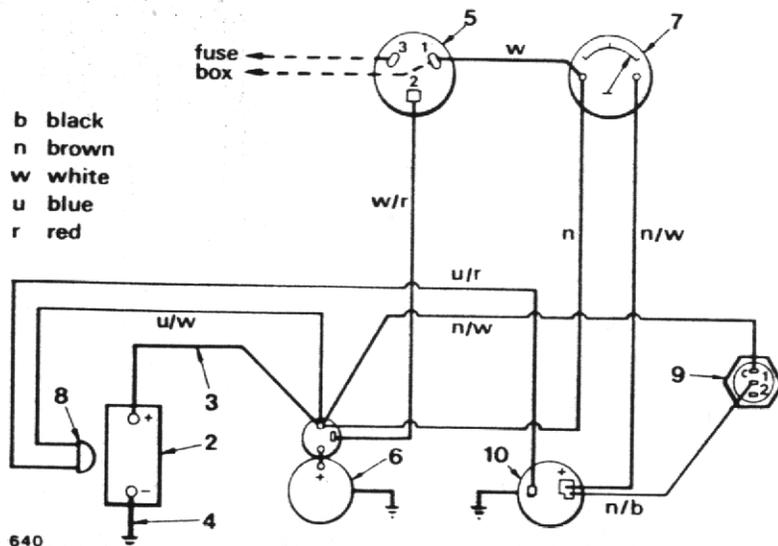
| Item No. | Part No.    | Description                                 | Qty. |
|----------|-------------|---|------|
| 1        | 30231.A05   | Wiring Harness .....                        | 1    |
| 2        | 109S.08     | Battery .....                               | 1    |
|          | 109S.05     | Battery - (Alternative) .....               | 1    |
| 3        | 10989.A07   | Cable - Positive .....                      | 1    |
| 4        | 10990.A06   | Cable - Negative .....                      | 1    |
| 5        |             | Switch - Key Start .....                    | 1    |
| 6        |             | Starter c/w solenoid .....                  | 1    |
| 7        |             | Warning Light c/w excitor ... ) Supplied .  | 1    |
| 8        |             | Alternator .....                            | 1    |
| 9        |             | Panel Box .....                             | 1    |
| 10       |             | Drive Pulley .....                          | 1    |
| 11       |             | Drive Belt .....                            | 1    |
| 12       |             | Switch - Pressure - (Optional) ) .....      | 1    |
| 13       | 11S.02B     | Screw - (Panel Box fixing) .....            | 4    |
| 14       | 59S.14      | Nut .....                                   | 4    |
| 15       | 12S.02      | Washer .....                                | 4    |
| 16       | 30178.A07   | Guard - Drive Belt - (Non Hyd. M/C's) ..... | 1    |
| 17       | 10986.A01   | Distance Tube .....                         | 2    |
| 18       | 8S.02J      | Bolt .....                                  | 2    |
| 19       | 59S.14      | Nut .....                                   | 2    |
| 20       | 12S.02      | Washer .....                                | 2    |
| 21       | 11S.04D     | Screw .....                                 | 2    |
| 22       | 59S.03      | Nut .....                                   | 2    |
| 23       | 12S.19      | Washer .....                                | 2    |
| 24       | 30080.A0303 | Locking Bar - Battery .....                 | 1    |
| 25       | 11S.04C     | Screw .....                                 | 2    |
| 26       | 59S.03      | Nut .....                                   | 2    |
| 27       | 10742.A05   | Battery Cover .....                         | 1    |
| 28       | 177S.03     | Wing Nuts .....                             | 2    |
| 29       | 20325.A01   | Battery Clamp .....                         | 1    |
| 30       | 40S.A17     | Tie Rod .....                               | 2    |
| 31       | 9S.01       | Nut .....                                   | 8    |

