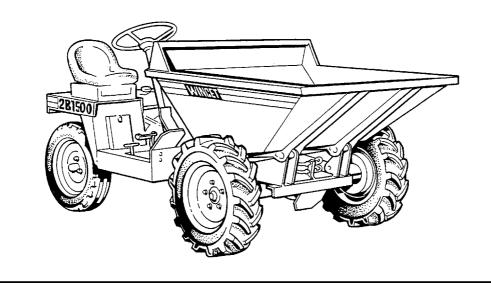
# DUMPERS 2B1000 2B1500

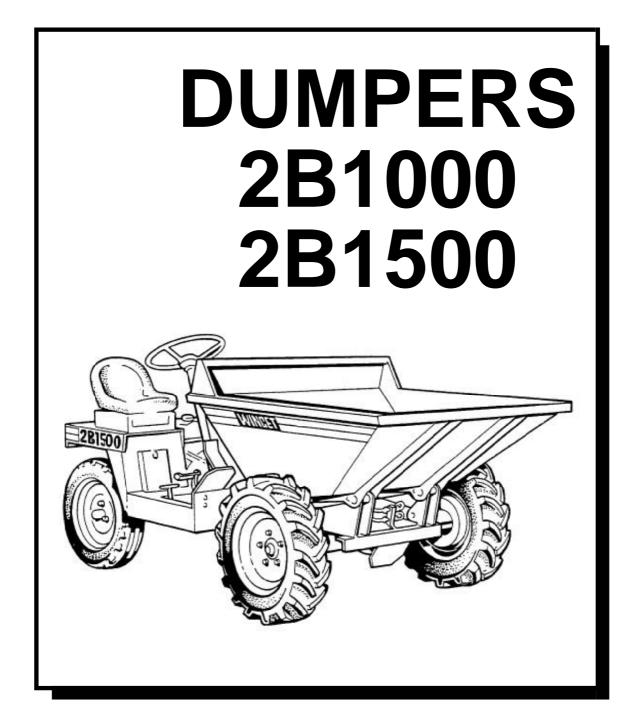


# OPERATORS HANDBOOK & PARTS

Manual MAN523 April 2019

Up to Serial Nos 2B1000 - 0646 2B1500 - 1213





The contents of this Handbook, although correct at the time of publication, may be subject to alteration by the Manufacturers without notice.

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

# $\mathbf{II}$

# INTRODUCTION

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# **PARTS**

This section, at the rear of the book, is a pictorial parts catalogue.

# THE HANDBOOK

WARNING The Operator must read all the Handbook and fully understand its contents before attempting to operate the machine.

THE HANDBOOK MUST NOT BE REMOVED FROM THE MACHINE.

The Handbook should be kept clean and in good condition. Additional copies of the Handbook can be obtained from your Distributor.

The contents of this Operators Handbook are designed as a guide to the machine's controls, operation, working capacities and maintenance. It is not a training manual.

Only trained operators should use this machine. Consult your Distributor for details of authorised training courses.

In this Handbook are **WARNING** notes. They are preceded by this symbol:





WARNING These notes are used to indicate that the procedure being described in the Handbook must be followed to avoid serious injury or death to yourself or others; or damage to the machine.

> The warnings are also used to protect the machine from unsafe servicing practices.

Pay particular attention to the warnings given in the Handbook.

If you have any doubts about any aspect of the machine's capability or servicing procedures, you must consult the manufacturer.

# MACHINE IDENTIFICATION

Please record the model and serial numbers of your machine in the spaces provided and quote them when ordering parts.

Model - Year	Front axle serial no.
Dumper serial no.	Ram, tipping, L.H.
Key, start	Ram, tipping, R.H.
Engine serial no.	Front tyre size
Gearbox serial no.	Rear tyre size

### WARRANTY TERMS & CONDITIONS

The Manufacturer assures you that if any part of the machine becomes defective due to faulty manufacture or materials within 12 months from the date of purchase, the part will be repaired or replaced under warranty free of charge by any authorised Winget Distributor. Warranty repairs *must* be carried out by Winget Distributors.

This Warranty is given to the first owner and may be transferred to subsequent owners for the balance of the Warranty period.

The Manufacturer's liability only extends to the costs of repair or replacement of the faulty parts and necessary labour charges involved in the repairs. The Company accepts no liability for any consequential loss, damage or injury, resulting directly or indirectly from any defect in the goods.

Items not covered by Warranty and considered to be the customer's responsibility include normal maintenance services; replacement of service items and consumables; replacement required due to abuse, accident, misuse or improper operaton; replacement of wearable items e.g. pins, bushes, brake linings, clutch linings etc.

The Warranty will not apply where the equipment is modified, converted, or used for purposes other than those for which it was designed, unless clearance for the modifications etc. have been granted by the Manufacturer, in writing.

The Pre-Delivery Inspection and Warranty Registration Document must be completed correctly and returned to the Manufacturer within 7 days of sale date. Failure to do so may result in the claim being subsequently rejected.

Tyres and tubes are not covered by Warranty, but are covered by the tyre manufacturer's own warranty system which provides against defects in material or workmanship.

Engines are covered separately by the engine manufacturers, and engine warranty repairs must be handled by the relevant engine manufacturers' distrubutors.

No claim will be considered if other than genuine Winget Limited parts, which must be obtained from Winget Limited via an authorised Distributor, are used to effect a repair, or if lubricants other than those recommended by Winget Limited are used.

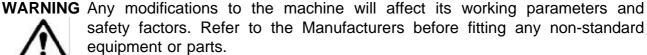
The equipment must be serviced in accordance with the service schedules laid down by Winget Limited. Evidence that these have been complied with may be required before Warranty Claims are reimbursed.

The Manufacturer's policy is one of continuous improvement. Winget Limited reserve the right to change specifications without notice. No responsibility will be accepted for discrepancies which may occur between specification of machines and the descriptions contained in publications.

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



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

# **TRAINING**

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



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

It is strongly recommended that operators read the H.S.E. publication "Safe with Small Dumpers" which is available from government bookshops (HMSO) or from other bookshops quoting the following number ISBN 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 gradients that exceed 10% (1 in 10), or across gradients that exceed 10% (1 in 10).

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

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

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

ALWAYS drive forwards up gradients when loaded.

ALWAYS reverse down gradients when loaded.

ALWAYS keep the load facing uphill.

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

NEVER attempt to turn on a gradient

NEVER tow up, down or across a gradient.

NEVER operate high discharge or rotating skips on gradients.

# **HYDRAULICS**

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

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

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

NEVER leave the machine unattended with pressure in the system.

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

ALWAYS practise the greatest cleanliness in maintaining hydraulic components.

# **SERVICING**

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



ALWAYS conform to service schedules except where:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

# **DECALS**

# Attached to the dumper are several pictorial warning decals

Ensure that all decals fitted to the dumper are legible. If any should become detached, they must be replaced immediately.

For detailed information on how to safely use the items described by the decals, see the "Safe working, Operation and Servicing" sections of this Handbook.

# Brief descriptions of the decals are as follows:

Fuel tank filling point.



Wear ear protection.



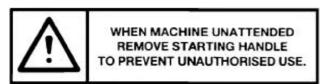
Hydraulic oil filling point.



The Battery Isolator is situated close to this decal.



Remove starting handle.



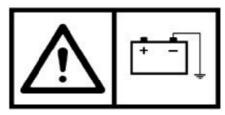
Read Operators Handbook, or Operators Handbook storage place.



Attach lifting hooks to this eye.



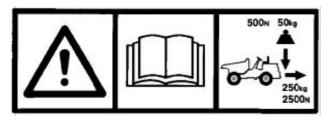
The battery negative terminal is connected to earth.



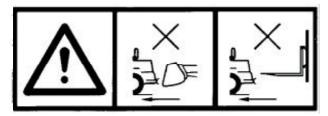
CE (EEC machines only).



Decal indicates the maximum loads that the dumper towbar can carry and pull.



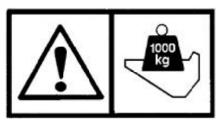
Forks and buckets are not to be used to push or lift the dumper.



The figure shown on this decal is the maximum load for the skip onto which this decal is fastened.



The figure shown on this decal is the maximum load for the skip onto which this decal is fastened.



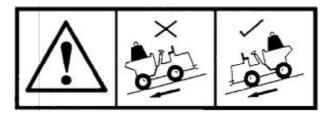
Beware of electrical hazards.



These surfaces may be hot.



When loaded, always REVERSE down gradients.



ISO Skip Support, when used, is pinned around the tipping ram rod to prevent the ram from closing.



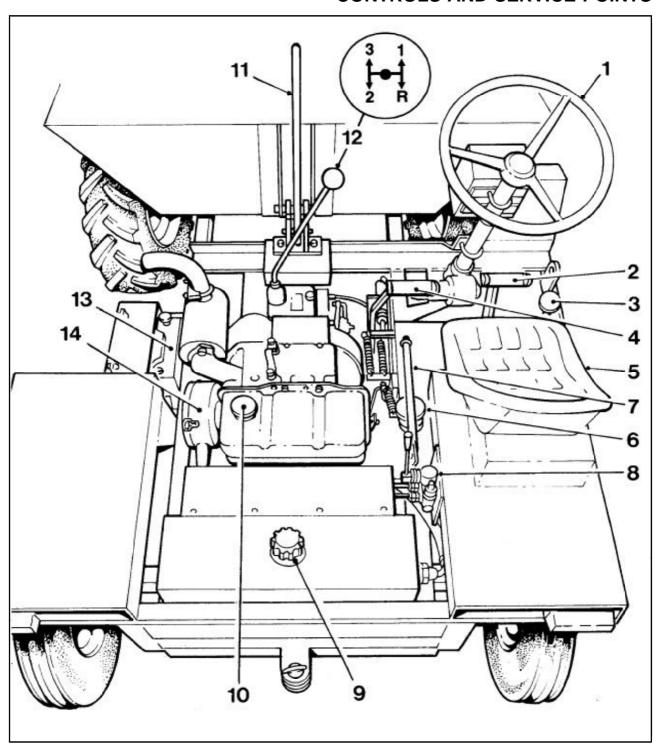
Wear eye protection.



**OPERATION** 

# 2.1

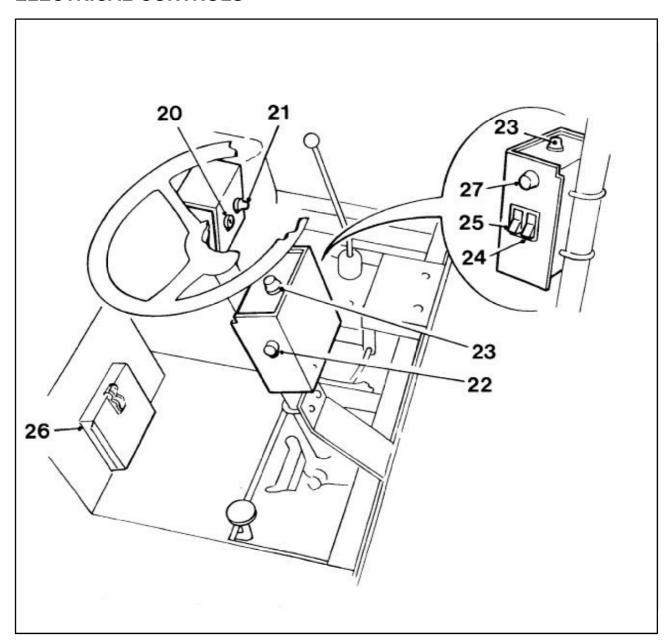
# **CONTROLS AND SERVICE POINTS**



- 1 Steering wheel
- 2 Brake
- 3 Accelerator
- 4 Clutch
- 5 Seat
- **6** Brake oil reservoir (Hydraulic brakes only)
- 7 Parking brake

- 8 Skip control, tip/return (hydraulic tipping)
- 9 Hydraulic oil filler cap
- 10 Fuel filler cap
- 11 Skip release lever (manual tipping)
- 12 Gear lever
- 13 Battery
- 14 Engine air cleaner

# **ELECTRICAL CONTROLS**



20 Key start switch

21 Warning light: battery charging

22 Switch: direction indicators

23 Warning light: direction indicators

24 Switch: hazard warning lights25 Switch: Side and head lights

26 Document case

**27** Horn

**OPERATION** 

# DRIVING THE DUMPER

# Safety warnings

Read also the "Safe Working" Section before operating the dumper.

WARNING ALWAYS wear correctly fitting



protective clothing. Loose or baggy clothing can be extremely dangerous when operating or servicing machinery.

Only skilled personnel are permitted to work with this machine.

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

# Starting the engine

**WARNING** *NEVER* use ether type starting aids.



ALWAYS stop the engine if the battery charge warning light (where fitted) fails to cancel.

ALWAYS stop the engine if warning lights illuminate. Detect the fault before continuing.

DO NOT PROCEED IF A FAULT IS EVIDENT

NEVER attempt to start the dumper by pushing or towing.

NEVER operate controls unless you are seated on the machine, and ALWAYS remain in the driving seat whenever the engine is running.

# Running-in a new engine

While a gradual 'running-in' of a new engine is not necessary, is **EXTREMELY IMPORTANT** that the following instructions should be followed very closely during the first fifty hours of operation.

- **1** Avoid overloading the engine.
- **2** Use the lower gears when operating with heavy loads, and avoid continuous operation at constant engine speeds.
- 3 Check the instruments frequently, and keep the oil compartments and the reservoirs filled to hydraulic their recommended levels.
- **4** Do not operate the engine at high speeds without a load.
- 5 Do not allow the engine to run at idle speeds for long periods; this may cause bore glazing and an increase in oil consumption.

Operating in this way throughout the machine's life will prove beneficial to its overall performance and efficiency.

# Pre-start Checks



**WARNING** NEVER commence work with the machine until the checks detailed in "Every 10 operating hours, or daily" have been carried out. (See Service Schedule).

Check that all controls are clean and not slippery, and that they all function correctly.

Check that the areas around pivot points, rams and linkages are all free from mud, ice and debris.

Check that all grab handles, steps and platforms are clean and dry.

Check the machine for any obvious damage or faults.

Check that all decals can be clearly read.

2.4 **OPERATION** 

# DRIVING THE DUMPER

# Petter PH1 engines (UP TO 1988)

# To start Petter PH1 engines:

Ensure the parking brake is in the raised "ON" position.

Ensure gear lever is in the neutral position.

WARNING If a starting handle is to be



used, see that the shaft is greased. Make sure the starting handle can be freely withdrawn.

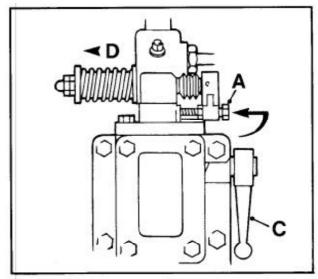
On the engine, lift the overload stop (A) and move the fuel pump rack (D) in the direction of the arrow to the fully open position.

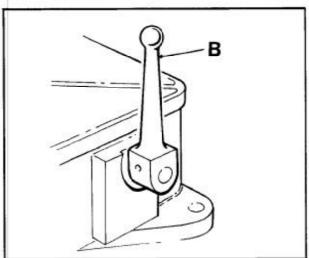
Operate the fuel pump priming lever (C) approximately six times. (This unnecessary with a warm engine.)

Lift the decompression lever (B) to the vertical position. Crank the engine as fast as possible or use the starter motor. When the engine is turning at a good speed, knock down the lever (B). The engine should now fire.

If the engine does not fire, lift the decompressor lever (B) and slowly turn the engine a few times before attempting to start again. Do not operate the starter motor for more than 20 seconds at a time

Note: If it is necessary to bleed and prime the fuel system, consult the PH1 Engine Operators Handbook.





# To stop PH1 engines:



WARNING NEVER stop the engine by using the decompressor lever. This will lead to damaged valve seats and cylinder head joints.

> DO NOT stop the engine by allowing the tank to run dry. This will make it necessary to bleed and prime the system.

DO NOT remove or alter the setting of the overload stop.

It is advisable to run on light load for a few minutes before stopping

Raise the priming lever (C) to the vertical position, or move and hold the fuel pump rack (D) away from the fly wheel until the engine stops.

OPERATION 2.5

# DRIVING THE DUMPER

# Lister ST1 engines (UP TO 1988)

# To hand start Lister ST1 engines:

Ensure the parking brake is in the raised "ON" position.

Ensure gear lever is in the neutral position.

Move the decompressor lever over towards the flywheel **(F)**.

Pull the control lever outwards and allow it to rotate anticlockwise so that it abuts against the top stop and is in a vertical position **(G)**.

**IMPORTANT:** Ensure that the starting handle is of the correct type and is fully servicable. Lightly oil the end of the starting shaft and the starting handle.

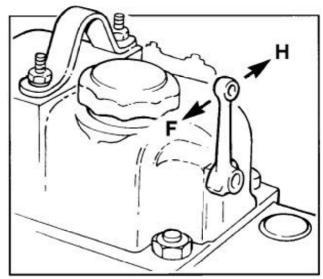
Check the arrow on the handle for correct rotation, then turn the handle in the opposite direction to that required to start engine. This is done in order to check that the clutch pin will disengage from the keyway, and does not bind on the starting shaft.

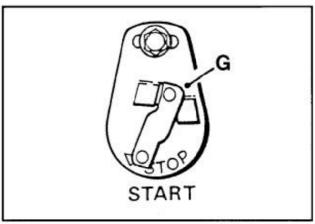
ENSURE THERE ARE NO BURRS ON THE SHAFT.

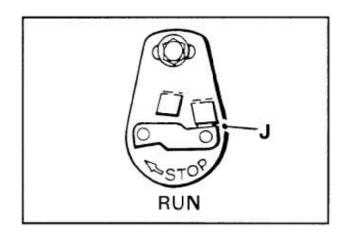
**IMPORTANT**: With the starting handle, turn the engine slowly from 3 to 20 turns according to the temperature and period of standing unused, in order to prime the combustion chamber and the lubricating oil system.

Turning the starting handle in the correct rotation, crank the engine really fast and when maximum cranking speed is reached move the decompressor lever away from the flywheel (H). Retain a firm grip on the starting handle and continue to crank until the engine fires. Remove the starting handle from the shaft.

WARNING It is dangerous to allow the handle to rotate on the running shaft.







**IMPORTANT**: As soon as the engine reaches normal speed, turn the control lever clockwise to the horizontal position so that it abuts the horizontal stop (J).

2.6 OPERATION

# DRIVING THE DUMPER

# To key (Electric) start Lister ST1 engines:

Ensure the parking brake is in the raised "ON" position.

Ensure gear lever is in the neutral position.

Depress and hold down the accelerator.

Pull the control lever outwards and allow it to rotate anticlockwise so that it abuts against the top stop and is in a vertical position **(G)**.

Turn the starter key and release immediately the engine fires. Do not motor the engine continuously for more than 20 seconds

Release the accelerator pedal.

**IMPORTANT:** As soon as the engine reaches normal speed, turn the control lever clockwise to the horizontal position so that it abuts the horizontal stop (J).

# Cold Starting Below -10°C (14°F)

A cup and plunger is fitted to the combustion air intake port on ST engines. Operate as follows:

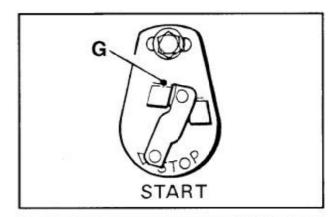
Withdraw the plunger (K) and fill one third of the cup (L) with the same type of lubricating oil as used in the engine.

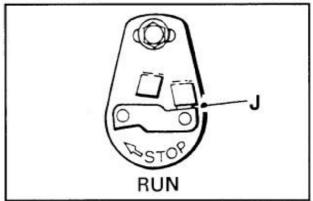
Replace the plunger and inject the oil just before starting the engine.

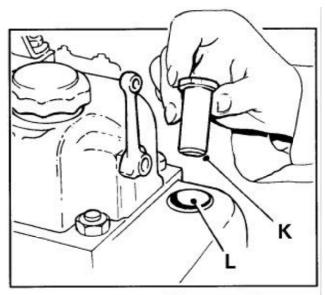
The devise must not be used more than three times in succession. When hand starting, turn the engine 20 revolutions with the fuel on after injecting the oil, before attempting to start.

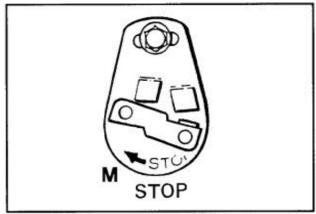
# To stop engine

Turn the control lever clockwise in the direction of the arrow **(M)** and hold it until the engine stops.









# TS/TR1 engines

# **Description**

**A** Dipstick

**B** Lubricating oil filler

**C** Engine control

**D** Decompressor lever

E Fuel tank

F Cold start oil cup



The engine is fitted with an automatic excess fuel device which becomes operative, ready for the next start, when the engine is stopped. If the engine stops other than by the operation of the engine control, the control (G) must be turned anti-clockwise to the 'STOP' position and released before the device can operate. As the engine runs up to speed the excess fuel device will automatically reset to the normal running position.

# Cold Starting Below -10°C (14°F)

A cup and plunger is normally fitted to the combustion air intake port on TR and TS engines.

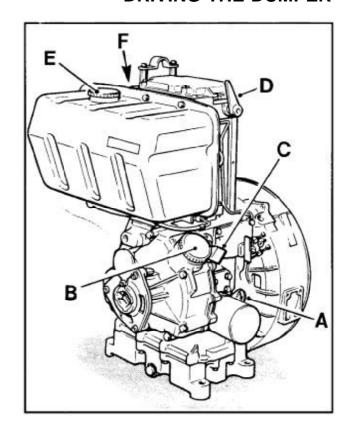
With the fuel turned on, turn the engine for up to 20 revolutions to prime the fuel and lubrication systems.

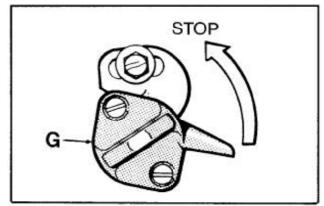
Withdraw the plunger (H) and fill one third of the cup (J) with the same type of lubricating oil as used in the engine.

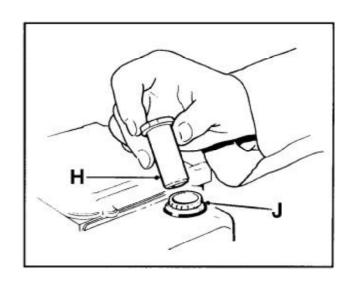
Replace the plunger and inject the oil just before starting the engine.



**WARNING** The device must not be used more than three times in succession during the same attempt to start the engine.







# Hand starting TS/TR1 engines

Ensure the parking brake is in the raised "ON" position.

Ensure gear lever is in the neutral position.

Always use the correct starting handle which has been designed for the engine.

Ensure there are no burrs on the handle.

Before attempting to use the handle, clean and lightly oil that part of it which fits onto the engine.

WARNING Do not attempt to use a handle if it is damaged in any way.

Turn the engine control lever anti-clockwise to the "STOP" position (L) and release it.

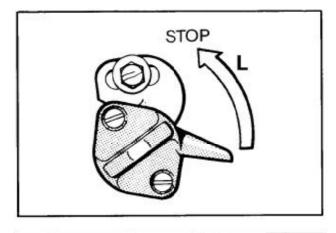
Move the decompressor lever towards the flywheel **(M)**.

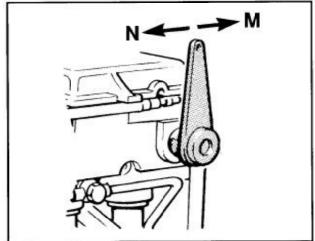
Insert the correct handle into the starting housing.

Turn the engine slowly for up to 20 turns to prime the combustion chamber and lubricating oil system.

Maintaining a firm grip on the starting handle, crank the engine really fast and when sufficient speed is obtained move the decompressor lever away from the fly wheel **(N)** and continue to crank until the engine fires.

Retain a firm grip on the handle and remove it from the engine.





# Key Starting TS/TR1 engines

Ensure the parking brake is in the raised "ON" position.

Ensure the gear lever is in the neutral position.

Fully depress and hold down both clutch and accelerator pedals.

Note: (From January 1995 on **UK/EEC** specification dumpers) A starter inhibitor switch has been fitted to the clutch pedal. This causes the starter to be 'dead' until the clutch pedal is fully depressed.

Dumpers that are not to UK/EEC specification do not have this feature.

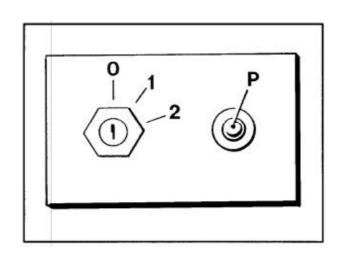
Check that the decompressor lever, (if fitted) is away (N) from the flywheel.

Turn the engine control lever anti-clockwise to the "STOP" position (L) and release it.

Turn the start key clockwise to position (1), the battery charging light (P) will illuminate.

Turn the key and hold at the "START" position (2) until the engine fires and then release it immediately.

If the engine fails to start within 20 seconds, release the key and attempt to restart after allowing sufficient time for all moving parts to stop.



# Stopping the engine



**WARNING** *Never stop the engine by* operating the decompressor lever or valve damage may occur

> Key start engines: Turning the starter key to the "OFF" (0) position will not stop the engine unless an optional fuel control solenoid is fitted.

It is advisable to run on light load for a few minutes before stopping

Turn the engine control anti-clockwise to the "STOP" position (L) and hold it there until the engine comes to rest.

Key start engines: After the engine has stopped, turn the starter key to the "OFF" (0) position.

2.10 OPERATION

# DRIVING THE DUMPER

### **Gradients**

# IMPORTANT: Read the notes in "Safe Working" and also remember the following:

Slippery or loose surface conditions can adversely affect safe machine operation, particularly on gradients.

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

NEVER park the machine on a gradient.

NEVER attempt to turn on, or drive across, a gradient.

ALWAYS drive forwards up gradients when loaded.

ALWAYS reverse down gradients when loaded.

NEVER tow up or down gradients.

NEVER operate on a gradient which exceeds 10% (1 in 10), or across gradients which exceed 10% (1 in 10). This should be reduced where surfaces are wet or unstable.

*NEVER* operate high discharge or rotating skip options on gradients.

# **Braking**

# Dumpers with hydraulically operated brakes

The brake pedal operates a hydraulic master cylinder that supplies oil to brakes within the front axle. There are no brakes on the rear axle.

The handbrake operates a caliper that acts upon a disc mounted on the transmission.

# Dumpers with rod operated drum brakes

The brake pedal and handbrake both operate expanding drum brakes within the front axle through a system of rods and linkages.

There are no brakes on the rear axle.

# **Engaging gear lever**

When changing gear, always depress the clutch pedal before moving the gear lever from one gear to another.

# Stopping the dumper

**IMPORTANT:** Never make unnecessary 'crash' stops when travelling at speed, especially in forward direction.

Release accelerator and brake to a halt progressively.

Select neutral gear.

Apply parking brake when stationary.

Stop the engine. Turn the starter key to the 'OFF' position, and remove the key.

# Leaving the dumper

Ensure the machine is parked on firm, level ground. Do not park on a gradient.

Check that the parking brake is applied.

Ensure that the skip is fully lowered.

With the engine stopped, operate the hydraulic lever (where fitted) fully in each direction several times to 'dump' hydraulic pressure from the system.

Remove starter key (where fitted) from switch.

Electric start dumpers: If unattended for some time, remove earth cable from battery, or activate the Battery Isolator, (where fitted).

# OPERATION 2.11

# DRIVING THE DUMPER

# Skip operation

# Loading

Never remain on the dumper when using excavators or loaders to load the skip. Stop the engine, apply the parking brake, dismount, and stand well clear.

Ensure that the load is evenly distributed in the skip. Never carry loads in such a manner as to affect the forward vision.

Never exceed the rated payload. The weights of all loads above skip water level must be checked.

# **Tipping**

Only discharge on level ground.

It is recommended that only free flowing materials be tipped. *Take extra care when tipping non free running loads*.

# Release lever (Gravity tipping)

To tip the skip:

Pull back the Release Lever. The skip will tilt forwards under its own weight.

To return the skip:

Pull the skip back manually into the carrying position. Ensure that it is locked into the skip catch.

# Skip control lever (Hydraulic tipping)

The control lever has three positions; they are, Tip(or Dump), Hold and Return

To tip the skip:

Move the lever to DUMP.

To return the skip:

Move the lever to RETURN.

If the lever is released when in the DUMP or RETURN position, it will automatically return to the central HOLD position and movement of the skip will stop. In this way, the speed at which the skip is tipped can be finely controlled.

# Rotating skips (where fitted)

After releasing the turntable locking catch, rotate the skip manually, then tip by using the hydraulic control lever.

When returned to the carrying position, ensure that the turntable catch is locked.

# Towing with the dumper

Dumpers are not designed as towing vehicles, however, trailers may be towed providing that:

- 1 The combined weight of the trailer and its load does not exceed the specified maximum dumper drawbar pull and dumper drawbar load (see specifications").
- **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.

# Towing the dumper

The dumper should only be towed if recovery is needed of a broken-down unit, or to free a "bogged down" machine.

Always ensure that ropes, chains, etc. used to tow the dumper have sufficient safe working load capability.

When towing the dumper, always ensure that the speed is kept to an absolute minimum.

Always tow the dumper with the gear lever in neutral.

Never attempt to start the dumper by pushing or towing.

SERVICE 3.1

# SAFE WORKING

WARNING Read the safety notes in



"Safe Working", Section 1 of this book.

Also note the following:

# Safe handling of oils, filters and filter elements

WARNING Do not allow oils to come into



regular contact with skin. This can lead to serious skin diseases. Medical evidence suggests they may include skin cancer.

Always wear protective gloves when handling oils for topping up, draining, or refilling.

Dispose of waste oil 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.

The materials used in the manufacture and treatment of some filters and elements may cause irritation or discomfort if they come into contact with the eyes or mouth and they may give off toxic gases if they are burnt.

After handling any filters or oils the users hands should be thoroughly washed, particularly before eating.

Used filter elements contain some of the filtered oil and should be handled and disposed of with care.

3.2 SERVICE

# SAFE WORKING

# Rotary skip support bracket (WHERE FITTED)

The "Rotary skip support Bracket" MUST ONLY be used when the tipping ram is to be removed.

# To install the "Skip support bracket":

Raise the skip using the hydraulic control lever.

Remove clip/pin (A) from pin (D).

Swing down the bracket **(B)** and locate it on pin **(C)**. (It may be necessary to adjust the height of the skip before the hole will align with the pin.)

Re-install clip/pin (A) on pin (C).

Do not operate the hydraulic control lever with the Skip Support Bracket in place.

# C A

# ISO Skip Support (WHERE SUPPLIED)

The "ISO Skip Support" MUST be used whenever working under a raised skip.

# To install the "ISO Skip Support":

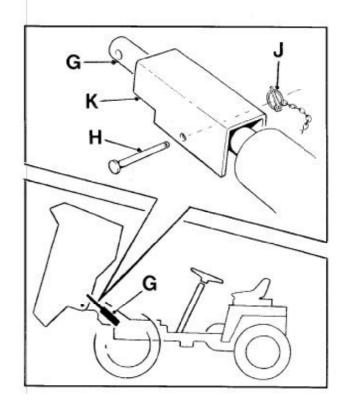
Release the "Support" **(K)** from its storage position on the rotary frame.

Raise the skip fully using the hydraulic control lever.

Place the "Support" **(K)** around the rod of the tipping ram **(G)**.

Insert the pin **(H)** and secure it with clip/pin **(J)**.

Do not operate the hydraulic control lever with the "ISO Skip Support" in place.



SERVICE 3.3

# SERVICE SCHEDULE

**IMPORTANT:** The engine will require additional services or adjustments in addition to those listed below (See the appropriate Engine Operator's handbook or Workshop Manual).

**WARNING** Warning lights and indicators REQUIRE IMMEDIATE ACTION.



SERVICE OPERATION	REFERENCE	PAGE
-------------------	-----------	------

# Every 10 operating hours, or daily, the above and the following

Engine oil leve	Engine	3.5
Fuel tank level	Engine	3.8
Air cleane	Engine	3.8
Wheel nut tightness	Wheels & tyres	3.11
Axle oil seals	Front axle	3.10
Brake oil reservoir	Brake system	3.18
Hydraulic oil level & hose condition	Hydraulic system	3.16

# Every 50 operating hours, or weekly, the above and the following

Axle nuts	Front axle	3.10
Front axle oil level	Front axle	3.10
Tyre pressures & condition	Wheels & tyres	3.11
Battery electrolyte level	Battery	3.12
Grease nipples	Greasing	3.20
Gearbox oil levels	Gearbox	3.9
Steering box oil level	Steering box	3.13
Parking brake Check function of the parking brake and ad	ljust if necessary.	
Propeller shaft Tighten securing nuts.		
Brake pedal travel		
Check the action of the brake pedal; it should have a short travel and firm		
action. If travel is excessive, or the action spongy, have the brakes serviced by your distributor.		

# First 100 operating hours

Hydraulic oil filter	Hydraulic system	3.17
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3.4 SERVICE

# SERVICE SCHEDULE

SERVICE OPERATION	REFERENCE	PAGE
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# Every 125 operating hours, the above and the following

Air cleaner element	Engine	3.8
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# Every 250 operating hours, the above and the following

Engine oil and filter	Engine	3.6
Fuel filter	Engine	3.7

# Every 500 operating hours, the above and the following

Air cleaner element	Engine	3.8
Fuel filter	Engine	3.7
Frame assembly bolts	Check all structral nuts & bolts for tightness.	

# Every 1000 operating hours, the above and the following

Hydraulic oil & filter	Hydraulic system	3.17
Gearbox oil change	Gearbox	3.9
Front axle oil change	Front axle	3.10

# Every 2000 operating hours, or 2 years, the above and the following

Brake system overhaul	Braking system	3.18
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### Extra services

# Dirty working conditions

Increase the frequency of all services during extremes of dirt, heat and cold, especially those relating to clean air, cooling efficiency, lubrication and machine cleanliness.

# Laying-up protection

When a machine is to remain idle, remove the battery to the workshop. Seal all openings: air intake, exhaust breathers. Grease bright parts and protect rubber components from direct sunlight. Fill the fuel tank, check the tyre pressures and exhaust any pressure from the hydraulic system.

**SERVICE** 

# **Engines fitted in dumpers**

Lister ST1 and Petter PH1 Up to 1985:

1985 to 1989: Lister-Petter PH1

1985 to 1989: Lister-Petter TS1

Note: from 1989 the TS1 has been offered as an

option

1989 to date: Lister-Petter TR1

# **IMPORTANT**

To service the following engines,

Lister ST1, Petter PH1

Please refer to relevent Engine Operator's Handbook or Workshop Manual.

# Lister-Petter TS/TR1

These engines will require additional services and adjustments in addition to those quoted in this handbook. Please the refer also relevent Engine to Operator's Handbook or Workshop Manual.

# **Engine lubrication oil**

For engine oil grades and oil change periods when operating in temperatures above 30°C, see "Engine Handbook".



**WARNING** Lubrication oil cleanliness is vital for the successful operation of your engine. The oil should be stored under the cleanest possible conditions. When changing or topping-up oil, use only clean receptacles.

> Always wear protective gloves when handling oils for topping up, draining, or refilling.

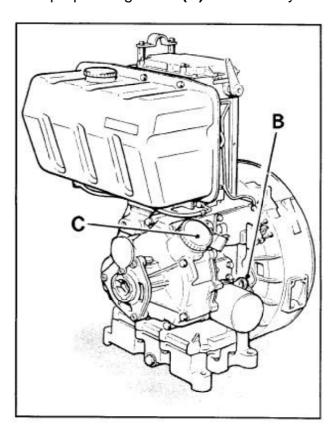
Oils and fuels can cause skin irritation. Wear suitable protective clothing to prevent skin contact.

After handling oils the users hands should be thoroughly washed, particularly before eating.

# Every 10 operating hours, or daily

# Check lubrication oil level

Check the oil level with the dipstick (B). Top up through filler (C) if necessary.



3.6 SERVICE

# **ENGINE**

# **Every 250 hours**

# Drain and refill the oil sump as follows:

If possible run the engine immediately before draining the oil.

Place a suitable container under the drain plug. Remove the drain plug (D) and drain oil.

Clean and coat the threads of the drain plug with an appropriate sealant.

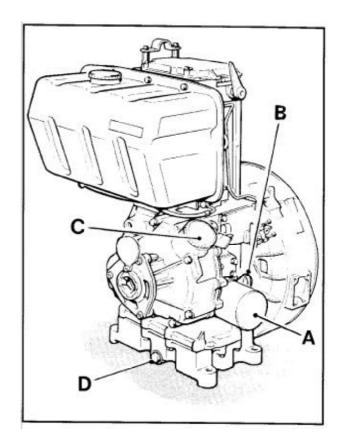
Replace the drain plug **(D)** taking care not to overtighten it.

Fill the sump through the oil filler **(C)** to the top mark on the dipstick **(B)**.

Start the engine, run it for a few minutes and check the drain plug does not leak.

Stop the engine, allow the oil to settle and check the level on the dipstick.

Add more oil if necessary.



# **Every 250 hours**

# Oil filter

Change oil filter element as follows:

Using a suitable strap wrench, unscrew and remove the old filter (A).

# Do not attempt to clean the old filter! Dispose of it safely.

Thoroughly clean the crankcase filter housing face.

Apply a small amount of clean engine oil to the filter sealing joint.

# Do not use a strap wrench to fit the new element.

Screw on the new filter by hand, until the sealing joint is just touching the crankcase and then tighten a further half turn.

Run the engine and check for any oil leaks.

Stop the engine, allow the oil to settle and check the level on the dipstick **(B)**.

Add more oil if necessary.

Do not check oil level until the engine has been stopped for 2 minutes.

Remove and clean dipstick then check that the oil is at the full mark. If level is low, top up through the filler to the full mark with clean oil of the correct grade. DO NOT OVERFILL.

For correct grade of engine oil, see "Specifications".

SERVICE 3.7

**ENGINE** 

# **Every 250 hours**

# **Fuel filter**

Change the fuel filter element if the fuel being used is not perfectly clean (see below).

# **Every 500 hours**

# **Fuel filter**

Change fuel filter element as follows:

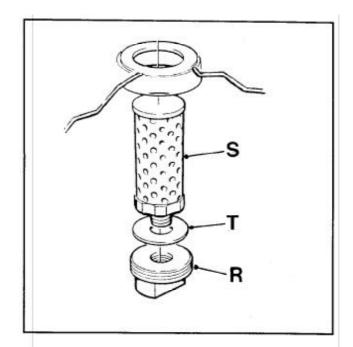
Remove the retaining plug (R).

Remove the old element **(S)** and joint **(T)**.

Fit new element and new joint.

Replace and tighten the retaining plug (R).

Prime the system.



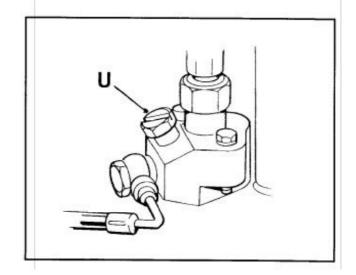
# Priming the fuel system

Prime the system as follows:

Fill the fuel tank

Move the engine control lever to the RUN position.

Vent fuel at each pump in turn through the bleed screw **(U)** until a full air free flow of fuel is obtained.



3.8 SERVICE

# **ENGINE**

# Every 10 operating hours, or daily

# Fuel tank

Fill the fuel tank at the end of each day to reduce overnight condensation within the tank.

WARNING Never mix gasoline or any



other fuel mixes with diesel fuel because of increased fire or explosion risks.

Never remove the filler cap, or refuel, with the engine running.

Never smoke when refilling the tank.

### To fill the tank:

Stop the engine.

Clean the area around the filler cap (Y).

Remove the cap.

Fill the tank. Do not fill the tank to capacity. Allow room for expansion, and wipe up spilt fuel immediately, otherwise paintwork will be damaged.

Replace cap.

# Every 10 operating hours, or daily

# Air cleaner: clean/replace

Clean or replace the air cleaner (X) element under very dusty conditions.

Access the element by unclipping the plastic cover .

# Every 125 operating hours

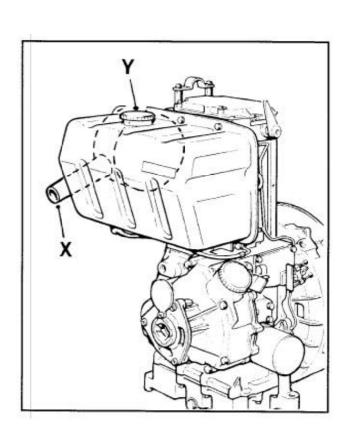
# Air cleaner: check

Check air cleaner element. Replace if necessary.

# **Every 500 operating hours**

# Air cleaner: replace

Fit new air cleaner element



SERVICE 3.9

**GEARBOX** 

# Safe handling of oils

WARNING Do not allow oils to come into



regular contact with skin. This can lead to serious skin diseases. Medical evidence suggests they may include skin cancer.

Always wear protective gloves when handling oils for topping up, draining, or refilling.

Dispose of waste oil 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.

# Every 50 operating hours, or weekly

# Check gearbox oil level

Check the gearbox oil level when the machine has stood for 2 minutes.

Clean the area around the dipstick/filler **(V)** before removing.

Remove the dipstick and check the oil level. Top-up between the two marks **(W)**. *It is most important not to overfill.* 

For the correct type and grade of oil, see "Specifications".

# **Every 1000 operating hours**

# Change gearbox oil

Clean the areas surrounding the dipstick **(V)** and drain plugs **(X)**.

Place a suitable container beneath the drain plug.

**CAUTION:** Before removing the drain plug be sure to stand to one side to avoid the oil that will spill from the hole.

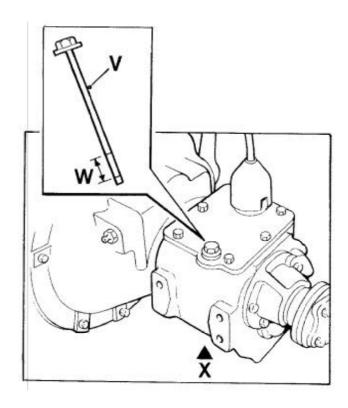
Remove the drain plug (X) and drain the gearbox. (Do not lose its sealing washer)

Replace drain plug with its sealing washer.

Remove the dipstick **(V)** from the filler hole.

Fill with oil. Check that the final level is between the two marks on the dipstick. It is most important not to overfill.

For the correct type and grade of oil, see "Specifications".



3.10 SERVICE

# FRONT AXLE

# Every 10 operating hours, or daily

# Check for leaks

Check for oil leaks around joints and seals.

# Every 50 operating hours, or weekly

# Tighten securing nuts

Tighten axle arm/main case joint securing nuts and half shaft nuts.

# Axle oil level

Do not check the oil level until the machine has stood for 2 minutes.

Clean the area surrounding level plug **(E)** before removing it.

The oil is correct when level with the bottom of the level plug hole.

If the level is low, top-up with clean oil of the correct grade through the filler **(D)**.

Replace plugs.

For the correct type and grade of oil, see "Specifications".

# **Every 1000 operating hours**

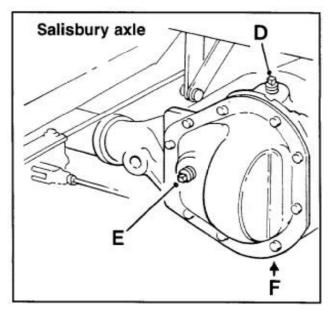
# Axle oil change

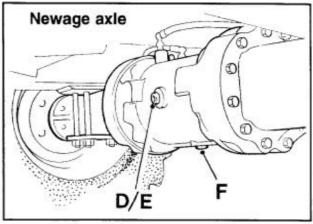
Change the lubrication oil in the front axle as follows:

Clean the area surrounding the filler **(D)**, level **(E)** and drain **(F)** plugs.

Place a suitable container beneath the drain plug.

**CAUTION:** Before removing the plugs be sure to stand to one side to avoid the oil that will spill from the drain hole.





Remove drain plug **(F)** and drain oil from the casing. Replace drain plug.

Refill at the filler plug **(D)** with clean oil of the correct grade.

The level is correct when oil reaches the bottom of the level plug hole (E).

Replace all plugs.

For the correct type and grade of oil, see "Specifications".

SERVICE 3.11

# WHEELS & TYRES

# Every 10 operating hours, or daily

# Wheel nuts

Tighten wheel nuts whenever necessary, every ten hours or daily.

After a wheel change, the nuts should be checked several times a day until they maintain their correct setting.

For wheel nut tightening torque, see "Specifications".

# Every 50 operating hours, or weekly

# Tyre pressures

WARNING ALWAYS ensure that when



adding air to a tyre the area is clear of personnel,

NEVER over-inflate a tyre beyond its specified pressure.

NEVER adjust the tyre pressure 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.

Check the tyre pressures only when the tyres are cold.

For correct pressures see "Specifications".

# Tyre condition

Check the tyres for damage and deterioration.

**SERVICE** 3.12

#### **BATTERY**

#### Safe handling of batteries



WARNING The battery contains a sulphuric acid electrolyte which can cause severe burns and produce explosive gases.

> Wear protective clothing, gloves and goggles when servicing the battery.

Avoid contact with the skin. eyes or clothing. If spilled onto the skin, flush immediately with cold water. If splashed into the eyes, flush immediately with cold water for 15 minutes and get prompt medical attention.

Do not take internally. If accidentally swallowed, call a doctor immediately.

Do not use a naked flame or smoke near the battery. Do not produce sparks with cable clamps when charging the battery or starting the engine with a slave battery.

Always disconnect battery leads, or activate battery isolater where fitted, before carrying out any maintenance to the electrical system.

#### **Every 50 hours**

#### Check battery electrolyte level

The battery is situated beneath a cover on the left-hand side of the dumper.

Ensure that the electrical connections are clean and tight, and coat the terminals with petroleum jelly to protect them from corrosion.

Remove battery filler plugs and check that the electrolyte level is between 6 - 9 mm (0.25 - 0.37 in) above the tops of the separators.

If necessary, top-up with distilled water.

Replace battery filler plugs and tighten securely.

#### Battery removal



**WARNING** If the battery is to be removed from the machine, ensure the following procedure is used.

Switch the engine off.

Remove the starter key from the machine. Ensure all electrical circuits are switched off. Activate the battery isolater, where fitted.

Remove the battery cover and clamp.

Disconnect the earth (-) lead from the battery before removing the positive(+) lead.

Lift the battery from the machine.

**WARNING** When installing the battery,



the positive (+) lead MUST be connected first.

SERVICE 3.13

#### STEERING BOX

## Every 50 operating hours, or weekly

#### Steering box oil level

Check the oil level as follows:

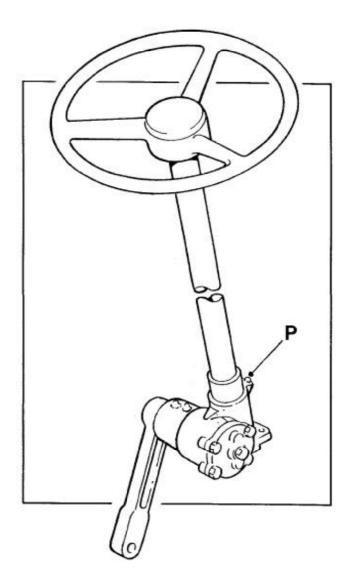
Clean the area around the filler plug **(P)**.

Remove filler plug.

The oil level is correct when it is at the bottom of the hole

Top up if necessary, with the correct grade of oil. (see "Specifications" for oil).

Replace plug (P).



SERVICE 3.14

#### HYDRAULIC SYSTEM

#### **Hydraulic System Safety** (see also "Safe Working" section)



WARNING Do not allow oils to come into regular contact with skin. This can lead to serious skin diseases. Medical evidence suggests they may include skin cancer.

> Always wear protective gloves when handling oils for topping up, draining, or refilling.

Always practise the greatest cleanliness when servicing hydraulic components.

Always clean the areas surround filler points, filters etc., before and after servicing.

Dispose of waste oil 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.

#### **Description of hydraulic system**

The hydraulic system provides power for skip tipping.

#### The main components consist of:

Tank: The tank is filled through a filler/strainer which incorporates an oil level indicator. The filler cap is fitted with a breather. In the bottom of the tank is a suction filter.

**Pump:** The pump is driven directly from the engine

**Filter:** The filter is situated in the bottom of the tank. The oil is drawn from the tank, through the filter to the pump.

**Tipping control valve:** The control valve receives oil from the pump and delivers it to the skip tipping rams. The rate of oil flow to the rams is proportional to the distance that the control valve lever is moved.

If the control lever is held either fully to the left or right after the rams have reached their full stroke, a relief valve opens, allowing the oil to return to the tank.

#### **Dumping hydraulic pressure**



WARNING Always dump all hydraulic pressure from the system before servicing any hydraulic component.

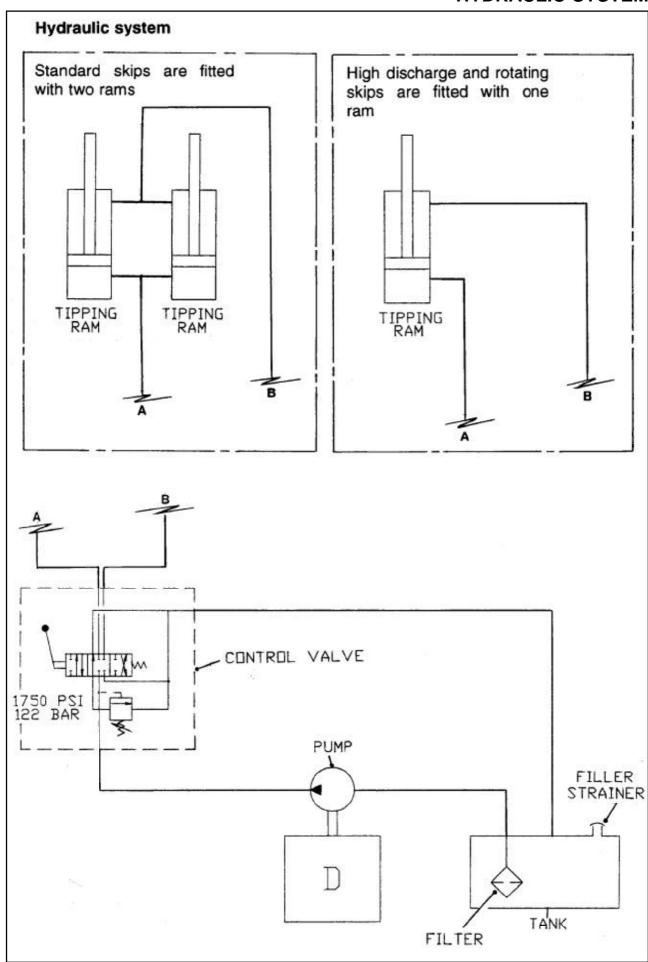
#### To dump pressure:

Stop the engine.

Move the skip control lever several times in each direction.

SERVICE 3.15

#### **HYDRAULIC SYSTEM**



3.16 SERVICE

#### **HYDRAULIC SYSTEM**

#### **Hydraulic System Checks**

If the hydraulic system fails to operate completely, or does so extremely slowly, carry out the following procedure.

Check that the hydraulic tank is full of oil to the correct level. The level is correct when the cone at the base of the filler neck is visible.

Check that the filter has been regularly cleaned in accordance with the maintenance schedule. If not, clean filter.

Check that the hydraulic pressure is correct as follows:

Fit a 2000 lb/in<sup>2</sup> gauge into the hydraulic system at the base of the skip ram.

Operate control lever to tip skip and check the pressure reading on the gauge when ram is fully extended and relief valve is 'blowing'. See "Specifications" for correct pressure

If this procedure does correct the fault, contact your Distributor.

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.

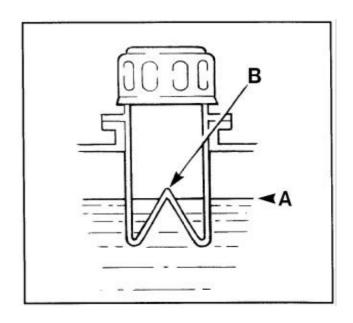
# Every 10 operating hours, or daily

#### Check hydraulic oil level

Do not check oil level before closing the tipping rams, and the engine has been stopped for 2 minutes.

The oil level **(A)** is correct when the cone **(B)** at the base of the filler neck is visible.

