

# OPERATING INSTRUCTIONS & SPARE PARTS LIST

# FOUR A 40 DIESEL DUMPER (CAPACITY 40 CWT)

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# INTRODUCTION

This Parts & Operators Manual is a re-print of the manual last published in 1980 and contains some amended part numbers.

Health & Safety legislation and working practices applicable to Site Dumpers, both 2 and 4 wheel Drive, Rigid Chassis and Articulated Chassis have changed considerably in the years since this manual was last published and immediately following this Introduction are notes on the Safe Use of Site Dumpers. These notes supersede and replace all previous 'Dumper Safety' notes issued with Winget FOUR A 40 Four Wheel Drive Dumpers.

Reference is made on a number of pages to 'bolt c/w nut and washer', this no longer the case, fixings such as nuts, bolts, screws and washers should be ordered as individual items. A number of Whitworth and B.S.F fixings are now no longer available, in these cases the nearest metric equivalent size will be supplied.

The contents of this manual although correct at the time of publication, may be subject to alteration by the manufacturers without notice and Winget Limited can accept no responsibility for any errors or omissions contained within the following pages. Nor can we accept any liability whatsoever arising from the use of this manual howsoever caused.

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

### MACHINE MODIFICATIONS

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



parts. The Manufacturers accept no responsibility for any modifications made after the machine has left the factory, unless previously agreed by the Manufacturers in

writing; the Manufacturers will accept no liability for damage to property, personnel or the machine if failure is brought about due to such modifications, or fitment of spurious parts.

## TRAINING

WARNING Only trained operators should use this machine.



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

It is strongly recommended that operators read the H.S.E. publication "Safe Working with Small Dumpers" which is available from government bookshops (HMSO) or from other bookshops quoting the following number ISBN O11 8836935. Another useful publication is British Standard number BS 6264, "Procedure for Operator Training For Earth Moving Machinery" available from the British Standard Institution.

# **OPERATION**

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

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

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

ALWAYS check wheel nut tightness daily.

NEVER carry passengers.

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

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

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

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

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

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

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

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

ALWAYS keep the floor plates and walkways clean.

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

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

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

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

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

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

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

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

## SKIPS AND LOADING

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



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

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

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

ALWAYS take extra care when tipping non free running loads.

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

# TOWING

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



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

ALWAYS use a purpose made towing pin.

NEVER tow loads up, down or across gradients.

# GRADIENTS

WARNING NEVER operate Four Wheel Drive articulated steer dumpers on any gradients



which exceed 25% (1 in 4), or across gradients which exceed 16% (1 in 6).

*NEVER* operate *Two Wheel Drive rigid chassis dumpers* on any gradients which exceed 10% (1 in 10), or across gradients which exceed 10% (1 in 10).

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

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

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

ALWAYS drive forwards up gradients when loaded.

ALWAYS reverse down gradients when loaded.

ALWAYS keep the load facing uphill.

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

NEVER attempt to turn on a gradient.

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.

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# SERVICING

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

ALWAYS conform to service schedules except where:

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

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

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

ALWAYS dump pressure from the hydraulic system before carrying out any kind of maintenance or adjustment. (see Hydraulics Warnings).

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

### PREPARATION FOR USE

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

#### ENGINE

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

#### GEARBOX

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

#### DRIVE AXLES AND TRANSFER CASE

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

#### FUEL TANK

Fill tank with diesel oil until approximately 1" from the top. NOTE: Never allow fuel level to fall below 2" deep in the bottom of the tank.

#### HYDRAULIC TANK

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

#### BRAKE SYSTEM

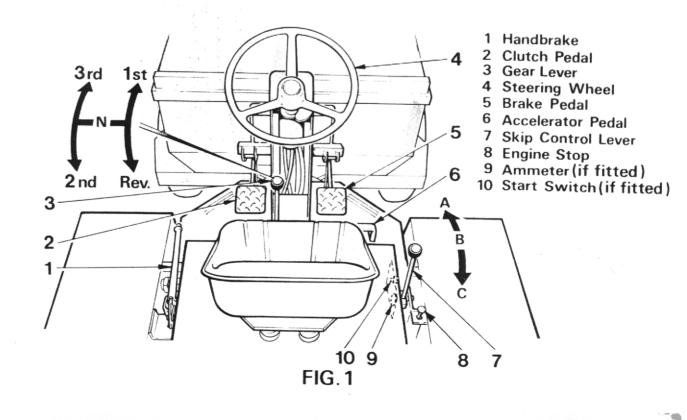
Ensure that the fittings are tight on both hoses supplying the brake master cylinder from the main hydraulic tank.

#### MISCELLANEOUS

Check all wheel nuts for tightness.

Check all nuts and bolts for tightness, loose nuts and bolts may lead to damage not covered by Warranty.

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

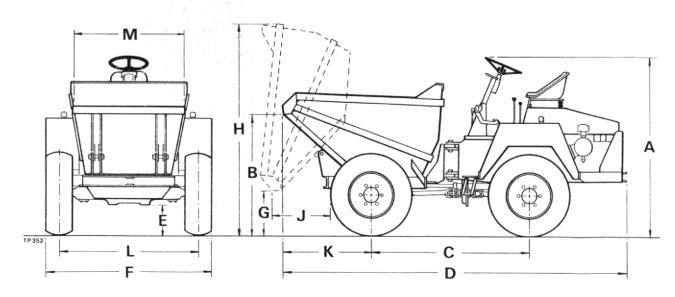


## SPECIFICATION FOR MACHINES WITH FORWARD TIP SKIP

A Overall Heig	ght	1965	5 mm (6'5½'')
B: Skip Loading	g Height	1343	8 mm (4'5")
C Wheelbase		1790	) mm $(5'10^{1}_{2}'')$
D Overall Leng	gth	3535	うmm (11'7支'')
E Ground Clear	rançe	320	) mm (1'0.5/8")
F Overall Wid		1680	
G Skip Ground	Clearance when	Tipped 526	omm (1'8耄'')
H Overall Hei		2198	3 mm (7'2½")
	orward of Tyre	576	mm (1'10.5/8")
K Overhang			) mm (2'11.7/8")
L Wheeltrack		1390	
M Prow Width		1310	) mm (4'3.5/8")
Skip		Tur	rning Circle 7450 mm (24'5毳'')
Water Level	$0.96 m_2^3$ (34)		aden Weight 1880 Kgs (4144 lbs.
Struck Level			raulic Relief Valve 123 Kg/cm <sup>2</sup> (1750 psi)
Heaped Level	1.5 m <sup>2</sup> (53		r Axle Articulation 300 mm (0.11 <sup>3</sup> ")
Maximum Payload	2030 Kgs (448	0 1bs.) Tan	nk Capacities
Oil Capacities		Hyd	raulic 45.5 Litres (10 galls.)
Transfer Box	.85 Ltrs.	(1 <sup>1</sup> <sub>2</sub> pts.) Die	esel . 45.5 Litres (10 galls.)
Gearbox	.85 Ltrs.	(1½pts.) Tyr	e Pressure 35 p.s.i.
Drive Axle (News	age) 4.6 Ltrs.	(8 pts.)	
Engine Lister			
Engine Petter	6.8 Ltrs.	(12 pts.)	Engine Specification
Road Speeds		Peti	ter PH2 S & E Specification Schedule 1079
Pet	ter List		(Hand Start)
	k.p.h. m.p.h.		ter PH2 S & E Specification Schedule 1083
1st 2.4		(4.5)	(Elect. Start)
2nd 5.7			ter ST2 S & E Specification Schedule 1081
	(16.9) 11.9	(19.2)	(Hand Start)

(16.9)11.9 3rd 10.5 Rev .... 2.7 (4.4)3.0

(19.2) (Hand Start) (5.0) Lister ST2 S & E Specification Schedule 1082 (Elect. Start)



FOUT A 40:

FIG. 2

RECOMMENDED LUBRICATING OILS

Ő	COMPANY	ENGINE	NEWAGE DRIVE AXLE	HAMWORTHY DRIVE AXLE	TRANSFER BOX	GEARBOX	WHEEL BEARINGS & OTHER GREASE POINTS	HYDRAULIC SYSTEM
(n.k.)	SUMMER	ESSOLUBE HDX 20W		IL 2082	GEAR OIL GP 85W/140	ESSOLUBE HDX 30	BEACON 2	NUT0 H32
ESSO (Overseas)	A 9,0 8	ESSOLUBE HDX 30 ESSOLUBE HDX 20W ESSOLUBE HDX 10W	TORQUE FLUID 62	IL 2082 IL 2082	GEAR OIL GP 85W/140 GEAR OIL GP 85W/140 GEAR OIL GP 80W	ESSOLUBE HDX 30	BEACON 2	NUTO H68 NUTO H32 NUTO H22
(U.K.)	SUMMER	DEUSOL CRI 20	AGRICASTROL AS	AGRICASTROL AS	DEUSOL EP 90	DEUSOL CRI 30	CASTROL SPHEEROL APT 2	
CASTRUL (Overseas)	ABOVE 32°C 0°C - 32°C BELOW 0°C	DEUSOL CRI 30 DEUSOL CRI 20 DEUSOL CRI 10	AGRICASTROL AS SPECIAL	AGRICASTROL AS AGRICASTROL MD	DEUSOL GEAR EP 140 DEUSOL GEAR EP 90 DEUSOL GEAR EP 80	DEUSOL CRI 30	CASTROL SPHEEROL APT 2	CASTROL HYSPIN AWS 32
(n.k.)	SUMMER	ROTELLA SX OIL 20/20W		DONAX T12 (INITIAL FILL) SPIRAX EP 80 (Top up only)	SPIRAX 90 EP	ROTELLA SX OIL 30	RETINAX A	
SHELL (Overseas)	ABOVE 32°C 0°C - 32°C BELOW 0°C	ROTELLA SX OIL 30 ROTELLA SX OIL 20/20W ROTELLA SX OIL 10W		DONAX T12 (INITIAL FILL) SPIRAX EP 80 (Top up only) S.7224 (INITIAL FILL) SPIRAX HD 75 (Top up only)	SPIRAX 140 EP SPIRAX 90 EP SPIRAX 80 EP	ROTELLA SX OIL 30	RETINAX A	TELLUS OIL 37
(U.K.)	SUMMER	VANELLUS M20W		B.P. HYDRAULIC TF-8	GEAR OIL SAE 90 EP	VANELLUS M30	ENERGREASE L2	
Br (Overseas)	ABOVE 32°C 0°C - 32°C BELOW 0°C	VANELLUS M30 VANELLUS M20W VANELLUS M10W		B.P. HYDRAULIC TF-8 B.P. TRACTRAN (Top up only)	GEAR OIL SAE 140 EP GEAR OIL SAE 90 EP GEAR OIL SAE 80 EP	VANELLUS M30	ENERGREASE L2	ENERGOL HLP 65
(U.K.)	SUMMER	DELVAC 1220		MOBIL FLUID 422	MOBILUBE HD 90 MOBILUBE GX 90	DELVAC 1230		
MOBIL	ABOVE 32°C	DELVAC 1230			MOBILUBE HD 140 MOBILUBE GX 140		MOBILGREASE MP	DTE 24
	0°C – 32°C	DELVAC 1220	MOBILFLUID 422	MOBIL FLUID 422	MOBILUBE HD 90 MOBILUBE GX 90		MOBILGREASE	
(Overseas) ALL TEMP	(Overseas) BELOW 0°C ALL TEMPERATURES	DELVAC 1210 DELVAC SPECIAL 10W-30		MOBIL FLUID 427	MOBILUBE HD 80 MOBILUBE GX 80	DELVAC 1230		
(U.K.)	SUMMER	CENTURY ROIL 20W 20		CENTLUBE F.76 COMPOUND	CENTURY EP 90	CENTURY ROIL 30	REGULUS A2	CENTURY PWL A HYD. OIL
WALKERS CENTURY (Overseas)	WALKERS CENTURY ABOVE 32°C 0°C - 32°C (Overseas) BELOW 0°C	CENTURY ROLL 30 CENTURY ROLL 20W 20 CENTURY ROLL 10W		CENTLUBE F.76 COMPOUND CENTLUBE E.76 COMPOUND	CENTURY EP 140 CENTURY EP 90 CENTURY EP 80	CENTURY ROLL 30	REGULUS A2	CENTURY PWL A HYD. OIL
			IN THE UNLIKELY EQUIVALENT OILS SU	IN THE UNLIKELY EVENT OF THE ABOVE OILS NOT BEING AVAILABLE EQUIVALENT OILS SUPPLIED BY A REPUTABLE MANUFACTURER MAY BE USED	S NOT BEING AVAILAB ANUFACTURER MAY B	ie used		

\*Four A 40; Four A 50; Four A 30

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#### ELECTRIC STARTING MACHINES STARTING

- 1. Check that the Engine Stop Control knob is fully down.
- 2. Insert the ignition key in the isolating switch and turn clockwise.
- 3. Turn key further clockwise against spring load. DO NOT operate starter motor for more than 20 seconds at a time.
- 4. When engine is cold, "overload" may be required to facilitate starting and is set and returned to normal position as described in "Manual Starting" - see below.

#### STOPPING

Pull out stop control knob and hold fully out until engine stops. Release stop control knob when engine has ceased to turn. Turn key switch to OFF position.

## MANUAL STARTING MACHINES

# STARTING

# (LISTER)

1. Pull out overload lever (situated on R.H. side of engine, above speed control arm) and lift to its highest position.

(PETTER)

- 1. Lift red-painted overload stop situated on the fuel pump rack above and to the rear of the priming levers and move fuel pump rack into fully open position. Operate priming levers six times. NOTE: This is unnecessary if engine is already warm.
- 2. Lift decompression lever(s) (positioned on top of engine) and turn engine as fast as possible using starting handle. When engine is turning at a good speed, knock down decompression levers and engine should fire.
- 3. If engine does not fire, lift decompression levers and slowly crank engine a few times before attempting to start again. Where ambient temperature is - 15°C (5°F) or below, a cold starting aid should be fitted.
- 4. Set overload lever horizontal when engine starts. (LISTER)

#### STOPPING

Pull out stop control knob and hold fully out until engine stops. Release stop control knob when engine has ceased to turn.

#### IMPORTANT

- 1. DO NOT stop engine by means of decompression levers, this will lead to damaged valve seats and cylinder head joints.
- 2. DO NOT stop engine by closing fuel tap or by allowing fuel tank to run dry, this will allow air into fuel lines and necessitate bleeding and priming system.

# GEAR CHANGING - (FOUR A 50 & FOUR A 60)

The Dumper is fitted with a four speed gearbox with a Forward and Reverse Selector. Ensure the machine is brought to a standstill before changing direction of drive.

GEAR CHANGING - (FOUR A 30, FOUR A 30E, FOUR A 40, FOUR A 40E, FOUR A 50E & FOUR A 80) The Dumper is fitted with three Forward and one Reverse gear. When changing gear, the clutch pedal is used in the normal way.

