

OPERATING INSTRUCTIONS & SPARE PARTS LIST

F15 FORKLIFT (CAPACITY 1.5 TONNE)

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INTRODUCTION

This Parts & Operators Manual is a re-print of the manual last published in 1981 and contains some amended part numbers.

Health & Safety legislation and working practices applicable to Forklift Trucks, both 2 and 4 wheel Drive, Rigid Chassis and Articulated Chassis have changed considerably in the years since this manual was last published. We would recommend that only trained operators who are in possession of the relevant certification issued by a recognised Training Authority be allowed to operate this equipment.

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

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

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

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FOREWORD

This Handbook provides an introduction to your Dumper together with information on the care and periodic maintenance required. Please note that references to right or left-hand in this Handbook are made when viewing the machine from the rear.

SAFETY PRECAUTIONS

To try and minimise the number of accidents that occur in connection with the construction industry, we have listed a number of safety precautions in the "Dumper Safety" section, that relate to the safe use of Dumpers. Before using your machine please read these precautions and adhere to them at all times.

SPECIFICATION

The policy of the manufacturers is one of constant product improvement and they reserve the right to vary their specifications with or without notice and at such times and in such manner as they think fit.

Whilst every effort is made to ensure the accuracy of the particulars contained in this handbook, neither the Manufacturer nor the Distributor by whom this Handbook, is supplied, shall in any circumstances be held liable for any inaccuracy or the consequences thereof.

WARRANTY

Claims for the replacement of parts under warranty must be submitted to the supplying Distributor, informing them of the customer's name and address. Except in cases of emergency, warranty work should always be carried out by an appointed Distributor.

REPAIRS AND SERVICE

Your Distributor is provided with the latest information concerning special tools and workshop techniques. This enables him to undertake your service and repair in the most efficient and economic manner.

PARTS

Recommended parts are designed for your Dumper and have the full backing of the Warranty. Only when recommended parts are used can responsibility by considered under the terms of the Warranty.

WHEN ORDERING PARTS PLEASE STATE:

- (a) MACHINE AND (IF APPLICABLE) MAJOR ASSEMBLY SERIAL NUMBER.
- (b) PART NUMBER, DESCRIPTION AND QUANTITY OF PARTS REQUIRED.
- (c) IF YOU REQUIRE THE NUTS, BOLTS AND WASHERS ETC., NECESSARY TO FIT PARTS TO MACHINE.
- (d) FULL ADDRESS WHERE PARTS ARE TO BE SENT.

Parts may be obtained from WinGET Parts & Service Limited. If you telephone or telegraph, an official confirmation order must be sent by post immediately.

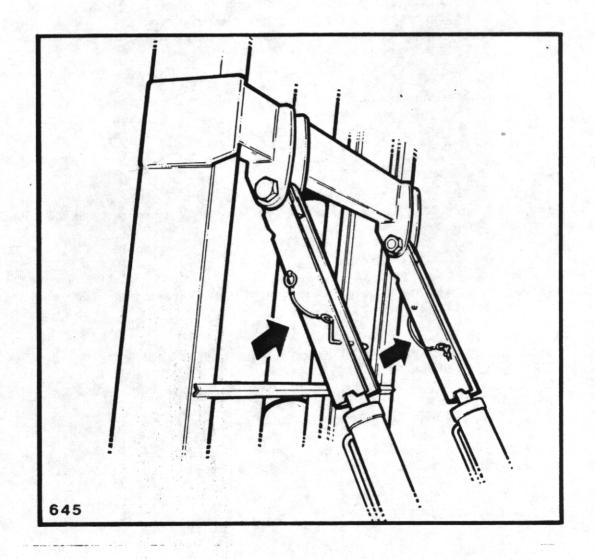
ENGINE PARTS MAY BE OBTAINED FROM THE ENGINE MANUFACTURERS, APPROVED AGENT OR

IDENTIFICATION

All major assemblies of the Dumper carry a serial number, which should be quoted, together with the total number of hours worked by the Dumper.

BEFORE THE MACHINE IS PUT INTO SERVICE, ENSURE THAT THE MAST TILT RAM STOPS ARE IN POSITION, AS SHOWN BELOW.

THE TILT RAM STOPS SHOULD ONLY BE MOVED FOR TRANSPORTATION PURPOSES.



PREPARATION FOR USE

Before the F. 15 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 (FITTED AT AN ANGLE TO IMPROVE GEAR CHANGE)

To establish correct oil level, remove both level plugs, fill through upper hole to level of bottom hole. Replace plugs.

DRIVE AXLES AND TRANSFER CASE.

Remove filler/level plugs, check oil level, top up if necessary.

FUEL TANK

Fill tank with diesel oil until approximately 15" from the top of the filler. NOTE: Never allow fuel level to fall below 3" deep in the bottom of the tank.

HYDRAULIC TANK

Fill the hydraulic tank to within 13" of the filler top. Before removing the cap, clean the surrounding area to prevent the possible entry of foreign matter.

BRAKE SYSTEM

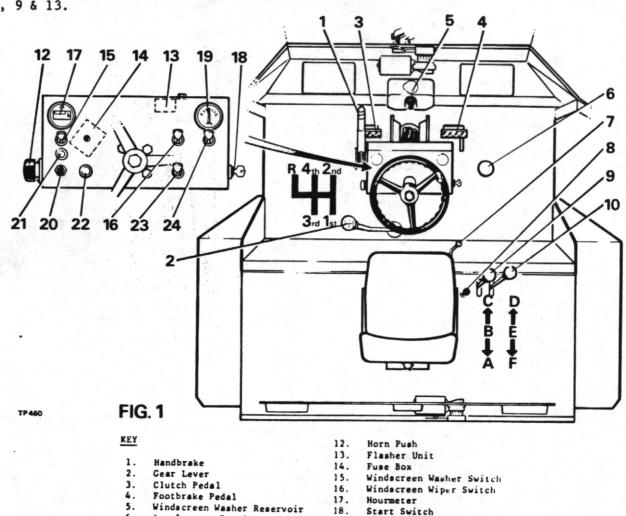
Ensure that both brake cylinder reservoirs are full of fluid. Top up if necessary to within 1/4" of the top of the reservoirs. NOTE only use hydraulic fluid'. (Do not use brake fluid).

MISCELLANEOUS

Check all wheel nuts for tightness.

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

N.B. FOR FURTHER INFORMATION ABOUT LUBRICATION AND RECOMMENDED OILS SEE PAGES 8, 9 & 13.



19.

20.

21.

22.

23.

24.

Ammeter

Indicator Switch

Indicator Function Light

Ignition Warning Light

Side & Head Light Switch

Working Lights Switch

Accelerator Pedal

8.

Seat Adjusting Lever

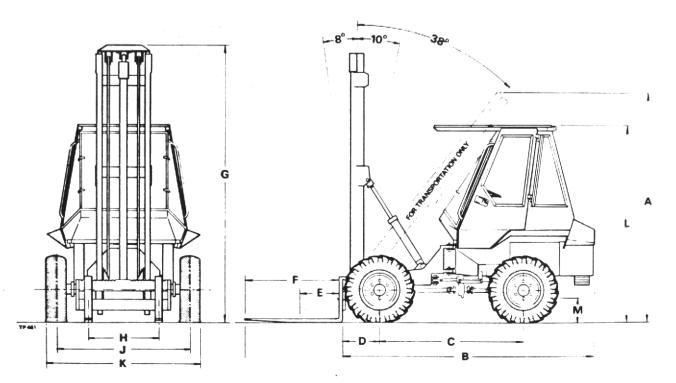
Engine Stop Control

Lift Control Lever

Tilt Control Lever

SPECIFICATION

Max Tot Tur Unl Hyd Rea	Overall height (Transportation position overall length (minus forks) Wheelbase Length from front axle to front of control of contro	10'- 7\frac{1}{2}" 6'- 1\frac{1}{2}" 1'- 6\frac{1}{2}" 1'- 6\frac{1}{2}" 1'- 7\frac{1}{2}" 4'- 0" 11'-11" Max 3'- 3" Min 5'" 6'- 7\frac{1}{2}" 8'-6,3/3 1'- 0" 26'- 0" 8004 lbs 2000 lb/in 220	(475mm) (500mm) (1220mm) (3630mm) (991mm) (130mm) (1733mm) (2025mm) 8"(2600mm) (305mm) (1500 Kg.) (1150 Kg.) (5486mm) (7925mm) (3630Kg) 2 (141Kg/cm ²)
Tyr	e Pressure		² (2.76 bar)
Tra Gea Hyd	acities:- nsfer Box 1 pt.(.57 litres) r Box 5 pts.(2.4 litres) raulic Tank10 gals.(45 litres) d Moment 11111 lb.ft.(15065 Nm)	Engine 13.2 pts. Fuel Tank 10 gals.	(4.6 litres) (7.5 litres) (45 litres)
Roa	d Speeds (Max.)	Engine Specification	
		0 f	
	m.p.h. k.p.h.		
2nd 3rd 4th	2.3 (3.70) 3.6 (5.80) 6.1 (9.80) 10.0 (16.00) 2.4 (3.90)	Lister ST3 S. & E. schedule No. 33 BHP @ 2600 R.P.M.	1637



OPERATING INSTRUCTIONS

ELECTRIC STARTING MACHINES

STARTING

1. Check that the Engine Stop Control knob is fully in.

2. Insert the starting 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.

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 allowing fuel tank to run dry, this will allow air into fuel lines and necessitate bleeding and priming system.
- Overload lever must be returned to the RUN position, abutting against the middle catch, when the engine starts. The machine must not be operated with lever in the START position.

GEAR CHANGING

The F15 is fitted with forward gears (1),(2),(3),(4) and one reverse gear (R),(See 'Layout of Controls'). When changing gear the clutch pedal is used in the normal manner.

HYDRAULIC CONTROLS

There are two functions on the standard machine; to raise and lower the fork carriage and to tilt the mast backward and forward.

Each lever is spring biased to the centre (hold position) and can be moved either side of this position (See Fig.1) the lift control lever (9) positions are UP (A), HOLD (B) and DOWN (C). The tilt control lever(10) positions are FORWARD (D), HOLD (E) and BACKWARD (F), when either lever is released it will automatically return to the HOLD position.

Each control lever may be used to vary the speed of the function by operating to allow partial opening of the valve; further control is available by varying the engine speed.

TRAVELLING WITH LOAD

The machine should NOT be driven with the load elevated, it should normally be carried with the forks at a height of approximately 400mm (16") and with the mast tilted back at 10°. If site or load conditions make this operation impossible and the load must be carried higher, the machine should be moved only with extreme caution.

MAINTENANCE

PERIODIC MAINTENANCE

DAILY (OR EVERY 10 HRS.)

Check engine oil level and fill to full mark on dipstick, if necessary. Fill fuel tank (more often if necessary), to approximately 12" from top.

WEEKLY (OR EVERY 50 HRS.)

Remove oil level plugs from drive axles, gearbox and transfer case. Oil level should be to bottom of holes. Top up, if necessary through filler/level plugs Check oil level in hydraulic tank. Check level only when forks are lowered. Always clean the surrounding area before removing the cap to prevent the possible entry of foreign matter. Fill tank if necessary, to within 1½" of the top.

Apply grease to all grease nipples.

Liberally apply grease between the outer and inner frames of the mast assembly. (For clarification see items A and B in Fig.6). Use Mobilgrease Special or Shell Alvania 2 with MoS.

Lubricate lift chains with aerosol lubricant-Acheson 'HI LOAD forklift chain lubricant' or equivalent.

Check tyre pressures - 401b./sq.in.

Check all wheel nuts and tighten, if necessary.

FREQUENTLY

Check all nuts and bolts and tighten if necessary.

NOTE: Rear Axle articulation points consist of bearings that require no lubrication.

FOR COMPLETE ENGINE MAINTENANCE INSTRUCTIONS REFER TO ENGINE MANUFACTURERS HANDBOOK.

LUBRICATION (See Fig. 3)

Period	Key	Description	Lubrication	No. of Points
DAILY	1	Engine	Engine Oil	1
0	1 2	Fuel Tank	Diesel Fuel	î
	3	Gearbox	Gearbox Oil	1
	4	Drive Axles	Axle Oil	2
	5	Hydraulic Tank	Hydraulic Fluid	1
	5a	Brake Reservoirs	Hydraulic Fluid	2
	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	Mast 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
A	14	Transfer Case	Axle Oil	1
	15	Mast Frame	Grease	
	16	Fork Carriage Chains	Chain Oil	
6 MONTHLY	17	Steering Column	Water Repellent Grease	1

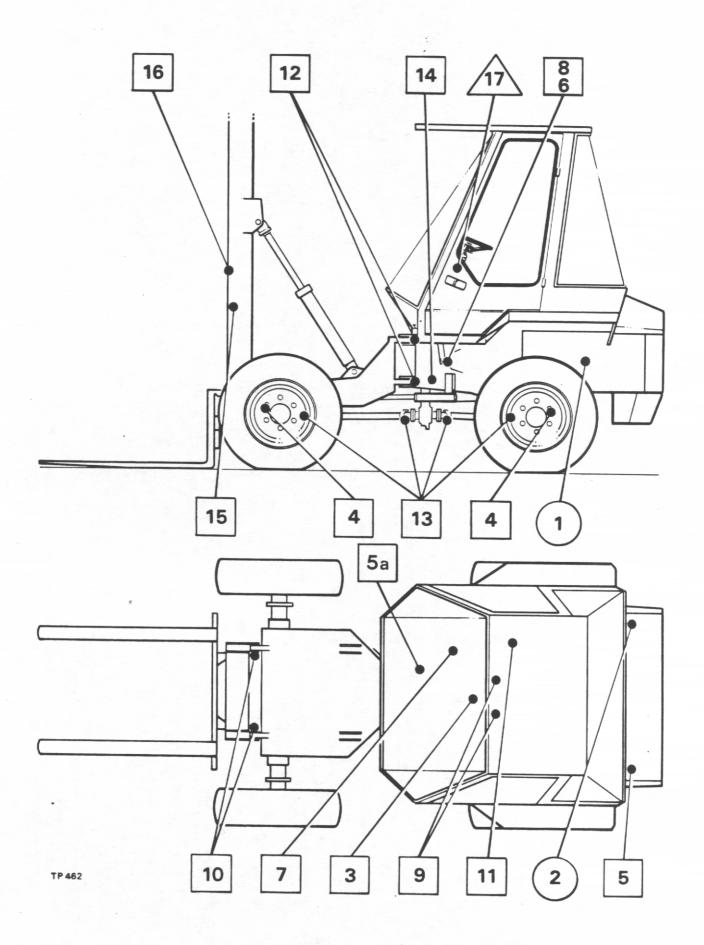


FIG. 3

BRAKE SYSTEM

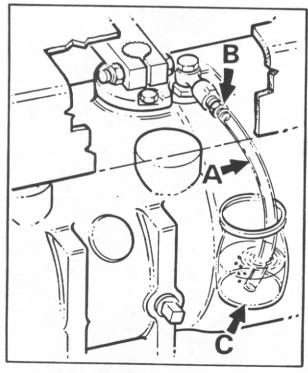
The brake system is designed to require the minimum of maintenance and no defects should normally occur. If air is present in the system, it will be indicated by sluggish response of the brakes and by spongy action of the brake pedal. This may be due to air being introduced at a loose joint. Any defects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

To bleed the system proceed as follows:-

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

DURING THE OPERATION IT IS ESSENTIAL THAT THE RESERVOIR LEVELS ARE KEPT TOPPED UP TO PREVENT FURTHER AIR BEING DRAWN INTO THE SYSTEM. USE ONLY HYDRAULIC FLUID IN THE BRAKE RESERVOIRS. DO NOT USE BRAKE FLUID.





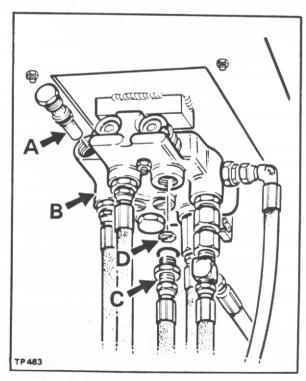


FIG. 5

HYDRAULIC SYSTEM

The system operates at a pressure of up to 2000 lbs./in.² and provides power for raising and lowering the load, tilting the mast and operating the steering. The steering circuit has priority flow, by splitting the pump output at the main hydraulic valve.

If the hydraulic system is generally sluggish or fails to operate:-

CHECK

1. HYDRAULIC OIL TANK

Remove filler cap and check that oil strainer is in place and that oil is visible within the strainer but not higher than $1\frac{1}{2}$ " from the filler neck. If necessary top up to $1\frac{1}{2}$ " from neck and check operation of system. If problem still exists check pressure.

2. PRESSURE

To check that maximum pressure can be developed fit a 2500 lbs/in² gauge at the base of the lift ram. Operate control lever and check pressure developed at full lift with relief valve 'blowing'. If pressure is substantially below 2000 lbs/in.² remove the relief valve cartridge (A) (hexagon head) from the bottom of the control valve (B). (See fig.5) and replace with a new cartridge. If problem still exists:-

Remove hose adaptor (C) from control valve (see fig.5) remove hexagonal orifice plate (D) and wash in white spirit. Dry using moisture free compressed air. DO NOT poke wire etc., into the orifice. Refit with slot of orifice plate outwards. If problem persists, contact Winget Agent. Periodically check the hose between the pump and the tank to ensure there is no deformation which could result in a restricted flow and damage to the pump.

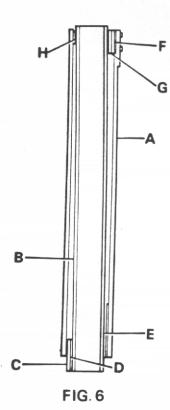
MAST MAINTENANCE

(See Fig. 6)

- PERIODICALLY adjust forklift chains to keep fork mounting frame level.
- 2. PERIODICALLY check shims between bottom wear strip (C) and inner frame assembly (B). When wear has occurred fit additional shims (D) as necessary to maintain about 1/16" clearance, at gap (E), when the mast is lowered check the gap through the full extension of the mast.

NOTE: With mast fully lowered the bottom wear strip is accessible beneath the machine frame.

3. PERIODICALLY fully raise the inner mast and check the wear strip and block on the channel, at the top of the outer frame (A). If wear has occurred, fit additional shims (F) as necessary behind the wearstrip mounting block assembly (G) to maintain 1/16" clearance at gap (H) when mast is lowered, check gap through full extension of mast.



RECOMMENDED TORQUE FIGURES FOR FASTENERS

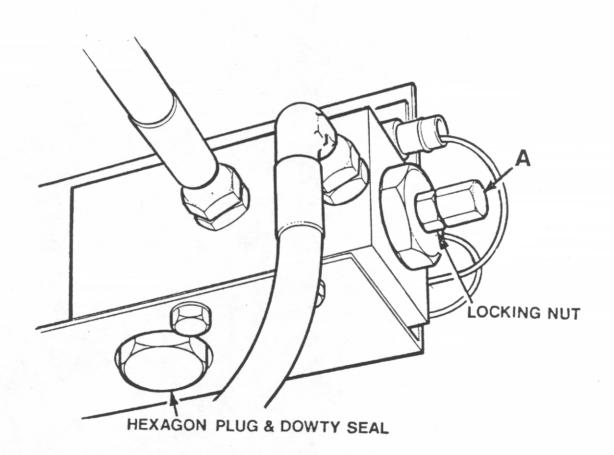
DESCRIPTION	TIGHTENING	TORQUE
	lb/ft.	Kg/m.
Prop-Shaft Bolts 3/8" UNF	29	(4.32)
Prop-Shaft Bolts 7/16" UNF	46	(6.85)
Engine Bolts/Nuts M12	72	(10.7)
Wheel Nuts 5/8" BSF	180	(25)
Wheel Nuts 7/8" BSF	300	(42)
Wheel Nuts M18	200	(28)
Axle Bolts/Nuts M16	180	(26.8)
Steer Ram Nuts/Bolts 1칯" UNF/BSF	1080	(161.0)

LOAD LIMITING DEVICE (DE-RATE SYSTEM)

PERIODICALLY OR AFTER ANY REPAIRS OR MAST RE-SHIMMING THE SETTING OF THE AUTOMATIC DERATE SYSTEM SHOULD BE CHECKED IN ACCORDANCE WITH THE FOLLOWING INSTRUCTIONS. DURING PART OF THE FOLLOWING PROCEDURE THE MACHINE WILL BE IN A SLIGHTLY OVERLOADED CONDITION THEREFORE THE PRECAUTION SHOULD BE TAKEN OF CHAINING THE REAR OF THE MACHINE (ON THE TOW HITCH) TO A FIXED POINT ON THE GROUND.