Do not overfill; it will cause leakage from the breather!



SERVICE 3.17

#### **HYDRAULIC SYSTEM**

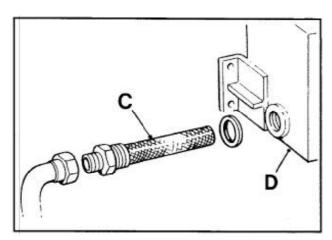
#### First 100 operating hours

#### Clean / change hydraulic oil filter

**WARNING** Before cleaning filter, stop the engine and dump hydraulic pressure.

Place a *clean* suitable container beneath the hydraulic tank filter. Clean the area surrounding the filter.

Carefully unscrew the filter (C) from the tank (D) allowing the oil to drain into the container.



Provided that the oil does not become contaminated it can be used to refill the tank after the filter has been cleaned and replaced

Wash the filter in white spirit and check it for any damage. If the filter cannot be thoroughly cleaned, fit a new one.

Screw the filter back into the tank.

Fill tank with oil. (The oil level **(A)** is correct when the cone **(B)** at the base of the filler neck is visible.) For the correct type of oil, see "Specifications".

Run the engine to circulate the oil.

Operate the hydraulic control to purge any air from the system.

Stop the engine and top up the tank as required.

Check the areas around the filter for leaks.

## Every 1000 operating hours

#### Clean / change hydraulic oil filter

Clean or change the hydraulic oil filter, using the procedure described in the previous "First 100 operating hours".

#### Every 1000 operating hours

#### Change hydraulic oil

Run the engine and operate the hydraulics to warm the oil.

Fully close the tipping rams.

Switch off the engine and dump hydraulic pressure.

Clean the area surrounding the hydraulic tank filter and filler cap.

Place a suitable container on the ground beneath the filter to catch oil.

**CAUTION:** Before removing the filter be sure to stand to one side to avoid the oil that will spill from the hole.

Carefully remove the filter and drain the oil from the tank.

Flush out the tank with clean hydraulic oil, taking extreme care to remove all dirt and foreign matter.

Refit the filter.

Clean the filler cap breather.

Refill the tank with clean oil of the correct type and grade. For the correct type of oil, see "Specifications".

Run the engine to circulate the oil.

Operate the hydraulic control to purge any air from the system.

Stop the engine and top up the tank as required.

Check the area around the filter for leaks.

#### **BRAKING SYSTEM (Hydraulic)**

#### Daily or every 10 hours

#### Brake oil reservoir

Check oil level. Never allow the oil to fall more than 10 mm below top level mark.

#### **Brake System**

The service brakes consist of totally sealed oil immersed multi-plate discs fitted within the front axle. (The rear axle is not fitted with brakes.)

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 and by spongy action of the brake pedal.

## To bleed the system, proceed as follows:

- A Check that all connections are tight and the bleed screws are closed.
- **B** Check that there is sufficient oil in the brake reservoir.

warning Clean the areas surrounding bleed screws and brake reservoir before servicing.

Do not allow the reservoir to empty during the bleeding procedure.

C Attach bleeder tube (1) to the bleed screw (2) on the left hand side of the front axle and immerse the other end of the tube in a small quantity of hydraulic oil contained in a glass jar (3).

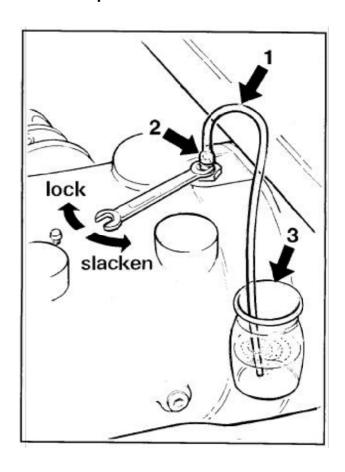
Slacken bleed screw and depress the brake pedal to its full extent. Hold the pedal down and tighten bleed screw. Release pedal and wait 5 to 10 seconds. Slacken the bleed screw and repeat process until the oil pumped into the jar contains no air bubbles. Hold

down the pedal and close the bleed screw.

Remove bleeder tube and release pedal.

- **D** Lock the bleed screw.
- F Top up brake reservoir.
- **G** Apply normal working load on brake pedal for two or three minutes and examine the entire system for leaks.

Note: Always ensure that free play of 1 to 2 mm exists between the master cylinder push rod and the piston when the brake pedal is released.



#### **BRAKING SYSTEM (mechanical linkage)**

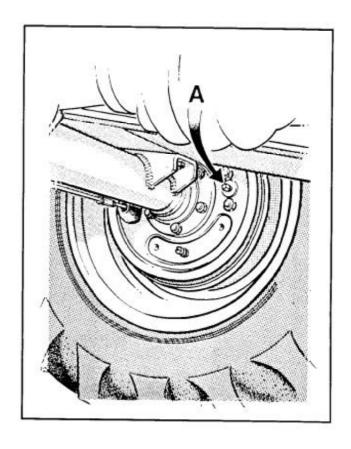
## **Brake adjustment** (Drum brakes)

Ensure the handbrake is fully off.

Pull off the rubber cover from the brake adjuster (A).

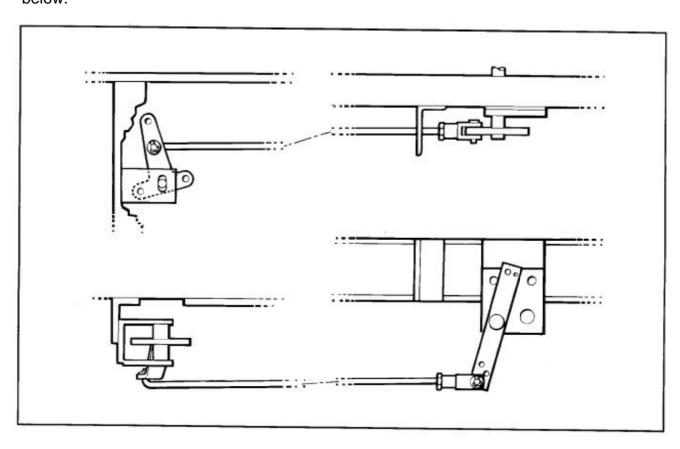
Screw the adjuster clockwise until the brakes are fully on.

Slacken the adjuster anti-clockwise until the wheels turn freely. This will ensure that the shoes are centralised on the drums and that the whole brake lining is used.



#### **IMPORTANT**

When servicing the machine or if the brake rods have been disconnected ensure that they are positioned as shown below.



3.20 SERVICE

#### **GREASING**

## Every 50 operating hours, or weekly

**WARNING** Always use lubricants of the grade specified.

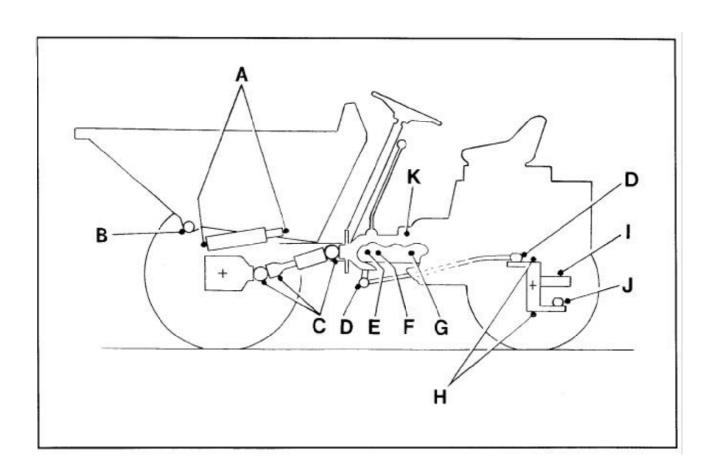
Always lubricate and service BEFORE work commences, and WITHIN the periods specified.

#### **Grease points**

Clean nipples BEFORE and AFTER greasing. Apply the grease gun until clean grease appears.

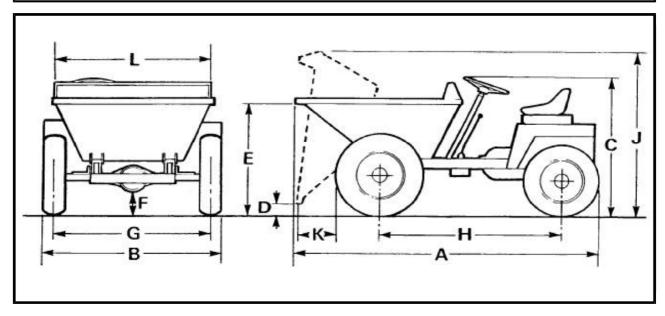
#### Location of grease points

- A Tipping rams (2 on each ram) [No grease points on Rotating or High discharge skip tipping rams]
- **B** Skip pivots (2)
- C Propeller shaft (3)
- **D** Drag link ball joints (2)
- E Brake pedal pivot shaft (2)
- F Clutch pedal pivot shaft (2)
- **G** Accelerator pivot shaft (2)
- **H** King pins (2 on each pin)
- I Axle centre pin (1)
- J Track rod end ball joints (2)
- **K** Gearbox lever pivot (1 each side of gearbox)
- # Clean and lubricate all linkages not fitted with a grease nipple.



## DIMENSIONS

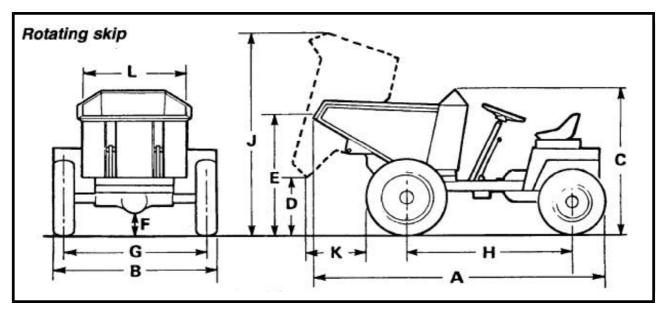
	Earth skips		31000 y tipping	2B1500 Gravity & hydraulic tipping	
		m	ft in	m	ft in
Α	Overall length	2.66	8' 9"	2.85	9' 4"
В	Overall width	1.61	5' 3"	1.64	5' 5"
С	Overall height	1.34	4' 5"	1.37	4' 6"
D	Skip	0.16	0' 6"	0.13	0' 5"
Е	Skip loading height	1.00	3' 3"	1.17	3'10"
F	Ground clearance	0.28	0'11"	0.28	0'11"
G	Track	1.37	4' 6"	1.37	4' 6"
Н	Wheelbase	1.66	5' 5"	1.66	5' 5"
J	Maximum skip height when tipped	1.43	4' 8"	1.47	4'10"
K	Skip discharge forward of tyres	0.37	1' 3"	0.35	1' 2"
L	Skip discharge width	1.42	4' 8"	1.42	4' 8"
	Articulation	0.29	0' 11 <sup>1</sup> / <sub>2</sub> "	0.29	0' 11 <sup>1</sup> / <sub>2</sub> "
	Turning circle	7.25	23' 9"	7.35	24' 1"

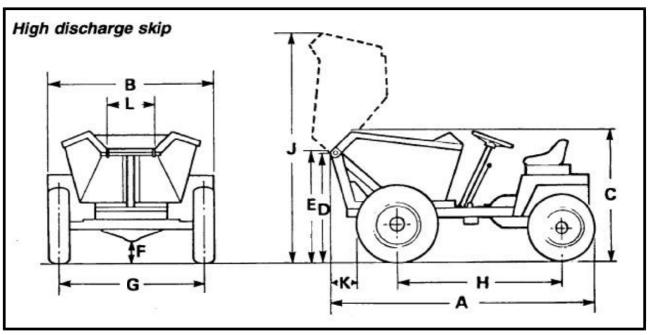


## TECHNICAL INFORMATION

#### **DIMENSIONS**

		2B1500 Rotating skip		2B1 High disc	500 harge skip
		m	ft in	m	ft in
A	Overall length	2.82	9' 3"	2.74	9' 0"
В	Overall width	1.64	5' 5"	1.64	5' 5"
С	Overall height	1.41	4' 7"	1.43	4' 8"
D	Skip discharge height	0.74	2' 4"	1.20	4' 0"
Е	Skip loading height	1.21	4' 0"	1.28	4' 2"
F	Ground clearance	0.28	0'11"	0.28	0'11"
G	Track	1.37	4' 7"	1.37	4' 7"
Н	Wheel base	1.66	5' 5"	1.66	5' 5"
J	Maximum skip height when tipped	2.17	7' 1 <sup>1</sup> / <sub>2</sub> "	2.47	8' 1"
K	Skip discharge forward of tyres	0.53	1' 9"	0.24	0' 9 <sup>1</sup> / <sub>2</sub> "
L	Skip discharge width	1.10	3' 6"	0.51	1' 8"
	Articulation	0.29	0'11 <sup>1</sup> / <sub>2</sub> "	0.29	0'11 <sup>1</sup> / <sub>2</sub> "
	Articulation Turning circle	7.35	24' 1"	7.35	24' 1"





#### **SPECIFICATIONS**

**ENGINES** 

up to 1985 Petter PH1: "See relevent Engine Operator's handbook".

Lister ST: "See relevent Engine Operator's handbook".

1985 to 1989 Lister-Petter PH1: "See relevent Engine Operator's handbook".

1989 to date Lister-Petter TS/TR1: Single cylinder, direct injection, naturally aspirated,

flywheel fan air cooled diesel.

Rotation: Anti-clockwise when looking on the flywheel. **TR1:** Power output: 6.7 kW (9 bhp) @ 1800 rev/min. **TS1:** Power output: 5.4 kW (7.3 bhp) @ 1800 rev/min.

Note: From 1989 to date the Lister-Petter TS1 has been offered as an option.

**ELECTRICS** (Where fitted) 12 volt negative earth.

**FUEL SYSTEM** System: Single element fuel pump.

Fuel specification: BS 2869:1988 Class A2, or BS EN590:1995 Class A1.

Fuel tank capacity: 8.25 litres

Fuel filter: Strainer within fuel tank.
Air cleaner: Renewable element.

**AXLES** Front: Heavy duty with fully floating half shafts.

Rear: Centrally pivoted steer axle (without brakes).

**BRAKES** Service: Front axle braking. Totally sealed oil immersed

multi-plate disc brakes, featuring fully automatic

adjustment for wear.

Parking: Hand operated, ratchet type, actuating disc brake on

transmission.

**TRANSMISSION** Heavy duty constant mesh gearbox, with 3 forward and 1 reverse gear.

**HYDRAULICS** Pump: Gear type.

Control valve: Sectional or monobloc with pressure relief valve.

Filter: Suction strainer mounted within the hydraulic tank.

## TECHNICAL INFORMATION

#### **SPECIFICATIONS**

#### **ROAD SPEEDS**

Petter PH1	1st Gear	2nd Gear	3rd Gear	Reverse
	Km/h (mph)	km/h (mph)	km/h (mph)	km/h (mph)
2B1000 @1650 rev/min	3.55 (2.21)	8.23 (5.11)	15.23 (9.46)	3.96 (2.46)
2B1500 @ 2200 rev/min	3.60 (2.20)	8.4 (5.2)	15.8 (9.7)	4.0 (2.5)

Lister-Petter TS/TR1	1st Gear	2nd Gear	3rd Gear	Reverse
	km/h (mph)	km/h (mph)	km/h (mph)	km/h (mph)
2B1000 @1800 rev/min	3.8 (2.3)	8.4 (5.2)	15.0 (9.3)	4.0 (2.5)
2B1500 @1800 rev/min	4.1 (2.6)	9.1 (5.7)	15.7 (9.8)	4.3 (2.6)

#### **LUBRICANTS AND FLUIDS Total oils (factory fill)**

#### **Capacities**

TS/TR1 Engine Lub. Oil	Rubia H 10W/40	2.7 litres
Note: For engine oils used in temperatures above 30°C consult the Engine I		Handbook.
Gearbox	Rubia B 20W/30	2.0 litres (approx)
Front Axle (Newage)	Universal plant oil or Transmission MP	3.5 litres
(Salisbury)	Gear oil SAE 90 EP	<del>_</del>
Steering box	EP 80W/90	as required
Hydraulic System	Azzola ZS46	27.3 litres (tank)
Braking System	Azzola ZS22	0.3 litres (approx)
General Grease	Multis EP 2	as required
General Lubrication Oil	Rubia B 20W/30	as required

#### **TYRE PRESSURES**

Front	2.35 bar	(35 lb in <sup>2</sup> )
Rear	2.35 bar	(35 lb in <sup>2</sup> )

#### **ADJUSTMENTS**

Wheel nuts torque	200 lbf ft	(271 Nm)	
Engine (See Engine Workshop Manual)			

#### **TYRES**

2B1000:	front	6.0 x 16 traction
	Rear	4.5 x 16 ribbed
2B1500:	front	7.5 x 16 traction
	Rear	5.5/6.00 x 16 ribbed

#### **HYDRAULIC PRESSURES**

120.7 bar (1750psi)	
---------------------	--

#### **DRAWBAR LOAD**

Weight on Drawbar	500 N (50 kg)
Drawbar Pull	2500 N (250 kg)

#### **NOISE LEVELS**

TR1 engine	88 LPA	103 LWA
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#### **SPECIFICATIONS**

#### **PAYLOAD**

MODEL	SKIP TYPE		
	Standard	High discharge	Rotating
2B1000	1000 kg (2205 lbs)	N/A	N/A
2B1500	1500 kg (3308 lbs)	1250 kg (2756 lbs)	1130 kg (2492 lbs)

#### **CAPACITY**, Water level

MODEL		SKIP TYPE				
	Standard	Standard High discharge Rotating				
2B1000	490 litre (17.3 ft <sup>3</sup> )	N/A	N/A			
2B1500	700 litre (24.7 ft <sup>3</sup> )	570 litre (20.1 ft <sup>3</sup> )	480 litre (17.0 ft <sup>3</sup> )			

#### **CAPACITY, Struck & heaped**

MODEL	STANDARD SKIP			
	Struck Heaped			
2B1000	490 litre (17.3 ft <sup>3</sup> )	720 litre (25.4 ft <sup>3</sup> )		
2B1500	700 litre (24.7 ft <sup>3</sup> )	973 litre (34.3 ft <sup>3</sup> )		

#### **MACHINE WEIGHT, Unladen**

MODEL	SKIP TYPE				
	Standard High discharge Rotating				
2B1000					
Gravity tip	800 kg (1764 lbs)	N/A	N/A		
Hydraulic tip	925 kg (2040 lbs)	N/A	N/A		

2B1500			
Gravity tip	825 kg (1819 lbs)	N/A	N/A
Hydraulic tip	950 kg (2094 lbs)	1050 kg (2315 lbs)	1093 kg (2410 lbs)

#### **VIBRATION DECLARATION**

Whole body vibration level  $\mathbf{a_w}$  (m/s<sup>2</sup>) :- 0.7 - 0.8 Typical\*

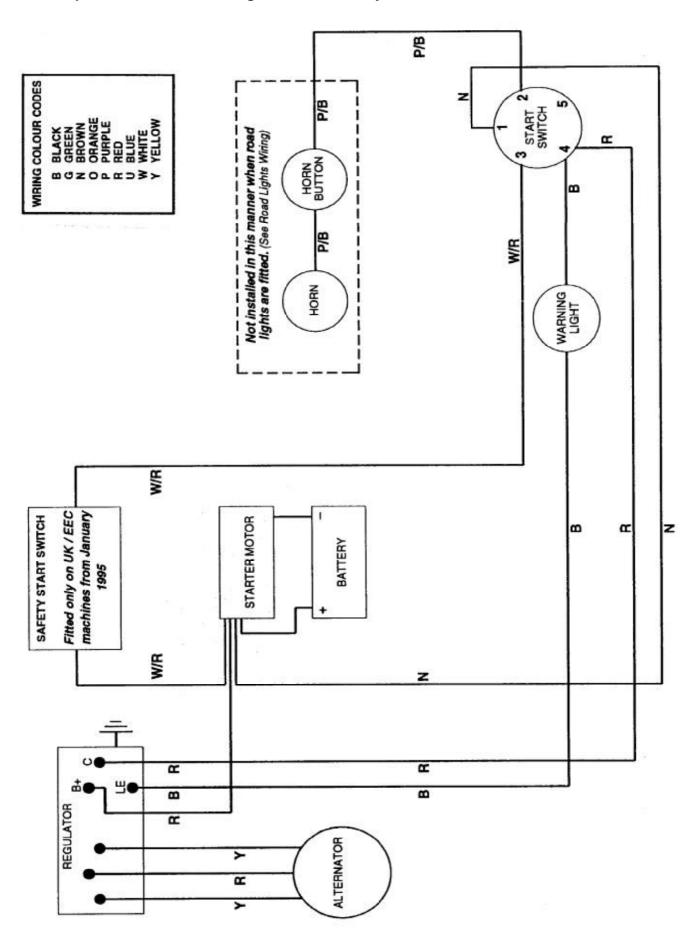
\* **Note:** The absence of a harmonised test code together with the variable conditions under which this equipment may be used allows only representative figures to be quoted.

Hand/arm vibration level  $a_{ha}$  (m/s<sup>2</sup>):- Less than 2.5

(Vibration declaration applicable only to EEC models)

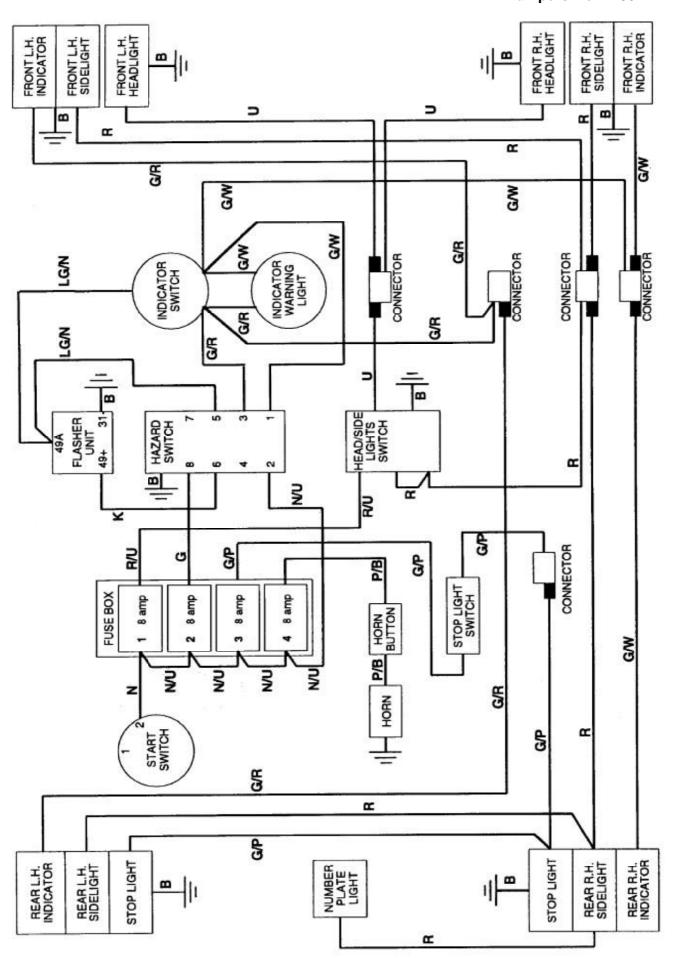
#### MAIN ELECTRICAL CIRCUIT (without road lights)

CE dumpers with TS1 or TR1 engines from January 1995



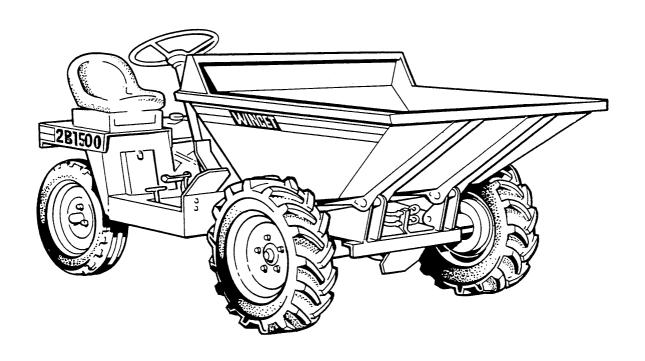
#### ROAD LIGHTS ELECTRICAL CIRCUIT

**Dumpers from 1994** 



# 2B1000 & 2B1500 DUMPERS

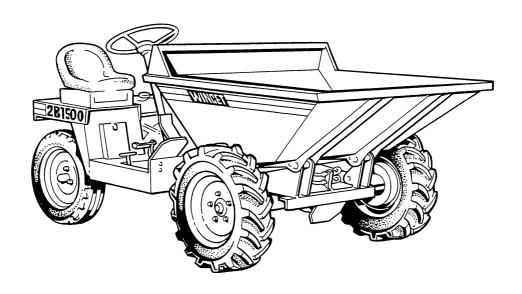
# **PARTS**



# Contents

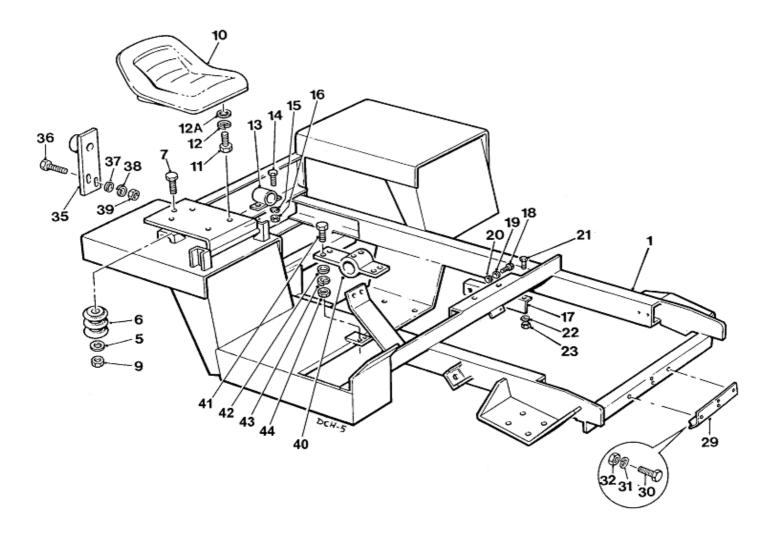
- **A CHASSIS & SKIPS**
- **B AXLES & STEERING**
- **C TRANSMISSIONS**
- **D** BRAKES
- **E ENGINES**
- F ELECTRICS
- **H HYDRAULICS**
- J DECALS
- **K NUMERICAL INDEX**

# 2B1000 & 2B1500 DUMPERS

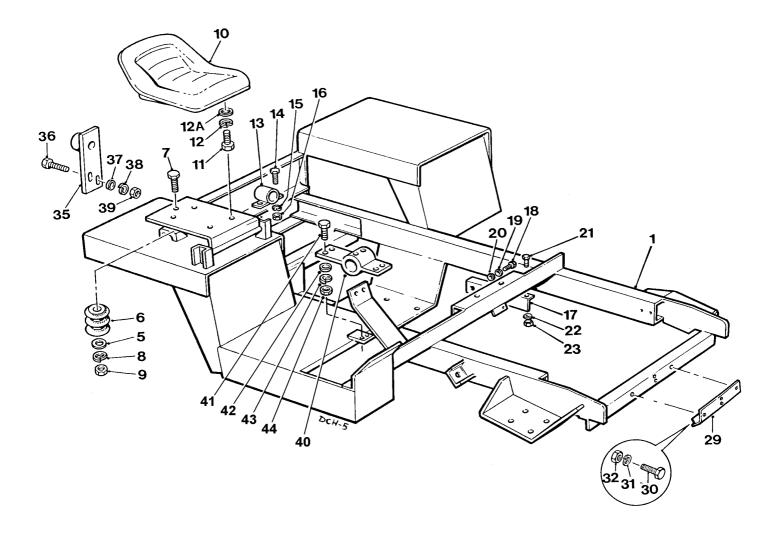


# Chassis, Panels & Skips

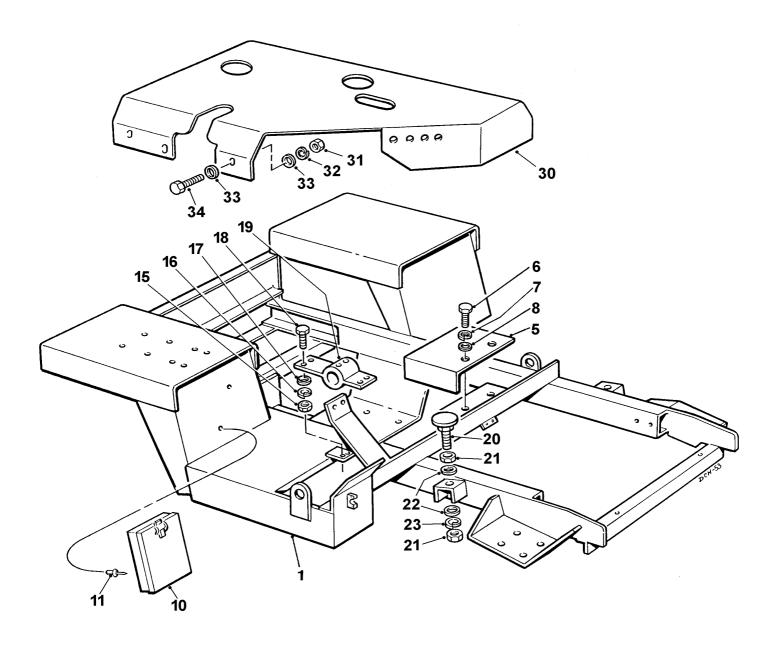
CHASSIS	
Up to Jan. 1995 all dumpers	A - 1
From Jan. 1995 Export dumpers (Not CE I	marked)
CLIACCIC	
CHASSIS	
From Jan. 1995 CE marked dumpers	A - 1A
BATTERY TRAY	A - 1B
SEAT "KAB" (Not to ISO 6683)	A - 1C
SEAT "KAB" <i>(To ISO 6683)</i>	A - 1D
R.O.P.S. FRAME	A - 1E
R.O.P.S. FRAME, FOLDING	A - 1F
PLOUGH	A - 3A
SKIPS	
Gravity tip	A - 2
Hydraulic tip	A - 3
Manual rotation, hydraulic tip	A - 4
High discharge tip	A - 5



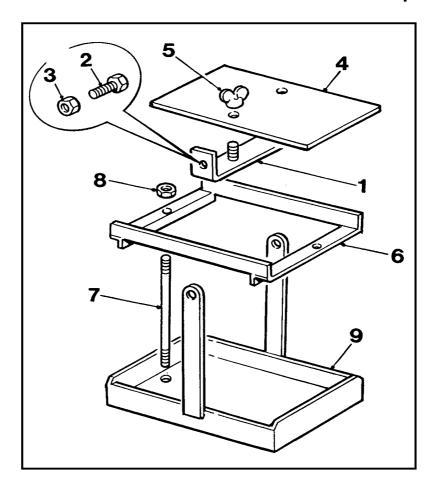
Item	Part no	Serial no	Description	Qty		
	Up to Jan.1995 all dumpers From Jan.1995 Export dumpers (Not CE marked )					
1	40286A01		CHASSIS	1		
	•		ers: 0552 (2B1000) and 0585 (2B1500), d to the hydraulic tank (see page H - 1).			
	From machine seri valve bracket is we		(2B1000) and 0586 (2B1500), the control sis.			
	loose control valve	bracket (part nur	machines prior to these serial numbers, a mber 40220A0810) will also be required (see Winget Service Bulletin).			
5	V2004220		WASHER, large diameter	1		
6 7	10519A01 11S04E		SPRING, seat mounting SCREW, set	1 1		
9	59\$03		NUT, nyloc	1		
10	20072A01	/ 0552	# SEAT, <b>2B1000</b> (OBSOLETE: use V2000954)	1		
10	20072A01	/ 585	# SEAT, <b>2B1500</b> (OBSOLETE: use V2000954)	1		
10 10	V2000954 V2000954	0553 / 586 /	# SEAT, <b>2B1000</b> # SEAT, <b>2B1500</b>	1 1		
_		placing 20072A0	1 with V2000954, refer to Bulletin SB2	'		
11	11S03B		SCREW, set	4		
12 12A	17S04 267S05		WASHER, spring WASHER, flat	4 4		
13	10870A01		TUBE, guide	1		
14	11S04		SCREW, set	2		
15	17S05		WASHER, spring	2		
16	7S04	<b>5.6</b> -	NUT	2		
17	20282A03	IVIa	chines fitted with Salisbury axles BRACKET, gearbox			
18	28S03D		SCREW	1 2		
19	41S05		WASHER, spring	2		
20	10S03		WASHER	3		
21	6S05C		SCREW	1		
23	107S16		NUT	1		
29 30			GUARD, diff., Salisbury axles	1		
30 31	11S04D 17S05		SCREW WASHER, spring	2 2		
32	7S04		NUT	2		

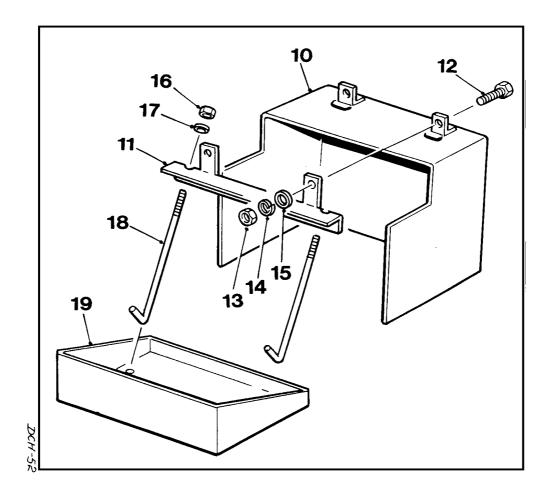


Item	Part no	Serial no	Description	Qty
	Up to Jan.1995 a From Jan.1995 E	•	s (Not CE marked )	
		0234 / 154 /	* 2B1000 * 2B1500	
36 37 38	20355A04 11S04E 267S06 17S05 7S04		* BRACKET, starting handle support * SCREW * WASHER, flat * WASHER, spring * NUT	1 2 4 2 2
		0636 / 853 /	\$ 2B1000 \$ 2B1500	
41 42 43	40332A01 11S04C 267S06 17S05 7S04		\$ BRACKET, steering column support \$ SCREW, set \$ WASHER, flat \$ WASHER, spring \$ NUT	1 4 4 4 4
_	10203A04 20321A02 20321A04 20321A0401 20321A0402		MIRROR ARM, mirror, Lister engine ARM, mirror, Petter engine ARM, mirror BRACKET, mirror	1 1 1 1
_	10607A01		LICENCE HOLDER	1

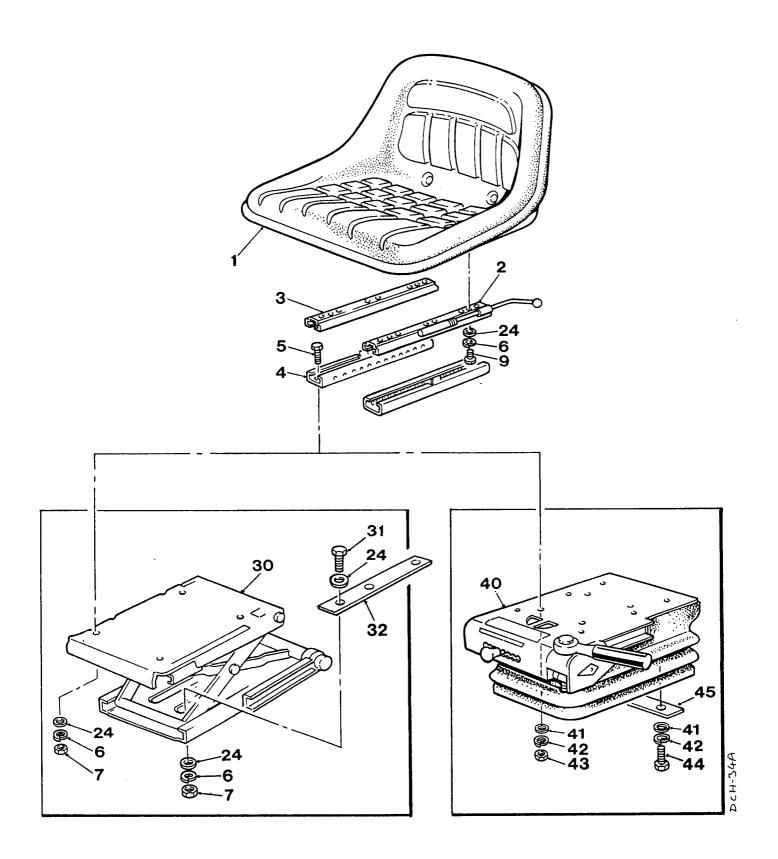


Item	Part no	Serial no	Description	Qty
	From Jan. 1995	CE marked o	dumpers	
1	40286A02		CHASSIS, CE marked dumpers	1
5 6 7 8	V2004300 11S06G 17S08 267S09		GUARD, disc brake SCREW, set WASHER, spring WASHER, flat	1 2 2 2
10 11	V2003568 101S07E		DOCUMENT BOX RIVET	1 2
15 16 17 18 19	7S04 17S05 267S06 11S04C 40332A01	0636 / 853 /	* 2B1000 * 2B1500 * NUT * WASHER, spring * WASHER, flat * SCREW, set * BRACKET, steering column support	4 4 4 4 1
20 21 22 23	V2004234 7S08 267S12 17S11	0638 / 860 /	# 2B1000 # 2B1500 # SCREW, skip stop # NUT # WASHER, flat # WASHER' spring	2 4 4 2
30 31 32 33 34	V2005388 7S03 17S04 267S05 11S03C	0637 / 853 /	\$ 2B1000 \$ 2B1500 \$ COVER, engine \$ NUT \$ WASHER, spring \$ WASHER, flat \$ SCREW, set	1 6 6 12 6





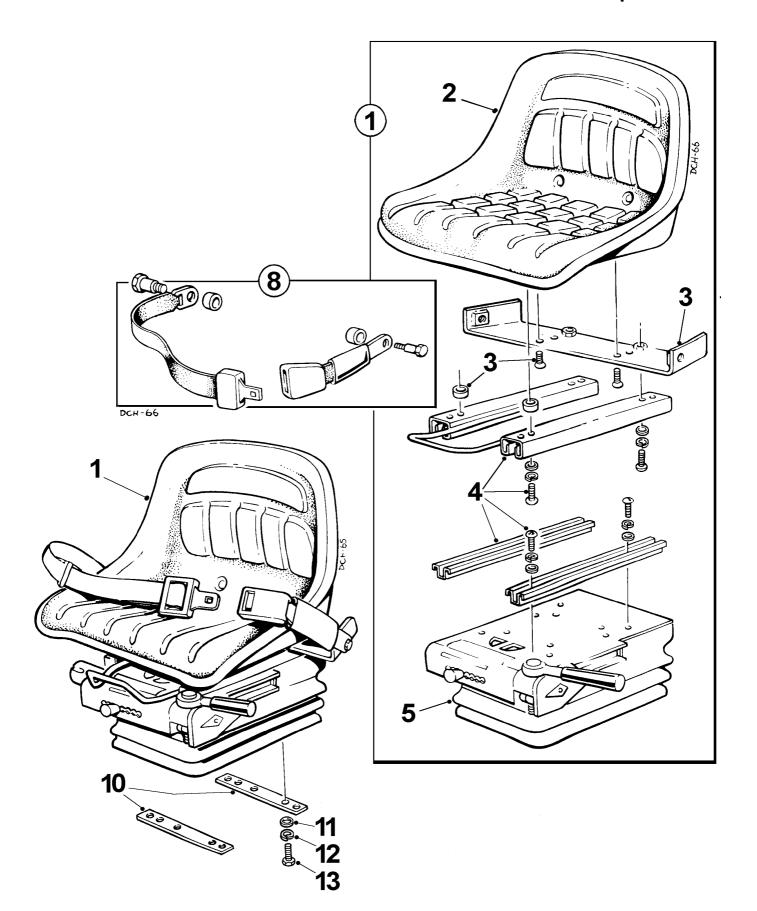
Item	Part no	Serial no	Description	Qty
		/ 0600 / 691	2B1000 2B1500	
1	30080A0303		BAR, battery	1
2	11S04C		SCREW, set	2
3	59S03		NUT, nylon insert	2
4	10742A05		COVER, battery	1
5	177S03		NUT, wing	2
6	10559A01		CLAMP	1
7	40SA17		ROD, clamp	2
8	9S01		NUT, self-locking	2
9	<del>-</del>		TRAY, battery. (welded to chassis)	1
		0601 / 692 /	2B1000 2B1500	
10	513358600		COVER, battery	1
11	V2004055		CLAMP, battery	1
12	11S04C		SCREW,set	2
13	7S04		NUT	2
14	17S05		WASHER, spring	2
15	267S06		WASHER, flat	2
16	61S02		NUT	2
17	267S04		WASHER, flat	2
18	V2004120		ROD, clamp	2
19	513358500		TRAY, battery. (welded to chassis)	1



T	• • • •	<u> </u>	
Item Part no	Serial no	Description	Qty

### Not to be used with R.O.P.S frame

		0598 / 0627 688 / 785	2B1000 2B1500	
1	V2000954		SEAT, "KAB",	1
2	V2003203  		SLIDE RAIL, assembly (order assembly) (order assembly) (order assembly)	1
	11S03B 17S04 7S03		SCREW, set WASHER, spring NUT	4 14 10
9	16S08C		SCREW, slotted	4
24	267S05		WASHER, flat	14
30	V2003654		SUSPENSION UNIT, "XL"	1
31 32	11S03C V2004206		SCREW, set PLATE, clamp	6 2
41	V2004231 267S05 17S04		SUSPENSION UNIT, "XH", c/w shroud WASHER, flat WASHER, spring	1 4 4
44 45	11S03C V2004206		SCREW, set PLATE, clamp	2 2



# This seat and belt must be used with R.O.P.S. kits (see pages A-1E and A-1F)

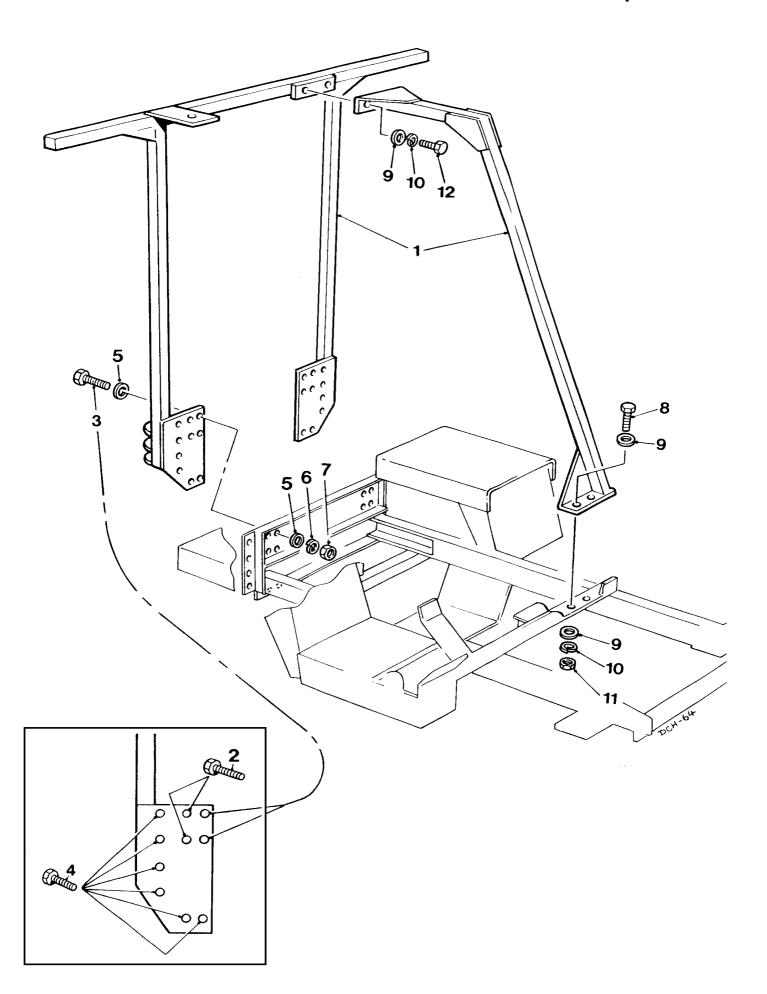
0628 / **2B1000** 786 / **2B1500** 

All UK/EC specification 'CE' marked 2B1000/2B1500 are fitted with this seat assembly from the above serial numbers. (The seatbelt will only be supplied and attached to the anchorage bracket when a R.O.P.S is fitted.)

All other 2B1000/2B1500 produced prior to these serial numbers including Export' non 'CE' marked models produced from the above serial numbers will require this assembly fitting in place of the existing seat assembly should a R.O.P.S. (Roll Over Protective Structure) be required.

Earlier versions of the KAB seating XL or XH suspension unit do not meet the requirements of the ISO 6683 (Seat Belt Pull Test) and should not be used in conjunction with a R.O.P.S.

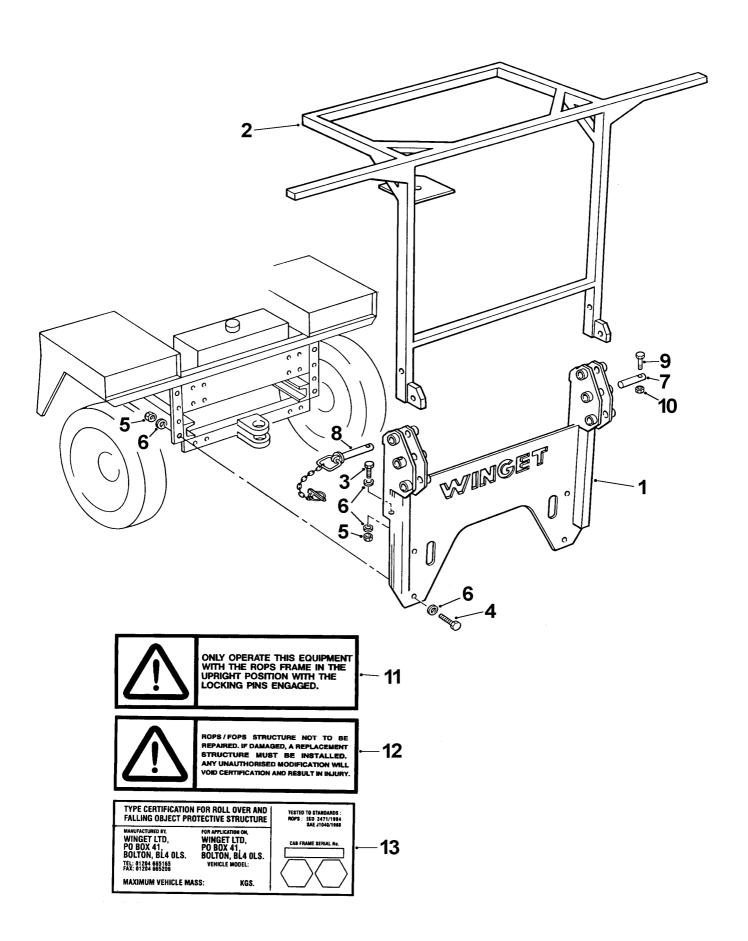
Item	Part no	Serial no	Description	Qty
1	V2005013		SEAT, assembly c/w with seat belt	1
2	V2000954		SEAT, 'KAB P2N'	
3	V602750		BRACKET, anchorage	1
4	V602752		SLIDE RAIL, assembly	1
5	V602751		UNIT, suspension 'XH2' (ISO 6683)	1
8	V602749		BELT, seat	1
10	V2004206		PLATE, clamp	2
11	267S05		WASHER, flat	4
12	17S04		WASHER, spring	4
13	11S03C		SCREW, set	4



Item	Part no	Serial	no	Description	Qty
		0628 /		2B1000	
		786 /		2B1500	
				For fitting to dumpers built prior tabove serial numbers	to the
	V602747		#	R.O.P.S. KIT, includes items 1 to plus KAB XH2/P2N seat assemble seat belt to ISO 6683. (See page)	ly with
				For fitting to dumpers built from tabove serial numbers	he
	V602748		#	R.O.P.S. KIT, includes items 1 to plus seat belt V602749 for seat V The kit does not include the seat (See page A-1D)	/2005013.
1	V2004946			FRAME, R.O.P.S.	1
2	11S04G			SCREW, set	4
3	11S04E			SCREW, set	4
4	11S04F			SCREW, set	12
5	267S06			WASHER, flat	40
6 7	17S05 7S04			WASHER, spring NUT	20
8	7504 11S05G			SCREW, set	20 2
9	267S07			WASHER, flat	6
10	17S06			WASHER, spring	4
11	7S05			NUT	2
12	11S05C			SCREW, set	2

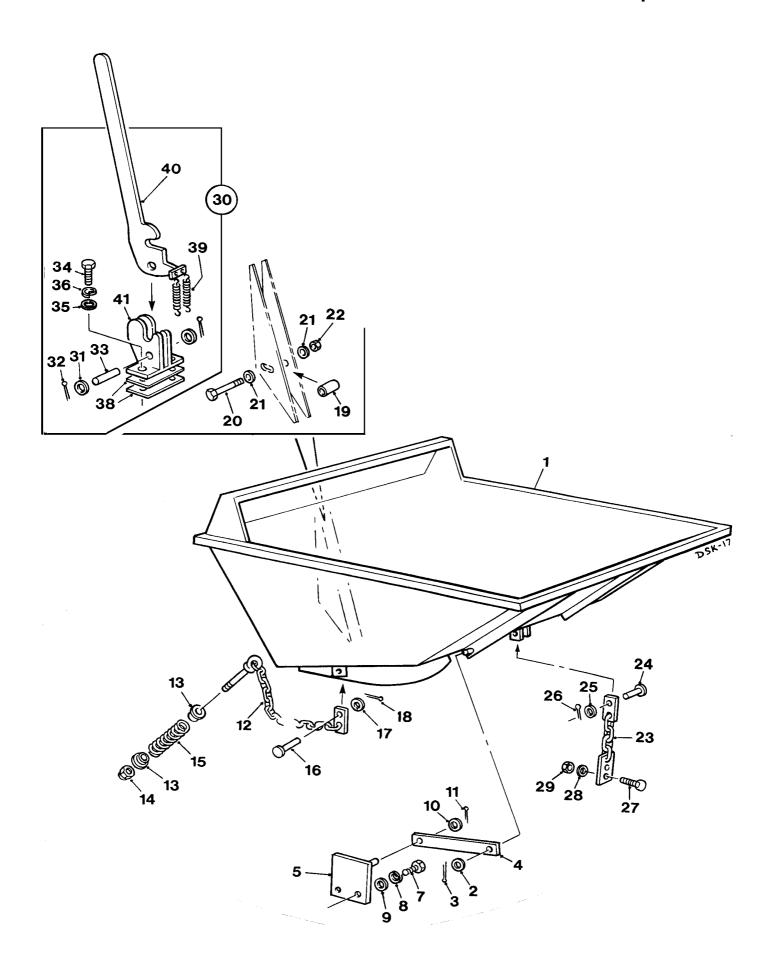
and SB226.