# SKIP CONTROL LEVER (See Fig.1)

1. Control lever has three positions DUMP (A), HOLD (B) and RETURN (C).

2. Push lever forward to DUMP (A) to deposit load.

3. Pull lever back to RETURN (C) to return skip to carrying position.

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

#### ROTATING SKIP (IF FITTED)

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

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#### GENERAL MAINTENANCE

#### PERIODIC MAINTENANCE

- DAILY check engine oil level and fill to full mark on dipstick, if necessary.
- 2. DAILY fill fuel tank, or as often as proves necessary to approximately 1" of top. Never allow there to be a depth of less than 2" of fuel in tank.
- 3. DAILY check tyre pressures and condition of tyres (refer to specification page).
- WEEKLY check oil level in gearbox and fill to full mark on dipstick if necessary.
- 5. WEEKLY remove filler/level plugs from drive axles and transfer case. Oil level should be to bottom of holes. Top up, if necessary through filler/ level plugs.
- 6. WEEKLY check oil level in hydraulic tank. Always clean the surrounding area before removing cap to prevent possible entry of foreign matter. Fill tank, if necessary, to within 1" of top.
- 7. WEEKLY check that fittings are tight on feed pipe from hydraulic tank to master cylinder. Check for leaks.
- 8. WEEKLY apply grease to all grease nipples.
- 9. WEEKLY check all wheel nuts and tighten if necessary.
- 10. WEEKLY check all nuts and bolts and tighten if necessary.
- 11. EVERY SIX MONTHS repack steering column with water repellent grease.

IMPORTANT: CHANGE HYDRAULIC OIL FILTER ELEMENT AFTER FIRST 100 HOURS AND THEREAFTER EVERY 300 HOURS.

#### Lubrication (See Fig.6)

Period	Кеу	Description	Lubrication	No. of Points
Daily	1	Engine	Engine Oil	1
$\bigcirc$	2	Fuel Tank	Diesel Fuel	1
	3	Gearbox	Gearbox 0il	1
	4	Drive Axles	Axle Oil	2
	5	Hydraulic Tank	Hydraulic Oil	1
	6	Footbrake Pedal	Grease Gun	1 .
Weekly	7	Accelerator Pedal	Grease Gun	1
	8	Clutch Pedal	Grease Gun	1
	9	Clutch Cross Shaft	Grease Gun	2
	10	Skip Pivot	Grease Gun	2
	11	Handbrake Cable	Grease Gun	1
	12	Chassis Centre Pivot	Grease Gun	2
	13	Prop Shafts & Universal Joints	Grease Gun	10
	14	Transfer Case	Axle Oil	1
	15	Rear Axle Pivot	Grease Gun	1
6 Monthly	16	Steering Column	Water Repellent Grease	1

NOTES: 1. Rear Axle articulation points consist of bearings that require no lubrication. (M/c's up to and including Four A 40 - 3352)

2. For full details of the lubrication and maintenance of the engine, refer to Manufacturers Manual.

# LUBRICATION POINTS

REFER TO KEY AND RECOMMENDED LUBRICANTS

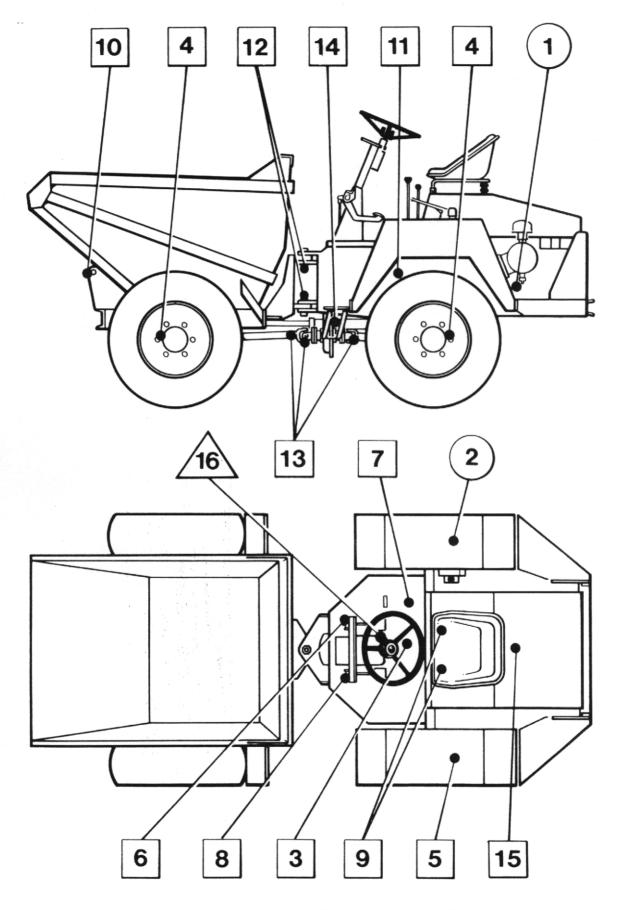


FIG.6

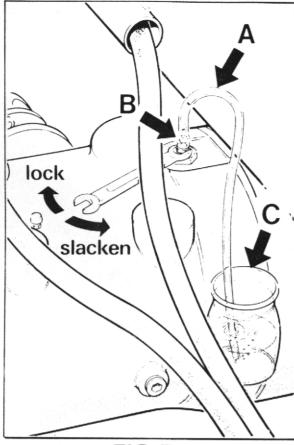
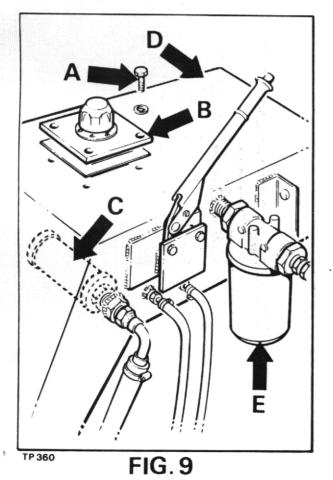


FIG. 7



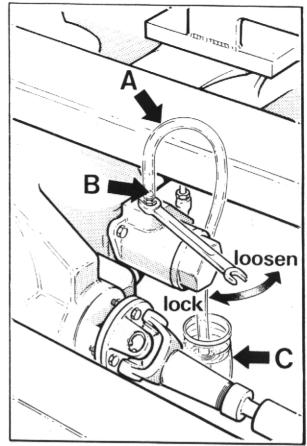
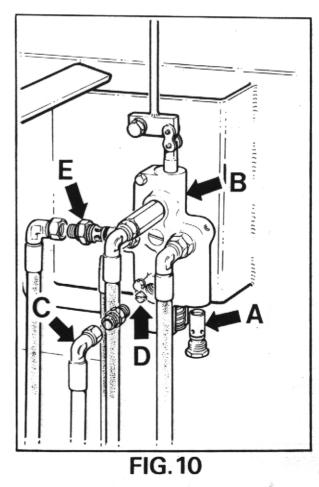


FIG.8



Four A 40; Four A 50; Four A 30

#### BRAKE SYSTEM

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

- To bleed the system, proceed as follows:-
- 1. Check that all connections are tight and all bleed screws are closed.
- 2. Check that there is sufficient oil in main hydraulic tank.
- 3. Attach bleeder tube (A) (See figs. 7 & 8) to the bleed screw (B) on front axle and immerse other end in a small quantity of hydraulic oil contained in a glass jar (C). Slacken bleed screw and operate brake pedal up and down to its full stroke, until oil pumped into the jar contains no air bubbles. Hold down pedal and close bleed screw. Remove bleeder tube and release pedal.
- Carry out the procedure on the bleedscrew on the rear axle and continue until all air has been bled from the system.
- Lock all the bleed screws.
- 6. Apply normal working load on brake pedal for two or three minutes and examine the entire system for leaks.
- NOTES: ALWAYS ENSURE THAT FREE PLAY EXISTS BETWEEN BRAKE PEDAL AND MASTER CYLINDERS. UNLESS THE PISTONS IN BOTH MASTER CYLINDERS ARE ALLOWED TO FULLY RETURN, BRAKE PRESSURE WILL BUILD UP AND THE BRAKES WILL REMAIN ON.

THE NEWAGE AXLE HAS SELF ADJUSTING BRAKES WHICH AUTOMATICALLY MEANS THAT THE DUAL LIFE LINE SAFETY SYSTEM IS ALWAYS READY TO RESPOND IN THE EVENT OF PROBLEMS. IN THE CASE OF VEHICLES FITTED WITH HAMWORTHY AXLES (WHICH DO NOT INCORPORATE AUTOMATIC BRAKE ADJUSTMENT) IT IS ESSENTIAL THAT BRAKE ADJUSTMENT IS WELL MAINTAINED IN ORDER THAT THE DUAL LINE SYSTEM SHOULD WORK CORRECTLY IN THE EVENT OF POSSIBLE FAILURE TO ONE CIRCUIT.

#### HYDRAULIC SYSTEM

The single hydraulic pump provides power for both the skip operation and steering. The main hydraulic valve splits the pump output into two circuits with controlled rate priority flow to steering circuit. If the hydraulic system fails to operate completely or does so extremely slowly carry out the following procedure. 1. Check that hydraulic tank is full of oil.

2. Check that hydraulic suction filter is not blocked. (See fig.9).

- a) Remove the four setscrews (A) that secure the filler cap assembly(B) and remove assembly.
- b) Unscrew suction filter (C) from inside tank (D) and wash in white spirit. Dry with moisture-free compressed air.
- c) Replace suction filter and filler cap assembly.
- NOTE: If suction filter cannot be thoroughly cleaned, fit a new one.

Check that the return line filter element has been regularly changed in accordance with the maintenance schedule. If not, change filter element (E).

- 3. Check that the hydraulic pressures are correct.
  - Tip circuit.
  - a) Fit a 2000 lb/sq.in. gauge into the hydraulic system at the base of the skip ram.
  - b) Operate control lever to dump skip and check that pressure reading on gauge is 1750 lb/sq.in. when ram is fully extended and relief valve is "blowing".

STEERING CIRCUIT

- a) Fit a 2000 lb/sq.in. gauge into the hydraulic system at the base of the steering ram.
- b) Turn steering wheel with machine on "full lock" and check that the reading on the gauge is 1750 lb/sq.in.

NOTE: - If correct pressure is not attained-

Tip circuit.

- 4. Remove relief valve cartridge (A) (hexagon head) from the bottom of the control valve (B) (See fig.10) and replace with a new one.
- 5. Remove hose adaptor (C) from control valve (See fig.10), remove hexagonal orifice plate (D) and wash in white spirit. Dry using moisture-free compressed air. DO NOT poke wire etc. into the orifice. Re-fit plate and hose adaptor with slot of orifice plate facing outwards.
  - STEERING CIRCUIT
- 6. Remove relief valve cartridge (A) (hexagon head) from the bottom of the control valve (B) (See fig.10) and replace with a new one.

7. Replace flow control valve (E) (See fig.10). (FOUR A50/60/ 80 only)

If none of these procedures correct the fault contact your Winget agent. Periodically check the hose between the pump and the tank to ensure it is not deformed. Any deformation in the hose may result in a restricted flow of fluid and damage to the pump.

# **SPARE PARTS SECTION**

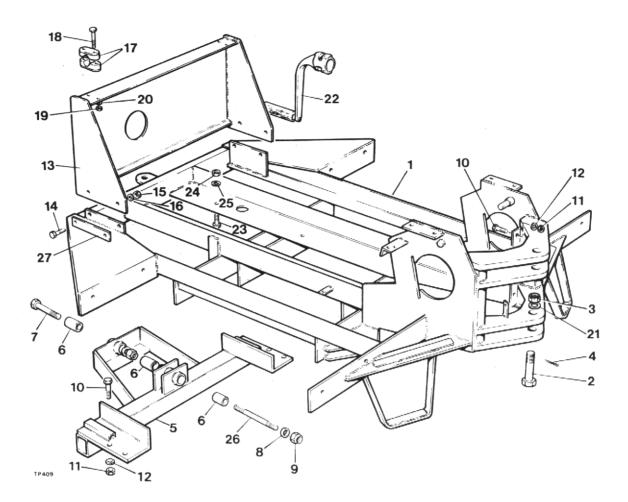
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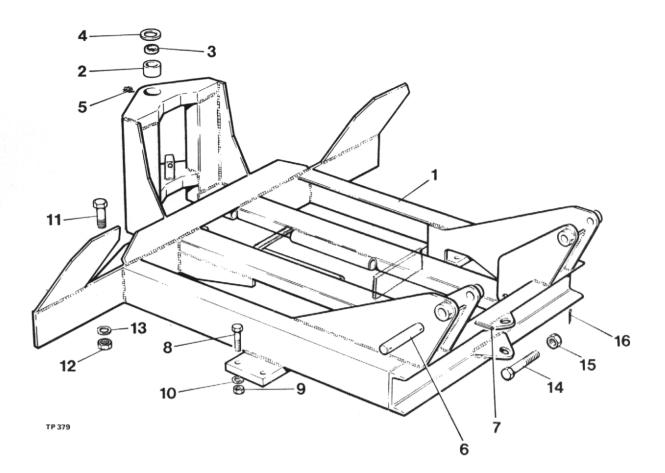
HIGH DISCHARGE SKIP & FRAME	55
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# REAR CHASSIS AND ARTICULATING FRAME

(For machines up to and including M/c No. Four A 40 -3352)



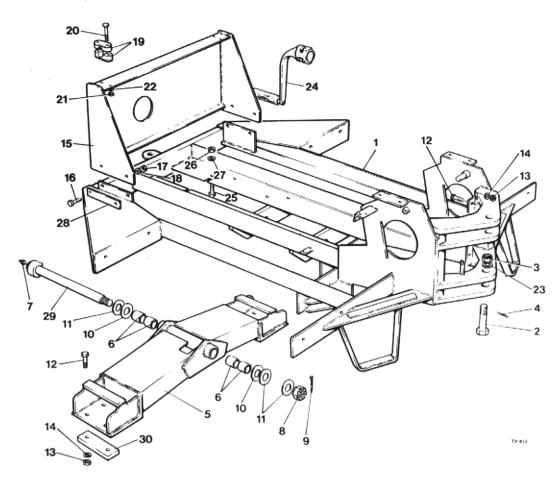
ltem No.	Part No.	Description	Qty.
1	40101.A01	Rear Chassis	1
2	10375.A01	Bolt 1½" UNF x 110mm Long	2
3	4-60-171	Nut 1支" UNF Castle	2
4	44S.5L	Split Pin 3/16" Dia. x 3" Long	2
5	30149.A03	Articulating Frame	1
6	10588.A01	Pivot Bush	3
7	8S.8S	Bolt Hex. Hd. M24 x 150 Long	1
8	12S.10	Washer M24	3
9	59S.07	Locknut M24	3
10	8S.5D	Bolt Hex. Hd. M12 x 40 Long	8
11	618.5	Nut M12	12
12	12S.6	Washer M12	12
13	40105.A01	Rear Frame	1
	40095.A01	Rear Frame(Lister)	1
14	8S.4A	Bolt Hex. Hd. M10 x 25 Long	4
15	61S.4	Nut M10	4
16	12S.5	Washer M10	4
17	10364.A01	Pivot Block	2
18	8S.2F	Bolt Hex. Hd. M6 x 50 Long	4
19	61S.2	Nut M6	4
20	12S.2	Washer M6	4
21	4-60-240	Washer	2
22	100A	Starting Handle	1
23	6S.5D	Bolt Hex. Hd. 之" UNF x 1,5/8" Long	4
24	132S.5	Locknut ½" UNF	4
25	10S.4	Washer 👌" Dia	4
26	10595.A01	Stud M24 x 245 Long	1
27	10623.A01	Packer	2