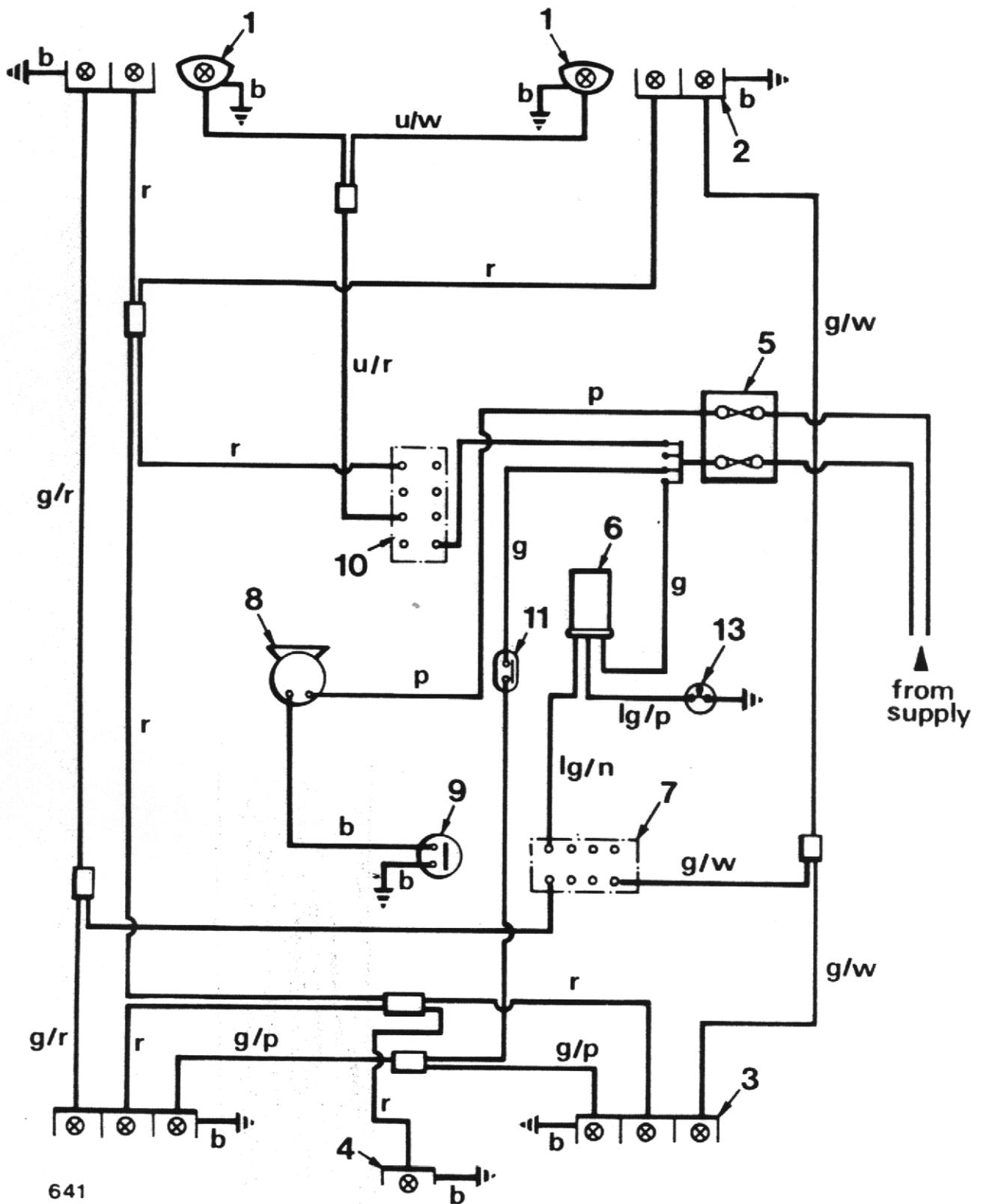


STARTING/CHARGING CIRCUIT - PETTER

2B2000

| Item No. | Part No.    | Description                                | Qty. |
|----------|-------------|--|------|
| 1        | 30231.A03   | Wiring Harness .....                       | 1    |
| 2        | 109S.08     | Battery .....                              | 1    |
|          | 109S.05     | Battery - (Alternative) .....              | 1    |
| 3        | 10989.A06   | Cable - Positive .....                     | 1    |
| 4        | 10990.A06   | Cable - Negative .....                     | 1    |
| 5        |             | Switch - Keystart .... ) .....             | 1    |
| 6        |             | Starter c/w solenoid . ) .....             | 1    |
| 7        |             | Ammeter .....                              | 1    |
| 8        |             | Sensor - Temperature . ) Supplied .....    | 1    |
| 9        |             | Switch - Pressure .... ) .. with .....     | 1    |
| 10       |             | Alternator .....                           | 1    |
| 11       |             | Pulley - Eng. shaft .. ) .....             | 1    |
| 12       |             | Drive Belt .....                           | 1    |
| 13       |             | Instrument Panel Box . ) .....             | 1    |
| 14       | 11S.02B     | Screw .....                                | 2    |
| 15       | 59S.14      | Nut .....                                  | 2    |
| 16       | 12S.02      | Washer .....                               | 2    |
| 17       | 20307.A07   | Pulley - (Bolted to item 11) .....         | 1    |
| 18       | 68S.04D     | Capscrew .....                             | 3    |
| 20       | 1067201     | Guard - Starter Ring .....                 | 1    |
| 21       | 7S.02       | Nut .....                                  | 2    |
| 22       | 17S.03      | Washer .....                               | 2    |
| 23       | 30178.A06   | Guard - Drive Belt - (Hyd. M/C's) .....    | 1    |
| 24       | 30178.A08   | Guard - Drive Belt - (Non-Hyd M/C's) ..... | 1    |
| 25       | 11S.02A     | Screw .....                                | 2    |
| 26       | 59S.14      | Nut .....                                  | 2    |
| 27       | 12S.02      | Washer .....                               | 2    |
| 28       | 30080.A0303 | Locking Bar - Battery .....                | 1    |
| 29       | 11S.04C     | Screw .....                                | 2    |
| 30       | 59S.03      | Nut .....                                  | 2    |
| 31       | 10742.A05   | Battery Cover .....                        | 1    |
| 32       | 177S.03     | Wingnuts .....                             | 2    |
| 33       | 20325.A01   | Battery Clamp .....                        | 1    |
| 34       | 40S.A17     | Tie Rods .....                             | 2    |
| 35       | 9S.01       | Nut .....                                  | 8    |





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- |   |       |    |             |
|---|-------|----|-------------|
| b | black | r  | red         |
| n | brown | y  | yellow      |
| w | white | g  | green       |
| u | blue  | lg | light green |