# To fit kits refer to Service Bulletins SB225

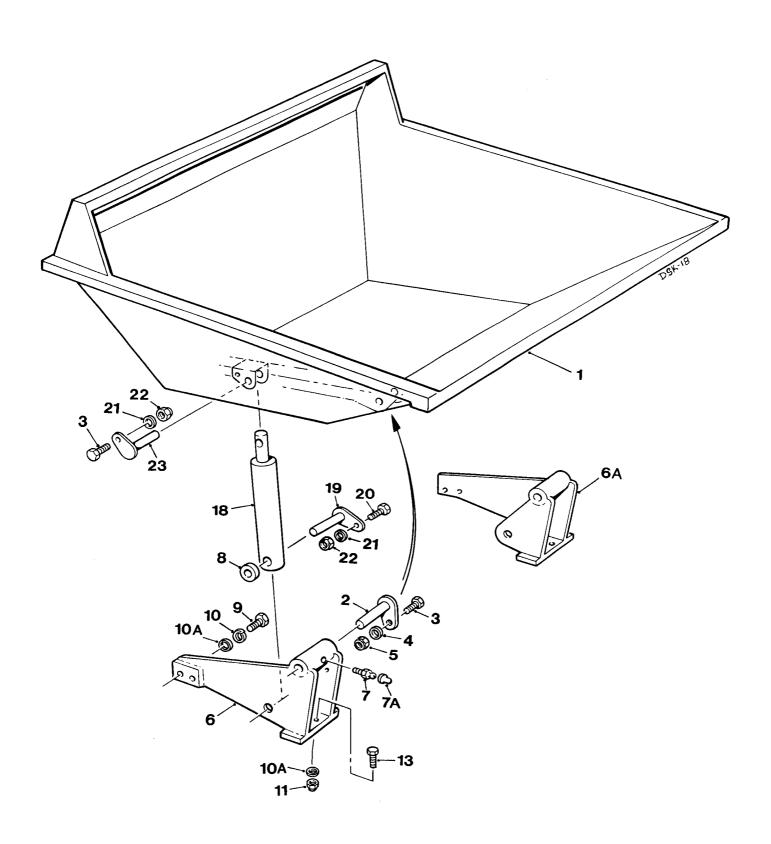


Item	Part no	Serial no	Description Qty
		0635 / 821 /	2B1000 2B1500
			For fitting to dumpers built prior to 0628 <b>2B1000</b> 0786 <b>2B1500</b>
	V602979	#	R.O.P.S. KIT, includes items 1 to 13 below plus KAB XH2/P2N seat assembly with seat belt to ISO 6683. (See page A-1D)
			For fitting to dumpers from 0628 <b>2B1000</b> 0786 <b>2B1500</b>
	V602978	#	R.O.P.S. KIT, includes items 1 to 13 below plus seat belt V602749 for seat V2005013. The kit does not include the seat. (See page A-1D)
1	V2005280		MOUNTING, R.O.P.S. frame 1
2	V2005295 11S05E		FRAME, R.O.P.S. folding 1 SCREW, set 2
4 5	11S05H 59S04		SCREW, set 4 NUT, nyloc 6
6	267S07		WASHER, flat 12
7 8	V2004926 V2005285		PIN, pivot 2 PIN, locking, c/w chain & clips 2
9 10	8S03H 59S12		BOLT 2 NUT, nyloc 2
11 12	V2005310 V2004754		DECAL, R.O.P.S. folding 2 DECAL, damage to R.O.P.S. frame 2
13	V2005030		PLATE, R.O.P.S. identification 1
•••••	101S05D		RIVET, pop (used with item 13) 4

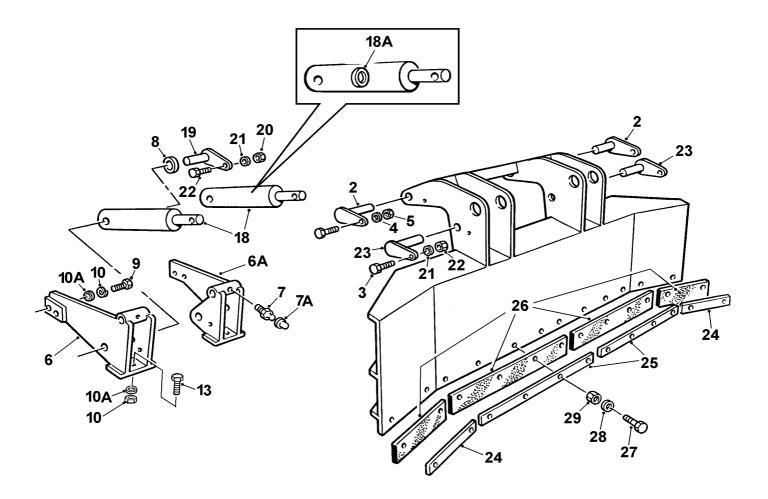
# To fit kits refer to Service Bulletins SB269 and SB270.



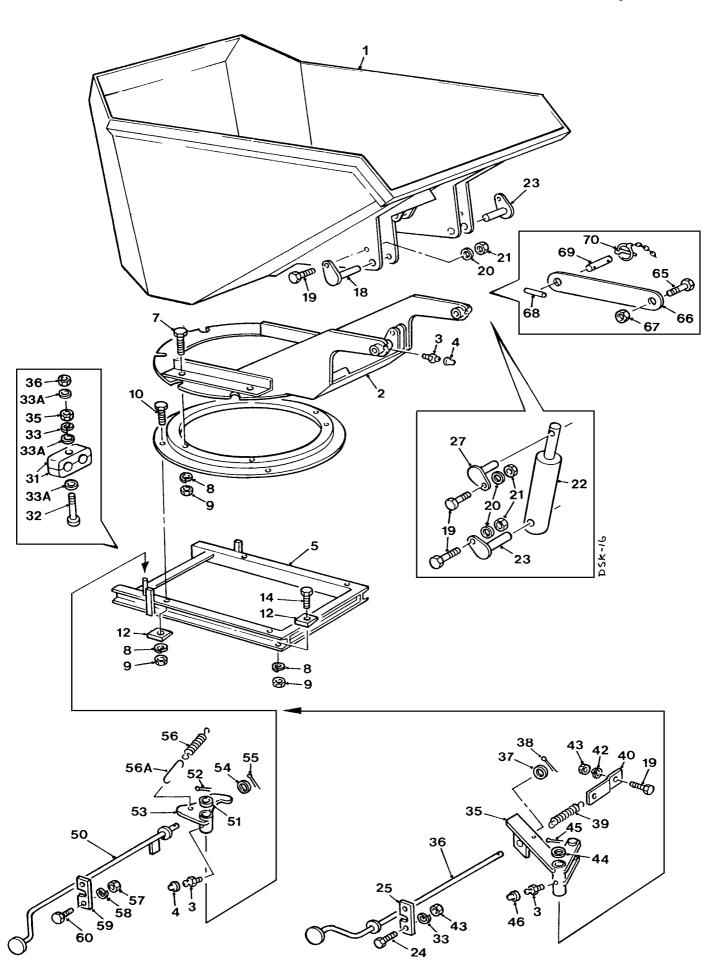
Item	Part no	Serial no	Description	Qty
1	40295A06		SKIP, <b>2B1000</b>	1
1	40295A04		SKIP, <b>2B1500</b>	1
2	10S06		WASHER, flat	2
3	44S05G		PIN, split	2
4	10892A01		ARM, radius	2
5	10893A01		BRACKET, mount, R.H. (illustrated)	1
	10893A02		BRACKET, mount, L.H. (not illustrated)	
7	11S05E		SCREW, set	4
8 9	17S06 267S07		WASHER, spring WASHER, flat	4 4
10	10S06		WASHER	2
11	44S05G		PIN, split	2
12	20286A07	/ APR 85	CHAIN, skip check, c/w bolt	2
12	20286A10	MAY 85 /	CHAIN, skip check, c/w bolt	2
13	10894A01	/ APR 85	COLLAR, spring alignment	4
13	10894A02	MAY 85 /	COLLAR, spring alignment	4
14	59S12	/ APR 85	NUT, nylon insert	2
14	59S04	MAY 85 /	NUT, nylon insert	2
15	C173A		SPRING, compression	2
16	10650A04		PIN, clevis	2
17 18	10S04 44S03C		WASHER PIN, split	2 2
19	C140A		TUBE, skip catch	1
20	8S06R		BOLT	1
21	247S09		WASHER, flat	2
22	59S11		NUT, nylon insert	1
23	20286A02		CHAIN, front	1
24	10650A18		PIN, clevis	1
25 26	10S03 44S02C		WASHER, flat PIN, split	1
27			SCREW, set	2
28	17S04		WASHER, spring	2
29	7S03		NUT	2
30	40296A01		CATCH, skip, assembly	1
31	10S06		WASHER, flat	2
32			PIN, split	2
33			PIN, pivot	1
34 35	11S06G 267S09		SCREW, set WASHER, flat	2 2
36			WASHER, spring	2
38	10054A04		SHIM	AR
39	C173B		SPRING	2
40	10912A03		LEVER, catch	1
41			BODY, catch (order assembly)	1



Item	Part no	Serial no	Description	Qty
1	40295A08		SKIP, <b>2B1000</b>	1
1	40295A05		SKIP, <b>2B1500</b>	1
2	10470A10		PIN, pivot, skip	2
3	11S04C		SCREW, set	4
4	267S06		WASHER, flat	2
5	59\$03		NUT, nylon insert	2
6	30126A08		BRACKET, pivot, R.H. (illustrated)	1
6A	30126A09		BRACKET, pivot, L.H. (not illustrated)	1
7	131S03	/ 0552	NIPPLE, grease, push-in, 2B1000	2
7	131S03	/ 585	NIPPLE, grease, push-in, 2B1500	2
7	131S01	0553 /	NIPPLE, grease, threaded, 2B1000	2
7	131S01	586 /	NIPPLE, grease, threaded, 2B1500	2
7A	176S01		CAP, grease nipple	2
8	L279/1		SPACER	2
9	8S05E		BOLT	4
10	17S06		WASHER, spring	4
10A	267S07		WASHER, flat	6
11	59S04		NUT, nylon insert	2
13	11S05E		SCREW, set	2
18	-		RAM, hyd (see page H - 6)	2
19	10470A11		PIN, pivot	2
20	11S04C		SCREW, set	2
21	267S06		WASHER, flat	4
22	59S03		NUT, nylon insert	4
23	10470A12		PIN, pivot	2

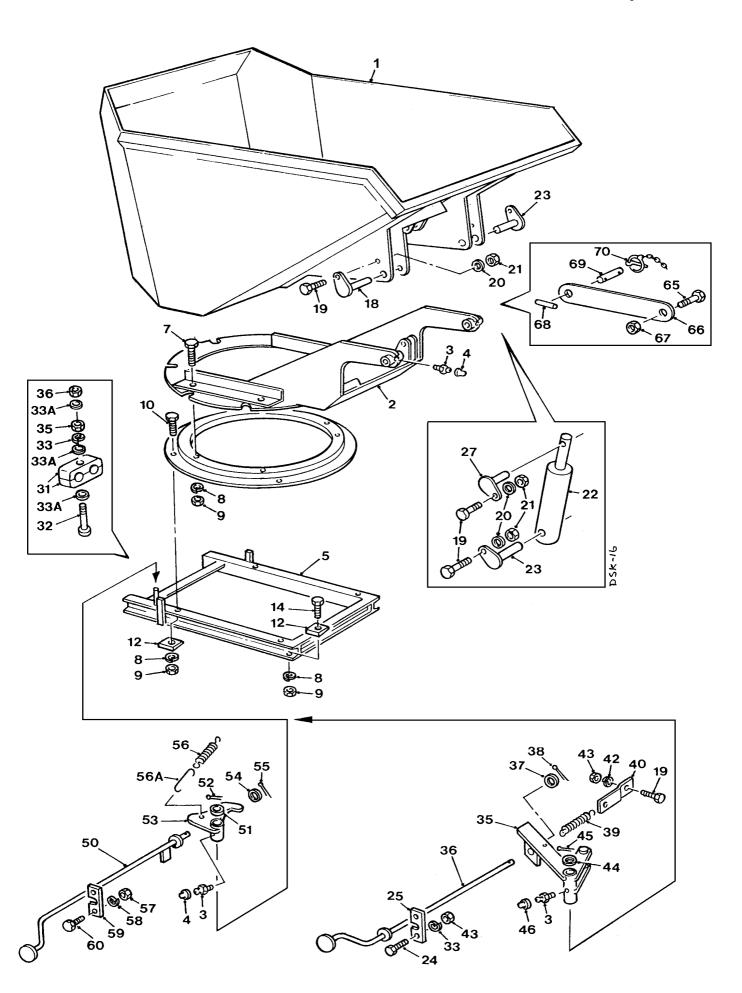


Item	Part no	Serial no	Description	Qty
1	V2005145		PLOUGH	1
2	10470A18		PIN, pivot, plough	2
3	11S04C		SCREW, set	4
4	267S06		WASHER, flat	2
5	59S03		NUT, nylon insert	2
6	30126A08		BRACKET, pivot, R.H.	1
6A	30126A09		BRACKET, pivot, L.H.	1
7	131S03	/ 585	NIPPLE, grease, push-in	2
7	131S01	586 /	NIPPLE, grease, threaded	2
7A	176S01		CAP, grease nipple	2
8	L2791		SPACER	2
9	8S05E		BOLT	4
10	17S06		WASHER, spring	4
10A	267S07		WASHER, flat	6
11	59S04		NUT, nylon insert	2
13	11S05E		SCREW, set	2
10	TTOOOL		OOKEW, Set	2
18		#	RAM, lift, (see page H-6)	2
18A	V2005147		SPACER, restrictor (inside ram)	1
			The ram is identical to the tip ram	shown
			on page H-6, except for the addition	
			Restrictor Spacer, item 18A)	
		Note:	Hydraulic hoses and fittings to the	
			are identical to those shown on pa	age H-1A
4.0	40470444			
19	10470A11		PIN, pivot, ram base	2
20	11S04C		SCREW, set	2
21	267S06		WASHER, flat	4
22	59\$03		NUT, nylon insert	4
23	10470A12		PIN, pivot, ram top	2
24	V2005149		CLAMP, short	2
25	V2005148		CLAMP, long	2
	V2005150		STRIP, rubber	1 set
27			BOLT	12
28	267S05		WASHER, flat	24
29	61S03		NUT,"Binx" self locking	12



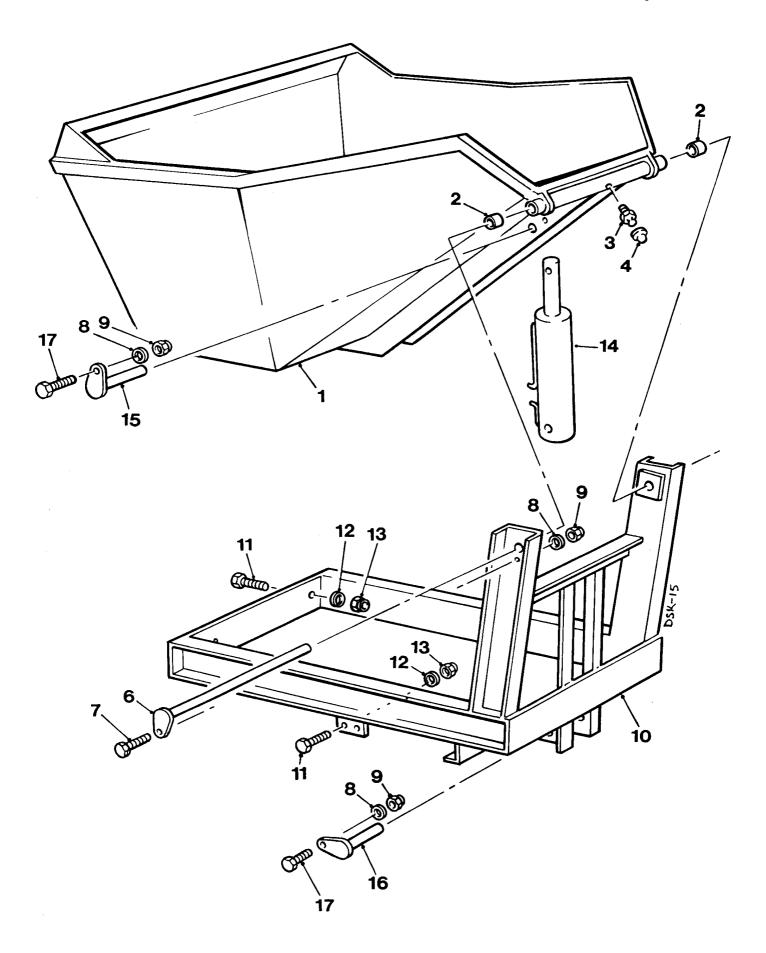
SKIP, rotating A - 4

Item	Part no	Serial no	Description	Qty
1 2	40115A07 40116A02		SKIP FRAME, upper	1
3 3 3 3 3 4 5 6	131S03 131S03 5ST100 5ST100 131S01 131S01 176S01 40116A04 10640A02	/ 0552 / 585 / 0552 / 585 0553 / 586 /	NIPPLE, grease, push-in, <b>2B1000</b> NIPPLE, grease, push-in, <b>2B1500</b> NIPPLE, grease, threaded, <b>2B1000</b> NIPPLE, grease, threaded, <b>2B1500</b> NIPPLE, grease, threaded, <b>2B1000</b> NIPPLE, grease, threaded, <b>2B1500</b> CAP, grease nipple FRAME, lower TURNTABLE, ball bearing	3 3 3 3 3 1 1
7 8 9	11S05F 17S06 7S05		SCREW, set WASHER, spring NUT	4 12 12
10 12 14	11S05E 105S05 11S05E		SCREW, set WASHER, taper SCREW, set	4 8 4
18 19 20 21	10470A05 11S04D 267S06 59S03		PIN, pivot SCREW, set WASHER, flat NUT, nylon insert	2 4 4 4
22 23 24	- 10470A06 11S02B		RAM, hyd (see page H - 8) PIN, pivot SCREW, set	1 1 2
25 27	40286A0135		RETAINER PIN, pivot	1
31 32 33	187S08JJ 103S02H 41S03		CLAMP, (two halves) BOLT,skt. cap hd. WASHER, spring	6 3 3
33A 34 34A	267S04 104S01 192S01		WASHER, flat NUT NUT, self-locking 'Binx'	7 3 1
		•	nblies have been fitted. Either item 35 assembly on next page.	
36	40296A02 267S07		CATCH, skip, assembly ROD, catch (order assembly) WASHER, flat	1 1 1



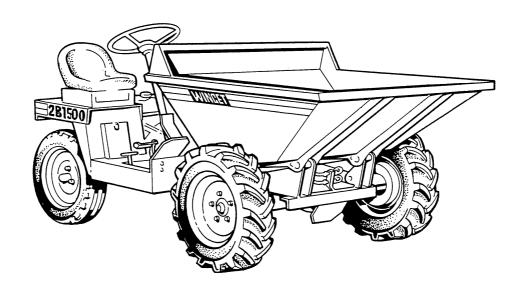
SKIP, rotating A - 4

Item	Part no	Serial no	Description	Qty
38 39 40 41 42 43 44 45	44S03C C173B 10869A04 11S04D 17S05 7S04 10S06 44S05E		PIN, split SPRING,return RETAINER, spring SCREW, set WASHER, spring NUT WASHER, flat PIN, split	1 1 1 1 1 3 1
46 46 46 46	131S03 131S03 131S01 131S01	/ 0552 / 585 0553 / 586 /	NIPPLE, grease, push-in, <b>2B1000</b> NIPPLE, grease, push-in, <b>2B1500</b> NIPPLE, grease, threaded, <b>2B1000</b> NIPPLE, grease, threaded, <b>2B1500</b>	1 1 1
50 51 52 53 54 55 56 56A 57 58 59 60	40296A04 10912A06 10S06 44S05E 10912A05 267S07 44S03C C173B 10869A04 7S02 17S03 40286A0135 11S02B		CATCH, skip, assembly ROD WASHER PIN, split PLATE WASHER, flat PIN, split SPRING RETAINER, spring NUT WASHER, spring BRACKET SCREW, set	1 1 1 1 1 1 1 2 2 1 2
	8S07K V2004004 61S07 55S02D V2003851 902S02		BOLT SUPPORT, skip NUT, 'Binx' self-locking PIN, roll PIN PIN,lynch & chain	1 1 1 1 1



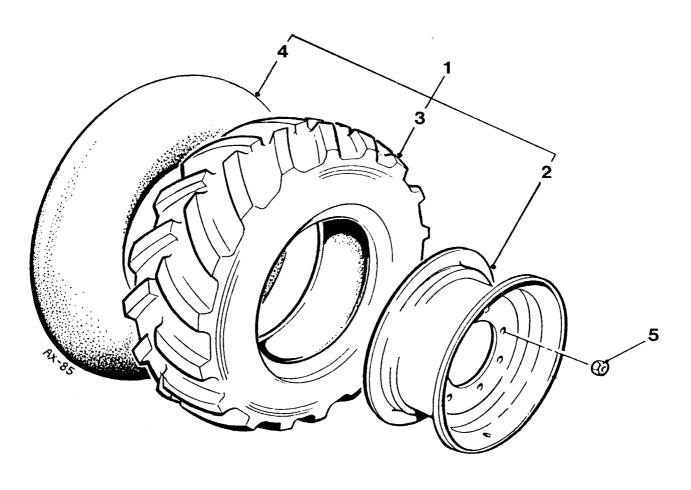
Item	Part no	Serial no	Description	Qty
110111	T dit 110	Oction 110	Description	<u> </u>
1	40288A01		SKIP	1
2	4SHL91		BUSH, pivot tube	2
3 3	131S03 131S03	/ 0552 / 585	NIPPLE, grease, push-in, <b>2B1000</b> NIPPLE, grease, push-in, <b>2B1500</b>	1 1
3 3	131S01 131S01	0553 / 586 /	NIPPLE, grease, threaded, <b>2B1000</b> NIPPLE, grease, threaded, <b>2B1500</b>	1 1
4	176S01		CAP, grease nipple (not illustrated)	1
6	10470A09		PIN, pivot, skip	1
7	11S04C		SCREW, set	1
8	267S06		WASHER, flat	3
9	59\$03		NUT, nylon insert	3
10	40245A02		FRAME	1
11	11S05E		SCREW, set	6
12	267S07		WASHER, flat	6
13	59\$04		NUT, "Nyloc"	6
14	-		RAM, hyd (see page H - 7)	1
15	10470A07		PIN, pivot	1
16	10470A08		PIN, pivot	1
17	11S04C		SCREW, set	2

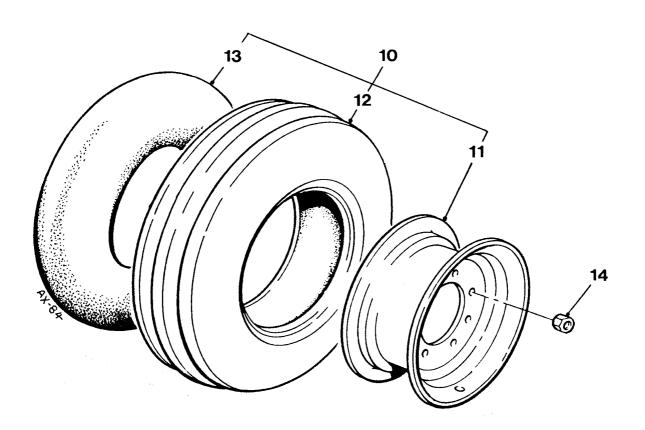
## 2B1000 & 2B1500 DUMPERS



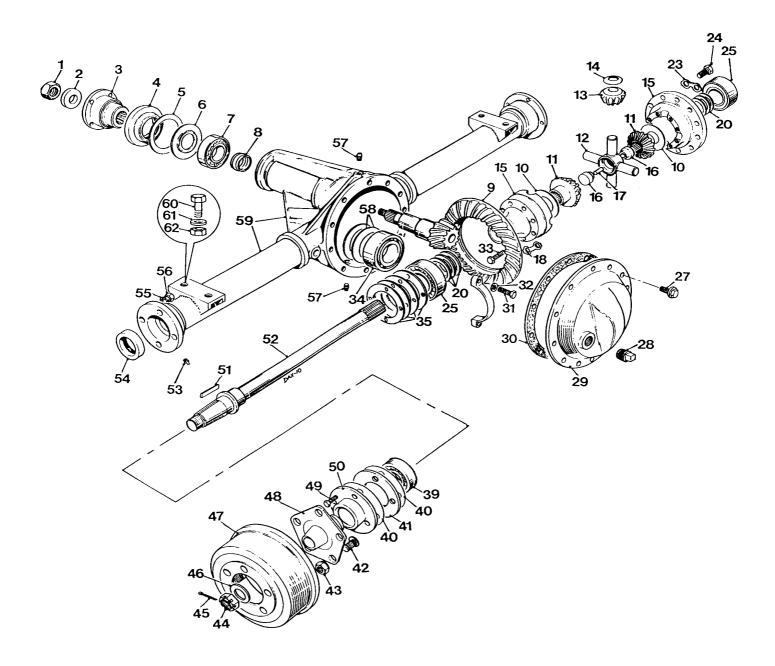
## Axles & Wheels

WHEELS & TYRES	B - 1
	D
DRIVE AXLE, Salisbury, 2B1000	B - 5
	<b>D</b> 0
DRIVE AXLE, Salisbury, 2B1500	B - 6
DRIVE AXLE, Newage & fittings	B - 7
· · · · · · · · · · · · · · · · · · ·	
DRIVE AXLE, Newage, 200RF	<b>B - 8</b>
DRIVE AXLE, Newage, 215 series	
Input pinion & differential	<b>B - 8A</b>
Planet carrier & axle casing	<b>B - 8B</b>
Hub & axle shaft	<b>B-8C</b>
Brakes	<b>B - 8D</b>
STEERING AXLE & STEERING COLUMN	<b>B-9</b>
STEERING COLUMN, L.H. type	B - 9A
STEERING COLUMN, R.H. type	<b>B</b> - 9B

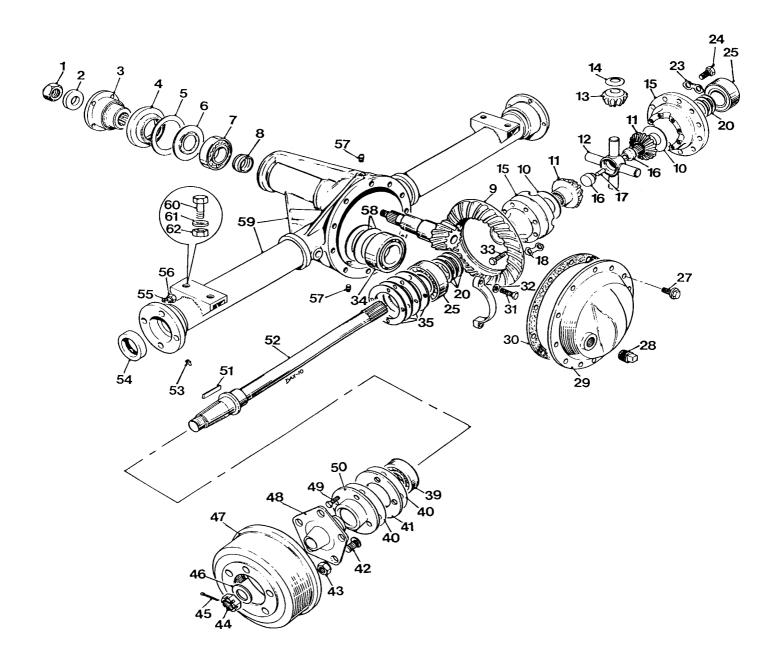




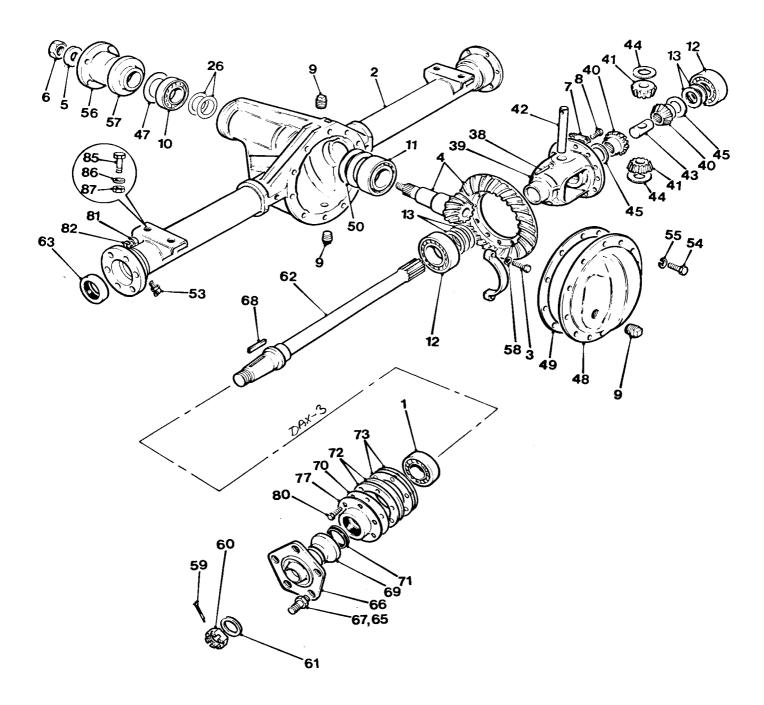
Item	Part no	Serial no	Description	Qty
		Check rim & tyr	re size before ordering.	
		2	B1000	
1	24\$19		WHEEL, front, L.H., assembly	1
1 2	24S20 20158A03		WHEEL, front, R.H., assembly RIM, wheel	1 1
	20\$09		TYRE, 6 x 16	1
4	23\$02		TUBE, 6 x 16	1
		2	B1500	
1	24S57		WHEEL, front, L.H., assembly	1
1	24S58		WHEEL, front, R.H., assembly	1
	30192A03 22S09		RIM, wheel, 5.5 x 16 TYRE, 7.50 x 16	1 1
4	23\$03		TUBE, 7.50 x 16	1
5	10668A01		NUT, wheel	10
		2	B1000	
10	24S39		WHEEL, rear, assembly	2
11 12	20129A03 21S08		RIM, wheel, 16" 3 stud TYRE, 4.5 x 16	1 1
13	23S22		TUBE, 4.5 x 16	1
14	10668A01		NUT, wheel	6
14	10000A01		•	O
		2	B1500	
10	24S37	/1164	WHEEL, rear, assembly, 5.50 X 16	2
10 11	475600019 20129A03	1165/ /1164	WHEEL, rear, assembly, 6.00 X 16 RIM, wheel, 16" 3 stud	2 1
11	V602680	1165/	RIM, wheel, 16" 5 stud	1
12	21S02	/1164	TYRE, 5.50 x 16	1
12	475600017	1165/	TYRE, 6.00 x 16	1
13 13	23S01 475600018	/1164 1165/	TUBE, 5.50 x 16 TUBE, 6.00 x 16	1 1
14	10668A01	/1164	NUT, wheel	6
	V602678	1165/	NUT, wheel, M16	10



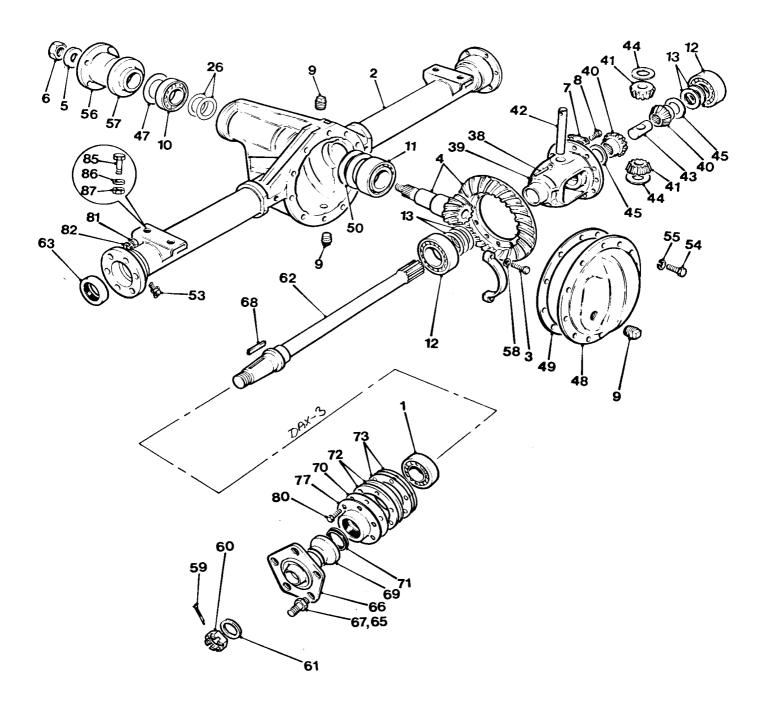
- 30085A03 DRIVE AXLE, asse	mbly 1
1 30166A0106 NUT	1
2 30088A010 WASHER	1
3 30085A0301 FLANGE, co	mpanion 1
4 30166A0156 SEAL, oil	. 1
5 30166A0146 GASKET	1
6 30085A0102 SLINGER	1
7 30085A0103 BEARING, p	inion 1
8 30085A0104 SPACER, co	llapsible 2
9 30085A0105 GEAR, servi	ce drive 1
	IAL, assembly 1
	, thrust, diff. side gear 4
11 30085A0107 GEAR, di	
•	iff. pinion mate 1
13 30085A0109 MATE, di	•
	, thrust, diff. pinion mate 4
15 30085A0111 CASE, di	
	axle shaft 2
17 30242A0144 PIN, roll	1
	liff. case locking 4
19 30085A0125 BOLT	8
	diff. bearing, .003" AR
	diff. bearing, .005" AR
	diff. bearing, .010" AR diff. bearing, .030" AR
·	•
	rive gear locking 5
24 30085A0113 BOLT	10
25 30085A0114 BEARING	•
27 30085A0121 BOLT	10
28 30085A0122 PLUG, oil 29 30085A0123 COVER,	
30 30085A0124 GASKET	1 1
31 30166A0103 BOLT	4
32 30166A0157 WASHER	
	i, pinion, inner 1
	eel bearing, .003" AR
•	eel bearing, .005" AR
•	eel bearing, .010" AR
	eel bearing, .030" AR
39 30085A0131 BEARING	_
40 30085A0132 GASKET	4
	earing retaining 2
42 30085A0134 STUD, wi	3 3
44 30085A0135 NUT, sha	



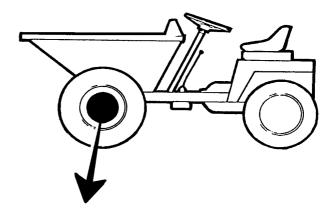
Item	Part no	Serial no	Description	Qty
45	30085A0136		PIN, split	2
46	30085A0137		WASHER, shaft	2
47	30085A0138		DRUM, brake	2
48	30085A0139		HUB, wheel	2
49	30085A0140		SCREW, set	8
50	30085A0141		SEAL, oil, hub	2
-	30085A0142		SEAL, oil (not illustrated)	2
51	30085A0143		KEY, shaft	2
52	30085A0144		SHAFT, axle	2
	30085A0145		NIPPLE, grease	2
54	30085A0146		SEAL, oil	1
55	30170A0110		WASHER, locking	8
56	30171A0109		NUT	8
57			PLUG, drain & filler	2
	30085A0148		SHIM, pinion bearing, .003"	AR
	30085A0149		SHIM, pinion bearing, .005"	AR
58	30085A0150		SHIM, pinion bearing, .010"	AR
-	-		BRAKE, assembly, R.H. <i>(see pag</i> BRAKE, assembly, L.H. <i>(see page)</i>	,
59	30085A0166		SERVICE CARRIER & TUBE	1
		Α	xle fixings	
60	6S05C		BOLT	4
61	10S04		WASHER	4
62	107S16		NUT, nylon insert	4
- <del>-</del>			· / / = = ====	•

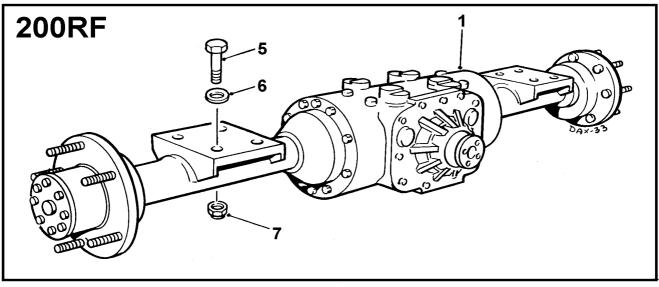


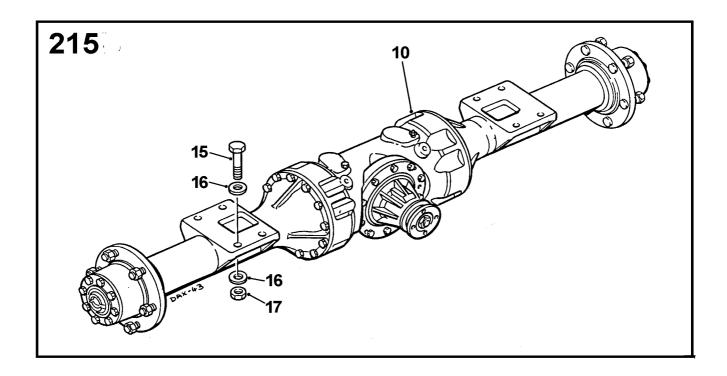
Item	Part no	Serial no	Description	Qty
-	30088A02		DRIVE AXLE, assembly	1
1	30166A0101		BEARING	2
2	30088A0123		CARRIER & TUBE, assembly	1
3	30166A0103		BOLT	4
4	30166A0104		GEAR, assembly	1
5	30166A0105		WASHER	1
6	30166A0106		NUT, locking	1
7	30166A0107		STRAP, 'L'	6
8	30166A0108		BOLT	12
9	30166A0109		PLUG, level filler	3
10	30166A0110		BEARING	1
11	30166A0111		BEARING	1
12	30166A0112		BEARING	2
13	30166A0113		SHIM, diff. bearing, .028"	AR
13	30166A0114		SHIM, diff. bearing, .030"	AR
13	30166A0115		SHIM, diff. bearing, .031"	AR
13	30166A0116		SHIM, diff. bearing, .032"	AR
13	30166A0117		SHIM, diff. bearing, .033"	AR
13	30166A0118		SHIM, diff. bearing, .034"	AR
13	30166A0119		SHIM, diff. bearing, .035"	AR
13	30166A0120		SHIM, diff. bearing, .036"	AR
13	30166A0121		SHIM, diff. bearing, .037"	AR
13	30166A0122		SHIM, diff. bearing, .038"	AR
13	30166A0123		SHIM, diff. bearing, .039"	AR
13	30166A0124		SHIM, diff. bearing, .040"	AR
13	30166A0125		SHIM, diff. bearing, .045"	AR
26	30166A0126		SHIM, outer pinion bearing, .030"	AR
26	30166A0127		SHIM, outer pinion bearing, .031"	AR
26	30166A0128		SHIM, outer pinion bearing, .032"	AR
26	30166A0129		SHIM, outer pinion bearing, .033"	AR
26	30166A0130		SHIM, outer pinion bearing, .034"	AR
26	30166A0131		SHIM, outer pinion bearing, .035"	AR
26 26	30166A0132 30166A0133		SHIM, outer pinion bearing, .036" SHIM, outer pinion bearing, .037"	AR AR
26	30166A0134		SHIM, outer pinion bearing, .037 SHIM, outer pinion bearing, .038"	AR
26	30166A0135		SHIM, outer pinion bearing, .039"	AR
26	30166A0136		SHIM, outer pinion bearing, .040"	AR
-	30166A0137		DIFFERENTIAL, assembly	1 1
38	30166A0138		PIN, roll	1
39	30166A0139		CASE, differential	1
40	30166A0140		GEAR, diff. side	2
41	30166A0141		MATE, diff. pinion	2
42	30166A0142		SHAFT, diff. pinion mate	1
43	30166A0143		SPACER, axle shaft	1
			•	·=
44	30166A0144		WASHER, thrust	2



Item	Part no	Serial	no	Description	Qty
47 48 49	30166A0147 30166A0148 30166A0149			SLINGER, oil COVER, gear carrier GASKET	1 1 1
50 50 50	30166A0150 30166A0151 30166A0152			SHIM, inner pinion bearing, .003" SHIM, inner pinion bearing, .005" SHIM, inner pinion bearing, .010"	AR AR AR
53 54 55	30166A0176 30166A0153 30166A0154			NIPPLE, grease BOLT WASHER, locking	2 10 10
56 56	30088A0124 30309A0114			FLANGE, two bolt fitting FLANGE, four bolt fitting	1 1
57 58 59 60	30088A0125 30088A0126 30166A0158 30166A0159			SEAL, oil WASHER, locking PIN, split NUT	1 4 2 2
61 62 63	30166A0160 30166A0180 30166A0161			WASHER SHAFT, axle SEAL, oil	2 2 2
64 65 66 67	30171A0102 30171A0103 30171A0104 30171A0105			HUB, wheel, assembly DOWEL, stud locking HUB, wheel STUD, wheel	2 10 2 10
68	30166A0169			KEY, axle shaft	2
69 70 71 72	30171A0106 30166A0170 30171A0107 30166A0171			HOUSING, 'V' ring GASKET 'V' RING PLATE, retainer	2 2 2 4
73 73 73 73	30166A0172 30166A0173 30166A0174 30166A0175			SHIM, wheel bearing, .003" SHIM, wheel bearing, .005" SHIM, wheel bearing, .010" SHIM, wheel bearing, .030"	AR AR AR AR
77 80 81 82	30166A0177 30166A0167 30171A0109 30171A0110			SEAL, oil BOLT, brake backplate NUT, locking WASHER	2 12 12 12
Axle fixings					
85 86 87	6S05F 10S04 107S16			BOLT WASHER NUT	4 4 4







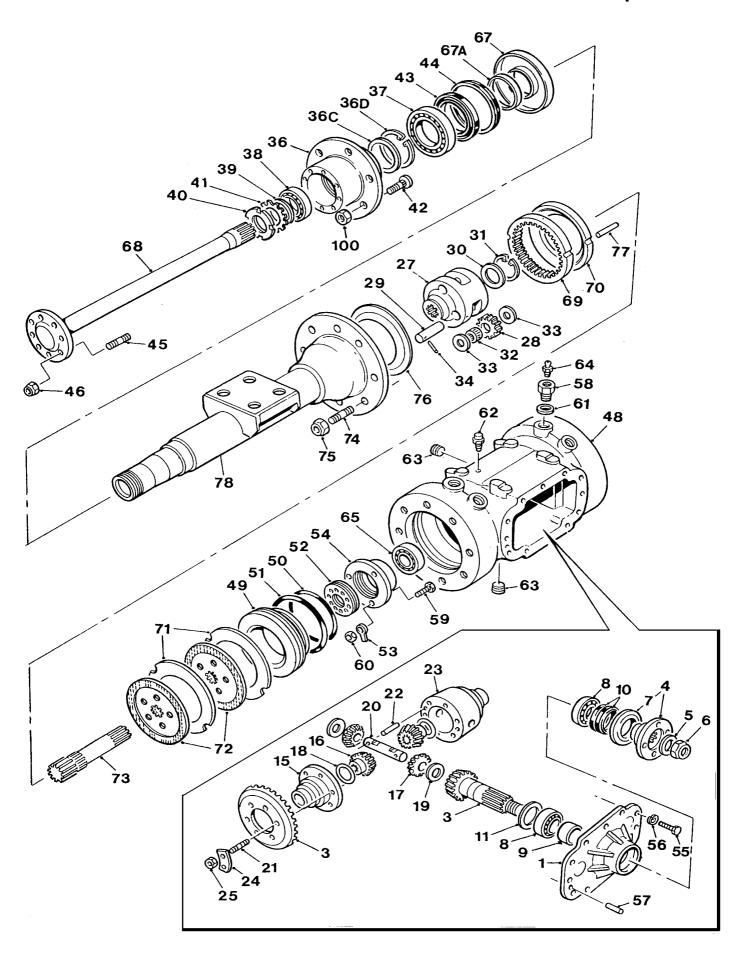
Qty

Item Part no

Serial no

		<b>/</b> 0634	2B1000	
		<b>/</b> 835	2B1500	
1	30156A10		AXLE, 200RF	1
		(See	page B-8 for internal parts)	
_	00050		DOLT	0
5	6S05C		BOLT	8
6	10S04		WASHER, flat	8
7	107S16		NUT, "Nyloc"	8
		0635 /	2B1000	
		836 /	2B1500	
10	30156A13		<b>AXLE</b> , 215	1
		(See	page B-8A for Input pinion & diff	ferential)
		(See	e page B-8B for planet carrier & a.	xle casing)
		(See	page B-8C for hub & axle shaft)	
		(See	page B-8D for brakes)	
15	8S06G		BOLT	8
16	267S09		WASHER, flat	16
17	59S11		NUT, "Nyloc"	8
			. ,	_