REMOVE THE HEXAGON PLUG AND DOWTY SEAL FROM THE PRESSURE REGULATOR AND FIT AT THAT POINT A PRESSURE GAUGE WITH A RANGE UP TO 2500 LB/IN² (170 BAR). PLACE THE 'DE-RATED' LOAD (1150 KG. [±] 10%) ON THE FORKS AND RAISE IT TO 5.5 M. CHECK THAT THERE ARE NO ABNORMALLY HIGH PRESSURE POINTS DURING THIS LIFT AND NOTE THE MAXIMUM READING. THE PRESSURE MAY RISE TOWARDS THE TOP OF THE LIFT BUT IT SHOULD BE AN EVEN PROGRESSION. IF HIGH PRESSURE POINTS INDICATE TIGHT SPOTS ON THE MAST THEN THESE MUST BE CORRECTED BEFORE PROCEEDING FURTHER.

IDENTIFY THE ADJUSTING SCREW A. ON THE REGULATING VALVE AND SLACKEN THE LOCKING NUT. LADEN WITH MAXIMUM RATED LOAD (1500 KG. ± 10%), RAISE THE FORKS TO JUST ABOVE THE CUT OFF POINT (SAY 3.8 M.) BY EITHER "DEFEATING" THE LIMIT SWITCH OR INCREASING THE SETTING OF THE ADJUSTING SCREW A. NOW ADJUST SCREW A. UNTIL THE MAXIMUM PRESSURE DURING LIFT IS THE MAXIMUM FOUND WITH THE DERATED LOAD DURING THE FIRST CHECK AND LOCK IT IN THAT POSITION. LOWER THE 1500 KG. LOAD AND CHECK THAT IT WILL THEN LIFT TO 3.6 M. MAXIMUM.



RECOMMENDED LUBRICATING OILS

TRANSFER BOX GEARBOX & OTHER GREASE POINTS	GEAR OIL GP 85W/140 ESSOLUBE HDX 30 BEACON 2	GEAR OIL GP 85W/140 GEAR OIL GP 85W/140 GEAR OIL GP 80W	DEUSOL EP 90 DEUSOL CRI 30 CASTROL SPHEEROL APT 2	DEUSOL GEAR EP 90 DEUSOL CRI 30 CASTROL DEUSOL GEAR EP 80 DEUSOL CRI 30 SPHEEROL APT 2	SPIRAX 90 EP ROTELLA SX OIL 30 RETINAX A	SPIRAX 140 EP SPIRAX 90 EP SPIRAX 80 EP	GEAR OIL SAE 90 EP VANELLUS M30 ENERGREASE L2	GEAR OIL SAE 140 EP 'VANELLUS M30 ENERGREASE L2 GEAR OIL SAE 80 EP	MOBILUBE HD 90 DELVAC 1230	MOBILUBE HD 140 MOBILUBE GX 140	MOBILUBE HD 90 MOBILUBE GX 90	MOBILUBE GX 80 DELVAC 1230	CENTURY EP 90 CENTURY ROIL 30 REGULUS A2	CENTURY EP 140 CENTURY EP 90 CENTURY ROIL 30 REGULUS A2
HAMWORTHY DRIVE AXLE	IL 2082 G	IL 2082 6	AGRICASTROL AS D	AGRICASTROL AS D AGRICASTROL MD D	DONAX T12 (INITIAL FILL) SI SPIRAX EP 80 (Top up only)	DONAX T12 (INITIAL FILL) SPIRAX EP 80 (Top up only) S.7224 (INITIAL FILL) SPIRAX HD 75 (Top up only)	B.P. HYDRAULIC TF-8 G	B.P. HYDRAULIC TF-8 G B.P. TRACTRAN (Top up only)	MOBIL FLUID 422 M		MOBIL FLUID 422 M	MOBIL FLUID 427 MC	CENTLUBE F.76 COMPOUND CE	CENTLUBE F.76 COMPOUND CE
NEWAGE DRIVE AXLE		TORQUE FLUID 62	AGRICASTROL AS	AGRICASTROL AS SPECIAL							MOBILFLUID 422			
ENGINE	ESSOLUBE HDX 20W	ESSOLUBE HDX 30 ESSOLUBE HDX 20W ESSOLUBE HDX 10W	DEUSOL CRI 20	DEUSOL CRI 30 DEUSOL CRI 20 DEUSOL CRI 10	ROTELLA SX OIL 20/20W	ROTELLA SX OIL 30 ROTELLA SX OIL 20/20W ROTELLA SX OIL 10W	VANELLUS M20W	VANELLUS M30 VANELLUS M10W	DELVAC 1220	DELVAC 1230	DELVAC 1220	DELVAC 1210 DELVAC SPECIAL 10W-30	CENTURY ROIL 20W 20	CENTURY ROIL 30 CENTURY ROIL 20W 20 CENTURY ROIL 10W
COMPANY	(U.K.) SUMMER	ABOVE 37°C 0°C - 37°C 0°C - 37°C 0°C - 37°C	(U.K.) SUMMER WINTER	ABOVE 32°C 0°C - 32°C (Oversee) BELOW 0°C	(U.K.) SUMMER WINTER	ABOVE 32°C 0°C – 32°C (Oversee) BELOW 0°C	(U.K.) SUMMER WINTER	ABOVE 32°C 0°C – 32°C BELOW 0°C	(U.K.) SUMMER WINTER	ABOVE 32°C	0°C - 32°C	(Oversees) BELOW 0°C ((U.K.) SUMMER O	ABOVE 32°C 0°C – 32°C BELOW 0°C

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

FORKLIFT SAFETY

- 1. Drivers should be aware of the load and stability limitations of the machine.
- 2. Drivers should be aware of the weight of the loads they are carrying and also of variations in those loads (e.g., wet or dry weight).
- 3. Drivers should take account of ground conditions which may affect stability.
- 4. Drivers must ensure that the intended load is in a safe condition to lift e.g., loose bricks, banded pallets etc.
- 5. Do not allow anyone to stand or pass under the elevated part of any machine, whether loaded or empty.
- 6. Do not carry passengers.
- 7. Always set parking brake when loading or unloading.
- 8. Maintain specified tyre pressure at all times. Do not alter tyre pressure to suit ground conditions.
- 9. Be sure of sufficient headroom under overhead installations; lights, pipes, wiring etc.
- 10. Travel with load or load engaging forks low and where possible, tilted back. Do not Elevate the load except during stacking. If load and/or site conditions make this impossible (e.g., wide load and ground level obstructions) the machine should be moved only with extreme caution.
- 11. Modifications and additions, which affect capacity and safe operation shall not be performed by the customer or user without the manufacturer's prior written approval.
- 12. Front end attachments other than those supplied as original equipment shall only be used with the manufacturer's prior written approval.
- 13. Never dismount while the machine is in motion.
- 14. Never start the engine from any position other than sitting in the driving seat. (Electric start only).
- 15. Never drive the machine too close to the edge of any excavation, especially if the ground is loose or wet.
- 16. Never make any adjustments to the machine while it is in motion.
- 17. Never run the engine in a closed building or allow the exhaust pipe near to inflammable material.
- 18. Never fill the fuel tank with the engine running. Exercise caution when the engine is hot.
- 19. Always keep the floor plates clean.

HEALTH & SAFETY

ASBESTOS BASED MATERIALS

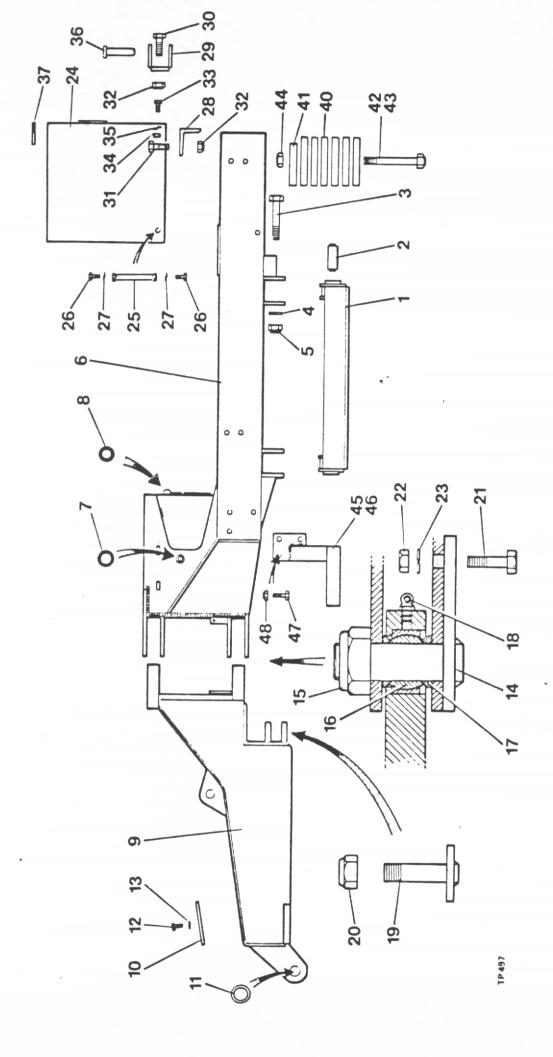
Equipment which includes friction materials will invariably contain asbestos, when removing friction material dust from components e.g., when servicing brakes or clutches, do not blow out with an air line, it could be harmful to inhale the dust. Remove dust with a vacuum cleaner or wipe clean with a damp rag.

CLUTCH HOUSINGS

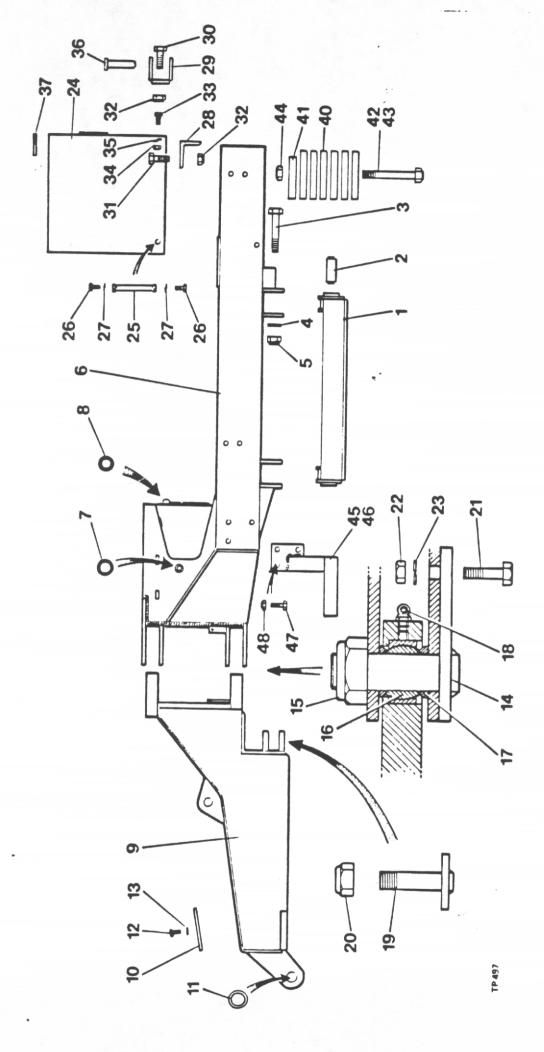
The accumulated dust found in clutch housings may contain lead/antimony. No food should be eaten at a work plate contaminated by this dust. Hands must be washed before eating. Do not blow out dust with an airline.

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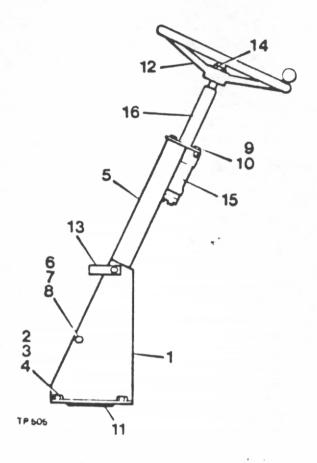


1623	• • • •	• • • • • • • • • • • • • • • • • • • •	ARTICULATING FRAME	1623
Item	No.	Part No.	Description	Qty.
1 2 3 4 5		30127.A02 10588.A01 8S.08S 12S.10 61S.08	Articulating Frame Pivot Bush Bolt - Hex. Hd. M24 x 130 Long Washer - M24 Nut - M24 Binx	1 2 2 2 2
1633			FRONT & REAR CHASSIS	1633
Item	No.	Part No.	Description	Qty.
6 7 8		40216.A03 43S.02 43S.03	Rear Chassis Bush (Clutch Pedal) Bush (Accelerator Pedal)	1 2 2
9 10 11 12 13		40205.A02 40205.A0115 4-35-29B 11s.03C 17s.04	Front Chassis Cover Plate Bush - Mast Pivot Screw - Hex. Hd. M8 x 25 Washer - Spring M8	1 1 2 3 3
		40054.A08 11S.05D 61S.05 12S.06	Transfer Case - Duplex (See separate section) Screw - Hex. Hd. M12 x 30 (T/Case Fixing) Nut - M12 Binx (T/Case Fixing) Washer - Flat M12 (T/Case Fixing)	1 4 4 4
1635			CENTRE PIVOT ASSY. & STEER RAM BOLT	1635
Item		Part No.	Description	Qty.
14 15 16 17 18 19 20 21		10375.A08 107S.11 4-60-214 10609.A02 131S.02 10599.A03 107S.10 11S.06G 7S.06	Bolt - Centre Pivot Nut - 1½" UNF 'Nyloc' Bearing Spacer Grease Nipple c/w Cap Bolt - Steer Ram 1½" Dia. x 140mm Nut - Nyloc 1½" UNF Screw - Hex. Hd. M16 x 45 Nut - Hex. M16	2 2 2 4 2 2 2 2 2
23		175.08	Washer - Spring M16	2



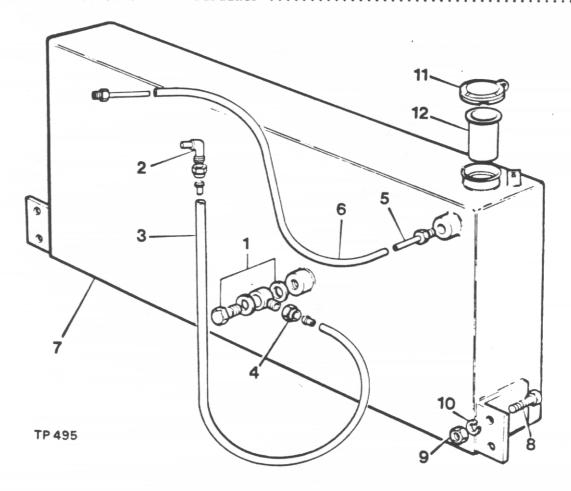
1723		BACK FRAME & TOW HITCH	1723
Item No.	Part No.	Description	Qty.
24	20266.A04	Back Frame Assy	
25	10836.A01	Spacer - Frame to Chassis	
26	11S.05C	Screws M12 v 25 - (Casser Fining)	2
27	175.06	Screws M12 x 25 - (Spacer Fixing)	4
28	20283.A01	Washers M.12 (Spacer Fixing)	4
29	10839.A01	Rear Frame Mounting Bracket	1
30	11S.07H	Tow Hitch Assy	1
31	115.07H	Screw Hex. Hd. M20 x 50 - Tow Hitch to Angle	2
32	61S.07	Screw Hex. Hd. M20 x 50 - Angle to Chassis	2
33		Nut M.20	4
34	11S.05C	Screw Hex. Hd. M12 x 25 - Frame to Angle	2
	61S.05	Nut M.12	2
35	17S.06	Washer M.12	2
36	ESE.222	Towing Pin	1
37	10852.A01	Pad (Eng. Cover to Frame)	2
1730 Item No. 38 39 40 41 42 43	Part No. 10808.A01 10815.A01 20255.A01 20255.A03 10799.A04	Description Front Ballast Ballast Support Rear Ballast weight Rear Ballast weight Bolt	Qty 2 6 1
44	1078.20	Nut Hex 1" UNF Nyloc	4
1731	• • • • • • • • • • • • • • • • • • • •	STEP ASSEMBLY	1731
Item No.	Part No.	Description	Qty.
45	30285.A01	Step Assembly R H	1
46.	30285.A02	Step Assembly R.H	1
47	11S.05D	Coron How Ud M12 - 20 (Chan Timing)	1
48	61S.05	Screw Hex. Hd. M12 x 30 (Step Fixing)	6
-, 0	019.00	Nut M12 Binx	6

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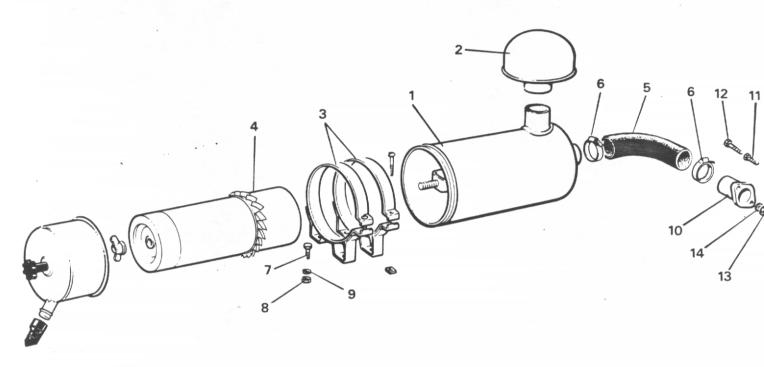


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Item No.	Part No.	Description	Qty.
1 2 3 4	30184.A03 11S.04E 11S.04C 7S.04 17S.05	Mounting Plate Assembly	1 2 2 4 4
5 6 7 8 9 10 11 12 13 14 15	30125.A04 11S.04C 7S.04 17S.05 CSE 182 66S.03C 4-35-375 FSE 279 20272.A01 FSE 377	Steering Column Assembly Screw - Hex. Hd. M10 x 25 (Stg. Col. Fixing) Nuts - M10 (Stg. Col. Fixing) Washer - Spring M10 Spacer Bolt - Hex. Hd. 3/8" UNC x 1½") Fixing Grommet Steering Wheel Bracket - Brake Reservoir Dome Nut Steering Valve) See Hydraulic Steering Column) Section	1 4 4 4 2 2 1 1 1 1

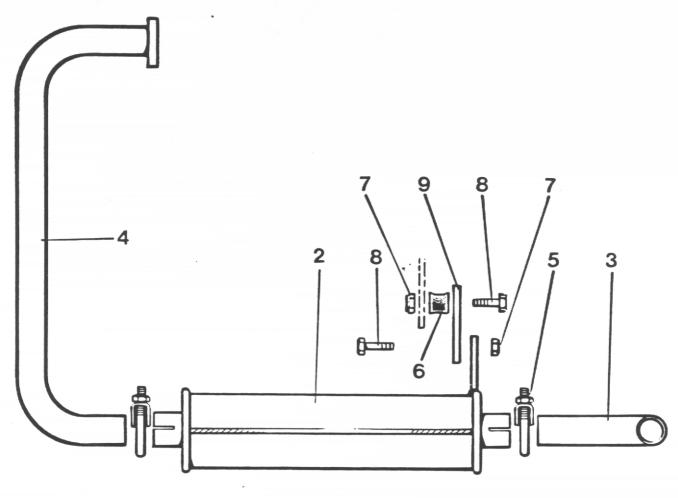
1717		FUEL PIPES & FITTINGS	1717
1718 .		DIESEL TANK ASSEMBLY	1718
Item No.	Part No.	Description	Qty.
1	1175.02	Banjo Coupling (Fuel Pipe Con.)c/w Bolt & Washer.	1
2	118S.1A	Standpipe Elbow	1
3	295.18	Fuel Pipe (590 Long)	1
4	1735.01	Union	1
- 5	10576.A0102	Pipe 3/16" Bundy x 80mm	2
6	29S.08	Bleed off Tube	1
7	40209.A01	Tank - Fuel	1
8	11S.05D	Bolt - Hex. Hd. M12 x 30) Tank	4
9	61S.05	Nut - Binx M12) to	4
10	17S.06	Washer - Spring M12) Chassis	4
11	10378.A03	Cap - Filler	1
12	10379.A04	Strainer	î