## FULL ROAD LIGHTING KIT

2B2000

| Item No. | Part No.  | Description                     | Qty. |
|----------|-----------|---------------------------------|------|
| 1        | 10740.A01 | Headlight .....                 | 2    |
|          | 10973.A02 | Bracket - Headlight .....       | 2    |
| 2        | 10462.A02 | Sidelight/Indicator .....       | 2    |
| 3        | 10512.A02 | Rear/Stop/Indicator .....       | 2    |
|          | 82S.03E   | Screw .....                     | 16   |
|          | 85S.01    | Nut .....                       | 16   |
|          | 12S.01    | Washer .....                    | 16   |
| 4        | 10615.A01 | No. Plate Light .....           | 1    |
|          | 10982.A01 | Bracket - No. plate light ..... | 1    |
|          | 11S.02B   | Screw .....                     | 2    |
|          | 59S.14    | Nut .....                       | 2    |
| 5        | 10644.A01 | Fuse box .....                  | 1    |
|          | 82S.03E   | Screw .....                     | 1    |
|          | 85S.01    | Nut .....                       | 1    |
| 6        | 10616.A01 | Flasher Unit .....              | 1    |
| 7        | 10620.A02 | Switch - Indicator .....        | 1    |
|          | 82S.03C   | Screw .....                     | 1    |
|          | 12S.01    | Washer .....                    | 1    |
|          | 85S.01    | Nut .....                       | 1    |
| 8        | 10618.A01 | Horn .....                      | 1    |
|          | 11S.02B   | Screw .....                     | 2    |
|          | 59S.14    | Nut .....                       | 2    |
|          | 12S.02    | Washer .....                    | 2    |
| 9        | 10619.A01 | Button - Horn .....             | 1    |
|          | 82S.07E   | Screw .....                     | 2    |
|          | 85S.03    | Nut .....                       | 2    |
| 10       | 10620.A01 | Lightswitch .....               | 1    |
| 11       | 10939.A02 | Brake switch c/w spring .....   | 1    |
|          | 10972.A01 | Bracket .....                   | 1    |
|          | 11S.03A   | Screw .....                     | 1    |
|          | 59S.02    | Nut .....                       | 1    |
|          | 11S.04A   | Screw ) Used only on .....      | 1    |
|          | 59S.03    | Nut ) Machines with .....       | 1    |
|          | 12S.05    | Washer) Newage Axles .....      | 1    |
| 12       | 20105.A08 | Wiring Harness .....            | 1    |
|          | 180S.01   | Cable Ties .....                | A/R  |
| 13       | 10593.A01 | Warning Light - Indicator ..... | 1    |
| 14       | 30267.A03 | Console .....                   | 1    |
| 15       | 20318.A01 | Backplate .....                 | 1    |
|          | 82S.03C   | Screw .....                     | 2    |
|          | 83S.03    | Nut .....                       | 2    |
|          | 153S.07   | Clamp .....                     | 2    |
| 16       | 10983.A01 | Adaptor .....                   | 1    |
| 17       | 10984.A01 | Lockring .....                  | 1    |
| 18       | 10985.A01 | Conduit .....                   | 1    |
| 19       | A25328    | Plug - Blanking .....           | A/R  |