Description

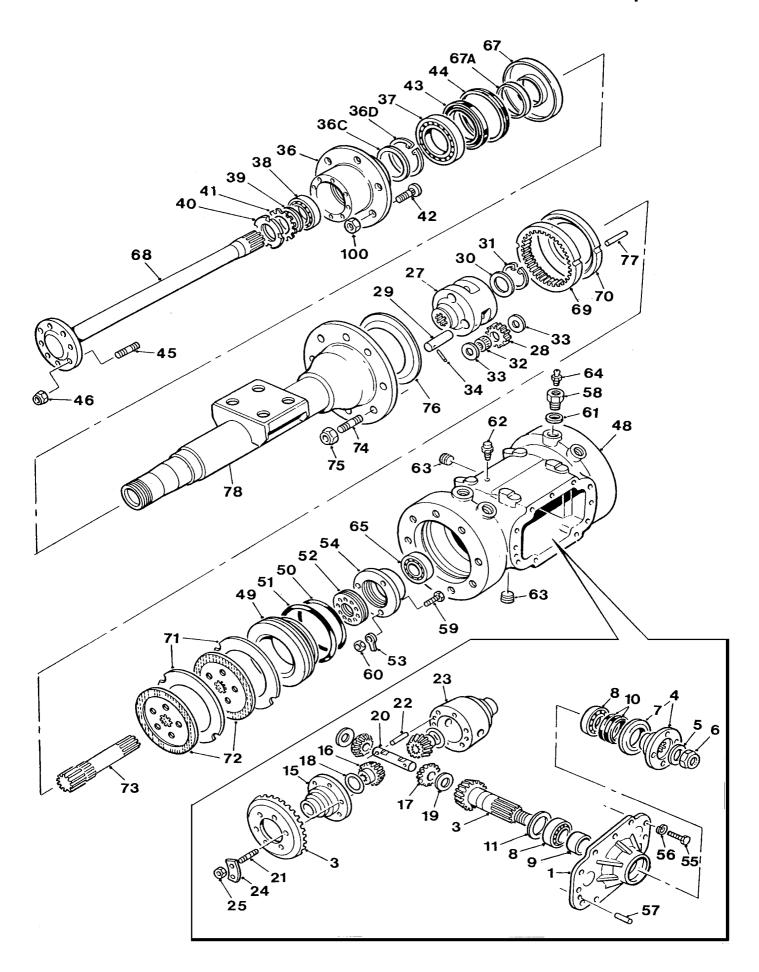


Up to dumper serial numbers: 0634 2B1000

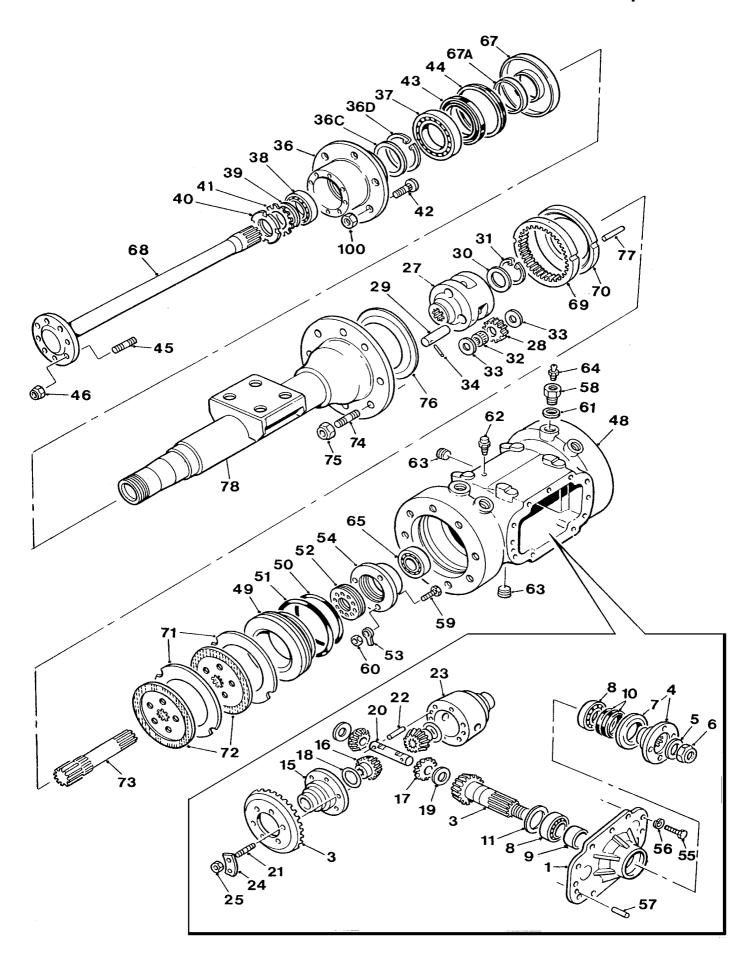
0835 **2B1500** 

- 30156A06	Qty
- 30156A06	
on axle casing)  AXLE, assy. (stamped 200RF14S3213 on axle casing)  Note: Items marked \$ should only be used on a marked 200RF14S129L on axle casing. Items marked + should only be used on axles on axle casing. Items marked + should only be used on axles on axled the should only be used on axles on axled the should only be used on axles on axled the should only be used on axled the should only	1
- 30156A10	4
Note: Items marked \$ should only be used on a marked 200RF14S129L on axle casing. Items marked + should only be used on axles of 200RF014S129L or 200RF14S3213 on axle cat All other items are common.	1
Note: Items marked \$ should only be used on a marked 200RF14S129L on axle casing. Items marked + should only be used on axles m 200RFD14S129L or 200RF14S3213 on axle ca All other items are common.           - 30156A0601         BEVEL WHEEL & PINION assy.           1 30156A0129         HOUSING, pinion           3 30156A0131         BEVEL WHEEL & PINION, (set)           5 30082A0231         WASHER           6 30082A0232         NUT           7 30156A0134         COVER, seal (part of item 3)           8 30156A0135         BEARING           9 30156A0136         SPACER           10 30156A0137         SEAL, oil           11 30156A0138         SHIM, 0.30mm           11 30156A0139         SHIM, 0.25mm           11 30156A0140         SHIM, 0.40mm           - 30156A0602         DIFFERENTIAL, assembly           15 30082A0301         1504167/         * + CASE, differential, L.H.           16 30082A0283         1504167/         * WHEEL, differential           17 30082A0284         PINION, differential           18 30082A0241         1504167/         * WASHER, thrust, wheel side           19 30082A0303         SPIDER           20 30082A0304         SPIDER           21 30082A0306         PIN, spirol	1
marked 200RF14S129L on axle casing. Items marked + should only be used on axles in 200RFD14S129L or 200RF14S3213 on axle ca All other items are common.  - 30156A0601 BEVEL WHEEL & PINION assy. HOUSING, pinion 30156A0163 BEVEL WHEEL & PINION, (set) FLANGE, input, assy. (with item 6 30082A0231 WASHER NUT COVER, seal (part of item 3) BEARING SPACER SEAL, oil SHIM, 0.30mm SHIM, 0.25mm SHIM, 0.40mm DIFFERENTIAL, assembly SHIM, 0.40mm DIFFERENTIAL, assembly SHIM, 0.40mm DIFFERENTIAL, assembly 15 30156A0131	xles
200RFD14S129L or 200RF14S3213 on axle car All other items are common.  BEVEL WHEEL & PINION assy. 1 30156A0129 3 30156A0163 4 30156A0131 5 30082A0231 6 30082A0232 7 30156A0134 8 30156A0135 9 30156A0136 9 30156A0136 10 30156A0137 11 30156A0138 11 30156A0139 11 30156A0140 - 30156A0144 - 1504166 - \$ CASE, differential, L.H CASE, differential - WHEEL, differ	
All other items are common.  - 30156A0601 1 30156A0129 3 30156A0163 4 30156A0131 5 30082A0231 6 30082A0232 7 30156A0134 8 30156A0135 9 30156A0136 9 30156A0137 11 30156A0138 11 30156A0138 11 30156A0139 11 30156A0140 - 30156A0171 15 30082A0201 15 30156A0141 15 30082A0283 17 30156A0144 18 30156A0144 18 30156A0144 18 30156A0144 18 30082A0284 18 30156A0144 18 30082A0242 20 30082A0303 21 30082A0304 22 30082A0306  BEVEL WHEEL & PINION assy. HOUSING, pinion BEVEL WHEEL & PINION, (set) HOUSING, pinion HOUSING,	
- 30156A0601 1 30156A0129 3 30156A0163 4 30156A0131 5 30082A0231 6 30082A0232 7 30156A0134 8 30156A0135 9 30156A0136 10 30156A0137 11 30156A0138 11 30156A0139 11 30156A0140 - 30156A0140 - 30156A0141 15 30082A0203 17 30156A0143 18 30156A0144 19 30082A0284 18 30156A0144 18 30082A0241 19 30082A0204 20 30082A0303 21 30082A0304 22 30082A0306  BEVEL WHEEL & PINION assy. HOUSING, pinion BEVEL WHEEL & PINION, (set) FLANGE, input, assy. (with item 6) WASHER NUT COVER, seal (part of item 3) BEARING SPACER SFAL, oil SHIM, 0.30mm SHIM, 0.25mm SHIM, 0.40mm DIFFERENTIAL, assembly CASE, differential, L.H. CASE, differential, L.H. WHEEL, differential PINION, differential WASHER, thrust, wheel side WASHER, thrust, wheel side WASHER, thrust, pinion side SPIDER STUD PIN, spirol	ing.
1 30156A0129 3 30156A0163 4 30156A0131 5 30082A0231 6 30082A0232 7 30156A0134 8 30156A0135 9 30156A0136 10 30156A0137 11 30156A0138 11 30156A0139 11 30156A0140 - 30156A0171 15 30082A0301 15 30082A0283 15 30082A0284 18 30156A0144 18 30082A0284 18 30156A0144 18 30082A0241 18 30156A0144 18 30082A0241 19 30082A0303 21 30082A0304 22 30082A0306  HOUSING, pinion BEVEL WHEEL & PINION, (set) FLANGE, input, assy. (with item 6 WASHER NUT COVER, seal (part of item 3) BEARING SPACER SEAL, oil SHIM, 0.30mm SHIM, 0.25mm SHIM, 0.40mm DIFFERENTIAL, assembly CASE, differential, L.H. CASE, differential, L.H. WHEEL, differential PINION, differential PINION, differential WASHER, thrust, wheel side WASHER, thrust, wheel side WASHER, thrust, wheel side SPIDER STUD PIN, spirol	
3 30156A0163 4 30156A0131 5 30082A0231 6 30082A0232 7 30156A0134 8 30156A0135 9 30156A0136 10 30156A0137 11 30156A0138 11 30156A0139 11 30156A0140 - 30156A0171 15 30082A0301 1 504167/ 17 30082A0284 18 30082A0241 19 30082A0303 21 30082A0304 22 30082A0306  BEVEL WHEEL & PINION, (set) FLANGE, input, assy. (with item 6 WASHER NUT COVER, seal (part of item 3) BEARING SPACER SEAL, oil SHIM, 0.30mm SHIM, 0.25mm SHIM, 0.40mm DIFFERENTIAL, assembly CASE, differential, L.H. CASE, differential, L.H. WHEEL, differential PINION, differential WASHER, thrust, wheel side WASHER, thrust, wheel side WASHER, thrust, wheel side SPIDER STUD PIN, spirol	1
4 30156A0131 5 30082A0231 6 30082A0232 7 30156A0134 8 30156A0135 9 30156A0136 10 30156A0137 11 30156A0138 11 30156A0139 11 30156A0140 - 30156A0171 15 30082A0301 1504167/ 16 30082A0284 17 30082A0242 20 30082A0303 21 30082A0304 22 30082A0306  FLANGE, input, assy. (with item 6 WASHER, thrust, wheel side WASHER, thrust, pinion side SPIDER STUD PIN, spirol	1
5 30082A0231	. 1
6 30082A0232 7 30156A0134 8 30156A0135 9 30156A0136 10 30156A0137 11 30156A0138 11 30156A0139 11 30156A0140 - 30156A0171 15 30082A0301 16 30082A0284 17 30082A0284 18 30156A0144 19 30082A0242 20 30082A0303 21 30082A0306  NUT COVER, seal (part of item 3) BEARING SPACER SEAL, oil SHIM, 0.30mm SHIM, 0.25mm SHIM, 0.40mm DIFFERENTIAL, assembly CASE, differential, L.H. WHEEL, differential PINION, differential PINION, differential WASHER, thrust, wheel side WASHER, thrust, wheel side WASHER, thrust, pinion side SPIDER STUD PIN, spirol	) 1 1
7 30156A0134 8 30156A0135 9 30156A0136 10 30156A0137 11 30156A0138 11 30156A0139 11 30156A0140 - 30156A0171 15 30082A0301 16 30082A0284 17 30082A0284 18 30156A0144 18 30082A0241 19 30082A0303 21 30082A0306  REARING SPACER SEAL, oil SHIM, 0.30mm SHIM, 0.40mm DIFFERENTIAL, assembly ** CASE, differential, L.H. ** CASE, differential ** WHEEL, differential ** WASHER, thrust, wheel side ** WASHER, thrust, wheel side ** WASHER, thrust, wheel side ** SPIDER ** STUD ** PIN, spirol	
8 30156A0135 BEARING 9 30156A0136 SPACER 10 30156A0137 SEAL, oil 11 30156A0138 SHIM, 0.30mm 11 30156A0140 SHIM, 0.40mm  - 30156A0602 DIFFERENTIAL, assembly 15 30156A0171 / 1504166 * \$ CASE, differential, L.H. 15 30082A0301 1504167/ * + CASE, differential 16 30082A0283 1504167/ + WHEEL, differential 17 30082A0284 PINION, differential 18 30156A0144 / 1504166 \$ WASHER, thrust, wheel side 18 30082A0241 1504167/ + WASHER, thrust, wheel side 19 30082A0242 WASHER, thrust, pinion side 20 30082A0303 21 30082A0304 22 30082A0306 STUD PIN, spirol	1 1
10 30156A0137	2
11 30156A0138 11 30156A0139 11 30156A0140 - 30156A0602 15 30156A0171 15 30082A0301 16 30082A0284 17 30082A0284 18 30156A0144 18 30156A0144 19 30082A0242 20 30082A0303 21 30082A0306  SHIM, 0.30mm SHIM, 0.25mm SHIM, 0.40mm DIFFERENTIAL, assembly  * CASE, differential, L.H.  * CASE, differential  * WHEEL, differential  * WHEEL, differential  * WHEEL, differential  * WASHER, thrust, wheel side  * WASHER, thrust, wheel side  * WASHER, thrust, wheel side  * WASHER, thrust, pinion side  * SPIDER  * STUD  * PIN, spirol	1
11       30156A0139       SHIM, 0.25mm         11       30156A0140       SHIM, 0.40mm         - 30156A0602       DIFFERENTIAL, assembly         15       30156A0171       / 1504166 *\$ CASE, differential, L.H.         15       30082A0301       1504167/       *+ CASE, differential, L.H.         16       30156A0143       / 1504166       \$ WHEEL, differential         16       30082A0283       1504167/       + WHEEL, differential         17       30082A0284       PINION, differential         18       30156A0144       / 1504166       \$ WASHER, thrust, wheel side         18       30082A0241       + WASHER, thrust, wheel side         19       30082A0303       WASHER, thrust, pinion side         20       30082A0303       SPIDER         21       30082A0306       STUD         22       30082A0306       PIN, spirol	2
11 30156A0140 - 30156A0602 15 30156A0171	AR
- 30156A0602 15 30156A0171	AR AR
15 30156A0171	
15 30082A0301 1504167/ * + CASE, differential, L.H.  16 30156A0143 / 1504166 \$ WHEEL, differential  16 30082A0283 1504167/ + WHEEL, differential  17 30082A0284 PINION, differential  18 30156A0144 / 1504166 \$ WASHER, thrust, wheel side  18 30082A0241 1504167/ + WASHER, thrust, wheel side  19 30082A0242 WASHER, thrust, wheel side  20 30082A0303  21 30082A0304  22 30082A0306 SPIDER  STUD  PIN, spirol	1 1
16 30156A0143	1
16 30082A0283 1504167/	2
18 30156A0144	2
18       30082A0241       1504167/       +       WASHER, thrust, wheel side         19       30082A0242       WASHER, thrust, pinion side         20       30082A0303       SPIDER         21       30082A0304       STUD         22       30082A0306       PIN, spirol	2
19 30082A0242 WASHER, thrust, pinion side 20 30082A0303 SPIDER 21 30082A0304 STUD 22 30082A0306 PIN, spirol	2
20 30082A0303 SPIDER 21 30082A0304 STUD 22 30082A0306 PIN, spirol	2
21       30082A0304       STUD         22       30082A0306       PIN, spirol	2
22 30082A0306 PIN, spirol	1
· ·	8
	1
23 30156A0173 / 1504166 * \$ CASE, differential, R.H. 23 30082A0302 1504167/ * + CASE, differential, R.H.	1 1
* L.H. & R.H. casings only supplied	ı
as matched pair.	

V601139 /Oct '02 continued>

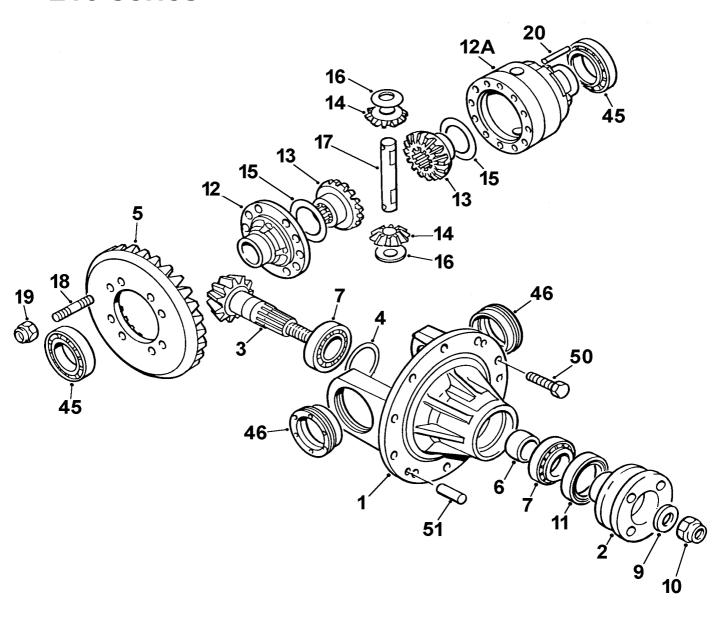


Item	Part no	Axle serial no	Description	Qty
24	30082A0305		WASHER, tab	4
25	7S04		NUT	8
-	30156A0604 V601154 30156A0801	/ April 87 May 87 / 1530214 1530215 /	<ul><li>\$ PLANET CAR., assy., 21 T spline</li><li>+ PLANET CAR., assy., 22 T spline</li><li>+ PLANET CAR., assy.</li></ul>	2 2 2
27	30156A0152	April 87	<ul> <li>\$ CARRIER, planet, 21 T spline</li> <li>+ CARRIER, planet, 22 T spline</li> <li>+ CARRIER, planet</li> </ul>	1
27	30156A0901	May 87 / 1530214		1
27	30156A0802	1530215 /		1
28	30156A0153	/ 1530214	GEAR, planet	3
28	30156A0803	1530215 /	GEAR, planet	3
29	30156A0154	/ 1530214	PIN, planet	3
29	30156A0804	1530215 /	PIN, planet	3
30 30 31	30156A0157 30156A0805 30082A0265	/ 1530214 1530215 /	SPACER, axle shaft SPACER, axle shaft CIRCLIP	1 1 1
32	30156A0178	/ 1530214	NEEDLE BEARING, (imperial)	3
32	30082A0289	1530215 /	NEEDLE BEARING, (metric)	
33	30082A0249		WASHER, thrust, planet	6
34	30156A0162		DOWEL, spring, 3x20mm	3
-	30156A0605		HUB, assembly	2
36 36 36C 36D	30156A0115 30156A0903 30156A0186 30156A0185	/ 1507133 1507134/ 1507134/ 1507134/	\$ HUB + HUB SPACER CIRCLIP	1 1 1
37	30082A0221		BEARING, hub, inner	1
38	30156A0118	/ 1507133	BEARING, hub, outer BEARING, hub, outer	1
38	30156A0180	1507134/		1
39	30156A0119	/ 1507133	SPACER	1
39	30156A0181	1507134/	SPACER	1
40	30156A0120	/ 1507133	NUT, locking	1
40	30156A0182	1507134/	NUT, locking	1
41	30156A0121	/ 1507133	WASHER, tab	1
41	30156A0183	1507134/	WASHER, tab	1
42	30156A0122		STUD, wheel	5
43	30156A0123	/ 1507133	SEAL, oil	1
43	30156A0184	1507134/	SEAL, oil	1



Item	Part no	Axle serial no	Description	Qty
44	30156A0124		SEAL, 'V' ring	1
45	30156A0126		STUD	8
46	59\$03		NUT, nylon insert	8
-	30156A0606		MAIN CASE, assembly	1
48 49	30156A0101 30156A0107		CASING, axle	1 2
50	30156A0107		PISTON, brake 'O' RING	2
51	30156A0198		O'RING	2
	30156A0109		NUT	2
53	30156A0110		LOCK PLATE	2
54	30156A0111		HOUSING, bearing	2
55	11S03C		SCREW, set	12
56	17S04		WASHER, spring	12
57 58	30156A0112 30156A0199		PIN, dowel ADAPTOR	2 4
56 59	11S04D		SCREW	6
60	59S03		NUT	6
61	30156A0155		SEAL, bonded	4
62	10305A01		VALVE, breather	1
63	30156A0127		PLUG, socket	2
64	30347A0211		VALVE, brake bleeding	2
65	119325000		BEARING, cup & cone kit	2
67	30156A0116		HOUSING, oil seal	2
67A	30156A0193	1507134/	SLEEVE	1
68	30156A0125	/ APRIL 87	·	2
68	30156A0201	MAY 87/	+ SHAFT, axle, 22 teeth spline	2
69	30156A0103	/ 1530214	ANNULUS	2
69	30156A0202	1530215 /	ANNULUS	2
	30156A0194	/ 1530214	PLATE, spacer	2
70	30156A0206	1530215 /	PLATE, spacer	2
71	30156A0105		PLATE, brake	4
72	30156A0106		DISC, brake	4
73	30156A0114	/ MAR 86	\$ GEAR, sun	2
73	30156A0907	MAR 86/	+ GEAR, sun	2
74	30156A0126		STUD	20
	59 <b>S</b> 03		NUT, nylon insert	20
	30156A0156		SHIELD	2
77	30156A0102		DOWEL	4
	30156A0172		\$ CASING, axle arm	2
	30156A0195		+ CASING, axle arm, R.H.	1
78	30156A0195LH		+ CASING, axle arm, L.H.	1
100			NUT, wheel (see page B - 1)	10

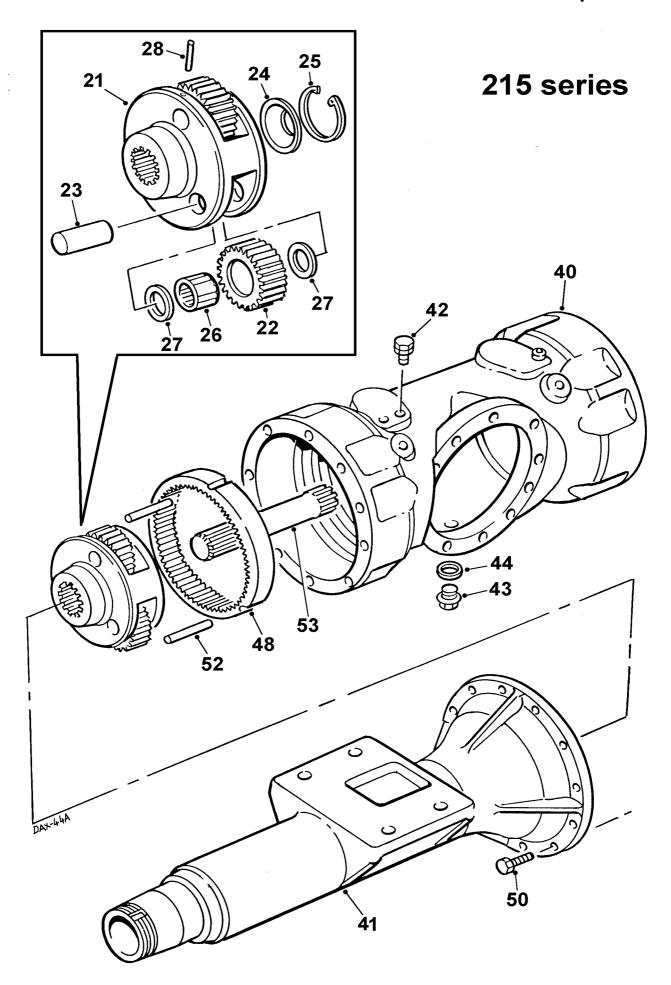
## 215 series



## **INPUT PINION & DIFFERENTIAL**

## Newage 215 series drive axle

Item	Part no	Serial no	Description	Qty
		0635 <b>/</b> 836 <b>/</b>	2B1000 2B1500	
1 2 3	30082A0401 30082A0402 30082A0403		PINION, input cartridge FLANGE, input drive, c/w seal shield PINION, supplied with item 5	1 1 1
4 	30082A0282 30082A0280 30082A0281		SHIM, 0.25mm SHIM, 0.3mm SHIM, 0.4mm	2 2 2
5 6	30082A0403 30082A0235		CROWN WHEEL & PINION SET SPACER	1 1
7 	30082A0234 30082A0274 30082A0273		BEARING, cup & cone assembly BEARING, cup BEARING, cone	2 1 1
	30082A0231 30082A0232 30082A0236		WASHER, plain NUT SEAL, oil	1 1 2
	30082A0404 30082A0405 30082A0283		COVER, differential CASING, differential WHEEL, differential	1 1 2
15	30082A0284 30082A0241 30082A0242		PINION, differential WASHER, thrust WASHER, thrust	2 2 2
17 18 19	30082A0303 30082A0406 59S03		SPIDER, differential, (half) STUD NUT, 'Nyloc'	1 8 8
20	30082A0306		PIN, Spirol	2
45 46	119325000 30082A0416		BEARING, cup & cone assy. NUT, bearing adjustment	2 2
50 51	8S04B 30156A0112		BOLT DOWEL, 10dia x 20mm	34 2

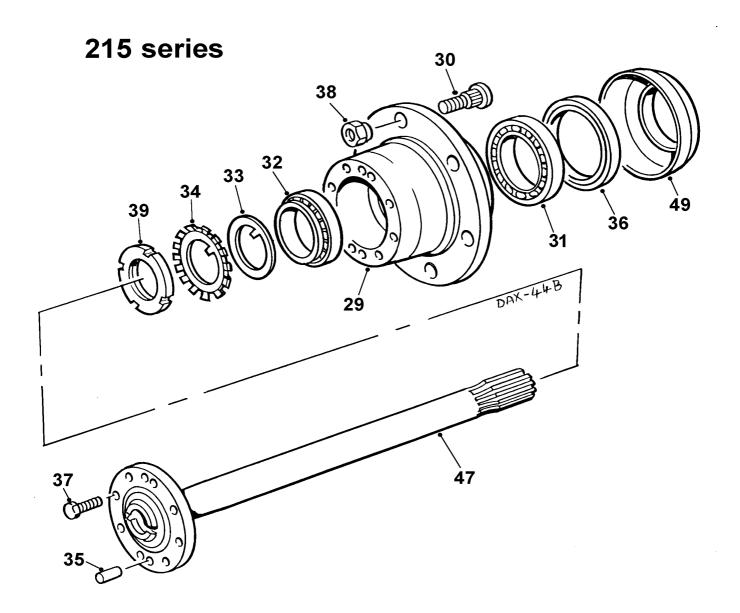


## **PLANET CARRIER & AXLE CASING**

## Newage 215 series drive axle

Item	Part no	Serial no	Description	Qty
		0635 <b>/</b> 836 <b>/</b>	2B1000 2B1500	
21	30156A0802		CARRIER, planet	1
22	30156A0803		GEAR, planet	3
23	30156A0804		PIN, planet	3
24	30156A0805		SPACER	1
25	30082A0265		CIRCLIP	1
26	30082A0289		BEARING, needle	3
27 28	30082A0249 30156A0162		WASHER, thrust DOWEL, spring	6
40	30082A0413		CASING, main	1
41	30082A0414		ARM, axle (1475mm)	2
42	30082A0415		BREATHER	1
43	30097A0163		PLUG, drain	2
44	100S04		SEAL, bonded	2
48	30156A0202		ANNULUS	2
50	8S04B		BOLT	34
52	30156A0102		DOWEL, 8dia x 60mm	4
53	30082A0418		GEAR, sun	2

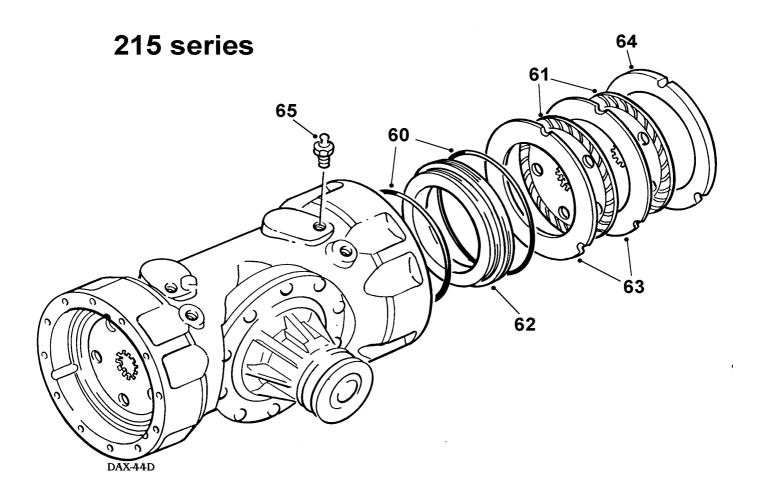
V601139 / Oct '02 continued>



## HUB & AXLE SHAFT Newage 215 series drive axle

Item	Part no	Serial no	Description	Qty
		0635 <b>/</b> 836 <b>/</b>	2B1000 2B1500	
29 30 31	30082A0407 30156A0122 30082A0408		HUB STUD, wheel BEARING	1 5 1
32 33 34	30082A0409 30082A0222 30347A0201		BEARING SPACER LOCKWASHER	1 1 1
35 36 37	30156A0112 30082A0410 8S04B		DOWEL, spring SEAL, oil BOLT	2 1 8
38 39 47	30082A0411 30082A0417		NUT, wheel (see "Wheels", page B-1) LOCKNUT SHAFT, axle (1475mm)	 1 2
49	30082A0422		COVER, seal, wheel hub	2

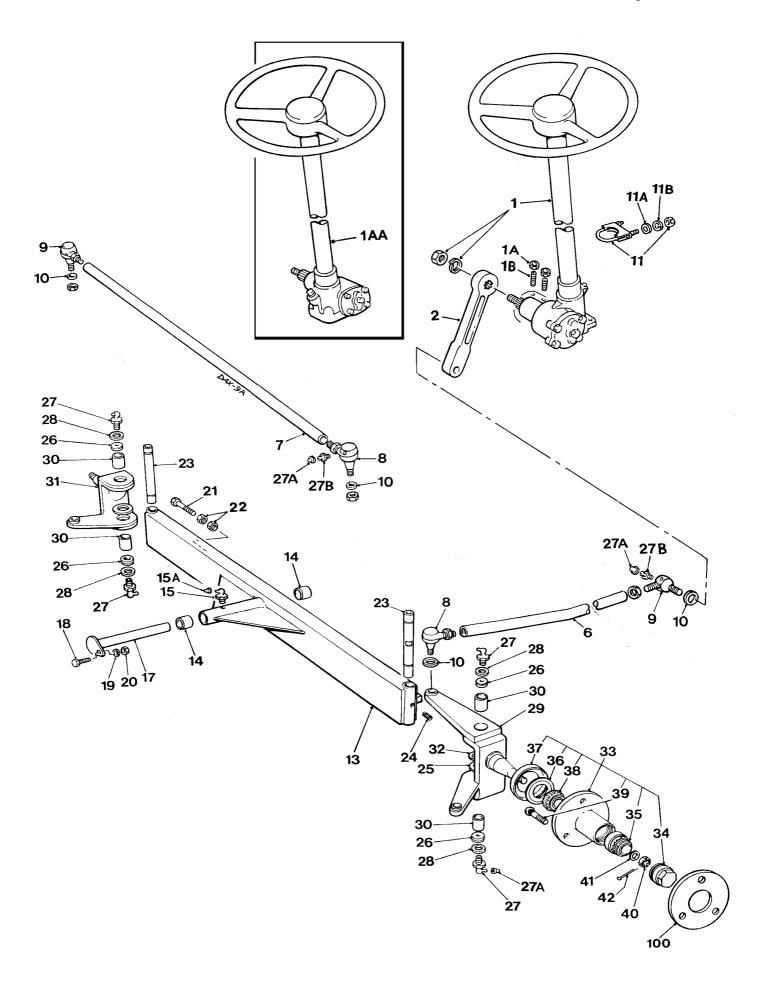
V601139 / Oct '02 continued >



BRAKES B - 8D

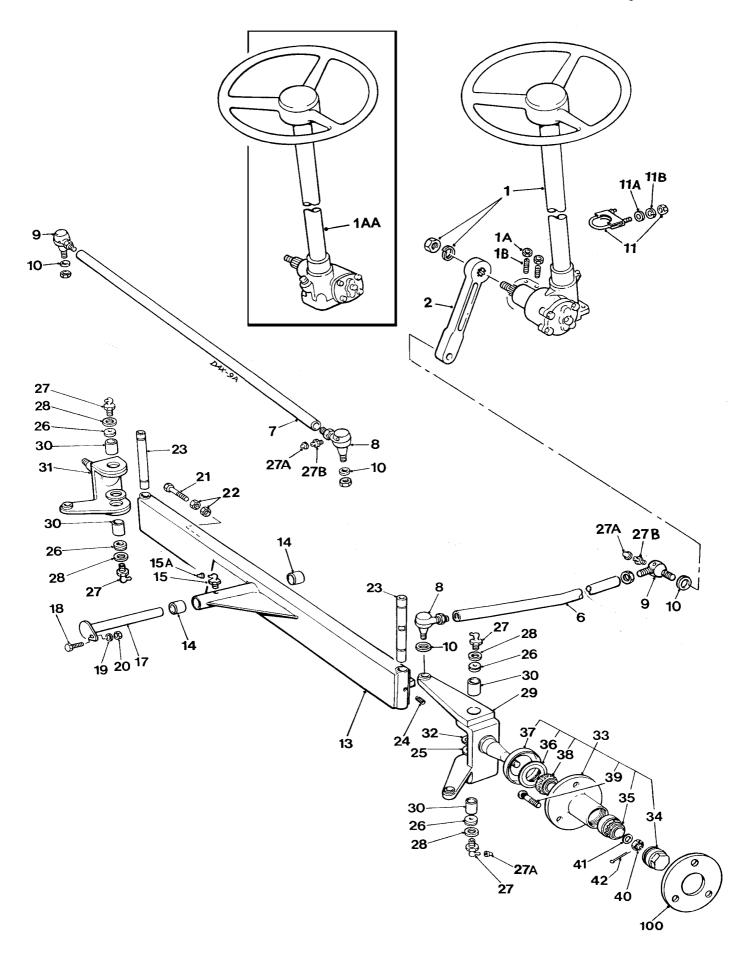
## Newage 215 series drive axle

Item	Part no	Serial no	Description	Qty
		0635 <b>/</b>	2B1000	
		836 <b>/</b>	2B1500	
60	30156A0108		KIT, 'O' ring seals, brake piston	1
*61	30156A0908		DISC, brake, sintered	4
62	30156A0107		PISTON, brake	2
*63	30156A0909		PLATE, brake, fixed	4
*64	30156A0910		SPACER, brake	2
65	30082A0419		VALVE, brake bleeding	1
	*30156A0911		Kit, brake plates, consisting of items marked *	

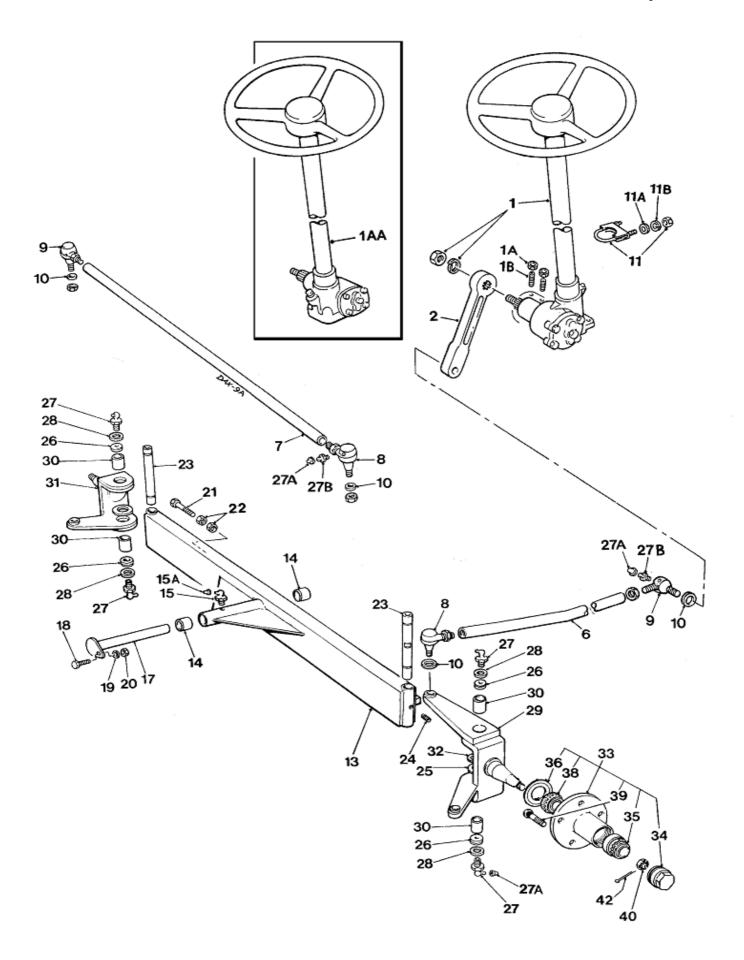


Item	Part no	Seri	al no	Description	Qty
	0604-0	646 2B1000	1	0575-1152-1153-2B1500	
1				STEERING COLUMN, L.H. type (see page. B - 9A)	1
1AA				STEERING COLUMN, R.H. type (see page. B - 9B)	1
1A	56S05			NUT, locking	2
1B	57S07H1			SCREW, socket head	2
2	40294A0101		#	DROP ARM	1
			#	Refer to note on steering box assembly. (see item 42A on page. B - 9A)	
6 6	10868A01 V2006343	1152/	/0646/1151	DRAG LINK, 3/4" UNF thread DRAG LINK, 11/16" UNF thread	1 1
7 7	L308T V2006336	1152/	/0646/1151	TRACK ROD, 3/4" UNF thread TRACK ROD, 11/16" UNF thread	1 1
8 8 8A	C159RH V2006335 95S13	1152/ 1152/ order one 9		BALL JOINT, RH 3/4" UNF c/w nuts BALL JOINT, RH 11/16" UNF c/w nut NUT THIN, lock RH 11/16" UNF each R.H. 11/16" UNF ball joint	2 2 2
9 9 9A	C159LH V2006334 272S17	1152/ 1152/ order one 2		BALL JOINT, LH 3/4" UNF c/w nuts BALL JOINT, LH 11/16" UNF c/w nut NUT THIN, lock LH 11/16" UNF each L.H. 11/16" UNF ball joint	2 2 2
10 10	10S04 267S07	1152/	/0646/1151	WASHER, flat 1/2" WASHER, flat M12	4 4
11 11A 11B	153S05 10S02 41S04			'U' BOLT, c/w nuts, <i>(discard clamp)</i> WASHER, flat WASHER,spring	1 2 2
13 14	30298A01 4SHL91			AXLE, steering BUSH, axle pivot	1 2
15 15A	131S02 176S01			NIPPLE, grease, 90 deg CAP, grease nipple	1 8
17 18	20161A05 8S04C			PIN, axle pivot BOLT	1 1
19 20	267S06 59S03			WASHER NUT, nylon insert	2

V6001139 / 1012 Continued >

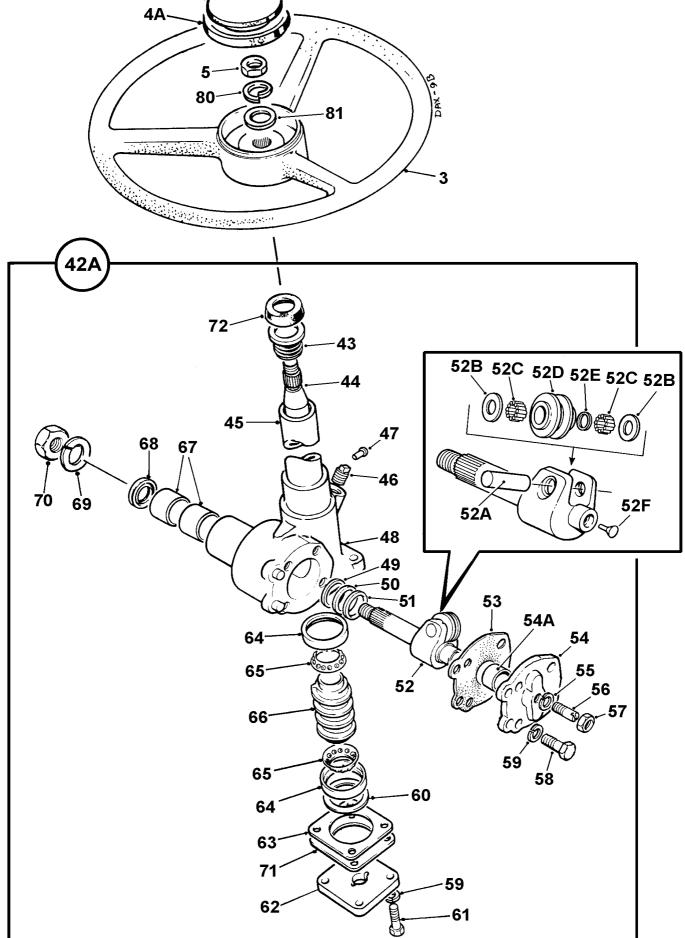


Item	Part no	Serial	no	Description	Qty
	060	04-2B1000		0575-2B1500	
21	11S06K		/0604/0575	SCREW, set	2
22	56S06		/0604/0575	NUT, locking	4
23	L264			KING PIN	2
24	185S05D4			SCREW, grub	2
25	C175			WASHER, thrust	2
26	C180A			WASHER, felt	4
27	131S02			NIPPLE, grease, 90 deg	4
27A	176S01			CAP, grease nipple	8
27B	131S01			NIPPLE, grease, straight	4
28	C180B			WASHER	4
29	L267RH		/1164	STUB AXLE, R.H. (3 Stud Hub)	1
	from 2B1500 S/l	No 1165 L2	267RH repla	nced by item 29 below	
	V2006347	1165/	-	STUB AXLE, R.H. (5 Stud Hub)	
30	C190			BUSH, king pin	4
31	L267LH		/1164	STUB AXLE, L.H. (3 Stud Hub)	1
	from 2B1500 S	/No 1165 L	.267LH rep	laced by item 31 below	
31	V2006346	1165/		STUB AXLE, L.H. (5 Stud Hub)	
32	C175			WASHER, thrust	4
				33 to 42 below replaced by	
5 stu	d hubs items 33	3 to 42 on p	-		
-	C186		/1164	HUB, assembly (3 Stud)	2
33	-			HUB (order assembly)	1
34	C186-A			HUB CAP	1
	C186-B			BEARING, hub, outer	1
36	C186-C			SEAL, oil, hub bearing	1
37	C186-D		/June 99	COVER, dust	1
				(The dust cover is no longer required)	
38	C186-E			BEARING, hub, inner	1
39	C186-F			STUD, wheel	3
40	92S07		/1164	NUT	1
41	10S05		/1164	WASHER	1
42	44S03C		/1164	PIN, split	1
100	V2004647	Oct 96 /	/1164	SPACER, (Fitted where needed)	2



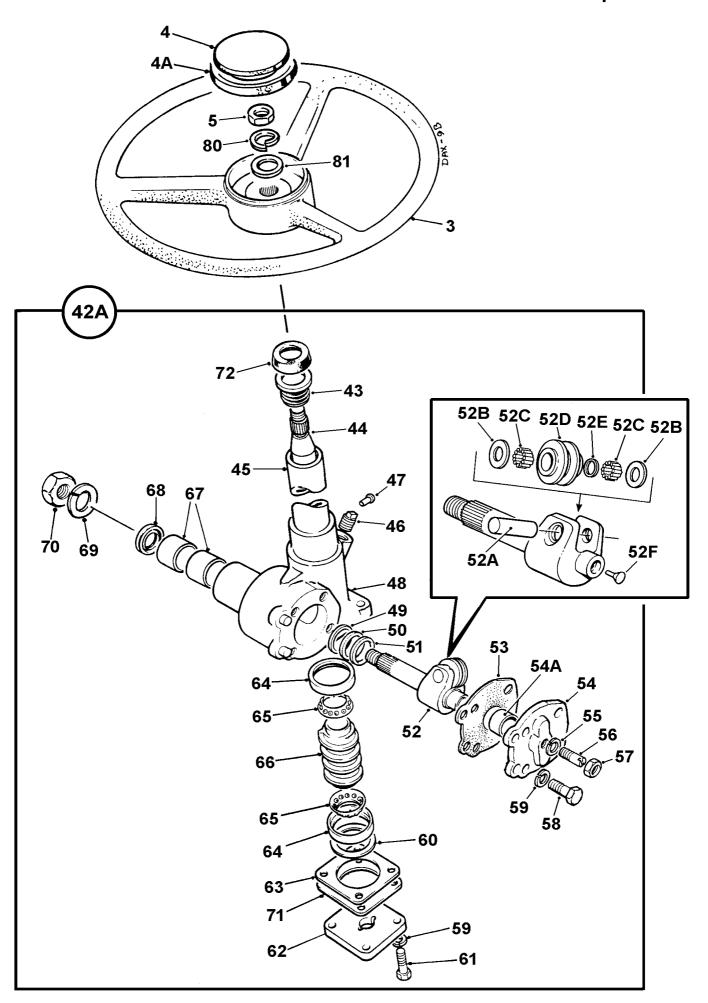
#### STEERING AXLE & STEERING COLUMN

Item	Part no	Serial no	Description	Qty
33	V602679	1165/	HUB, assembly (5 Stud)	2
			HUB (order V602679 assembly)	1
34	V602676	1165/	HUB CAP	1
35	V602666	1165/	BEARING, hub, outer	1
36	V602668	1165/	SEAL, oil, hub bearing	1
38	V602667	1165/	BEARING, hub, inner	1
39	V602677	1165/	STUD, wheel	5
40	V603755	1165/	NUT, slotted, 40mm across flats	1
42	44S04E	1165/	PIN, split	1



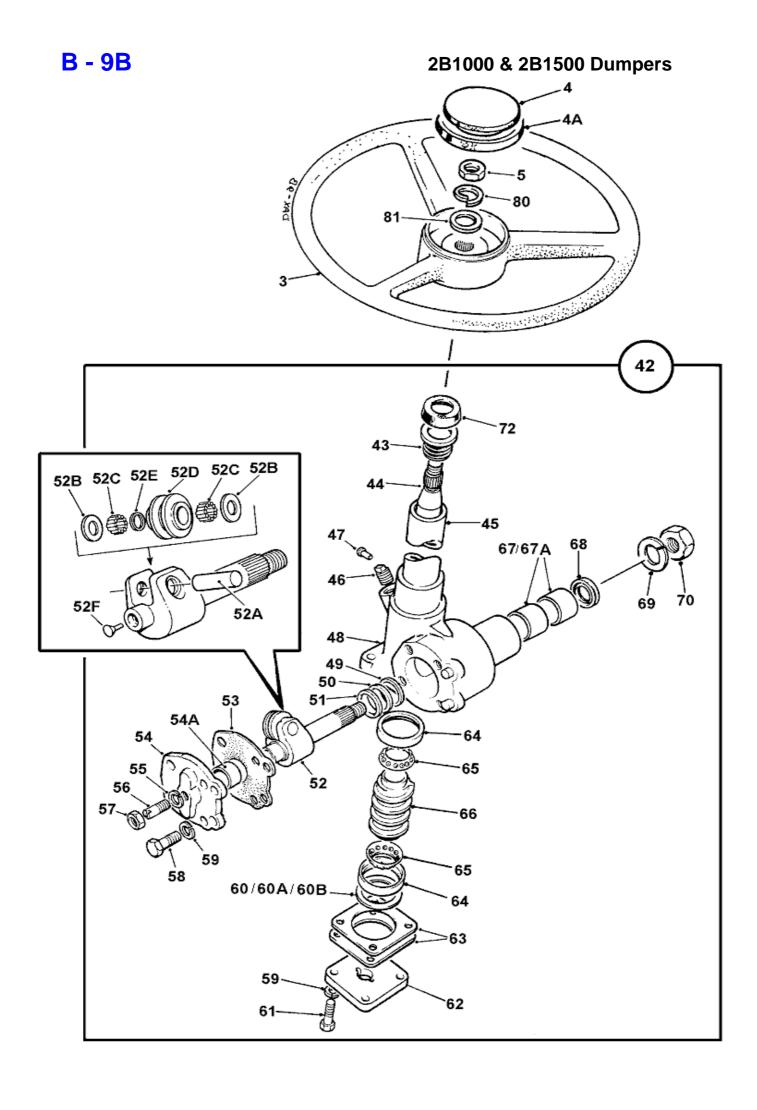
Item	Part no	Serial no	Description	Qty
3	40064A01	/ (year)1989	WHEEL, steering, 400mm dia (OBSOLETE: use V2002350)	1
4	10314A01	/ (year)1989	CAP, (Used only with wheel 40064A01)	1
3 4 4A	V2002350 V2003160 V601233	(year)1989 / (year)1989 / (year)1989 /	WHEEL, steering, 400mm dia., assy. CAP REDUCER	1 1 1
5	9S05	(year) 1303 /	NUT	1
		/ 0635 / 852	2B1000 2B1500	
42A 42A			STEERING BOX, 30" shaft, assembly STEERING BOX, 33" shaft, assembly	1 1
	Type 11077. Ti keyway, not sp Replacement p	he drop arm connection lined.	e dumpers were fitted with steering box shaft for this assembly is tapered with a re not available. Steering box 40294A02 B - 9) must be ordered.	1
43	40294A0102		BUSH, column, top	1
44	40294A0103		SHAFT, inner	1
45	40294A0104		TUBE, outer	1
46	40294A0105		PLUG, oil	1
47	40294A0106		PIN	1
48	40294A0107		STEERING BOX	1
49	40294A0108		WASHER, thrust	2
50	40294A0109		SHIM	AR
51	40294A0110		WASHER, thrust	2
52	40294A0111		ROCKER SHAFT, assembly	1
52A	40294A0140		PIN	1
52B			WASHER, thrust	2
52C			BEARING, needle	42
52D			ROLLER	1
	40294A0144		SPACER, bearings	1
52F	40294A0145		PLUG	1

V6001139 / Feb '05 continued >



## STEERING COLUMN, L.H. type Up to Oct 2002

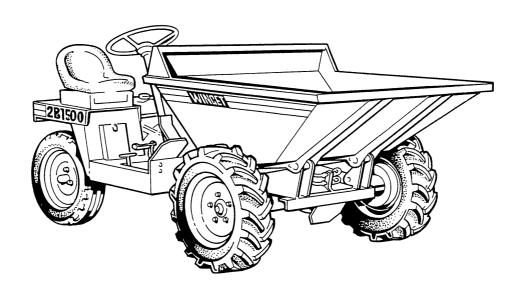
Item	Part no	Serial no	Description	Qty
		/ 0636	2B1000	
		/ 853	2B1500	
53	40294A0112		GASKET	AR
_	40294A0113		PLATE, cover, c/w bush	1
54A	40294A0138		BUSH	1
	41S08		WASHER, spring	1
	40294A0115		SCREW, adjuster	1
57 59	40294A0116 28S02C		NUT, locking SCREW, set	1 4
59	41S04		WASHER, spring	8
60	40294A0119		WASHER	1
61	28S02D		SCREW, set	1
62	40294A0121		CAP, bottom	1
63	40294A0122		SHIM, set	AR
64	40294A0123		RACE, outer	2
65	40294A0124		CAGE & BALLS	2
66	40294A0125		CAM	1
67	40294A0126		BUSH	2
68	40294A0127		SEAL, oil	1
69	41S13		WASHER, spring	1
70	40294A0129		NUT	1
71	40294A0130		LINER, bottom cap	2
72	40294A0131		SHROUD, column, inner	1
80	17S08		WASHER, spring	1
81	10S06		WASHER, flat	1



Item	Part no	Serial no	Description	Qty
		0636 / 853 /	2B1000 2B1500	
3 4 4A	V2002350 V2003160 V601233		WHEEL, steering, 400mm dia., assy. CAP REDUCER	1 1 1
5	9S05		NUT	1
42	40294A03		STEERING BOX, and shaft, assembly	1
43 44	40294A0102 40294A0134		BUSH, column, top SHAFT, inner	1 1
45 47 48 49 49	40294A0132 40294A0106 40294A0133 40294A0108 40294A0139		TUBE, outer PIN STEERING BOX, R.H. WASHER, thrust WASHER, thrust	1 1 1 1
50 51	40294A0109 40294A0110		SHIM, set WASHER, thrust	AR 2
52B 52C	40294A0136 40294A0140 40294A0142 40294A0143 40294A0141 40294A0144 40294A0145		ROCKER SHAFT, assembly, R.H. PIN WASHER, thrust BEARING, needle ROLLER SPACER, bearings PLUG	1 1 2 42 1 1 1
53 54 54A	40294A0112 40294A0137 40294A0138		GASKET PLATE, cover, c/w bush BUSH, for cover plate	AR 1 1
55 56 57 58 59	41S08 40294A0115 40294A0116 28S02C 41S04		WASHER, spring SCREW, adjuster NUT, locking SCREW, set WASHER, spring	1 1 1 4 8
60 60A 60B 61 62 63 64	40294A0119 40294A0146 40294A0147 28S02D 40294A0121 40294A0122 40294A0123		WASHER SHIM, .005 SHIM, .010 SCREW, set CAP, bottom SHIM, set RACE, outer	1 A/R A/R 1 1 AR 2

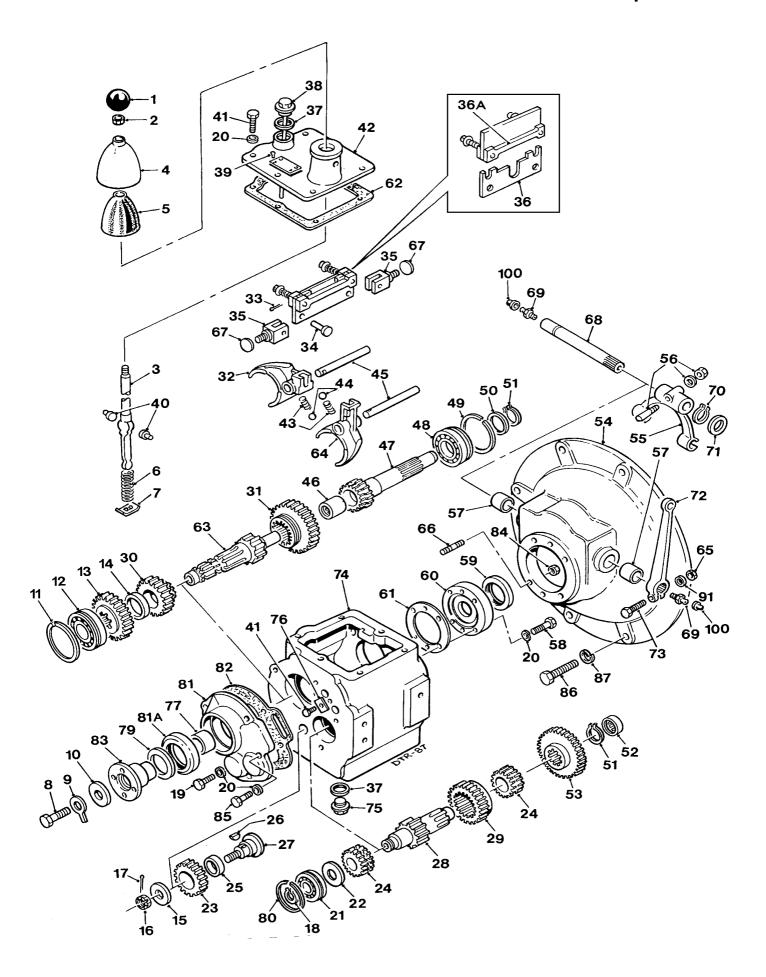
Item	Part no	Serial no	Description	Qty
		0636 /	2B1000	
		853 /	2B1500	
contir	nued >			
65	40294A0124		CAGE & BALLS	2
66	40294A0135		CAM, R.H.	1
67	40294A0126		BUSH, solid	2
67A	40294A0126A		BUSH, split	2
68	40294A0127		SEAL, oil	1
69	41S13		WASHER, spring	1
42	40294A0129		NUT	1
72	40294A0131		SHROUD, column, inner	1
			, ,	•
80	17S08		WASHER, spring	1
81	10S06		WASHER, flat	1

# 2B1000 & 2B1500 DUMPERS



## **Transmission**

GEARBOX	
Used with Newage axle	C - 1
GEARBOX	
Used on 2B1000 with Salisbury axle	<b>C - 2</b>
GEARBOX	
Used on 2B1500 with Salisbury axle	<b>C - 2A</b>
FLYWHEEL & CLUTCH	<b>C</b> - 3
CLUTCH PEDAL	C - 4
PROPELLER SHAFT	<b>C - 5</b>



Item Part no Serial no Description Qty

#### \$ From gearbox batch no. B1238.

When replacing Layshaft 30101A0223 (item 28) on gearboxes prior to batch no B1238, a Layshaft kit 30101A0268 must be ordered.

This kit consists of Layshaft 30101A0266 (item 28), Bearing 30101A0267 (item52) and Dipstick 30218A0248 (item 38).

The kit replaces the previous assembly of Layshaft 30101A0223 with Bush 30101A0244, and also Dipstick 30101A0232.

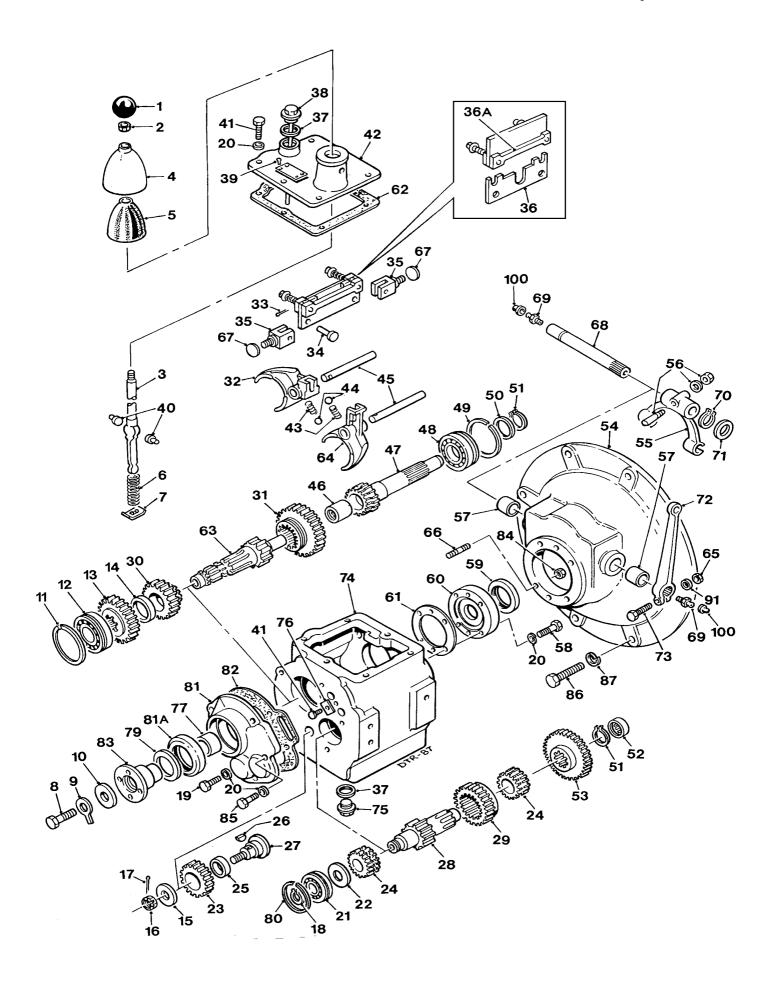
The two Layshaft assemblies are interchangable.

When the Layshaft kit has been fitted it is necessary to increase the gearbox oil capacity from .85 litres to 2 litres, hence the inclusion of a shorter dipstick in the kit.