1719	,	HYD. OIL TANK ASSEMBLY	• • • • • • • • • • • • • • • • • • • •	 1719
Item No.	Part No.	Description		Qty.
1 2 3 4 5 6	40211.A01 115.05D 615.05 175.06 10378.A03 10379.A04	Tank - Hyd. Oil) Tank) to) Chassis	 4 4 4 1

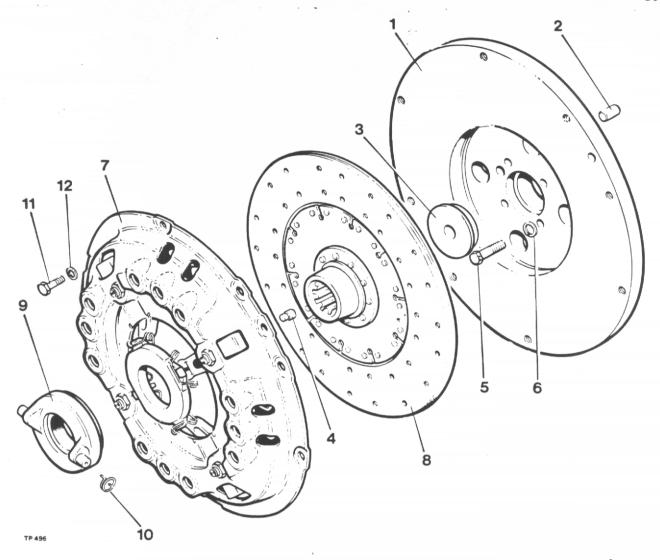


Item No.	Part No.	Description	Qty.
1 2 3 4 5 6 7 8 9 10 11 12 13	10532.A03 10534.A04 10533.A03 10532.A0301 10485.A01 978.15 118.03B 618.03 128.03 10457.A02 68.03E 68.03H 98.03	Air Cleaner Stack Cap Mounting Bands Replacement Filter Connecting Elbow Hose Clips Screw - Hex. Hd. M8 x 20 Long Nut - M8 Binx Washer - Plain M8 Adaptor - Air Inlet Bolt - Hex. Hd. 3/8" UNF x 1½" (Adaptor to Manifold Bolt - Hex. Hd. 3/8" UNF x 2½" (Adaptor to Manifold Nuts - Hex. 3/8" UNF (Adaptor to Manifold)	1 1 2 1 1 2 4 4 4 1 d)1 d)1
14	418.05	Washers - Spring 3/8" (Adaptor to Manifold)	2

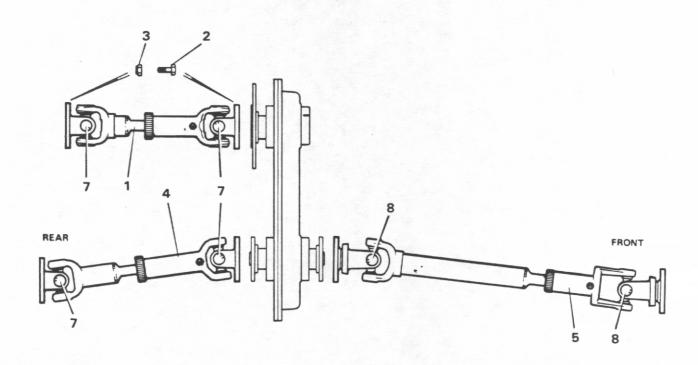


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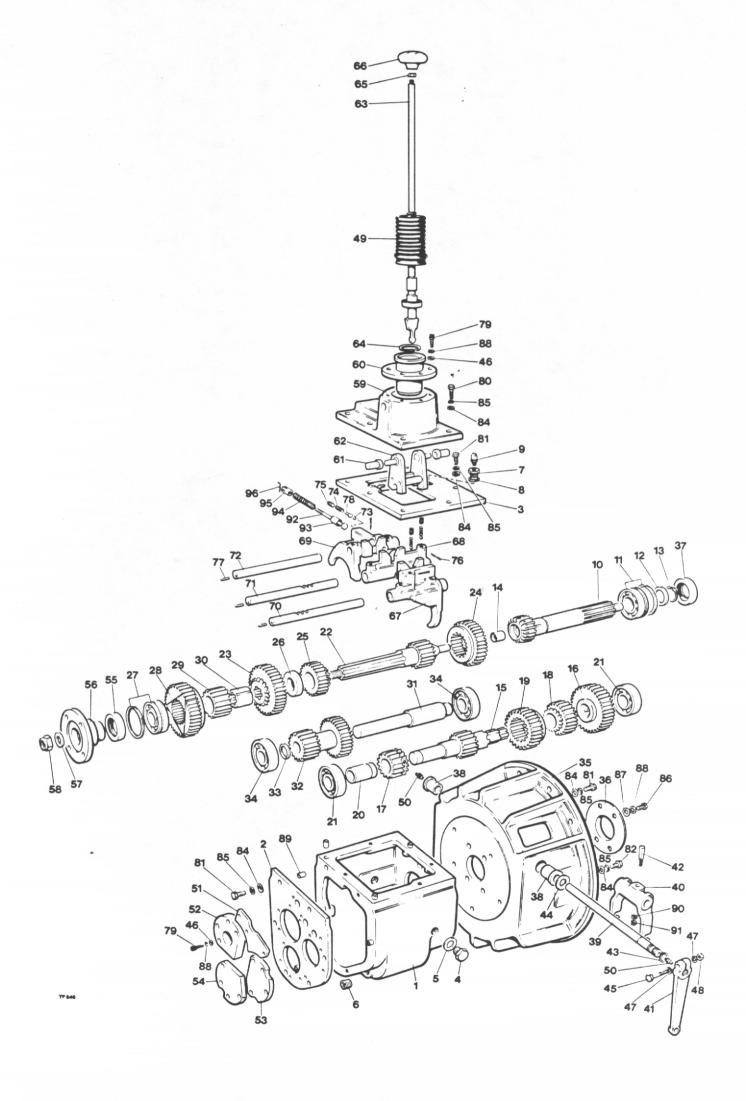
1 30154.A07 Silencer Assembly (including items 2,3,4 & 5) 1 2 30154.A0301 Silencer	Item No.	Part No.	Description	Qty.
	3 4 5 6 7 8	30154.A0301 10811.A02 10811.A01 1538.09 CSE 158 618.03 88.03B	Silencer Tail Pipe Inlet Pipe Exhaust Clamp (2") Rubber Bush Nut - M8 Binx Bolt - M8 x 30 Long	1 1 2 1 2



Item No.	Part No.	Description	Qty.
1	30259.A01	Friction Plate 11"	1
2	30259.A0103	Dowel. Friction Plate to crankshaft	1
3	10841.A01	Bush - Pilot - (Input shaft)	1
4	30259.A0102	Dowel - Friction Plate to clutch cover	2
5	6S.02B	Bolt Hex Hds. 5/16" UNF x 12" (Drilled for wire	_
		locking)	4
6	415.04	Washer - Spring 5/16"	4
7	10597.A04	Clutch Cover Assy. 11"	1
8	10598.A05	Clutch Driven Plate 11"	1
9	10579.A03	Carbon Thrust bearing	1
10	10579.A0101	Retainer Spring	2
11	6S.03A	Screw Hex. Hd. 3/8" UNF x 1.1/8" long	8
12.	41S.05	Washer - Spring 3/8"	8
10			
13	30253.A02	G/Box Assy. (N.1.)	1
14	30253.A0254	G/Lever c/w knob (N.I.)	1
15	69S.03E	Screw Hex. Hd. 3/8" UNC x 1" (G/Box to Engine)(NI)	12
16	41s.05	Washer - Spring	12
17	60 0 FT	D 1 - 1 - 1 - 1 1 1 1 1 1 1	
18	6S.05L	Bolt Hex. Hd. 2"UNFx31" (Eng. Fixing - Rear N.I).	2
19	6S.05J 47S.21	Bolt Hex. Hd. ½" UNFx2½"(Eng. Fixing - Front N.I)	2
20	107S. 6	Washer - Spring ½" dia. (N.I)	4
20	10/5. 0	Nut - Lock ½" Nyloc (N.I)	4

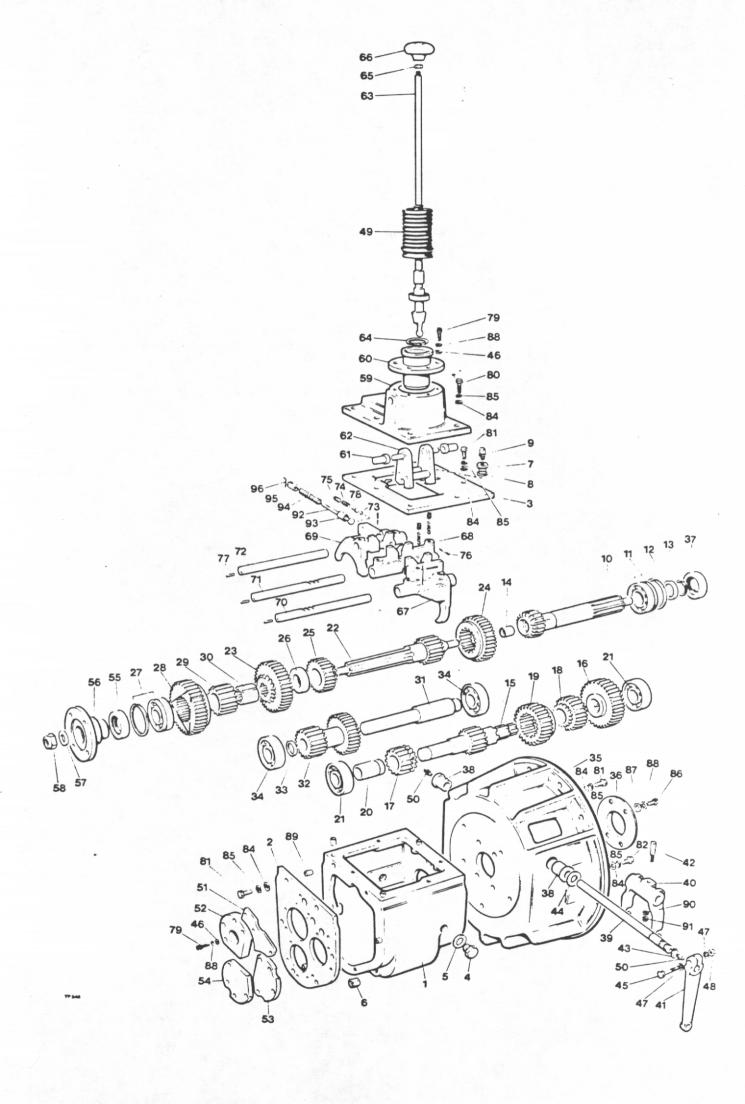


Item No.	Part No.	Description	Qty.
1	40297.A01	Propshaft - G/Box to T. Box	1
2	ESE 214	Bolt - 7/16" UNF x 1½"	24
3	1078.15	Nut - 7/16" UNF Nyloc	24
4	40114.A04	Propshaft - T. Box to Rear Axle	1
5	40077.A03	Propshaft - T. Box to Front Axle	1
6	415.06	Washer - 7/16" I.D. (Propshaft to Axles)	8
7	10207.A01	Repair Kit (Std. Angle)	A/R
8	10307.A01	Repair Kit (Wide Angle)	



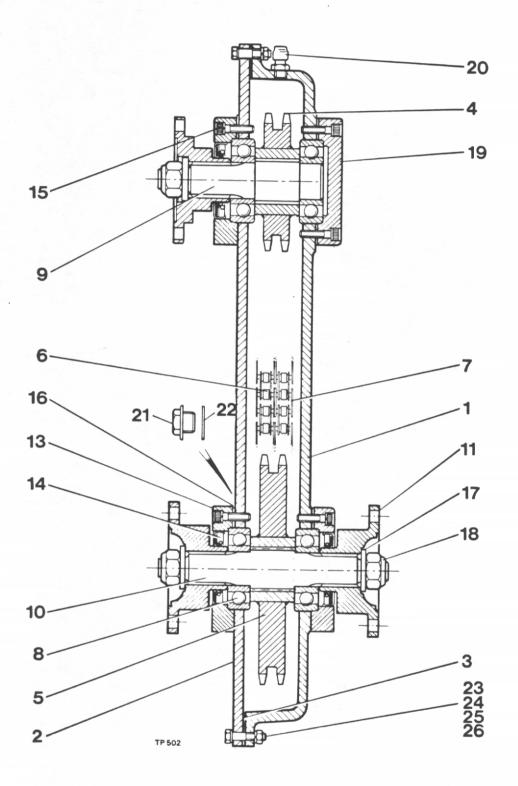
GEARBOX - 30253.A02 601 Type

		601 Type	
Item No.	Part No.	Description	Qty.
	20252 402		
	30253.A02	Gearbox Assembly complete	1
1	30253.A0201	Gear Case	1
2	30253.A0202	End Plate - Gear case	1
3	30253.A0203	Top Plate - Gear case	1
4	30253.A0204	Oil level Plug	2
5	428.05	Washer - Oil level Plug	2
6	30253.A0205	Drain Plug	1
7	30253.A0206	Filler Plug	1
8	42S.05	Washer - Filler Plug	ī
9	10305.A01	Breather - Filler Plug	1
10	30253.A0207	Input shaft 15T - 10SP	î
11	30253.A0208	Bearing c/w circlip	î
12	30253.A0209	Spacer - Input shaft	1
13	30253.A0210	Circlip - Input shaft	1
14	30253.A0211	Bearing - needle roller	1
15	30253.A0212	Layshaft - 15SP - 6SP	1
16	30253.A0213	Primary Reduction Gear - 31T - 6SP lay shaft	1
17	30253.A0214	First Reduction Gear - 15T - 15T - layshaft	1
18	30253.A0215	Second Reduction Gear - 20T - 15T - layshaft	
19	30253.A0216	Third Reduction Gear - 26T - 15SP - layshaft	1
20	30253.A0217	Spacer - leveleft	1
21	30253.A0218	Spacer - layshaft	1
22	30253.A0219	Bearing	2
23	30253.A0219	Mainshaft - 15SP - 6SP	1
24	30253.A0221	First Reduction Gear - 31T - 17T - 6SP - Mainshaft	
25	30253.A0221	Second Reduction Gear - 27T - 15SP - Mainshaft	1
26	30253.A0222	Third Reduction Gear - 21T - 15T	1
27		Spacer - Mainshaft	1
28	30253.A0224	Bearing c/w circlip	1
29	30253.A0225	Reverse Gear 33T - 17SP	1
30	30253.A0226	Spacer - 17SP - Reverse Gear - Mainshaft	1
	30253.A0227	Spacer - 6SP - Reverse Gear - Mainshaft	1
31	30253.A0228	Reverse Intermediate shaft	1
32	30253.A0229	Reverse Intermediate Gear - 25T - 16T	1
33	30253.A0230	Spacer - Reverse Intermediate shaft	1
34	30253.A0218	Bearing	2
35	30253.A0231	Bell Housing	1
36	30253.A0232	Cover - oil seal - Bell Housing	1
37	30253.A0233	Oil Seal - Input shaft	1
38	30253.A0234	Bush - Bell Housing	2
39	30253.A0236	Clutch Operating shaft	1
40	30253.A0237	Operating Fork - clutch	1
41	30253.A0238	Lever - clutch operating shaft	1
42	30253.A0239	Cotter - Taper shank	1
43	30253.A0240	Circlip - Clutch Operating shaft	1
44	30253.A0241	Washer - Clutch Operating shaft	1
45	6S.01E	Bolt - ½" UNF x 1½" long	1
46	105.34	Washer ½" dia	21
47	415.03	Spring washer ½" dia	2
48	95.01	Nut ½" UNF	1
49	30253.A0242	Turret Gaiter	1
50	131S.07	Grease Nipple	2
51	30253.A0243	Retaining Plate - (Selector Rods)	1
52	30253.A0244	Cover - oil seal - (Mainshaft)	1
53	30253.A0245	Cover - Blank - (layshaft)	1
54	30253.A0246	Cover - Blank - (Reverse Intermediate shaft)	1
55	30253.A0247	Oil Seal - (Mainshaft)	1
56	30253.A0235	Flange - (Mainshaft)	1
57	30253.A0241	Washer	1
58	107S.07	Nut	1
59	30253.A0248	Turret - Gear change	1
60	30253.A0249	Top Cover - Turret	1
	JU 2 JJ 1 RU 2 7 7	top outer turret interest in the second in t	1

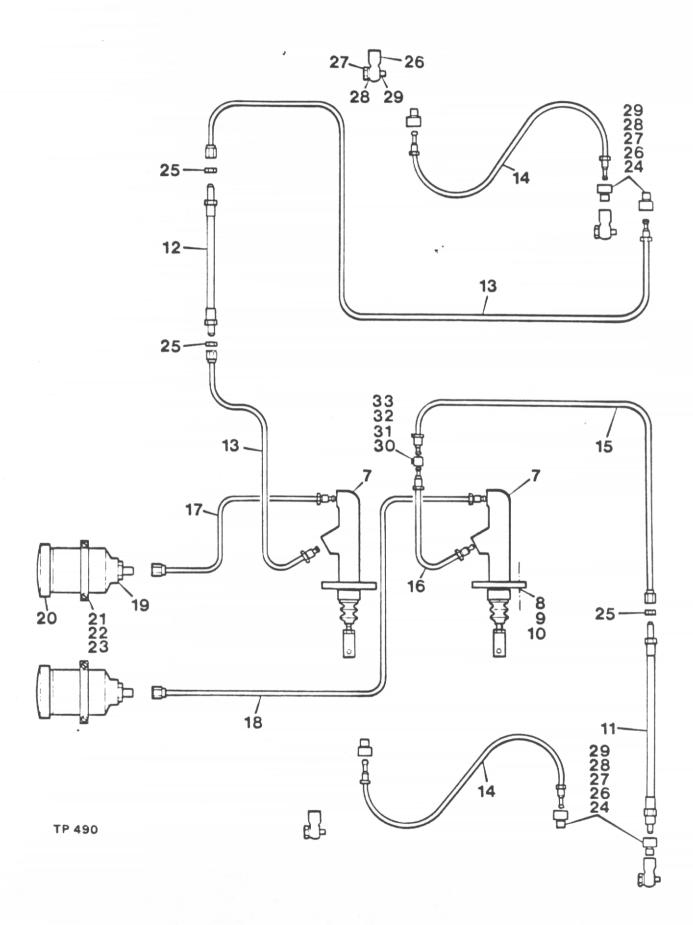


Cont'd GEARBOX - 30253.A02 601 Type

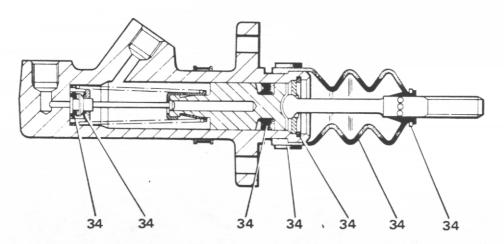
		601 Type	
Item No.	Part No.	Description	Qty
61	30253.A0250	Bush	
62	30253.A0251	Gear change Gate	2
63	30253.A0254	Gear lever c/w bearing	1
64	30253.A0252	Circlip	1
65	1045.03	Nut	1
66	30253.A0253	Knob - gear lever	1
67	30253.A0255	Selector fork - 1st/2nd Gears	1
68	30253.A0256	Selector fork - 3rd/4th Gears	
69	30253.A0257	Selector fork - Reverse Gear	1
70	30253.A0258	Rod - Selector fork - 1st/2nd Gears	1
71	30253.A0259	Rod - Selector fork - 3rd/4th Gears	
72	30253.A0260	Rod - Reverse Gear	1
73	30253.A0261	Ball - 3/8" dia	1
74	30253.A0262	Spring	3
75	30253.A0263	Slotted Grub Screw	
76	44S.02C	Split pin	3 3
77	30253.A0264	Dowel selector forks	3
78	30253.A0265	riessure rad	2
79	90S.02H	Capscrew - socket Head 2" UNF x 1" long	21
80	69S.03J	Bolt - Hex. Head 3/8" UNC x 2" long	-
81	69S.03G	BOIL - Hex. Head 3/8" INC x 1k" long	13
82	69S.03F	DOIL - nex. Head 3/8" UNC x 1½" long	1
83	69S.03E	BUIL - nex. Head 3/8" INC x 1" long	4
84 85	105.36	washer - Ilat 3/8" dia.	20
86	418.05	Spring Washer 3/8" dia	20
87	6S.01	DOIL - nex. head 2 UNF x 1 3/8" long	4
88	108.34	wasner - flat %" dia	4
89	415.03	Spring washer 2" dia	4
90	30253.A0266	DOWEL - HOLLOW - (Case plates)	6
91	10S.34	Washer - flat z" dia	1
92	30253.A0267	Nut	1
93	30253.A0268	Plunger	1
94	30253.A0269	Guide Bush	1
95	30253.A0270	Spring	1
96	30253.A0271	Slotted Nut	1
90	30253.A0272	Retaining wire	1



