

OPERATING INSTRUCTIONS & SPARE PARTS LIST

2SE DIESEL DUMPER (CAPACITY 15 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 2SE Dumpers

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

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

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

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

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

MACHINE MODIFICATION

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

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

TRAINING

WARNING Only trained operators should use this machine.



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

It is strongly recommended that operators read the H.S.E. publication "Safe with Small Dumpers" which is available from government bookshops (HMSO) or from other bookshops quoting the following number ISBN 011 8836935. Another useful publication is British Standard number BS 6264, "Procedure for Operator Training For Earth Moving Machinery" available from the British Standard Institution.

RUNNING-IN

WARNING While a gradual 'running-in' of a new engine is not necessary, it is extremely important that the instructions given in Section 2 "Operation" on "Running-in a new engine" should be followed very closely during the first fifty hours of operation.

DRIVING



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

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

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

ALWAYS check wheel nut tightness daily.

NEVER carry passengers.

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

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

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

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

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

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

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

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

ALWAYS keep the floor plates and walkways clean.

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

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

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

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

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

SKIPS AND LOADING

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

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

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

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

ALWAYS take extra care when tipping non free running loads.

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

TOWING

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



Dumpers are not designed as towing vehicles. However, trailers may be towed provided that:

- 1 The combined weight of the trailer and its load does not exceed the dumper "drawbar pull of 250kg (2500N)" and dumper "drawbar load of 50kg (500N)".
- 2 Trailers may be towed in first gear on level dry ground, provided a purpose made towing pin is used.
- 3 The dumper skip must be loaded with half the rated payload to ensure tyre adhesion when braking.

NEVER tow loads up, down or across gradients.

GRADIENTS

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

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

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

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

ALWAYS drive forwards up gradients when loaded.

ALWAYS reverse down gradients when loaded.

ALWAYS keep the load facing uphill.

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

NEVER attempt to turn on a gradient

NEVER tow up, down or across a gradient.

NEVER operate high discharge or rotating skips on gradients.

HYDRAULICS

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

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

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

NEVER leave the machine unattended with pressure in the system.

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

ALWAYS practise the greatest cleanliness in maintaining hydraulic components.

SERVICING

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

ALWAYS conform to service schedules except where:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

PREPARATION FOR USE

BEFORE THE DUMPER IS PUT INTO SERVICE ALWAYS CHECK THE FOLLOWING POINTS:-

(See Fig. 1)

1. Engine

Check the oil level on the dipstick (A), topping up if necessary to the full mark. See also 'Recommended Lubricating Oils', page 12.

2. Gearbox

Check the oil level on the dipstick (B), topping up if necessary to the full mark. See also 'Recommended Lubricating Oils', page 12.

3. Drive Axle

Remove level plug (C) and check that oil is up to bottom of hole. Top up if necessary through filler plug (D). See also 'Recommended Lubricating Oils', Page 12.

4. Steering box

Remove oil level/filler plug (E) (accessible through bracket) and top up if necessary. See also 'Recommended Lubricating Oils' Page 12.

Fuel Tank

Remove filler cap (F) and fill 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.

6. Miscellaneous

Check all wheel nuts for tightness.

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

Hydraulic Brake System (if fitted)

Ensure the brake master cylinder reservoir is full of brake fluid. Top up if necessary to within 1/4" of the top of the reservoir. Use only brake fluid that conforms to SAE. J 1703.

N.B. For further Lubrication information see Fig. 5 and corresponding text (pages 8 & 9).

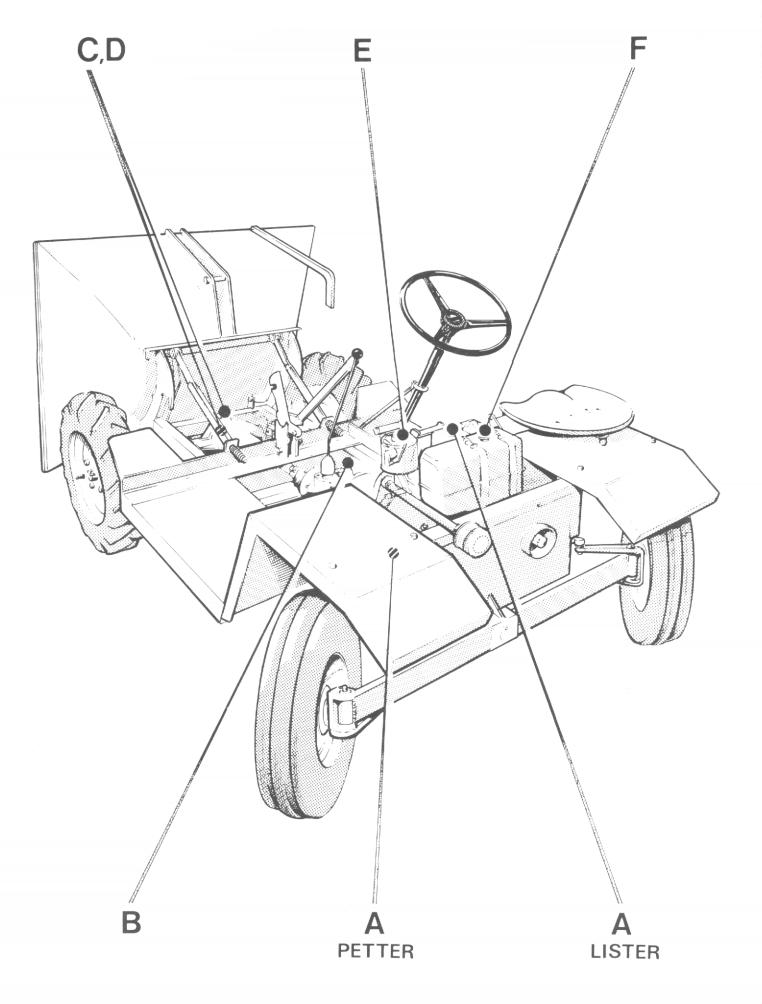
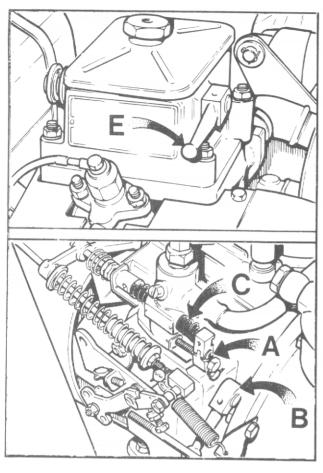


FIG.1

TP 084



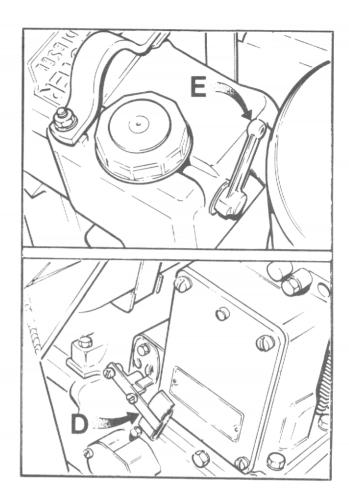


FIG 2

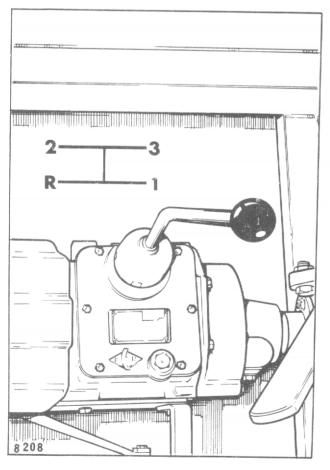


FIG 3

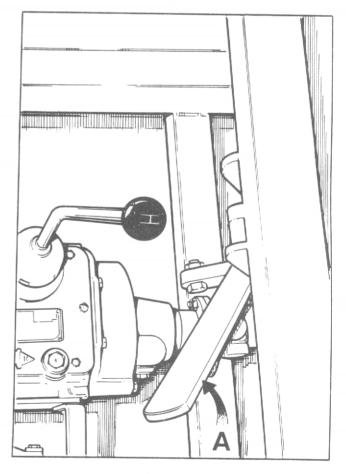


FIG 4

FIG 5

OPERATION

Starting

PETTER ENGINE

(See fig. 2)

- 1. Lift red-painted overload stop (A) situated on fuel pump immediately above priming lever (B), and move fuel pump racks (C) into fully-open position.
- 2. Operate priming lever (B) six times.

NOTE: This is unnecessary if engine is already warm.

- 3. Lift decompression lever (E), positioned on top of engine and turn engine as fast as possible using starting handle. When engine is turning at a good speed knock down decompression lever and engine should fire.
- 4. If engine does not fire, lift decompression lever and slowly crank engine a few times before attempting to start again. Where ambient temperature is 5°F (-15°C) or below, a cold starting aid should be fitted.

LISTER ENGINE

(See fig. 3)

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

NOTE: This is unnecessary if engine is already warm.