Item No.	Part No.	Description	Qty.
1 40100A11	40100.A02	Front Chassis Front Chassis - (Rotating Skip)	1
	40100.A12 4-60-214	Front Chassis - (High Discharge Skip)	1
3	ESE 199	Pivot Bush Pivot Spacer	4
4 5	4-60-240 T90	Washer Grease Nipple	2 2
6	10522.A01	Skip Pivot	2
8	54S.8S 6S.5F	Tension Pin Bolt ½" UNF X 2" Long	2 8
9 10	132S.5 10S.4	Nut 攴" UNF Washer 攴" dia	8 8
11	10599.A01	Steering Ram Bolt 1दे" UNF 4.3/8" long	8 2
12 13	10600.A01 675.13	Steering Ram Nut 1칠" UNF Shakeproof Washer 1칠" dia	2 2
14 15	10352.A01	Skip Ram Pivot Bolt Skip Ram Pivot Nut	2
16	445.5H	Split Pin 3/16"	2

# REAR CHASSIS AND ARTICULATING FRAME

(For machines from M/c No. Four A 40" - 3353;



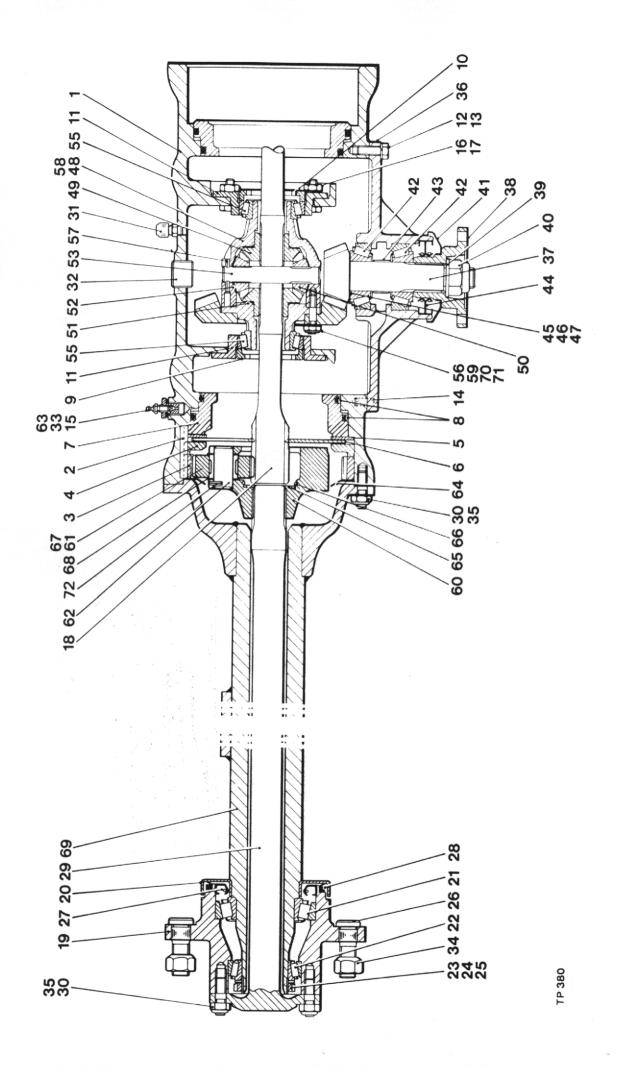
I	tem	No.	
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Part No.

Description

Qty.

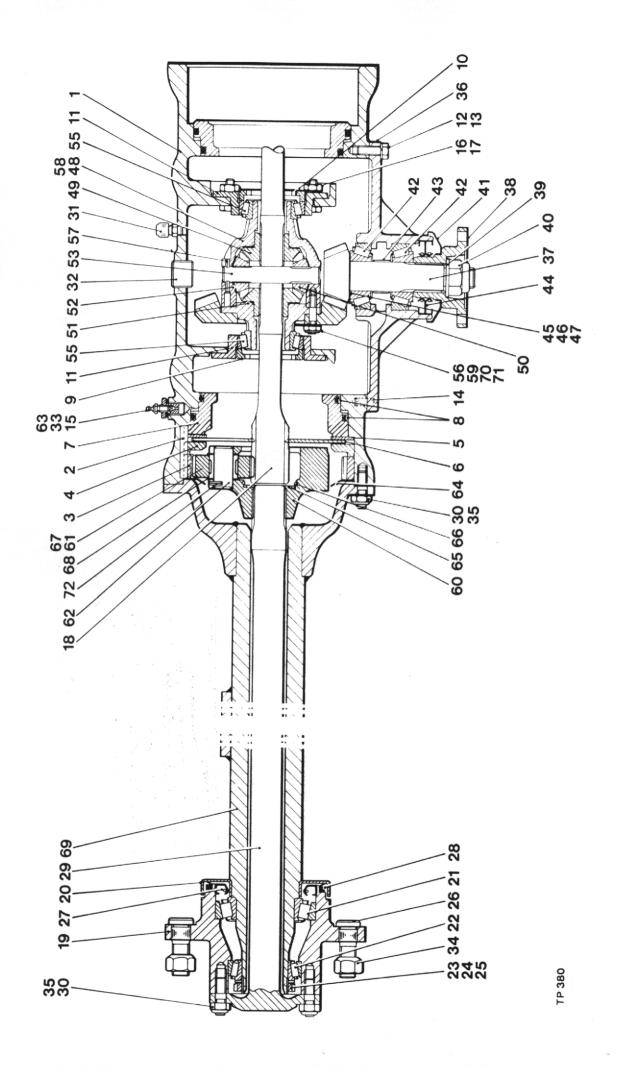
1	40101.A03	Rear Chassis]	1
2	10375.A01		2
3	4-60-171	Nut 12" UNF Castle 2	-
4	44S.5L	Split Pin 3/16" Dia. x 3" Long	2
5	30188.A02	Axle Pivot Beam	1
6	4-35-29B	Bush	
7	1315.3	Grease Nipple	
8	4-60-171	Castle Nut	-
9	44S.5L	Split Pin	
10	4-35-29C	Thrust Washer	-
11	ASE 178	Washer	
12	8S.5D	Bolt Hex. Hd. M12 x 40 Long 8	-
13	615.5	Nut M12	-
14	125.6	Washer M12	
15	40105.A01	Rear Frame(Petter)	-
	40195.A01	Rear Frame ······ (Lister) 1	
16	11S.4C	Setscrew Hex. Hd. M10 x 25 Long 4	
17	61S.4	Nut M10 4	ŧ
18	128.5	Washer M10 4	+
19	10364.A01	Pivot Block 2	,
20	8S.2F	Bolt Hex. Hd. M6 x 50 Long 4	
21	61S.2	Nut M6 4	÷
22	12S.2	Washer M6 4	÷
23	4-60-240	Washer	)
24	100A	Starting Handle 1	
25	6S. 5D	Bolt Hex. Hd. 2" UNF x 1,5/8" Long 4	ŧ
26	1328.5	Locknut ½" UNF 4	ł
27	10S.4	Washer ½" Dia 4	ł
28	10623.A01	Packer 2	,
29	20161.A01	Pivot Pin 1	-
30	10632.A02	Packing Piece (Salisbury Axle) 2	



DRIVE	AXL	Ε
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# Item No. Part. No. Description

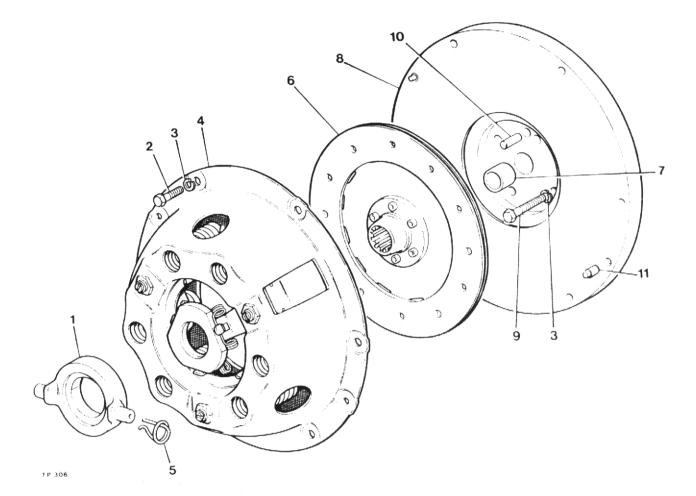
			1
	30156.A01	Axle Complete	1 1
1	30156.A0101	Main Axle Casing Dowel Pin	4
2	30156.A0102	Dowel Pin	2
3	30156.A0103	Brake Spacer Plate	2
4	30156.A0104	Brake Fixed Plate	2
5	30156.A0105	Oil Immersed Brake Disc	2
6	30156.A0106	Brake Piston	2
7	30156.A0107	Piston 'O' Ring Set	2
8	30156.A0108	Bearing Adj. Nut	2
9	30156.A0109 30156.A0110	Bearing Adj. Nut Lock Plate	2
10	30156.A0111	Bearing Housing	2
11	11S.3C	Hex. Hd. Screw	12
12	175.4	Spring Washer	12
13	30156.A0112	Dowel Pin	2
14	30156.A0112	Brake Pipe Adaptor	4
15	11S.4D	Hex. Hd. Screw	6
16	598.03	Nyloc Nut	6
17	30156.A0114	Sun Gear	2
18	30156.A0115	Hub	2
19	30156.A0116	Oil Seal Housing	2
20	30082.A0221	Hub Inner Bearing	2
21 22	30156.A0118	Hub Outer Bearing	2
23	30156.A0119	Hub Bearing Spacer	2
24	30156.A0120	Bearing Lock Nut	2
24	30156.A0121	Tab Washer	2
26	30156.A0122	Wheel Stud	10
27	30156.A0123	Hub Oil Seal	2
28	30156.A0124	Hub 'V' Ring Seal	2
29	30156.A0125	Axle Shaft	2
30	30156.A0126	Stud	44
31	30082.A0214	Relief Valve	1
32	30082.A0212	Hex. Socket Plug	2
33	30082.A0215	Brake Bleed Valve	2
34	DM 190	Wheel Nut	10
35	595.03	Nyloc Nut	44
36	30156.A0129	Input Pinion Cartridge (Casing only)	1
37	30156.A0163	Spiral Bevel Wheel & Pinion	1
38	30156.A0131	Drive Flange	1
39	30081.A0231	Drive Flange Washer	1
40	30082.A0232	Drive Flange Nut	1
41	30156.A0134	Oil Seal Cover	1
42	30156.A0135	Pinion Bearing	2
43	30156.A0136	Pinion Bearing Spacer	1
44	30156.A0137	Pinion Oil Seal	1
45	30156.A0138	Pinion Adj. Shim	A/R
46	30156.A0139	Pinion Adj. Shim	A/R
47	30156.A0140	Pinion Adj. Shim	A/R
48	30156.A0142	Diff. Case (L.H.)	1
49	30156.A0143	Diff. Wheel	2
50	30082.A0240	Diff. Pinion	2
51	30156.A0144	Diff. Wheel Thrust Washer	2



# DRIVE AXLE (Cont'd)

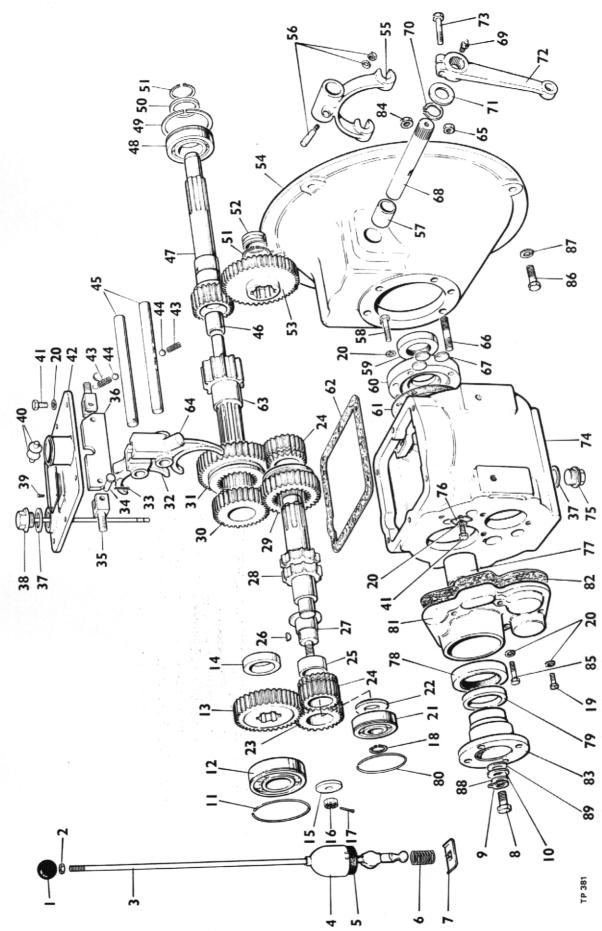
Item No.	Part No.	Description	Qty
52	30156.A0145	Diff. Pinion Thrust Washer	2
53	30156.A0146	Diff. Spider	1
55	30082.A0244	Diff. Bearing	2
56	30156.A0148	Stud	10
57	30156.A0149	Spring Dowel	1
58	30156.A0150	Diff. Case (R.H.)	1
59	30156.A0151	Tab Washer	1
60	30156.A0152	Planet Carrier	1
61	30156.A0153	Planet Gear	3
62	30156.A0154	Planet Pin	3
63	30156.A0155	Washer	4
64	30156.A0156	Shield	2
65	30156.A0157	Axle Shaft Thrust Spacer	1
66	30156.A0158	Circlip	1
67	30156.A0159	Planet Cage Roller	3
68	30082.A0249	Planet Thrust Washer	6
69	30156.A0160	Axle Arm	2
70	30156.A0161	Tab Washer	4
71	7S.4	Nut	10
72	30156.A0162	Spring Dowel	3

# FLYWHEEL AND CLUTCH



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

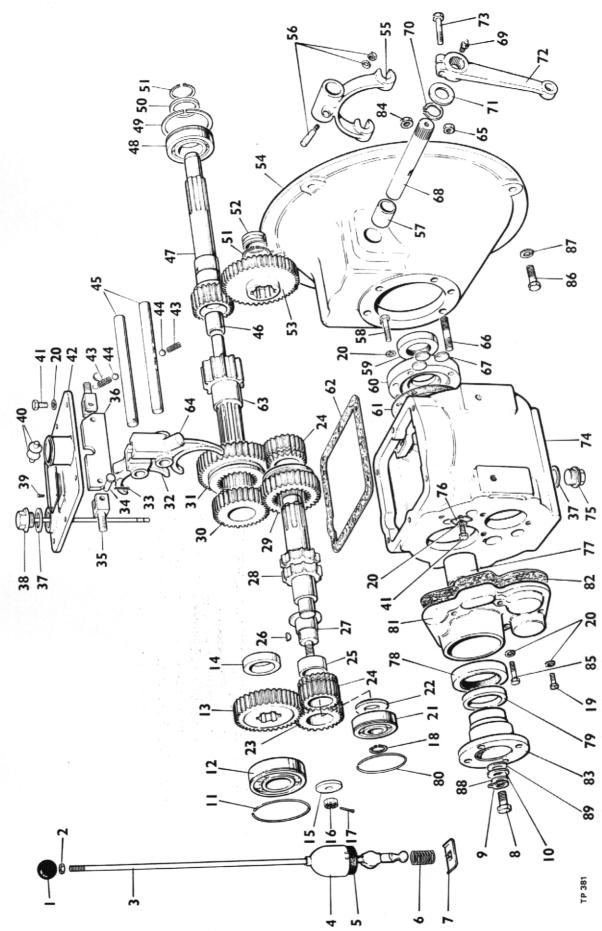
It is recommended that instead of drilling the head of the bolts (item 9) for locking wire that one of each of tabwashers part no's 10531A02 and 10531A03 are used to prevent the bolts working loose.