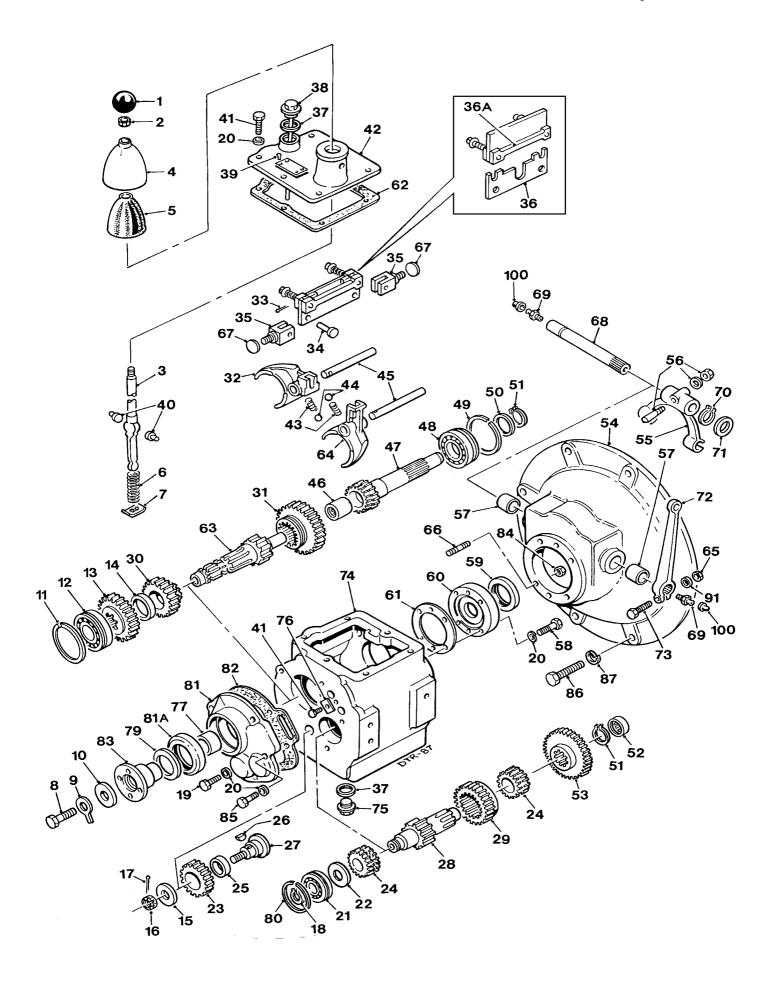
#### # From gearbox serial number 0155335 (April 1993)

Needle roller bearing (item 52) changed from an imperial to to a metric dimension. This change also affected the Layshaft (item 28) and Casing (item 74). See Layshaft Kit (item 28)

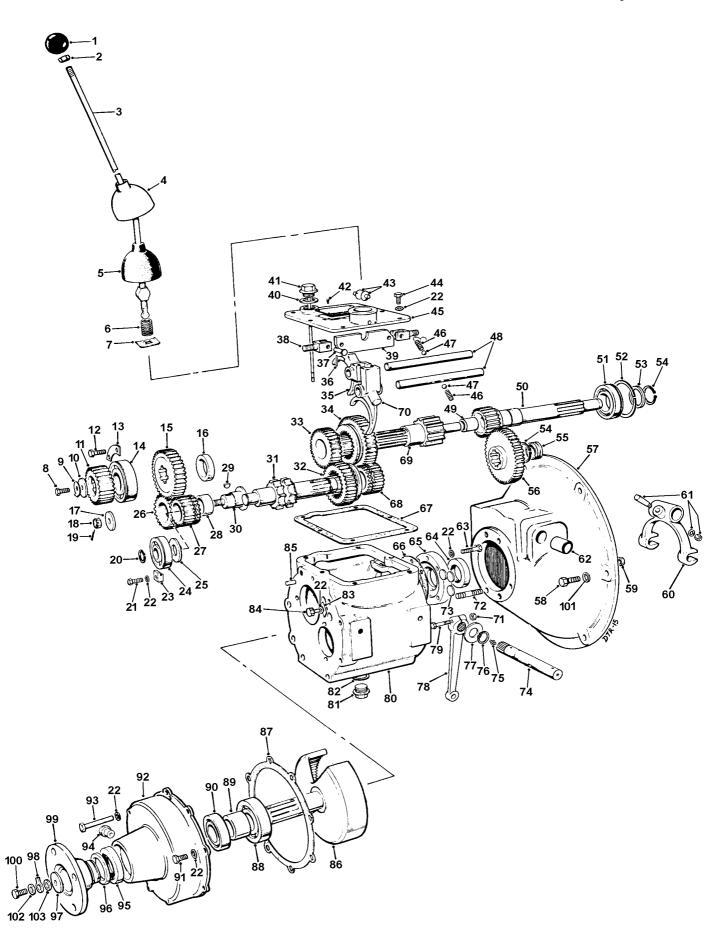
		GEARBOX, (40M2S322), assembly, KNOB, gear lever NUT, locking LEVER, gear CAP, gear lever	1 1 1 1
6 7 8	30101A0204 30101A0205 30101A0206 28S05E 30101A0207	GAITER, gear lever SPRING, gear lever PLATE, gear lever retaining BOLT WASHER, tab	1 1 1 1
11 12 13	30101A0208 30101A0209 88S06E 30101A0211 30101A0212	WASHER RING, snap BEARING, mainshaft, rear GEAR, output SPACER, output gear	1 1 1 1
16 17	30101A0213 102S04 44S02C 30218A0206 28S01D	WASHER, reverse pinion shaft NUT, slotted PIN, split CIRCLIP BOLT	1 1 1 1 3
20 20 21 22 23	13S02 30039A0169 88S04E 30101A0217 30101A0218 30101A0219	WASHER, <b>OBSOLETE: use 30039</b> WASHER, nylon BEARING, layshaft SPACER, bearing PINION, reverse GEAR, reverse	9 1 1 2 2



	`			,	
Item	Part no	Serial no	D	escription	Qty
25	30101A0220			BUSH, reverse pinion	1
26	30101A0221			KEY	1
27	30101A0222			SHAFT, reverse pinion	1
28	30101A0223	/ \$		LAYSHAFT	1
28	30101A0266	\$ /		LAYSHAFT, <b>OBSOLETE</b> :	
				use kit 30101A0268	
28	30101A0268	\$ / 0155334	#	LAYSHAFT, Kit (Imperial)	1
				(Kit includes items: 28, 52, 37, 38)	
28	30101A0280	0155335 /	#	LAYSHAFT (Metric)	1
29	30101A0224			GEAR, 2nd speed, sliding	1
30	30101A0225			GEAR, 2nd speed	1
31	30101A0226			GEAR, 1st speed	1
32	30101A0227			FORK, 2nd & 3rd selector	1
33	44S01C			PIN, split	2
34	30101A0228			PIN, clevis	2
35	30101A0229			CLEVIS, interlock plate	2
36	30101A0230	/ OCT 91		PLATE, non-interlock, <b>OBSOLETE</b>	1
	30101A0276	OCT 91 /		PLATE, interlock	1
36A	30101A0275	OCT 91 /		SPRUNG INTERLOCK,	4
				c/w installation tool	1
37	42S05			WASHER, sealing	2
38	30101A0232	/\$		DIPSTICK, (flange to bottom =7")	1
38	30218A0248	\$ /		DIPSTICK, (flange to bottom =6")	1
39	<del></del>			SCREW, drive (for serial no. plate)	4
40	30101A0234			PAD, gear lever	2
41	28S01C			BOLT	7
42	30101A0235			COVER, top	1
43	30097A0185			SPRING, detent	2
44 45	30097A0199			BALL, detent	2
45 46	30101A0237 30101A0238			SHAFT, selector BEARING, needle (part of item 47)	1
47	30101A0239			SHAFT, primary, assy. (with item46)	-
48	88S16F			BEARING, input	1
49	30101A0241			RING, snap	1
50	30101A0242			SPACER, bearing	1
51	30101A0243			CIRCLIP	2
52	30101A0244/	/ \$		BUSH, layshaft	1
52	30101A0267	\$ / 0155334	#		1
52	30101A0279	0155335 /	#	BEARING (Metric), layshaft	1
53	30101A0245			GEAR, 1st reduction	1
54	30101A0246			HOUSING, clutch	1
55	30097A0110			FORK, clutch release	1
56	30097A0111			COTTER, NUT & WASHER	1



Item	Part no	Serial	no	Description	Qty
57 58 59	30097A0114 6S01A 30101A0247			BUSH, cross shaft BOLT SEAL, (part of item 60)	2 4 1
63	30101A0248 30101A0249 30101A0250 30101A0251 30101A0252			COVER, front assy. (with item 59) GASKET, front cover GASKET, top cover OUTPUT SHAFT FORK, selector, 1st & reverse	1 1 1 1
65 66 67 68 69	9S01 30101A0253 30101A0254 30101A0255 131S06			NUT STUD PLUG SHAFT, clutch cross NIPPLE, grease	1 6 3 1 2
71 72	30101A0256 30097A0133 30097A0109 6S01C			CIRCLIP WASHER, cross shaft LEVER, clutch release BOLT	1 1 1 1
74 74	30101A0258 30101A0281	/ 0155335 /	0155334	# CASE, gearbox # CASE, gearbox	1 1
76	30097A0163 30101A0259 30101A0260 30101A0265			PLUG, drain STRIP, selector locking SPACER SHIELD, dust	1 1 1 1
80 81 81A 82 83 84	30101A0261 30101A0262 89S02 30101A0263 30218A0203 107S03			RING, snap COVER, output, assembly SEAL, oil GASKET, output cover COUPLING NUT	1 1 1 1 1 6
85	6S01B			BOLT	2
86 86 86	3S03E 69S03E 66S03A			SCREW, Petter PH engine BOLT, Lister ST engine SCREW, Lister-Petter TR & TS eng	8 8 3. 8
87	41S05			WASHER, spring	8
88 89	30143A0111 30143A0101			<ul> <li>* WASHER, fibre</li> <li>* WASHER, fibre</li> <li>* Fibre washers, items 88 &amp; 89, are robsolete. They were used to seal the washer item 10. The washer item 1 is now installed with a silicone sealed</li> </ul>	ne O
91 100	67S01 176S01			WASHER, shake proof CAP, grease nipple	1 2



Item Part no Serial no Description Qty

#### \$ From gearbox batch no. B1238.

When replacing Layshaft 30101A0223 (item 31) on gearboxes prior to batch no B1238, a Layshaft kit 30101A0268 must be ordered.

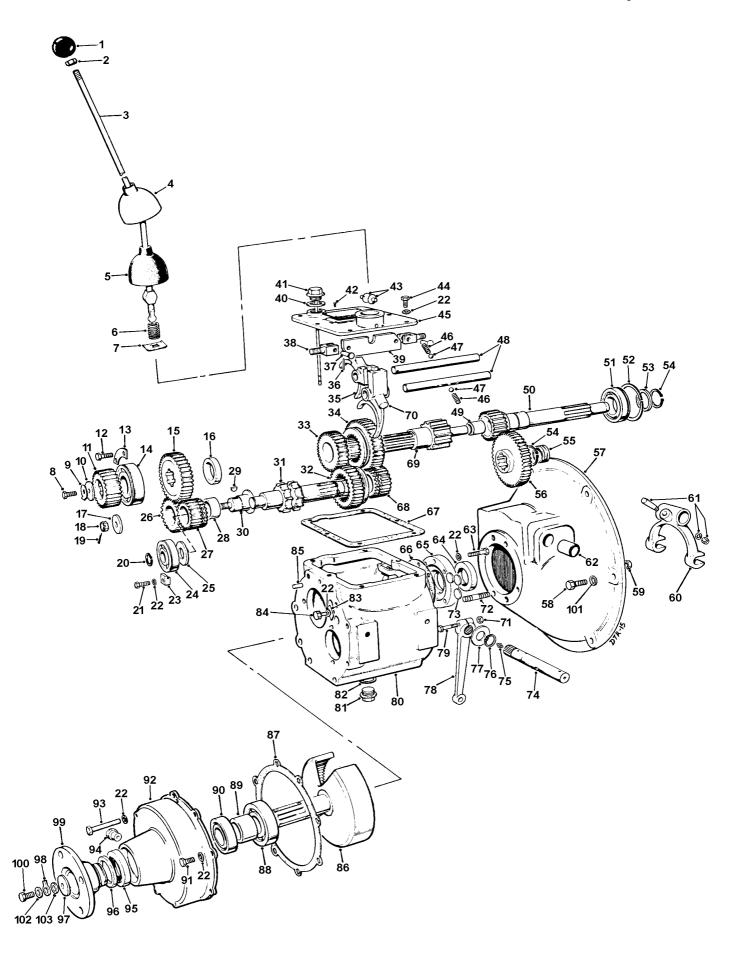
This kit consists of Layshaft 30101A0266 (item 31), Bearing 30101A0267 (item55) and Dipstick 30218A0248 (item 41).

The kit replaces the previous assembly of Layshaft 30101A0223 with Bush 30101A0244, and also Dipstick 30101A0232.

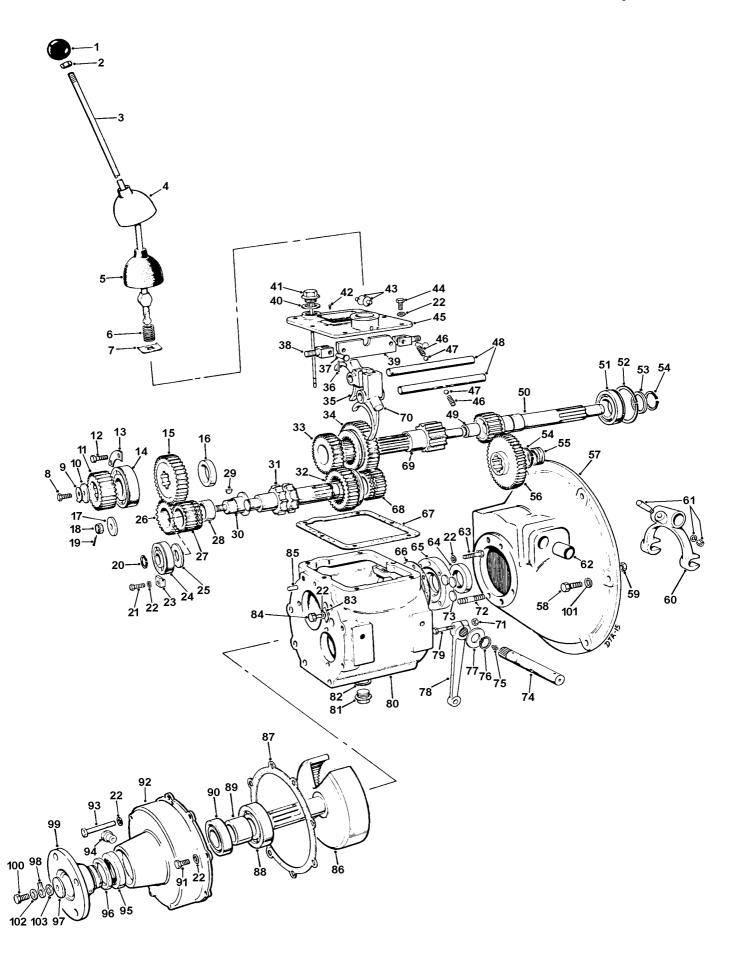
The two Layshaft assemblies are interchangable.

When the Layshaft kit has been fitted it is necessary to increase the gearbox oil capacity from .85 litres to 2 litres, hence the inclusion of a shorter dipstick in the kit.

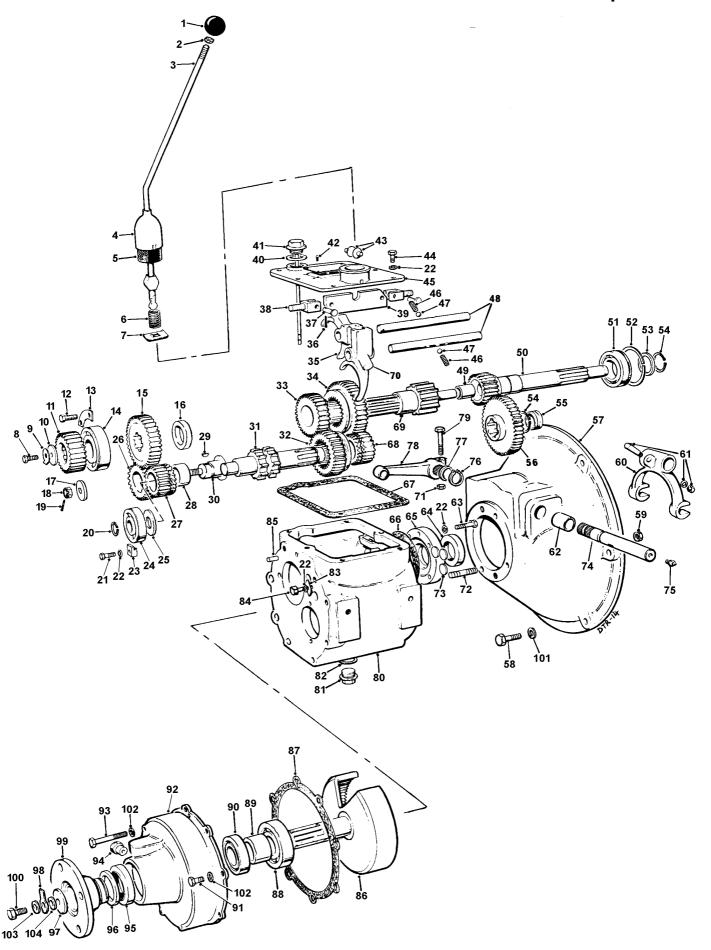
		moration of a chorter appeared in the file.
-	30106A01	GEARBOX, assembly 1
1	30101A0201	KNOB, gear lever 1
2	95S03	NUT, locking 1
3	30106A0102	LEVER, gear 1
4	30101A0203	CAP, gear lever 1
5	30101A0204	GAITER, gear lever 1
6	30101A0205	SPRING, gear lever 1
7	30101A0206	PLATE, retaining 1
8	28S03E	SCREW 1
9	30190A0101	WASHER, tab 1
10	30190A0102	WASHER 1
11	30190A0103	PINION, reduction 1
12	28S01B	SCREW 2
13	30097A0133	RETAINER, bearing, small 1
14	88S06E	BEARING, mainshaft, rear 1
15	30101A0211	GEAR, output 1
16	30101A0212	SPACER, output gear 1
17	30101A0213	WASHER 1
18	102S04	NUT, slotted 1
19	44S02C	PIN, split 1
20	30101A0215	CIRCLIP 1
21	28S01D	SCREW 2
22	67S01	WASHER, shake proof 12
23	30190A0105	CLIP, layshaft bearing 2
24	88S04E	BEARING, layshaft 2
25	30101A0217	SPACER, bearing 1
26	30101A0218	PINION, reverse 1
	30101A0219	GEAR, reverse speed 1
	30101A0220	BUSH, reverse pinion 1
29	30101A0221	KEY 1
30	30101A0222	SHAFT, reverse pinion 1



Item	Part no	Serial	no	Description	Qty
31	30101A0223		\$	LAYSHAFT	1
31	30101A0266	\$ /		LAYSHAFT	1
32	30101A0224			GEAR, 2nd speed sliding	1
33	30101A0225			GEAR, 2nd speed	1
34	30101A0226			GEAR, 1st speed	1
35	30101A0227			FORK, selector, 2nd & 3rd	1
36	44S01C			PIN, split	2
37	30101A0228			PIN, clevis	2
38	30101A0229			CLEVIS, interlock	2
39 40	30101A0230 42S05			PLATE, interlock	1
			Φ.	SEAL, dipstick	1
41	30101A0232	/ <u>;</u>	\$	DIPSTICK, (flange to bottom =7")	1
41	30218A0248	\$ /		DIPSTICK, (flange to bottom =6")	1
42				SCREW, drive (for serial no. plate)	4
43	30101A0234			PAD, gear lever	2
44	28S01C			SCREW	6
45	30101A0235			COVER, top	1
46	30097A0185			SPRING, detent	2
47 48	30097A0199 30101A0237			BALL, detent	2 2
40 49	30101A0237			SHAFT, selector BEARING, needle (part of item 50)	1
50 51	30101A0239 88S16F			SHAFT, primary, assy. (with item 49) BEARING, input	1 1
52	30101A0241			RING, snap	1
	30101A0242			SPACER, bearing	1
54	30101A0243			CIRCLIP	2
55		/	\$	BUSH, layshaft	1
55	30101A0267	\$ /	Ψ	BEARING, layshaft	1
	30101A0245	Ψ,		GEAR, reduction, 1st	1
	30101A0245			HOUSING, clutch	1
	3S03E			SCREW, set, Petter engine	8
58	69S03E			SCREW, set, Lister engine	8
59	9S03			NUT	6
60	30097A0110			FORK, clutch release	1
61	30097A0111			COTTER, nut & washer	1
	30097A0114			BUSH, cross shaft	2
	6S01B			BOLT	4
	30101A0247			SEAL, (part of item 65)	1
65 66				COVER, front, assy. (with item 64)	1
66 67	30101A0249 30101A0250			GASKET, front cover GASKET, top cover	1
	30101A0219			GASKET, top cover GEAR, reverse speed	1
	30190A0106			OUTPUT SHAFT	1
	30101A0252			FORK, selector, 1st & reverse	1
-	9S01			NUT	-



Item	Part no	Serial no	Description	Qty
73	30101A0253 30101A0254 30101A0255		STUD DISC, sealing, selector shaft CROSS SHAFT, clutch	6 3 1
76 77 78	131S06 30101A0256 30097A0133 30097A0109 6S01C		NIPPLE, grease CIRCLIP WASHER, cross shaft LEVER, clutch release BOLT	2 1 1 1
81 82 83	30101A0262 30097A0163 42S05 30101A0259 28S01C		CASING PLUG, drain SEAL, drain plug STRIP, selector locking SCREW, set	1 1 1 1 2
86 87	30097A0155 30190A0110 30190A0112 30190A0111 30101A0260		DOWEL GEAR, internal GASKET, reduction housing BEARING, internal gear front SPACER	2 1 1 1
90 91 92 93 94	30190A0113 28S02D 30190A0114 6S02J 30097A0171		BEARING, internal gear rear SCREW HOUSING, reduction BOLT BREATHER	1 4 1 4 1
95 96 97 98 99			SEAL, oil, rear SHIELD, dust WASHER, coupling WASHER, locking COUPLING	1 1 1 1
100 101 102 103	28S05E 41S05 30143A0111 30143A0101 176S01		SCREW WASHER, spring WASHER, fibre WASHER, fibre CAP, grease nipple (not illustrated)	1 8 1 1 2



Item Part no Serial no Description Qty

## \$ From gearbox batch no. B1238.

When replacing Layshaft 30101A0223 (item 31) on gearboxes prior to batch no B1238, a Layshaft kit 30101A0268 must be ordered.

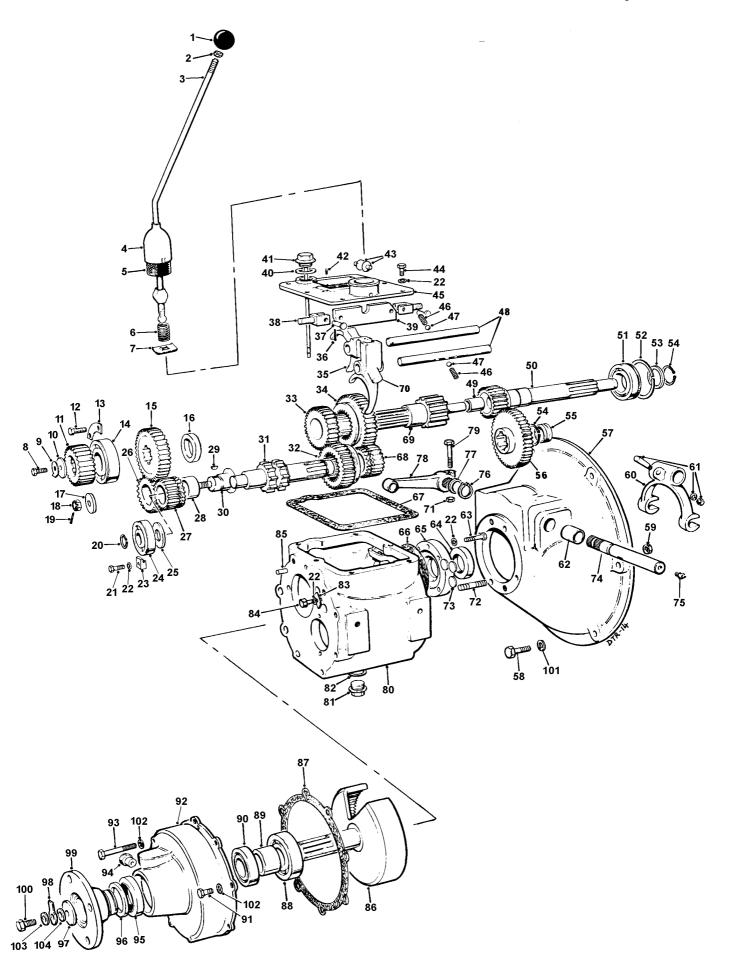
This kit consists of Layshaft 30101A0266 (item 31), Bearing 30101A0267 (item55) and Dipstick 30218A0248 (item 41).

The kit replaces the previous assembly of Layshaft 30101A0223 with Bush 30101A0244, and also Dipstick 30101A0232.

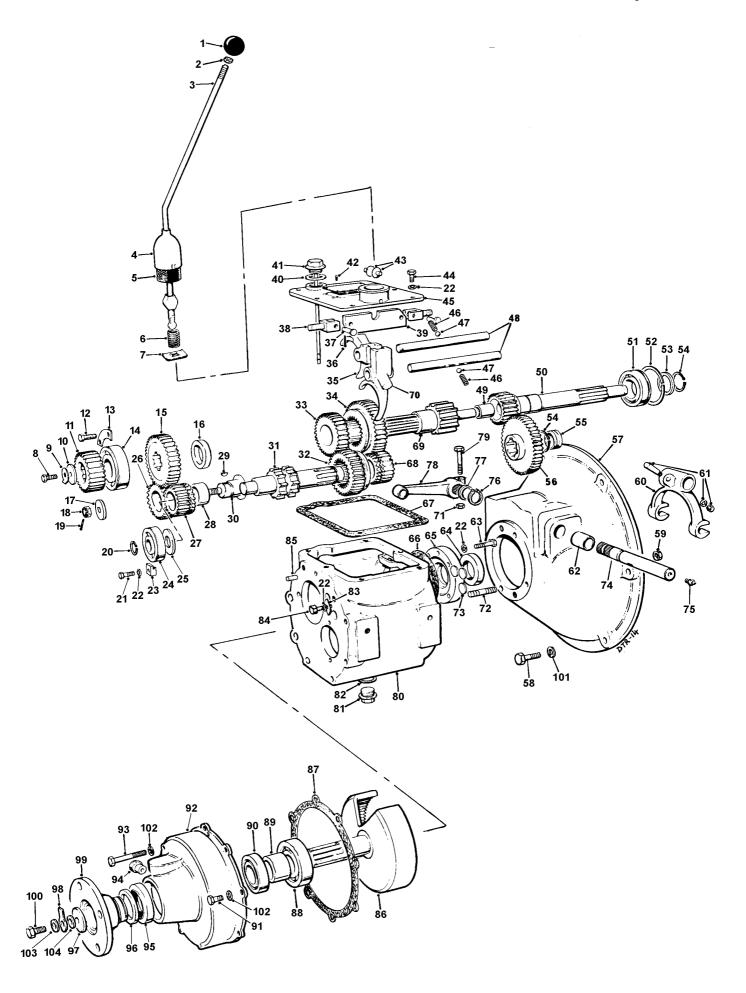
The two Layshaft assemblies are interchangable.

When the Layshaft kit has been fitted it is necessary to increase the gearbox oil capacity from .85 litres to 2 litres, hence the inclusion of a shorter dipstick in the kit.

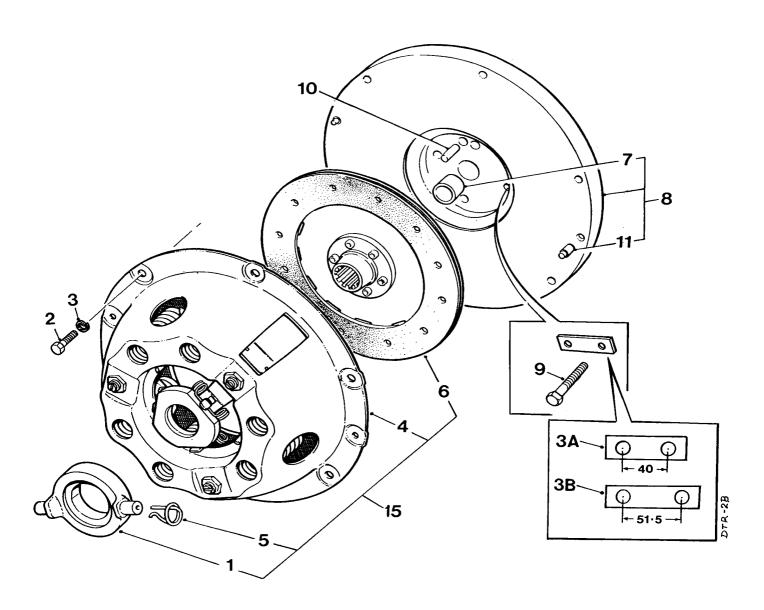
			_
	30139A02	GEARBOX, assembly	1
	30101A0201	KNOB, gear lever	1
	95S03	NUT, locking	1
	20097A05	LEVER, gear	1
4	30101A0203	CAP, gear lever	1
5	30101A0204	GAITER, gear lever	1
6	30101A0205	SPRING, gear lever	1
7	30101A0206	PLATE, retaining	1
8	28S03E	SCREW	1
9	30190A0101	WASHER, tab	1
10	30190A0102	WASHER	1
11	30139A0201	PINION, reduction	1
12	28S01B	SCREW	2
13	30190A0104	RETAINER, bearing, small	1
14	88S06E	BEARING, mainshaft, rear	1
15	30101A0211	GEAR, output	1
	30101A0212	SPACER, output gear	1
17	30101A0213	WASHER	1
	102S04	NUT, slotted	1
19	44S02C	PIN, split	1
20	30101A0215	CIRCLIP	1
	28S01D	SCREW	2
	67S01	WASHER, shakeproof	12
23	30190A0105	CLIP, layshaft bearing	2
24	88S04E	BEARING, layshaft	2
25	30101A0217	SPACER, bearing	1
	30101A0218	PINION, reverse	1
	30101A0219	GEAR, reverse speed	2
	30101A0220	BUSH, reverse pinion	1
	30101A0221	KEY	1
	30101A0222	SHAFT, reverse pinion	1
30	30 10 1A0222	OTAL I, TEVELSE PILITOIT	ı



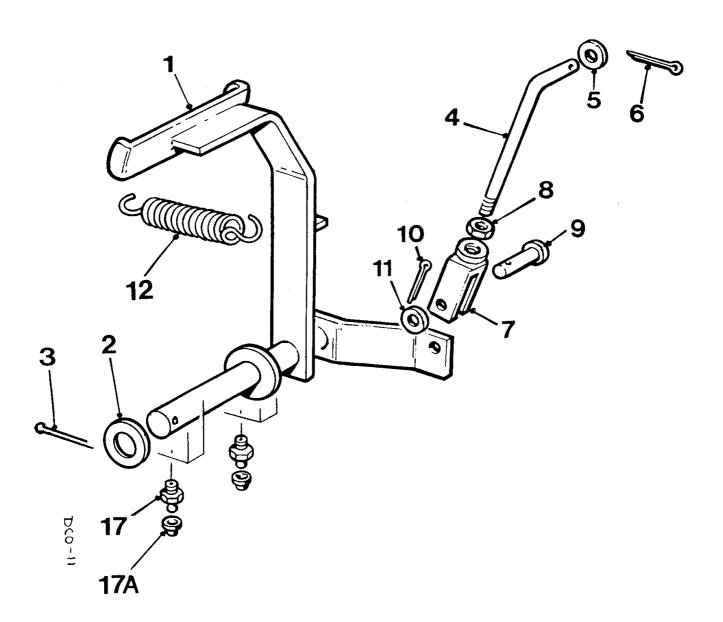
Item	Part no	Serial	no	Description	Qty
31 31	30101A0223 30101A0266	, \$ /	\$	LAYSHAFT LAYSHAFT	1 1
	30101A0224 30101A0225 30101A0226 30101A0227			GEAR, 2nd speed sliding GEAR, 2nd speed GEAR, 1st speed FORK, selector, 2nd & 3rd	1 1 1
37 38	44S01C 30101A0228 30101A0229 30101A0230 42S05			PIN, split PIN, clevis CLEVIS, interlock PLATE, interlock SEAL, dipstick	2 2 2 1 1
41 41	30101A0232 30218A0248	\$ /	\$	DIPSTICK, (flange to bottom = 7") DIPSTICK, (flange to bottom = 6")	1 1
42 43 44 45	30101A0234 28S01C 30101A0235			SCREW, drive (for serial no. plate) PAD, gear lever SCREW COVER, top	4 2 6 1
46 47 48 49 50	30097A0185 30097A0199 30101A0237 30101A0238 30101A0239			SPRING, detent BALL, detent SHAFT, selector BEARING, primary shaft SHAFT, primary	2 2 2 1 1
57 51 52 53 54	30101A0246 88S16F 30101A0241 30101A0242 30101A0243			HOUSING, clutch BEARING, input RING, snap SPACER, bearing CIRCLIP	1 1 1 1 2
	30101A0244 30101A0267	, \$,/	\$	BUSH, layshaft BEARING, layshaft	1 1
58 58	30101A0245 3S03E 69S03E 30190A0116 30097A0110			GEAR, reduction, 1st SCREW, set, Petter engine SCREW, set. Lister engine NUT, nylon insert FORK, clutch release	1 8 8 6 1
61 62 63 64 65	30097A0111 30097A0114 6S01B 30101A0247 30101A0248			COTTER, nut & washer BUSH, cross shaft BOLT SEAL (part of item 65) COVER, assembly. (with item 64)	1 2 4 1
	30101A0249 30101A0250			GASKET, front cover GASKET, top cover	1



Item	Part no	Serial no	Description	Qty
69 70 71	30101A0219 30190A0106 30101A0252 9S01 30101A0253		GEAR, reverse speed OUTPUT SHAFT FORK, selector, 1st & reverse NUT STUD	1 1 1 1 6
_	30101A0254 30101A0255		DISC, sealing, selector shaft CROSS SHAFT, clutch	3 1
76 77 78	131S06 30101A0256 30101A0257 30097A0109 6S01C		NIPPLE, grease CIRCLIP WASHER, cross shaft LEVER, clutch release BOLT	2 1 1 1 1
81 82 83	30190A0107 30097A0163 42S05 30101A0259 28S01C		CASING PLUG, drain SEAL, drain plug STRIP, selector locking SCREW, set	1 1 1 1 2
87	30097A0155 30190A0110 30190A0112 30190A0111 30101A0260		DOWEL GEAR, internal GASKET, reduction housing BEARING, internal gear front SPACER	2 1 1 1 1
90 91 92 93 94	30190A0113 28S02D 30190A0114 6S02J 30097A0171		BEARING, internal gear rear SCREW HOUSING, reduction BOLT BREATHER	1 4 1 4 1
95 96 97 98 99	89S02 30101A0265 30101A0208 30101A0207 30101A0264		SEAL, oil, rear SHIELD, dust WASHER, coupling WASHER, locking COUPLING	1 1 1 1
100 102 103 104	30143A0111 30143A0101		SCREW WASHER, spring WASHER, fibre WASHER, fibre	1 8 1 1
-	176S01		CAP, grease nipple (not illustrated)	2

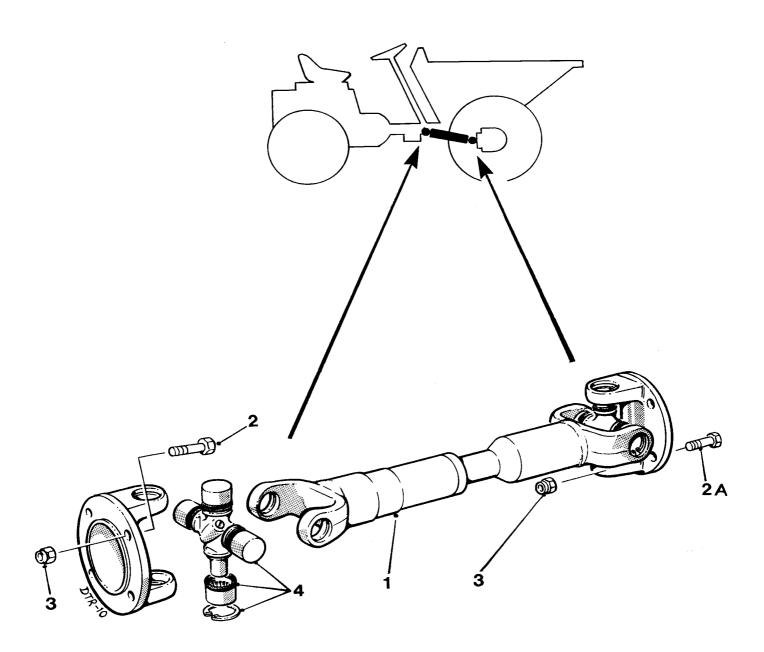


Item	Part no	Serial no	Description	Qty
1	10579A01		BEARING, release	1
2	28S02D		SCREW	6
3	41S04		WASHER, spring	6
3A	10531A02		WASHER, locking, 60mm long, Lister-Petter TS1 & TR1 engines	1
3B	10531A03		WASHER, locking, 70mm long, Lister-Petter TS1 & TR1 engines	1
4	10597A01		COVER	1
5	10579A0101		SPRING, retaining, release bearing	2
6	10598A01		PLATE, drive	1
7	10580A0101		BUSH	1
8	10580A02		FLYWHEEL	1
9	1S02C		BOLT, Petter PH engine	4
9	8S03B		BOLT, Lister ST and Lister-Petter TS & TR engines	4
10	C321		DOWEL	1
11	10580A0102		DOWEL	2
15	10948A02		KIT, Clutch repair Consists of items 1,4,5 &6	1



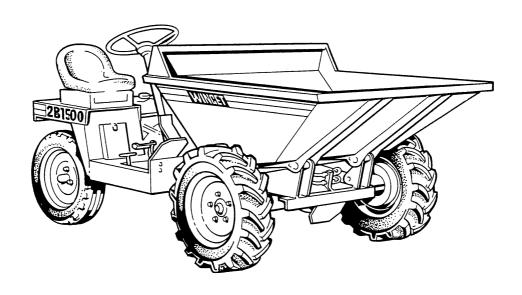
CLUTCH PEDAL C - 4

Item	Part no	Serial no	Description	Qty
1	20096A07		PEDAL, clutch	1
2	10S08		WASHER, flat	1
3	44S05E		PIN, split	1
4	10481A03		ROD, clutch	1
5	10S03		WASHER, flat	1
6	44S03C		PIN, split	1
7	C174J		CLEVIS	1
8	95S03		NUT	1
9	10650A18		PIN, clevis	1
10	44S02C		PIN, split	1
11	10S03		WASHER, flat	1
12	C173B		SPRING, return	1
17 17	131S03 131S03	/ 0552 / 585	NIPPLE, grease, push-in, <b>2B1000</b> NIPPLE, grease, push-in, <b>2B1500</b>	2 2
17 17	131S01 131S01	0553 / 586 /	NIPPLE, grease, threaded, <b>2B1000</b> NIPPLE, grease, threaded, <b>2B1500</b>	2 2
17A	176S01		CAP, grease nipple	2



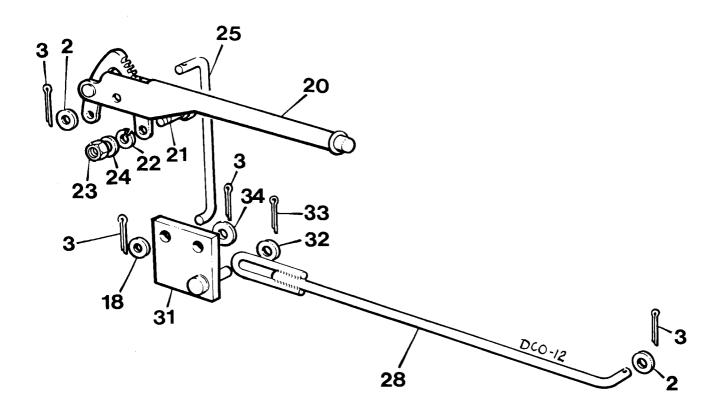
Item	Part no	Serial no	Description	Qty			
		Machines with S	alisbury axles				
	2B1000 with axle 4HA						
1	20265A01		PROPELLER SHAFT	1			
	176S01		CAP, grease nipple (not illustrated)	2			
2	1S02B		BOLT	4			
2A	1S02B		BOLT	4			
3	163S02		NUT, nylon insert	8			
4	10313A04		KIT, U/J, repair	AR			
		2B10	000 with axle 5HA				
1	20088A01		PROPELLER SHAFT	1			
	176S01		CAP, grease nipple (not illustrated)	2			
2	1S02B		BOLT	4			
2A	1S02B		BOLT	4			
3	163S02		NUT, nylon insert	8			
4	10313A04		KIT, U/J, repair	AR			
		2B15	600				
1	20297A02		PROPELLER SHAFT	1			
	176S01		CAP, grease nipple (not illustrated)	2			
2	6S03A		BOLT	4			
2A	6S03A		BOLT	4			
3	107S03		NUT, nylon insert	8			
4	10568A01		KIT, U/J, repair	AR			
		Machines with N	lewage axles				
		2B10	000 & 2B1500				
1	20088A01		PROPELLER SHAFT	1			
	176S01		CAP, grease nipple (not illustrated)	3			
2	6S03Y		BOLT, gearbox end, 1 3/8" long	4			
2A	6S03A		BOLT, axle end, 1 1/8" long	4			
3	107S03		NUT, nylon insert	8			
4	10568A01		KIT, U/J, repair	AR			
••••	131S06		NIPPLE, grease (not illustrated)	3			

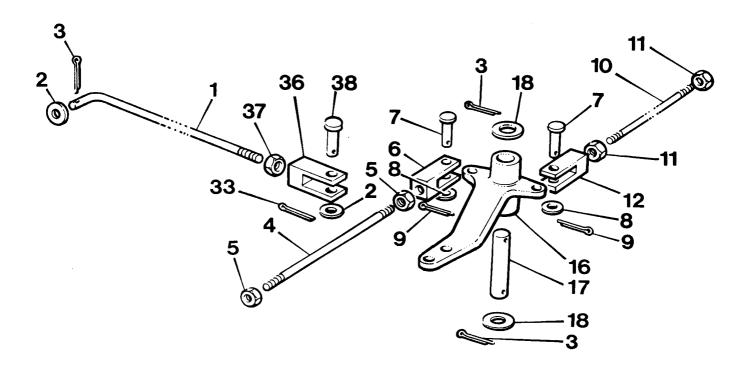
## 2B1000 & 2B1500 DUMPERS



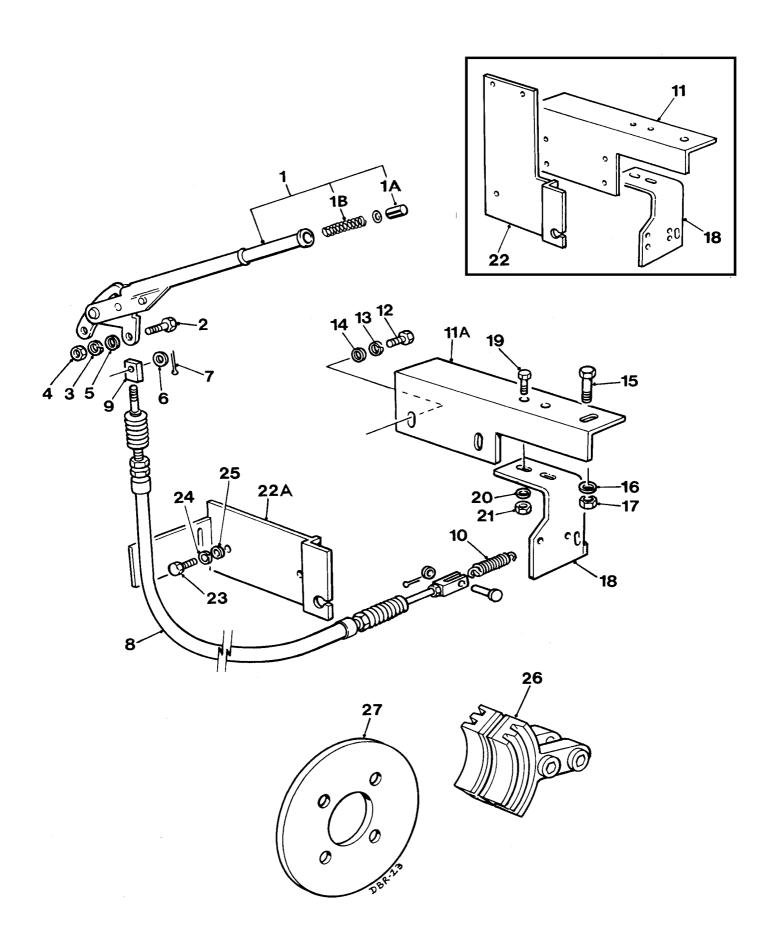
## **Brakes**

HANDBRAKE & LINKAGE	
Used with Salisbury axles	D - 1
HANDBRAKE, CABLE & CALIPER	
Used with Newage axles	D - 2
CALIPER	
Used with Newage axles	D - 2A
BRAKE PEDAL	D - 2B
BRAKE PIPES & FITTINGS	
Up to November 1992	D - 3
BRAKE PIPES & FITTINGS	
From November 1992 to March 2002	D - 4
BRAKE HOSES & FITTINGS	
From March 2002	D - 4A
BRAKE DRUM	
Used on 2B1000 with Salisbury axle	D - 5
BRAKE DRUM	
Used on 2B1500 with Salisbury axle	<b>D - 6</b>

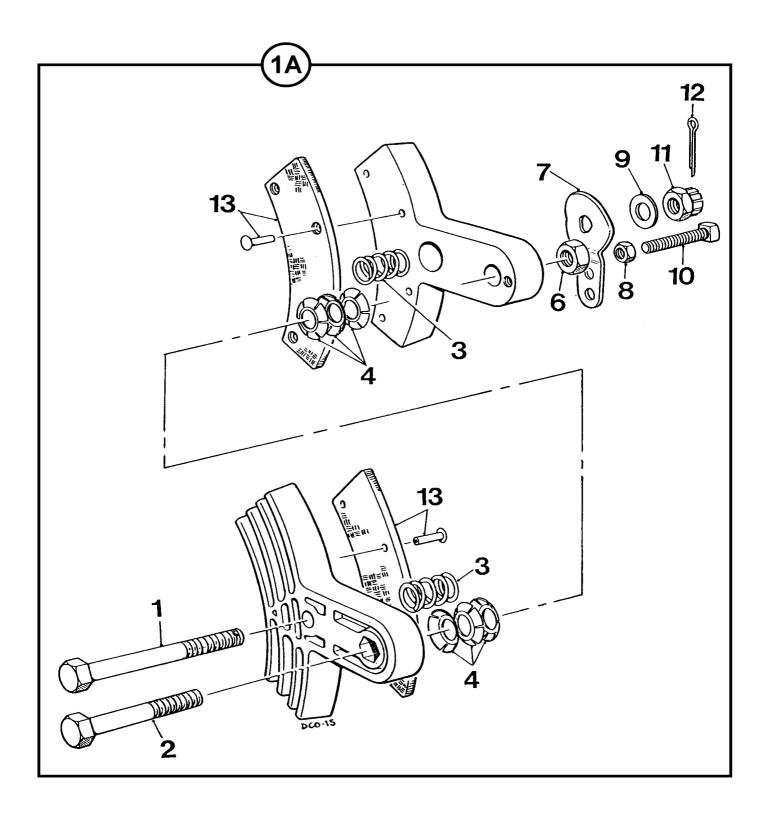




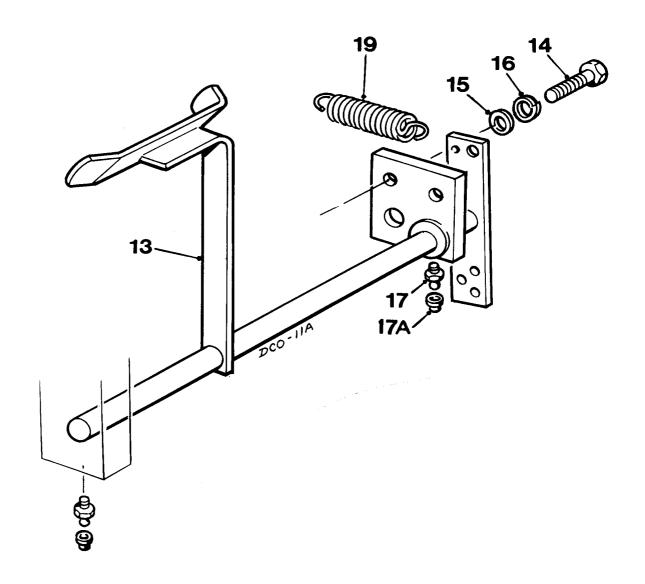
Item	Part no	Serial no	Description	Qty
	10888A08 10888A03		ROD, brake, <b>2B1000</b> ROD, brake, <b>2B1500</b>	1 1
3 4 4 5 5 6 6 7 8	10S03 44S03C 40SB26 40SA14 9S01 9S02 C174E C174C 10650A14 10S02 44S02B 40SB28 9S02 C174E 40SA08 9S01 C174C		WASHER, flat PIN, split ROD, <b>2B1000</b> , 5/16" thread ROD, <b>2B1500</b> , 1/4" thread NUT, <b>2B1500</b> NUT, <b>2B1000</b> CLEVIS, <b>2B1000</b> 5/16" thread CLEVIS, <b>2B1500</b> , 1/4" thread PIN, clevis WASHER PIN, split ROD, <b>2B1000</b> , 5/16" thread NUT, <b>2B1000</b> CLEVIS, <b>2B1000</b> , 5/16" thread NUT, <b>2B1000</b> CLEVIS, <b>2B1500</b> , 1/4" thread NUT, <b>2B1500</b> CLEVIS, <b>2B1500</b> , 1/4" thread	5 7 1 1 2 2 1 1 2 2 1 1 1 1 1
16 17 18 	C272 10908A01 10S04 131S03 131S03 131S01 131S01	/ 0552 ii / 585 # 0553 / 586 /	COMPENSATOR PIN, pivot WASHER  # NIPPLE, grease, push-in, 2B1000 NIPPLE, grease, push-in, 2B1500 # NIPPLE, grease, threaded, 2B1000 # NIPPLE, grease, threaded, 2B1500	1 1 2 1 1 1
20B 21 22 23 24 25 28 28 31 32 33	7S04 12S19 10888A01 10888A07 10888A02 10889A01 C180B 44S02C 12S22 C174J		# CAP, grease nipple # not illustrated LEVER, handbrake, assembly BUTTON SPRING BOLT WASHER, spring NUT WASHER ROD ROD, 2B1000 ROD, 2B1500 QUADRANT WASHER PIN, split WASHER CLEVIS NUT PIN, clevis	1 1 1 1 2 2 2 2 1 1 1 1 1 2 1 1 1



Item	Part no	Serial no	Description	Qty
1 1A 1B	20208A01 20208A0101 20208A0102		LEVER, handbrake assembly BUTTON, handbrake SPRING, handbrake	1 1 1
3	11S04C 17S05 7S04 267S06		SCREW WASHER, spring NUT WASHER, flat	2 2 2 2
6 7	10S03 44S02B		WASHER, flat PIN, split	1 1
_	20273A02 L309 C173D		CABLE, handbrake BLOCK SPRING, return	1 1 1
11 11A	20282A04 20282A11		BRACKET, gearbox  OBSOLETE: use bracket 20282A11  BRACKET, gearbox mounting	1 1
12 13 14	28S03D		SCREW, set WASHER, spring WASHER, flat	2 4 2
	6S05C 10S04 107S16		SCREW WASHER, flat NUT, nylon insert	1 1 1
18	20282A07		BRACKET, caliper mounting	1
19 20 21	11S03C 267S05 59S12		SCREW, set WASHER, flat NUT, nylon insert	2 2 2
22 22A	20282A08		BRACKET  OBSOLETE: use bracket 20282A08  BRACKET	1
23 24 25	28S03D 41S05 10S03		SCREW, set WASHER, spring WASHER, flat	2 2 2
26 27	10578A01 10385A02		CALIPER, disc brake DISC, handbrake	1 1

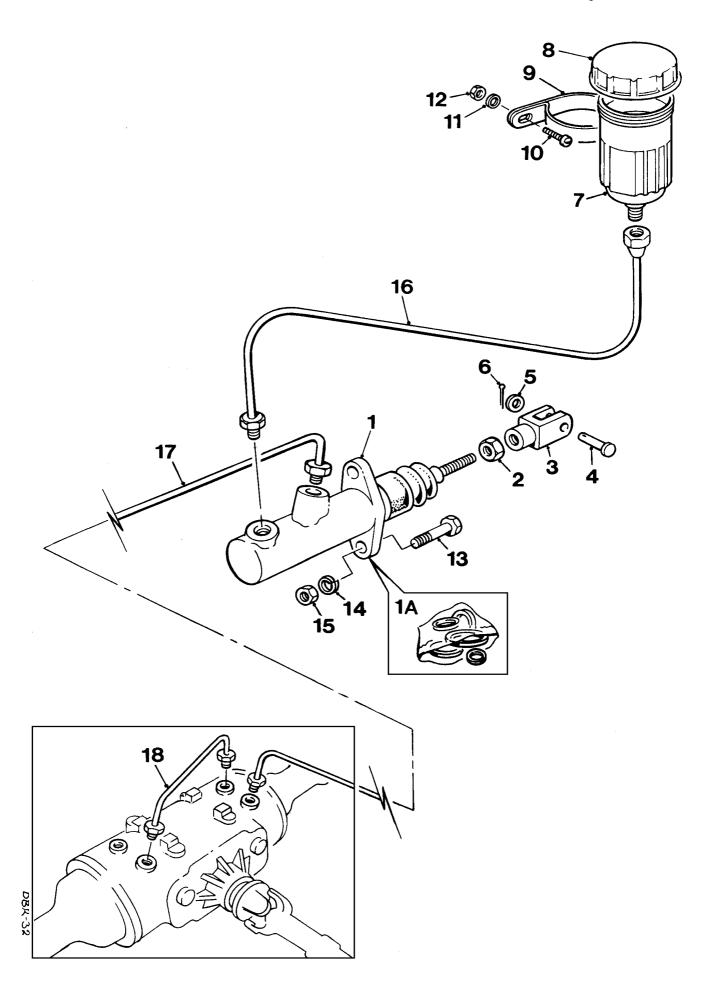


Item	Part no	Serial no	Description	Qty
		ALLOY CALIPE	ERS	
1A	10578A01		CALIPER, one pair, assembly	1
1	11116		SCREW, with hole for pin, item 12	1
2	28S02P		SCREW	1
3	10578A0101		SPRING, centring	4
4			TENSION WASHER (obsolete)	
6	9S02		<i>use item 3 above</i> NUT	1
7	10578A0104		CAM	1
8	230S01		NUT, 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
1Δ	10578A01	STEEL CALIPI	ERS CALIPER, one pair, assembly	1
1	8S03M		BOLT	1
2	8S03J		BOLT	1
3	10578A0101		SPRING, centring	4
6	59S12		NUT, nyloc	1
7	10578A0104		CAM	1
8	7S02		NUT	1
9	10578A0105		WASHER	1
10	11S02H		SCREW, set	1
11	59S12		NUT, nyloc	1
13	1072A4		PAD c/w rivets	2



BRAKE PEDAL D - 2B

Item	Part no	Serial no	Description	Qty
13	20232A02		PEDAL, brake	1
14	8S04C		BOLT	2
15	267S06		WASHER, flat	2
16	17S05		WASHER, spring	2
17 17	131S03 131S03	/ 0552 / 585	NIPPLE, grease, push-in, <b>2B1000</b> NIPPLE, grease, push-in, <b>2B1500</b>	2 2
17 17	131S01 131S01	0553 / 586 /	NIPPLE, grease, threaded, <b>2B1000</b> NIPPLE, grease, threaded, <b>2B1500</b>	2 2
17A	176S01		CAP, grease nipple	2
19	C173B		SPRING	1

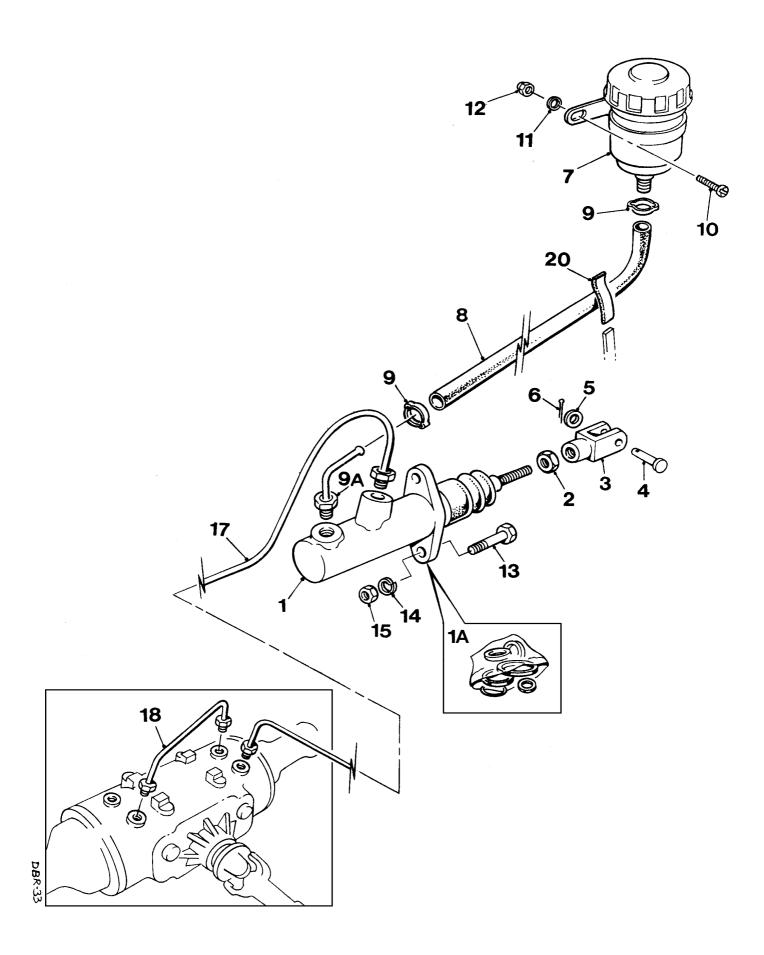


Item Part no	Serial no	Description	Qty
100111 1 41 0 110	<b>5</b> 01141 115	Doodription	<b>~.</b> ,

Dumpers are fitted with either GIRLING or FRENOS IRUNA master cylinders.