- 2. Lift decompression lever (E), positioned on top of engine and turn engine as fast as possible using starting handle. When engine is turning at a good speed knock down decompression lever and engine should fire.
- 3. If engine does not fire, lift decompression lever and slowly crank engine a few times before attempting to start again. Where ambient temperature is 5°F (-15°C) or below, a cold starting aid should be fitted.
- 4. Set overload lever (D) horizontal when engine starts.

Stopping

PETTER ENGINE

(See fig. 2)

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

LISTER ENGINE

(See fig. 3)

Push overload lever (D) to its lowest position.

IMPORTANT:

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

NOTE: LISTER ENGINE has a self-bleeding fuel system.

Gear Shift Lever (See Fig. 4)

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

Skip Release Lever (See Fig. 5)

- 1. To tip the skip pull release lever (A) far enough back to release catch pin. If two position catch is fitted skip will then tip to mid position. Further movement of lever will release catch from mid position. To release from load position to fully tipped position when two position catch is fitted, pull release lever fully back.
- 2. To return skip to parked position pull it back using tip handle, and ensure that skip locates in second notch on release lever (A).

GENERAL MAINTENANCE

Periodic Maintenance

- DAILY check engine oil level and fill to full mark on dipstick, if necessary.
- 2. DAILY fill fuel tank, Never allow there to be a depth of less than 2" of fuel in tank.
- 3. WEEKLY check oil level in gearbox and fill to full mark on dipstick, if necessary.
- 4. WEEKLY remove level plug from drive axle. Oil level should be to bottom of hole. Top up, if necessary.
- 5. WEEKLY remove level/filler plug from steering box and top up if necessary.
- 6. WEEKLY apply grease to all grease nipples.
- 7. WEEKLY check all wheel nuts and tighten if necessary.
- 8. WEEKLY check tyre pressures (32 lbs./sq. in.)
- 9. OCCASIONALLY check all nuts and bolts and tighten, if necessary.

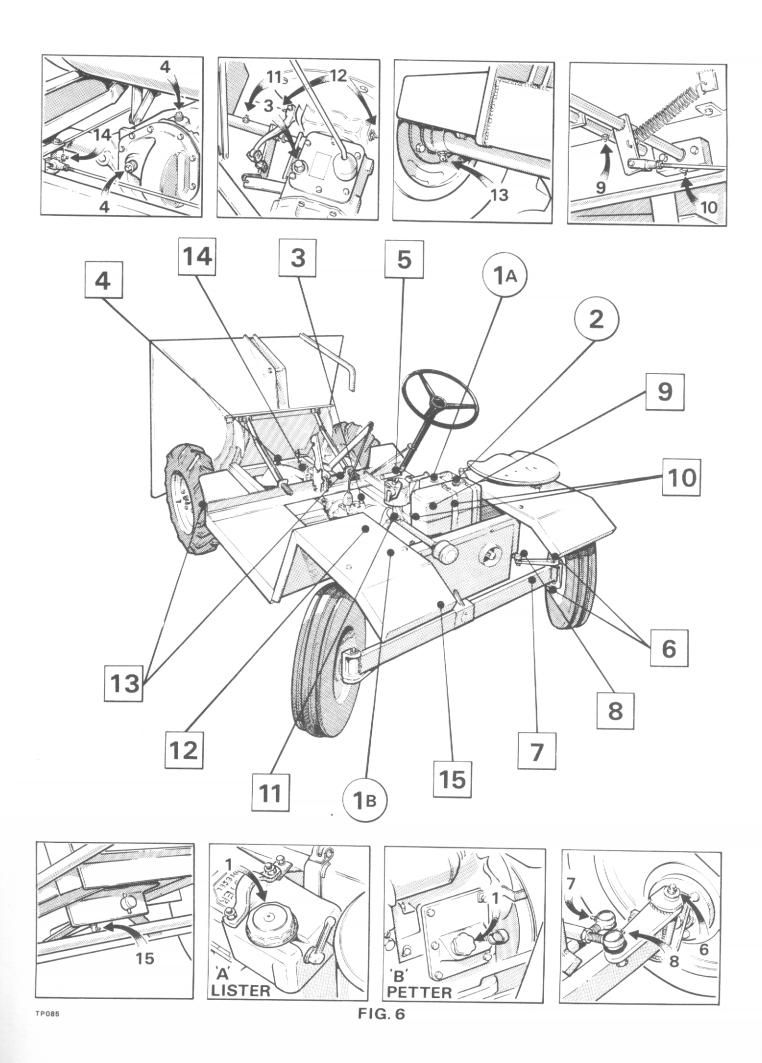
Lubrication (See fig 6)

Period	Key to Fig.	Description	Lubrication	No. of points
Daily	1 2	Engine Fuel tank	Engine oil Diesel Fuel	1 1
Weekly	3 4 5 6 7 8 9 10 11 12 13 14 15	Gearbox Drive Axle Steering box King pins Track rod ball ends Drag link ball ends Accelerator Pedal Footbrake Pedal Pivot Blocks Clutch Pedal Clutch C ross shaft Drive Axle Hub bearings Brake compensator lever Steering Axle pivot	Gearbox oil Axle oil Axle oil Grease Gun	1 1 4 2 2 1 2 1 2 2 1

NB. FOR RECOMMENDED LUBRICATING OILS SEE CHART ON PAGE 12.

Oil Capacities

FOR FULL DETAILS OF THE LUBRICATION AND MAINTENANCE OF THE ENGINE REFER TO MANUFACTURERS MANUAL.

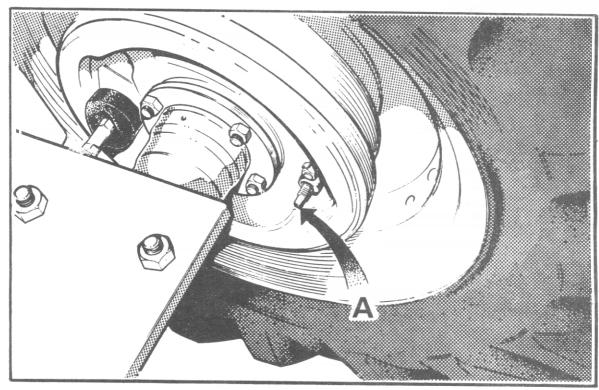


Brake Adjustment (See fig. 7)

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

WARNING

IF FOR ANY REASON THE ENGINE OR DRIVE AXLE IS REMOVED, WHEN RE—ASSEMBLING MAKE SURE THE PROP. SHAFT IS FULLY SECURED TO THE ENGINE AND DRIVE AXLE BEFORE TIGHTENING UP THE ENGINE/DRIVE AXLE MOUNTINGS. THIS IS TO PRESERVE THE CORRECT FIXED LENGTH OF THE PROP. SHAFT WHICH IS VITAL TO THE CORRECT RUNNING OF THE DUMPER.



TP 087

FIG. 7

SPECIFICATION

	See Fi	g.8							
	Α	Overall hei				4f	t. 6in.	(1372 mm)	
	В	Skip loadir	ng height				t. 2in.	(965 mm)	
	С	Wheelbase					t. 3½ in.	(1613 mm)	
	D	Overall Lei				8f	t. 5 in.	(2565 mm)	
	E F	Ground cle					8in.	(203 mm)	
		Overall wid				5f	t 1½in.	(1562 mm)	
	G H	Skip groun	d clearance	when tipped			4in.	(102 mm)	
	J	Overall bei	ght when ti	when tipped	nidway		t. 4in.	(711 mm)	
	K		forward of t			41	t. 6in.	(1372 mm)	
	Ĺ	Overhang	ioi wai u oi i	.yre		24	11in. t. 1in.	(279 mm)	
	M	Wheel trac	k				t. 5½in.	(635 mm) (1359 mm)	
	N	Prow widtl					t.10in.	(1473 mm)	
								(14/3 11111)	
		Turning Ci					t. 9in.	(7544 mm)	
		Vehicle we Articulation					cwt	(813 kg)	
		Articulatio	ori			11	t. 2in.	(356 mm)	
	Skip (Capacities							
	Water	level		16 cu. ft		(.4	453 cu.m.)		
	Struck			16 cu. ft		(.4	453 cu.m.)		
		d capacity		26 cu. ft		(.7	736 cu.m.)		
	Maxin	num Payload		1680 lbs.		(7	62.72 kgs.)		
	Road	Speeds at 16	50 R.P.M. (Petter Engine)		m.p.h.	k.p.h.	
						1st	2.2	3.5	
						2nd	5.0	8.0	
						3rd	9.25	14.9	
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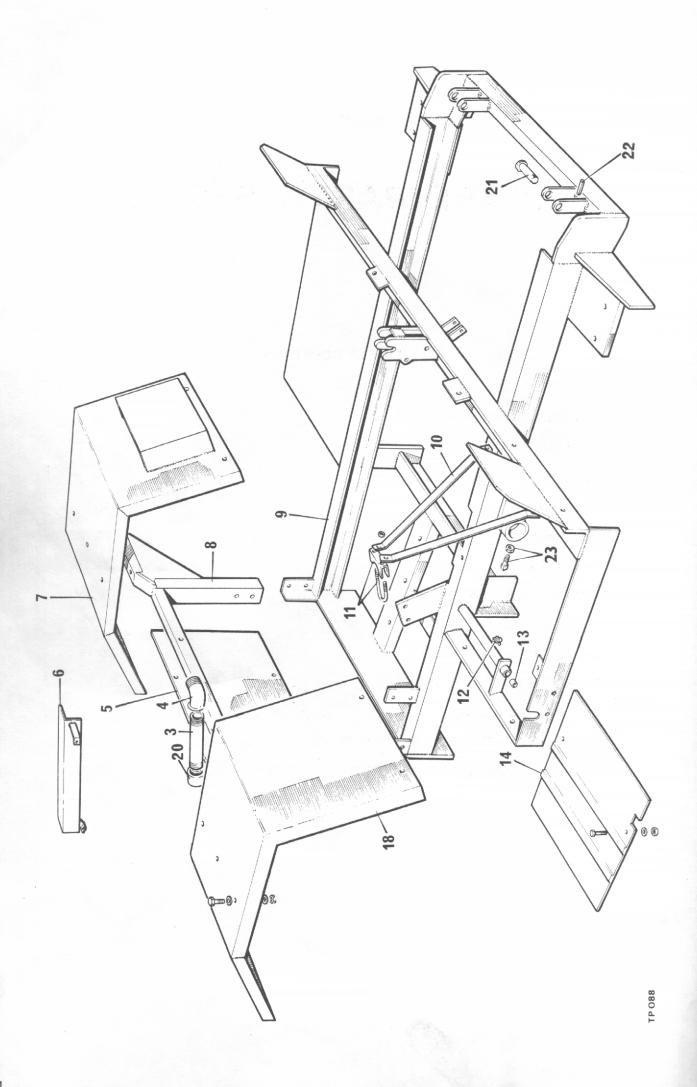
RECOMMENDED LUBRICATING OILS