G	E	Α	R	B	0	х

Item No	. Part No.	Description	Qty.
	30101.A02	Gearbox complete	1
1	30101.A0201	Gear Lever Knob	1
2	958.3	Gear Lever Locknut	1
3	30101.A0202	Gear Lever	1
4	30101.A0203	Gear Lever Cap	1
5	30101.A0204	Gear Lever Cover	1
6	30101.A0205	Gear Lever Spring	1
7	30101.A0206	Gear Lever Retaining Plate	1
8	28S.'5E	Bolt	1
9	30101.A0207	Tab Washer	1
10	30101.A0208	Washer	1
10	30101.A0209	Snap Ring	1
12	30101.A0210	Bearing, Mainshaft Rear	1
13	30101.A0211	Output Gear	1
14	30101.A0212	Output Gear Spacer	1
14	30101.A0213	Reverse Pinion Shaft Washer	1
16	1025.4	Reverse Spindle Nut	1
10	44S.2C	Split Pin	1
17	30101.A0215	Circlip	1
19	285.1D	Bolt	3
20	135.2	Spring Washer	17
20	30101.A0216	Layshaft Bearing	1
22	30101.A0217	Bearing Spacer	1
22	30101.A0218	Reverse Pinion	2
. 24	30101.A0219	Reverse Speed Gear	2
24	30101.A0220	Reverse Pinion Bush	1
25	30101.A0220	Reverse Pinion Shaft Key	1
20	30101.A0222	Reverse Pinion Shaft	1
27	30101.A0223	Layshaft	1
20	30101.A0223	2nd. Speed Sliding Gear	1
30	30101.A0225	Second Speed Gear	1
31	30101.A0226	1st Speed Gear	1
32	30101.A0227	2nd. and 3rd. Selector Fork	1
33	44S.1C	Split Pin, Interlock	2
34	30101.A0228	Clevis Pin, Interlock	2
35	30101.A0229	Stud, Interlock	2
36	30101.A0230	Interlock Plate	1
37	42S.5	Sealing Washer	2
38	30101.A0232	Dipstick	1
39	30101.A0233	Drive Screw	4
40	30101.A0234	Gear Lever Pad	2
40	28S.1C	Bolt	7
42	30101.A0235	Top Cover	1
43	30097.A0185	Detent Spring	2
44	30101.A0236	Detent Ball	2
45	30101.A0237	Selector Shaft	2
46	30101.A0238	Bearing, Primary Shaft	1
40	30101.A0239	Primary Shaft	1
47	30101.A0240	Input Bearing	1
40	30101.A0240	Snap Ring	1
49 50	30101.A0241	Bearing Spacer	1
50	30101.A0242	Circlip	2
51	30101.A0245	Layshaft Bush	1
53		lst. Reduction Gear	1
20	JUIUI.AU24)	ist. Reduction deal	~

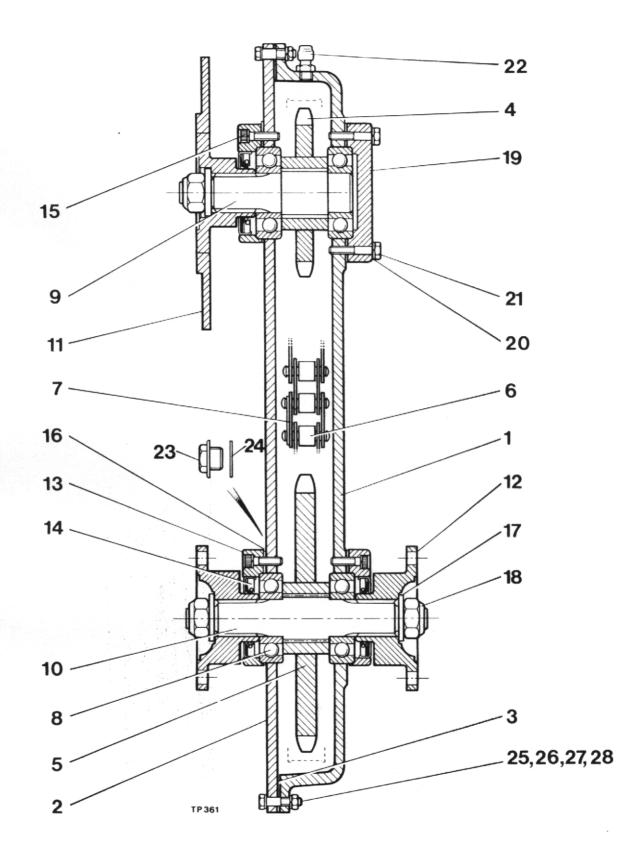
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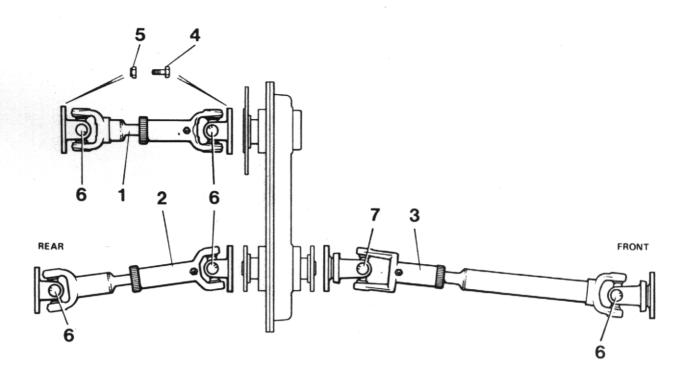
Item No.	Part No.	Description	Qty.
54	30101.A0246	Clutch Housing	1
55	30101.A0248	Clutch Release Fork	1
56	30097.A0111	Cotter, Nut and Washer S/A	1
50	30097.A0111	Cross Shaft Bush	2
58	6S.1A	Front Cover Bolt	4
물건 경험 지금 방송하는 것은 것을 가지 않는 것을 하는 것을 했다.	30101.A0247	Oil Seal, Input	1
59	30101.A0247	Front Cover.	1
60		Front Cover Gasket	1
61	30101.A0249		1
62	30101.A0250	Top Cover Gasket	1
63	30101.A0251	Mainshaft lst. and Reverse Selector Fork	1
64	30101.A0252	Clutch Lever Nut	1
65	9S.1		6
66	30101.A0253	Clutch Housing Stud	3
67	30101.A0254	Welch Plug	1
68	30101.A0255	Clutch Cross Shaft	2
69	1315.1	Grease Nipple	1
70	30101.A0256	Circlip	1
71	30097.A0133	Cross Shaft Washer	1
72	30097.A0109	Clutch Release Lever	-
73	6S.1C	Clutch Lever Bolt	1
74	30101.A0258	Gearcase	1
75	30097.A0163	Drain Plug	1
76	30101.A0259	Selector Locking Strip	1
77	30101.A0260	Spacer	1
78	30097.A0132	Rear Oil Seal	1
79	30101.A0265	Dust Shield	1
80	30101.A0261	Snap Ring	1
81	30101.A0262	Output Cover	1
82	30101.A0263	Output Cover Gasket	1
83	30101.A0264	Coupling	1
84	1075.3	Nut (Clutch Housing)	6
85	6S.1	Bolt	2
86	1S.3B	Bolt 3/8" BSF x 1" Long	6
87	41S.5	Spring Washer 3/8" dia	6
88	30143.A0111	Fibre Washer	1
89	30143.A0101	Fibre Washer	1
	- 2017년 1217년 1218년 1		



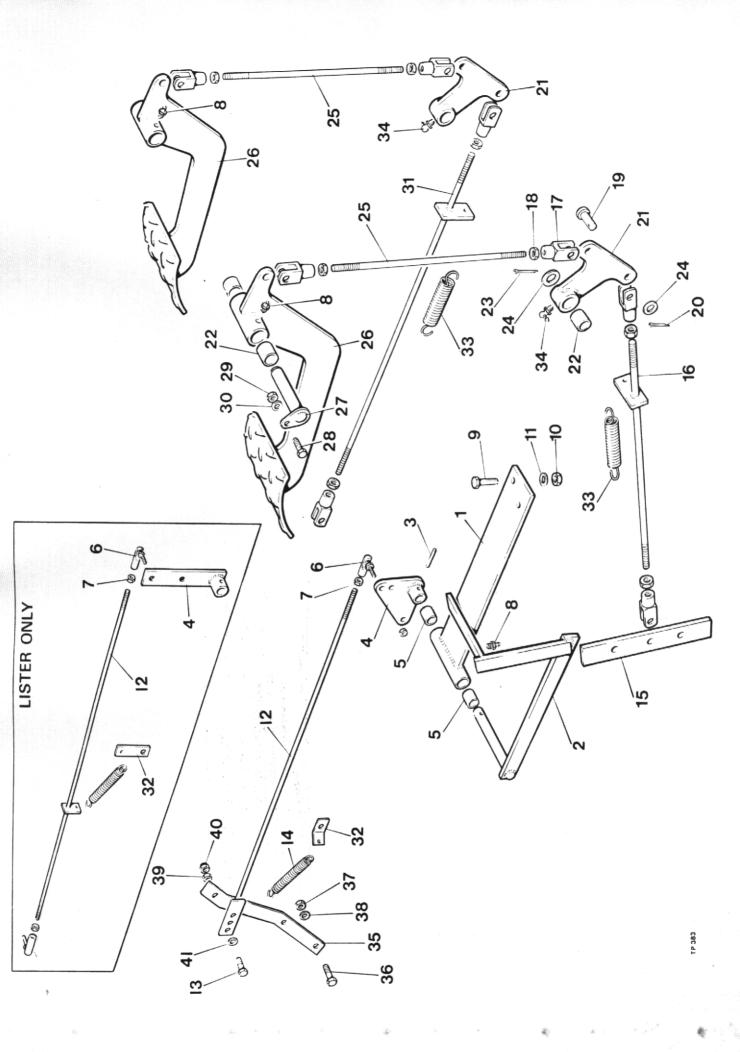
# TRANSFER BOX

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Item	No.	Part No.	Description	Qty.
	Ę	40098.A01	Transfer Box complete	1
1		4/35-96	Case	1
2		40097.A01	Cover	1
3		4/35-20	Gasket	1
4		10294.A01	Chain Wheel (15T)	1
5		4/35-17	Chain Wheel (19T)	1
6		4/35-353	Roller Chain	1
7		815.1	Connecting Link	1
8		885.6	Ball Bearing	4
9		10299.A01	Input Shaft	1
10		10300.A01	Output Shaft	1
11		20109.A01	Input Flange Assembly (c/w Brake Disc)	1
12		10384.A01	Output Flange	2
13		4/35-102	Oil Seal Housing	3
14		895.1	Oil Seal	3
15		90S.2H	Capscrew	12
16		10293.A01	Gasket	4
17		105.6	Washer 3/4" Dia	3
18		875.8	Locknut 3/4" UNF	3
19		10298.A01	End Cover	1
20		10S.1	Washer 1/4" Dia	4
21		6S.1A	Hex. Hd. Bolt 1/4" UNF x 1,1/8" Long	i
22		10305.A01	Breather	1
23		10301.A01	Level/Filter Plug	ĩ
24		428.5	Fibre Washer	î
25		8S.2C	Hex. Hd. Bolt M6 x 35 Long	24
26		12S.2A	Washer M6	24
27		17S.3A	Spring Washer M6	24
28		7S.2A	Nut M6	24



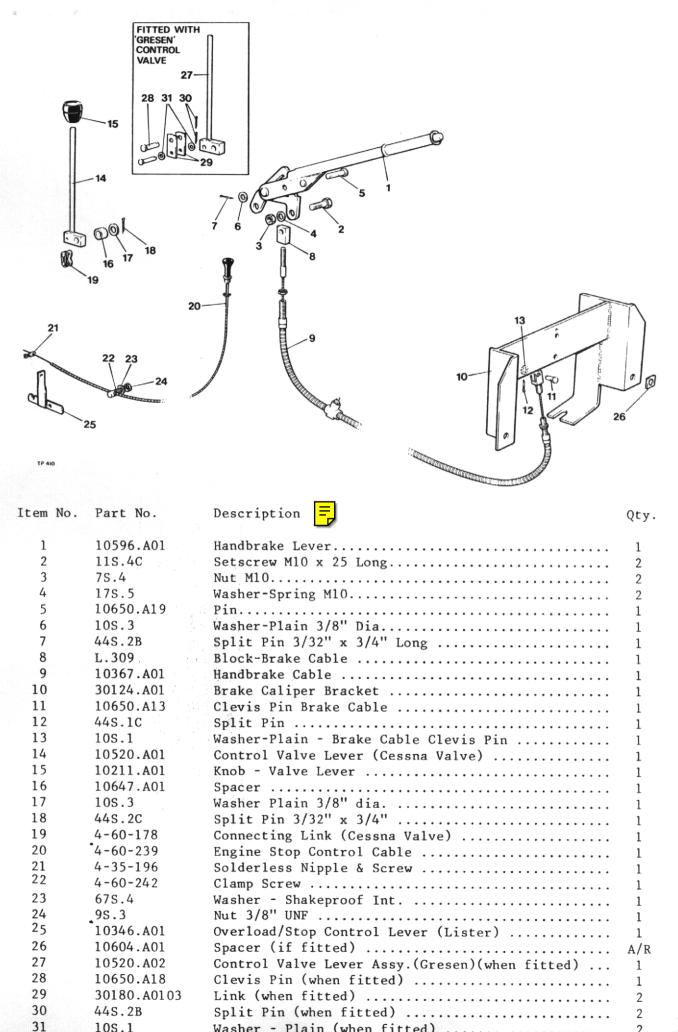
Item No.	Part No.	Description	Qty.
1	20087.A01	Prop Shaft	1
2		Prop Shaft	
3	30095.A01	Prop Shaft	
4	10365.A01	Prop Shaft Bolt	
5	875.3	Nut 3/8" UNF	24
6	10568.A01	Repair Kit (Std. Angle)	A/R
7	10568.A02	Repair Kit (Wide Angle)	A/R