Be sure to quote the name marked on the master cylinder before ordering parts.

1 1 1	20102A02 V2003671 V2004651		MASTER CYL. 3/8" UNF rod, GIRLING MASTER CYL. 3/8" UNF rod, FRENOS IRUNA MASTER CYL. M10 rod, GIRLING
1A 1A	10570A01 V601697		REPAIR KIT, m/cyl. GIRLING REPAIR KIT, m/cyl. FRENOS IRUNA
2 2	95S03 7S04		NUT, 3/8" UNF 1 NUT, 10mm 1
	C174J V2004648		CLEVIS, 3/8" UNF 1 CLEVIS, 10mm 1
4 5 6	10650A18 10S03 44S02C		PIN, clevis 1 WASHER 1 PIN, split 1
11	10659A02 10659A0201 10659A0102 82S03C 10S73 85S01		RESERVOIR 1 CAP, reservoir 1 CLIP, reservoir 1 SCREW 2 WASHER 2 NUT, nylon insert 2
13 14 15	8S03B 17S04 7S03		BOLT 2 WASHER 2 NUT 2
16 17	10967A10 10968A04		PIPE, reservoir to master cylinder 1 PIPE, master cylinder to axle 1
18 18	10577A0201 10577A0213	/ 0574 0575 /	PIPE, axle bridge, <b>2B1000</b> , 1 PIPE, axle bridge, <b>2B1000</b> 1
18 18	10577A0201 10577A0213	/ 602 603 /	PIPE, axle bridge, 2B1500       1         PIPE, axle bridge, 2B1500       1
	182S20		SCREW, bleed (not illustrated) 1

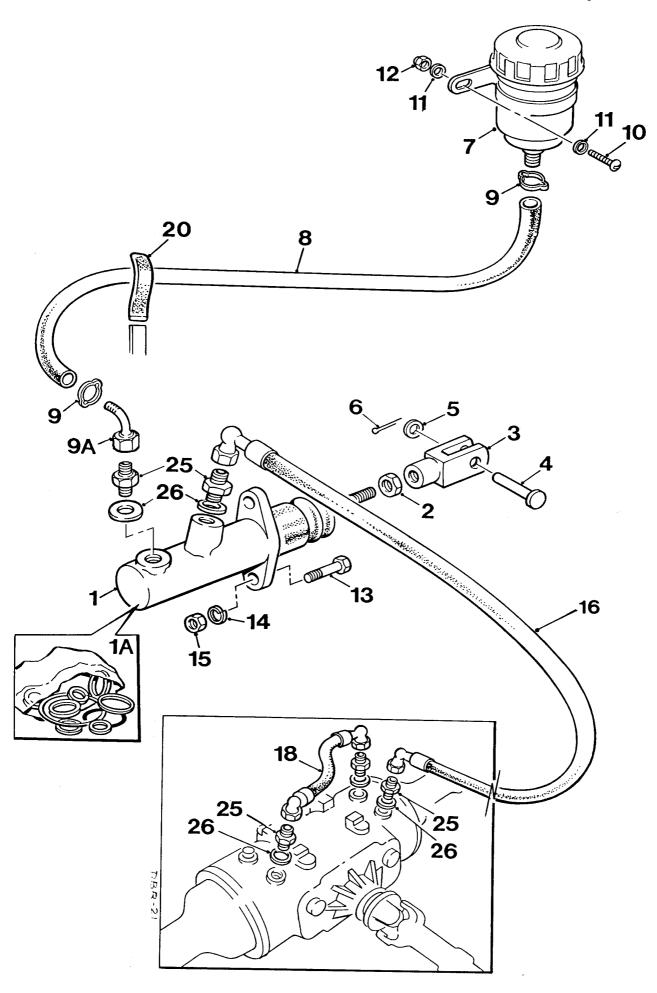


Item Part no	Serial no	Description	Qty
	NOV 92 / 0634	2B1000	
	NOV 92 / 834	2B1500	

Dumpers are fitted with either GIRLING or FRENOS IRUNA master cylinders.

Be sure to quote the name marked on the master cylinder before ordering parts.

1	20102A02	MASTER CYL. 3/8" UNF rod, GIRLING	
1	V2003671	MASTER CYL. 3/8" UNF rod, FRENOS IRUNA	
1	V2004651	MASTER CYL. M10 rod, GIRLING	
1A	10570A01	REPAIR KIT, m/cyl. GIRLING	
1A	V601697	REPAIR KIT, m/cyl. FRENOS IRUNA	
2	95S03 7S04	NUT, 3/8" UNF NUT, 10mm	1
3	C174J	CLEVIS, 3/8" UNF	1
3	V2004648	CLEVIS, 10mm	1
4	10650A18	PIN, clevis	1
5	10S03	WASHER, flat	1
6	44S02C	PIN, split	1
7	V2003030	RESERVOIR c/w clip	1
8 9 9A	V2002991 V2003029 10542A01	HOSE, (res.to m/cyl.) order by meter CLIP, hose PIPE, stub	2
10	82S03E	SCREW, set	2
11	10S73	WASHER, flat	4
12	85S01	NUT, "Nyloc"	2
13	8S03C	BOLT	2
14	17S04	WASHER, spring	2
15	7S03	NUT	2
17	V2000305	PIPE, brake, (master cylinder to axle)	1
18	10577A0213	PIPE, brake, (axle bridge)	
20	208143000	SLEEVE, P.V.C., black	3

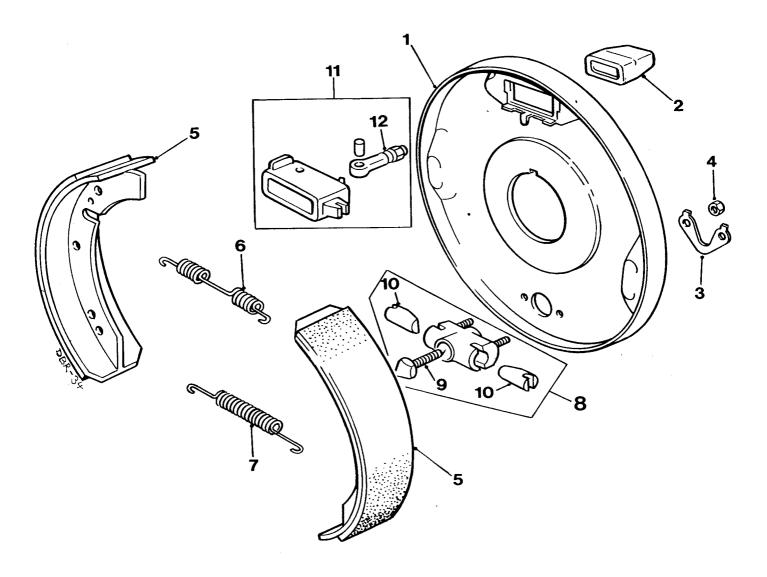


Item Part no	Serial no	Description	Qty
	0635 /	2B1000	
	835 /	2B1500	

Dumpers are fitted with either GIRLING or FRENOS IRUNA master cylinders.

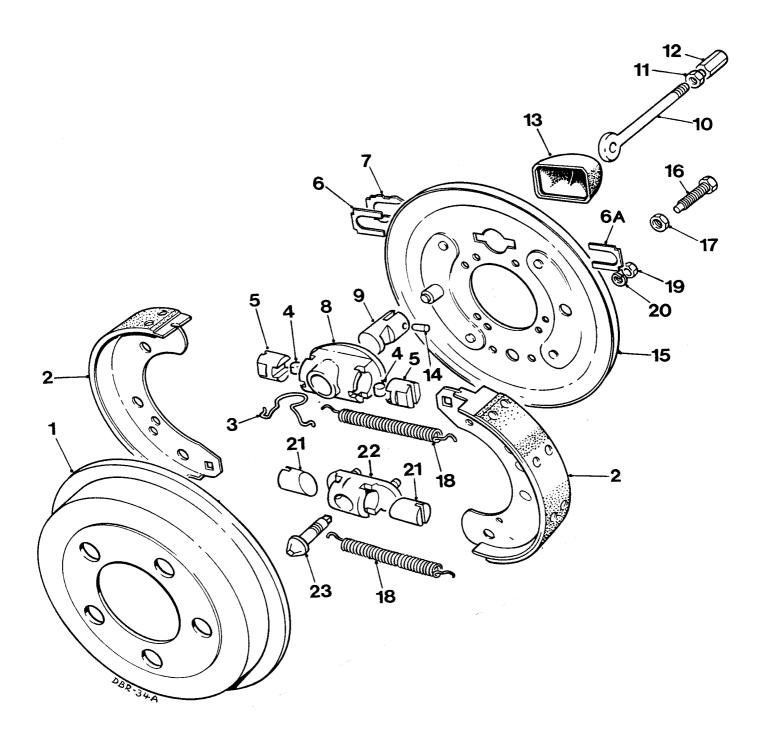
Be sure to quote the name marked on the master cylinder before ordering parts.

	20102A02 V2003671 V2004651	MASTER CYL. 3/8" UNF rod, GIRLING MASTER CYL. 3/8" UNF rod, FRENOS IRUNA MASTER CYL. M10 rod, GIRLING	
	10570A01 V601697	REPAIR KIT, m/cyl. GIRLING REPAIR KIT, m/cyl. FRENOS IRUNA	
	95S03 7S04	NUT, 3/8" UNF NUT, 10mm	1
	C174J	CLEVIS, 3/8" UNF	1
	V2004648	CLEVIS, 10mm	1
5	10650A18	PIN, clevis	1
	10S03	WASHER, flat	1
	44S02C	PIN, split	1
8	V2003030 V2002991 V2003029	RESERVOIR c/w clip HOSE, (res.to m/cyl.) order by meter CLIP, hose	1
	129S01A	ADAPTOR, elbow 90 deg.	1
	82S03E	SCREW, set	2
	10S73	WASHER, flat	4
	85S01	NUT, "Nyloc"	2
	8S03C	BOLT	2
	17S04	WASHER, spring	2
16	7S03	NUT	2
	53S01P	HOSE, brake (master cylinder to axle)	1
	53S01W	HOSE, brake, (axle bridge)	1
	208143000	SLEEVE, P.V.C., black	2
	V2003515	ADAPTOR, male/male	5
	298S03	SEAL, bonded	5



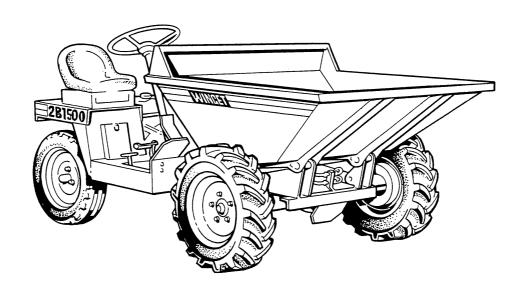
## BRAKE, drum, Salisbury axles

Item	Part no	Serial no	Description	Qty
1	30085A0153		BACKPLATE, R.H. (illustrated)	1
-	30085A0154		BACKPLATE, L.H. (not illustrated)	1
2	30085A0155		COVER, rubber	2
3	30088A0156		PLATE, locking	2
4	30085A0157		NUT	4
5	LB203		SHOE, brake (pairs)	2
6	30085A0159		SPRING	2
7	30085A0160		SPRING	2
8	30085A0161		ADJUSTER, assembly	2
9	30085A0162		SCREW, adjuster	2
10	30085A0163		TAPPET	4
11	30085A0165		EXPANDER, assembly	2
12	30085A0164		PULL ROD & PIN	2



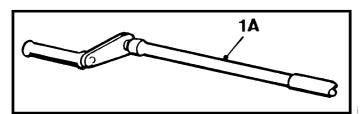
Item	Part no	Serial no	Description	Qty
1	30088A0128		DRUM, brake	1
2	20298A0101		SHOE, lined	2
3	20298A0102	#	SPRING	1
4	20298A0103		ROLLER	2
5	20298A0104		TAPPET, expander	2
6	20298A0105		PLATE	1
6A	20298A0106		PLATE	1
UA	20290/100		ILAIL	'
7	20298A0107		PLATE, locking	1
8	20298A0108	#	HOUSING, expander	1
9	20298A0109	#	PLUNGER	1
10	20298A0110	#	DRAWLINK	1
11	20298A0111	#	NUT, locking	1
12	20298A0112	#	NUT, barrel	1
13	20298A0113		COVER, dust	1
14	20298A0114	#	<sup>£</sup> PIN	1
15	20298A0115		BACKPLATE, brake	1
16	20298A0205		SCREW, "special", c/w nut assembly	2
17	2S03		NUT	2
18	20298A0116		SPRING	2
	20298A0123		ADJUSTER, assembly	1
19	20298A0117		NUT	2
20	20298A0118		WASHER	2
21	20298A0119		TAPPET, adjuster	2
22	20298A0120		HOUSING, adjuster	1
23	20298A0121		SCREW, adjuster	1
	20298A0122		KIT, service, adjuster	AR
	20298A0124	#	EXPANDER, assembly, consists of items # 3, 4, 5, 8, 9, 10, 11, 12 & 14	1

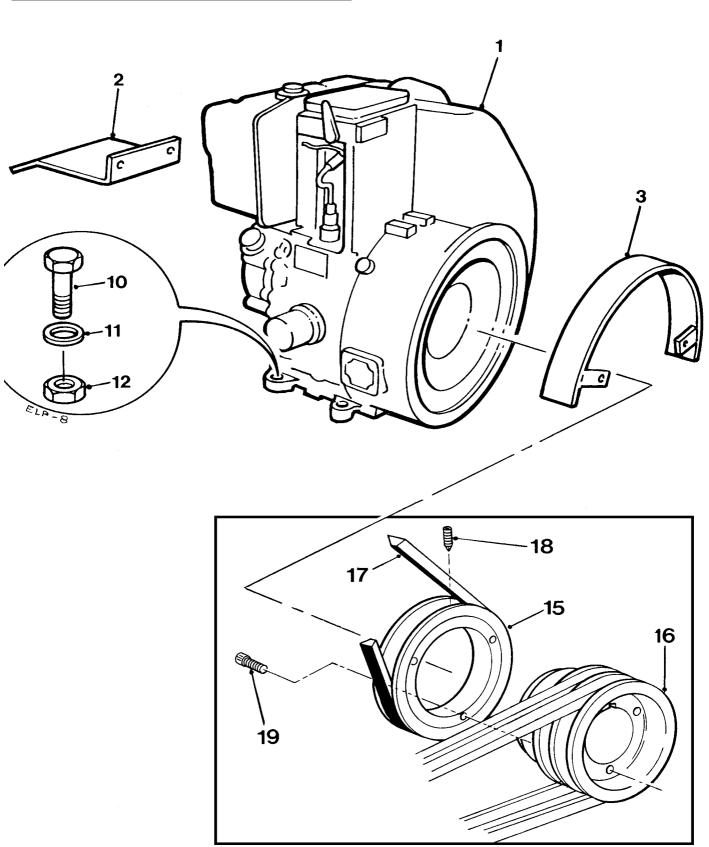
# 2B1000 & 2B1500 DUMPERS



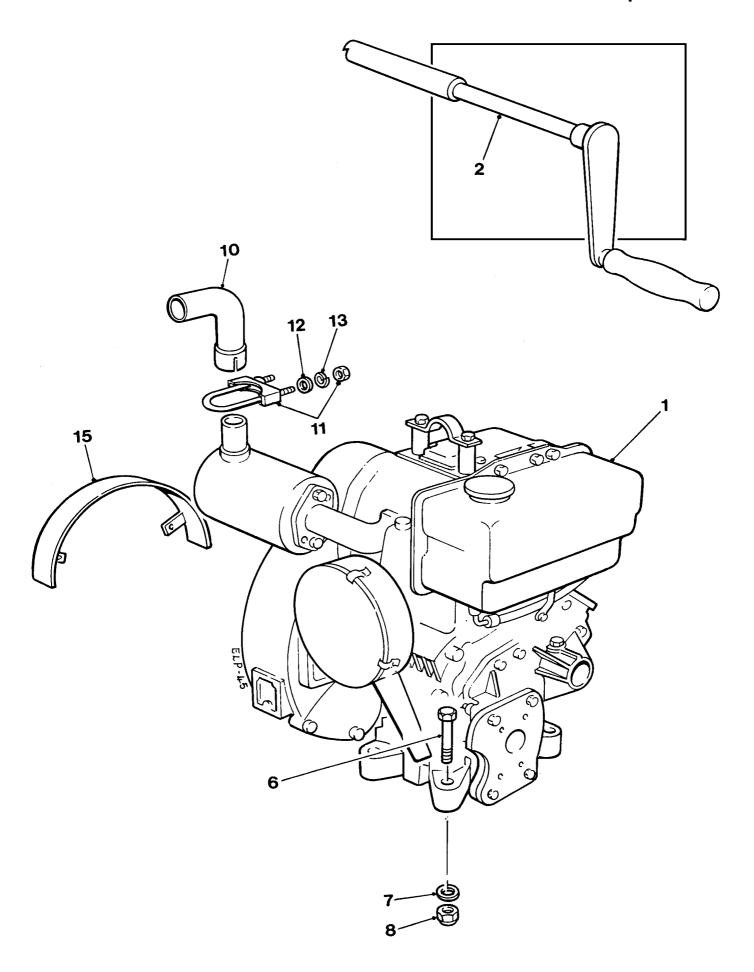
# **Engine & Controls**

LISTER-PETTER ENGINES	
PH1, ST1 & TS1	E - 1
TR1	E - 2
EXHAUST SYSTEMS	E - 3
ACCELERATOR PEDAL & LINKAGE	E - 5

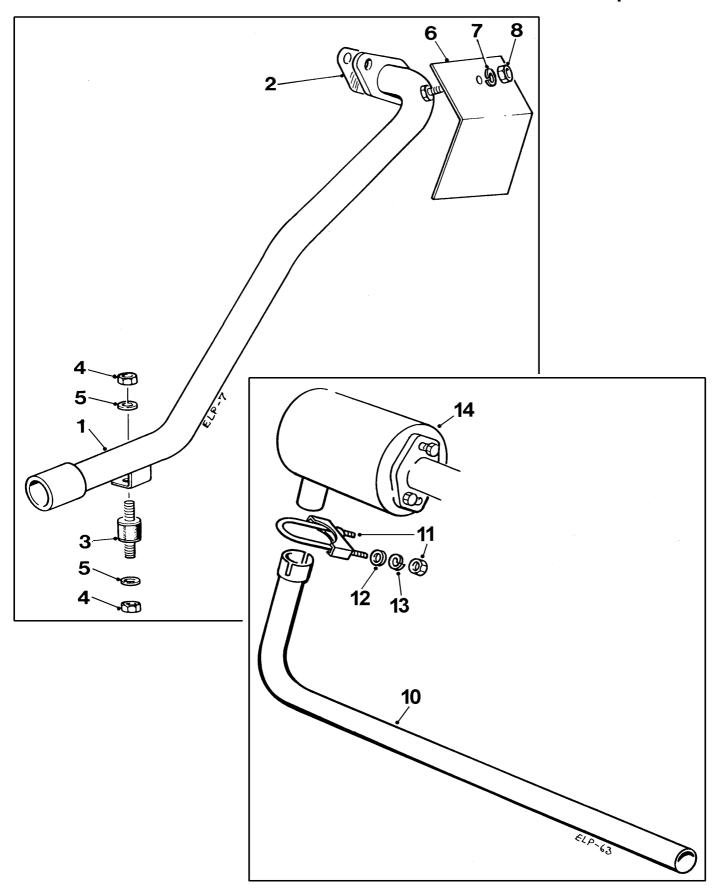




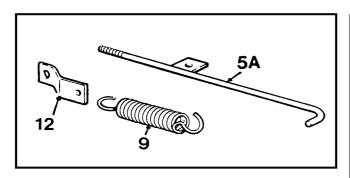
Item	Part no	Serial no	Description	Qty
1 1 1 1	20328A02 20328A04 20330A02 20349A02	ELE JUN 86 /	ECTRIC START ENGINES Engine, Petter PH1, 2B1000 Engine, Petter PH1, 2B1500 Engine, Lister ST1 Engine, Lister TS1	1 1 1
1 1 1	20328A01 20328A03 20330A01 20349A01	HAI JUN 86 /	Engine, Petter PH1, 2B1000 Engine, Petter PH1, 2B1500 Engine, Lister ST1 Engine, Lister TS1	1 1 1
_	L259RH L259LH		DOG, starter, Petter DOG, starter, Lister ST1	1
1A	185S05D4 20155A03 20354A03 20354A03 10766A02 10766A02	0234 / 154 / / 0233 / 153	SCREW, grub  HANDLE, starting, ST1, PH1 HANDLE, starting, TS1, 2B1000 HANDLE, starting, TS1, 2B1500 CLIP, handle retaining, 2B1000 CLIP, handle retaining, 2B1500	2 1 1 1 1
2 2	10672A02 10672A03		GUARD, starter dog, Petter PH1 GUARD, starter dog, Lister ST1	1 1
3	10987A02		COVER, clutch housing, Lister	1
10 11 12	6S05K 10S04 107S16		BOLT WASHER, flat NUT, nylon insert	4 4 4
_	11036A01 10293A06	JUN 86 / JUN 86 /	PLATE, cover, Lister TS1 & TR1 GASKET, Lister TS1 & TR1	1 1
		2E	31000	
15 16 17 18 19	20307A07 20307A04 397242000 57S05E2 68S04D	0354 / 0354 / 0354 / 0354 /	PULLEY PULLEY BELT SCREW, cone point SCREW, cap head	1 1 1 1 3
		<b>2</b> E	31500	
15 16 17 18 19	20307A07 20307A04 397242000 57S05E2 68S04D	278 / 278 / 278 / 278 / 278 /	PULLEY PULLEY BELT SCREW, cone point SCREW, cap head	1 1 1 1 3

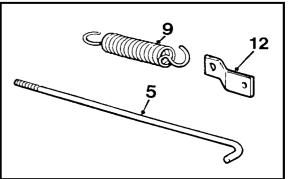


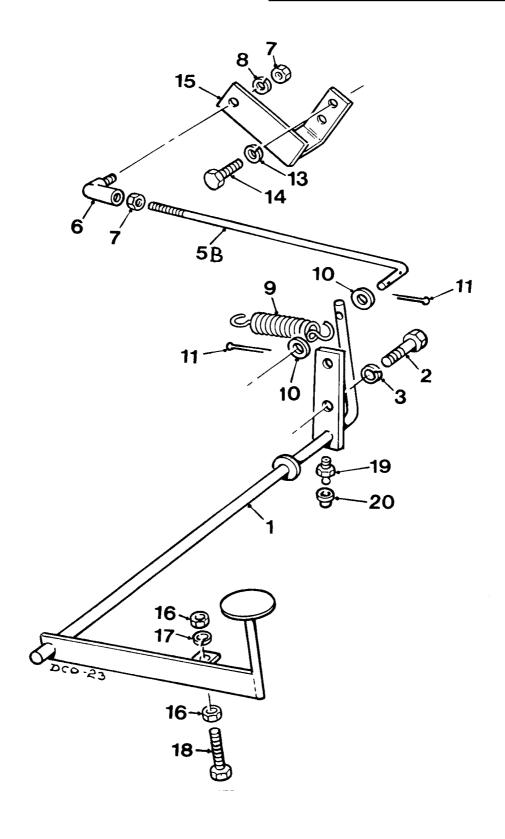
Item	Part no	Serial no	Description	Qty
1	V2000757	JAN 89/	Engine, TR1, hand start (not for hydraulic pump)	1
1	V2000759	JAN 89/	Engine, TR1, hand start (for hydraulic pump)	1
1	V2000758	JAN 89/	Engine, TR1, electric start (not for hydraulic pump)	1
1	V2000760	JAN 89/	Engine, TR1, electric start (for hydraulic pump)	1
2	20354A03		HANDLE, starting	1
6 7 8	6S05K 10S04 107S16		BOLT WASHER, flat NUT, nylon insert	4 4 4
10	<u>-</u>		PIPE, exhaust	
10 10		/ 0635 / 852	\$ # PIPE, exhaust 2B1000 \$ # PIPE, exhaust 2B1500 \$ CE marked dumpers only. See page E-3 for later exhaust.	1 1
11 12 13			# CLAMP # WASHER, flat # WASHER, spring	1 2 2
			# Supplied with engine	
15	10987A02		HOUSING, clutch	1



Item	Part no	Serial	no Description	Qty		
	Petter engines					
1 2 3 4 5 6 7 8	20295A07 10293A04 013203000  20247A02 17S05 7S04		PIPE, exhaust GASKET MOUNTING, rubber, assembly NUT (order assembly) WASHER (order assembly) HEAT SHIELD WASHER, spring NUT	1 1 2 2 1 1		
			Lister ST1 engines Silencer supplied with engine			
	191S06		NIPPLE (not illustrated)	1		
	181S04 3SHD70		ELBOW, f/f (not illustrated) BEND, exhaust, m/f (not illustrated)	1 d) 1		
			Lister-Petter TS1 Silencer supplied with engine			
			Lister-Petter TR1 engine (CE marked dumpers only)			
10 10	20295A08 20295A08	0636 / 853 /	<ul><li>\$ PIPE, exhaust, 2B1000</li><li>\$ PIPE, exhaust, 2B1500</li></ul>	1 1		
			\$ see page E-2 for earlier CE and non CE marked dumper exhausts	3		
			# CLAMP # WASHER, flat # WASHER, spring # Silencer # Supplied with engine	1 2 2 1		

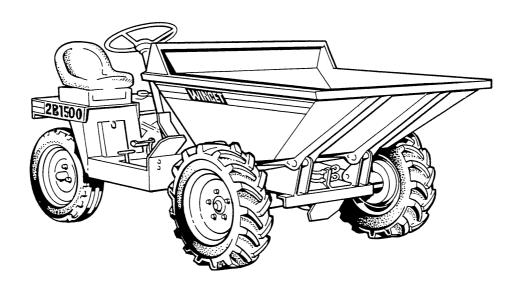






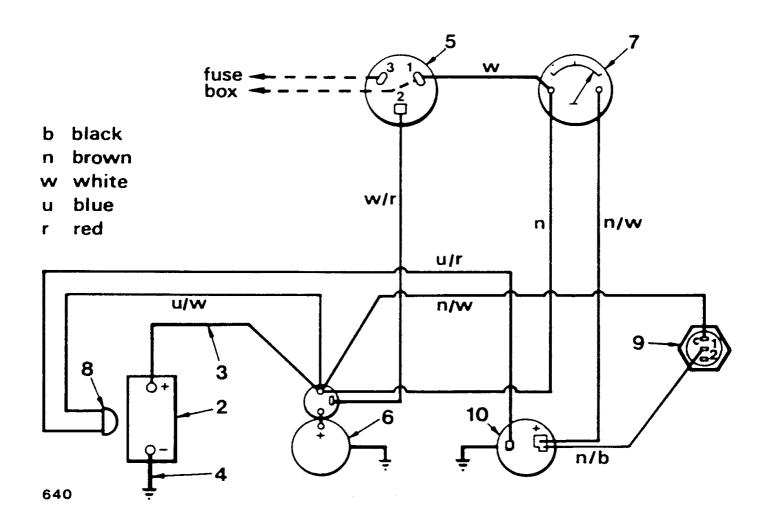
Item	Part no	Serial no	Description	Qty
1 2 3	20231A03 8S04C 17S05 7S04		PEDAL, accelerator BOLT WASHER NUT (OBSOLETE: was used with item 2	1 2 2
5	10362A06		ROD, Petter PH1 engines	1
5A	10362A05		ROD, Lister ST1 engines	1
5B	10362A17	0234 /	ROD, 2B1000 with TS1 or TR1 eng.	1
5B	10362A17	154 /	ROD, 2B1500 with TS1 or TR1 eng.	1
6 7 8	C160B 2S02 41S03		BALL END NUT WASHER, spring	1 2 1
9 10 11	C173D 267S04 44S02C		SPRING, return WASHER, flat PIN, split	1 2 2
12	C163		RETAINER, PH1 & ST1 engines	1
13 14	17S03 11S02A		WASHER, spring SCREW, set	1 1
15 15	11031A03 11031A03	0234 / 154 /	LEVER, <b>2B1000</b> with TS1 or TR1 eng. LEVER, <b>2B1500</b> with TS1 or TR1 eng.	1 1
16 16	7S03 7S03	0553 / 586 /	NUT, <b>2B1000</b> NUT, <b>2B1500</b>	2
17	17S04		WASHER, spring	1
18 18	11S03J 11S03J	0553 / 586 /	SCREW, set, <b>2B1000</b> SCREW, set, <b>2B1500</b>	1 1
19 20	131S01 176S01		NIPPLE, grease CAP, grease nipple	1 1

## 2B1000 & 2B1500 DUMPERS



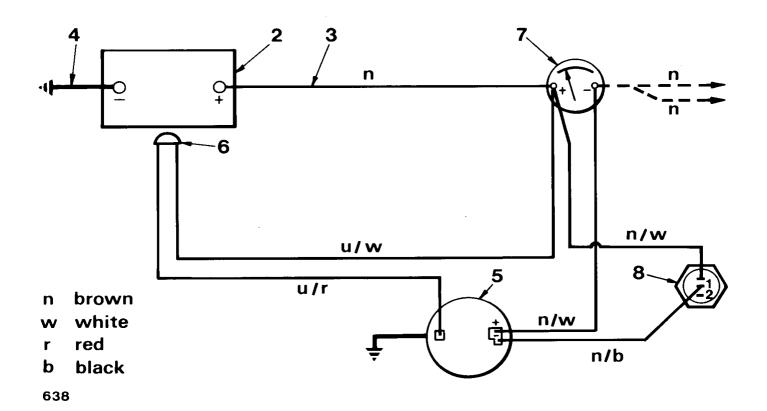
## **Electrics**

CHARGING & STARTING CIRCUIT	
PH1 electric start engine	F - 1
CHARGING CIRCUIT	
PH1 hand start engine	F - 2
CHARGING & STARTING CIRCUIT	
ST1 electric start engine	F - 3
CHARGING CIRCUIT	
ST1 hand start engine	F - 4
CHARGING & STARTING CIRCUIT	
TS1 & TR1 electric start engine	F - 5
ROAD LIGHTS CIRCUIT. Up to 1994	F - 6
ROAD LIGHTS. Up to 1994	F - 7
CONSOLE road lights. Up to 1004	F - 8
CONSOLE, road lights. <i>Up to 1994</i>	<b>F-0</b>
MAIN ELECTRICAL CIRCUIT. From Jan 1995	F - 9
ministrational discours from our 1990	
ROAD LIGHTS. From 1994	F - 10
CONSOLE, road lights. From 1994	F - 11



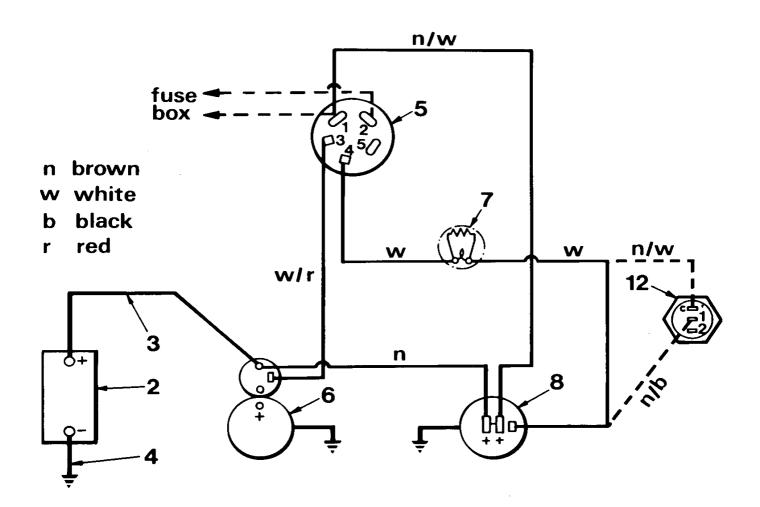
#### **CHARGING & STARTING CIRCUIT Petter PH1 electric start engine**

Item	Part no	Serial no Description	Qty
_	30231A03	LOOM, wiring	1
2	109\$08	BATTERY, 65AHr	1
3	10989A06	CABLE, positive	1
4	10990A06	CABLE, negative	1
5	-	# SWITCH, key-start	1
6	-	# STARTER, c/w solenoid	1
7	-	# AMMETER	1
8	-	# SENDER, temperature	1
9	-	# SWITCH, pressure	1
10	-	# ALTERNATOR	1
-	-	# PULLEY, engine shaft (not illustrated)	1
-	-	# BELT, drive (not illustrated)	1
-	-	# BOX, instrument panel (not illustrated)	1
		# Items supplied with engine	
	11000D	0005111 1 ( 121 1 1 1 1	0
-	11S02B	SCREW, set (not illustrated)	2
-	59S14	NUT (not illustrated)	2
-	12S02	WASHER (not illustrated)	2
-	20307A07	PULLEY (bolted to item 11 - not illustrated)	1
-	68S04D	SCREW, cap (not illustrated)	3
-	10672A01 7S02	GUARD, starter ring (not illustrated)	1 2
_	17S03	NUT <i>(not illustrated)</i> WASHER, spring <i>(not illustrated)</i>	2
_	30178A06	GUARD, belt (hyd. machines only - not illustrated)	
-	30178A08	GUARD, belt (non hyd. machines - not illustrated)	1 1
_	11S02A	SCREW, set (not illustrated)	2
_	59S14	NUT (not illustrated)	2
_	12S02	WASHER (not illustrated)	2
		- (	



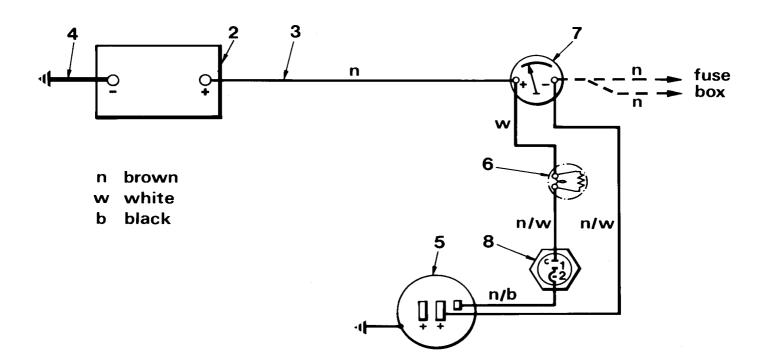
#### **CHARGING CIRCUIT, Petter PH1 handstart engine**

Item	Part no	Serial no Description 0	Qty
	30231A04	LOOM, wiring (supplied with engine)	1
1	109S08	BATTERY, 65AHr	1
3	10227A05	CABLE, positive	1
4	10990A06	CABLE, negative	1
5		# ALTERNATOR	1
6		# SENDER, temperature	1
7		# AMMETER	1
8		# SWITCH, pressure	1
9		# PULLEY (not illustrated)	1
10		# BELT, drive (not illustrated)	1
		# Items supplied with engine	
	30178A06	GUARD, drive belt (hyd. machines - not illustrated)	1
•••••	30178A08	GUARD, drive belt (non-hyd. machines - not illustrated)	1
	11S02A	SCREW (not illustrated)	2
	59S14	NUT (not illustrated)	2
	12S02	WASHER (not illustrated)	2



### **CHARGING & STARTING CIRCUIT Lister ST1 electric start engine**

Item	Part no	Serial no	Description	Qty
1	30231A05		LOOM, wiring	1
2	109S08		BATTERY 65AHr	1
3	10989A07		CABLE, positive	1
4	10990A06		CABLE, negative	1
5		#	SWITCH, key-start	1
6		#	STARTER, c/w solenoid	1
7		#	WARNING LIGHT, c/w exciter	1
8		#	ALTERNATOR	1
		#	PANEL BOX (not illustrated)	1
		#	PULLEY, drive (not illustrated)	1
		#	BELT, drive (not illustrated)	1
		#	SWITCH, pressure (optional - not ill)	1
		#	Items supplied with engine	
	11S02B		SCREW, panel box fixing (not ill)	4
	59S14		NUT (not illustrated)	4
	12S02		WASHER (not illustrated)	4
		Non hydra	aulic machines only	
	30178A07		GUARD, drive belt (not illustrated)	1
	10986A01		TUBE, distance (not illustrated)	2
	8S02J		BOLT (not illustrated)	2
	59S14		NUT (not illustrated)	2
	12S02		WASHER (not illustrated)	2
	11S04D		SCREW (not illustrated)	2
	59S03		NUT (not illustrated)	2
	12S19		WASHER (not illustrated)	2



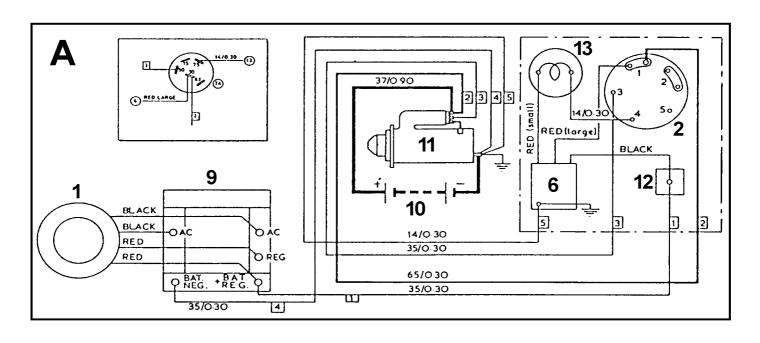
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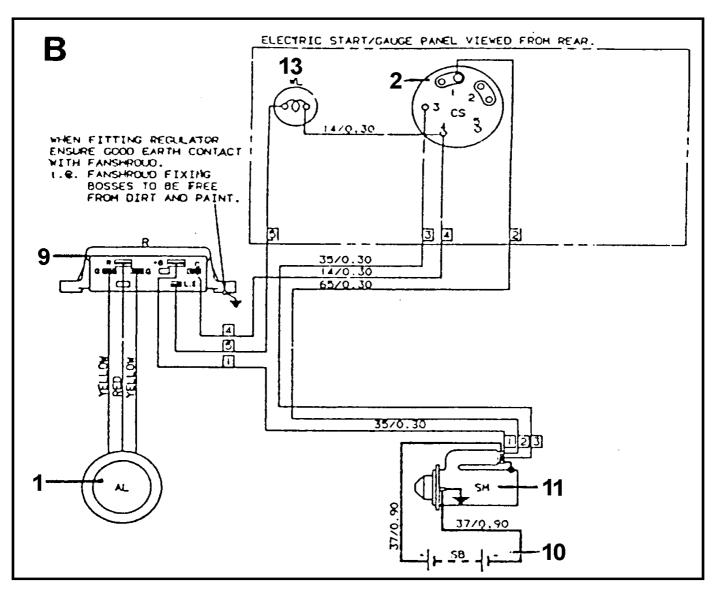
#### CHARGING CIRCUIT, Lister ST handstart engine

Item	Part no	Serial no Description	Qty
_	30231A06	LOOM, wiring	1
2	109S08	BATTERY, 65AH	
3	10227A05	CABLE, positive	1
4	10990A06	CABLE, positive	
		5 <u> </u>	·
5	-	# ALTERNATOR	1
6	-	# WARNING LIGH	Γ, c/w excitor 1
7	-	# AMMETER	1
8	-	# SWITCH, pressu	re 1
-	-	# PULLEY (not illus	strated) 1
-	-	# BELT, drive (not	illustrated) 1
		# Items supplied wi	th engine
		Non hydraulic machines	only
-	30178A07	GUARD, drive be	It (not illustrated) 1
-	10986A01	TUBE, distance (	not illustrated) 2
-	8S02J	BOLT (not illustra	nted) 2
-	59S14	NUT (not illustrate	ed) 2
-	12S02	WASHER (not illu	ustrated) 2
-	11S04D	SCREW (not illus	strated) 2
-	59\$03	NUT (not illustrate	ed) 2

WASHER (not illustrated)