## DECIMAL, FRACTIONAL AND METRIC EQUIVALENTS

| Inches    |          | Milli-<br>metres | Inches    |          | Milli-<br>metres |
|-----------|----------|------------------|-----------|----------|------------------|
| Fractions | Decimals |                  | Fractions | Decimals |                  |
| 1/64      | 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      | 0.09375  | 2.381            | 19/32     | 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     | 0.171875 | 4.366            | 43/64     | 0.671875 | 17.066           |
| 3/16      | 0.1875   | 4.763            | 11/16     | 0.6875   | 17.463           |
| 13/64     | 0.203125 | 5.159            | 45/64     | 0.703125 | 17.859           |
| 7/32      | 0.21875  | 5.556            | 23/32     | 0.71875  | 18.256           |
| 15/64     | 0.234375 | 5.953            | 47/64     | 0.734375 | 18.653           |
| 1/4       | 0.250    | 6.350            | 3/4       | 0.750    | 19.050           |
| 17/64     | 0.265625 | 6.747            | 49/64     | 0.765625 | 19.447           |
| 9/32      | 0.28125  | 7.144            | 25/32     | 0.78125  | 19.844           |
| 19/64     | 0.296875 | 7.541            | 51/64     | 0.796875 | 20.241           |
| 5/16      | 0.3125   | 7.938            | 13/16     | 0.8125   | 20.638           |
| 21/64     | 0.328125 | 8.334            | 53/64     | 0.828125 | 21.034           |
| 11/32     | 0.34375  | 8.731            | 27/32     | 0.84375  | 21.431           |
| 23/64     | 0.359375 | 9.128            | 55/64     | 0.859375 | 21.828           |
| 3/8       | 0.375    | 9.525            | 7/8       | 0.875    | 22.225           |
| 25/64     | 0.390625 | 9.922            | 57/64     | 0.890625 | 22.622           |
| 13/32     | 0.40625  | 10.319           | 29/32     | 0.90625  | 23.019           |
| 27/64     | 0.421875 | 10.716           | 59/64     | 0.921875 | 23.416           |
| 7/16      | 0.4375   | 11.113           | 15/16     | 0.9375   | 23.813           |
| 29/64     | 0.453125 | 11.509           | 61/64     | 0.953125 | 24.209           |
| 15/32     | 0.46875  | 11.906           | 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".

$$84'' = 2133.60 \text{ mm.}$$

$$5/8'' = 15.875 \text{ mm.}$$

$$84 \text{ } 5/8'' = 2149.475 \text{ mm.}$$

# 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**