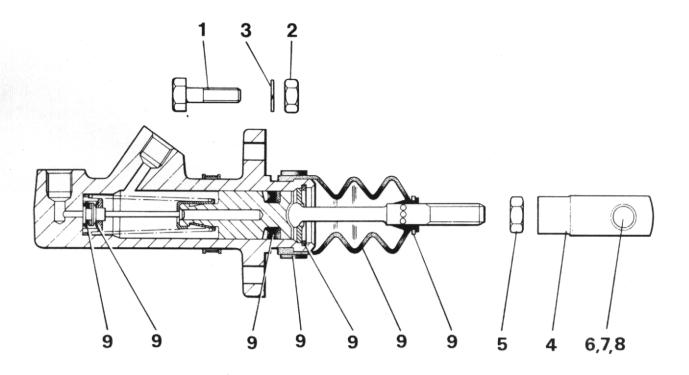


# PEDAL CONTROLS

Item	No.	Part No.	Description	Qty.
1		20118.A01	Mounting Plate	1
2		20104.A01	Accelerator Pedal Assembly	1
3		54S.1A	Tension Pin	1
4		10552.A01	Accelerator Lever (Petter)	1
dia si i		10312.A01	Accelerator Lever (Lister)	1
5		WB 0808	Bush	2
6		C160B	Rod Ball End (Petter)	1
Ū		C160B	Rod Ball End (Lister)	2
7		25.2	Nut	1
8		TS/T	Grease Nipple	1
9		115,4E	Bolts Hex. Hd. M10 x 35 Long	2
10		75.4	Nut M10	2
11		175.5	Spring Washer M10	2
12		10322.A02	Accelerator Rod (Petter)	1
12		20116.A01	Accelerator Rod (Lister)	1
13			Bolt Hex. Hd. <sup>1</sup> z" UNF x 1 <sup>1</sup> z" Long	1
		6S.1B		-
14		C173D	Spring	1
15		20117.A02	Brake Compensator	1
16		10518.A01	Compensator Rod	1
17		C174A	Clevis	8
18		74S.4	Nut 3/8" BSP	8
19		C174X	Clevis Pin	8
20		44S.2C	Split Pin 3/32" x 1" Long	8
21		20111.A01	Bell Crank	2
22		WB 1212	Bush	6
23		44S.4C	Split Pin	2
24		10S.5	Washer	2
25		L359	Rod 3/8" x 343mm Long	2
26		20096.A01	Pedal Assembly	2
27		10368.A01	Pedal Pivot Pin	2
28		64S.2B	Setscrew Hex. Hd. M6 x 15 Long	2
29		65S.2	Nut M6	2
30		175.3	Spring Washer M6	2
31		10481.A01	Clutch Rod	1
32		C163	Bracket	1
33		C173B	Spring	2
34		Т90	Grease Nipple	4
35		10311.A01	Speed Control Arm (Petter)	1
36		11S.2A	Hex. Hd. Bolt M6 x 16 Long	2
37		61S.2	Nut Self Locking M6	2
38		12S.2	Washer	2
39		9S.1	Nut	1
40		87S.1	Nut Self Locking	1
41		10S.1	Washer	1
				_

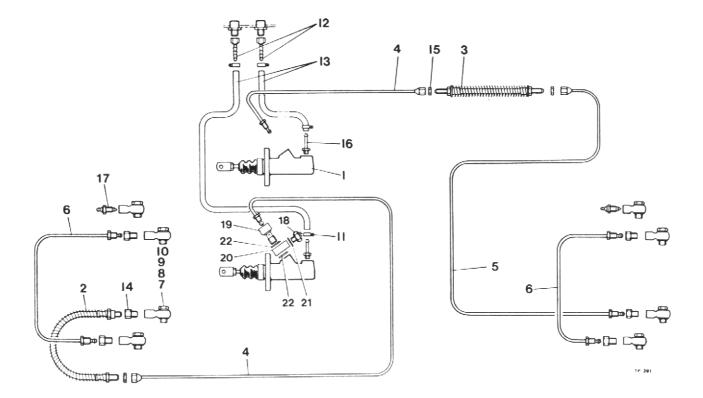
#### VALVE CONTROL, HANDBRAKE AND ENGINE STOP



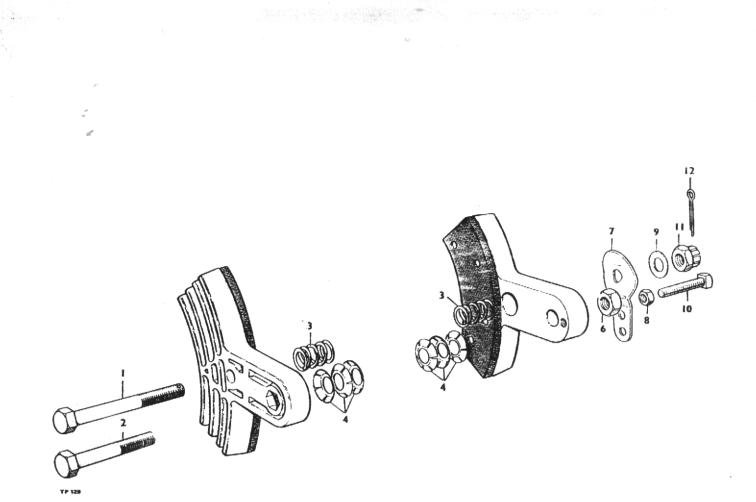


Item No.	Part No.	Description	Qty.
	20102.A02	Master Cylinder	2
1	11S.3E	Bolts Hex. Hd. M8 x 35 Long	
2	75.3	Nuts M8	
3	17S.4	Spring Washer	4
4	C174J	Clevis	2
5	958.3	Nut 3/8" UNF Thin Nut	
6	C174Y =	Clevis Pin	2
7	10S.2	Washer 5/16"	2
8	44S.2C	Split Pin 3/32" x 1" Long	2
9	10570.A01	Service Kit	A/R

#### BRAKE PIPES AND FITTINGS

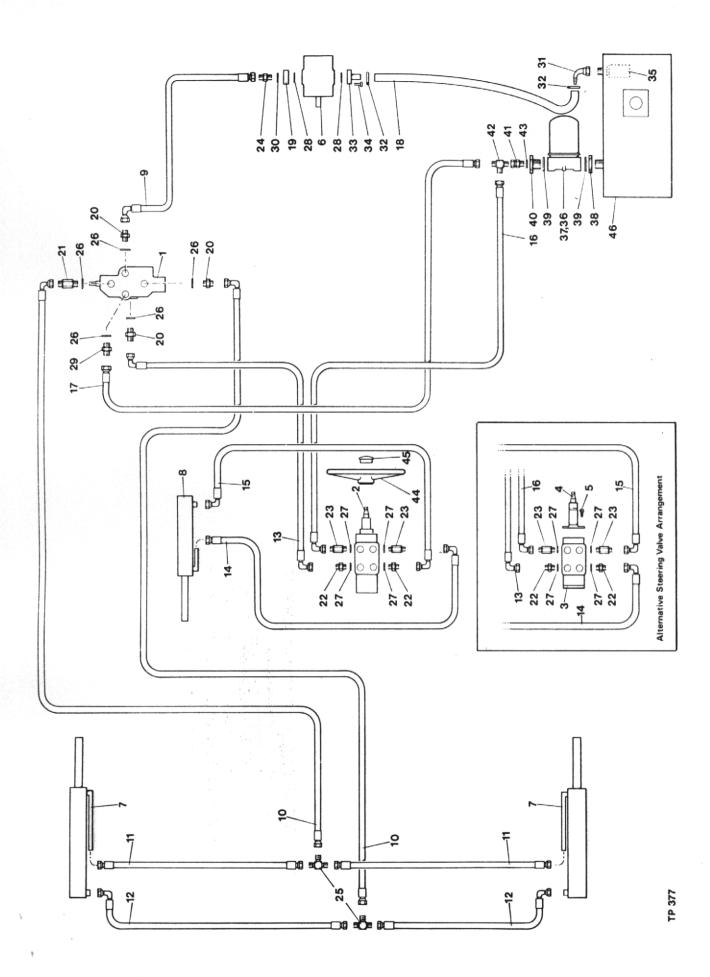


Item No.	Part No.	Description	Qty.
1	20102.A02	Master Cylinder	2
2	10516.A02	Flexible Brake Hose	1
3	10517.A02	Flexible Brake Hose	1
4	10577.A0101	Brake Pipe Ml2 x 770 Long Male/Female	2
5	10577.A0102	Brake Pipe M12 x 965 Long Male/Female	1
6	10577.A0202	Brake Pipe M12 x 345 Long Male/Make	2
7	64474287	Banjo	8
8	376102W	Banjo Bolt	8
9	378700	Washer	8
10	378703	Washer	8
11	97S.1	Pipe Clip	4
12	110S.1A	Nozzle え" BSP	2
13	29S.7	Hose 注" Bore x 1000mm Long	2
14	10354.A02	Brake Pipe Adaptor	6
15	10582A01	Half Nut Ml2	3
16	10542.A01	Stub Pipe Assembly	2
17	30082.A0215	Brake Bleed Valve (see also Axle section)	2
18	FSE.337	Brake Switch (if fitted)	1
19	10656.A01	Special Bolt (if fitted)	1
20	10657.A01	Connector (if fitted)	1
21	3787 03	Washer (if fitted)	1
22	10661.A01	Washer (if fitted)	2



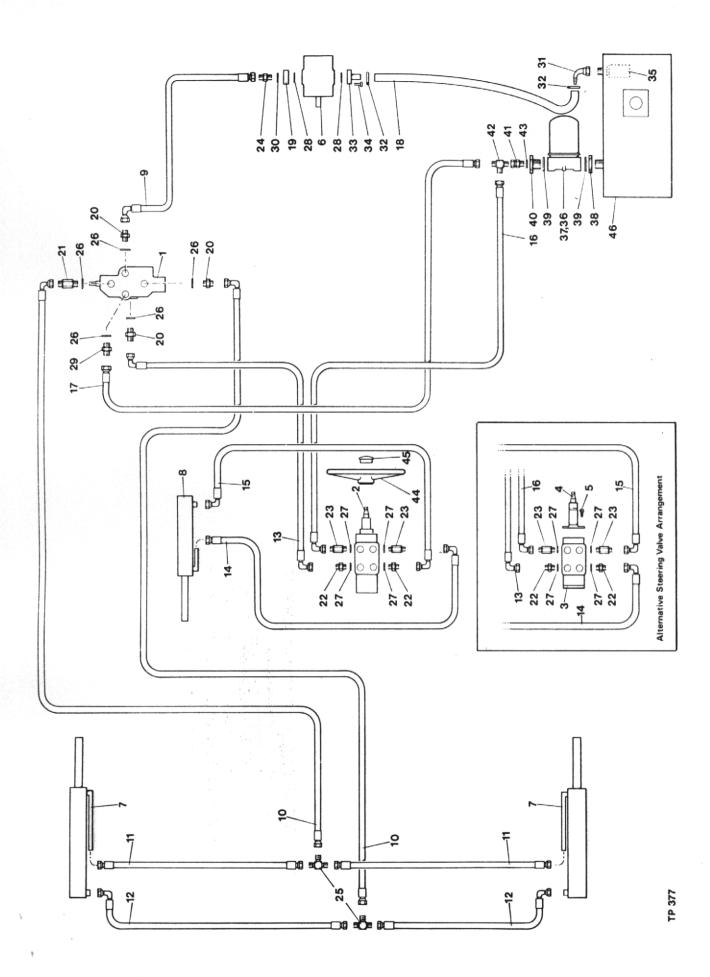
# CALIPER, parking brake

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



#### HYDRAULICS

Item No.	Part No.	Description	Qty.
1	30057.A01	Control Valve (Cessna)-(When Fitted)	1
	30180.A01	Control Valve (Gresen)-(When Fitted)	1
2	20110.A01	Steering Valve (Gemmer) (c/w Steering Wheel Nut).	1
	8S.4A	Bolt Hex. Hd. M10 x 25 Lg. (Steering Valve Fixing-	
		Gemmer)	
	135.4	Shakeproof Washer (Steering valve Fixing - Gemmer)	3
	CSE 182	Steering Valve Spacer (Steering Valve Fixing -	_
		Gemmer)	
	CSE 178	Steering Valve complete (Danfoss)	1
3	CSE 178-2	Steering Valve (Danfoss)	1
4	CSE 178-1	Steering Column (Danfoss)(c/w Steering Wheel Nut)	1
5	103S.4B	Capscrew 3/8" UNC x 3/4" Long	2
	69S.3G	Bolt 3/8" UNC x 12" Long (Steering Valve Fixing-	
		Danfoss)	2
	67S.4	Shakeproof Washer 3/8" dia. (Steering Valve Fixing	
		Danfoss)	2
	CSE 182	Steering Valve Spacer (Steering Valve Fixing -	
		Danfoss)	2
6	10535.A01	Pump (Petter)	1
	10539.A01	Pump (Lister)	1
7	30161.A01	Hydraulic Cylinder (Skip)	2
8	30121.A01	Hydraulic Cylinder (Steering)	1
9	31S.2EE	Hose 3/8" x 410 Long ST x 90°	1
10	31S.2D	Hose 3/8" x 112 Long ST x 90 <sup>0</sup>	2
11	355.21	Hose 3/8" x 25 Long ST x ST	2
12	31S.2AA	Hose 3/8" x 20 Long ST x 900	2
13	365.211	Hose 3/8" x 89 Long 90° x 90° @ 270°	1
14	315.2G	Hose $3/8" \times 77$ Long ST x $90^{\circ}$	1
15	36S.2HH	Hose 3/8" x 77 Long 90° x 90° @ 135°	1
16	31S.2E	Hose 3/8" x 99 Long ST x 90°	1
17	35S.3U	Hose ½" x 790mm Long ST x ST	1
18	37S.1G	Hose 3/4" Cotton Braid x 30" Long	1
19	4-35-261	Adaptor Plate	1
20	CSE 186	Adaptor, Short 7/8" JIC. x 3/8" BSP	3
21	4-60-158	Adaptor, Long 7/8" JIC. x 3/8" BSP	1
22	4-35-40K	Adaptor, Short 3/4" UNF x 3/8" BSP	2
23	4-60-115	Adaptor, Long 3/4" UNF x 3/8" BSP	2
24	T.14J	Adaptor, 3/8" BSP x 3/8" BSP	1
25	4-35-388	Tee and Bracket	1
26	49S.1	"O" Ring	5
27	495.2	"O" Ring	4
28	49S.11	"O" Ring	2
29	DSE 115	Adaptor 7/8" JIC. x 2" BSP	1
30	100S.3	Seal 3/8" BSP	1
31	BSE 109	Elbow 3/4" BSP 90 <sup>o</sup>	1
32	975.7	Hose Clip 1"-1,3/8"	2
33	10475.A01	Adaptor Plate	1
34	103S.3C	Capscrew 5/16" UNC x 1" Long	4
35	1085.1	Suction Strainer	1
36	10363.A01	Return Line Filter	1
37	10363.A02	Filter Element	1
38	728.7	Back Nut 1,1/4" BSP	1
		-	



#### HYDRAULICS (Cont'd)

Item No.	Part No.	Description	Qty.
39	100S.9	Seal, 1,1/4" BSP	
40	111S.1	Reducing Bush 1,1/4" Male x 2" Female BSP	
41	112S.1	Adaptor Male/Female ½" BSP	
42	1135.1	Unequal Male Tee 之" x 3/8" x 초" BSP	
43	100S.4	Seal ½" BSP	
44	40064.A01	Steering Wheel	
45	10314.A01	Steering Wheel Cap	
46	40074.A03	Hydraulic Tank including Mudwing	1
	177	Cable Tie (Not illustrated)	3

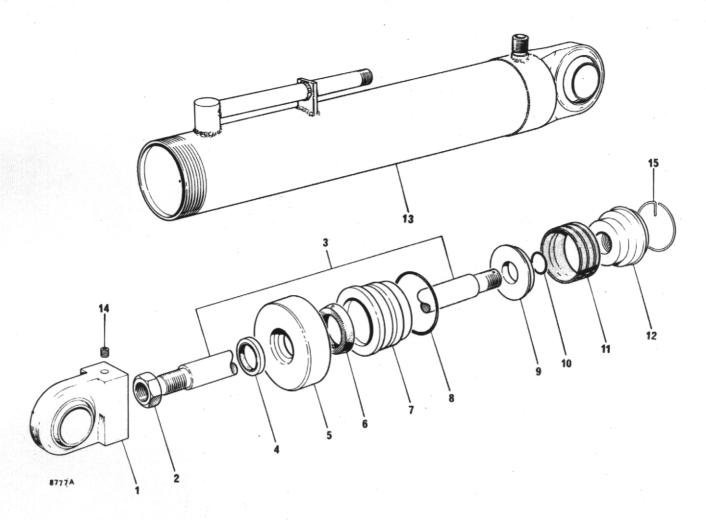
IT IS RECOMMENDED THAT DANFOSS OSPB STEERING UNITS ARE ONLY SERVICED IN DANFOSS AUTHORISED SERVICE SHOPS.