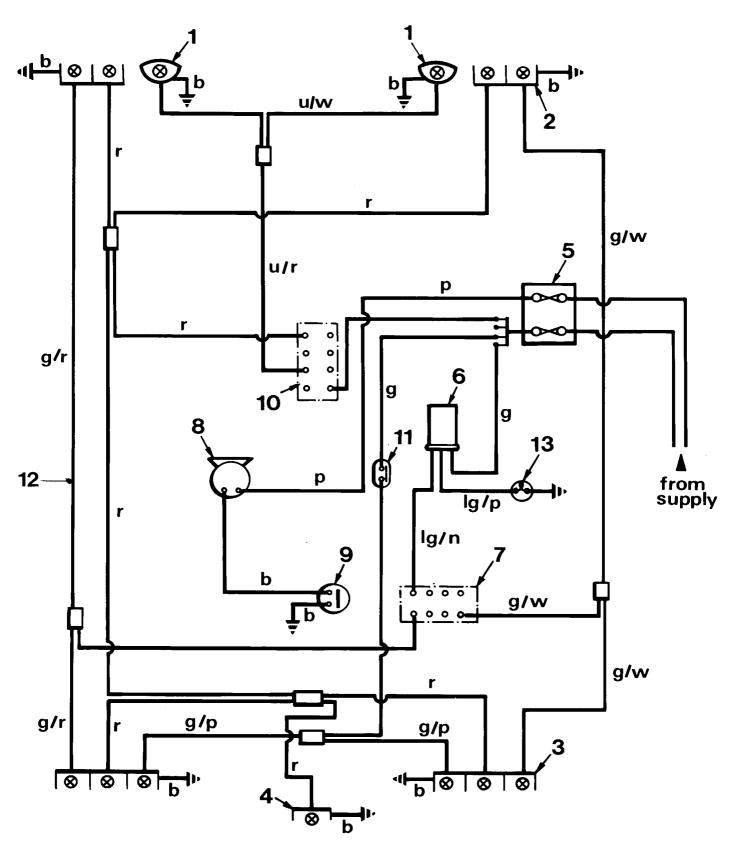
- 12S19





#### CHARGING & STARTING CIRCUIT Lister TS1 & TR1 electric start engine

Item	Part no	Serial no	Description	Qty
		charging systems (s From February 1991 systems (see illustra The two systems are	I, engines were fitted with 'Nicsa' charging ation B). The not interchangable. The engine is fitted with 'Syncro' or 'Nicsa'	
		_	'Syncro' charging system	
1 2 6 9 10 11	- - - 109S08 -	(illustration A)	<ul> <li>+ STATOR, flywheel alternator</li> <li>+ SWITCH, key start</li> <li>+ INDICATOR, battery charge</li> <li>+ RECTIFIER / REGULATOR</li> <li>BATTERY</li> <li>+ STARTER MOTOR</li> <li>+ LIGHT, warning</li> </ul>	1 1 1 1 1
			+ Items supplied with engine. For engine parts, see "Engine Parts Ca	+ "
-	30231A09		LOOM	 1
1 2 9 10 11 13	- - - 109S08 - -	Engines fitted with (illustration B)	<ul> <li>'Nicsa' charging system</li> <li>+ STATOR, flywheel alternator</li> <li>+ SWITCH, key start</li> <li>+ REGULATOR BATTERY</li> <li>+ STARTER MOTOR</li> <li>+ LIGHT, warning</li> </ul>	1 1 1 1 1
			+ Items supplied with engine. For engine parts, see "Engine Parts Ca	t."
-	30231A11	/ Jan-95	LOOM (All machines)	1
-	30231A11 30231A12	Jan-95 / Jan-95 /	LOOM, (Not UK or CE machines) LOOM, (UK and CE machines only)	1
- - -	20313A06 11S02C 17S03 7S02	All machines	PANEL (not illustrated) SCREW, set, panel fixing (not illustrate WASHER, spring (not illustrated) NUT (not illustrated)	1 ( 2 2 2



b black

r red

n brown

y yellow

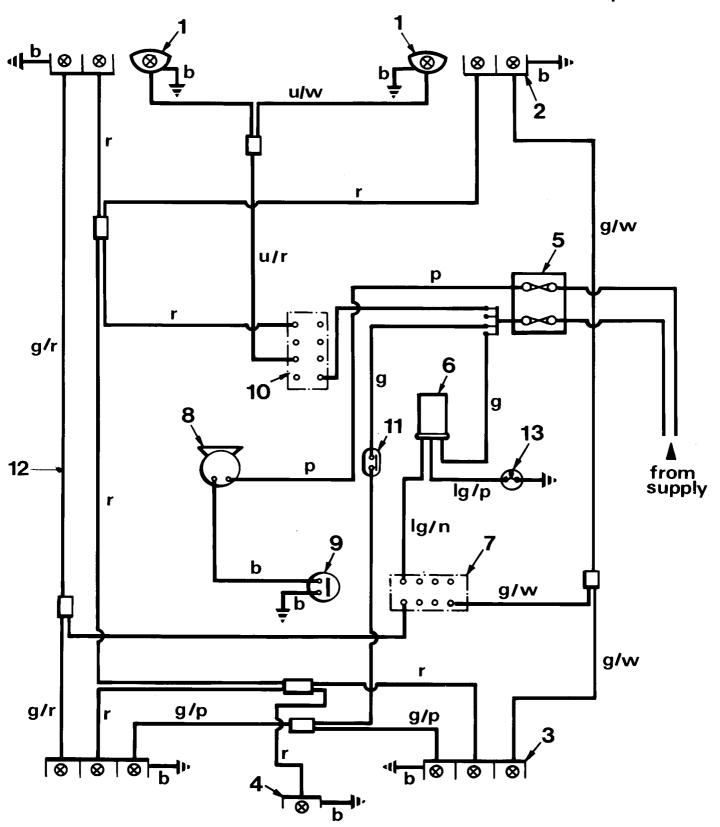
w white

g green

u blue

lg light green

Item	Part no	Serial no	Description	Qty
1	10740A01	/ APRIL 94	HEADLIGHT	2
1A	10973A02		BRACKET, headlight	2
2	10462A02		SIDELIGHT/INDICATOR	2
3	10512A02		REAR/STOP/INDICATOR	2
3A	82S03E		SCREW	16
3B	85S01		NUT	16
3C	12S01		WASHER	16
4	10615A01		LIGHT, number plate	1
4A	10982A01		BRACKET, number plate light	1
4B	11S02B		SCREW	2
4C	59S14		NUT	2
5 5 ^	10644A01		FUSE BOX	1
5A	82S03E		SCREW	1
5B	85S01		NUT FLASHER UNIT	1
6 7	10616A01 10620A02			1
7 7A	82S03C		SWITCH, indicator SCREW	1 1
7A 7B	12S01		WASHER	1
7C	85S01		NL	1
8	10618A01		HORN	1
8A	11S02B		SCREW	2
8B	59S14		NUT	2
	12S02		WASHER	2
9	10619A01		BUTTON, horn	1
9A	82S07E		SCREW	2
9B	85S03		NUT	2
10	10620A01		SWITCH, lights	1
11	10939A02		SWITCH, brake, c/w spring	1
11A	10972A01		BRACKET	1
11B	11S03A		SCREW	1
11C	59S02		NUT	1
11D	11S04A		SCREW	1
11E	59 <b>S</b> 03		NUT	1
11F	12S05		WASHER	1
12	20105A07		LOOM (OBSOLETE: use 20105A13 &	
			20105A14)	1



b black

r red

n brown

y yellow

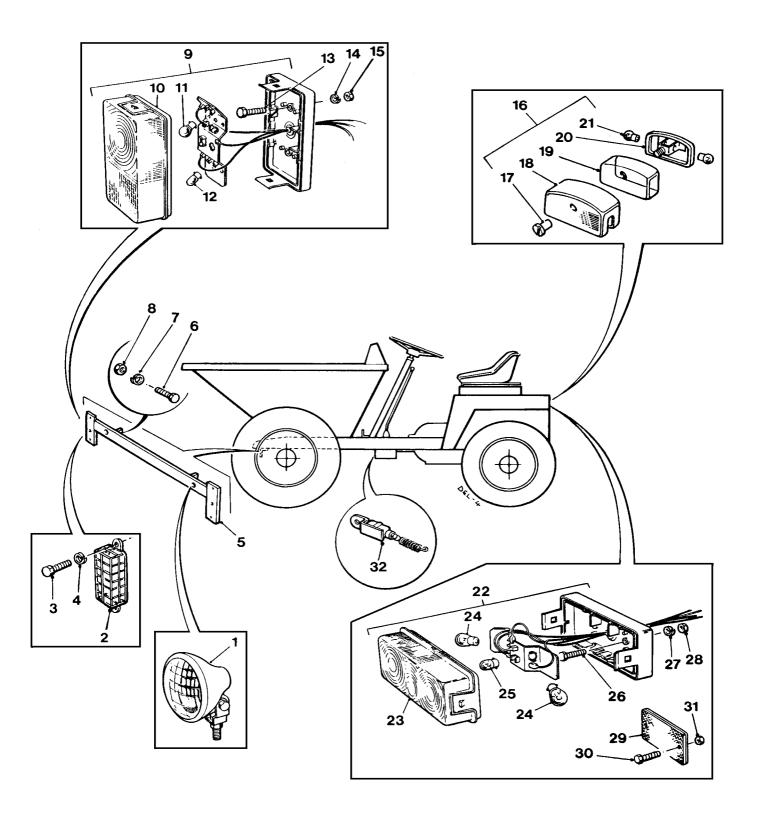
w white

g green

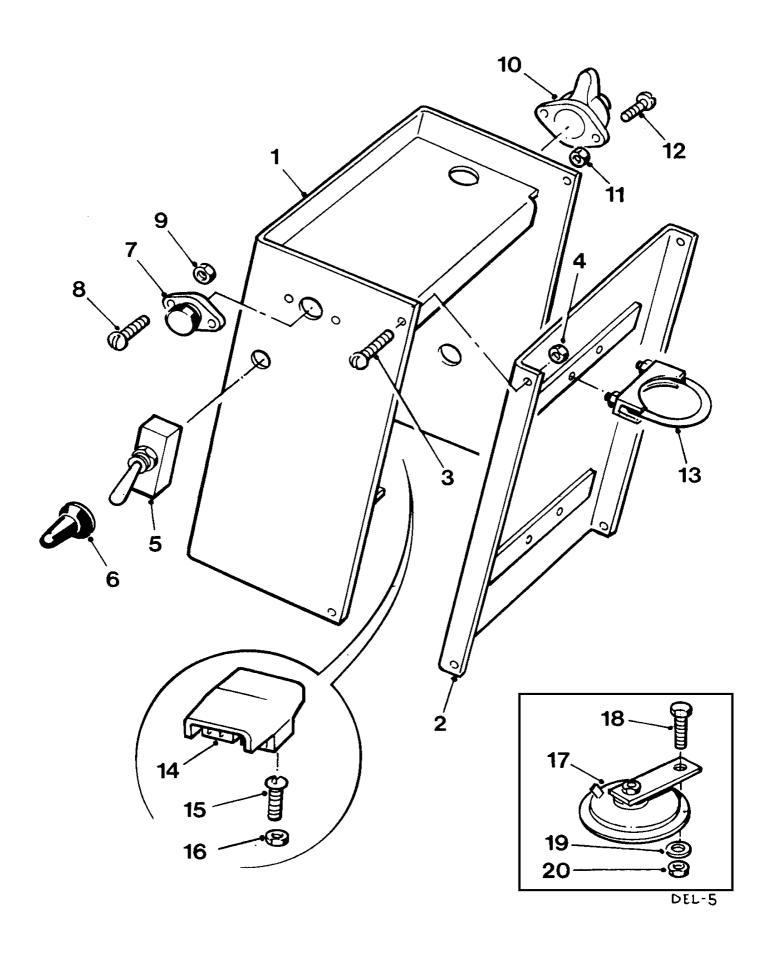
u blue

lg light green

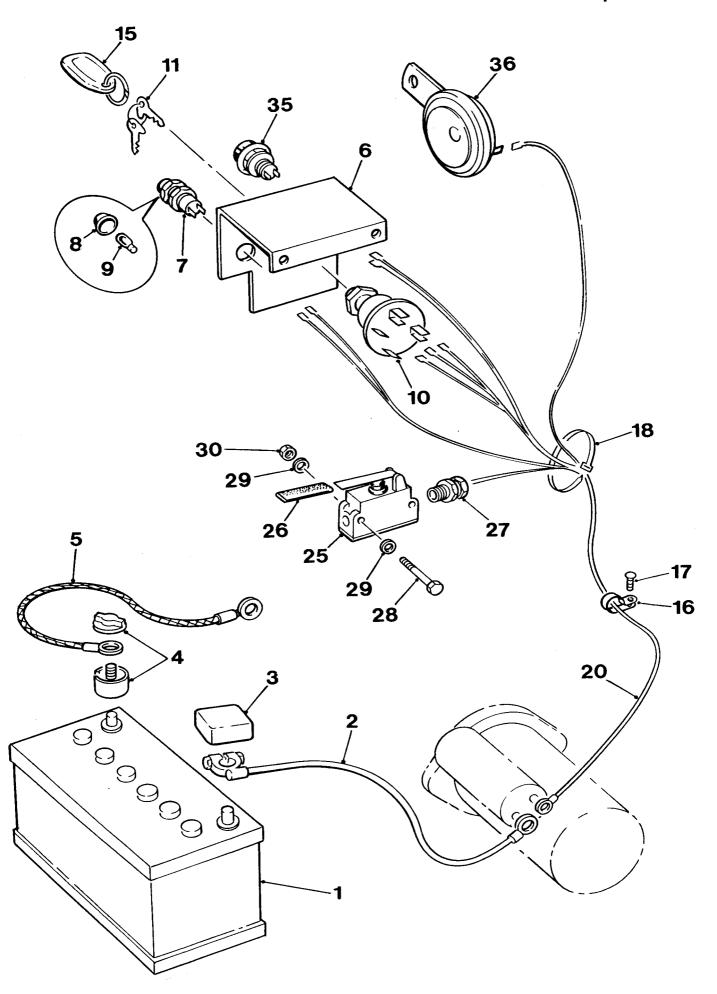
Item	Part no	Serial no	Description	Qty
-	20105A13		LOOM, front lights	1
-	20105A14		LOOM, rear lights	1
-	180S01		TIE, cable	AR
13	10593A01		WARNING LIGHT, indicator	1
14	30267A03		CONSOLE	1
15	20318A01		BACKPLATE	1
15A	82S03C		SCREW	2
15B	83\$03		NUT	2
15C	153S07		CLAMP	2
16	10983A01		ADAPTOR	1
17	10984A01		RING, locking	1
18	10985A01		CONDUIT	1
19	A25328		PLUG, blanking	AR
		Daytim	e road equipment	
20	CSE200		HORN	1
21	101S07		RIVET	1



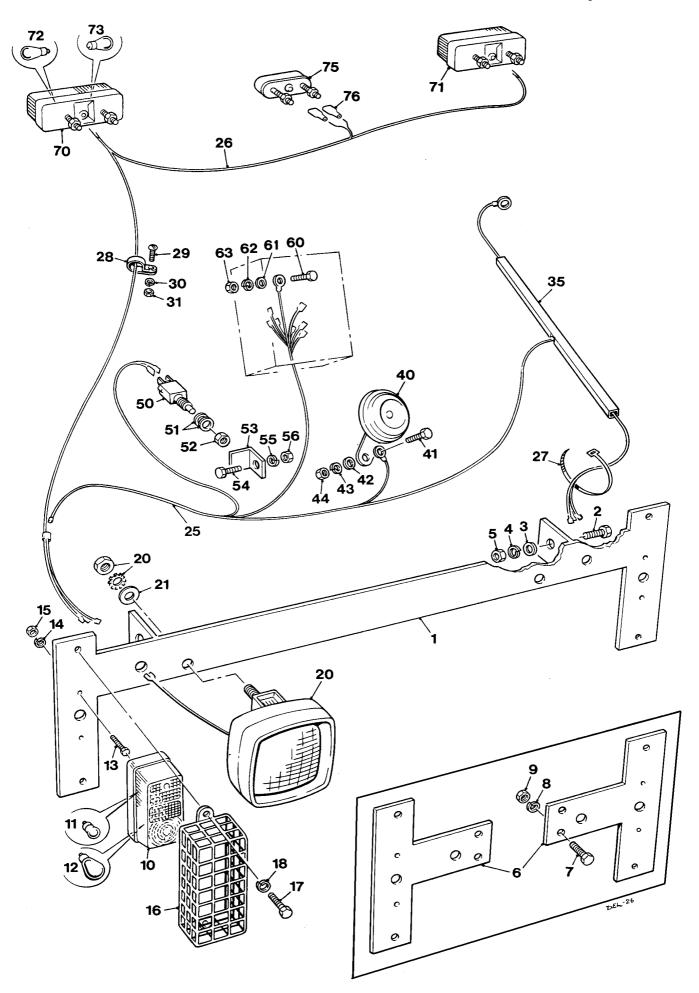
14	Dout to a	Contal	Description	<u> </u>
Item	Part no	Serial no	Description	Qty
1	V2003138 V2003139	/ April 94	WORKING LIGHT, assembly SEALED BEAM	2 1
2	V2003158		GUARD	2
3	11S03B		SCREW, set	2
4	17S04		WASHER, spring	2
		28	31000	
5	10973A03	/ 0568	BRACKET, lights	1
5	10973A03	0569 /	BRACKET, lights, hydraulic tipping	1
5	10973A04	0569 /	BRACKET, lights, gravity tipping	1
		28	31500	
5	10973A03	/ 598	BRACKET, lights	1
5	10973A03	599 /	BRACKET, lights, hydraulic tipping	1
5	10973A04	599 /	BRACKET, lights, gravity tipping	1
6	11S05D		SCREW, set	2
7	17S06		WASHER, spring	4
8	<b>7</b> \$05		NUT	2
9	V2003146		SIDELIGHT/INDICATOR, assembly	2
10	V2003149		LENS	1
11 12	V2003130 V2003137		BULB BULB	1 1
13 14	11S01B 17S02		SCREW, set WASHER, spring	2
15	7S01		NUT	2
16	V2003136		LIGHT, number plate, assembly	1
17	V2003136 V2003135		SCREW, cover to body	1 1
	V2003134		COVER, number plate light	1
19	V2003133		LENS, number plate light	1
20	V2003132		BODY & SEAL, number plate light	1
21	V2003131		BULB, 12 volt, 5 watt	2
22	V2003148		LIGHT, assy, R.,H. (illustrated)	1
-	V2003147		LIGHT, assy, L.H. (not illustrated)	1
23	V2003151		LENS, R.H. (illustrated)	1
-	V2003150		LENS, L.H. (not illustrated)	1
24	V2003145		BULB	2
25	V2003137		BULB	1
26	11S01A		SCREW, set	2
27	17S02		WASHER, spring	2
28 29	7S01 V2003159		NUT REFLECTOR	2
30	11S11A		SCREW, set	2
31	7S09		NUT	2
32	10939A02		SWITCH, brake	1



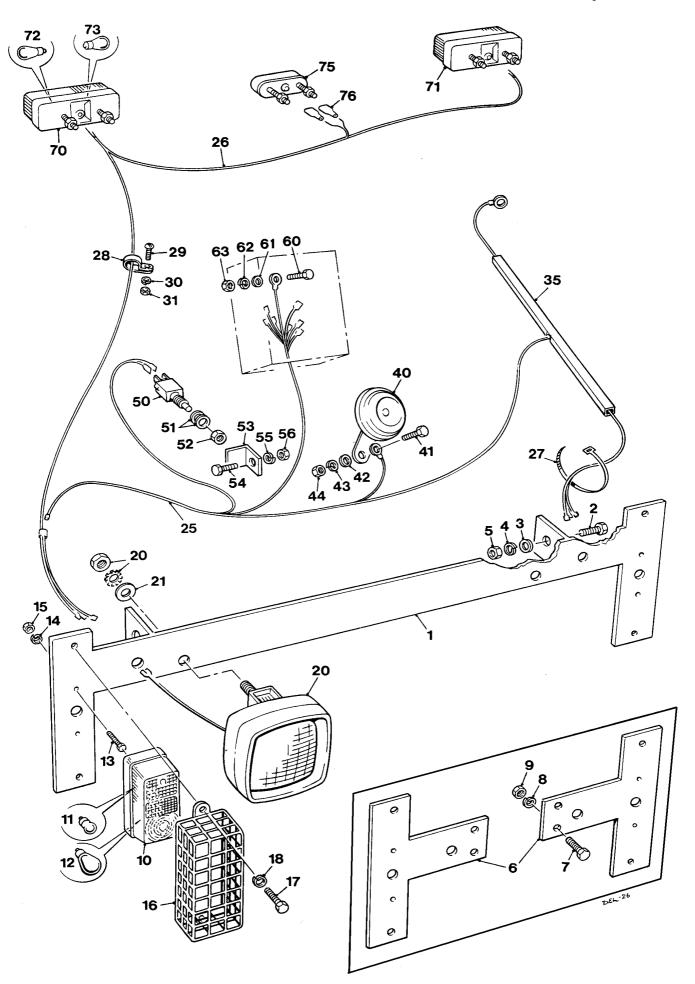
Item	Part no	Serial no	Description	Qty
			-	<u>-</u>
1	30267A03		CONSOLE	1
2	20318A01		BACKPLATE, console	1
3	82S03C		SCREW	4
4	83S03		NUT	4
5	V2003128		SWITCH, light	1
6	V2003140		GAITER, switch light	1
7	10619A01		HORN, button	1
8	82S07E		SCREW	2
9	85S03		NUT	2
10	10617A01		SWITCH, indicator	1
11	85S03		NUT	2
12	82S07E		SCREW	2
13	153S07		CLAMP	2
14	10644A01		FUSE BOX	1
15	82S03E		SCREW	1
16	85S01		NUT	1
17	V2003144		HORN	1
18	11S02B		SCREW, set	1
19	267S04		WASHER, flat	1
20	7S02		NUT	1



Item	Part no	Serial no	Description	Qty
			·	
1	109S08		BATTERY	1
2	10989A06		CABLE, positive	1
3	V2004204		INSULATOR, battery positive terminal	1
4	V2004214		ISOLATOR, battery negative terminal	1
5	V2003510		CABLE, earth	1
6	20313A06		PANEL, instruments Panel replaced by an engine cover on CE marked dumpers from Nov. 2002. See page A-1A for engine cover.	1
7	V602634		LIGHT, battery charging	1
8	V602635		LENS	1
9	V602636		BULB	1
J	7002000		5015	•
10	V2004189		SWITCH, key start	1
11	V601179		KEY, start switch	1
15	V2003540		RING, key	1
16	143200900		CLIP, cable	2
17	178SPS04C		SCREW, self-tapping	2
18	V2003111		TIE, cable	3
20	30231A11		LOOM, <b>NOT</b> CE marked dumpers	1
20	30231A12		LOOM, CE marked dumpers ONLY	1
			•	
25	208561000		SWITCH, start inhibitor	1
26	208143000		SLEEVE, black plastic	1
27	250166010		GLAND, cable	1
28	8S01F		BOLT	2
29	267S03		WASHER, flat	2
30	59S13		NUT, "Nyloc"	2
35	V2003570		BUTTON, horn	1
36	V2003570 V2003144		HORN	1
50	V 2000 I -T-T		HOINT	•

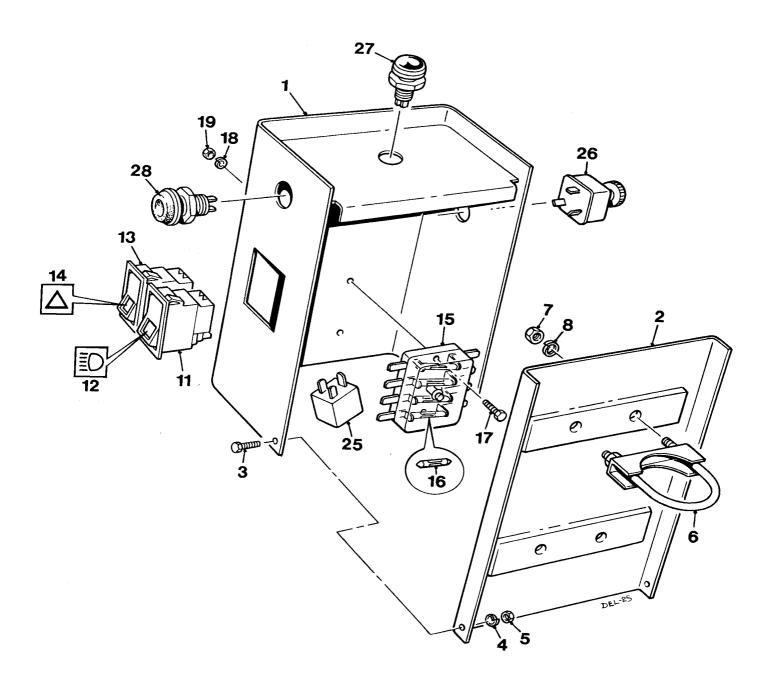


Item	Part no	Serial no	Description	Qty
1	10973A03		BRACKET, front lights (rotating & hyd. tipping earth skips)	1
2	11S05F		SCREW, set	2
3	267S07		WASHER, flat	2
4	17S06		WASHER, spring	2
5	7S05		NUT	2
6	10973A04		BRACKET, front lights (high discharge & gravity tip earth skips	2
7	11S03E		SCREW, set	2
8	17S04		WASHER, spring	2
9	7S03		NUT	2
10 — 11 12 13 14 15	V2003652 V2003637 ———————————————————————————————————		LIGHTS, R.H. front, assembly LIGHTS, L.H. front, assembly (not ill.) BULB, sidelight 12V 5W BULB, indicator 12V 21W SCREW, set WASHER, spring NUT	1 1 1 4 4 4
16	V2003158		GUARD	2
17	11S03AA		SCREW, set	4
18	17S04		WASHER, spring	4
20 21	V2003638 V2004220		LIGHT, head, c/w nut & washer WASHER, Special	2 2
25	20105A15		LOOM, front	1
26	20105A14		LOOM, rear	1
27	V2003111		TIE, cable, 200mm long	8
27	V2003253		TIE, cable, 390mm long	4
28	143200900		CLIP, nylon	7
29	16S05B		SCREW	7
30	17S10		WASHER, spring	7
31	7S09		NUT	7
35	V2004043		CONDUIT	AR
40 41 42 43 44	V2003144 11S03B 267S05 17S04 7S03		HORN SCREW, set WASHER, flat WASHER, spring NUT	1 1 1 1
50	V2003168		SWITCH, brake lights	1
51	267S07		WASHER, flat	AR
52	95S05		NUT	1



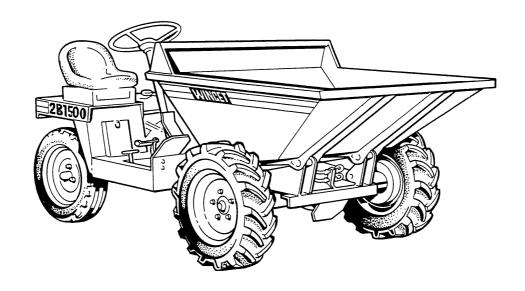
### ROAD LIGHTS (from 1994)

Item	Part no	Serial no	Description	Qty
53			BRACKET	1
54	11S03C		SCREW, set	1
55	17S04		WASHER, spring	1
56	<b>7</b> \$03		NUT	1
60	11S03B		SCREW, set (console earth terminal)	1
61	267S05		WASHER, flat	1
62	17S04		WASHER, spring	1
63	7S03		NUT	1
70	V2003651		LIGHT, R.H. rear, assembly	1
71	V2003636		LIGHT, L.H. rear, assembly	1
72			BULB, indicator, 12V 21W	1
73	<del></del>		BULB, brake/rear sidelight, 12V 21/5	5W
75	V2003639		LIGHT, number plate	1
76	191906000		CONNECTOR, 1/4" female Lucar	2
10	19190000		CONNECTOR, 1/4 Terriale Lucal	2
_	191901900		Four-way common contact connector (not illustrated)	1



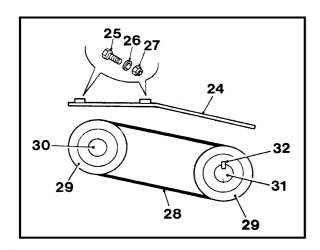
Item	Part no	Serial no	Description	Qty
1	30267A04		CONSOLE	1
2	20318A01		BACKPLATE, console	1
3	11S01AA		SCREW, set	2
4	17S02		WASHER, spring	2
5	7S01		NUT	2
6 7 8	153S05 7S03 17S04		CLAMP, (discard bracket) assembly NUT WASHER, spring	1 2 2
11	V2003644		SWITCH, lights	1
12	V2003646		INSERT, mainbeam	1
13 14	V2003641 V2003647		SWITCH, hazard lights INSERT, hazard lights	1 1
15 15A 16 16A	V2003176 V601177 V2003177 V601173	1020/ /1021	FUSE BOX, obsolete use item 15A FUSE BOX, FUSE, bullet, use with item 15 FUSE, blade, use with item 15A	1 1 AR AR
17	11S01A		SCREW, set	2
18	17S02		WASHER, spring	2
19	7S01		NUT	2
25	V2003640		UNIT, flasher	2
26	V2003642		SWITCH, indicators	1
27	V2000326		LIGHT, indicator warning	1
28	V2003570		BUTTON, horn	1

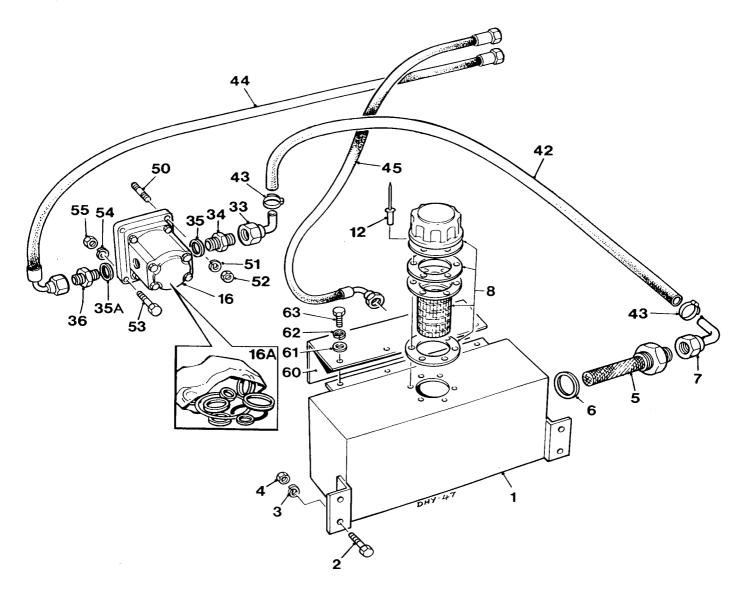
# 2B1000 & 2B1500 DUMPERS



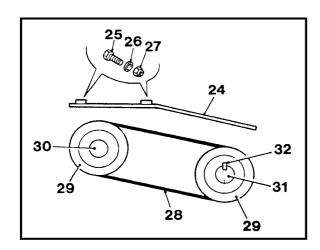
## **Hydraulics**

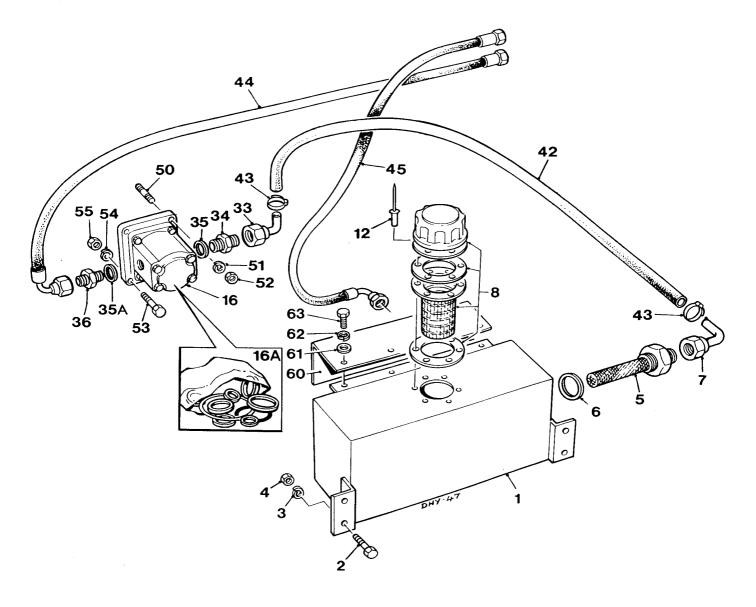
HYDRAULIC PUMP & TANK	H - 1
SKIP TIPPING HYDRAULIC CIRCUIT	H - 1A
CONTROL VALVE. Up to January 1988	H - 1B
CONTROL VALVE.	H - 2
SECTION of control valve	H - 3
From January 1988 to April 1996	
CONTROL VALVE. From April 1996	H - 4
RAM, STANDARD SKIP TIPPING, IMPERIAL	H - 6
RAM, STANDARD SKIP TIPPING, METRIC	H - 6A
RAM, HIGH DISCHARGE SKIP TIPPING	H - 7
RAM, ROTATING SKIP TIPPING	H - 8



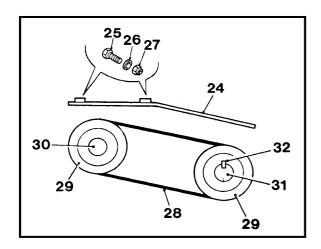


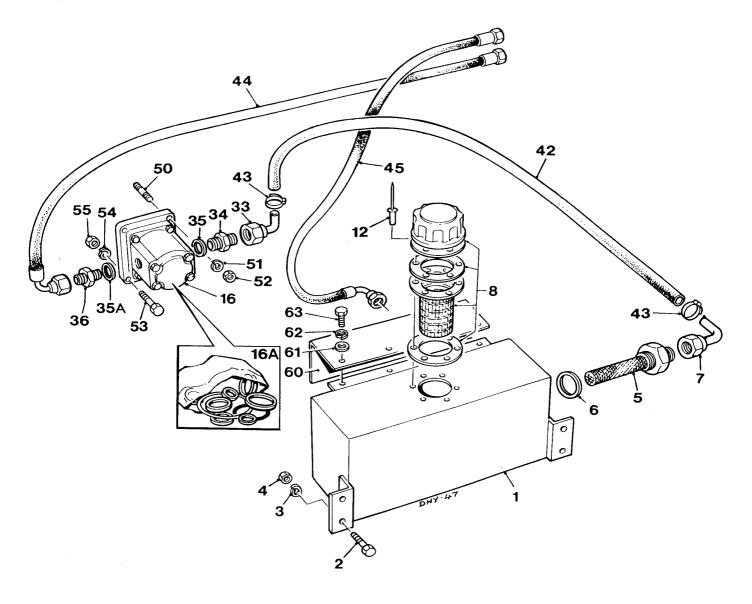
Item	Part no	Serial no	Description	Qty
1	30286A08		TANK, hydraulic (see following note	1
		to machine serial nounting bracket was	umbers:0552 (2B1000) and 0585 (2B15) welded to the tank.	500),
When	replacing a hy ol valve bracke	ydraulic tank on ma	chines prior to these serial numbers, a le 20A0810) will also be required to be welc	
2	11S04C		SCREW	4
3 4	17S05 7S04		WASHER NUT	4 4
5 6	901S02 186S14	/ Apr 96	FILTER WASHER, nylon	1
6	100S14 100S08	•	(OBSOLETE: use 100S08) SEAL, bonded	1 1
		Apr 96 /	,	
8	129S05E 10565A01 101S07E		ELBOW CAP, filler, complete RIVET	2
		Machines fi	tted with Petter engines	
_	10977A01 11040A01		#PUMP, "Dowty" # PUMP, "Sundstrand"	1 1
.0	110107101		tted with Lister ST engines	•
	10977A02 11040A02		#PUMP, "Ultra", #PUMP, "Sundstrand"	1 1
10			·	ı
16	10977A03		r-Petter TS1 & TR1 engines #PUMP, "Ultra/Dowty"	1
	11040A03 11040A03		# PUMP, "Sundstrand", <b>2B1000</b> # PUMP, "Sundstrand", <b>2B1500</b>	1 1
	10977A03 10977A03	0590 / 617 /	# PUMP, "Ultra/Dowty", <b>2B1000</b> # PUMP, "Ultra/Dowty", <b>2B1500</b>	1 1
	Lister-Petter	TR1 Engines fitted	with Bosch Hydraulic Pumps	
	10977A05 10977A05	<b>3</b>	# PUMP, "Bosch", <b>2B1000</b> # PUMP, "Bosch", <b>2B1500</b>	1 1
			ent pumps, state whether "Bosch" (on serial plate on pump)	
	10190A01 11046A01		KIT, pump repair, "Dowty" & "Ultra" KIT, pump repair, "Sundstrand"	AR AR



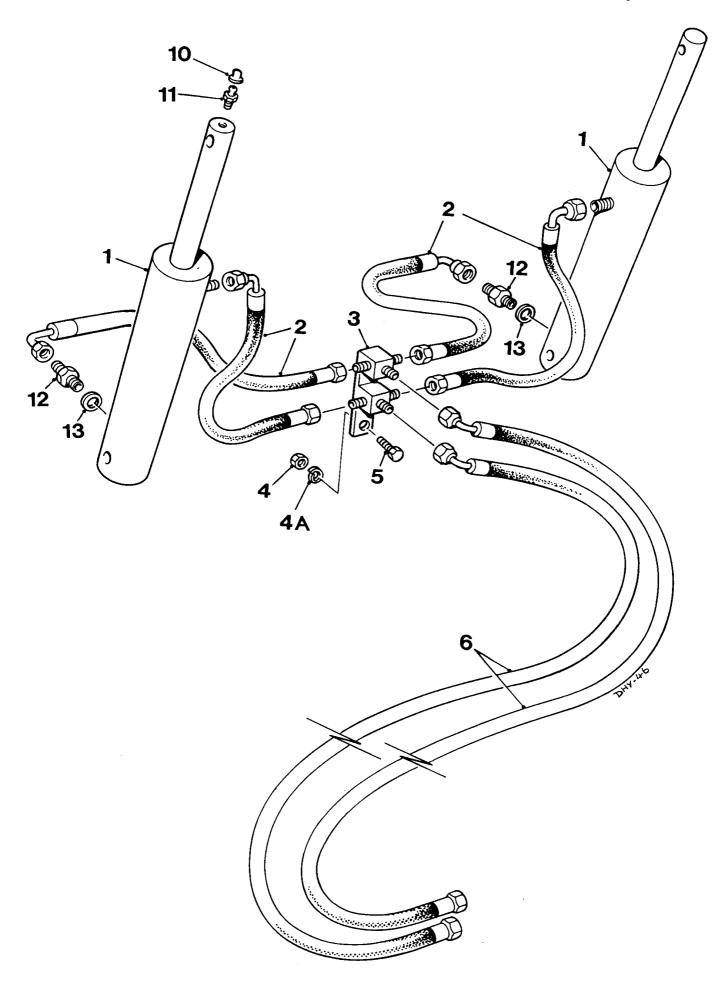


Item Pa	rt no	Serial no	Description	Qty
		Bracket fittings	for belt driven pumps	
303		/ Jun 86 Jun 86 /	BRACKET, pump mounting BRACKET, pump mounting	1 1
****** 52S ****** 12S ***** 59S	02		SCREW, pump to bracket WASHER, pump to bracket NUT, pump to bracket	4 4 4
****** 11S ****** 12S ****** 59S	05		SCREW, bracket to chassis WASHER, flat, bracket to chassis NUT, nylon insert, bracket to chassis	2 2 2
24 10	944A03	Machines fitted	with Petter engines GUARD,belt, hand start only	1
24 10	944A04	Machines fitted	with Lister ST engines GUARD,belt, hand start only	
26 12 27 59 28 2S 29 AS 30 10 31 2S	S02B S02 S14 T121 E154 978S01 T123 E159		SCREW, guard to pump bracket WASHER, guard to pump bracket NUT, nylon insert, guard to pump bkt. BELT, wedge PULLEY BUSH, taper lock, pump BUSH, taper lock, engine KEY, engine start	2 2 2 2 2 1 1
33 156 33 123 33 129	S01	Jun 86 / / Apr 90 May 90 /	ADAPTOR, straight ELBOW ELBOW	1 1 1
34 119 34 122 34 122 34 119 34 119 34 122 34 122	S06 S06 S13 S13 S06	/ Nov 88 Nov 88 / 0589 Nov 88 / 616 0590 / 617 /	ADAPTOR ("Ultra/Dowty") ADAPTOR ("Sundstrand") 2B1000 ADAPTOR ("Sundstrand") 2B1500 ADAPTOR ("Ultra/Dowty") 2B1000 ADAPTOR ("Ultra/Dowty") 2B1500 ADAPTOR ("Bosch") 2B1000 ADAPTOR ("Bosch") 2B1500	1 1 1 1 1
35 100 35 100 35 100 35 100 35 100 35 100	S06 S06 S04 S04 S06	Nov 88 / 0589 Nov 88 / 0616 0590 / 617 /	SEAL, bonded, ("Ultra/Dowty") SEAL, bonded, ("Sundstrand") 2B1000 SEAL, bonded, ("Sundstrand") 2B1500 SEAL, bonded, ("Ultra/Dowty") 2B1000 SEAL, bonded, ("Ultra/Dowty") 2B1500 SEAL, bonded, ("Bosch") 2B1000 SEAL, bonded, ("Bosch") 2B1500	1 1 1 1 1 1



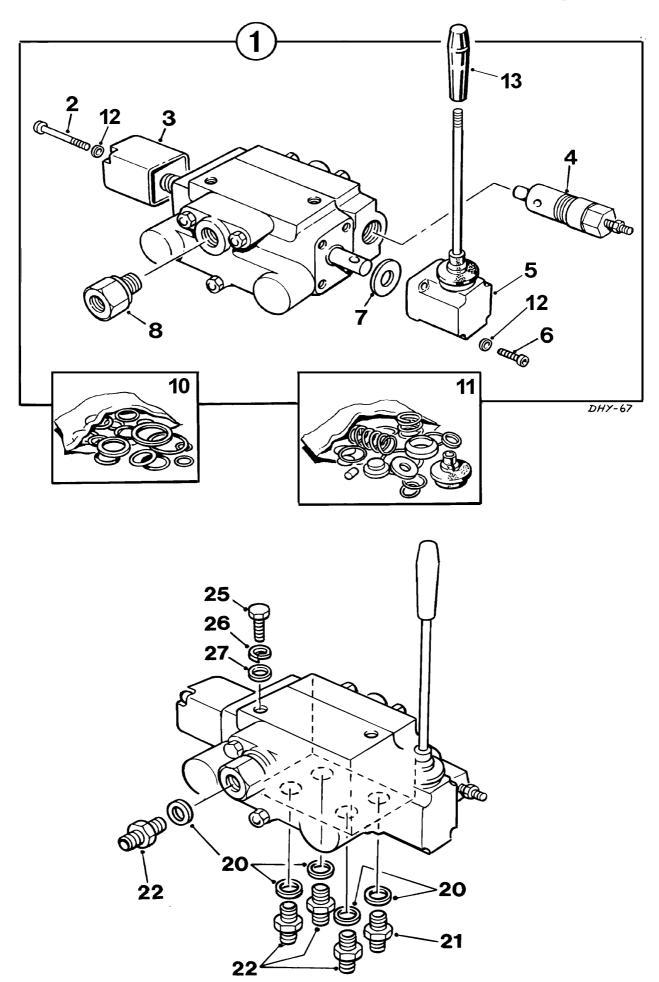


Item	Part no	Serial no	Description	Qty
	100S04 119S08		SEAL, bonded ADAPTOR	1
42	37S01W	Machines fitte	d with Petter engines HOSE	1
42	37S01X	Machines fitte	d with Lister ST engines HOSE	1
42	37S01K	<b>Machines fitte</b> Jun 86 /	d with Lister-Petter TS1 & TR1 engines HOSE, 600mm long	<b>3</b>
44	V2003232 31S02V 31S02AA		CLIP, hose HOSE HOSE	2 1 1
53		Parts of engi	ne (see engine catalogue) STUD WASHER NUT SCREW WASHER	
60 60	V2004392 V2004392	0602 / 0636 696 / 852	GUARD, hoses, <b>2B1000</b> GUARD, hoses, <b>2B1500</b> Guard replaced by an engine cover on CE marked dumpers from Nov. 2002 See page A-1A for engine cover.	1
61 62 63	267S05 17S04 11S03B		WASHER, flat WASHER, spring SCREW	4 4 4



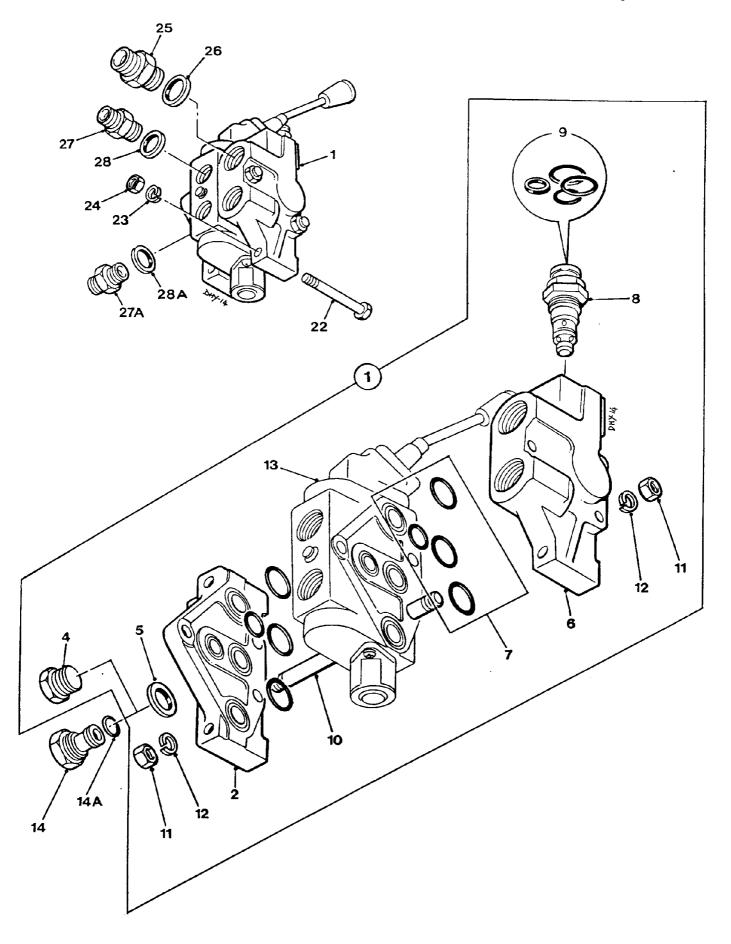
#### SKIP TIPPING HYDRAULIC CIRCUIT

Item	Part no	Serial no	Description	Qty
1	30287A02		RAM (see page H-5)	2
2	31S02GG		HOSE	4
3	10464A02		FITTING, double tee bracket	1
4	7S03		NUT	1
4A	17S04		WASHER, spring	1
5	11S03E		SCREW, set	1
6	31S02YY		HOSE	2
40	170004		040	
10	176S01		CAP, grease nipple	4
11	131S01		NIPPLE, grease, straight	2
_	131S02		NIPPLE, grease, 90 deg.	2
12	122502		ADADTOD m/m	2
12	122S03		ADAPTOR, m/m	2
13	100S03		SEAL, bonded	2

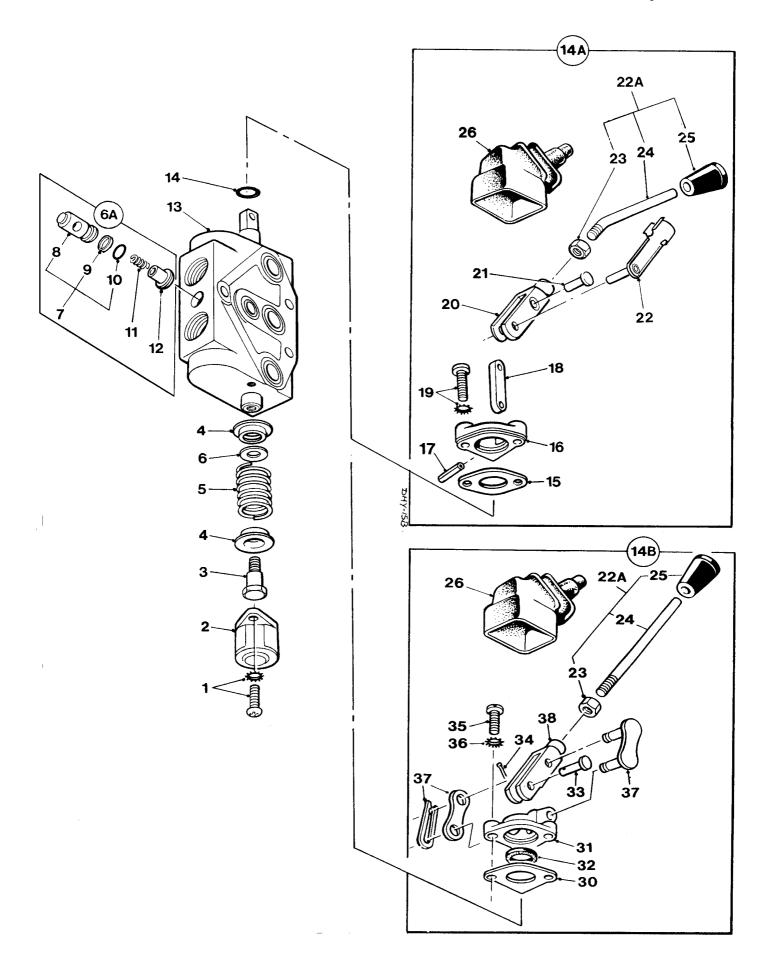


### CONTROL VALVE, (up to January 1988)

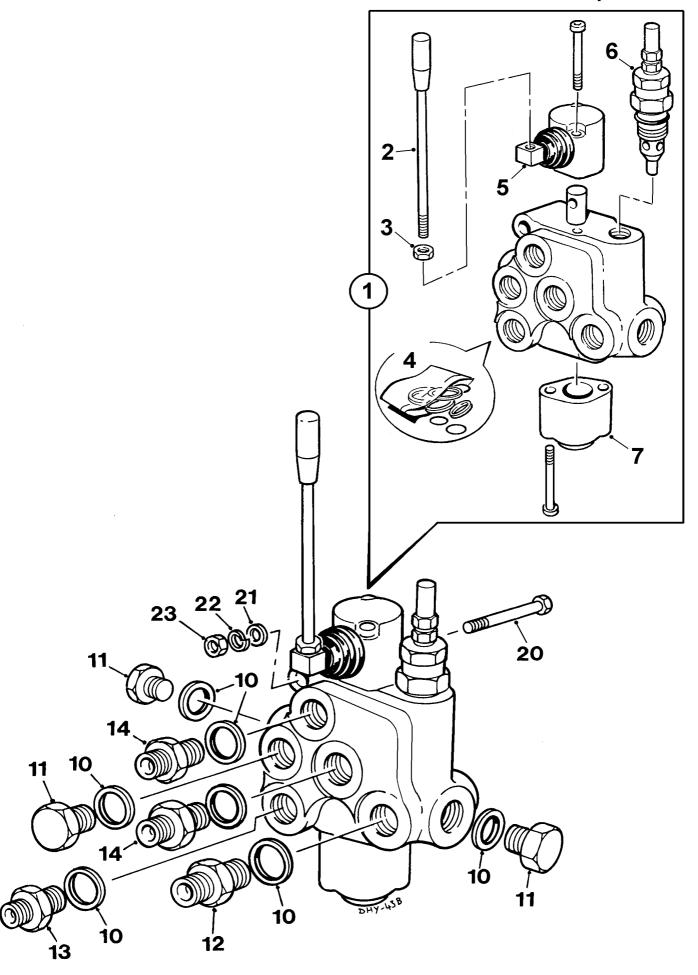
Item	Part no	Serial no	Description	Qty
1	30322A04	/ Jan-88	CONTROL VALVE	1
2	30322A0502		SCREW, socket cap head	2
3	30322A0204		CAP, end	1
4	30322A0102		VALVE, relief	1
5	30322A0503		HANDLE, assembly	1
6	68S02B		SCREW, socket cap head	4
7	10S05		SPACER, washer	1
8			NOT USED	1
10	451441502		KIT, seals	1
11	30322A0203		KIT, repair	1
12	13S01		WASHER	8
13	30322A0505		KNOB	1
20	100S04		WASHER, bonded	5
21	122S04		ADAPTOR	1
22	119S08		ADAPTOR	4
25	11S03AA		SCREW, set	2
26	267S05		WASHER, flat	2
27	17S04		WASHER, spring	2



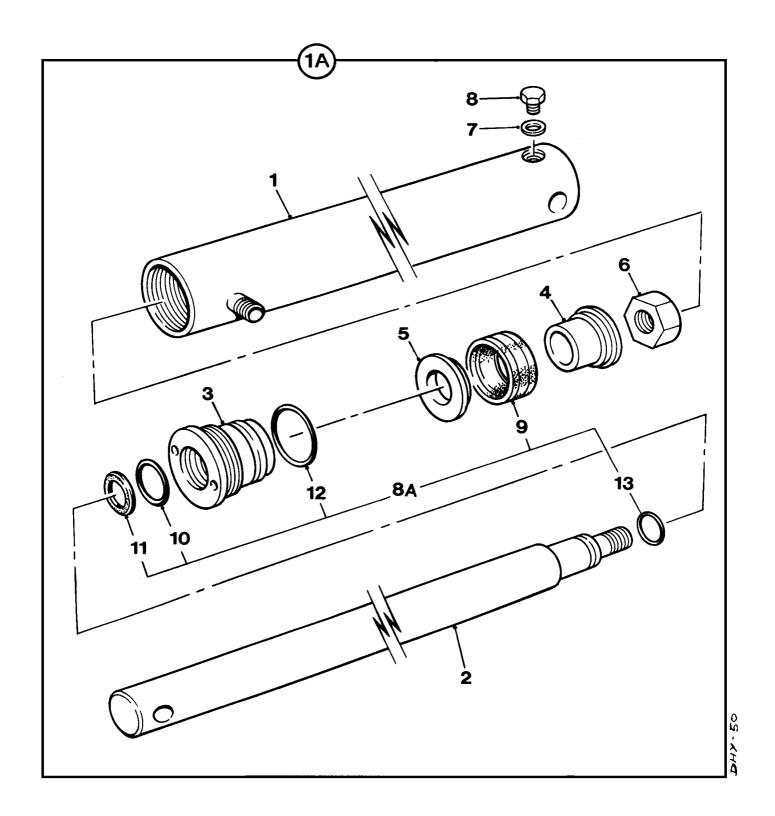
Item	Part no	Serial no	Description	Qty
		JAN 88 / 0719 JAN 88 / 616	2B1000 2B1500	
1	V2000398		CONTROL VALVE, assembly	1
2	V600017		COVER, inlet	1
4	127S04		PLUG, blanking	1
5	100S06		SEAL, bonded	1
6	V2003124		COVER, end	1
7	V600178		KIT, seals	1
8	V600022		VALVE, relief	1
9	V600023		KIT, seals	1
10	V600024		STUD	3
11	9S03		NUT	3
12	41S05		WASHER, spring	3
13	-		SECTION, control valve (see pa	ge H - 3)
14 14A	-		NOT USED NOT USED	
22	8S04J		BOLT	3
23	17S05		WASHER, spring	3
24	7S04		NUT	3
25	119S10		ADAPTOR	2
26	100S06		SEAL, bonded	2
27	119S08		ADAPTOR	2
27A	-		NOT USED	
28	100S04		SEAL, bonded	2
28A	-		NOT USED	



Item	Part no	Serial no	Description	Qty
		JAN 88 / 0719 JAN 88 / 616	2B1000 2B1500	
1	V600026		SCREW, c/w washer	2
2	V600190		CAP, end	1
3	V2003115		SCREW, shoulder	1
4	V2003117		SEAT, spring	2
5	V2003114		SPRING	1
6	V600179		SPACER	1
6A	V600180		CHECK VALVE, assembly	1
7	V600181		KIT, REPAIR, check valve	1
8	V2003118		GUIDE, check valve	1
9	V600182		RING, back up	1
10	V600183		SEAL, 'O' ring	1
11	V2003119		SPRING	1
12	V2003120		POPPET	1
13	V600176		BODY, c/w spool	1
14	V2003113		SEAL, 'O' ring	2
14A	V600057	JAN 88 / OCT 93	LEVER, control valve, assembly	1
14B	V602166	OCT 93 /	LEVER, control valve, assembly	1
15	V2003122	JAN 88 / OCT 93	SEAL, wiper	1
16	V600059	JAN 88 / OCT 93	BRACKET, handle	1
17	V600060	JAN 88 / OCT 93	PIN, roll	1
18	V600061	JAN 88 / OCT 93	LINK	1
19	V600062	JAN 88 / OCT 93	SCREW, c/w washer	2
20	V600063	JAN 88 / OCT 93	CLEVIS	1
21	V600064	JAN 88 / OCT 93	PIN	1
22	V600065	JAN 88 / OCT 93	PIN, clip	1
22A	V600159		LEVER, assembly	1
23	V600066		NUT	1
24	V602478		HANDLE	1
25	V600068		KNOB	1
26	V600069		GAITER	1
30	V602448	OCT 93 /	PLATE, seal	1
31	V602449	OCT 93 /	BRACKET	1
32	V2003122	OCT 93 /	SEAL, wiper	1
33	V602476	OCT 93 /	PIN, clevis	1
34	V602476 V602475	OCT 93 /	PIN, split	1
35	V602475 V602447	OCT 93 /	SCREW	2
	V602446	OCT 93 /	WASHER	2
37		OCT 93 /	LINK	1
38	V602477	OCT 93 /	CLEVIS	1

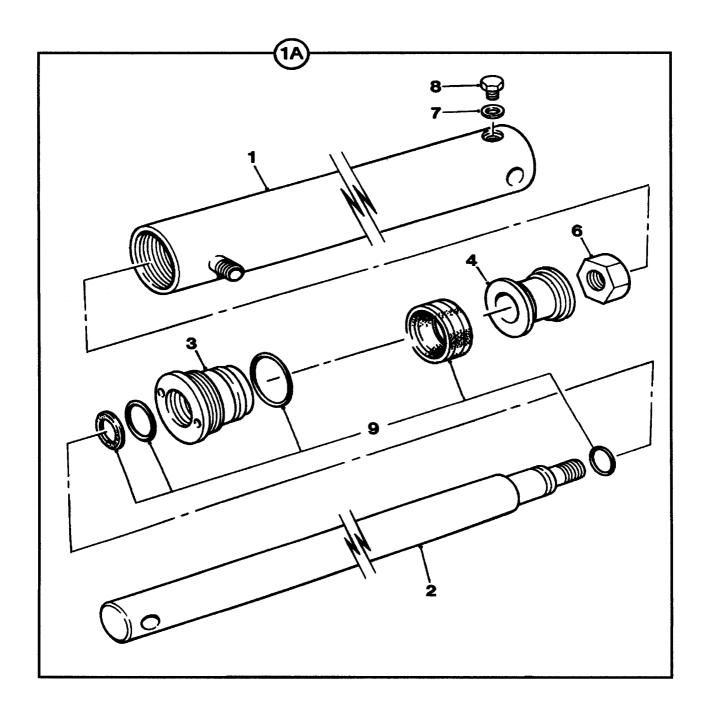


Item	Part no	Serial no	Description	Qty
		0719 / 616 /	2B1000 2B1500	
1	V2004106		VALVE, control, assembly	
2	V602630		LEVER, knob & nut, assembly	1
3	7S04		NUT	1
4	V602629		KIT, control valve repair	AR
5	V603565		END CAP, lever	1
6	V603605		VALVE, relief	1
7	V603606		END CAP, spring base	1
10	100S03		SEAL, bonded	7
11	127S03		PLUG, male	2
12	122S03		ADAPTOR, m/m, from pump	1
13	122S03		ADAPTOR, m/m, to tank	1
14	122S03		ADAPTOR, m/m, to rams	2
20	8S03H		BOLT	2
21	267S05		WASHER, flat	2
22	17S04		WASHER, spring	2
23	7S03		NUT	2



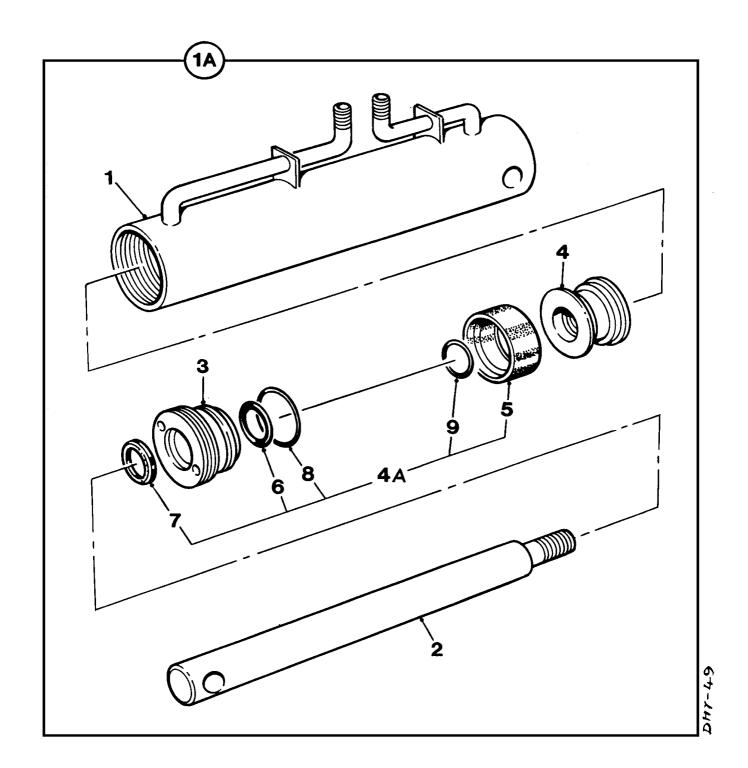
Item	Part no	Serial no	Description	Qty
1A	30287A02		RAM, hyd, assembly Obsolete, see page H-6A	1
1	30287A0201		CYLINDER, ram	1
2	30287A0202		ROD, piston	1
3	30287A0203		NUT, gland ring	1
4	30287A0204		PISTON, rear	1
5	30287A0205		PISTON, front	1
6	163S08		NUT, nylon insert	1
7	100S03		SEAL, bonded	1
8	127S03		PLUG, blanking	1
8A	10558A08		KIT, seals	1
9	30287A0206		SEAL	1
10	30287A0207		SEAL	1
11	30287A0208		SEAL, wiper	1
12	30287A0209		SEAL, 'O' ring	1
13	30287A0210		SEAL, 'O' ring	1

The imperial ram assembly part no 30287A02 was rendered obsolete at the end of 2008 and replaced by a metric ram assembly part no 30287A06, refer to page H-6A. Seal kits part no 10558A08 are still available to service existing imperial rams.



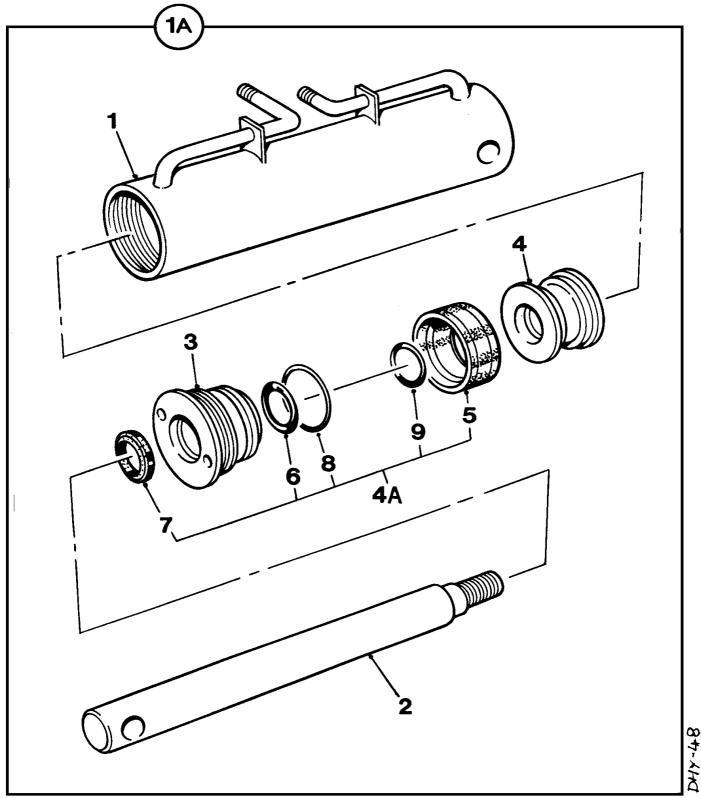
Item	Part no	Serial no	Description	Qty
1A	30287A06		RAM, hyd, assembly, metric rod & cy	1
1	30287A0601		CYLINDER, ram (metric)	1
2	30287A0602		ROD, piston (metric)	1
3	30287A0603		NUT, gland ring	1
4	30287A0604		PISTON, one piece	1
5	30287A0605		Spacer, rod, not illustrated	1
6			NUT, nylon insert M20x1.5	1
6A	54S04K		Pin, tension M5x30	1
7	100S03		SEAL, bonded	1
8	127S03		PLUG, blanking	1
9	10558A11		KIT, seals	1

Introduced January 2009 to replace imperial ram part number 30287A02. First used on 2B1500 machine serial no L2B15VA1058



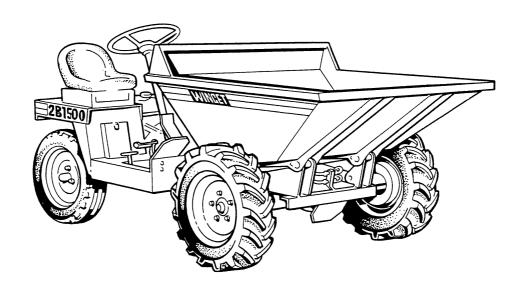
## RAM, tipping, high discharge skip

Item	Part no	Serial no	Description	Qty
1A	30113A03		RAM, assembly	1
1	30113A0301		CYLINDER, ram	1
2	30113A0302		ROD, piston	1
3	30113A0303		RING NUT, gland	1
4	30113A0304		HEAD, piston	1
4A	10558A07		KIT, seals	1
5	30113A0305		SEAL	1
6	30113A0306		SEAL	1
7	30287A0208		SEAL, wiper	1
8	30113A0307		SEAL, 'O' ring	1
9	30113A0308		SEAL, 'O' ring	1



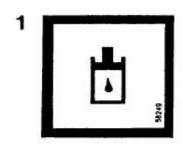
Item	Part no	Serial no	Description	Qty
1A	30113A02		RAM, assembly	1
1	30113A0201		CYLINDER, ram	1
2	30113A0202		ROD, piston	1
3	30113A0203		RING NUT, gland	1
4	30113A0304		HEAD, piston	1
4A	10558A09		KIT, seals	1
5	30113A0305		SEAL	1
6	30113A0204		SEAL	1
7	30287A0208		SEAL, wiper	1
8	30113A0307		SEAL, 'O' ring	1
9	30113A0308		SEAL, 'O' ring	1

# 2B1000 & 2B1500 DUMPERS



## Miscellaneous

DECALS & PLATES	J-1 to J-3
SPECIAL TOOLS	J - 10



2



# 4 WINGET



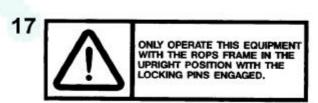


12 TAKE EXTRA CARE WHEN TIPPING NON FREE RUNNING LOADS

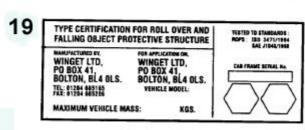




WARNING
DO NOT WORK UNDER
UNPROPPED SKIP











DECALS & PLATES J - 1

Item	Part no	Serial no Description	Qty
_	V601778 V601779	# KIT, decals, <b>2B1000</b> # KIT, decals, <b>2B1500</b>	1 kit 1 kit
_	V001779	# Each kit contains all decals required	i Kit
		for one dumper	
1	V2003100	DECAL, Hydraulic oil	
2	V2003101	DECAL, Diesel fuel	
3	V2003038	DECAL, Stripe, bodywork,	
4	V2003039	DECAL, Winget logo	
10	10284A01	DECAL, Dump/return	
11	V2003037	PLATE , Serial Number	
12	10536A02	DECAL, Non free running loads	
15	4602331	DECAL, Negative earth (obsolete: use V2004235)	
15A	V2004235	DECAL, Negative earth	
16	DM157	DECAL, Skip warning	
17	V2005310	DECAL, R.O.P.S. folding	
18	V2004754	DECAL, Damage to R.O.P.S. frame	
19	V2005030	PLATE, R.O.P.S. identification	
	101S05D	RIVET, used with plate item 19.	
20	V2004791	DECAL, Max. payload 1250kgs	
21	V2004680	DECAL, Tighten slew ring bolts	

### <sup>1</sup> 2B 1000

### <sup>2</sup> 2B 1500

DOM	ew.	E1004	DAM AND	Notes and	-	STATE CONTRACT	POMAS DES
	BEK.		Name (Care Co	MINE -	CHOLENO N	MADE 2	252
CAPTON CAPTON	関門	H21	MARCHING AT THOSE	MEET		SEED OF	983
Bell Bell Dermed	意代				-		
-	SEL.	388		BIBER	AMELIA MA		
Real .	STORY OF STREET	Micros 1139 Deline 1239 Deline 1239 Deline SPRING DOVING	MONEAUD-123		MENC CO.		
	SERVE,	HERL-		EELF	CONTACT NO. 20	Marrie 12	Man.



<sup>9</sup> 35 p.s.i.

15 Top up with Hydraulic Oil ONLY DO NOT use Brake Fluid





18 Lwa Lwa 105 dB

18A D LWA 104 dB

1 Before starting this mechine, the operator should be familiar with the operating instructions issued by the manufacturer.

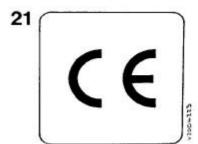
The manufacturer's rated capacity must never be exceeded.

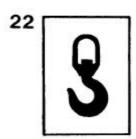
Before carrying out any maintenance, servicing, or

3 Before carrying out any maintenance, servicing, or greasing, always ensure that the engine has been switched off. Never work on a machine while it is running.

W504694600









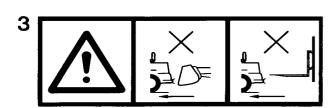
DECALS & PLATES J - 2

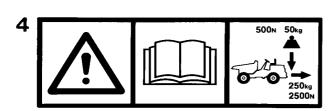
Item	Part no	Serial no	Description	Qty
1	V2003152		DECAL, 2B1000	
2	V2003153		DECAL, 2B1500	
3	DM197		DECAL, Lubrication oils	
7	V2003142		DECAL, Warning - wheel nuts	
9	10540A02		DECAL, 35psi tyre pressure	
15	10848A01		DECAL, Brake fluid	
16	V2004652		DECAL, Max. payload 1000kgs	
17	V2004472		DECAL, Max. payload 1500kgs	
18	V2003575		DECAL, LWA 105	
18A	V2005317		DECAL, LWA 104	
19	504694600		DECAL, Safety warning	
20	V2003598		DECAL, British made	
21	V2004223		DECAL, CE	
22	V2003665		DECAL, Lift here	
23	V2004225		DECAL, IS0 skip support	

#### 2B1000 & 2B1500 Dumpers













WHEN MACHINE UNATTENDED REMOVE STARTING HANDLE TO PREVENT UNAUTHORISED USE.



ONLY DISCHARGE ON LEVEL GROUND.
ONLY USE FREE FLOWING MATERIALS.
ONLY ROTATE WHEN FRONT CHASSIS IS
STRAIGHT AHEAD AND ON LEVEL GROUND.
ENGAGE SKIP LOCK WHEN TRAVELLING.
LIFT SKIP TO DISENGAGE LOCK
BEFORE ROTATING.

10

maximum payload 1130 kgs

11

#### maximum payload 1250kgs





14

DO NOT LEAVE THIS MACHINE WITH THE SKIP RAISED. BE AWARE THAT THE SKIP WILL LOWER QUICKLY TO THE CHASSIS IF THE TIPPING LEVER IS OPERATED WHEN THE ENGINE IS SWITCHED OFF.

15



REGULATIONS.

ENSURE HEAPED LOAD DOES NOT RESTRICT FORWARD VISIBILITY

 $^{8}\Gamma$ 







16

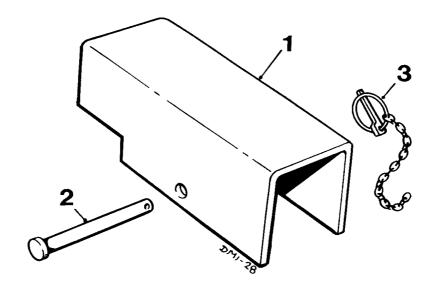


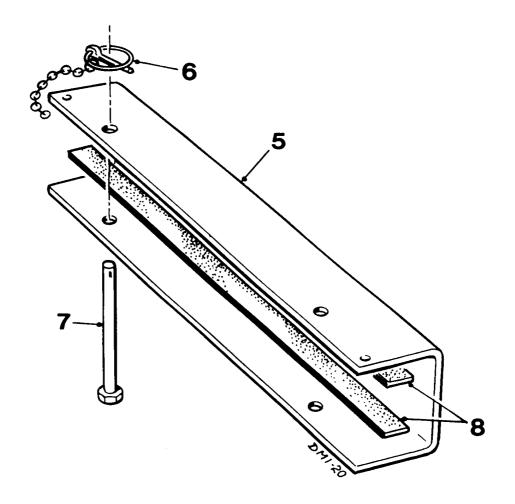
WARNING
DO NOT USE THIS EQUIPMENT
WITHOUT A ROPS FRAME UNLESS
A RISK ASSESSMENT IS CARRIED
OUT BY A COMPETENT PERSON
AS REQUIRED BY THE PUWER

V200531

DECALS & PLATES J - 3

Item	Part no	Serial no	Description	Qty
1	V2004227		DECAL, Battery isolator	
2	V2004229		DECAL, Operators handbook	
3	V2004245		DECAL, No buckets, No forks	
4	V2004244		DECAL, Towbar loadings	
5	V2004282		DECAL, Hot surfaces	
6	V2004307		DECAL, Electrical hazard	
7	V2004288		DECAL, Starting handle	
8	V2004450		DECAL, Gradients	
9	V2004642		DECAL, Skip operation	
10	10541A30		DECAL, Max. payload 1130kgs	
11	10541A31		DECAL, Max. payload 1250kgs	
12	V2004137		DECAL, Ear defenders	
13	V2004744		DECAL, Eye protection	
14	V2004798		DECAL, Skip raised	
15	V2005126		DECAL, Heaped load	
16	V2005318		DECAL, ROPS risk assessment	





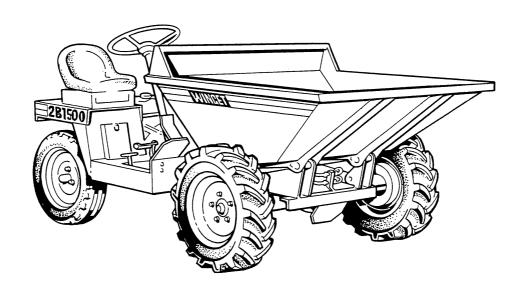
SPECIAL TOOLS J-10

Item	Part no	Serial no	Description	Qty
		R	otating Skip	
1	V2004359	Jan 95 /	SUPPORT, skip	1
2	V2004217		PIN	1
3	902S02		PIN, lynch c/w chain	1

### High Discharge Skip

5	V2004688	SUPPORT, skip,	1
6	902S02	PIN, lynch c/w chain	2
7	V2004217	PIN	2
8	106209000	SEAL, strip, (2 meters)	1

# 2B1000 & 2B1500 DUMPERS



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191906000	F - 10
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208561000	F - 9
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513358600	A - 1B
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100S03	H - 1A
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100S03	H - 6
100\$04	B - 8B
100\$04	H - 1
100S04	H - 1B
100\$04	H - 2
100S06	H - 1
100\$06	H - 2
100S08	H - 1
10190A01	H - 1
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10362A06	E - 5
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10S08         C - 4         11S03B         A - 1C         11S04E         A - 1E           10S73         D - 3         11S03B         F - 7         11S04E         H - 1           10S73         D - 4         11S03B         F - 10         11S04F         A - 1E           10S73         D - 4A         11S03B         H - 1         11S04G         A - 1E           11031A03         E - 5         11S03C         A - 1A         11S05C         A - 1E           11036A01         E - 1         11S03C         A - 1C         11S05D         F - 7           11040A01         H - 1         11S03C         A - 1C         11S05E         A - 1F           11040A02         H - 1         11S03C         A - 1D         11S05E         A - 2           11040A03         H - 1         11S03C         A - 2         11S05E         A - 3           11046A01         H - 1         11S03C         B - 8         11S05E         A - 4           119S08         H - 1         11S03C         F - 10         11S05E         A - 5           119S08         H - 1B         11S03C         F - 10         11S05F         A - 4           119S08         H - 2         11S03E         F - 10 <td>10S06</td> <td>B - 9A</td> <td>11S03AA</td> <td>H - 1B</td> <td>11S04E</td> <td>A - 1</td>	10S06	B - 9A	11S03AA	H - 1B	11S04E	A - 1
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	119S08	H - 1B	11S03C	F - 10	11S05F	A - 4
110S10 H 2 11S03E H 1A 11S05C A 1E	119S08	H - 2	11S03E	F - 10	11S05F	F - 10
119010 H-Z 11903E H-1A 11903G A-1E	119S10	H - 2	11S03E	H - 1A	11S050	A - 1E
119S13 H - 1 11S03J E - 5 11S05H A - 1F	119S13	H - 1	11S03J	E - 5	11S05F	A - 1F
119S13 H - 1 11S04 A - 1 11S06G A - 1A	119S13	H - 1	11S04	A - 1	11S060	A - 1A
11S01A F - 7 11S04A F - 6 11S06G A - 2	11S01A	F - 7	11S04A	F - 6	11S060	A - 2
11S01A F - 11 11S04C A - 1 11S06K B - 9	11S01A	F - 11	11S04C	A - 1	11S06k	B - 9
11S01AA F - 11 11S04C A - 1A 11S11A F - 7	11S01AA	F - 11	11S04C	A - 1A	11S11 <i>A</i>	F - 7
11S01B F - 7 11S04C A - 1B 122S03 H - 1A	11S01B	F - 7	11S04C	A - 1B	122S03	H - 1A
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11S02B A - 4 11S04C D - 2 127S03 H - 4	11S02B	A - 4	11S04C	D - 2	127\$03	H - 4
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12S01	F - 6	13S02	C - 1	17S04	A - 1C
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12S02	F - 1	153S05	F - 11	17S04	A - 2
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12S02	F - 3	153S07	F - 8	17S04	D - 3
12S02	F - 4	156S06	H - 1	17S04	D - 4
12S02	F - 6	163S02	C - 5	17S04	D - 4A
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12S02	H - 1	16S05B	F - 10	17S04	F - 7
12S05	F - 6	16S08C	A - 1C	17S04	F - 10
12S05	H - 1	176S01	A - 3	17S04	F - 10
12S19	D - 1	176S01	A - 4	17S04	F - 10
12S19	F - 3	176S01	A - 5	17S04	F - 10
12S19	F - 4	176S01	B - 9	17S04	F - 10
12S22	D - 1	176S01	B - 9	17S04	F - 11
131S01	A - 3	176S01	C - 1	17S04	H - 1
131S01	A - 4	176S01	C - 2	17S04	H - 1A
131S01	A - 4	176S01	C - 2A	17S04	H - 1B
131S01	A - 5	176S01	C - 4	17S04	H - 4
131S01	B - 9	176S01	C - 5	17S05	A - 1
131S01	C - 1	176S01	D - 1	17S05	A - 1
131S01	C - 4	176S01	D - 2B	17S05	A - 1
131S01	D - 1	176S01	E - 5	17S05	A - 1
131S01	D - 2B	176S01	H - 1A	17S05	A - 1
131S01	E - 5	177S03	A - 1B	17S05	A - 1
131S01	H - 1A	178SPS04C	F - 9	17S05	A - 1A
131S02	B - 9	17S02	F - 7	17S05	A - 1B
131S02	B - 9	17S02	F - 7	17S05	A - 1E
131S02	H - 1A	17S02	F - 10	17S05	A - 4
131S03	A - 3	17S02	F - 11	17S05	D - 1
131S03	A - 4	17S02	F - 11	17S05	D - 2
131S03	A - 4	17S03	A - 4	17S05	D - 2B
131S03	A - 5	17S03	E - 5	17S05	E - 3
131S03	C - 4	17S03	F - 1	17S05	E - 5
131S03	D - 1	17S03	F - 5	17S05	H - 1

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17S06	A - 2	20158A03	B - 1	20298A0116	D - 6
17S06	A - 3	20161A05	B - 9	20298A0117	D - 6
17S06	A - 4	202082A04	D - 2	20298A0118	D - 6
17S06	F - 7	20208A01	D - 2	20298A0119	D - 6
17S06	F - 10	20208A0101	D - 1	20298A0120	D - 6
17S08	A - 1A	20208A0101	D - 2	20298A0121	D - 6
17S08	A - 2	20208A0102	D - 1	20298A0122	D - 6
17S08	B - 9A	20208A0102	D - 2	20298A0123	D - 6
17S08	B - 9B	20231A03	E - 5	20298A0124	D - 6
17S10	F - 10	20232A02	D - 2B	20307A04	E - 1
17S11	A - 1A	20247A02	E - 3	20307A07	E - 1
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181S04	E - 3	20273A02	D - 2	20313A06	F - 5
182S20	D - 3	20282A03	A - 1	20313A06	F - 9
185S05D4	B - 9	20282A07	D - 2	20318A01	F - 6
185S05D4	E - 1	20282A08	D - 2	20318A01	F - 8
186S14	H - 1	20282A11	D - 2	20318A01	F - 11
187S08JJ	A - 4	20286A02	A - 2	20321A02	A - 1
191S06	E - 3	20286A07	A - 2	20321A04	A - 1
192S01	A - 4	20286A10	A - 2	20321A0401	A - 1
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20102A02	D - 4	20298A0107	D - 6	20354A03	E - 1
20102A02	D - 4A	20298A0108	D - 6	20354A03	E - 1
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20105A14	F - 6	20298A0111	D - 6	20355A04	A - 1
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20105A15	F - 10	20298A0113	D - 6	21S02	B - 1

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22S09	B - 1	267S06	A - 5	28S03E	C - 2A
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23S01	B - 1	267S06	D - 2	28S05E	C - 2
23S02	B - 1	267S07	A - 1E	28S05E	C - 2A
23S03	B - 1	267S07	A - 1F	298S03	D - 4A
23S22	B - 1	267S07	A - 2	2S02	E - 5
247S09	A - 2	267S07	A - 3	2ST121	H - 1
24S19	B - 1	267S07	A - 4	2ST123	H - 1
24S20	B - 1	267S07	A - 4	30039A0169	C - 1
24S37	B - 1	267S07	A - 5	30080A0303	A - 1B
24S39	B - 1	267S07	F - 10	30082A0221	B - 8
24S57	B - 1	267S07	F - 10	30082A0222	B - 8C
24S58	B - 1	267S09	A - 1A	30082A0231	B - 8
267S03	F - 9	267S09	A - 2	30082A0231	B - 8A
267S04	A - 1B	267S09	B - 7	30082A0232	B - 8
267S04	A - 4	267S12	A - 1A	30082A0232	B - 8A
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267S05	A - 1D	28S01C	C - 2A	30082A0242	B - 8A
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267S05	H - 1B	28S02C	B - 9B	30082A0273	B - 8A
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267S06	A - 3	28S03D	D - 2	30082A0284	B - 8A

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7S02	F - 5	7S04	H - 2	88S06E	C - 2
7S02	F - 8	7S04	H - 4	88S06E	C - 2A
7S03	A - 1A	7S05	A - 1E	88S16F	C - 1
7S03	A - 1C	7S05	A - 4	88S16F	C - 2
7S03	A - 1C	<b>7</b> \$05	F - 7	88S16F	C - 2A
7S03	A - 2	<b>7</b> \$05	F - 10	89S02	C - 1
7S03	D - 3	7S08	A - 1A	89S02	C - 2A
7S03	D - 4	<b>7</b> S09	F - 7	8S01F	F - 9
7S03	D - 4A	<b>7</b> S09	F - 10	8S02J	F - 3
7S03	D - 6	81S02	H - 3	8S02J	F - 4
7S03	E - 5	82S03C	D - 3	8S03B	C - 3
7S03	F - 10	82S03C	F - 6	8S03B	D - 3
7S03	F - 10	82S03C	F - 6	8S03C	D - 4
7S03	F - 10	82S03C	F - 8	8S03C	D - 4A
7S03	F - 10	82S03E	D - 4	8S03H	A - 1F
7S03	F - 11	82S03E	D - 4A	8S03H	H - 4
7S03	H - 1A	82S03E	F - 6	8S04B	B - 8A
7S03	H - 4	82S03E	F - 6	8S04B	B - 8B
7S04	A - 1	82S03E	F - 8	8S04B	B - 8C
7S04	A - 1	82S07E	F - 6	8S04C	B - 9
7S04	A - 1	82S07E	F - 8	8S04C	D - 2B
7S04	A - 1	82S07E	F - 8	8S04C	E - 5
7S04	A - 1	83S03	F - 6	8S04J	H - 2
7S04	A - 1	83S03	F - 8	8S05E	A - 3
7S04	A - 1A	85S01	D - 3	8S06G	B - 7
7S04	A - 1B	85S01	D - 4	8S06R	A - 2
7S04	A - 1E	85S01	D - 4A	8S07K	A - 4
7S04	A - 4	85S01	F - 6	901S02	H - 1
7S04	B - 8	85S01	F - 6	902S02	A - 4

902S02 K - 1 C173D E - 5 V2000326 F - 11 92S07 B - 9 C174C D - 1 V2000757 E - 2 95S03 C - 1 C174E D - 1 V2000758 E - 2 95S03 C - 2 C174L D - 1 V2000758 E - 2 95S03 C - 2 C174L D - 1 V2000758 E - 2 95S03 C - 2 C174L D - 1 V2000759 E - 2 95S03 C - 2 C174L D - 1 V2000760 E - 2 95S03 D - 1 C174J D - 3 V2000954 A - 1 95S03 D - 3 C174J D - 4 V2000954 A - 1 95S03 D - 4 C174J D - 4 V2000954 A - 1 95S03 D - 4 C174J D - 4 V2000954 A - 1 95S03 D - 4 C174J D - 4 V2000954 A - 1 95S03 D - 4 C175 B - 9 V2002350 B - 98 95S03 D - 4 C175 B - 9 V2002350 B - 98 9S01 A - 1B C180A B - 9 V2002350 B - 98 9S01 C - 1 C180B A - 1 V2002991 D - 4 9S01 C - 2 C180B B - 9 V2003029 D - 4 9S01 C - 2 C180B B - 9 V2003029 D - 4 9S01 D - 1 C186-A B - 9 V2003029 D - 4 9S02 D - 1 C186-A B - 9 V2003030 D - 4 9S02 D - 1 C186-B B - 9 V2003037 J - 1 9S02 D - 2A C186-C B - 9 V2003038 J - 1 9S03 C - 2 C186-C B - 9 V2003039 J - 1 9S05 B - 9A C186-C B - 9 V2003101 J - 1 9S05 B - 9B C190 B - 9 V2003111 F - 9 8A25328 F - 6 C272 D - 1 V2003111 F - 9 8A25328 F - 6 C272 D - 1 V2003111 F - 9 8A25328 F - 6 C272 D - 1 V2003111 F - 9 8A25328 F - 6 C272 D - 1 V2003111 H - 3 8A5E159 H - 1 C321 C - 3 V2003113 H - 3 8A5E159 H - 1 CSE200 F - 6 V2003114 H - 3 C1400A A - 2 DM157 J - 1 V2003115 H - 3 C159LH B - 9 DM197 J - 2 V2003119 H - 3 C159RH B - 9 L259LH E - 1 V2003119 H - 3 C160B E - 5 L264 B - 9 V2003122 H - 3 C173B A - 4 L308T B - 9 V2003122 H - 3 C173B A - 4 L308T B - 9 V2003123 F - 7	Part no	Page no	Part no	Page no		Part no	Page no
92S07         B - 9         C174C         D - 1         V2000398         H - 2           95S03         C - 1         C174E         D - 1         V2000757         E - 2           95S03         C - 2         C174E         D - 1         V2000758         E - 2           95S03         C - 2A         C174J         C - 4         V2000759         E - 2           95S03         D - 1         C174J         D - 1         V2000769         E - 2           95S03         D - 1         C174J         D - 3         V2000954         A - 1           95S03         D - 4         C174J         D - 4         V2000954         A - 1C           95S03         D - 4         C174J         D - 4A         V2000954         A - 1C           95S03         D - 4         C174J         D - 4A         V2000954         A - 1D           95S03         D - 4A         C175         B - 9         V2002350         B - 9A           95S01         C - 1         C175         B - 9         V2002350         B - 9B           9S01         A - 1B         C180A         B - 9         V2003029         D - 4           9S01         C - 2         C180B         A - 1         V2003		. ugoo			<u>İ</u> l		
95S03         C - 1         C174E         D - 1         V2000757         E - 2           95S03         C - 2         C174E         D - 1         V2000758         E - 2           95S03         C - 2A         C174J         C - 4         V2000759         E - 2           95S03         C - 4         C174J         D - 1         V2000760         E - 2           95S03         D - 1         C174J         D - 3         V2000954         A - 1           95S03         D - 3         C174J         D - 4         V2000954         A - 1C           95S03         D - 4         C174J         D - 4A         V2000954         A - 1D           95S03         D - 4         C174J         D - 4A         V2000954         A - 1D           95S03         D - 4         C175         B - 9         V2002350         B - 9A           95S05         F - 10         C175         B - 9         V2002350         B - 9B           9801         A - 1B         C180A         B - 9         V2002329         D - 4           9S01         C - 2         C180B         A - 1         V2003029         D - 4           9S01         C - 2         C180B         B - 9         V20030	902S02	K - 1	C173D	E - 5		V2000326	F - 11
95S03         C - 2         C174E         D - 1         V2000758         E - 2           95S03         C - 2A         C174J         C - 4         V2000759         E - 2           95S03         C - 4         C174J         D - 1         V2000760         E - 2           95S03         D - 1         C174J         D - 3         V2000954         A - 1           95S03         D - 3         C174J         D - 4         V2000954         A - 1C           95S03         D - 4         C174J         D - 4A         V2000954         A - 1D           95S03         D - 4A         C175         B - 9         V2002350         B - 9A           95S05         F - 10         C175         B - 9         V2002350         B - 9A           9S01         A - 1B         C180A         B - 9         V2002350         B - 9A           9S01         C - 1         C180B         A - 1         V2002991         D - 4           9S01         C - 2         C180B         B - 9         V2003029         D - 4           9S01         C - 2         C180B         B - 9         V2003029         D - 4A           9S01         C - 2A         C180B         B - 9         V20030	92S07	B - 9	C174C	D - 1	•	V2000398	H - 2
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95S03         D - 1         C174J         D - 3         V2000954         A - 1           95S03         D - 3         C174J         D - 4         V2000954         A - 1C           95S03         D - 4A         C175J         D - 4A         V2000954         A - 1D           95S03         D - 4A         C175B         B - 9         V2002350         B - 9A           95S05         F - 10         C175B         B - 9         V2002350         B - 9B           9S01         A - 1B         C180A         B - 9         V2002991         D - 4           9S01         C - 1         C180B         A - 1         V2002991         D - 4           9S01         C - 2         C180B         B - 9         V2003029         D - 4A           9S01         C - 2A         C180B         B - 9         V2003029         D - 4A           9S01         C - 2A         C180B         B - 9         V2003030         D - 4A           9S02         D - 1         C186-B         B - 9         V2003030         D - 4A           9S02         D - 1         C186-B         B - 9         V2003030         D - 4A           9S03         C - 2         C186-C         B - 9	95S03	C - 2A	C174J	C - 4		V2000759	E - 2
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95S03         D - 4         C174J         D - 4A         V2000954         A - 1D           95S03         D - 4A         C175         B - 9         V2002350         B - 9A           95S05         F - 10         C175         B - 9         V2002350         B - 9B           9S01         A - 1B         C180A         B - 9         V2002991         D - 4           9S01         C - 1         C180B         A - 1         V2002991         D - 4           9S01         C - 2         C180B         B - 9         V2003029         D - 4A           9S01         C - 2A         C180B         D - 1         V2003029         D - 4A           9S01         D - 1         C1866         B - 9         V2003029         D - 4A           9S01         D - 1         C1866         B - 9         V2003029         D - 4A           9S02         D - 1         C186-A         B - 9         V2003030         D - 4A           9S02         D - 1         C186-B         B - 9         V2003037         J - 1           9S03         C - 2         C186-B         B - 9         V2003039         J - 1           9S05         B - 9A         C186-E         B - 9         V2003	95S03	D - 1	C174J	D - 3	•	V2000954	A - 1
95S03         D - 4A         C175         B - 9         V2002350         B - 9A           95S05         F - 10         C175         B - 9         V2002350         B - 9B           9S01         A - 1B         C180A         B - 9         V2002991         D - 4           9S01         C - 1         C180B         A - 1         V2002991         D - 4           9S01         C - 2         C180B         B - 9         V2003029         D - 4A           9S01         C - 2A         C180B         D - 1         V2003029         D - 4A           9S01         D - 1         C186         B - 9         V2003030         D - 4A           9S01         D - 1         C186         B - 9         V2003030         D - 4A           9S02         D - 1         C186-A         B - 9         V2003030         D - 4A           9S02         D - 1         C186-B         B - 9         V2003033         D - 4A           9S03         C - 2         C186-B         B - 9         V2003033         J - 1           9S03         H - 2         C186-C         B - 9         V2003033         J - 1           9S05         B - 9A         C186-E         B - 9         V200310<	95S03	D - 3	C174J	D - 4	•	V2000954	A - 1C
95S05         F - 10         C175         B - 9         V2002350         B - 9B           9S01         A - 1B         C180A         B - 9         V2002991         D - 4           9S01         C - 1         C180B         A - 1         V2002991         D - 4           9S01         C - 2         C180B         B - 9         V2003029         D - 4           9S01         C - 2A         C180B         D - 1         V2003029         D - 4A           9S01         D - 1         C186         B - 9         V2003030         D - 4A           9S02         D - 1         C186-A         B - 9         V2003030         D - 4A           9S02         D - 1         C186-B         B - 9         V2003030         D - 4A           9S02         D - 1         C186-B         B - 9         V2003037         J - 1           9S03         C - 2         C186-C         B - 9         V2003038         J - 1           9S03         C - 2         C186-B         B - 9         V2003100         J - 1           9S05         B - 9A         C186-F         B - 9         V2003101         J - 1           9S05         B - 9B         C190         B - 9         V2003111 </td <td>95S03</td> <td>D - 4</td> <td>C174J</td> <td>D - 4A</td> <td>•</td> <td>V2000954</td> <td>A - 1D</td>	95S03	D - 4	C174J	D - 4A	•	V2000954	A - 1D
9S01         A - 1B         C180A         B - 9         V2002991         D - 4           9S01         C - 1         C180B         A - 1         V2002991         D - 4A           9S01         C - 2         C180B         B - 9         V2003029         D - 4A           9S01         C - 2A         C180B         D - 1         V2003029         D - 4A           9S01         D - 1         C186         B - 9         V2003030         D - 4A           9S02         D - 1         C186-A         B - 9         V2003030         D - 4A           9S02         D - 1         C186-B         B - 9         V2003030         D - 4A           9S02         D - 1         C186-B         B - 9         V2003030         D - 4A           9S02         D - 1         C186-B         B - 9         V2003030         D - 4A           9S03         C - 2         C186-C         B - 9         V2003033         J - 1           9S03         H - 2         C186-E         B - 9         V2003100         J - 1           9S05         B - 9A         C186-F         B - 9         V2003110         J - 1           9S05         B - 9B         C190         B - 9         V200311	95S03	D - 4A	C175	B - 9	•	V2002350	B - 9A
9S01         C - 1         C180B         A - 1         V2002991         D - 4A           9S01         C - 2         C180B         B - 9         V2003029         D - 4           9S01         C - 2A         C180B         D - 1         V2003029         D - 4A           9S01         D - 1         C186         B - 9         V2003030         D - 4A           9S02         D - 1         C186-A         B - 9         V2003030         D - 4A           9S02         D - 1         C186-B         B - 9         V2003030         D - 4A           9S02         D - 2A         C186-C         B - 9         V2003033         J - 1           9S03         C - 2         C186-D         B - 9         V2003033         J - 1           9S03         H - 2         C186-E         B - 9         V2003100         J - 1           9S05         B - 9A         C186-F         B - 9         V2003100         J - 1           9S05         B - 9B         C190         B - 9         V2003111         F - 9           A25328         F - 6         C272         D - 1         V2003111         F - 10           ASE154         H - 1         C321         C - 3         V2003113	95S05	F - 10	C175	B - 9	•	V2002350	B - 9B
9S01         C - 2         C180B         B - 9         V2003029         D - 4           9S01         C - 2A         C180B         D - 1         V2003029         D - 4A           9S01         D - 1         C186         B - 9         V2003030         D - 4A           9S02         D - 1         C186-A         B - 9         V2003030         D - 4A           9S02         D - 1         C186-B         B - 9         V2003037         J - 1           9S02         D - 2A         C186-C         B - 9         V2003038         J - 1           9S03         C - 2         C186-D         B - 9         V2003039         J - 1           9S03         H - 2         C186-E         B - 9         V2003100         J - 1           9S05         B - 9A         C186-F         B - 9         V2003101         J - 1           9S05         B - 9B         C190         B - 9         V2003111         F - 9           A25328         F - 6         C272         D - 1         V2003111         F - 10           ASE154         H - 1         C321         C - 3         V2003113         H - 3           C140A         A - 2         DM157         J - 1         V2003115<	9S01	A - 1B	C180A	B - 9	•	V2002991	D - 4
9S01         C - 2A         C180B         D - 1         V2003029         D - 4A           9S01         D - 1         C186         B - 9         V2003030         D - 4           9S02         D - 1         C186-A         B - 9         V2003030         D - 4A           9S02         D - 1         C186-B         B - 9         V2003037         J - 1           9S02         D - 2A         C186-C         B - 9         V2003038         J - 1           9S03         C - 2         C186-D         B - 9         V2003039         J - 1           9S03         H - 2         C186-E         B - 9         V2003100         J - 1           9S05         B - 9A         C186-F         B - 9         V2003101         J - 1           9S05         B - 9B         C190         B - 9         V2003111         F - 9           A25328         F - 6         C272         D - 1         V2003111         F - 10           ASE154         H - 1         C321         C - 3         V2003113         H - 3           C140A         A - 2         DM157         J - 1         V2003114         H - 3           C159LH         B - 9         DM197         J - 2         V2003117	9S01	C - 1	C180B	A - 1		V2002991	D - 4A
9S01         D - 1         C186         B - 9         V2003030         D - 4           9S02         D - 1         C186-A         B - 9         V2003030         D - 4A           9S02         D - 1         C186-B         B - 9         V2003037         J - 1           9S02         D - 2A         C186-C         B - 9         V2003038         J - 1           9S03         C - 2         C186-D         B - 9         V2003039         J - 1           9S03         H - 2         C186-E         B - 9         V2003100         J - 1           9S05         B - 9A         C186-F         B - 9         V2003101         J - 1           9S05         B - 9B         C190         B - 9         V2003101         J - 1           9S05         B - 9B         C190         B - 9         V2003111         F - 9           A25328         F - 6         C272         D - 1         V2003111         F - 10           ASE154         H - 1         C321         C - 3         V2003113         H - 3           C140A         A - 2         DM157         J - 1         V2003115         H - 3           C159RH         B - 9         DM197         J - 2         V2003118 </td <td>9S01</td> <td>C - 2</td> <td>C180B</td> <td>B - 9</td> <td></td> <td>V2003029</td> <td>D - 4</td>	9S01	C - 2	C180B	B - 9		V2003029	D - 4
9S02         D - 1         C186-A         B - 9         V2003030         D - 4A           9S02         D - 1         C186-B         B - 9         V2003037         J - 1           9S02         D - 2A         C186-C         B - 9         V2003038         J - 1           9S03         C - 2         C186-D         B - 9         V2003039         J - 1           9S03         H - 2         C186-E         B - 9         V2003100         J - 1           9S05         B - 9A         C186-F         B - 9         V2003101         J - 1           9S05         B - 9B         C190         B - 9         V2003111         F - 9           A25328         F - 6         C272         D - 1         V2003111         F - 10           ASE154         H - 1         C321         C - 3         V2003113         H - 3           C140A         A - 2         DM157         J - 1         V2003114         H - 3           C159LH         B - 9         DM197         J - 2         V2003117         H - 3           C159RH         B - 9         L259LH         E - 1         V2003119         H - 3           C160B         E - 5         L264         B - 9         V20031	9S01	C - 2A	C180B	D - 1		V2003029	D - 4A
9S02         D - 1         C186-B         B - 9         V2003037         J - 1           9S02         D - 2A         C186-C         B - 9         V2003038         J - 1           9S03         C - 2         C186-D         B - 9         V2003039         J - 1           9S03         H - 2         C186-E         B - 9         V2003100         J - 1           9S05         B - 9A         C186-F         B - 9         V2003101         J - 1           9S05         B - 9B         C190         B - 9         V2003101         J - 1           9S05         B - 9B         C190         B - 9         V2003111         F - 9           A25328         F - 6         C272         D - 1         V2003111         F - 9           A25328         F - 6         C272         D - 1         V2003113         H - 3           ASE154         H - 1         C321         C - 3         V2003113         H - 3           C140A         A - 2         DM157         J - 1         V2003115         H - 3           C159LH         B - 9         DM197         J - 2         V2003118         H - 3           C159RH         B - 9         L259LH         E - 1         V2003120	9S01	D - 1	C186	B - 9		V2003030	D - 4
9S02         D - 2A         C186-C         B - 9         V2003038         J - 1           9S03         C - 2         C186-D         B - 9         V2003039         J - 1           9S03         H - 2         C186-E         B - 9         V2003100         J - 1           9S05         B - 9A         C186-F         B - 9         V2003101         J - 1           9S05         B - 9B         C190         B - 9         V2003111         F - 9           A25328         F - 6         C272         D - 1         V2003111         F - 9           ASE154         H - 1         C321         C - 3         V2003113         H - 3           C140A         A - 2         DM157         J - 1         V2003114         H - 3           C159LH         B - 9         DM197         J - 2         V2003115         H - 3           C159RH         B - 9         L259LH         E - 1         V2003118         H - 3           C160B         E - 5         L264         B - 9         V2003120         H - 3           C173A         A - 2         L267LH         B - 9         V2003122         H - 3           C173B         A - 4         L279/1         A - 3         V20031	9S02	D - 1	C186-A	B - 9		V2003030	D - 4A
9S03         C - 2         C186-D         B - 9         V2003039         J - 1           9S03         H - 2         C186-E         B - 9         V2003100         J - 1           9S05         B - 9A         C186-F         B - 9         V2003101         J - 1           9S05         B - 9B         C190         B - 9         V2003111         F - 9           A25328         F - 6         C272         D - 1         V2003111         F - 10           ASE154         H - 1         C321         C - 3         V2003113         H - 3           ASE159         H - 1         CSE200         F - 6         V2003114         H - 3           C140A         A - 2         DM157         J - 1         V2003115         H - 3           C159LH         B - 9         DM197         J - 2         V2003117         H - 3           C159RH         B - 9         L259LH         E - 1         V2003118         H - 3           C163         E - 5         L264         B - 9         V2003120         H - 3           C173A         A - 2         L267LH         B - 9         V2003122         H - 3           C173B         A - 4         L267RH         B - 9         V2003	9S02	D - 1	C186-B	B - 9		V2003037	J - 1
9S03         H - 2         C186-E         B - 9         V2003100         J - 1           9S05         B - 9A         C186-F         B - 9         V2003101         J - 1           9S05         B - 9B         C190         B - 9         V2003111         F - 9           A25328         F - 6         C272         D - 1         V2003111         F - 10           ASE154         H - 1         C321         C - 3         V2003113         H - 3           ASE159         H - 1         CSE200         F - 6         V2003114         H - 3           C140A         A - 2         DM157         J - 1         V2003115         H - 3           C159LH         B - 9         DM197         J - 2         V2003117         H - 3           C159RH         B - 9         L259LH         E - 1         V2003118         H - 3           C160B         E - 5         L259RH         E - 1         V2003120         H - 3           C173A         A - 2         L267LH         B - 9         V2003122         H - 3           C173B         A - 4         L267RH         B - 9         V2003124         H - 2           C173B         A - 4         L308T         B - 9         V2	9S02	D - 2A	C186-C	B - 9		V2003038	J - 1
9S05         B - 9A         C186-F         B - 9         V2003101         J - 1           9S05         B - 9B         C190         B - 9         V2003111         F - 9           A25328         F - 6         C272         D - 1         V2003111         F - 10           ASE154         H - 1         C321         C - 3         V2003113         H - 3           ASE159         H - 1         CSE200         F - 6         V2003114         H - 3           C140A         A - 2         DM157         J - 1         V2003115         H - 3           C159LH         B - 9         DM197         J - 2         V2003117         H - 3           C159RH         B - 9         L259LH         E - 1         V2003118         H - 3           C160B         E - 5         L259RH         E - 1         V2003119         H - 3           C163         E - 5         L264         B - 9         V2003120         H - 3           C173A         A - 2         L267LH         B - 9         V2003122         H - 3           C173B         A - 4         L279/1         A - 3         V2003124         H - 2           C173B         A - 4         L308T         B - 9         V200	9S03	C - 2	C186-D	B - 9		V2003039	J - 1
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C173A         A - 2         L267LH         B - 9         V2003122         H - 3           C173B         A - 2         L267RH         B - 9         V2003122         H - 3           C173B         A - 4         L279/1         A - 3         V2003124         H - 2           C173B         A - 4         L308T         B - 9         V2003128         F - 8	C160B	E - 5	L259RH	E - 1		V2003119	H - 3
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C173B         A - 4         L308T         B - 9         V2003128         F - 8	C173B	A - 2	L267RH	B - 9		V2003122	H - 3
	C173B	A - 4	L279/1	A - 3		V2003124	H - 2
C173B C - 4 L309 D - 2 V2003130 F - 7	C173B	A - 4	L308T	B - 9		V2003128	F - 8
	C173B	C - 4	L309	D - 2		V2003130	F - 7
C173B D - 2B LB203 D - 5 V2003131 F - 7	C173B	D - 2B	LB203	D - 5		V2003131	F - 7
C173D         D - 2         V2000305         D - 4         V2003132         F - 7	C173D	D - 2	V2000305	D - 4		V2003132	F - 7

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V2003134	F - 7	V2003575	J - 2	V2004231	A - 1C
V2003135	F - 7	V2003598	J - 2	V2004234	A - 1A
V2003136	F - 7	V2003636	F - 10	V2004235	J - 1
V2003137	F - 7	V2003637	F - 10	V2004245	J - 3
V2003137	F - 7	V2003638	F - 10	V2004282	J - 3
V2003138	F - 7	V2003639	F - 10	V2004288	J - 3
V2003139	F - 7	V2003640	F - 11	V2004300	A - 1A
V2003140	F - 8	V2003641	F - 11	V2004307	J - 3
V2003142	J - 2	V2003642	F - 11	V2004359	K - 1
V2003144	F - 8	V2003644	F - 11	V2004392	H - 1
V2003144	F - 9	V2003646	F - 11	V2004392	H - 1
V2003144	F - 10	V2003647	F - 11	V2004450	J - 3
V2003145	F - 7	V2003651	F - 10	V2004472	J - 2
V2003146	F - 7	V2003652	F - 10	V2004642	J - 3
V2003147	F - 7	V2003654	A - 1C	V2004647	B - 9
V2003148	F - 7	V2003665	J - 2	V2004648	D - 3
V2003149	F - 7	V2003671	D - 3	V2004648	D - 4
V2003150	F - 7	V2003671	D - 4	V2004648	D - 4A
V2003151	F - 7	V2003671	D - 4A	V2004651	D - 3
V2003152	J - 2	V2003851	A - 4	V2004651	D - 4
V2003153	J - 2	V2004004	A - 4	V2004651	D - 4A
V2003158	F - 7	V2004043	F - 10	V2004652	J - 2
V2003158	F - 10	V2004055	A - 1B	V2004680	J - 1
V2003159	F - 7	V2004106	H - 4	V2004688	K - 1
V2003160	B - 9A	V2004120	A - 1B	V2004744	J - 3
V2003160	B - 9B	V2004137	J - 3	V2004754	A - 1F
V2003168	F - 10	V2004189	F - 9	V2004754	J - 1
V2003176	F - 11	V2004204	F - 9	V2004791	J - 1
V2003177	F - 11	V2004206	A - 1C	V2004798	J - 3
V2003203	A - 1C	V2004206	A - 1C	V2004926	A - 1F
V2003232	H - 1	V2004206	A - 1D	V2004946	A - 1E
V2003253	F - 10	V2004214	F - 9	V2005013	A - 1D
V2003510	F - 9	V2004217	K - 1	V2005013	A - 1E
V2003515	D - 4A	V2004220	F - 10	V2005030	A - 1F
V2003540	F - 9	V2004223	J - 2	V2005030	J - 1
V2003568	A - 1A	V2004225	J - 2	V2005126	J - 3
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V600059	H - 3
V600060	H - 3
V600061	H - 3
V600062	H - 3
V600063	H - 3
V600064	H - 3
V600065	H - 3
V600066	H - 3
V600068	H - 3
V600069	H - 3
V600159	H - 3
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V600178	H - 2
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V602630	H - 4
V602634	F - 9
V602635	F - 9
V602636	F - 9
V602747	A - 1E
V602748	A - 1E
V602749	A - 1D
V602749	A - 1E
V602750	A - 1D
V602751	A - 1D
V602752	A - 1D
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### **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