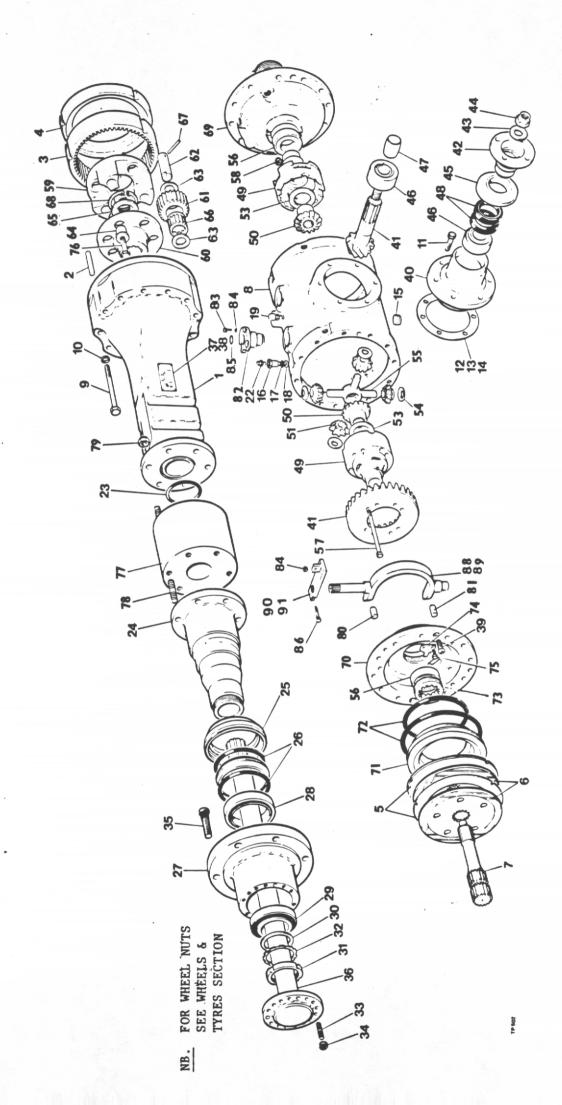
Item No.	Part No.	Description	Qty.
1 2 3 4 5 6 7 8 9	40054.A08 40061.A02 40062.A04 30072.A01 10508.A01 10505.A01 168S.01 169S.01 88S.06 10299.A01 10300.A01	Transfer Case Assy Complete Case Casting) Only supplied Cover Plate) together Gasket Sprocket Assembly 24T (Duplex) Sprocket Assembly 14T (Duplex) Chain 5/8" Pitch 77 Rollers (Duplex) Connecting Link Ball Bearing Input Shaft Output Shaft	1 1 1 1 1 1 1 4 1
11 12	10297.A01	Input/Output Flange	3
13 14 15 16 17 18 19 20 21 22 23 24 25 26	10562.A01 89S.02 90S.02H 10293.A01 10S.06 107S.07 10298.A01 10305.A01 10301.A01 42S.05 8S.02B 7S.02 17S.03 12S.02	Oil Seal Housing Oil Seal Cap Screw ½" x 1" Long Gasket Washer - Plain 3/4" I.D Nut - 3/4" Nyloc End Cover Breather Level/Filler Plug Washer - Fibre Bolt - Hex. Hd. M6 x 30 Nut - Hex. M6 Washer - Spring M6 Washer - Plain M6	3 3 16 4 3 3 1 1 1 24 24 24 24
	11S.05D 61S.05 12S.06	Screw - Hex. Hd. M12 x 30) Transfer Case Nut - M12 Binx) Fixing Washer - Flat M12) to Chassis	4 4 4



			F15
1636		AXLES & BRAKE FITTINGS	1636
Item No.	Part No.	Description	Qty.
1 2 3 4 5	30099.A02 30100.A02 CSE 193 6S.06V 6S.06W 107S.17	Axle - Front (358M) Axle - Rear (359M) Plate - Clamp Axle Bolt - Hex. Hd. 5/8"UNF x 8" (Axle - Rear) Bolt - Hex. Hd. 5/8"UNF x 8½" (Axle - Front) Nut - 5/8" UNF Nyloc (to 180 ft.1bs.)	1 1 8 8 8 8
7 8 9 10	20102.A02 8S.03B 7S.03 17S.04	Master Cylinder Bolt - Hex. Hd. M8 x 30 Nut - M8 Washer - Spring M8	2 4 4 4
11 12 13 14 15 16 17	10516.A02 10517.A02 10967.A16 10968.A02 10967.A19 10968.A07 10967.A20	Hose - Flexible (to Rear Axle) Hose - Flexible (to Front Axle) Pipe - Brake (M/c to Flex. to Front Axle) Pipe - Brake (Axle Bridge) Pipe - Brake (Tee to Rear Flexible) Pipe - Brake (M/c to Tee) Pipe - Brake Pipe - Brake	1 1 2 2 1 1 1
19 20 21 22 23	10659.A02 10659.A0201 10659.A0102 82S.03C 85S.01	Reservoir Cap - Reservoir Clip - Reservoir Screw - Slot Rd. Hd. 2BA x ½" Nut - 2BA Nyloc	2 2 2 4 4
24 25 26 27 28 29	10354.A02 10582.A01 1148.01 1158.01A 1168.02 1168.01	Adaptor - Brake Pipe Nut - Hex. Half M12 Coupling - Banjo 3/8" UNF Bolt - Banjo 3/8" UNF Washer - Copper 7/16" I.D. Washer - Copper 3/8" I.D.	6 3 8 8 8
30 31 32 33	10387.A01 11S.02B 7S.02 17S.03	Adaptor - Brake Switch Screw - Hex. Hd. M6 x 20 Nut - Hex. M6 Washer - Spring M6	1 2 2 2
J .	LUJIU.NUI	Master Cylinder Service Kit	A/R

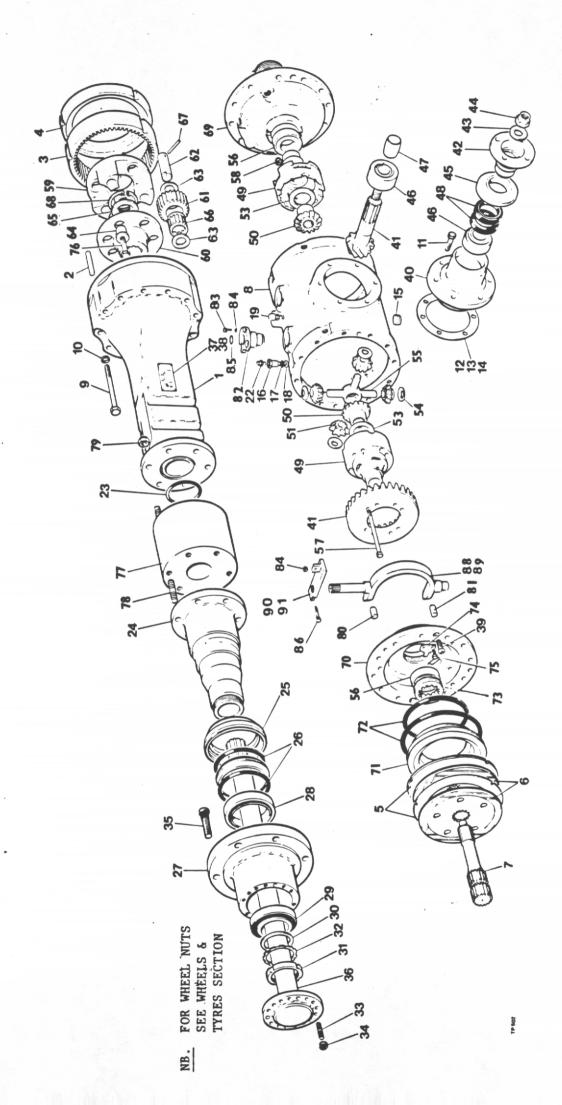


The following alterations occur if machine is fitted with Safety Frame item 24 is deleted and items 15 & 16 are replaced by a single pipe Part No.10967.Al8

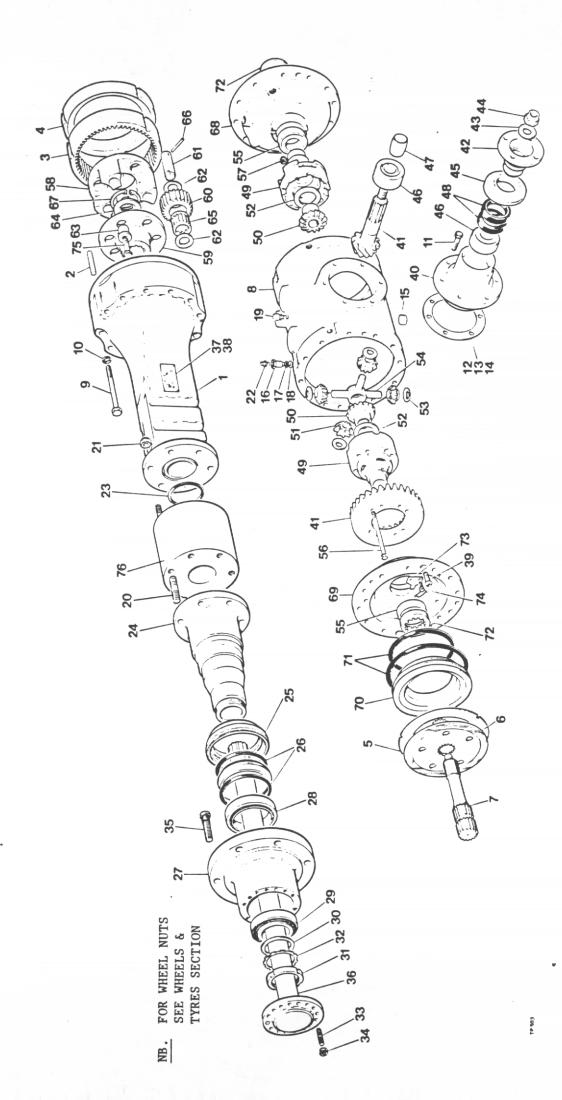


DRIVE AXLE - 30099.A02

Item No.	S. & E. Pt. No.	Description	Qty.
	30099.A02	Avle complete	
1	30082.A0201	Axle complete	1
2	30100.A0201	Axle Arm	2
3	30082.A0203		6
4	300 99.A0206	Annulus	2
5	30082.A0205	Brake Spacer Plate	2
6		Brake Fixed Plate	4
7	30082.A0206	Oil Immersed Brake Disc	4
8	30082.A0207	Sun Gear	2
	30099.A0201	Main Axle Casing	1
9	8S.4Q	Bolt	24
10	175.4	Spring Washer	24
11	11S.4C	nex. Hd. Screw	6
12	30082.A0209	Pinion Adjusting Shim	A/R
13	30082.A0210	Pinion Adjusting Shim	
14	30082.A0211	Pinion Adjusting Shim	A/R
15	30082.A0212	Hex. Socket BSP TR Plug	A/R
16	30082.A0213	Brake Pipe Adaptor	2
17	495.2	'O' Ring	4
18	30082.A0269	'O' Ring	4
19	30082.A0214	Dowty Washer	4
20	00002:110214	Relief Valve	1
21			
22	30082.A0215	Production of the same	
23	30082.A0213	Brake Bleed Valve	2
24		'O' Ring	2
25	30082.A0216	Stub Axle	2
26	30082.A0217	Oil Seal Housing	2
	30082.A0218	Hub Oil Seal	2
27	30082.A0219	Hub	2
28	30082.A0220	Hub Inner Bearing	2
29	30082.A0221	Hub Outer Bearing	2
30	30082.A0222	Hub Bearing Spacer	2
31	30082.A0223	Bearing Lock Nut	2
32	30082.A0224	Tab Washer	2
33	30082.A0267	Stud	16
34	59S.04	Nyloc Nut	16
35	30082.A0225	Wheel Stud	16
36	30100.A0223	Axle Shaft	
37	30082.A0227	Label	2
38	15S.1A	Hammer Drive Screw	1
39	30082.A0266	Hex. Socket Button Hd. Screw	4
40	30082.A0228	Input Pinion Sertaides	4
41	30082.A0270	Input Pinion Cartridge	1
42	30082.A0230	Spiral Bevel Pinion and wheel	1
43	30082.A0231	Drive Flange	1
44	30082.A0232	Drive Flange Washer	1
45	30082.A0232	Drive Flange Nut	1
	30082.A0234	Oil Seal Cover	1
47	30082.A0235	Pinion Bearing	2
48		Pinion Bearing Spacer	1
	30082.A0236	Pinion Oil Seal	2
49	30100.A0212	Diff. Case Process Assembly	1
50	20000		
51	30082.A0239	Diff. Wheel	2
52	30082.A0240	Diff. Pinion	4
53	30082.A0241	Diff. Wheel Thrust Washer	2
54	30082.A0242	Diff. Pinion Thrust Washer	4
55	30082.A0243	Diff. Spider	1
56	30082.A0244	Diff. Bearing	2
57	8S.4Q	Bolts	8
58	598.03	Nyloc Nuts	8

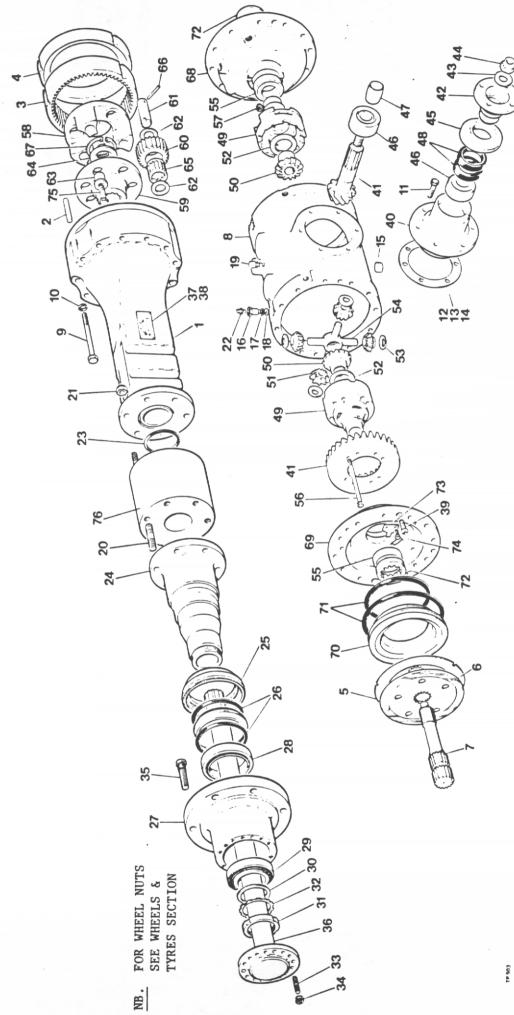


Item	S. & E.	Description		Qty
No.	Pt. No.			QLy
59	30082.A0245	Planet Carrier		1
60	30100.A0207	Carrier Drive Flange		1
61	30082.A0247	Planet Gear		3
62	30082.A0248	Planet Pin		3
63	30082.A0249	Planet Thrust Washer		6
64	30048.A0107	Planet Carrier Bush		3
.65	30082.A0251	Axle Shaft Thrust Spacer		1
66	30082.A0252	Planet Cage Roller	••••••	7
67	30082.A0253	Spring Dowel	• • • • • • • • • • • • • • • • • • • •	3
68	30082.A0265	Circlip	• • • • • • • • • •	2
69	30100.A0208	Brake Cylinder R.H	• • • • • • • • • • • • • • • • • • • •	1
70	30100.A0209	Brake Cylinder L.H	• • • • • • • • • • •	1
71	30100.A0210	Brake Piston	• • • • • • • • • • • • • • • • • • • •	2
72	30100.A0211 ∫	Piston Oil Seals	• • • • • • • • • • • • • • • • • • • •	2
	7	Piston Oil Seals	• • • • • • • • • • • • • • • • • • • •	2
73	30082.A0259	Bearing Adjusting Nut	• • • • • • • • • • • • • • • • • • • •	2
74	30082.A0260	Adjusting Nut Lock Plate		2
75	30082.A0261	Screw - Lock Plate	• • • • • • • • • • • • • • • • • • • •	4
76	30082.A0262	Planet Carrier Bolt	• • • • • • • • • • • • • • • • • • • •	3
77	30100.A0213	Axle Case Extender	• • • • • • • • • • • • • • • • • • • •	2
78	30082.A0267	Studs	• • • • • • • • • • • • • • • • • • • •	24
79	59S.04	Nuts - Nyloc M12	• • • • • • • • • • • • • • • • • • • •	24
80	30099.A0202	Roller	• • • • • • • • • • • • • • • • • • • •	2
81	30099.A0203	Roller	• • • • • • • • • • • • • • • • • • • •	2
82	30044.A0201	Brake Lever Support Bush	• • • • • • • • • • • • • • • • • • • •	2
83	30044.A0202	Setscrew	• • • • • • • • • • • • • • • • • • • •	6
84	17S.04	Spring Washer	• • • • • • • • • • • • • • • • • • • •	6
85	30044.A0203	'O' Ring	• • • • • • • • • • • •	2
86	30044.A0204	Setscrew Handbrake Lever	• • • • • • • • • • • • • • • • • • • •	2
87	59S.03	Nyloc Nut	• • • • • • • • • • • • • • • • • • • •	2
88	30099.A0204	Brake Lever (L.H.)	• • • • • • • • • • • • • • • • • • • •	2
89	30099.A0205	Brake Lever (R.H.)	• • • • • • • • • • • • • • • • • • • •	1
90	10049.A02	Handbrake Lever (L.H.)	• • • • • • • • • • • • • • • • • • • •	1
91	10048.A02	Handbrake Lever (R.H.)		1

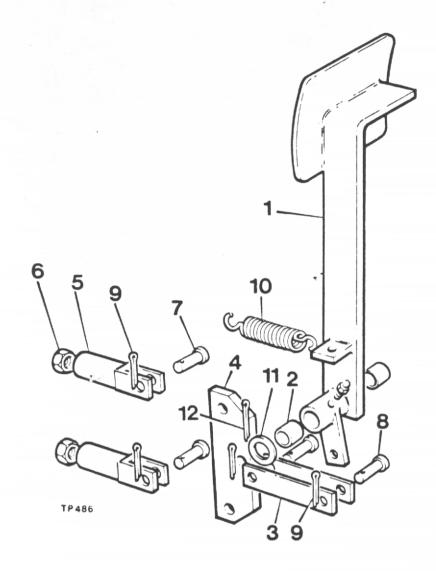


DRIVE AXLE - 30100.A02

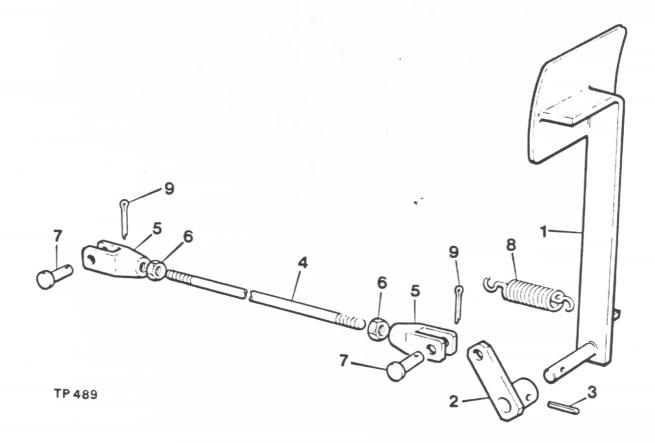
Item	S. & E.	Description	Qty.
No.	Pt. No.	Description	QLy.
	30100.A02	Avla complete	
1	30082.A0201	Axle complete	1
2	30100.A0201	Axle Arm	2
		Pin	6
3	30082.A0203	Annulus	2
4	30082.A0204	Brake Spacer Plate	2
5	30082.A0205	Brake Fixed Plate	2
6	30082.A0206	Oil Immersed Brake Disc	2
7	30082.A0207	Sun Gear	2
8	30082.A0208	Main Axle Casing	1
9	8S.4Q	Bolt	24
10	175.4	Spring Washer	24
11	11s.4c	Hex. Hd. Screw	6
12	30082.A0209	Pinion Adjusting Shim	A/R
13	30082.A0210	Pinion Adjusting Shim	
14	30082.A0211	Pinion Adjusting Shim	A/R
15	30082.A0211	Pinion Adjusting Shim	A/R
		Hex. Socket BSP TR Plug	2
16	30082.A0213	Brake Pipe Adaptor	4
17	495.2	'0' Ring	4
18	30082.A0269	Dowty Washer	4
19	30082.A0214	Relief Valve	1
20			
21			
22	30082.A0215	Brake Bleed Valve	2
23	30082.A0268	'O' Ring	2
24	30100.A0203	Stub Axle	2
25	30082.A0217	Oil Seal Housing	2
26	30082.A0218	Hub Oil Seal	2
27	30100.A0204	Hub	2
28	30082.A0220	Hub Inner Bearing	2
29	30082.A0220		
30		Hub Outer Bearing	2
	30082.A0222	Hub Bearing Spacer	2
31	30082.A0223	Bearing Lock Nut	2
32	30082.A0224	Tab Washer	2
33	30082.A0267	Stud	16
34	595.04	Nyloc Nut	16
3 5	30082.A0225	Wheel Stud	16
36	30100.A0223	Axle Shaft	2
37	30082.A0227	Label	1
38	15S.1A	Hammer Drive Screw	4
39	30082.A0266	Hex. Socket Button Hd. Screw	4
40	30082.A0228	Input Pinion Cartridge	1
41	30082.A0270	Spiral Bevel Pinion and wheel	1
42	30082.A0270	Drive Flange	1
43	30082.A0231		
		Drive Flange Washer	1
44	30082.A0232	Drive Flange Nut	1
45	30082.A0233	Oil Seal Cover	1
46	30082.A0234	Pinion Bearing	2
47	30082.A0235	Pinion Bearing Spacer	1
48	30082.A0236	Pinion Oil Seal	2
49	30100.A0212	Diff. Case Process Assembly	1
50		-	
51	30082.A0239	Diff. Wheel	2
52	30082.A0240	Diff. Pinion	4
53	30082.A0241	Diff. Wheel Thrust Washer	2
54	30082.A0242	Diff. Pinion Thrust Washer	4
55	30082.A0243	Diff. Spider	1
56	30082.A0244	Diff. Bearing	2
57	85.4Q	Bolts	8
58	598.03	Nyloc Nuts	8
20	378.03	My TOL MULB	U



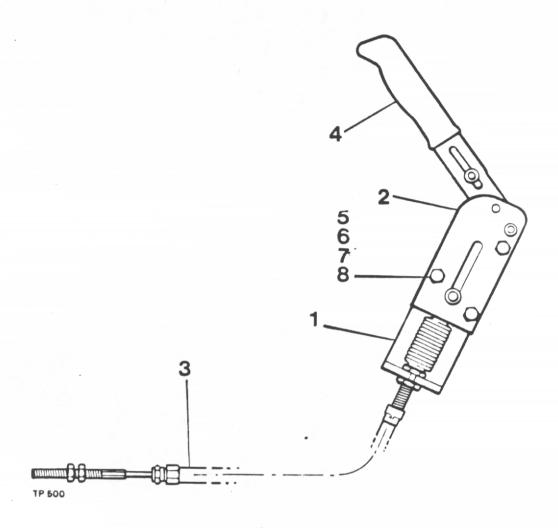
Item	S. & E.	Description	Qty
No.	Pt. No.		1 -2
59	30082.A0245	Planet Carrier	. 1
60	30100.A0207	Carrier Drive Flange	. 1
61	30082.A0247	Planet Gear	
62	30082.A0248	Planet Pin	
63	30082.A0249	Planet Thrust Washer	
64	30048.A0107	Planet Carrier Bush	
65	30082.A0251	Axle Shaft Thrust Spacer	
66	30082.A0252	Planet Cage Roller	
67	30082.A0253	Spring Dowel	
68	30082.A0265	Circlip	
69	30082.A0271	Brake Cylinder R.H	
70	30082.A0272	Brake Cylinder L.H	
71	30100.A0210	Brake Piston	
72	30100.A0211 S	Piston Oil Seals	
	1	Piston Oil Seals	
73	30082.A0259	Bearing Adjusting Nut	
74	30082.A0260	Adjusting Nut Lock Plate	
75	30082.A0261	Screw - Lock Plate	
76	30082.A0262	Planet Carrier Bolt	
77	30100.A0213	Axle Case Extender	
78	30082.A0267	Studs	
79	598.04	Nuts - Nyloc M12	



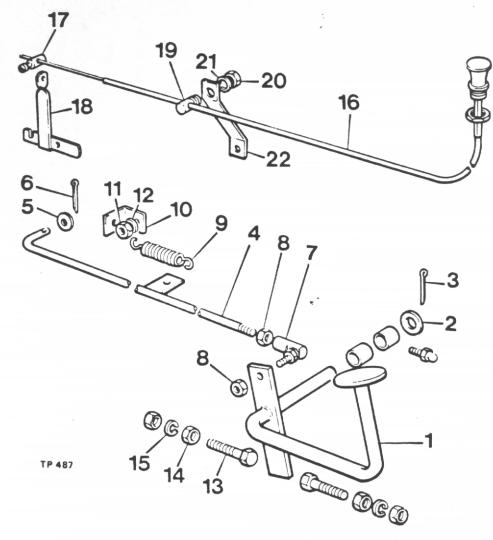
Item No.	Part No	Description	0.
reem no.	rare no.	Description	Qty.
1	20232.A01	Brake Pedal Assembly	1
2	435.02	Bush	2
3	10436.A02	Pedal Links	2
4	20117.A07	Compensator Beam	1
5	10454.A02	Special Clevis	2
6	955.03	Nut - Hex. Half (M/Cyl.) 3/8" UNF	2
7	10650.A17	Clevis Pins (C.174X)	2
8	10650.A18	Clevis Pins (C.174XL)	2
9	44S.02C	Split Pins 3/32" Dia. x 1" Long	4
10	C173B	Return Spring	1
11	105.17	Washer - Plain 3/4")	2
12	445.04	Washer - Plain 3/4") Split Pin) Brake Pedal	1



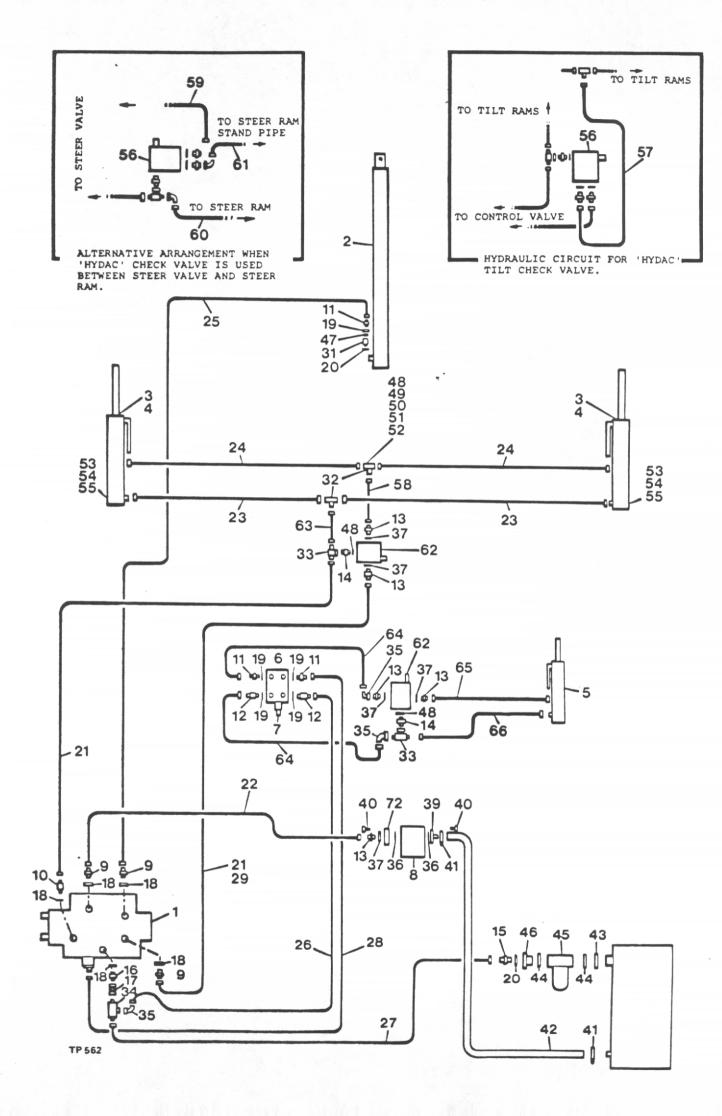
Item No.	Part No.	Description	Qty.
1 2 3 4 5 6 7 8	20096.A05 10563.A03 54S.O7M 38S.C65 C174A 74S.04 10650.A17 C173B 44S.02C	Clutch Pedal Assembly Clutch Lever Assembly Tension Pin Clutch Rod 3/8" BSF x 435 Long Clevis 3/8" BSF Half Nut 3/8" BSF Clevis Pin 3/8" Dia Return Spring Split Pin 3/32" x 1" Long	1 1 2 2 2



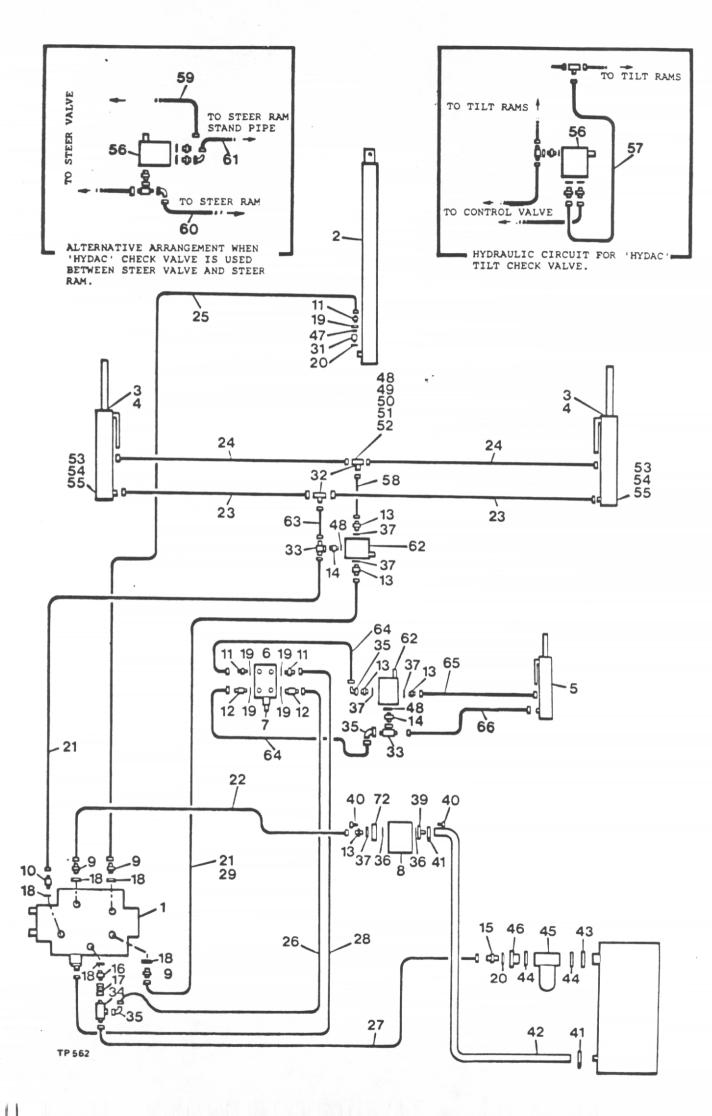
Item No.	Part No.	Description	Qty.
1 2 3 4 5 6 7 -	20267.A01 715-C-11605 20273.A01 10837.A01 8S.04J 17S.05 61S.04 12S.19	Bracket - Handbrake Handbrake Assembly Cable Assembly Handbrake Lever Sleeve Bolt - Hex. Hd. M10 x 65 (H/Brake to Bracket) Washer - Spring M10 (H/Brake to Bracket) Nut - M10 Binx (H/Brake to Bracket) Washer - Flat M10 (H/Brake to Bracket)	1 1 3 3



Item No.	Part No.	Description	Qty.
1	20231.A02	Pedal - Accelerator	1
2	10s.04		1
3	44s.02		1
4	10362.A03	Rod - Accelerator	1
5	10S.12	Washer 戈" I.D.	1
6	44S.1C	Pin - Split 1/16" x 1"	1
7	C160B	Ball End	1
8	74S.02	Nut 戈" BSF	2
9 10 11. 12	C173D 10360.A02 9S.02 41S.04	Spring Bracket Nut 5/16" UNF Washer - Spring 5/16"	1 1 1
13	11S.03C	Screw - Hex. Hd. M8 x 35	2
14	7S.03	Nut - Hex. M8	4
15	17S.04	Washer - Spring M8	2
16 17 18 19 20 21	4-60-239 4-35-196 10346.A02 4-60-242 9S.03 67S.04 10209.A03	Cable - Engine Stop Nipple & Screw Lever - Stop Control Clamp - Screw Nut 3/8" UNF Washer - Shakeproof 3/8" I.D. Bracket	1 1 1 1 1

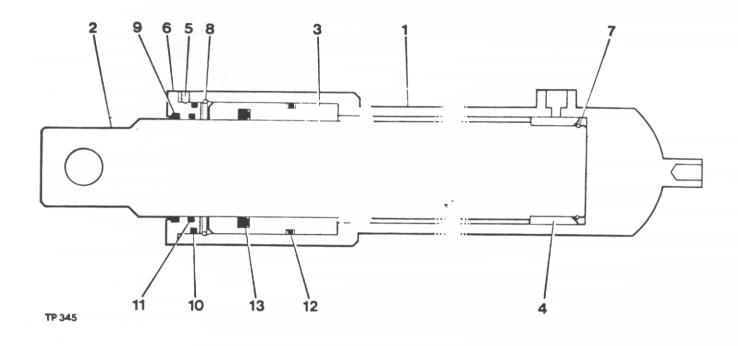


1924			HYDRAULICS	1924
Item	No.	Part No.	Description	Qty.
1			Valve - Control (2000 p.s.i.)-(See sep.illus.)	1
2			Cylinder - Lift (See sep. illus.)	1
3			Cylinder - Tilt " " "	2
4		10695.A04	Spacer - Tilt Cylinder	2
5			Ram - Steer (See sep. illus.)	1
			Nam Dieer (Dee Sep. 111ds.)	1
6		CSE.178	Valve - Steer	1
7		FSE.289	Column - Steer	1
8		10589.A01		1
9		CSE.186	Pump	1
10		4-60-158	Adaptor	3
11		126S.04	Adaptor	1
12			Adaptor	3
		4-60-115	Adaptor	2
13		1225.03	Adaptor	5
14		1195.03	Adaptor	2
15		1225.04	Adaptor	1
16		DSE.115	Adaptor	1
17		164S.05	Adaptor	1
18		495.01	'0' Ring	5
19		495.02	'0' Ring	5
20		100s.04	Seal - Bonded	2
21		35S.02H	Hose ST-ST (M/C with Cab)	2
22		31S.02N	Hose ST-90	1
23		31S.02EE	Hose ST-90°	2
24		31S.02AA	Hose ST-90°	2
25		31S.02HH	Hose ST-90°	1
26		31S.02E	Hose ST-90°	1
27		31S.03K	Hose ST-90°	1
28		36S.02II	Hose 90°-90° at 270°	1
29		35S.02E	Hose ST-ST (M/C with S. Frame)	2
30		1798.01	Tie - Cable	1
			32010	1
31		FSE.121	Adaptor - Restrictor	1
32		1215.04	Tee	1
33		1548.09	Tee	2
34		1135.01		1
35		96S.09	Tee	1
36		49S.11	Elbow	3
37		1005.03	'0' Ring	2
38			Seal - Bonded	5
30		100S.02	Seal - Bonded	2
39		10/75 400	Plane Alexan	
		10475.A02	Plate - Adaptor	1
40		103S.03C	Capscrew 5/16" UNC x 1"	4
41		97S.10	Clip - Hose	2
42		10965.A01	Hose	1
43		725.07	Nut - Back	2
44.		100S.09	Seal - Bonded	2
45		10363.A01	Filter	1
46		111S.01A	Bush - Reducing	1
47		16097.375	Plate - Orifice	1
48		10759.A01	Bracket	1
49		121S.04	Tee	2
50		11S.04H	Screw Hex. Hd. M10 x 50	1
51		7S.04	Nut Hex. M10	1
52		178.05	Washer - Spring M10	1



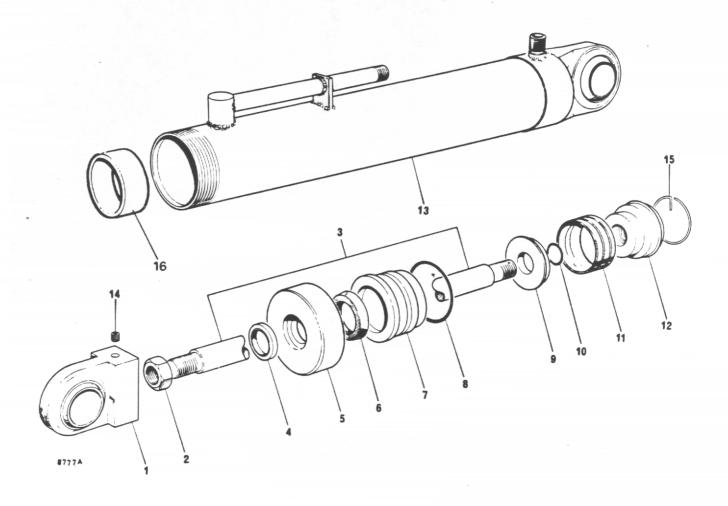
Item No.	Part No.	Description	Qty
53 54 55	4-35-110A 4-35-110B 67s.13	Bolt - Pivot 1½" BSF x 3½" (Tilt Ram to Chassis) Nut Hex. Half 1½" BSF (Tilt Ram to Chassis) Washer - Shakeproof 1½" I.D. (Tilt Ram to Chassis)	2 2 2
56 57 58 59 60 61	10881.A01 31S.02M 35S.02D 31S.02Q 31S.02V 31S.02EE	Valve - Tilt Check Hose ST-90° Hose ST-90° Hose ST-90° Hose ST-90° Hose ST-90°	1 1 2
62 63 64 65 66	ESE 130-6 35S.02D 31S.02R 31S.02EE 31S.02AA	Valve - Tilt Check Hose ST-ST Hose ST-90° Hose ST-90° Hose ST-90°	2 2 2 1 1
67 68 69 70	8S.03F 7S.03 17S.04 12S.17	Bolt Hex. Hd. M8 x 50 (Check Valve to Chassis) Nut Hex. M8 (Check Valve to Chassis) Washer - Spring M8 (Check Valve to Chassis) Washer - Flat (Check Valve to Chassis)	2 2 2 2
71	10959.A01	Coupling - Hose, Test Point Plug	1
72	4-35-261	Plate - Adaptor	1

MAST LIFT CYLINDER



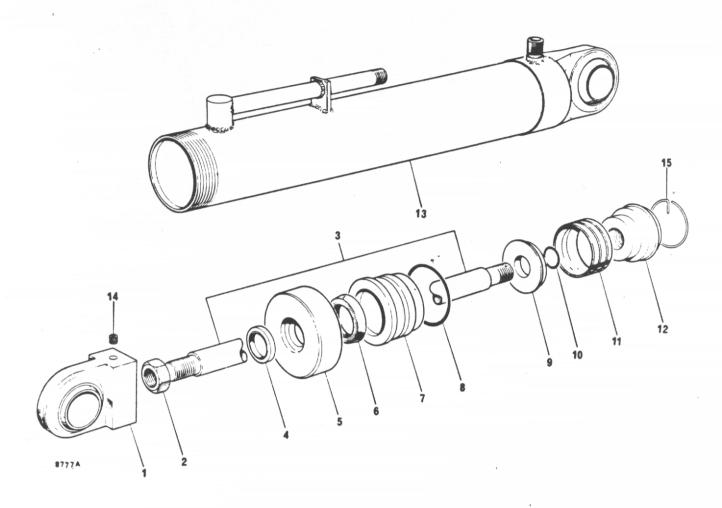
Item No.	Part No.	Description	Otv.
1 2 3 4 5 6 7 8 9 · 10 11 12 13	Part No. 30115.A01 30115.A0101 30115.A0102 30115.A0104 30115.A0105 30115.A0106 30115.A0107 30115.A0109 30115.A0110 30115.A0111 30115.A0112 30115.A0113	Lift Cylinder (complete) Body Assembly Piston Assembly Gland Bearing Ring (Phosphor Bronze) Socket Screw ½" BSF x ½" Long Wiper Ring Retaining Ring Retaining Ring Wiper Seal 'O' Ring 'O' Ring 'O' Ring Gland Seal	Qty. 1 1 1 1 1 1 1 1 1 1 1 1
14	30115.A0114	Seal Kit (comprising items 0.12 i)	A/R

MAST TILT CYLINDER

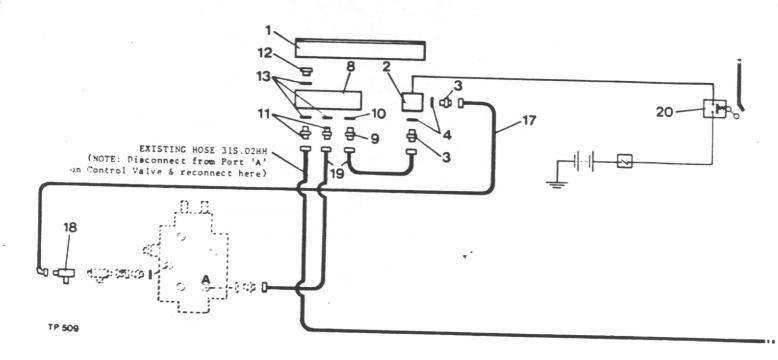


Item No.	Part No.	Description	Qty.
	30161.A05	Cylinder complete (2 per machine)	
1	30121.A0101	Piston Rod Fitting	1
2	30121.A0102	Locknut	1
3	30161.A0101	Piston Rod	1
4	30121.A0104	Wiper	1
5	30121.A0105	Tube Cap	1
6	30121.A0106	Sleeve Seal	1
. 7	30121.A0107	Sleeve	1
8	30121.A0108	Sleeve 'O' Ring	1
9	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
16	10695.A04	Spacer	1
	CSE 189	Seal Kit (Comprising items 4,6,8,10 & 11)	A/R

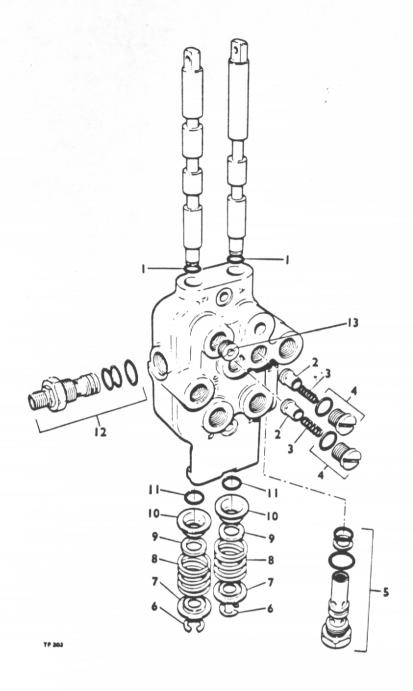
STEERING CYLINDER



Item No.	Part No.	Description	Qty.
	30121.A03	Cylinder complete (1 per machine)	
1	20100.A02	Piston Rod Fitting	1
2	95S.09	Locknut	1
3	30121.A0302	Piston Rod	1
4	30121.A0104	Wiper	1
5	30121.A0105	Tube Cap	1
6	30121.A0106	Sleeve Seal	1
8	30121.A0303	Sleeve	1
9	30121.A0108 30121.A0109	Sleeve 'O' Ring	1
10	30121.A0110	Backing Washer	1
11	30121.A0111	Piston 'O' Ring	1
12	30121.A0112	Piston Seal	1
13	30121.A0113	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

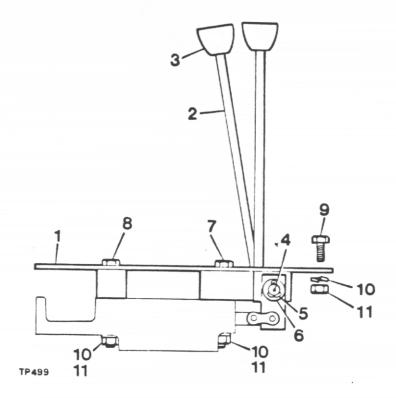


Item No.	Part No.	Description	Qty.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	10895.A03 10785.A01 122S.03 100S.03 8S.02F 61S.02 12S.14 10784.A01 119S.03 100S.02 119S.08 127S.04 100S.04 8S.03K 61S.03 12S.20 4-35-365 154S.02 3S.HD.66 10797.A02 8S.02A 12S.14 10895.A02 8S.03B 61S.03 12S.17 10795.A03 10796.A01	Plate - Mounting Valve - Solenoid Adaptor Seal - Dowty Bolt	1 1 2 2 2 2 2 1 1 1 2 1 2 1 2 1 2 1 2 2 2 2 1 1 2 1 2 2 1 2 2 1 2
29	10896.A01	Clip (Not Illustrated)	1 8

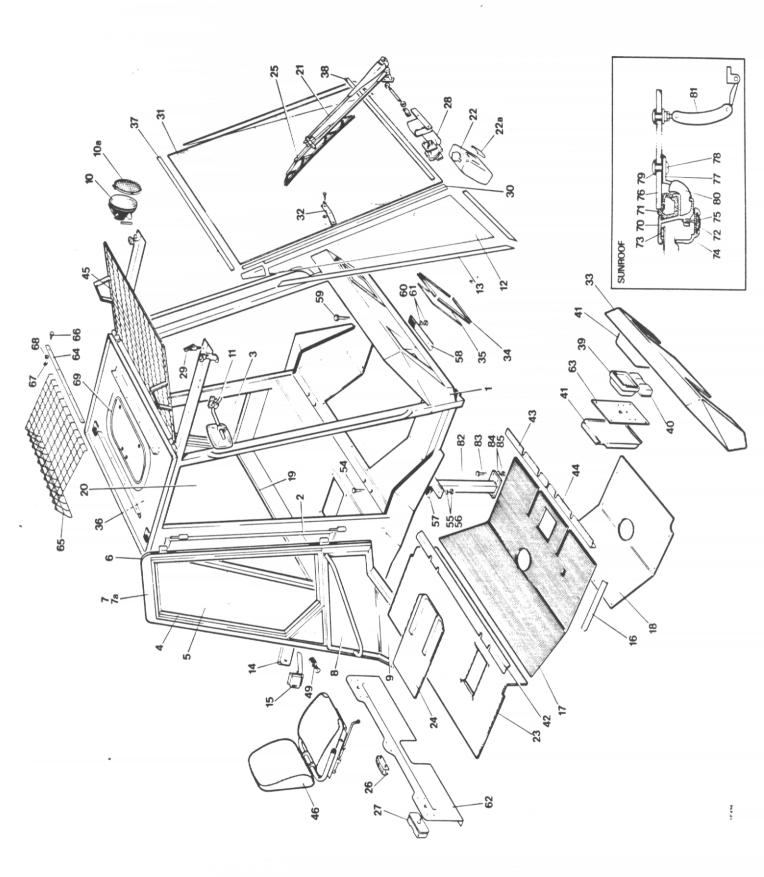


HYDRAULIC CONTROL VALVE

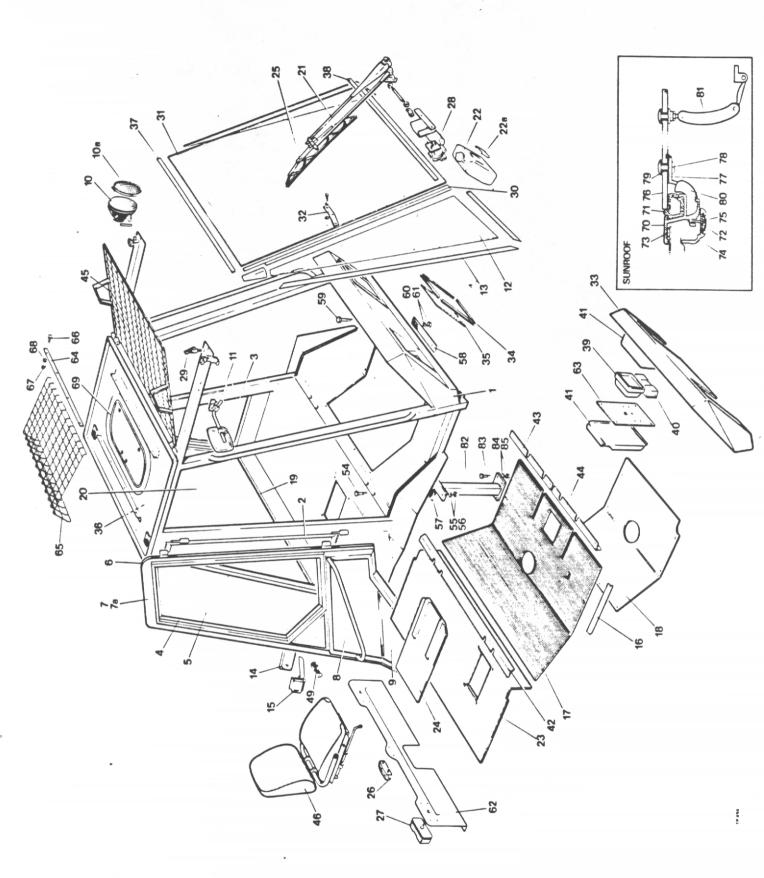
Item No.	Part No.	Description	Qty.
	30036.A02	Control Valve	<i>q c j</i> .
1	30057 A0104	'O' Ring	2
2	30131 A0110	Lift Check Plunger	2
3	30131 A0109	Lift Check Spring	2
4	30057 A0103	Lift Check Plug Assy.	2
5	30131 A0107	Relief Valve Assy.	1
6	30131 A0101	Clip Ring (½" Shaft)	7
7.	30131 A0102	Shallow Washer	2
8	30131 A0103	Spool Spring	2
9	30131 A0104	Spacer Washer	2
10	30131 A0105	Deep Washer	2
11	30057 A0101	'O' Ring	2
12	30131 A0113	Flow Control Valve	1
13	30036 A0201	Orifice Plate	1



Item No.	Part No.	Description	Qty.
1 2 3 4 5 6 7 8	20253.A01 10520.A08 10211.A01 10411.A01 44S.01C 10S.14 8S.03N 8S.03P 11S.03C	Bracket Lever Assembly Knob Pivot Pin Split Pin 1/16" Dia. x 1" Washer - Flat 3/8" Bolt Hex. Hd. M8 x 90 (Valve Fixing) Bolt Hex. Hd. M8 x 100 (Valve Fixing) Screw Hex. Hd. M8 x 25 (Bracket to Cab)	1 2 2 1 2 2 1
10	17S.04 61S.03	Washer - Spring M8	6
**	015.05	Nut M8 Binx	6



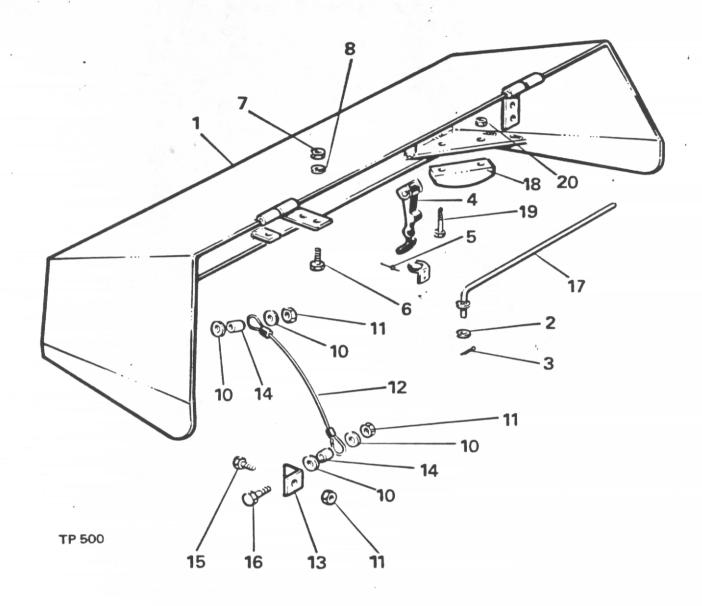
Item No.	Part No.	Description	Qty.
1	40176.A01	Coh Assu somelet	_
2	40176.A0101	Cab Assy. complete	1
3	40176.A0102	Aluminium Frame (Rear Quarter)	2
4	40176.A0103	Glass (Rear Quarter)	2
5	40176.A0104	Aluminium Frame (Door)	2
6	40176.A0105	Glass (Door)	2
7		Door Seal	2
7a	40284.A01	Complete Door L.H	1
	40284.A02	Complete Door R.H	1
8	40176.40106	Insulation - Top - Door	2
9	40176.A0107	Insulation - Bottom - Door	2
10	40176.A0108	Working Lights	2
10a	40176.A0109	Stone guard	2
11	40176.A0110	External Mirrors	2
12	40176.A0111	Glass (Front side Quarter)	2
13	40176.A0112	Aluminium Frame R/H & L/H	2
14	40176.A0113	Handle - Outside	2
15	40176.A0114	Handle - Inside	2
16	40176.A0115	Angle tread plate	
17	40176.A0116	Floor Mat	2
18	40176.A0117	Plato - Commiss Comm	1
19	40176.A0118	Plate - Service Cover	1
20	40176.A0119	Aluminium Frame (Rear)	1
21	40176.A0120	Glass (Rear)	1
21a	40176.A0143	Wiper Arm (Rear)	1
22	40176.A0121	Wiper Arm (Front)	1
22a	40176.A0122	Washer Assy	1
23		Washer Assy. Bracket	1
24	40176.A0123	Insulation - Seat Panel	1
	40176.A0124	Seat Plate	1
25	40176.A0125	Wiper Blade (Front & Rear)	2
26	40176.A0126	Light - Rear number plate	1
27	40176.A0127	Light - Rear indicator & stop	2
28	40176.A0128	Wiper Motor	2
29	86S.B	Antiluce Fastener	2
30	40176.A0130	Plastic sealer Section	2
31	40176.A0131	Glass (Front windscreen)	1
32	40176.A0132	Retainer - glass	4
33	40176.A0133	Front Insulation	1
34	40176.A0134	Aluminium Frame (Front Lt.cover)	_
35	40176.A0135	Glass (Front light cover)	2
36	40176.A0136	Roof insulation	2
37	40176.A0137	Top Aluminium	1
38	40176.A0138	Top Aluminium support	1
39	40176.A0139	Bottom Aluminium support	1
40	40176.A0140	Spotlights	2
41	40176.40141	Front Indicator lights	2
42		Insulation - Light Box cover	2
43	20277.A01	Cab Floor Trim Retainer (Rear)	1
44	20278.A01	Cab Floor Trim Retainer Front LH	1
	20279.A01	Cab Floor Trim Retainer Front RH	1
45	40124.A02	Safety Guard comp:	
46	40226.A02	Seat	1
47	178S.P505F	Self Tapping Screw (Pan Head	-
		01	A/R
48	20192.A01	Floor Trim	1
49	10120.A01	Rubber door Holder	2
50	11S.02B	Hex. Hd. Screw (Holder to Cab) -	2
		M6 x 20 - (N.I.)	2
51	61S.02	Lock Nut Binx (M6) - (N.I.)	2
52	11S.02C	Hex. Hd. Screw (Holder to Door) -	2
		(M6 x 25) - (N.I.)	2
53	61S.02	Lock Nut Binx (Holder to Door) -	2
		(M6) - (N.I.)	0
		(III) - (N.I.)	2



Item No.	Part No.	Description	Qty.
54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81	8S.05M 17S.06 61S.05 10623.A03 10623.A04 8S.06M 7S.06 17S.08 40176.A0129 40176.A0142 10895.A04 20294.A01 8S.02A 7S.02 17S.03 10911.A010 10911.A0101 10911.A0105 10911.A0105 10911.A0105 10911.A0106 10911.A0107 10911.A0107 10911.A0108 10911.A0109 10911.A0110 10911.A0110 10911.A0111	Bolt - Hex. Hd. M12 x 80) Support Washer - Spring M12) to Nut - M12 Binx) Cab Packer (Cab - Support Pillar) Packer (Cab - Support Pillar - Front) Bolt - Hex. Hd. M16 x 90 (Cab Fixing) Nut - M16 (Cab Fixing) Washer - Spring M16 Bracket - Rear Light & Number Plate Cover - Front Light Box Clamp strip Sunroof guard Bolt M6 x 25 Nut M6 Spring Washer Sunroof Frame - Sunroof Rubber seal insert - Sunroof Screw - Self tapping No.8 - Sunroof Sealant - Sunroof Clamp ring - Sunroof Screw cover insert - rubber - Sunroof 'C' Clamp - Sunroof Screw & stud assembly - 'C' Clamp - Sunroof 'C' slot - Sunroof 'C' slot - Sunroof 'C' slot - Sunroof	4 4 4 4 2 1 2 2 1 2 2 1 8 8 8 1 1 1 A/R A/R 1 1 2 1 2 1 2 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 1 1 2 1 2 1 1 2 1 2 1 1 2 1 1 2 1 1 2 1 2 1 1 2 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 1 2 1 2 1 2 1 2 1 2 1 1 2 1 2 1 2 1 1 2 1 2 1 1 2 1 2 1 2 1 1 2 1 1 2 1 1 2 1 2 1 1 2 1 2 1 1 2 1 1 2 1 2 1 1 2 1 2 1 1 2 1 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 2 1 1 1 2 1 1 2 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1 1 2 1 1 1 2 1 1 1 1 2 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 2 1 1 1 1 1 2 1
1732 .		CAB & SAFETY FRAME SUPPORT	1732
82 83 84 85	10805.A01 11S.05E 17S.06 61S.05	Support Cab	2 8 8 8

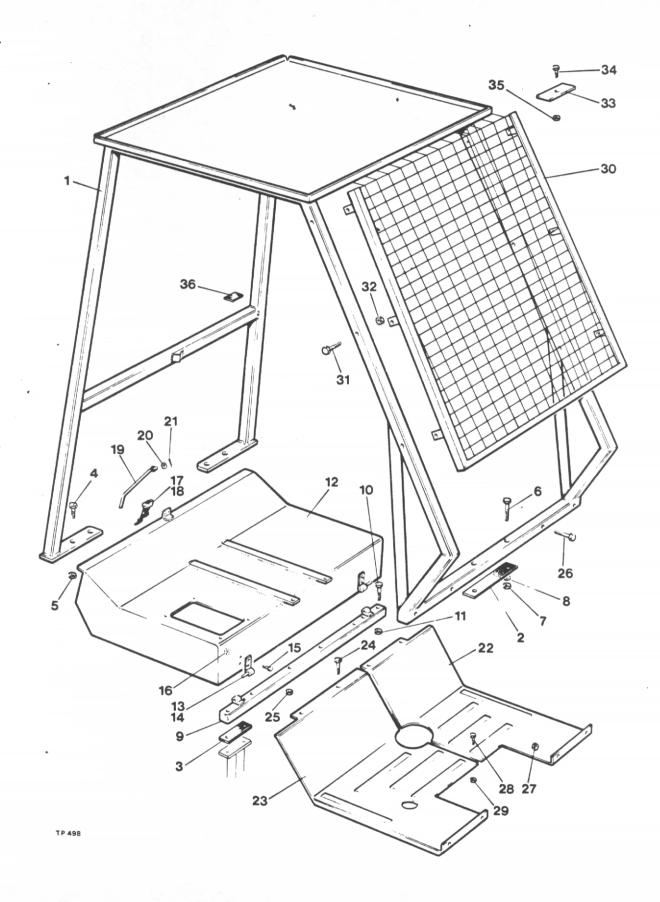
1725 ENGINE COVER



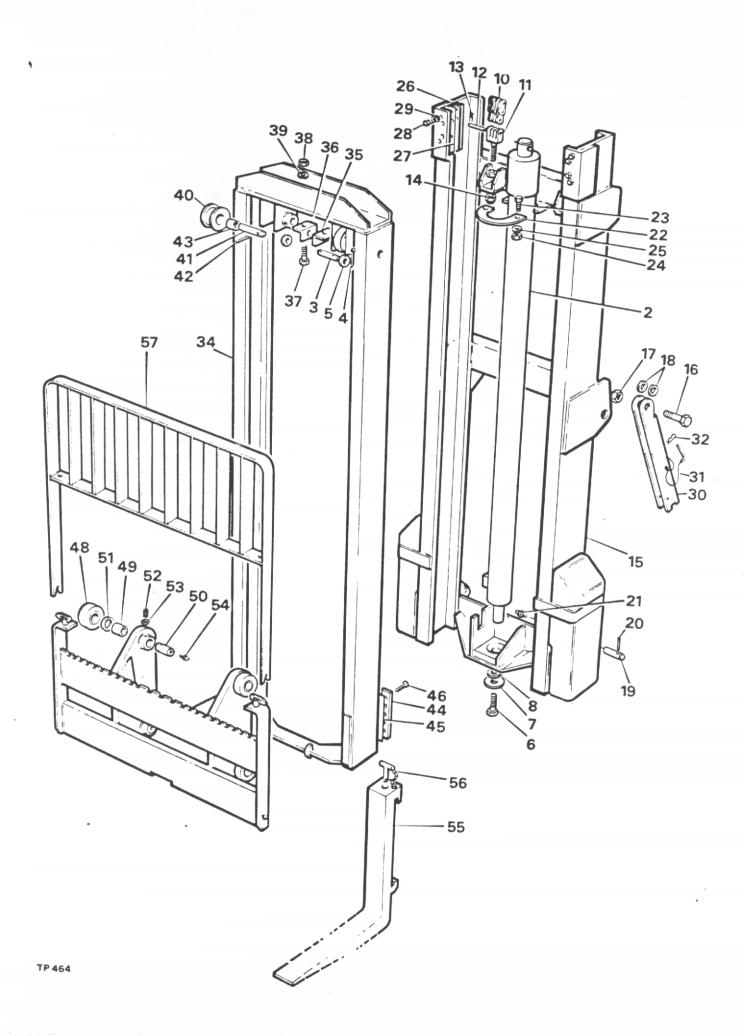


Item No.	Part No.	Description	Qty.
1 2 3	40219.A01 10S.14 44S.01C	Engine Cover Assembly	1 1 1
4 5	FSE.267 101S.075	Catch Assembly - Rubber	2
6	11S.04C	Rivet Screw Hex. Hd. M10 x 25	10 4
7 8	61S.04 12S.05	Nut M10 Binx	4
9.	11S.03A	Washer - Flat M10 Screw Hex. Hd. M8 x 16	4
10 11	125.17	Washer - Flat M8	4
12	61S.03 10846. A 01	Nut M8 Binx	3 1
13	40219.A0128	Bracket (Check Strap)	1
14 15	40219.A0126 11S.03B	Spacer (Check Strap)	2
16	115.03E	Bolt M8 x 20 (Check Strap)	1
17	40219.A0108	Stay	1
18	10917.A01	Rubber Buffer	2
19 20	8S.03B 61S.03	Bolt Hex Hd. M8 x 30 (Buffer Fixing) Nut Binx M8 " "	4

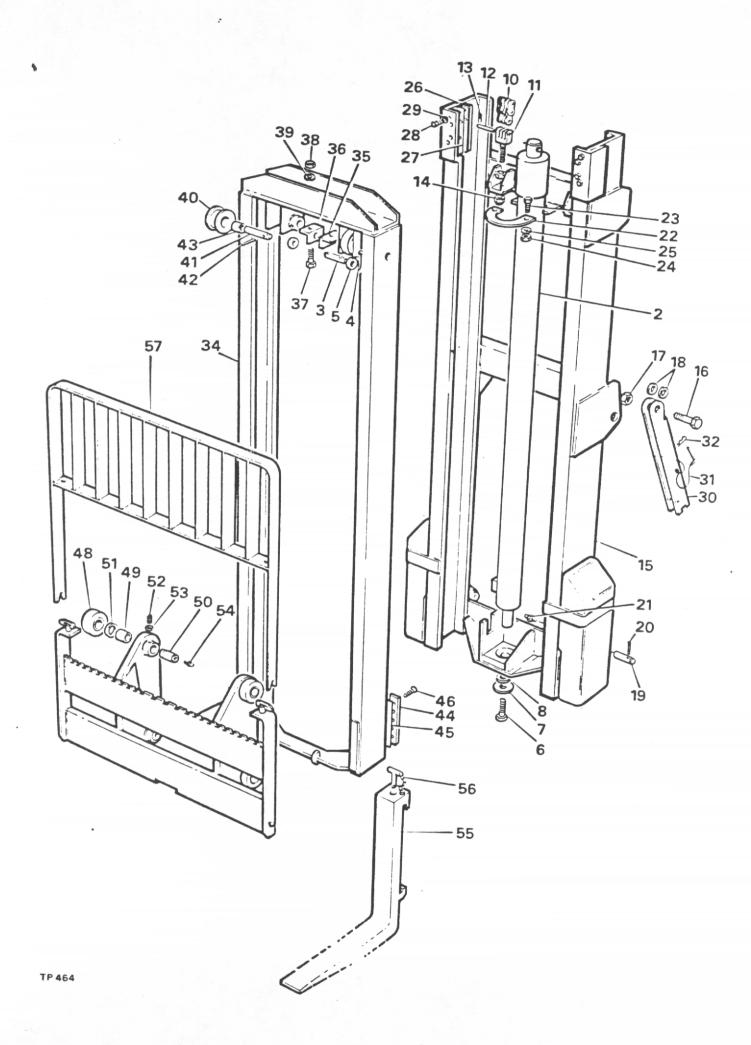
ð	1735		LABELS		1735
	Item No.	Part No.	Description	Qty.	1,35
	1	20235.A07	M/C Identification Label (Cab)		
	2	20235.A08	M/C Identification Label (Mast)	2	
	3	DM.198	Steering Lock Warning Label	2	
	4	10540.A01	Tyre Pressure Label 40 p.s.i.	2	
	5	DM. 201	Forklift Sefety Jahol	4	
	6	10546.A03	Forklift Safety Label	1	
	7	10546.A04	Diesel Fuel Label	1	
	8	10317.A01	Hydraulic Oil Label	1	
	9	DM.196	Chassis Label	1	
	10	ESE.236	Lubrication Label	1	
	11	4-60-233-1	Engine Stop Label	1	
	12	10215.A02	Negative Earth Label	1	
	13	101S.01E	Filter Instruction Label	1	
	14	15S.01A	Pop Rivets	4	
	15	10807.A01	Hammer Drive Screws	4	
	16	10822.A01	Operator Handbook & Parts List	1	
	17		Mast Pointer Label	1	
	18	10810.A01	Overhead Guard Warning Label	1	
	19	10730.A06	Mast Rating Plate	1	
	20	10037.A01	Check Tyre Condition Label	1	
		10281.A01	Tilt Label (Fwd. Back)	1	
	21	10287.A01	Lift Label (Up-Down)	1	
	22	DM.108	Mast Position in Transport Label	1	
	23	10536.A01	Unpropped Cover Warning	1	
	24	10827.A01	lift Ram Stops Warning	1	
	25	10826.A01	wipers - Label	1	
	26	10164.A01	Washers Label	1	
	27	10165.A01	Engine Hour Meter Label	1	
	28	10823.A01	working Lights Label	1	
	29	10824.A01	Side & Headlights Label	1	
	30	10825.A01	indicators L. & R	1	
		FSE 350	Winget Label	2	
	32	10848.A01	Brake Reservoir Top Up Label Warning	1	
	33	10850.A01	Battery Label	1	
	1776				
	1//6	LABELS	(M/c fitted with Safety Frame & no lighting)	1776	ó
	1	20225 407			
		20235.A07	Machine Identification (Cab) Label	2	
		20235.A08	Machine Identification (Mast) Label	2	
		DM.198	Steering Lock Warning Label	2	
	_	10540.A01	Tyre Pressure Label	4	
		DM.201	Forklift Safety Label	1	
		10546.A03	Diesel Fuel Label	1	
	_	10546.A04	Hydraulic Oil Label	1	
		10317.A01	Chassis Label	1	
	_	DM.196	Lubrication Label (Newage Axles)	1	
		ESE 236	Engine Stop Label	1	
		4-60-233-1	Negative Earth Label	1	
		10215.A02	Filter Instruction Label	1	
		101S.05D	Pop Rivets Label	4	
		15S.01A	Hammer Drive Screws Label	8	
		10822.A01	Mast Pointer Label	1	
		10/30.A06	Mast Rating Plate	1	
		1003/.A01	Check Tyre Condition Label	1	
		10281.A01	Tilt Label (FwdBack) Label	1	
		10287.A01	Lift Label (Up-Down) Label	1	
		DM.108	Mast Position in Transport Label	1	
		10536.A01	Unpropped Cover Warning Label	1	
		10827.A01	Tilt Ram Stops Warning Label	1	
		10165.A01	Engine Hour Meter Label	1	
		FSE 350	Winget Label	2	
		10848.A01		2	
	20	10850.A01	Battery Label	1	



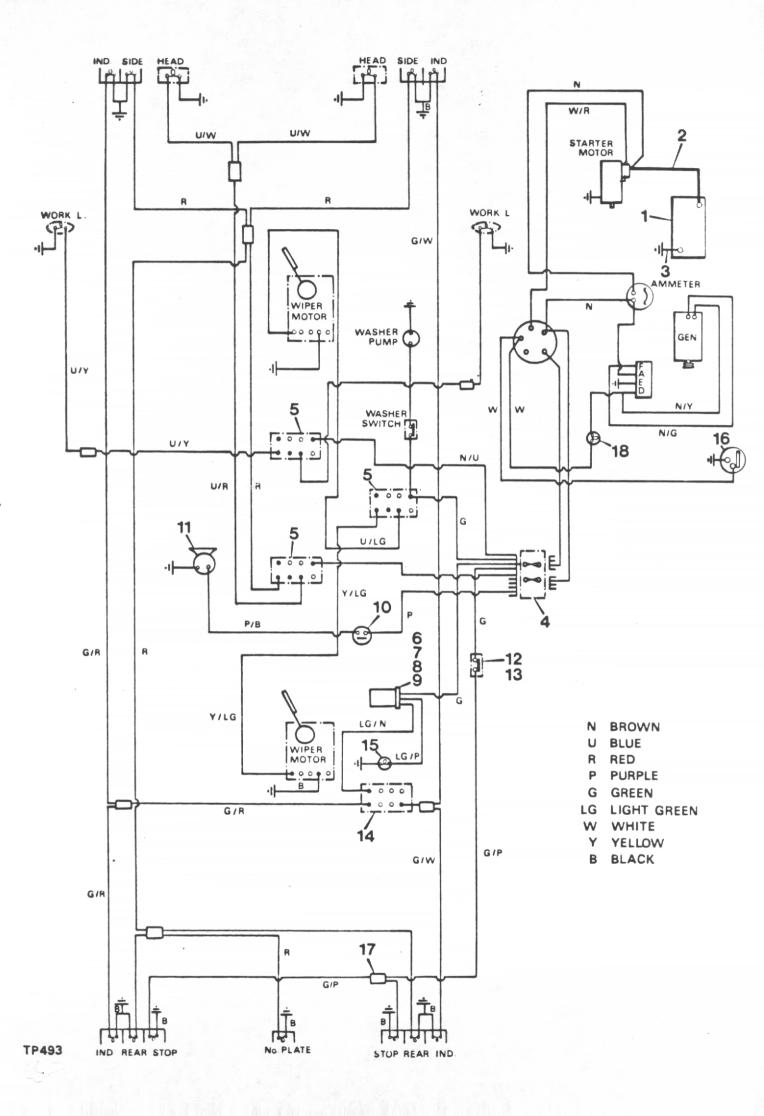
Item No.	Part No.	Description	Qty
1 2 3 4 5 6 7 8	40287.A01 10623.A04 10623.A03 115.06G 615.06 85.06N 75.06 175.08	Safety Frame Mounting Rubber - Front Mounting Rubber - Panel Mounting Support Screw - Hex. Hd. M16 x 45 (Rear Frame to Chassis) Nut - M16 Binx (Rear Frame to Chassis) Bolt - M16 x 90 (Frame to Front Member) Nut - M16 (Frame to Front Member) Washer - Spring M16 (Frame to Front Member)	1 1 2 4 4 2 2 2
9 10 11	20283.A01 8S.05M 61S.05	Panel Mounting Support Bolt - Hex. Hd. M12 x 90 (Support to Pillar) Nut - M12	1 4 4
12 13 14 15 16 17	30295.A01 10867.A01 10867.A02 11S.04B 61S.04 FSE 267 101S.075	Panel - Seat Support Hinge - Seat Support Panel L.H. Hinge - Seat Support Panel R.H. Screw - Hex. Hd. M10 x 20 (Hinge - Seat Panel) Nut - M10 Binx (Hinge - Seat Panel) Catch Assembly (Rubber)	1 1 4 4 1 A/R
19 20 21	10861.A01 10S.14 44S.01C	Stay	1 1 1
22 23 24 25 26 27 28 29	30293.A0101 30293.A0102 8S.05J 61S.05 8S.04K 61S.04 11S.04B 61F.04	Floor Plate (L.H.) Floor Plate (R.H.) Bolt - Hex. Hd. M12 x 65 (Floor Panel to Support) Nut - M12 (Floor Panel to Support) Bolt - Hex. Hd. M10 x 70 (Floor Panel to Front Panel). Nut - M10 (Floor Panel to Front Panel) Screw - Hex. Hd. M10 x 20 Nut - M10 Binx	1 1 4 4 4 2 2
30 31 32 33 34 35 36	30297.A01 8S.05K 61S.05 30297.A0105 11S.04C 61S.04 40287.A0114	Guard - Frame Front Bolt - Hex. Hd. M12 x 70 (Guard to Frame) Nut - M12 Binx (Guard to Frame) Clamp Plate - Guard Screw - Hex. Hd. M10 x 25 (Guard to Roof) Nut - M10 Binx Rubber Pad - Seat Panel to Frame	1 6 6 2 2 2



Item No.	Part No.	Description	Qty.
1		Mast Assembly (See sep.illus.)	
	00115 101		
2	30115.A01	Ram - Lift	1
3	10149.A01	Pin - Ram	1
4	44S.05H	Pin - Split Cotter	2
5	105.08	Washer - Plain 1" I.D	
6		washer - Flain 1 1.D	2
	11S.05C	Screw M12 x 35	1
7	10204.A01	Washer	1
8	C180 A	Washer - Felt	2
			2
9	FSE 187	Chain Assembly (items 10-12)	
10		Chain Assembly (items 10-13)	2
	FSE 187-1	Chain	2
11	FSE 187-2	Tensioner c/w Nut	4
12	FSE 187-3	Pin	4
13	44S.01C	Pin - Split 1/16" Dia. x 1"	
14	1635.06	Tin Spite 1/10 Dia, X I	8
14	1635.06	Nut - Hex. 5/8" BSF	4
		•	
15	40026.A02	Outer Mast (c/w Lateral Stability Ballast Weight)	
		description of a successful season of successful se	
16	F4-45-57	Pole mile no	_
		Bolt - Tilt Ram	2
17	F4-35-110B	Nut 1½" BSF	2
18	F4-45-50	Spacer	4
			7
19	20249.A01	Pin - Pivot	
20			2
	54S.07U	Pin - Tension	2
21	1318.01	Nipple - Grease	2
22	10210.A01	Clamp	1
23	11S.04D	Cotomer - Her Hd Win - 20	1
		Setscrew - Hex. Hd. M10 x 30	2
24	7S.04	Nut - Hex. Hd. M10	2
25	12S.05	Washer M10	4
			·
26	20023.A01	Strip - Rubbing	•
27	10153.A01	Chin - Destrice	2
		Shim - Packing	A/R
28	11S.03B	Screw - Hex. Hd. M8 x 20	8
29	17S.04	Washer - Spring	8
			•
30	30289.A01	Stop - Tilt Ram	•
31	10846.A02	Chan Committee C	2
		Strop - Securing	2 .
32	F4-45-77	Cotter - Spring	2
34	40025.A02	Inner Mast	
34	40023.R02	Timer Mast	
25	101/8		
35	10147.A0101	Bracket L.H	1
36	10147.A0102	Bracket R.H	1
37	8S.05D	Bolt - Hex. Hd. M12 x 40	_
38	7S.05		2
39		Nut - Hex. M12	2
37	17S.06	Washer - Spring M12	2
40	10195.A01	Pulley - Chain	2
41	F4-45-134	Pin	
42	55S.02E	Din - Tongion	2
43		Pin - Tension	2
43	438.01	Bush	2
44	10052.A01	Strip - Rubbing	2
45	10054.A01	Shim - Packing	A/R
46	53S.03D	Screw - Csk. Hd. M8 x 20	8
	3-2	ODK, 110, 110 A 20 ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0

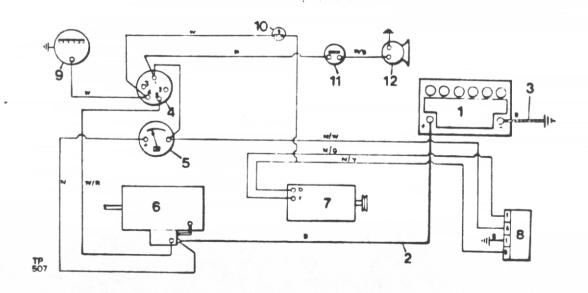


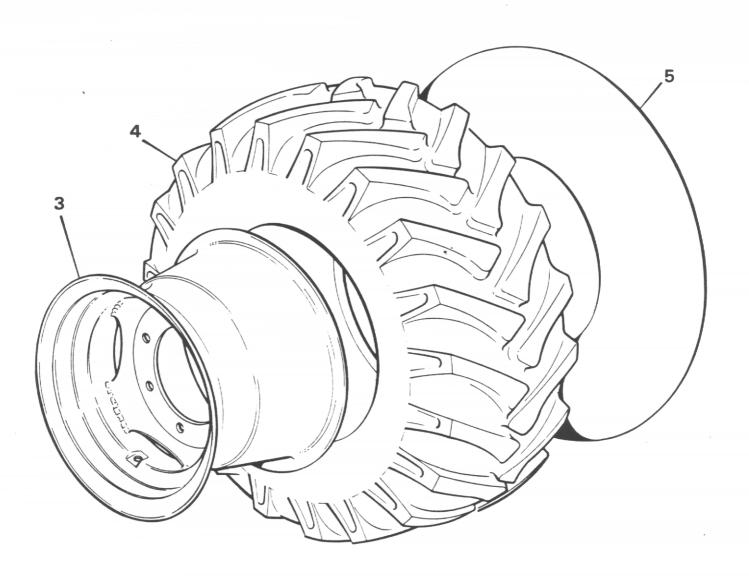
1727		CARRIAGE AND LOAD GUARD ASSEMBLY	172
Item No.	Part No.	Description	Qty.
47	40265.A02	Carriage complete	
48 49 50 51 52 53 54	10192.A01 10150.A04 10113.A02 FSE 396 57S.06G.1 56S.04 131S.03	Roller Bush Pin Shim Setscrew Skt. Cup.Pt. M10 x 20 Nut - Half M10 Nipple - Grease	4 4 4 A/R 4 4
55 56 57	F4-45-199 E288-15 40127.A03	Fork Peg & Chain Guard - Carriage	2 2 1



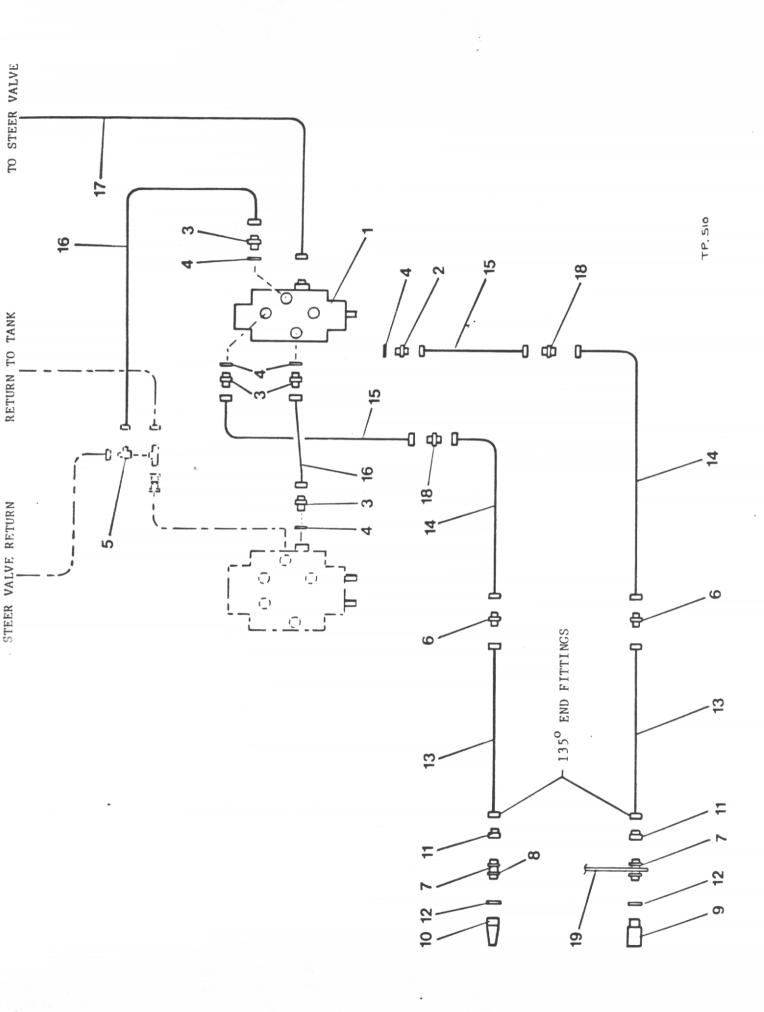
1724	• • • • • • • • • • • • • • • • • • • •	ELECTRICS (Machines fitted with cab only)	1724
Item	No. Part No.	Description	Qty.
1 2 3 4 5	109S.05 10227.A02 10228.A02 10644.A01 10620.A01	Battery	1 1 1 1 3
6 7 8 9	10616.A01 82S.03C 12S.01 85S.01	Flasher Unit Screw - Slot Rd. Hd. 2BA x ½" Washer - Plain M5 Nut - Self Lock	1 2 2 2
10 11	10619.A01 10618.A01	Button - Horn	1
12 13	10744.A01 116S.02	Switch - Brake	1
14 15 16 17 18	10620.A02 10593.A01 10514.A01 SS.2 10593.A03	Switch - Direction Indicator Light - Warning Hourmeter Connector - Double Light - Warning	1 1 1 A/R 1
19 20 21 22 23 24 25 26 27 28	10559.A01 40S.A17 9S.01 30080.A04 30080.A0303 11S.04C 61S.04 30080.A0206 11S.02B 30080.A0408	Clamp - Battery Rod - Tie Nut - Hex. Full ½" UNF Tray - Battery Bar - Locking Screw - Hex. Hd. M10 x 25 Nut - Self Lock M10 Plate - End Screw - Hex. Hd. M6 x 20 Spacer	1 2 8 1 1 2 2 2 2 2
29	30267.A01	Console	1
30 31 32 33	10835.A01 118.02B 78.02 178.03	Cover - Cable	1 4 4
23	1/3.03	Washer - Spring M6	4

1774	• • • • • • • • • • • • • • • • • • • •	ELECTRICAL SYSTEM (M/c Fitted with Safety Frame)	177
Item No.	Part No.	Description	Qty
1 2 3 4 5 6 7 8 9 10 11	109S.05 100227.A02 100228.A02 39243A 291-37050 204-13273 291-36951 064-19099 10514.A01 10593.A03 10619.A01 10618.A01	Battery Cable - Battery - Positive Cable - Battery - Negative Start Switch c/w Keys) Ammeter) Supplied Starter Motor) with Generator) Engine Regulator) Hour Meter Ignition Warning Light Horn Button	1 1 1 1 1 1 1 1 1 1
13 14	11S.02B 61S.02	Horn Screw - Hex. Hd. M6 x 20 (Horn Fixing) Nut - M6 (Horn Fixing)	1 2 2
		Not Illustrated	
15 16	30267.A01 180S.01	Console	1 A/R
17 18 19 20	30080.A05 10559.A03 40S.A17 9S.01	Battery Tray Battery Clamp Tie Rods - 戈" UNF x 8戈" Nuts - 戈" UNF	1 1 2 8
21 22 23 24	20113.A06 11S.02B 61S.02 12S.02	Dynamo Belt Guard Screw - Hex. Hd. M6 x 20 Nuts - M10 Binx Washer - Plain M6	1 2 2 2
25 26 27 28	10835.A02 11S.02B 7S.02 17S.03	Cable Cover Screw - Hex. Hd. M6 x 20 Nut - Hex. M6 Washer - Spring M6	1 4 4 4
29 30 31	10859.A01 698.03C 418.05	Mounting Bracket - Regulator	1 2 2
32	SS.2	Double Connector	A/R

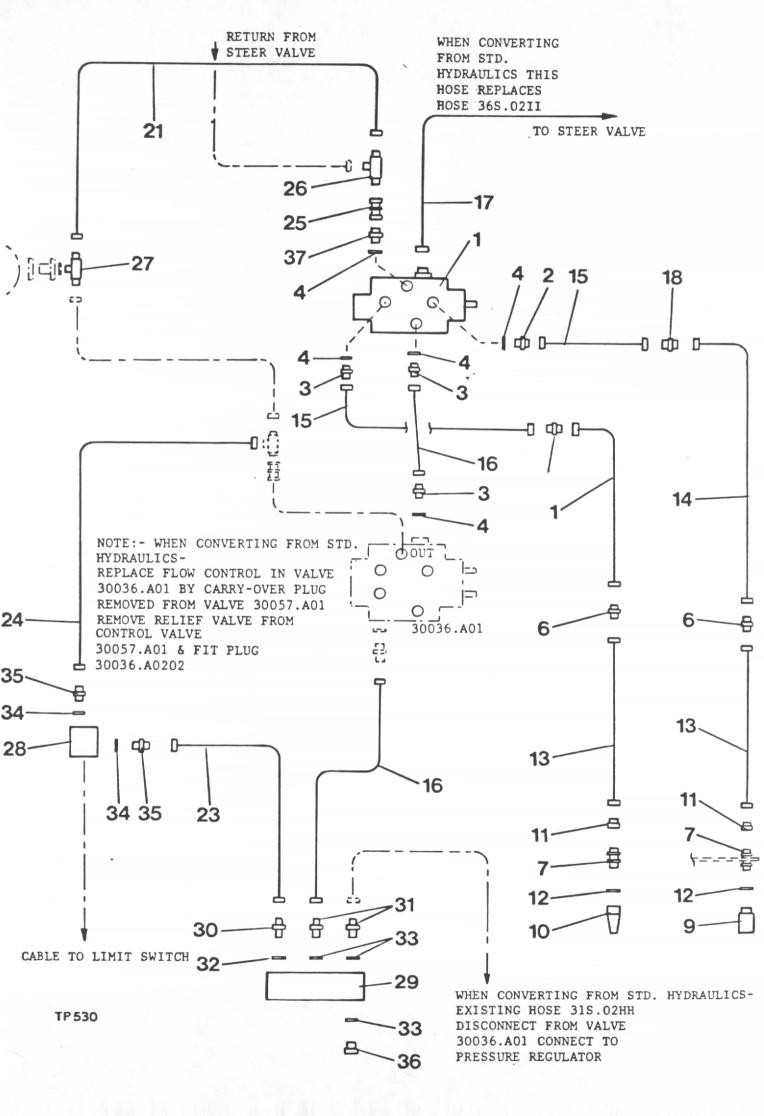




Item No. Part No.	Description	Qty.
1 24S.07 2 24S.08 3 30138.A02 4 20S.02 5 23S.04 6 10668.A02	Wheel Assembly - L.H. Complete Wheel Assembly - R.H. Complete Wheel Tyre 10.5 x 18 x 8 Ply Tube 10.5 x 18 Nuts - Wheel	2 4 4

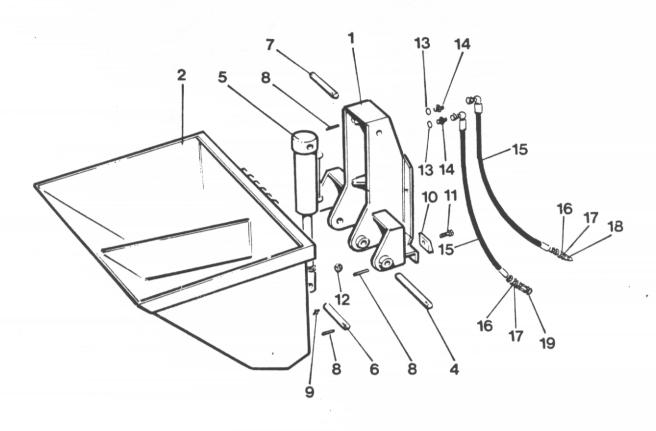


• • • • • • • • • • • • • • • • • • • •	AUXILLIARY SERVICE (OPTION)	1811
No. Part No.	Description	Qty.
30057.A01	Control Valve	1
4/60-158	Adaptor 7/8" JIC x 3/8" BSP (Long)	1
4/60-159	Adaptor 7/8" JIC x 3/8" BSP (Short)	4
498.01	'O' Ring	5
1545.02	Tee 3/8" BSP M x M	1
4/60-189	Adaptor 3/8" x 1/4" BSP M x M	2
935.01	Bulkhead Fitting 3/8" BSP M x M	2
728.01	Locknut 3/8" BSP	2
10151.A01	Pull Break Carrier Coupling 3/8" BSP	1
10152.A01	Pull Break Probe Coupling 3/8" BSP	1
1128.05	Adaptor 1/4" x 3/8" BSP M x F	2
100S.03	Dowty Seal 3/8" BSP	2
33S.01C	Hose ST x 135° x 6655mm Long	2
35S.02B	Hose ST x ST x 1803mm Long	2
35S.02D	Hose ST x ST x 1295mm Long	2
31S.02AA	Hose ST x 90° x 508mm Long	2
36S.02A	Hose 90°x 90° @ 315° x 2489 Long	1
1228.03	Adaptor M x M 3/8" BSP	2
10900.A01	Coupling - Mounting Plate	1
30036.A0202	Blanking Plug	1
	No. Part No. 30057.A01 4/60-158 4/60-159 49S.01 154S.02 4/60-189 93S.01 72S.01 10151.A01 10152.A01 112S.05 100S.03 33S.01C 35S.02B 35S.02D 31S.02AA 36S.02A 122S.03 10900.A01	30057.A01



AUXILLIARY SERVICE & DE. RATE

Item 1	Part No. 30057.A01	Description	Qty.
2	4-60-158	Control Valve	1
3		Adaptor 7/8" JIC x 3/8" B.S.P. (Long)	1
4	4-60-159	Adaptor //8" JIC x 3/8" B.S.P. (Short)	3
5	498.01	'O' Ring	5
6	154S.02	lee 3/8 B.S.P. F x M x M	1
7	4.60.189	Adaptor 3/8" x 1/4" B.S.P. MxM	2
8	93S.01	Bulkhead Fitting 3/8" B.S.P. M x M	2
9	72S.01	Locknut 3/8" B.S.P.	2
-	10151.A01	Pull Break Carrier Coupling 3/8" B.S.P.	1
10	10152.A01	Pull Break Carrier Coupling 3/8" B S P	1
11	1128.05	Adaptor MXF 1/4" x 3/8" B.S.P.	2
12	100S.03	Dowty Seal 3/8" B.S.P.	2
13	33S.01C	Hose St 135° x 6655 Long	2
14	35S.02B	Hose St. x St. x 1803 Long	2
15	35S.02D	Hose St. x St. x 1295 Long	2
16	31S.02AA	HOSE ST. 90° v 508 Tong	2
17 18	36S.02A	nose you a you waste at 210 x 2409 Long	1
19	122S.03	Adaptor M x M 3/8" B.S.P	2
20	20026 40202		
21	30036.A0202	Blanking Plug	1
22	31S.03K	Hose St 90° x 1702 Long	1
23	260 00**		
24	36S.02U	Hose 90° - 90° @ 90° x 432 Long	1
	35S.02K	Hose St St. x 457	1
25	1648.05	Adaptor F x F 1/2" B.S.P.	1
26	1138.01	Tee 1/2" x 1/2" x 3/8" B.S.P.	1
27	1218.05	Tee 1/2" x 1/2" x 1/2" B.S.P.	1
28	10785.A01	Solenoid Valve	1
29	10784.A01	Pressure Regulator	1
30	1198.03	Adaptor 3/8" x 1/4" B.S.P. M x M	1
31	1198.08	Adaptor 1/2" x 3/8" B.S.P. M x M	1
32	100S.02	Dowty Seal 1/4" B.S.P	1
33	100S.04	Dowty Seal 1/2" B.S.P	3
34	100S.03	Dowty Seal 3/8" B.S.P	2
35	122S.03	Adaptor 3/8" x 3/8" x B.S.P. M x M	2
36	127S.04	Plug Hex. Hd. 1/2" B.S.P	1
37	DSE.115	Adaptor 7/8" JIC x ½" B.S.P.	1



Item No.	Part No.	Description	Qty
	GSE 143	Hydraulic Bucket Assembly	1
1	GSE 141	Back Frame	1
2	GSE 142	Bucket	1
3	20DU.20	Glacier Bush (Not Illustrated)	4
4	GSE 135-6	Pivot Pin	2
5	30169.A01	Hydraulic Ram	1
6	GSE 135-1	Ram Pin	1
7	GSE 135-5	Crosshead Pin	1
8	F4-45-216	Tension Pin 8mm	4
9	5ST-100	Grease Nipple	2
10	GSE 147	Lower Clamp	2
11	8S.05F	Bolt - M12 x 50	2
12	7S.05	Nut - M12	2
13	T14H	Sealing Washer	2
14	T63K	Adaptor ½" BSP x 2/8" BSP	2
15	4-60-139	Hose	2
16	T14J	Adaptor 3/8" BSP x 3/8" BSP	2
17	T14I	Sealing Washer 3/8" BSP	2
18	10151.A01	Snap Coupling Probe	1
19	10152.A01	Snap Coupling Carrier	1

DECIMAL, FRACTIONAL AND METRIC EQUIVALENTS

Inches				Milli-		Inches			
Fractions Decim			Decimals	metres		Decimals	Milli- metres		
1/64				0.397				13.097	
	1/32 -			0.794		17/32	0.53125	13.494	
3/64			0.046875	1.191	35/64		0.546875	13.891	
		1/16 —	0.0625	1.588		9/1	6 - 0.5625	14.288	
5/64				1.984	37/64		0.578125	14.684	
		1 (A) (A) (A)		2.381		19/32	0.59375	15.081	
7/64				2.778	39/64		0.609375	15.478	
		1/8 —		3.175			0.625	15.875	
9/64				3.572	41/64		0.640625	16.272	
	5/32 -		0.15625	3.969		21/32		16.669	
11/64	5/32 -		0.171875	4.366	43/64		0.671875	17.066	
		3/16 -	0.1875	4,763		11/1	6-0.6875	17.463	
13/64			0.203125	5,159	45/64		0.703125	17.859	
	7/32 -			5.556		23/32 ———		18.256	
15/64 -				5.953	47/64			18.653	
		1/4 —	0.250	6.350		3/4	- 0.750	19.050	
17/64		3,5	0.265625	6.747	49/64		0.765625	19,447	
	9/32 -		0.28125	7.144		25/32		19.844	
			0.296875	7.541			0.796875	20.241	
		5/16 —		7.938	0.,,0.		6-0.8125	20.638	
21/64 -				8.334	53/64 -	10/1	0.828125	21.034	
	11/32 -			8.731		27/32		21.431	
23/64 -	0,400		0.359375	9.128			0.859375	21.828	
		3/8 —	0.375	9.525				22.225	
25/64 -	100		0.390625	9.922	57/64	7/8	0.890625	22.622	
	13/32 —		0.40625	10.319	37704	29/32		23.019	
	10/02			10.716	59/64 -		0.921875	23.416	
.,,,,,		7/16 —		11.113	33/04	15/1	6-0.9275	23.813	
9/64 -				11.509	61/64	10/1	0.953125	24.209	
20,04	15/32 —			11.906	01/04	31/32	0.000125	24.209	
31/64 -				12.303	63/64 -		0.984375	25.003	
-1/04		1/2 —		12.700	03/04	1		25.003	

INCHES INTO MILLIMETRES

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

Use in conjunction with above table.

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

84" = 2133.60 mm.

5/8" = 15.875 mm.

84 5/8" = 2149.475 mm.

CALIFORNIA

Proposition 65 Warning

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