FOR U.K. - contact - Danfoss (London) Ltd., Perivale Industrial Estate, Horsenden Lane South, Greenford, Middlesex. Tel: 01 998 2041 Telex: 24223.

FOR EUROPEAN COUNTRIES - contact - Department OG-SHT(Denmark) Telex: 50599

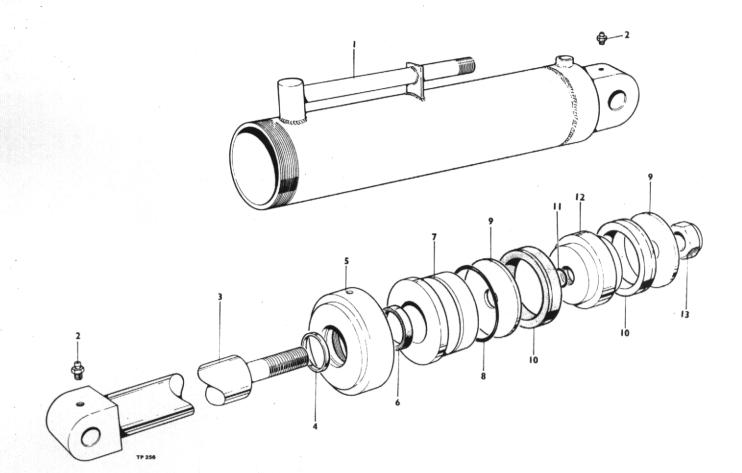
Customers having suitable facilities who wish to service the units themselves are advised to contact Winget Service Department, Winget Ltd., Rochester, Kent, England, who can supply service details.



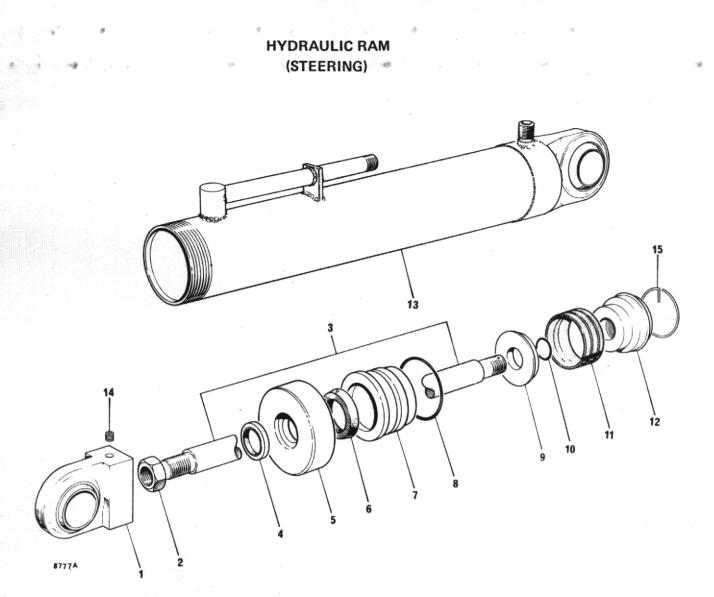


Item	No.	Part No.	Description	Qty.
		30161.A01	Ram Complete (2 per M/c except High Discharge	M/c's)
	1	30121.A0101	Piston Rod Fitting	1
	2	30121.A0102	Locknut	1 .
	3	30161.A0101	Piston Rod	1
	4	30121.A0104	Wiper	1
	5	30121.A0105	Tube Cap	1
	6	30121.A0106	Sleeve Seal	1
	7	30121.A0107	Sleeve	1
	8	30121.A0108	Sleeve '0' Ring	1
	9	30121.A0109	Backing Washer	1
	10	30121.A0110	Piston 'O' Ring	1
	11	30121.A0111	Piston Seal	1
	12	30121.A0112	Piston Head	1
	13	30161.A0102	Cylinder, Bosses & End Cap	1
	14	30121.A0114	Grub Screw	1
	15	30121.A0115	Spring Ring	1
		CSE 189	Seal Kit (Comprising items 4,6,8,10 & 11)	A/R

### HYDRAULIC RAM (HIGH DISCHARGE SKIP)



Item No.	Part No.	Description	Qty.
	30162.A01	Ram Assembly Complete	
		(Two per high discharge m/c's only)	
1	30162.A0101	Ram Body	1
2	30162.A0102	Grease Nipple	2
3	30162.A0103	Piston Rod Assembly	1
4	30162.A0104	Wiper	1
5	30162.A0105	Tube Cap	1
6	30162.A0106	Sleeve Seal	1
7	30162.A0107	Sleeve	1
8	30162.A0108	Sleeve "O" Ring	1
9	30162.A0109	Backing Washer	2
10	30162.A0110	Piston Seal	2
11	30162.A0111	Piston "O" Ring	1
12	30162.A0112	Piston Head	1
13	30162.A0113	Lock Nut	1
	CSE 190	Seal Kit (comprising items 4,6,8,10 & 11)	A/R



Item No.

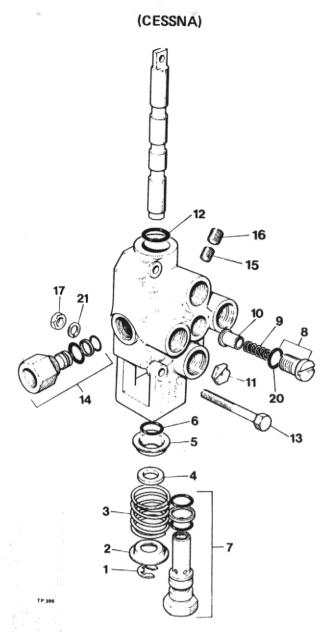
Part No.

Description

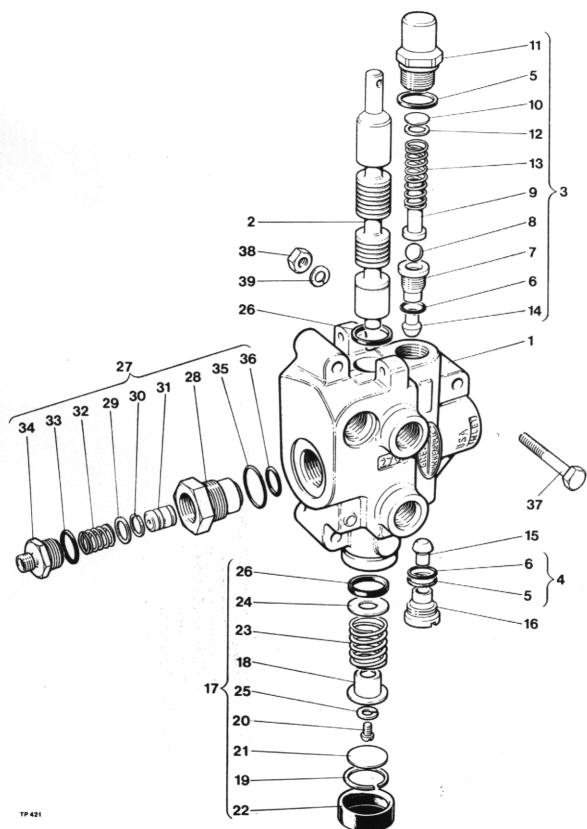
E,	30121.A01	Ram Complete (1 per Machine)
1	30121.A0101	Piston Road Fitting
2	30121.A0102	Locknut
3	30121.A0103	
4	30121.A0104	Wiper
5	30121.A0105	
6	30121.A0106	
7	30121.A0107	
8	30121.A0108	Sleeve '0' Ring
9	30121.A0109	Backing Washer
10	30121.A0110	Piston '0' Ring
11	30121.A0111	Piston Seal
12	30121.A0112	Piston Head
13	30121.A0113	Cylinder, Bosses & End Cap
14	30121.A0114	Grub Screw
15	30121.A0115	Spring Ring
	CSE 189	Seal Kit (comprising items 4,6,8,10 & 11)

Qty.

# HYDRAULIC CONTROL VALVE



Item No	. Part No.	Description	Qty.
	30057.A01	Control Valve Complete	1
1	30131.A0101	Clip Ring	1
2	30131.A0102	Shallow Washer	1
3	30131.A0103	Spool Spring	1
4	30131.A0104	Washer Spacer	1
5	30131.A0105	Deep Washer	1
6	30057.A0101	"O" Ring	1
7	30057.A0102	Relief Valve Assembly	1
8	30057.A0103	Lift Check Plug Assembly	1
9	30131.A0109	Lift Check Spring	1
10	30131.A0110	Lift Check Plunger	1
11	30131.A0111	Orifice Plate	1
12	30057.A0104	"O" Ring	1
13	6S.3H	Bolt 5/16" UNF x 2½" Long	2
14	30057.A0105	Pressure Beyond Plug	1
15	30131.A0116	Plug 1/16"	1
16	30131.A0117	Plug 1/8"	1
17	9S.2	Nut 5/16" UNF	1
18	30057.A0106	Seal Repair Kit (Relief Valve)	A/R
19	30057.A0107	Seal Repair Kit	A/R
20	30131.A0118	"O" Ring	1
21	41S.4	Spring Washer 5/16" Dia	2

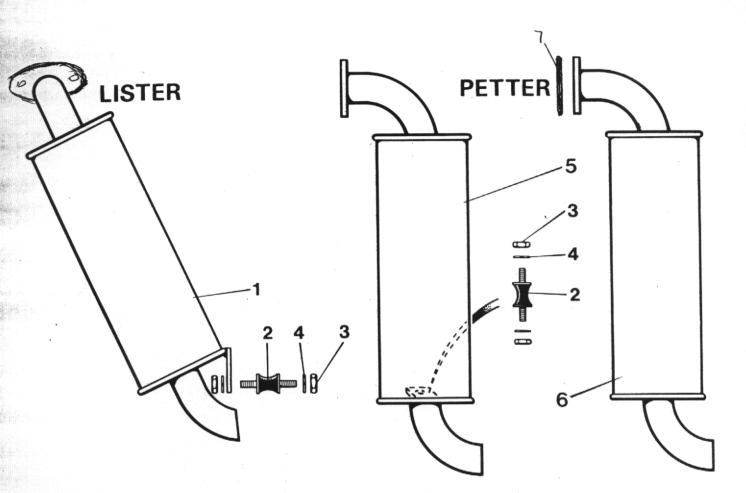


# HYDRAULIC CONTROL VALVE

Item No.	Part No.	Description	Qty.
	30180.A01	Control Valve (Complete)	1
1		Housing Not supplied as spares	- 1
2		Spool - 4 Way - 3 Position Order Complete Valve	1
3	30180.A0101	Relief Valve Assembly (comp. items 5-14 inc.)	1
4	30180.A0102	Seal Kit (comp. items 5 & 6)	A/R
5		Gasket - Relief Body} "O" Ring - Relief Valve Seat	2
6		"O" Ring - Relief Valve Seat	2
7	30180.A0112	Seat - Relief Valve	1
8	30180.A0138	BallBall	1
9	30180.A0105	Guide - Spring	1
10	30180.A0106	Shim	A/R
11	30180.A0107	Body	1
12	30180.A0108	Washer - Spacer	1
13	30180.A0109	Spring	1
14	30180.A0110	Poppet - Check	1
	30180.A0111	Plug Assembly (comp. Items 5,6,15&16)	1
15	30180.A0110	Poppet	1
16	30180.A0114	Guide - Poppet	1
17	30180.A0115	Positioner Assembly - Spring Return to Neutral	
		(comp. items 18-26 inc.)	1
18	30180.A0116	Collar - Stop	1
19	30180.A0117	Ring - Retaining	1
20	30180.A0118	Screw	1
21	30180.A0119	Disc - Stop	1
22	30180.A0120	Bonnet - Rubber	1
23	30180.A0121	Spring - Centring, Standard	1
24	30180.A0122	Washer - Stop	1
25	30180.A0123	Lockwasher	1
26	30180.A0124	Seal	2
27	30180.A0125	Flow Control Valve Assy. (comp. items 28-36 inc.)	1
28	30180.A0126	Sleeve	1
29	30180.A0127	Washer	1
30	30180.A0128	Ring - Retaining	1
31	30180.A0129	Piston	1
32	30180.A0130	Spring	1
33	30180.A0131	Seal - "O" Ring	1
34	30180.A0132	Union	1
35	30180.A0133	Seal "O" Ring	1
36	30180.A0134	Seal "O" Ring	1
37	8S.4R	Bolt - Hex. Hd. M10 x 120 Long	3
38	7S.4	Nut M10	3
39	175.5	Washer - Spring M10	3

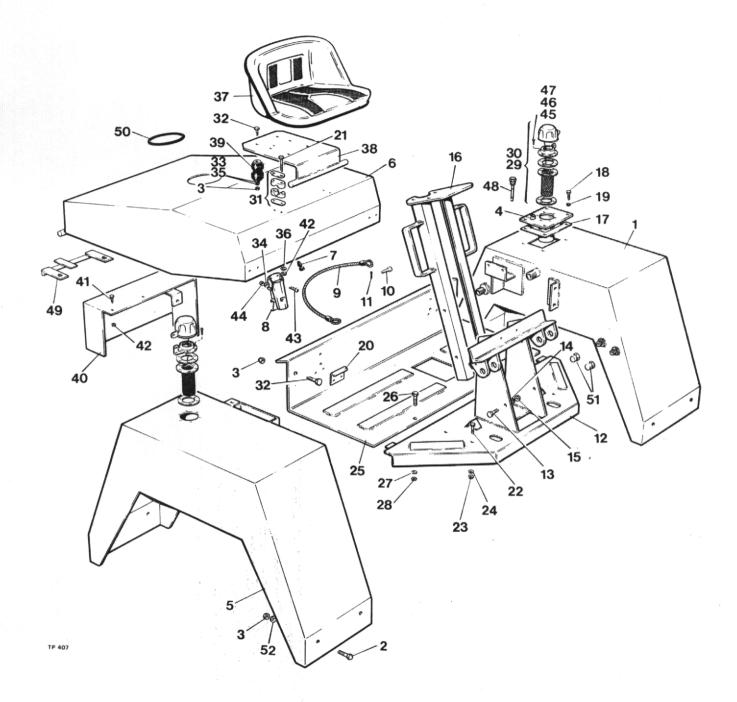
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Item No.	Part No.	Description	Qty.
1	30154.A01	Exhaust (Lister)	1
$\sim$ $2$	10371.A01	Rubber Mounting	
3	61S.3	Nut M8	
4	12S.3	Washer 8mm Dia	
5	30154.A02	Exhaust (Petter) - (EARLY TYPE FITTING)	1
6	30154.A05	Exhaust (Petter) - (NOW REPLACES ITEM 5)	1
7.	10293.A02	li u	· · · · ·