HYDRAULIC SYSTEM	NUTO H44	NUTO H 54 NUTO H 44 NUTO H 40		CASTROL HYSPIN AWS 32		TELLUS OIL 27		ENERGOL HLP 65		DTE 24			CENTURY PWLA HYD OIL	CENTURY PWLA HYD OIL	
WHEEL BEARINGS & OTHER GREASE POINTS	BEACON 2	BEACON 2	CASTROL SPHEEROL APT 2	CASTROL SPHEEROL APT 2	RETINAX A	RETINAX A	ENERGREASE L2	ENERGREASE L2		MOBILGREASE MP MOBILGREASE	N N N N N N N N N N N N N N N N N N N		REGULUS A2	REGULUS A2	AILABLE
GEARBOX	ESSOLUBE HDX 30	ESSOLUBE HDX 30	DEUSOL CRB 30	DEUSOL CRB 30	ROTELLA SX OIL 30	ROTELLA SX OIL 30	VANELLUS M30	VANELLUS M30	DELVAC 1230			DEL VAC 1230	CENTLUBE HD 30	CENTLUBE HD30	IN THE UNLIKELY EVENT OF THE ABOVE OILS NOT BEING AVAILABLE
TRANSFER BOX & DRIVE AXLE	GEAR OIL GP 90/140	GEAR OIL GP 140 GEAR OIL GP 90/140 GEAR OIL GP 80	DEUSOL GEAR EP 90	DEUSOL GEAR EP 140 DEUSOL GEAR EP 90 DEUSOL GEAR EP 80	SPIRAX 90 EP	SPIRAX 140 EP SPIRAX 90 EP SPIRAX 80 EP	GEAR OIL SAE 90 EP	GEAR OIL SAE 140 EP GEAR OIL SAE 90 EP GEAR OIL SAE 80 EP	MOBILUBE HD 90 MOBILUBE GX 90	MOBILUBE HD 140 MOBILUBE GX 140	MOBILUBE HD 90 MOBILUBE GX 90	MOBILUBE GX 80 MOBILUBE GX 80	CENTURY EP 90	CENTURY EP 140 CENTURY EP 90 CENTURY EP 80	THE UNLIKELY EVENT OF T
ENGINE	ESSOLUBE HDX 20W	ESSOLUBE HDX 30 ESSOLUBE HDX 20W ESSOLUBE HDX 10W	DEUSOL CRB 20	DEUSOL CRB 30 DEUSOL CRB 20 DEUSOL CRB 10	ROTELLA SX OIL 20/20W	ROTELLA SX OIL 30 ROTELLA SX OIL 20/20W ROTELLA SX OIL 10W	VANELLUS M20W	VANELLUS M30 VANELLUS M20W VANELLUS M10W	DELVAC 1220	DELVAC 1230	DELVAC 1220	DELVAC 1210 DELVAC SPECIAL 10W-30	CENTLUBE HD 20	CENTLUBE HD 30 CENTLUBE HD 20 CENTLUBE HD 10	N
COMPANY	(U.K.) SUMMER	ABOVE 32°C 0-32° (Overseas) BELOW 0°C	(U.K.) SUMMER WINTER	CASTROL ABOVE 32°C 0-32°C BELOW 0°C	(U.K.) SUMMER WINTER	SHELL ABOVE 32°C 0-32°C 0-32°C (Oversees) BELOW 0°C	(U,K,) SUMMER WINTER	ABOVE 32° C $0-32^{\circ}$ C (Overses) BELOW 0° C	(U.K.) SUMMER WINTER	ABOVE 32°C	0-3Z ₀ C	(Overseas) BELOW 0°C ALL TEMPERATURES	(U.K.) SUMMER WINTER	Overseas BELOW 0°C	

SPARE PARTS SECTION

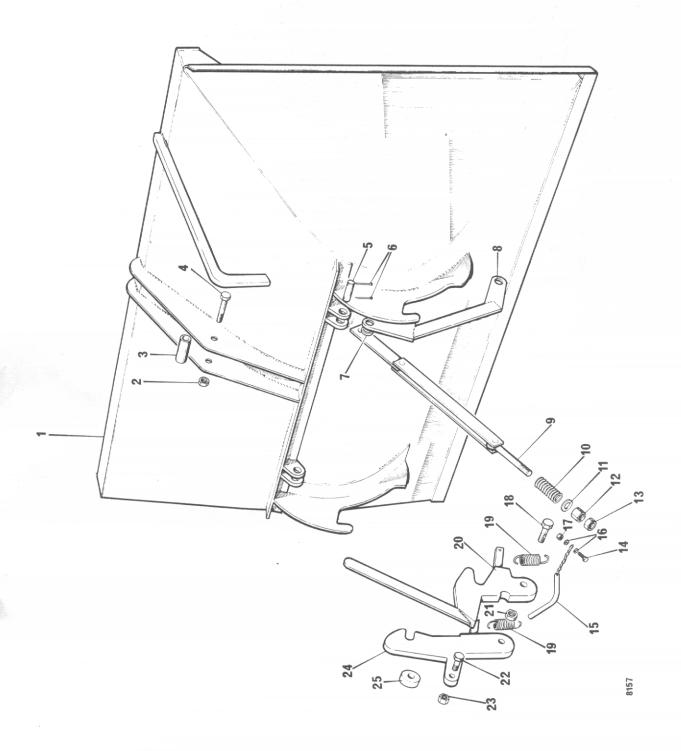
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CHASSIS MUDWINGS AND COVERS

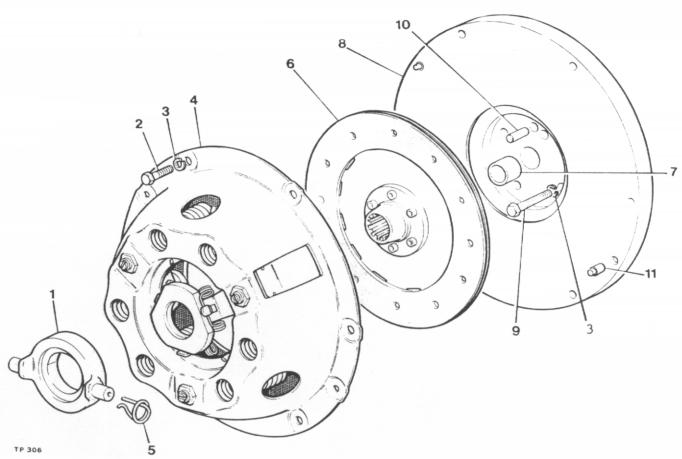
Item No.	Part No.	Description	Qty
2	20072.A01	Seat	1
3	2 SE 100 2 SE 95	Exhaust Pipe (Petter)	1
4	C 165-3 2 SE 98	Elbow 1" BSP Male & Female – (Petter) Elbow 1" BSP Male & Female – (Lister)	1
5	2 SE 94	Rear Cover (Lister)	1
6	2 SE 88 20108.A01	Exhaust Shroud (Petter)	1
7 8	2 SE 61 2 SE 96	Left Hand Mudwing	1
9	2 SE 60 2 SE 59	Chassis (Petter)	1
10 11	2 SE 83 SYC 3	Steering Column Brace	2
	SYC 7	Ball type only)	1
12	T90	Grease Nipple	1 2
13 14	WB0808 2 SE 85 2SE 118	Bush	1
18	40053.A01	Right hand mudwing	1
20	C165-2	Socket 1" BSP (Petter)	1
21	2SE 102 2SE 106	Socket 1¼ BSP (Lister)	1 2 2
22 23	C 129A C.212	Tension Pin	2
	69SQ2E 41SQ4	Bolt (Seat fixing)	4
	DM 159 DM 154	M/c Identification & payload - Label WINGET - Label	1
	DM 180 DM 197	Winget Dumper Safety - Label	1



SKIP AND LINKAGE

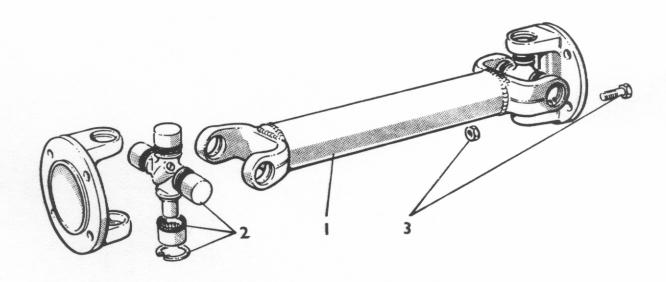
Item No.	Part No.	Description	Qty
1	2 SE 63	Skip	
2		Nut 5/8" BSF	1
3	C 140 A	Tube	
4		Bolt 5/8" BSF x 4.1/2" Long	1
5	2 SE 69	Pin — (Check Chain)	
6		Split Pin 1/8" x 1" Long	
7	2 SE 73	Spacer	
8	2 SE 70	Radius Rod	
9	2 SE 68	Skip Check Link	
10	C173 A	Spring	2
11	C143 B	Plain Washer	2
12	0140 0	Nut 1/2'' BSF	
13		Locknut 1/2" BSF	
14	0.05.00	Setscrew 1/4" BSF x 1.1/2" Long	
15	2 SE 99	Pin and Chain	
16		Washer 1/4" Flat	
17		Nut 1/4" BSF	1
18		Bolt 5/8" UNF x 3½" long	
19	C 173 B	Spring	
20	2 SE 67	Skip catch Handle Assembly	1
21		Nut 5/8" BSF	1
22		Bolt 1/2" BSF x 1.1/4" Long	
23		Nut 1/2" BSF	
24	2 SE 97	Midway Catch	
25	10560 401	Spacer in Liou of Midway Cotch	1

FLYWHEEL AND CLUTCH ASSEMBLY



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

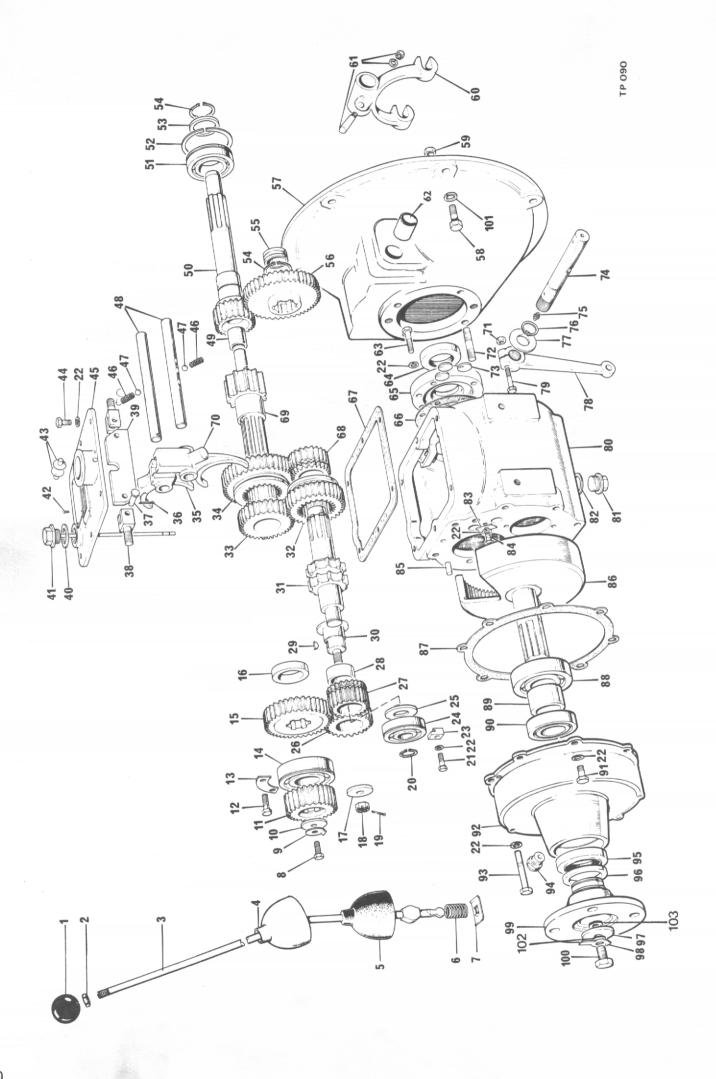
It is recommended that instead of drilling the head of the bolts (item 9) for locking wire that one of each of tabwashers part no's 10531A02 and 10531A03 are used to prevent the bolts working loose.



TP 089

PROPSHAFT

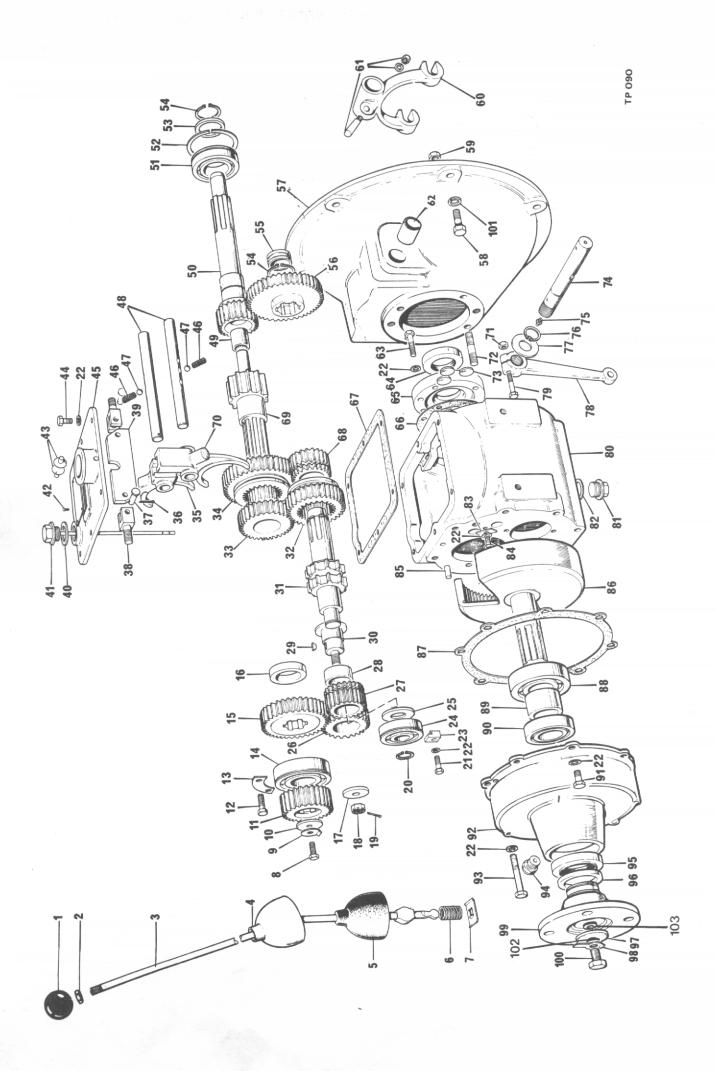
Item No.	Part No.	Description	Qty.
1	20265A01	Propshaft	1
intercha	erent propshafts hav ngeable the repair ki niversal joint before p	e been fitted in the past, whilst shafts are ts are not. When ordering spares check din placing order	nensions
2	10313A04	Kit UJ, 63mm across, 22mm Cups	2
2	V601300	Kit UJ, 63mm across, 27mm Cups	2
3	6S02Z	Bolt 5/16"UNF x 1"	8
3A	107S02	Nut Nyloc 5/16UNF	8



GEARBOX 40M/42 - NEWAGE 30106.A01

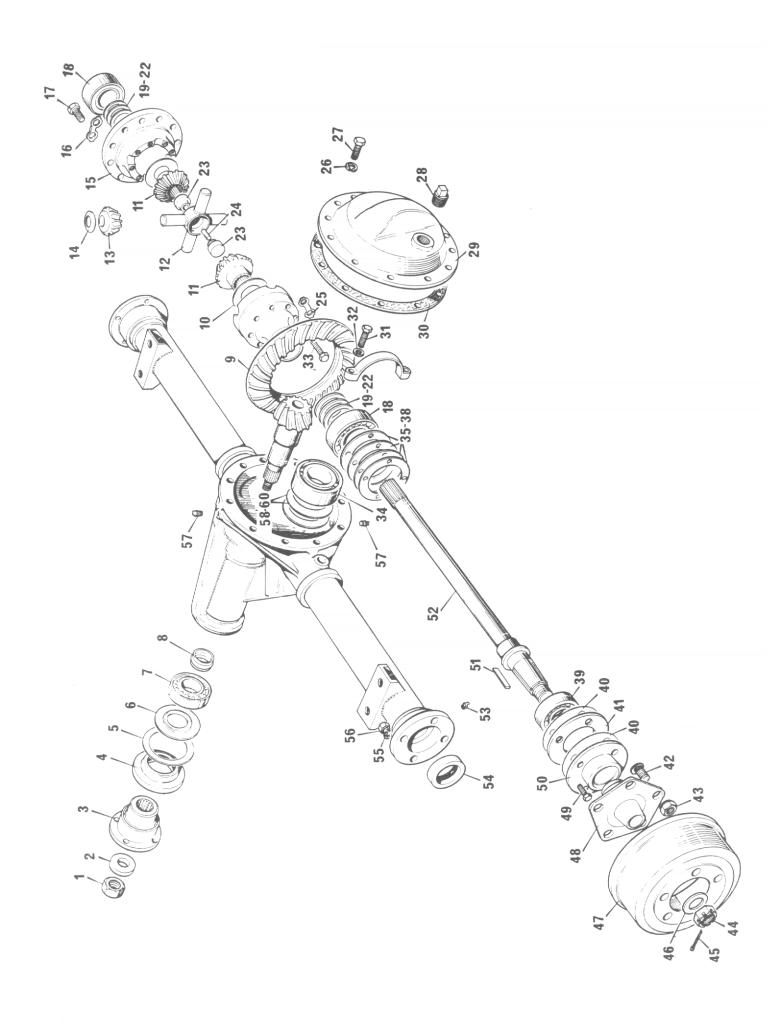
Item No	. Part No.	Description	Qty.
1	30101.A0201	Knob	1
2	958 03	Locknut - Gear Lever	1
3	30106.A0102	Gear Lever	1
4	30101.A0203	Cap - Gear Lever	1
5	30101.A0204	Cover - Gear Lever	1
6	30101.A0205	Spring - Gear Lever	1
7	30101.A0206	Retaining Plate - Gear Lever	1
8	28S.03E	Screw - Mainshaft	1
9			1
	30190.A0101		
10	30190.A0102	Washer - Reduction Pinion	1
11	30190.A0103	Reduction Pinion	1
12	28S.01B	Screw - Bearing Retainers	2
13	30190.A0104	Bearing Retainer - Small	1
14	30101.A0210	Bearing - Mainshaft Rear	1
15	30101.A0211	Output Gear	1
16	30101.A0212	Spacer - Output Gear	1
17	30101.A0213	Washer - Reverse Pinion Gear	1
18	102S .04	Nut - Reverse Spindle	1
19	44S 02C	Split Pin	1
20	30101.A0215	Circlip	1
21	28S 01D	Screw	2
22	67S_01	Washer	A/R
23	30190 A0105	Clip, Layshaft Bearing	2
24	30190 A0105		
		Layshaft Bearing	1
25	30101.A0217	Bearing Spacer	1
26	30101.A0218	Reverse Pinion	1
27	30101.A0219	Reverse Speed Gear	1
28	30101.A0220	Bush - Reverse Pinion	1
29	30101.A0221	Key, Reverse Pinion Shaft	1
30	30101.A0222	Shaft, - Reverse Pinion	1
31	30101.A0223	Layshaft	1
32	30101.A0224	2nd Speed Sliding Gear	1
33	30101.A0225	2nd Speed Gear	1
34	30101.A0226	1st Speed Gear	1
35	30101.A0227	Selector Fork 2nd & 3rd	1
36	44S.01C	Split Pin, Interlock	2
37	30101.A0228	Clevis Pin, Interlock	2
38	30101.A0229	Stud, Interlock	2
39	30101.A0230	Interlock Plate	1
40	42S 05	Seal, Dipstick	
41	30101.A0232	Dipstick	1
42	30101.A0232		
43		Drive Screw	4
43 44	30101.A0234	Pad - Gear Lever	2
	28S.01C	Screw - Top Cover	6
45	30101.A0235	Top Cover	1
46	30097.A0185	Detent Spring	2
47	30101.A0236	Detent Ball	2
48	30101.A0237	Selector Shaft	2
49	30101.A0238	Bearing, Primary Shaft	1
50	30101.A0239	Primary Shaft	1
IMPORTANT: will take p Item 41	lace:- Old Part No. D	om G/Box Batch No.B 1238 the following changes Description New Part No. Sipstick 30218.A0223	
31		ayshaft 30101.A0266	
55		earing - Layshaft 30101.A0267	
		JUIUI. AUZU/	2

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



GEARBOX 40M/42 - NEWAGE 30106.A01

Item No.	Part No.	Description	Qty.
51	30101.A0240	Input Bearing	1
52	30101.A0240	Snap Ring	1
53	30101.A0241	Bearing Spacer	1
54	30101.A0242	Circlip	2
			1
55	30101.A0244	Bush - Layshaft	
56	30101.A0245	1st Reduction Gear	1
57	30101.A0246	Clutch Housing	1
58	3S.03E	Bolt - 3/8" B.S.F. x 1" (Petter) (G/Box - Eng.).	8
	69S.03E	Bolt - 3/8" U.N.C. x 1" (Lister) (" " ").	8
59	98.03	Nut 3/8" U.N.F	6
60	30097.A0110	Clutch Release Fork	1
61	30097.A0111	Cotter, Nut & Washer S/A	1
62	30097.A0114	Bush, Cross Shaft	2
63	6S.01B	Bolt, Front Cover	4
64	30101.A0247	Oil Seal - Input	1
65	30101.A0248	Front Cover	1
66	30101.A0249	Joint, Front Cover	1
67	30101.A0250	Joint, Top Cover	
68	30101.A0219	Reverse Speed Gear	
69	30190.A0106	Mainshaft	
70	30101.A0252	Selector Fork 1st & Rev	
71	9S.01	Nut, Clutch Lever	
72	30101.A0253		
73		Stud, Clutch Housing	
	30101.A0254	Sealing Disc, Selector Shaft	
74	30101.A0255	Clutch Cross Shaft	
75	30103.A0102	Grease Nipple	
76	30101.A0256	Circlip	
77	30097.A0133	Washer - Cross Shaft	
78	30097.A0109	Clutch Release Lever	
79	6S.01C	Bolt - Clutch Lever	
80	30101.A0262	Casing	1
81	30190.A0108	Drain Plug	1
82	42S.05	Seal, Drain Plug	1
83	30101.A0259	Selector Locking Strip	1
84	28S.01C	Setscrew	2
85	30097.A0155	Dowel	2
86	30190.A0110	Internal Gear	1
87	30190.A0112	Joint - Reduction Housing	1
88	30190.A0111	Bearing - Internal Gear Front	
89	30101.A0260	Spacer	
90	30190.A0113	Bearing - Internal Gear Rear	
91	28S.02D	Screw - Hex. Hd.	
92	30190.A0114	Reduction - Housing	
93	6S.02J		
94		Bolt - Hex. Hd	
	30097.A0171	Breather	_
95	30097.A0132	Oil Seal - Rear	
96	30101.A0265	Dust Shield	
97	30101,A0208	Washer - Coupling	
98	30101.A0207	Lock Washer	
99	30106.A0101	Coupling	1
100	28S.05E	Screw - Coupling	
101	41S.05	Spring Washer	8
102	30143.A0111	Fibre Washer	1
103	30143.A0101	Fibre Washer	1



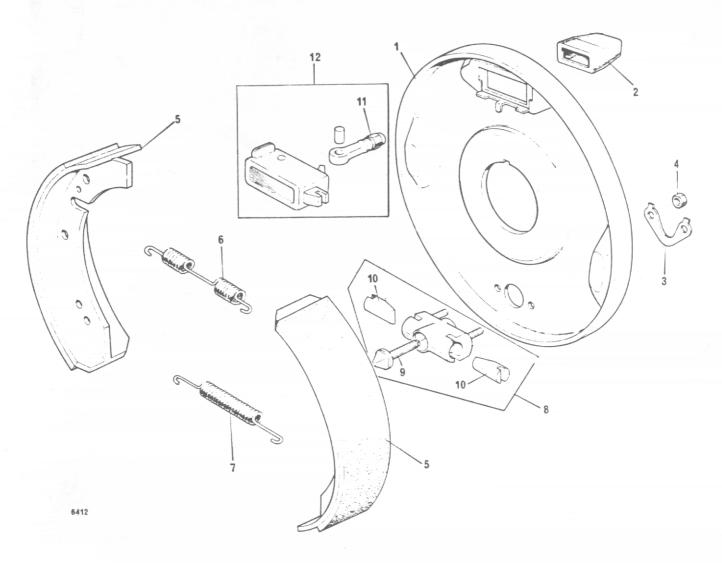
SALISBURY AXLE (30085.A03)

Item No.	Part No.	Description	Qty.
	30085.A03	Drive Axle Complete 64HA001268CFA	1
1	30166.A0106	Pinion Lock Nut	1
2	30088.A0101	Pinion Washer	1
3	30085.A0301	Companion Flange	1
4	30166.A0156	Pinion Oil Seal	1
5	30166.A0146	Pinion Seal Gasket	1
6	30085.A0102	Pinion Oil Slinger	1
7	30085.A0102	Pinion Bearing Outer	1
8	30085.A0104	Collapsible Spacer	2
9	30085.A0104	Service Drive Gear	1
10	30085.A0105	Differential Side Gear Thrust Washer	4
11	30085.A0107	Differential Side Gear	2
12		Differential Pinion Mate Shaft	1
13	30085.A0108	Differential Pinion Mate	4
14	30085.A0109	Differential Pinion Mate Thrust Washer	4
	30085.A0110	Differential Case	1
15	30085.A0111	Drive Gear Lock Straps	5
16	30085.A0112	Drive Gear Bolts	10
17	30085.A0113		2
18	30085.A0114	Differential Bearings	A/R
19	30085.A0115	Differential Bearing Shims .005	A/R
20	30085.A0116	Differential Bearing Shims .000	A/R
21	30085.A0117	Differential Bearing Shims .010	A/R
22	30085.A0118	Differential Bearing Snims .030	A/K 2
23	30085.A0119	Axle Shaft Spacer	1
24	30242.A0144	Shaft Spacer Roll Pin	4
25	30085.A0120	Differential Case Lock Strap	10
26	30085.A0121	Bolt (Differential Cover)	10
27	00005 10100	0'1 7 1 71	1
28	30085.A0122	Oil Level Plug	1
29	30085.A0123	Differential Cover	1
30	30085.A0124	Differential Cover Gasket	4
31	30166.A0103	Differential Bearing Cap Bolts	4
32	30166.A0157	Differential Cap Lock Washer	
33	30085.A0125	Differential Case Bolts	
34	30085.A0126	Pinion Bearing - Inner	
35	30085.A0127	Wheel Bearing Shim .003"	
36	30085.A0128	Wheel Bearing Shim .005"	A/R A/R
37	30085.A0129	Wheel Bearing Shim .010"	
38	30085.A0130		
39	30085.A0131	Hub Bearing	
40	30085.A0132	Hub Oil Seal Gasket	
41	30085.A0133	Bearing Retainer Plate	_
42	30085.A0134	Wheel Stud	10
43	00005 40105	01 - 51- XI-1-	2
44	30085.A0135	Shaft Nut	2
45	30085.A0136	Shaft Split Pin	2
46	30085.A0137	Shaft Washer	
47	30085.A0138	Brake Drum	
48	30085.A0139	Wheel Hub	
49	30085.A0140	Setscrew	
50	30085.A0141	Hub Oil Seal Assembly	
	30085.A0142	Shaft Key	
51	30085.A0143	Axle Shaft	2
52	30085.A0144 30085.A0145	Grease Nipple - Bearing	
53 54	30085.A0145	Shaft Oil Seal	2
54	J000J.A0140		

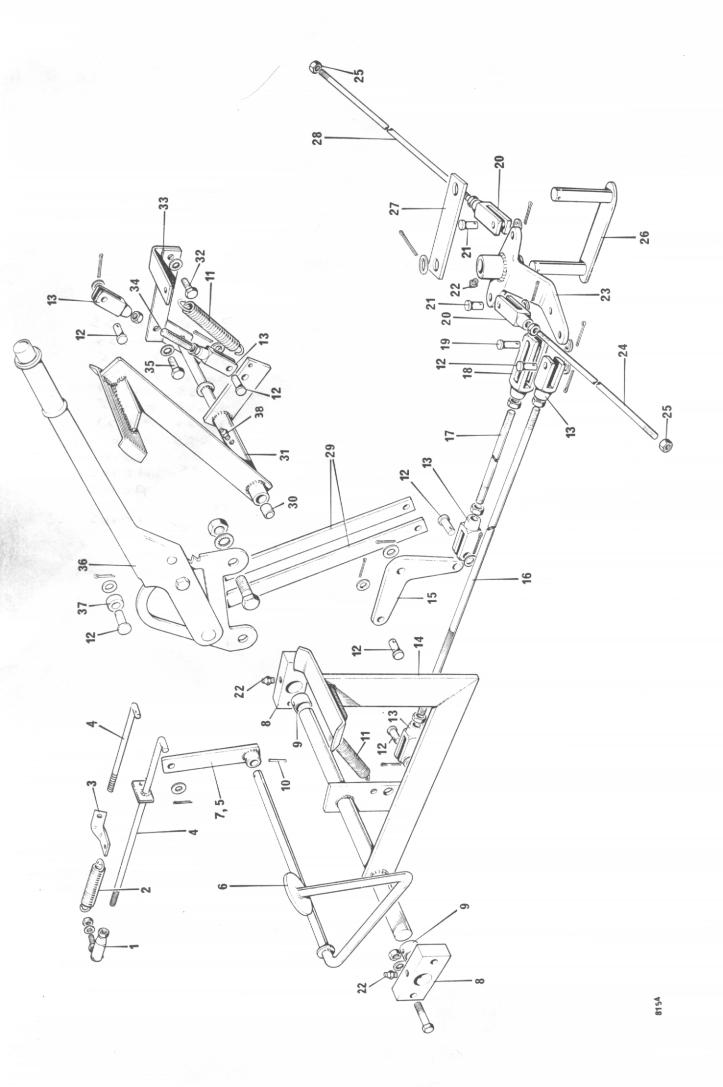
Item No.	Part No.	Description	Qty
55	30170.A0110	Lock Washer	8
56	30171.A0109	Nut	8
57	30085.A0147	Drain & Filler Plug	
58	30085.A0148	Pinion Bearing Shims .003"	A/R
59	30085.A0149	Pinion Bearing Shims .005"	A/R
60	30085.A0150	Pinion Bearing Shims .010"	A/R
	30085.A0151	Brake Assembly R.H. (See Sep. Illustration)	1
	30085.A0152	Brake Assembly L.H. (" " ")	1
	30085.A0166	Service Carrier & Tube Assy	
	30085.A0167	Diff. case Assy. (Comp. items 10,11,12,13,14,15,	_
		23,24,25 & 33	1

BRAKE DRUM ASSEMBLY

30085.A0151/30085.A0152 (SALISBURY AXLE)

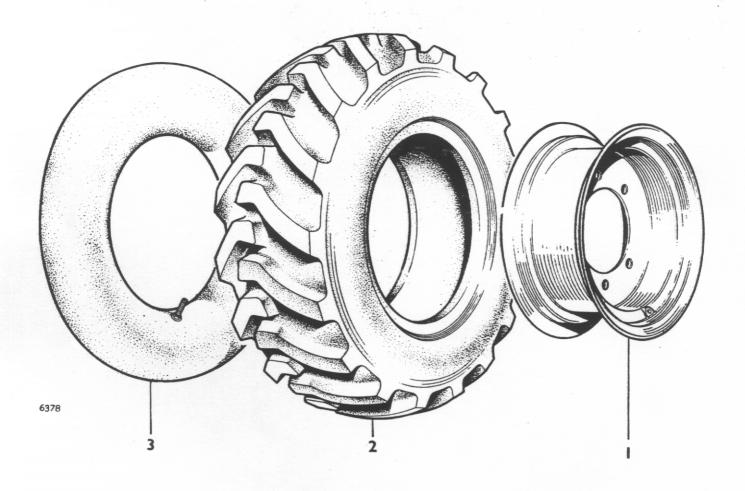


Item No.	Part No.	Description	
	1 41 6 110 8	Description	Qty.
1	30085.A0153	Backplate Right Hand	1
	30085.A0154	Backplate Left Hand	1
2	30085.A0155	Boot	2
3	30088.A0156	Locking Plate	2
4	30085.A0157		4
5	30085.A0158	Nut Brake Shoes LB203 (Pairs).	2
6	30085.A0159	Pull off Spring	2
8	30085.A0160 30085.A0161	Tension Spring	2
9	30085.A0161	Adjusting Assembly (with items 9 & 10)	2
10	30088.A0163	_	2
11	30085,A0164	Tapper Pull Rod and Pin	4
12	30085.A0165	Expander Assembly (inch item 11)	2
			~



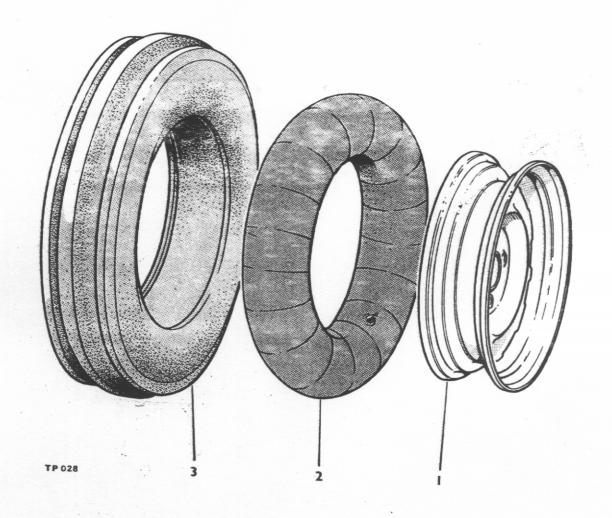
PEDALS AND CONTROLS

Item No.	Part No.	Description	Qty
1	C 160/B	Accelerator Ball Joint	1
2	C 173/D C 163	Accelerator Spring	1
4		Accelerator Spring Bracket	1
4	2SE 117	Accelerator Rod — Lister	1
_	C 299	Accelerator Rod — Petter	1
5 6	C 129 C 137	Accelerator Lever (Petter)	1
7		Accelerator Pedal	1
8	C308 2 SE 84	Accelerator Lever (Lister)	
9	WB 1212	Footbrake Bearing Block	
10	C 251-1	Bush	
11	C 173/B	Tension Pin	1
12	C 173/B C 174/X	Spring	2
13	C 174/A	Pin 3/8" Dia	7
14	2 SE 64	Clevis 3/8" BSF	5
15	2 SE 82	Footbrake Pedal	1
16	2 SE 53	Bell Crank Lever	1
17	2 ST 73	Brake Rod 42 x 3/6 Dia	1
18	C 174/B	Clevis 3/8" BSF Slotted	1
19	C 174/XL	Pin 3/8" Dia	1
20	C 174/E	Clevis 5/16" UNF	1 2
21	C 174/Y	Pin 5/16" Dia	2
22	5 ST 100	Grease Nipple	3
23	C 272	Compensator	1
24	4/60 155	Brake Rod 12" x 5/16" Dia	1
25	.,	Locknut 5/16" UNF	2
26	C 271	Link Assembly	1
27	C 189 A	Link	
28	2 SE 54	Brake Rod 32" x 5/16" Dia	1
29	2 SE 89	Handbrake Link Strap	2
30	WB 0808	Bush	2
31	2 SE 65	Clutch Pedal	1
32		Setscrew 3/8" UNF x 1" Long	1
33	2 SE 75	Clutch Pedal Mtg. Bracket	1
34	C 184	Clutch Rod	1
35		Setscrew 3/8" UNF x 3/4" Long	2
36	303	Handbrake Assembly	1
37	C 179	Handbrake link spacer	1
38	131S.4	Grease Nipple (Short)	1



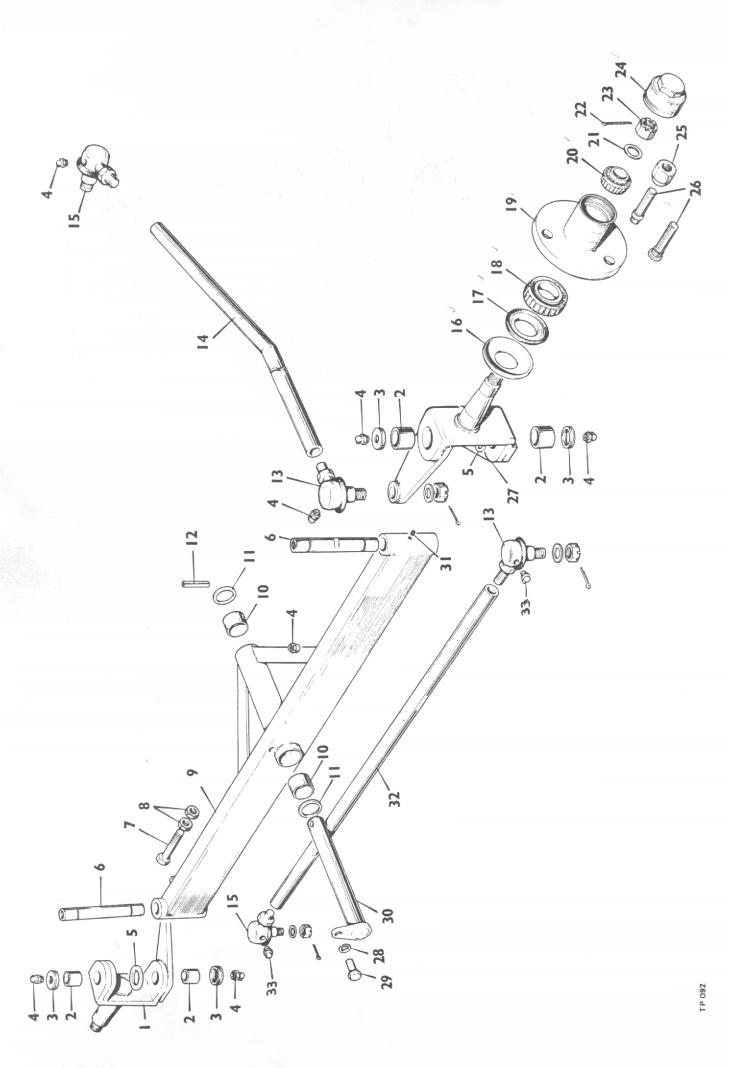
DRIVE WHEELS & TYRES

Item No.	Part No.	Description	Qty.
	24S20 24S19	RH Wheel Assembly Complete LH Wheel Assembly Complete	1
1	30033A01	Wheel Rim 4.00 x 16	1
2	20S09	Tyre 600 x 16-4 Ply	2
3	23S02	Tube 600 x 16	2



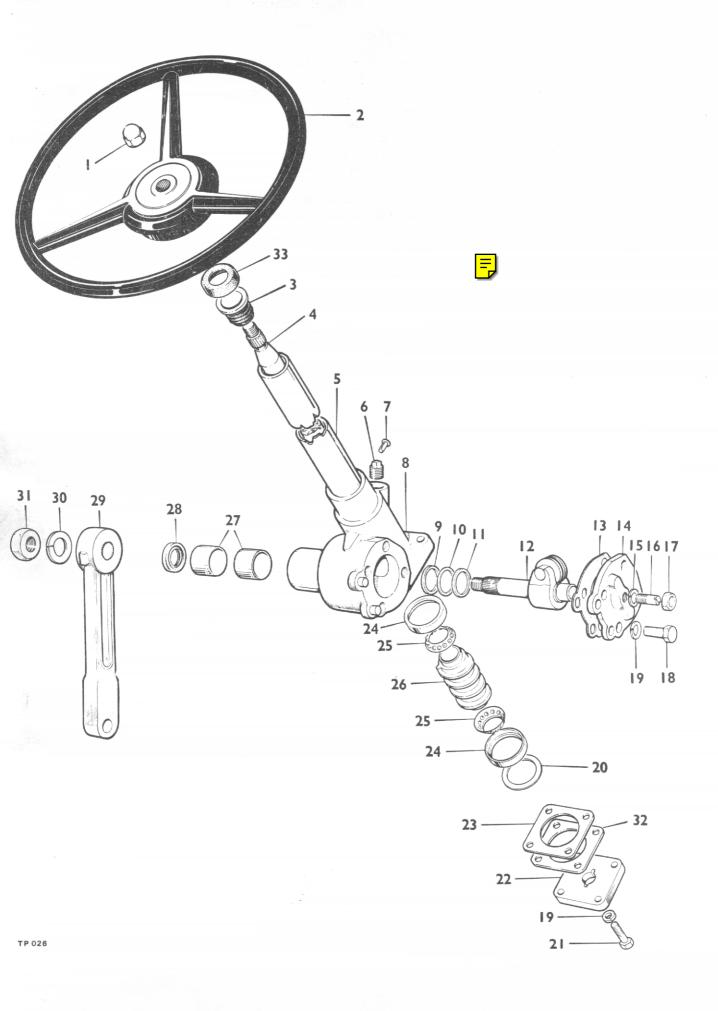
STEERING WHEELS & TYRES

Item No.	Part No.	Description	Qty.
	24S35	Steering Wheel Complete	2
1	LP598	Wheel Rim 4.00 x 16	2
2	23S01	Tube 5.50 x 16	2
3	21S02	Tyre 5.50 x 16-4 Ply	2



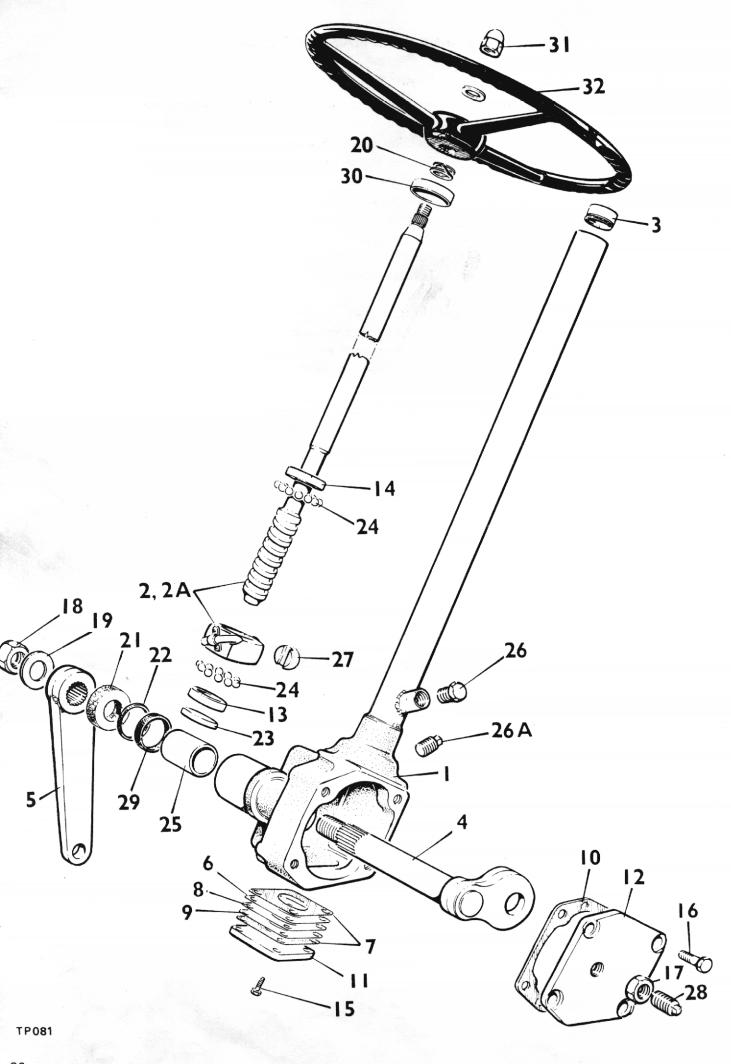
STEERING ASSEMBLY

Item No.	Part No.	Description	Qty
1	2 SE 78	Stub Axle Left Hand	. 1
2	C 190	King Pin Bushes	4
3	C 180	King Pin Felt and Steel Washer	. 4 Each
4	131802	Grease Nipple	
5	C 175	Thrust Washer.	. 4
6	L 264	King Pin	. 2
7		King Pin	. 2
8		Locknut 5/8" BSW	. 4
9	2 SE 74	Steering Axle	
10	4 SHL 91	Articulating tube bush	. 2
11	2 SE 57	Articulating tube bush	. 2
12	4-35-29A	Tension Pin	
13	C 159 LH	Tension Pin	. 2
14	2 SE 50	Drea Link	. 2
15	C 159 RH	Drag Link	. 1
16	EC 2752	Steering Ball Joint with Nut	. 2
17	186 C	Washer	. 2
18	K 14133/1	Oil Seal	
19	C 186		
20	K 09074	Hub (Comprising items 16,17, 18, 20, 24 & Bearing	26) 2
21	10\$05	Bearing	. 2
22	44\$03C	Washer 5/8" Flat	. 2 . 2 . 2
23	92507	Nut-Slotted 5/8" BSF	. 2
24	C 186 A	Hub Con	
25	10668901	Hub Cap	. 2
26	0 156	Wheel Nut	. 6
27	2 SE 79	Wheel Stud	. 6
28	41804	Stub Axle Right Hand	.]
29	41004	Spring Washer 5/16"	. 1
30	2 SE 80	Bolt 5/16" UNF x 3/4" Long	
31		Axle Pivot Pin	
	C 111A	King Pin Retaining Screw	. 2
32	2 SE 51	Track Rod	. 1
33	131801	Grease Nipple	. 2



STEERING GEAR (CAM AND ROLLER TYPE)

Item No.	Part No.	Description	Qty.
40294ADI)	MGA 34849 =	Steering column assy. complete less items, 1,2 & 29 .	1
1	C318	Steering wheel nut	1
2	40064.A01	Steering wheel V200.2350	1
3	PA3904A	Column top bush	1
4	P5244/30"	Inner shaft	1
5	P3911/24"	Outer tube	1
6	S 9033	Oil plug	1
7	S 9166	Pin	1
8	PA4426	Steering box c/w item 14	1
9	P4151	Thrust washer	2
10	P 3308	Shim	A/R
11	P 4150	Thrust washer	2
12	PA5229/41/4"	Rocker shaft c/w roller	1
13	P3306A	Cover plate gasket	A/R
14	MA 23984	Cover plate and bush	1
15	S 999	Spring washer	1
16	P 4222	Adjuster screw	1
17	P 4221	Nut	1
18	S 9240	Setscrew	4
19	S 902	Spring washer	8
20	P3342	Washer	1
21	S 9300	Setscrew	4
22	P 3907	Bottom cap	1
23	P 3301/.005"	Shim	A/R
24	P 3341	Outer race	2
25	PA2733	Cage and balls	2
26	P 3340	Cam	1
27	P 3309	Bush	2
28	S 9242	Oil seal	1
29	M 29629	Drop arm . 40294AQ101	1
30	S 955	Spring washer	1
31	S 9332	Nut	1
32	P 3301G	Bottom cap liner	2
33	M33418	Inner column shroud	1



STEERING GEAR (RECIRCULATING BALL TYPE)

Item No	Part No.	Description	Qty
	11-077	Steering gear complete (less items 5 & 32)	
1	SA-01-183	Box and Tube assembly	1
2	SA-02-269	Inner column assembly and main nut (700mm long)	1
2A	SA-02-277	Inner column assembly and main nut (750mm long)	1
3	SA-21-004	Bearing assembly	-
4	S-7-103	Rocker shaft	
5	2SE90	Drop arm	
6	S-10-14	End plate shim .005"	3
7	S-10-15	End plate gasket	
8	S-10-42	End plate shim .002" . ,	2
9	S-10-111	End plate shim .010"	2
10	S-10-191	Cover plate gasket	
11	S-11-83	End plate	
12	S-12-186	Cover plate	1
13	S-23-32	Ballrace (small)	1
14	S-23-33	Ballrace (large)	1
15	10-3-37	End Plate bolt	4
16	10-4-16	Cover Plate bolt	4
17	11-7-2	Rocker shaft adjuster screw nut	1
18	11-8-7	Rocker shaft nut	1
19	12-8-36	Rocker shaft tab washer	1
20	12-8-85	Spring	1
21	12-9-61	D	1
22	12-10-7	Oil seal retaining washer	
23	12-12-26	Inner column packing plate	
24	17-3-4	Steel ball	
25	19-9-17	Rocker shaft bush	1
26	21-8-4	Oil Plug	1
26A	21-7-2	Oil Plug	1
.27	24-5-5	Main nut roller	1
28	25-7-2	Rocker shaft adjuster screw	1
29	27-9-6	Oil seal	1
30	32-8-8	Dust cap	1
31	S9260	nut	1
32	1036 B	Steering wheel	4

DECIMAL, FRACTIONAL AND METRIC EQUIVALENTS

Inches			Milli-		Inches		NA:III:	
Fractions		Decimals	metres		Fractions	Decimals	Milli- metres	
				0.397			0.515625	13.097
	1/32 -			0.794			0.53125	13,494
3/64			0.046875	1.191	35/64 -		0.546875	13.891
		1/16 —		1.588		9/	16 - 0.5625	14.288
5/64			0.078125	1.984	37/64 -		0.578125	14.684
	3/32 -			2.381		19/32	0.59375	15.081
7/64				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			0.171875	4.366	43/64 -		0.671875	17.066
		3/16 —	0.1875	4.763			16 - 0.6875	17.463
13/64			0.203125	5.159	45/64 -		0.703125	17.465
	7/32 -		0.21875	5.556			0.71875	18.256
				5.953	47/64 -	20,02	0.734375	18.653
		1/4		6.350				19.050
17/64			0.265625	6.747	49/64 -		/4 — 0.750 — 0.765625	19.030
	9/32 —			7.144	10,01	25/32	0.78125	19.844
				7.541	51/64 -	20/02	0.796875	20.241
		5/16 —		7.938				20.241
21/64 -			0.328125	8.334	53/64 -		16 — 0.8125 — 0.828125	
	11/32 —			8.731	33/04	27/22	0.84375	21.034
23/64 -			0.359375	9.128	55/64 -	21/32	0.859375	21.431
,		3/8 —		9.525				21.828
25/64 -			0.375	9.922	57/64 -		/8 — 0.875 — 0.890625	22.225
	13/32 —			10.319			0.890625	22.622
	10/02			10.716	E0/64	29/32	0.90625	23.019
-,,,,,,		7/16 —		11.113				23.416
29/64 -		7/10	0.4375	11.509	61/64	15/	16 — 0.9375 —— 0.953125	23.813
	15/32 —			11.906	01/04 -	21/22	0.953125	24.209
31/64 -	15/32		0.40075	12.303	62/64	31/32	0.96875 0.984375	24.606
2.704		1/2 —		12.303	03/04 -			25.003
		1/2	0.000	12.700			1 1.000	25.400

INCHES INTO MILLIMETRES

Inches	0	1	2	3	4	5	6	7	8	9
0	0	25.40	50.80	76.20	101.60	127.00	150.40	477.00		
10	254.00	279.40				127.00	152.40	177.80	203.20	228.60
			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	
70	1778.00	1803.40	1828.80	1854.20	1879.60	1905.00				1752.60
80	2032.00	2057.40	2082.80			1	1930.40	1955.80	1981.20	2006.60
_				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	2514.6

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