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MUDWINGS AND COVERS

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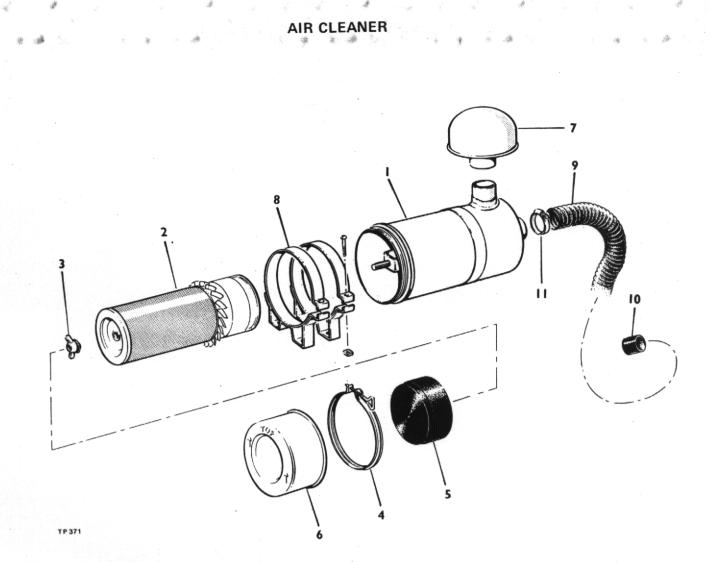
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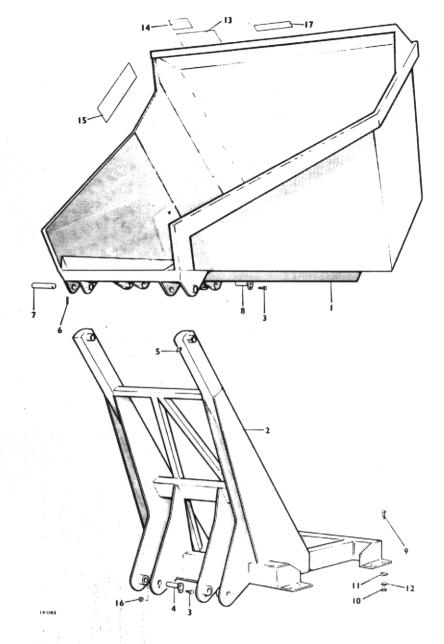
			e de la companya de la	
	Item No.	Part No.	Description	Qty.
	1	40074.A0 <b>X</b> 4	L.H. Mudwing & Hydraulic Tank	1
	2	11S.4C	Setscrew Hex. Hd. M10 x 25 Long	12
	3	61S.4	Selflock Nuts M10	14
and the second second	4	20098.A03	Tank Filler Assembly Mounting Plate	1
	5	40073.A03	R.H. Mudwing & Fuel Tank	1
	6	40094.A05	Engine Cover (Non Elec. Start M/c's.)	1
		40094.A06	Engine Cover (Electric Start M/C's.)	1
	7	10554.A01	Rubber Buffers	4
	8	10537.A02	Toggle Fasteners	2
	9	10366.A01	Engine Cover Strap	1
	10	10650.A19	Clevis Pin	1
	11	44S.2C	Split Pin 3/32" x 1" Long	1
	12	40096.A01	Foot Pedal Assembly Mounting Bracket	1
	13	8S.4A	Bolts Hex. Hd. M10 x 25 Long	4
	14	175.5	Spring Washer M10	4
	15	75.4	Nut Hex. M10	4
	16	30125.A01	Steering Column	1
	17	5ST.18B	Gasket	1 4
	18	11S.3B	Setscrew Hex. Hd. M8 x 20 Long	4
	19	175.4	Spring Washer M8 Catch Plate	2
	20	10538.A02 8S.2F	Bolt Hex. Hd. M6 x 50 Long	4
	21 22	11S.4D	Setscrew Hex. Hd. M10 x 30 Long	4
	22	7S.4	Nut M10	4
	23	175.5	Spring Washer M10	4
	24	40121.A02	Floor Panel	1
	26	85.3A	Bolt Hex. Hd. M8 x 25 Long	2
	27	128.3	Plain Washer M8	2
	28	615.3	Nut Self Locking M8	2
	29	10565.A01	Filler Cap Assembly	2
		10565.A0101	Sealing Washer (Not illustrated)	2
	30	10565.A02	Breather Filler Cap (Alternative)	2
	31	10364.A01 2	Pivot Block	2
	32	8S.4A	Bolt Hex. Hd. M10 x 25 Long	6
	33	125.5	Washer M10	16
	34	125.1	Washer 5mm	8
	35	C180B	Washer 3/8"	2
	36	12S.2	Washer M6	4
	37	4-35-301	Seat c/w Bolts and Washers	1
	38	30148.A01	Seat Frame	1
	39	10519.A01	Rubber Spring	2
	40	20113.A03	Dynamo Belt Guard (Lister only)	1
	41	11S.2B	Setscrew Hex. Hd. M6 x 20 Long (Lister only)	2
	42	61S.2	Selflock Nut M6 (Petter) (Qty. 6 off Lister)	4
	43	82S.3C	Screw Rd. Hd. Slotted 2BA x <sup>1</sup> / <sub>2</sub> " Long	8
	44	855.1	Selflocking Nut 2BA	8
	45	82S.3E	Round Hd. Screw 2BA x <sup>3</sup> / <sub>4</sub> " Long	
	46	855.1	Self Locking Nut 2BA	
	47	12S.1	Plain Washer M5	
	48	10632.A01	Dipstick	
	49	10560.A01	Engine Cover Strap Retainer (Petter only)	
	50	10566.A01	Grommet	1
	51	120S.1A	Blanking Cap - Hydraulic Tank	
9	52	12S.20	Plain Washer 10 mm dia	8

AIR CLEANER R -TP 372

Item No.	Part No.	Description	Qty
1	10532.A01	Air Cleaner Assembly complete	1
2	10534.A01	Stack Cap	1
3	10533.A01	Mounting Bands	2
4	10532.A0101	Element Assembly	-
5	10319.A02	Hose (Petter)	1
	10319.A03	Hose (Lister)	1
6	975.15	Hose Clip (Petter)	1
	97S.12	Hose Clip (Lister)	1
7	8S.3A	Setscrew Hex. Hd. M8 x 25 Long	4
8	61S.3	Nut M8	4
9	125.3	Washer M8	4
10	10320.A01	Pipe Adaptor	1



Item No.	Part No.	Description	Qty.
	10532.A02	Air Cleaner complete (items 1-6)	1
1	10532.A0201	Body Assembly	1
2	10532.A0101	Element Assembly	
3	10532.A0202	Nut and Gasket	
4	10532.A0203	Clamp Assembly	1
5	10532.A0204	Skirt, Baffle	
6	10532.A0205	Cup Assembly	1
7	10534.A02	Stck Cap	1
8	10533.A02	Mounting Bracket	2
9	10319.A02	Hose (Petter)	
	10319.A03	Hose (Lister)	1
10	10320.A01	Pipe Adaptor	. 1
11	97S.15	Hose Clip (Petter)	
	97S.12	Hose Clip (Lister)	1



Description

Part No.

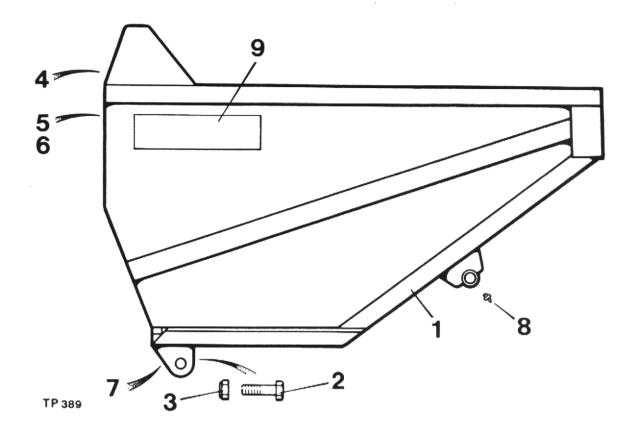
Qty.

1	4-35-210	Skip 1	
2	4-35-323	Frame 1	
3	8S.3A	Bolt M8 x 25mm Long 4	
4	4-35-226	Lower Ram Pin 2	
5	5ST 100	Grease Nipple 2	
6	4-35-29A	Tension Pin 5/16" dia. x 22" Long 2	
7	5ST 84	Skip Pivot Pin 2	i
8	4-35-178	Ram Pin 2	
9	8S.5E	Bolt Hex.Hd. M12 x 45 Long 8	
10	75.6	Locknut M12 8	
11	1058.5	Taper Washer M12 8	
12	125.6	Plain Washer M12 8	
13	20132.A01	Label "Dumper Safety" 1	
14	DM 157	Label "Unpropped Skip" 1	
15	DM 154	Label "Winget" 1	
16	75.3	Nut M8 4	
17	10541.A01	Label "Payload" 1	

- Andrewski -

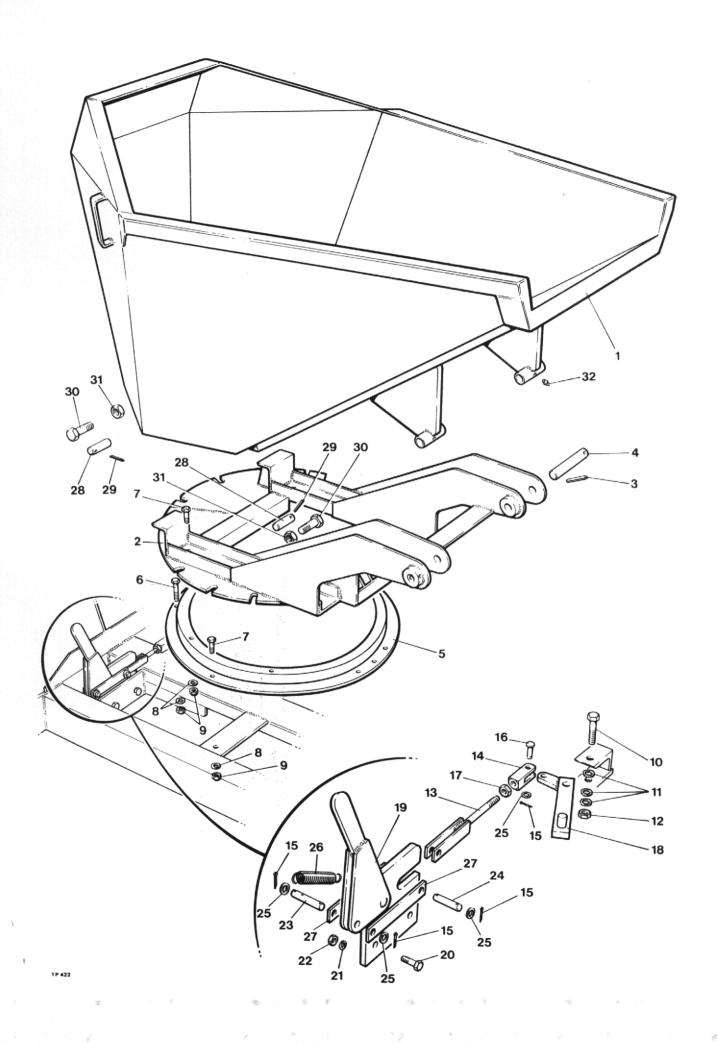
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Item No.	Part No.	Description	Qty.
1 2 3 4 5 6 7	40089.A 435 110A 435 110B 10541.A02 20132.A01 DM 196 DM 157	Skip Skip Ram Bolts Skip Ram Nuts Label - "Payload" Label - "Dumper Safety & Instruction" Label - "Lubrication" (Newage Axle) Label - "Unpropped Skip"	1 2 2 1 1 1 1
8	131S.3 DM 154	Grease Nipple Label - "Winget"	2
-		Laber winger	2

Note: Separate skip panels can be supplied - Details on application.



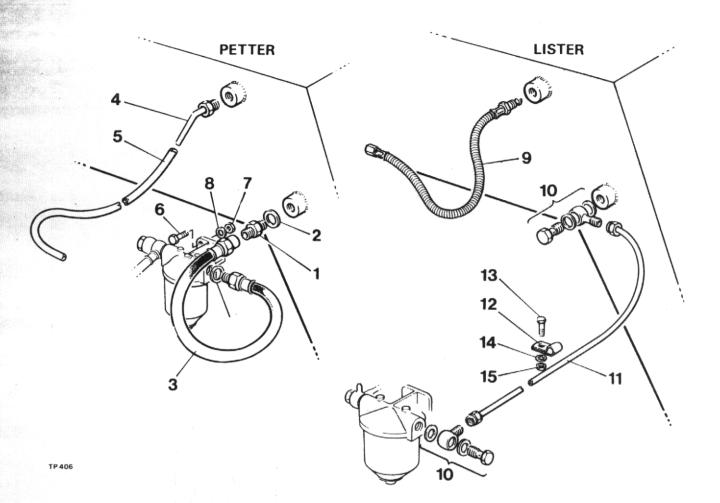
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Item	No.	Part No.	Description	Qty
1		40115.A01	Rotating Skip	1
2		40116.A01	Rotating Skip Frame	1
3		54S.8S	Pin - Slotted Tubular	2
4		10522.A01	Pin - Pivot	2
5		ASE 197	Ring-Turntable	1
6		8S.5M	Bolt - Hex. Hd. M12 x 80 Long	2
7		8S.5D	Bolt - Hex. Hd. M12 x 40 Long	7
8		125.6	Washer - Plain	9
9		615.5	Nut - Self Locking - 'Binx' M12	9
10		85.6L	Bolt - Hex. Hd. M16 x 75 Long	1
11		125.22	Washer - Plain	3
12		615.6 385 DA7	Nut - Self Locking - 'Binx' M16	1
13		10651-401	Rod	1
14	•	С174-Н	Clevis End	1
15		44S.3C	Pin - Split 1/8" dia. x 1" Long	5
16		10650.A04	Pin - Clevis	1
17		2S.5	Nut - Hex. Full 1/2" BSF	1
18		10649.A01	Catch	1
19		20214.A01	Lever & Bracket (complete)	1
20		8S.5C	Bolt - Hex. Hd. M12 x 35 Long	2
21		125.6	Washer - Plain	2
22		61S.5	Nut - Self Locking - 'Binx' M12	2
23		2ST-114	Pin	1
24		2ST-115	Pin	1
25		10S.4	Washer - Plain	5
26		C173B	Spring	1
27		2ST-112-5	Link	2
28		10739.A02	Pin - Cylinder Pivot (when fitted)	4
29		54S.7P	Pin - Slotted Tubular (when fitted)	4
30		4/35-110	Bolt-(Skip Ram) Hex. Hd. (when fitted)	4
31		74S.10	Nut - Half (Skip Ram) (when fitted)	4
32		131S.3	Grease Nipple	2

Note: Separate skip panels can be supplied - Details on application.

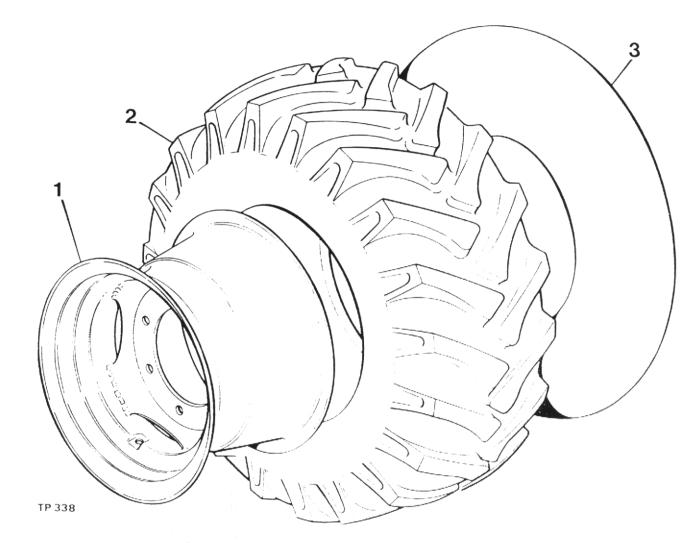
FUEL SYSTEM



Item	No.	Part No.		Description	Qty.
1		4-60-189	*	Stud Coupling - Flexible Pipe to Tank	1
2		4-35-364	*	Washer - Flexible Pipe to Tank	1
3		10605.A01	*	Flexible Pipe - Tank to Filter	1
4		10576.A01	*	Union - Bleed off Tube to Tank	1
5		295.8	*	Bleed off Tube 30" Long	1
6		11S.2B	*	Setscrew Hex. Hd. M6 x 20 Lg., Filter to Tank	2
7		725.2	*	Nut M6 - Filter to Tank	2
8		125.2	*	Washer - Plain M6 dia., Filter to Tank	2
9		10357.A04	+	Leak Back Flexible Pipe	1
10		1175.2	+	Banjo Coupling Assembly	2
11		295.5	+	Pipe - Tank to Filter	1
12		10350.A01	+	Pipe Clip	1
13		64S.3	+	Setscrew Hex. Hd. M6 x 25 Lg	1
14		135.2	+	Washer - Shakeproof M6	1
15		658.2	+	Nut Hex M6	1

\* Petter Engines + Lister Engines

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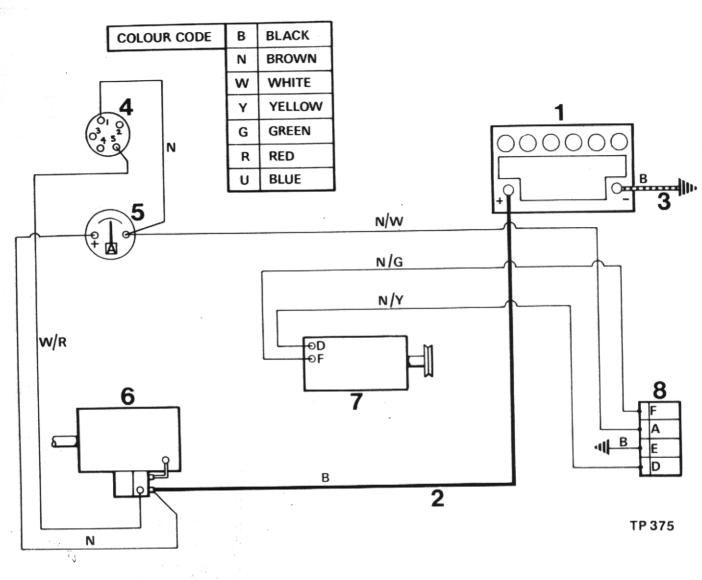
#### WHEELS AND TYRES

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Item No.	Part No.	Description	Qty.
	24S05 24S06	L/H Wheel Assembly	2
1	20131A02	R/H Wheel Assembly Wheel rim 9 x 15	2
2	20S13	Tyre 11.5/80X15.3 8 ply	4
3	23S08	Tube 11.5 x 15	4

### WIRING DIAGRAM (ELECTRICAL SYSTEM)

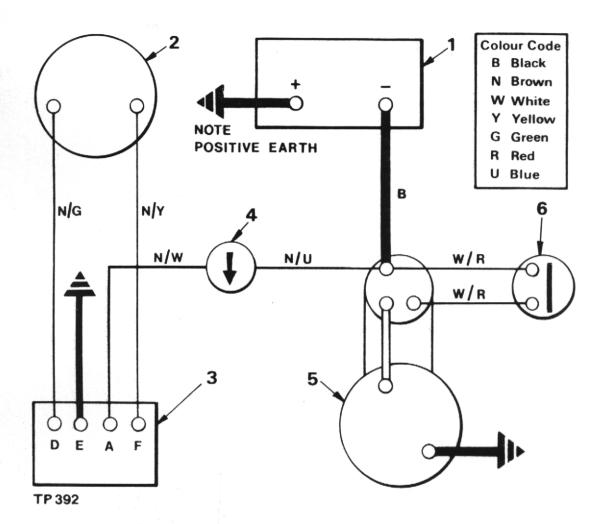
(LISTER)



Item No.	Part No.	Description	Qty.
1	109S.1 109S.3	Battery Battery (Alternative)	1 1
2	10227.A01	Positive Cable c/w End Fittings	1
3	10228.A01	Negative Cable c/w End Fittings	1
4	10614.A02	Switch c/w Keys	1
5	10612.A02	Ammeter	1
6	10613.A02	Starter Motor & Solenoid	1
7	10610.A02	Generator	1
8	10611.A02	Regulator	1
9	20105.A01	Wiring Harness Complete (Not Illustrated)	1
10	FSE 448	Adhesive Clip (Large) (Not Illustrated)	A/R
11	FSE 449	Adhesive Clip (Small) (Not Illustrated)	A/R

#### WIRING DIAGRAM (ELECTRICAL SYSTEM)

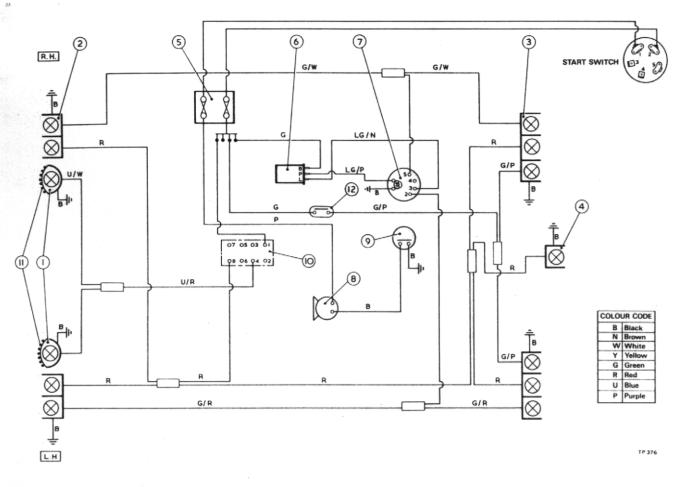
PETTER



Item No.	Part No.	Description	Qty.
	109S.1	Battery	. 1
1	1095.3	Battery (Alternative)	. 1
2	10610.A01	Dynamo	
3	10611.A02	Regulator	
4	10612.A02	Ammeter	
5	10613.A01	Starter c/w Solenoid	
6	10614.A01	Starter Switch	. 1
	201105.A02	Wiring Harness (Not illustrated)	

#### WIRING DIAGRAM (FULL ROAD LIGHTING KIT)

(PETTER & LISTER)

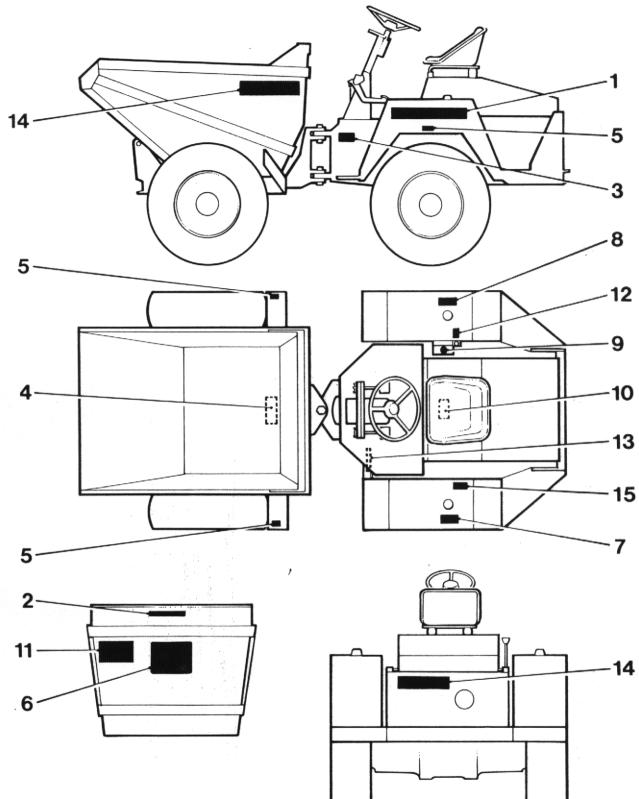


Item No.	Part No.	Description	Qty.
reem nor			
1	20013.A0112	Headlight	2
2	FSE 333	Sidelight/Indicator	2
	82S.3E	Screw 2BA x 3/4" Long	8
	85S.1	Nut, Self Locking 2BA	8
	12S.1	Washer	8
3	FSE 334	Rear Light/Indicator	2
	ESE 176	Rear Light Cowl Assembly	1
	82S.3E	Screw 2BA x 3/4" Long	8
	85S.1	Nut, Self Locking 2BA	8
	12S.1	Washer	8
4	10615.A01	Number Plate Light	1
5	10644.A01	Fuse Box	1
6	10616.A01	Flasher Unit	1
	82S.3C	Screw 2BA x ½" Long	1
	85S.1	Nut, Self Locking 2BA	1
	12S.1	Washer	1
7	10617.A01	Indicator Switch	1
	82S.7C	Screw 6BA x 2" Long	2
	85S.3	Nut, Self Locking 6BA	2
8	10618.A01	Horn complete with Bracket	1
9	10619.A01	Horn Button	1
	82S.7E	Screw 6BA x 3/4" Long	2
	855.3	Nut, Self Locking 6BA	2
10	10620.A01	Light Switch	1
11	10216.A01	Stone Guard	2
12	10744.A01	Brake Switch	1

# OPTIONAL EXTRAS

NEGERICANS ELECTRONIC 100

Item No.	Part No.	Description	Qty.
1	ESE.179-4 =	Battery Tie Rods	2
2	7S.2	Nuts M.6	8
3	ESE.178	Battery Clamp	1
4	30122.A01	Engine Cover Assembly	1 1
5	10447.A02	Instrument Panel	1
6	61.59	Nut 'Binx' M.4	4
7	10371.A02	Flexible Mounting	4
8	20139.A01	Battery Cover Plate	1
9	4-60-233-1	Label 'Negative Earth'	1
10	1095.1	Battery	1
11	10227.A01	Battery Cable (Positive)	1
12	10228.A01	Battery Cable (Negative)	1
13	10606.A01	Wheel Brace	1
14	10608.A01	Mirror Support Bracket	1
15	CSE.200	Horn	1
16	10607.A01	Licence Holder	1
17	30164.A01	Reversing Siren	1
18	10203.A02	Rear View Mirror	1



TP 408

LABELS

Item No.	Part No.	Description				
1	20128.A06 😑	M/C Identification & Payload Label	2			
2	10541.A03 🖵	Payload Label	1			
3	DM 198	Steering Lock Warning	2			
4	DM 157	Warning Label (Unpropped Skip)	1			
5	10540.A02	Tyre Pressure Label (35 p.s.i.)	4			
6	20132.A02	Dumper Safety & Instruction Label	1			
7	10546.A01	Diesel Fuel Label	1			
8	10546.A02	Hyd. Oil Only Label	1			
9	10284.A01	Dumper Return Label	1			
10	10536.A01	Warning Label (Unpropped Cover)	1			
11	DM 196	Lubrication Label (Newage Axles)	1			
12	ESE 236	Engine 'Stop' Label	1			
13	4-60-233-2	Positive Earth Label (Elec. M/c's only)(Petter)	1			
	4-60-233-1	Negative Earth Label (Elec. M/c's only)(Lister)	1			
14	DM 154	Winget Label	3			
15	10215.A02	Filter Instruction Label	1			

Inches				Milli-	Jac.	Milli-		
Fractions Dec			Decimals	metres		Fractions	Decimals	metres
1/64				0.397	33/64 -		0.515625	13.097
	1/32 —			0.794		17/32	0.53125	13.494
3/64				1.191	35/64		0.546875	13.891
		1/16 —	0.0625	1.588	1.18	9/1	16 - 0.5625	14.288
5/64			0.078125	1.984	37/64 ·		0.578125	14.684
			0.09375	2.381		19/32	0.59375	15.081
7/64			0.109375	2.778	39/64		0.609375	15.478
		1/8 -	0.125	3.175		5/	8 0.625	15.875
9/64			0.140625	3.572	41/64 •	• • • • • • • • • • • • • • • • • • •	0.640625	16.272
	5/32 -			3.969		21/32	0.65625	16.669
11/64	T BERLEY		0.171875	4.366	43/64		0.671875	17.066
		3/16 -	0.1875	4.763		11/	16-0.6875	17.463
13/64			0.203125	5.159	45/64		0.703125	17.859
	7/32			5.556		23/32	0.71875	18.256
15/64			0.234375	5.953	47/64 -		0.734375	18.653
		1/4 -	0.250	6.350		3/	4 - 0 750	19.050
17/64			0.265625	6.747	49/64 •		0.765625	19.447
	9/32			7.144			0.78125	19.844
9/64 -			0.296875	7.541	51/64 -	A CARLES AND	0.796875	20,241
		5/16 -	0.3125	7.938		13/	16-0.8125	20.638
21/64 -			0.328125	8.334	53/64 -		0.828125	21.034
	11/32			8.731			0.84375	21.431
23/64			0.359375	9,128	55/64 -			21.828
		3/8 -	0.375	9.525		7/	8 - 0.875	22.225
25/64 -			0.390625	9.922	57/64 -		0.890625	22.622
	13/32 -			10.319			0.90625	23.019
27/64 -				10.716	59/64 -		0.921875	23.416
		7/16 -	이 맛 알 것을 잘 못 못 봐요. 전 것을 많은 것 같아?	11.113				23.813
29/64 -				11.509	61/64 -		16 - 0.9375 - 0.953125	24.209
	15/32 -			11.906			0.96875	24.606
31/64 -				12.303	63/64 -			25.003
		1/2 -		12,700			1.000	25.400

## DECIMAL, FRACTIONAL AND METRIC EQUIVALENTS

#### INCHES INTO MILLIMETRES

Inches	0	1	2	3	4	5	6	7	8	9
0	0	25.40	50.80	76.20	101.60	127.00	152.40	177.80	203.20	228.60
10	254.00	279.40	304.80	330.20	355.60	381.00	406.40	431.80	457.20	482.60
20	508.00	533.40	558.80	584.20	609.60	635.00	660.40	685.80	711.20	736.60
30	762.00	787.40	812.80	838.20	863.60	889.00	914.40	939.80	965.20	990.60
40	1016.00	1041.40	1066.80	1092.20	1117.60	1143.00	1168.40	1193.80	1219.20	1244.60
50	1270.00	1295.40	1320.80	1346.20	1371.60	1397.00	1422.40	1447.80	1473.20	1498.60
60	1524.00	1549.40	1574.80	1600.20	1625.60	1651.00	1678.40	1701.80	1727.20	1752.60
70	1778.00	1803.40	1828.80	1854.20	1879.60	1905.00	1930.40	1955.80	1981.20	2006.60
80	2032.00	2057.40	2082.80	2108.20	2133.60	2159.00	2184.40	2209.80	2235.20	2260.00
90	2286.00	2311.40	2336.80	2362.20	2387.60	2413.00	-2438.40	2463.80	2489.20	2514.61

Use in conjunction with above table.

Example: Find equivalent mm. for 84 5/8". 84'' = 2133.60 mm.

5/8" = 15.875 mm.

84 5/8" = 2149.475 mm.

# CALIFORNIA

**Proposition 65 Warning** 

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm