

OPERATING INSTRUCTIONS & SPARE PARTS LIST

2S DIESEL DUMPER

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INTRODUCTION

This Parts & Operators Manual is a re-print of the manual last published in 1979 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 2S 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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SAFE WORKING

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

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

MACHINE MODIFICATION

WARNING Any modifications to the machine will affect its working parameters and safety



factors. Refer to the Manufacturers before fitting any non-standard equipment or parts.

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

TRAINING

WARNING Only trained operators should use this machine.



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

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

1.2

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.

SAFE WORKING

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:

The combined weight of the trailer and its load does not exceed the 1 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

1.4

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.
- 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.

SAFE WORKING

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:-

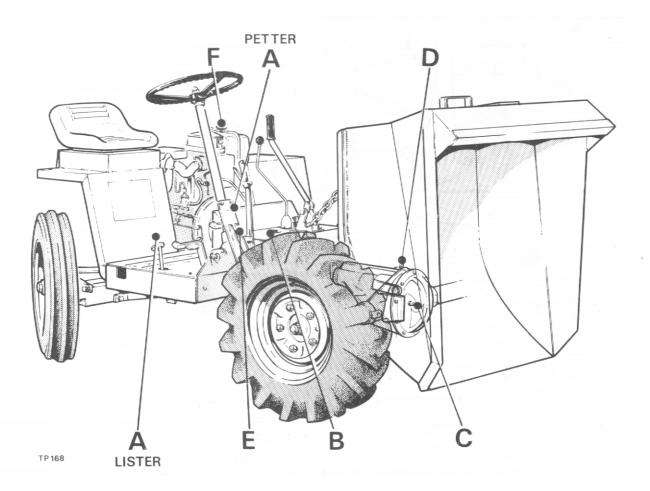
- ENGINE: Check the oil level on the dipstick (A), topping up if necessary to the full mark. See also recommended Lubricating Oils.
- GEARBOX: Check the oil level on the dipstick (B), topping up if necessary to the full mark. See also Recommended Lubricating Oils.
- DRIVE AXLE: Remove level plug (C) and check that oil is up to bottom of hole. Top up if necessary through filler plug (D). See also Recommended Lubricating Oils.
- STEERING BOX: Remove oil level/filler plug (E) (accessible through bracket) and top up if necessary. See also Recommended Lubricating Oils.
- 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.

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.



5

Starting

- 1. Lift red-painted overload stop (A) situated on fuel pump immediately above priming level (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.
- If engine does not fire, lift decompression lever and slowly crank engine a few times before attempting to start again. Where ambient temperature is 5°F (-15°C) or below, a cold starting aid should be fitted.

Stopping

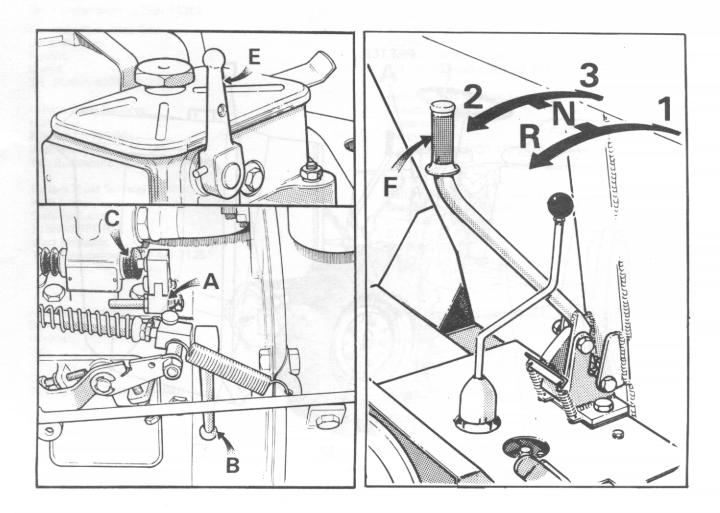
Hold the fuel pump rack (C) in the fully forward position, or lift the priming lever to the horizontal, until engine stops, then release.

Gear Shift Lever

The Dumper is fitted with three forward gears (1), (2), (3) and one reverse gear (R). When changing gear, the clutch pedal is used in the normal manner.

Skip Dump Lever

The skip dump lever (F) is located directly behind the skip. To deposit load, push lever forward. A manual operation returns the skip to its carrying position.



OPERATION (LISTER ENGINE)

Starting

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

NOTE: This is unnecessary if engine is already warm.

- 2. Lift decompression levers (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 levers and engine should fire.
- 3. If engine does not fire, lift decompression lever and slowly crank engine a few times before attempting to start again. Where ambient temperature is $5^{\circ}F(-15^{\circ}C)$ or below, a cold starting aid should be fitted.
- 4. Set overload lever (D) horizontal when engine starts.

Stopping

Push overload lever (D) to its lowest position.

IMPORTANT:

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

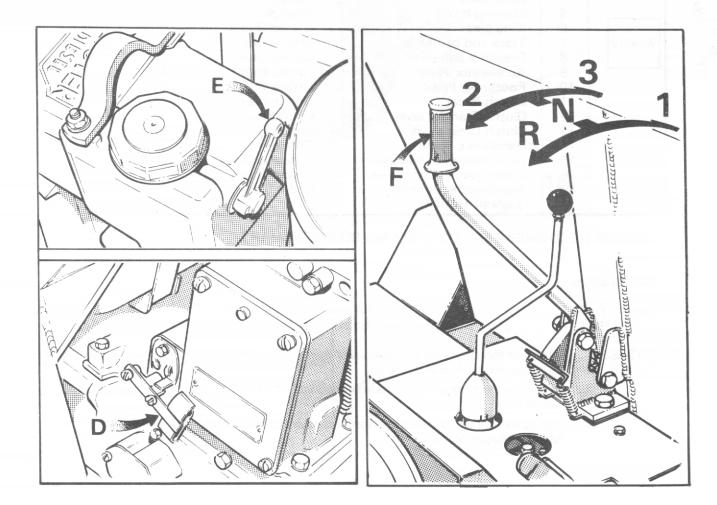
NOTE: LISTER ENGINE has a self-bleeding fuel system.

Gear Shift Lever

The Dumper is fitted with three forward gears (1), (2), (3) and one reverse gear (R). When changing gear, the clutch pedal is used in the normal manner.

Skip Dump Lever

The skip dump lever (F) is located directly behind the skip. To deposit load, push lever forward. A manual operation returns the skip to its carrying position.



GENERAL MAINTENANCE

Periodic Maintenance

- 1. 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.

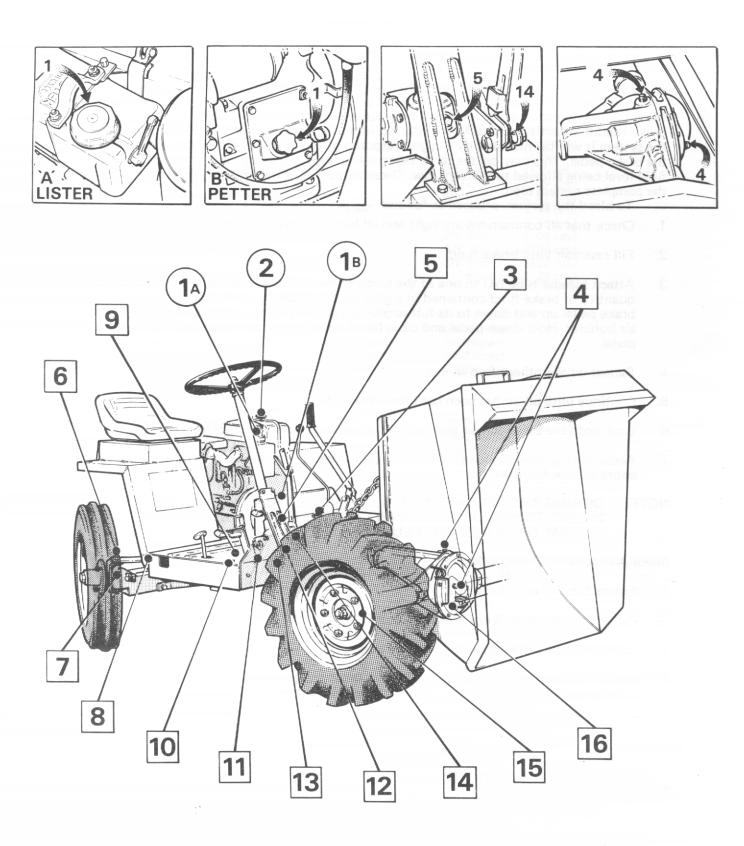
Lubrication

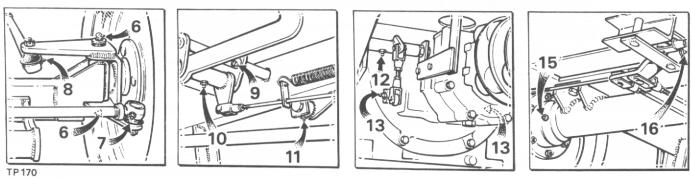
Period	Key to Fig.	Description	Lubrication	No. of points
Daily	1 2	Engine Fuel tank	Engine oil Diesel Fuel	1
Weekly	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Gearbox Drive Axle Steering box King pins Track rod ball ends Drag link ball ends Accelerator Pedal Footbrake Pedal Clutch Pedal Clutch Transfer lever Clutch Cross shaft Handbrake Pivot Drive Axle Hub bearings Brake compensator lever Brake master cylinder reservoir (if fitted)	Gearbox oil Axle oil Axle oil Grease Gun Grease Gun Grease Gun Grease Gun Grease Gun Grease Gun Grease Gun Grease Gun Grease Gun Grease Gun Brease Gun	1 1 4 2 2 1 1 1 2 1 2 1 1

NB: FOR RECOMMENDED LUBRICATING OILS SEE CHART

Oil Capacities

Engine (P (l		.) 5 pts. (2.86 litres) 	Drive Axle 8 pts. (4.57 litres) Gear box 2 pts. (.86 litres)	
NOTES:	1.	The rear steering axle and stabilizer asse that require no lubrication.	mbly articulation points consist of bearings	
	2.	The drive from gearbox to axle is throug lubrication.	h flexible couplings that require no	
	3.	For full details of the lubrication and ma Manufacturers Manual.	aintenance of the engine refer to	





BRAKE SYSTEM

Hydraulic Brake System

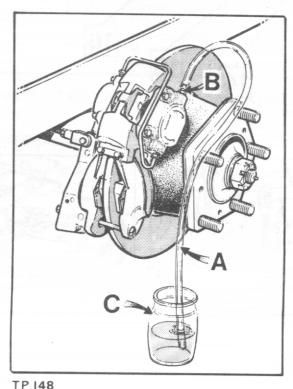
The brake system is designed to require the minimum of maintenance, and providing the hydraulic fluid in the reservoir is not allowed to fall below the recommended level, no defects should normally occur. Fluid loss must be supplemented by topping up the reservoir with brake fluid that conforms to SAE J 1703. No other fluid may be used. 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 or by the reservoir fluid level being allowed to fall very low. These defects must be remedied immediately and the complete system bled.

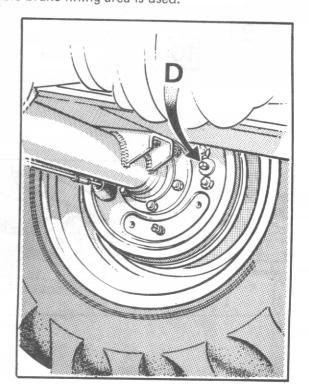
To bleed the system, proceed as follows:-

- 1. Check that all connections are tight and all bleed screws are closed.
- 2. Fill reservoir with brake fluid.
- 3. Attach bleeder tube (A) to one of the bleed screws (B) and immerse other end in small quantity of brake fluid contained in a glass jar (C). Slacken bleed screw and operate brake pedal up and down to its full stroke, until fluid pumped into the jar contains no air bubbles. Hold down pedal and close bleed screw. Remove bleeder tube and release pedal.
- 4. Repeat on the other bleed screw.
- 5. Continue until all air has been bled from the system.
- 6. Lock both the bleed screws and top up the reservoir to the correct level.
- 7. Apply normal working load on brake pedal for two or three minutes and examine the entire system for leaks.
- NOTE: DURING THE OPERATION IT IS ESSENTIAL THAT THE RESERVOIR LEVEL IS KEPT TOPPED UP TO PREVENT FURTHER AIR BEING DRAWN INTO THE SYSTEM. ONLY USE NEW FLUID FOR TOPPING UP.

Brake Adjustment (Drum Brakes)

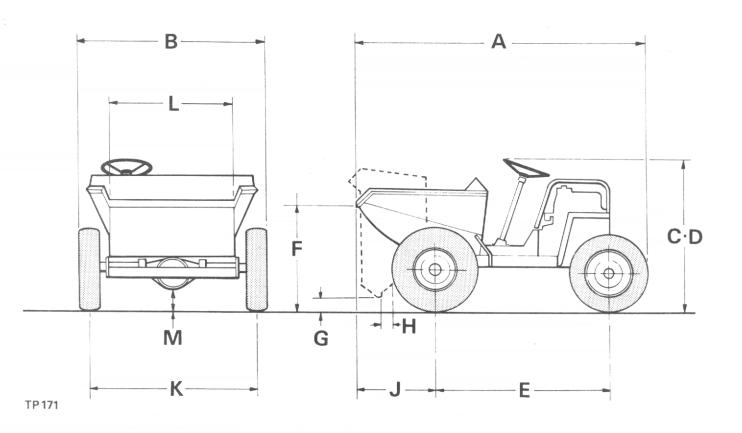
- 1. Ensure handbrake is fully off.
- 2. Pull off rubber cover from brake adjuster (D).
- Screw adjuster clockwise until brakes are fully on.
- 4. Slacken adjuster anti-clockwise until brake shoes are just clear of drum. This will cause shoes to be centralised on drums and ensure that whole brake lining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





MACHINE SPECIFICATION

A. B. C. D. E. F. G. H. J. K. L. M.	Overall length Overall width Overall height Overall height when tip Wheelbase Skip loading height Skip ground clearance w Discharge forward of ty Overhang Wheeltrack Prow width Ground clearance	vhen tipped	7ft. 9 in. 5ft. 2 in. 4ft. 5 in. 4ft. 5 in. 4ft. 7 in. 3ft. 0 in. 4 in. 6 in. 2ft. 2 in. 4 ft. 7 in. 3ft. 4 in. 8½ in.	(236 cm.) (157 cm.) (135 cm.) (135 cm.) (139 cm.) (91 cm.) (10 cm.) (66 cm.) (139 cm.) (102 cm.) (22 cm.)
Skip	Capacity			
Stru Hea Max	er level ick level ped level «. Payload cellaneous	12 cu.ft. 16 cu.ft. 20 cu.ft. 1680 lb.	(340 litres) (450 litres) (560 litres) (762 kg.)	
Unl	ning circle aden weight ır Axle articulation	21 ft. 0 in. 1988 lb. 1 ft. 2 in.	(640 cm.) (902 kg) (35 cm.	



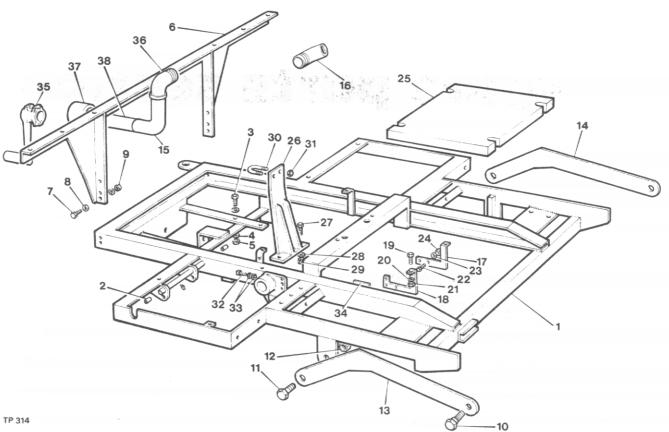
COMPANY		ENGINE	TRANSFER BOX & DRIVE AXLE	GEARBOX	WHEEL BEARINGS & OTHER GREASE POINTS	HYDRAULIC SYSTEM
(N.K.)	SUMMER WINTER	ESSOLUBE HDX 20W	GEAR OIL GP 85W/140	ESSOLUBE HDX 30	BEACON 2	NUT0 H44
ESSO (Overseas)	ABOVE 32 ⁰ C 0-32 ⁰ BELOW 0 ⁰ C	ESSOLUBE HDX 30 ESSOLUBE HDX 20W ESSOLUBE HDX 10W	GEAR OIL GP 85/140 GEAR OIL GP 85/W/140 GEAR OIL GP 80W	ESSOLUBE HDX 30	BEACON 2	NUTO H54 NUTO H44 NUTO H40
(U.K.)	SUMMER WINTER	DEUSOL CRI 20	DEUSOL GEAR EP 90	DEUSOL CRI 30	CASTROL SPHEEROL APT 2	CASTROI
CASTROL	ABOVE 32 ⁰ C 0-32 ⁰ C BELOW 0 ⁰ C	DEUSOL CRI 30 DEUSOL CRI 20 DEUSOL CRI 10	DEUSOL GEAR EP 140 DEUSOL GEAR EP 90 DEUSOL GEAR EP 80	DEUSOL CRI 30	CASTROL SPHEEROL APT2	HYSPIN AWS 32
(U.K.)	SUMMER WINTER	ROTELLA SX OIL 20/20W	SPIRAX 90 EP	ROTELLA SX OIL 30	RETINAX A	TELLUS OIL 37
SHELL (Overseas)	ABOVE 32 ⁰ C 0-32 ⁰ C BELOW 0 ⁰ C	ROTELLA SX 01L 30 ROTELLA SX 01L 20/20W ROTELLA SX 01L 10W	SPIRAX 140 EP SPIRAX 90 EP SPIRAX 80 EP	ROTELLA SX OIL 30	RETINAX A	
(N.K.)	SUMMER WINTER	VENELLUS M20W	GEAR OIL SAE 90 EP	VANELLUS M30	ENERGREASE L2	ENERGOL HLP 65
BP (Overseas)	ABOVE 32 ⁰ C 0-32 ⁰ C BELOW 0 ⁰ C	VANELLUS M30 VANELLUS M20W VANELLUS M10W	GEAR OIL SAE 140 EP GEAR OIL SAE 90 EP GEAR OIL SAE 80 EP	VANELLUS M30	ENERGREASE L2	
(U.K.)	SUMMER WINTER	DELVAC 1220	MOBILUBE HD 90 MOBILUBE GX 90	DELVAC 1230	MOBIL GREASE MP	
MOBIL	ABOVE 32 ⁰ C	DELVAC 1230	MOBILUBE HD 140 MOBILUBE GX 140		MOBILGREASE	DTE 24
	0-32°C	DELVAC 1220	MOBILUBE HD 90 MOBILUBE GX 90			
(Overseas) ALL TEMP	(Overseas) BELOW 0 ⁰ C ALL TEMPERATURES	DELVAC 1210 DELVAC SPECIAL 10W-30	MOBILUBE HD 80 MOBILUBE GX 80	DELVAC 1230		
(U.K.)	SUMMER WINTER	CENTURYROIL 20W20	CENTURY EP 90	CENTURYROIL 30	REGULUS A2	CENTURY PWLA HYD OIL
WALKERS CENTURY (Overseas)	ABOVE 32 ⁰ C 0 ⁰ C-32 ⁰ C BELOW 0 ⁰ C	CENTURYROIL 30 CENTURYROIL 20W20 CENTURYROIL 10W	CENTURY EP 140 CENTURY EP 90 CENTURY EP 80	CENTURYROIL 30	REGULUS A2	CENTURY PWLA HYD OIL
		ΙΝ Τ ΕαυΙΥΑ	IN THE UNLIKELY EVENT OF THE ABOVE OILS NOT BEING AVAILABLE EQUIVALENT OILS SUPPLIED BY A REPUTABLE MANUFACTURER MAY BE USED	IE ABOVE OILS NOT BEING REPUTABLE MANUFACTURE	AVAILABLE ER MAY BE USED	

RECOMMENDED LUBRICATING OILS

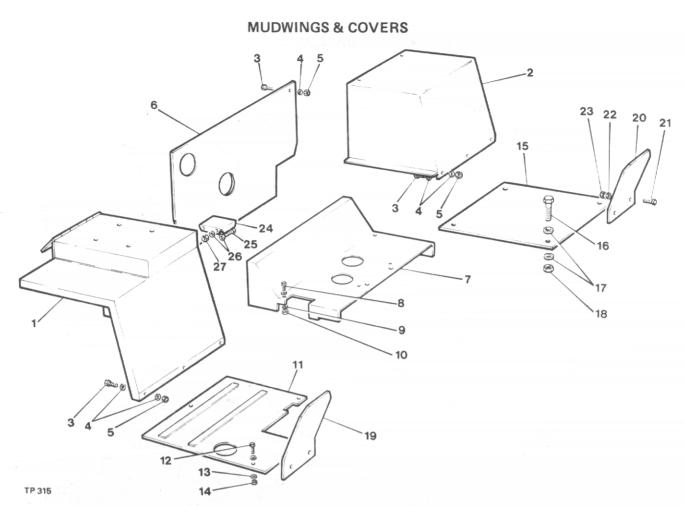
spare parts section

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MASTER CYLINDER	
BRAKE CALIPER	2
HANDBRAKE ASSEMBLY	3
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Item No.	Part No.	Description	0
			Qty.
1	C104	Chassis (Petter)	1
_	C253	Chassis (Lister)	1
2	WB 0808	Accelerator Holder Bush	2
3	6S.5F	Bolt 1/2" UNF x 2" long (Petter)	4
	6S.5H	Bolt 1/2" UNF x 21/2" long (Lister)	4
4	10S.4	Plain Washer 1/2"	8
5	87S.5	Locknut ½" UNF	4
6	C102	Rear Cover & Wing Frame	4
7	8S.4D	Bolt M10 x 40mm lang	
8	12S.5	Plain Washer M10	4
9	61S.4	Locknut M10	8
10	C176	Skip Badius Balt	4
11	10050 A01	Bolt M20 x 50mm long	2
12	61S.7	Locknut M20	2
13	C223/0	Skip Radius Arm RH	2
14	C223/N	Skip Radius Arm RH	1
15	10556 A01	Skip Radius Arm LH	1
16	3SHD 70	Exhaust Bend (Petter)	1
17	C146 0	Exhaust Elbow (Lister) .	1
18	C146 N	Gearbox Support RH	1
19	8S.4D	Gearbox Support LH	1
20	12S.5	Bolt M10 x 40mm long	2
20		Plain Washer M10	2
22	61S.4	Locknut M10	2
	28S.3D	Setscrew 3/8" UNF x 3/4" long	4
23	10S.3	Plain Washer 3/8"	4
24	87S.3	Locknut 3/8"	4
25	C181	Side Ballast Weight	1
26	C117	Steering Column Support	1
27	8S.4D	Bolt M10 x 40mm long	2
28	12S.D	Plain Washer M10	4
29	61S.4	Locknut M10	4
30	10638.A01	"U" Bolt Clamp c/w Nuts (Recirculating Ball Type)	1
-	C125	"U" Bolt (Cam & Roller Type)	1
31	75S.3	Locknut 3/8" BSF (Cam & Roller Type)	2
32	C212	Grubscrew Skt. Hd. Cup Point	2
33	56S.5	Halfnut M12	2
34	10317.A01	Label – Chassis	2
35	C188	Starting Handle (Petter)	1
	CT188L	Starting Handle (Lister)	1
36	C165-3	Exhaust Elbow (Petter)	1
37	C165-2	Exhaust Socket (Petter)	1
38	10555.A01	Exhaust Pipe (Patter)	1

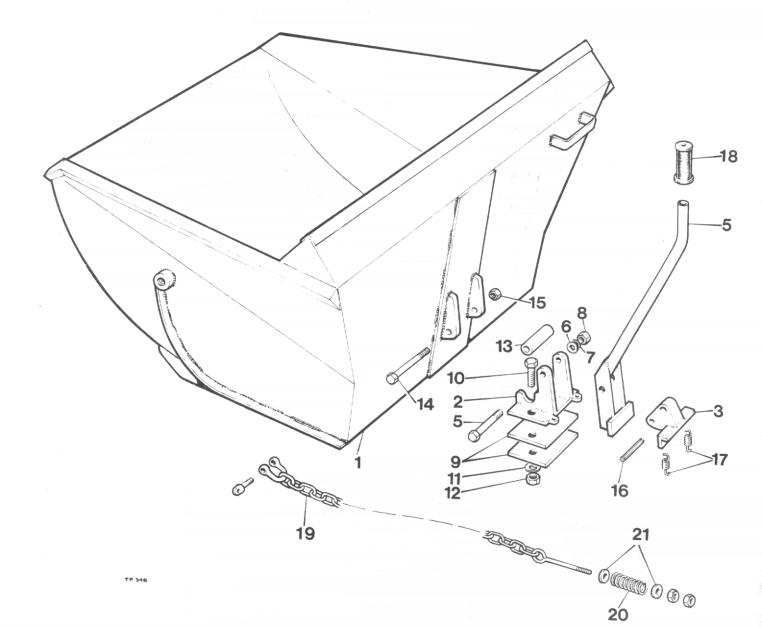


Item	No.	Part	No.

Description

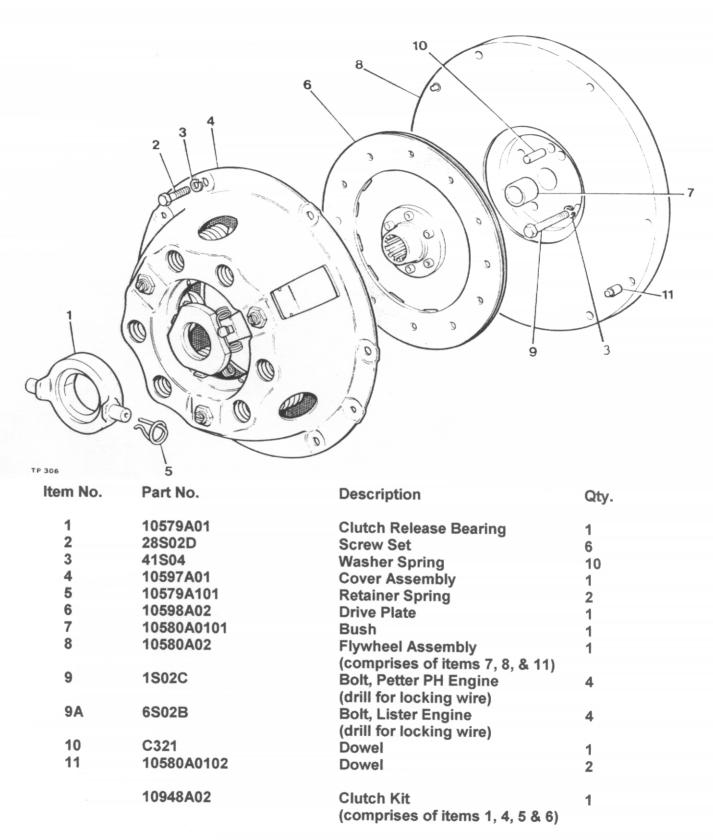
Qty.

1	30066 A01	Peer Muduine Dui . Ci I	
2	C135	Rear Mudwing, Drivers Side	1
3	11S.2B	Rear Mudwing, Near Side	1
4	12S.2A	Setscrew Hex Hd. M6 x 20 mm Long	14
4		Plain Washer 6 mm I/D	28
5	61S.2A	Locknut M6	14
6	C148	Rear Cover Plate (Petter)	1
_	C243	Rear Cover Plate (Lister)	1
7	C131	Gearbox Cover (Petter)	1
	C242	Gearbox Cover (Lister)	1
8	8S.4A	Bolt M10 x 25mm Long	2
9	12S.5	Plain Washer M10	4
10	61S.4	Locknut M10	2
11	C134	Drivers Footplate	1
	C221	Drivers Foot Plate (Disc Brakes)	1
12	11S.2A	Setscrew Hex.Hd. M6 x 16mm Long	3
13	12S.2A	Plain Washer Grand 1/D	6
14	61S.2A		3
15	C105-LH	Locknut M6	3
16	79S.7P	Footplate LH	
17	10S.5A	Bolt 5/8" Whit. x 4" Long	4
18	76S.7	Plain Washer 5/8" I/D	8
19	C114	Locknut 5/8" Whit	4
20	C114A	Mudflap RH	1
		Mudflap LH	1
21	8S.4A	Bolt M10 x 25mm Long	4
22	12S.5	Plain Washer M10	4
23	61S.4	Locknut M10	4
24	C152	Exhaust Shroud (Petter)	1
25	11S.2A	Setscrew M6 x 16mm Long	2
26	12S.2	Plain Washer M6	4
27	61S.2	Locknut M6	2
28	DM 154	Label - "Winget" (Not Illustrated)	3
29	DM 158	Label - ''Payload'' (Not Illustrated) Label - ''Dumper Safety'' (Not Ilustrated)	1
30	DM 180	Label - "Dumper Safety" (Not Ilustrated)	1
31	DM 197	Label - "Recommended Lubrication" (Not	
		Illustrated)	1
32	20072 A01	Seat (Not Illustrated)	1
33	69S.2C	Setscrew 5/16" UNC x 34" Long (Not Illustrated)	
34	41S.4A	Springwasher 5/16" I/D (Not Illustrated)	4

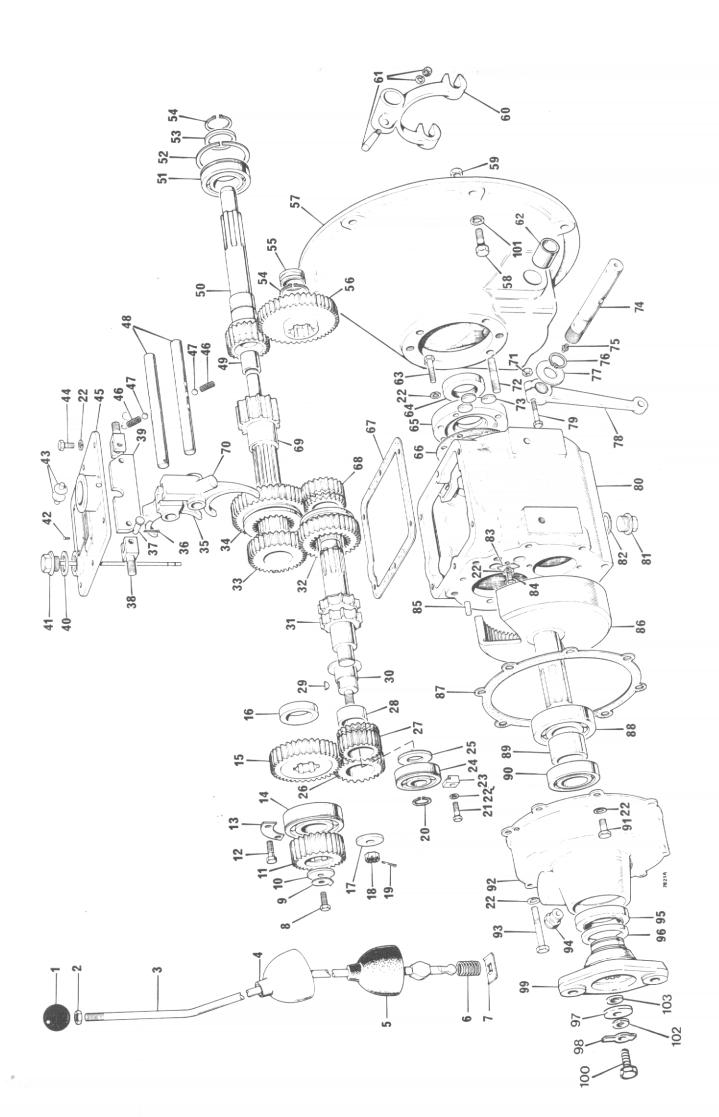


Item No.	Part No.	Description	Qty.
1	C140	Skip	1
2	C130	Skip Catch Body	1
3	C130A	Skip Catch Cam Plate	1
4	C130B	Skip Catch Handle	1
5	85.6M	Skip Catch Handle	
6	12S.7	Washer M16	1
7	135.6	Washer M16	1
8	7S.6	Nut M16	. 1
9	C130D	Nut M16 Skip Catch Adjuster Book	1
10	8S.7H	Skip Catch Adjuster Pack	A/R
11	12S.8	Bolt M20 x 60mm long	
12	61S.7	Washer M20	2
13	C140A	Locknut M20	2
14	6S.6P	Skip Catch Tube	1
15	9S.5	Nut 5/8'' UNF	1
16	C251		1
17	C173-C	Tension Pin	1
18	C172	Skip Catch Spring	2
19	C216	Handle Grip	1
20	C173A	Skip Stub Chain & Shackle	2
21	C143B	Compression Spring	2
61	DM 154	Washer - Skip Stub Spring	4
	DIVI 104	Label - Winget (Not illustrated)	2

FLYWHEEL AND CLUTCH ASSEMBLY



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.

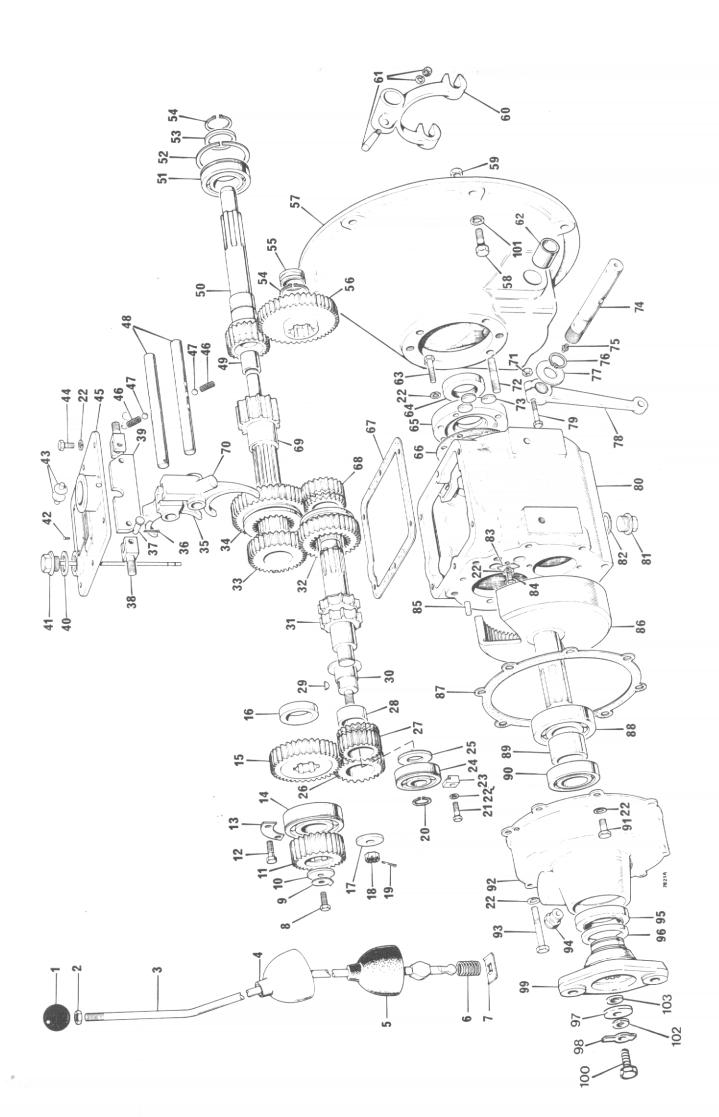


GEARBOX 40M/42 - NEWAGE 30106.A01

I	tem No.	Part No.	Description	Qty.
	1	30101.A0201	Veeh	
	2		Knob	1
		95S 03	Locknut - Gear Lever	1
	3	30101.A0202	Locknut - 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	30190.A0101	Lock Washer - Tab	1
	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	-
	18	1025.04	Nut - Reverse Spindle	1
	19	44S 302C		1
	20		Split Pin	1
	20	30101.A0215	Circlip	1
		28S301D	Screw	2
	22	67S_01	Washer	A/R
	23	30190 A0105	Clip, Layshaft Bearing	2
	24	30101.A0216	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	lst 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	
	40	42S 05	Seal, Dipstick	1
	41	30101.A0232	Dipstick	1
	42	30101.A0233	Drive Screw	4
	43	30101.A0234	Pad - Gear Lever	
	44	28S.01C	Screw - Top Cover	2
	45	30101.A0235		6
	46	30097.A0185	Top Cover	1
	47	30101.A0236	Detent Spring	
	48	30101.A0238	Detent Ball	
	40		Selector Shaft	2
		30101.A0238	Bearing, Primary Shaft	
	50	30101.A0239	Primary Shaft	1
TMDO	D. ም. ለ እነም			
	TANT: W	vich effect fro	om G/Box Batch No.B 1238 the following changes	
Item	•			
41			Description New Part No. Dipstick 30218,A0223	
	50		Dipstick 30218.A0223	

I w Dipstick 30101.A0232 30218.A0223 31 30101.A0223 Layshaft 30101.A0266 55 30101.A0244 Bearing - Layshaft 30101.A0267

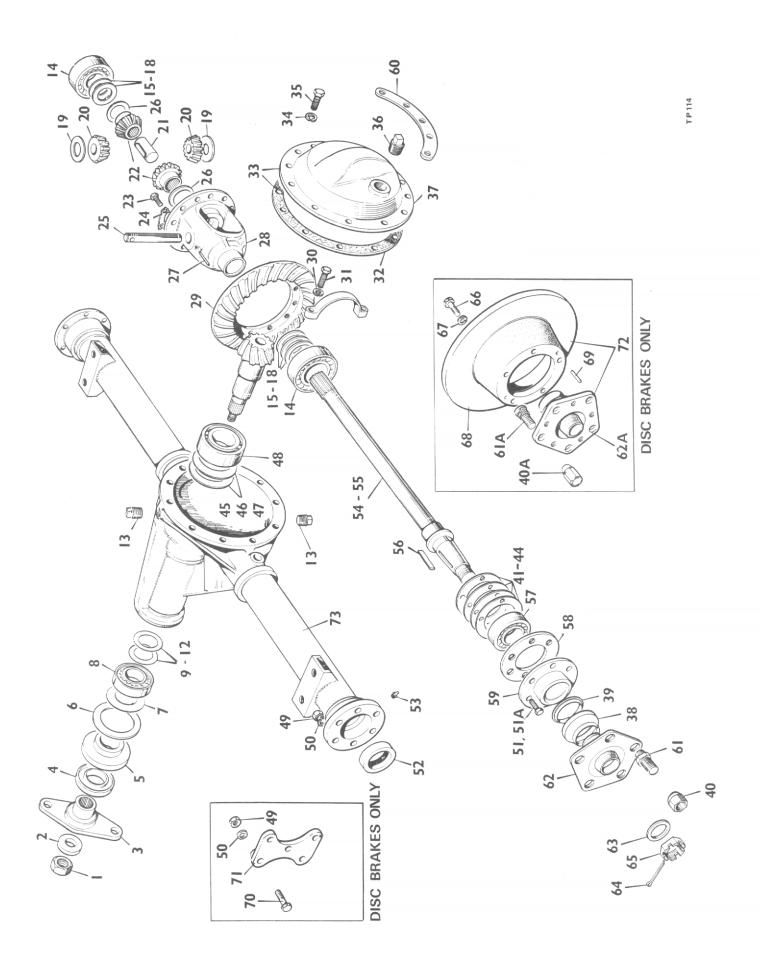
The layshaft will only be supplied complete with bearing as a replace-ment under part no. 30101.A0268 and will be totally interchangeable with current layshaft. (New Oil Capacity now 2 Litres previously .85 Litres)



GEARBOX 40M/42 - NEWAGE 30106.A01

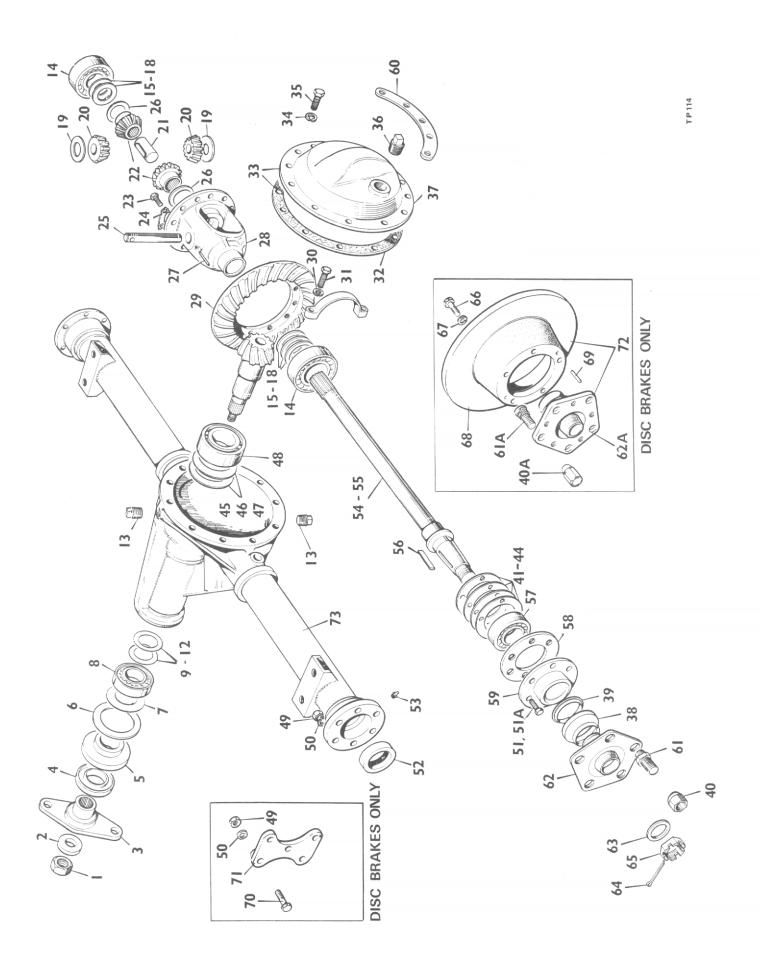
	<u></u>	ARDON 4011/42 REWROL SOTOO.ROT	
Item No.	Part No.	Description	Qty.
51	30101.A0240	Input Bearing	1
52	30101.A0241	Snap Ring	1
53	30101.A0242	Bearing Spacer	1
54	30101.A0243	Circlip	2
55	30101.A0244	Bush - Layshaft	1
56	30101.A0245	lst Reduction Gear	1
57	30101.A0246	Clutch Housing	1
58	3S.03E	Bolt - 3/8" B.S.F. x 1" (Petter) (G/Box - Eng.).	
30	695.03E	Bolt - 3/8" U.N.C. x 1" (Lister) (" ").	8
59	9S.03	Nut 3/8" U.N.F.	8
60	30097.A0110	Nut 5/0 U.N.F.	6
61		Clutch Release Fork	1
62	30097.A0111	Cotter, Nut & Washer S/A	1
	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	1
68	30101.A0219	Reverse Speed Gear	1
69	30190.A0106	Mainshaft	1
70	30101.A0252	Selector Fork 1st & Rev	1
71	9S.01	Nut, Clutch Lever	1
72	30101.A0253	Stud, Clutch Housing	6
73	30101.A0254	Sealing Disc, Selector Shaft	3
74	30101.A0255	Clutch Cross Shaft	1
75	30103.A0102	Grease Nipple	2
76	30101.A0256	Circlip	1
77	30097.A0133	Washer - Cross Shaft	1
78	30097.A0109	Clutch Release Lever	1
79	6S.01C	Bolt - Clutch Lever	1
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	
85	30097.A0155	Dowel	2
86 87	30190.A0110	Internal Gear	1
88	30190.A0112	Joint - Reduction Housing	1
	30190.A0111	Bearing - Internal Gear Front	1
89	30101.A0260	Spacer	1
90	30190.A0113	Bearing - Internal Gear Rear	1
91	285.02D	Screw - Hex. Hd.	5
92	30190.A0114	Reduction - Housing	1
93	6S.02J	Bolt - Hex. Hd.	1
94	30097.A0171	Breather	1
95 96	30097.A0132	Oil Seal - Rear	1
96 97	30101.A0265	Dust Shield	1
98	30101.A0208	Washer - Coupling	1
98	30101.A0207 30105.A0102	Lock Washer	1
100	28S.05E	Coupling	1
100	41S.05	Screw - Coupling	1
101	30143.A0111	Spring Washer Fibre Washer	8
102	30143.A0111 30143.A0101	Fibre Washer	1
103	30143.40101	LTDIC MGDIICL	1

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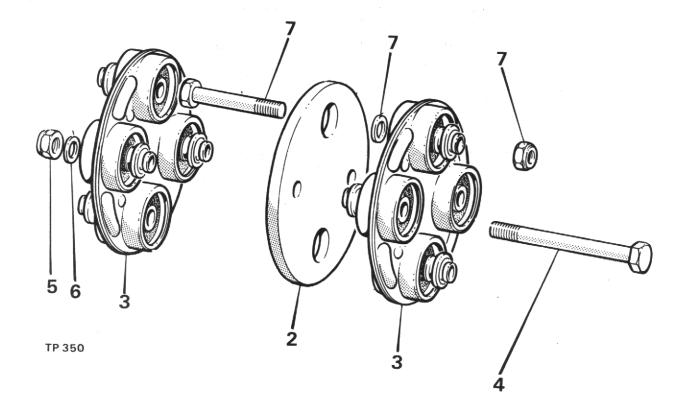
DRIVE AXLE

Ite	m No.	Part No.	Description	Qty.
		5HA-001-274	Drive Axle Complete with drum brakes (1 per m/c)
	4	5HA-001-174	Drive Axle Complete with disc brakes (1 per m/c)	
	1	12 LN-NF9B	Pinion Nut	1
	2	12W-24	Pinion Nut Washer ¾" dia std. heavy pattern	1
	3	3HA-102-10	Companion Flange Assembly	1
	4	2HA-021	Companion Flange Dust Shield	1
	5	8HA-019-3	Pinion Oil Seal	1
	6 7	2HA-020	Pinion Oil Seal Gasket	1
	8	2HA-036	Pinion Oil Slinger	1
	9	5HA-022	Pinion Bearing, Outer	1
	9 10	5HA-039	Pinion Bearing Adjusting Shim Outer .003"	A/R
	10	5HA-040	Pinion Bearing Adjusting Shim Outer .005" .	A/R
	12	5HA-041	Pinion Bearing Adjusting Shim Outer .010"	A/R
	13	5HA-042	Pinion Bearing Adjusting Shim Outer .030"	A/R
	13	HA-059	Filler and Drain Plug (each)	1
	15	5HA-024/1	Differential Bearing	2
	16	5HA-046	Differential Bearing Shim .003"	A/R
	17	5HA-047	Differential Bearing Shim .005"	A/R
	18	5HA-048	Differential Bearing Shim .010".	A/R
	19	5HA-049	Differential Bearing Shim .030"	A/R
	20	5HA-037	Differential Pinion Mate Thrustwasher	2
	20	5HA-008-1 5HA-033-3	Differential Pinion Mate	2
	22	5HA-033-3 5HA-007-2	Axle Shaft Spacer	1
	23	5HA-007-2 5HA-075-2	Differential Side Gear	2
	23	5HA-075-2 5HA-074-1	Drive Gear Screw	12
	24	5HA-074-1 5HA-012	Drive Gear Tabwasher	6
	26	5HA-012 5HA-038	Differential Pinion Mate Shaft	1
	20	5HA-038 5HA-013	Differential Side Gear Thrustwasher	2
	28	5HA-006	Differential Pinion Mate Shaft Lock Pin	_1
	29	5HA-105 15	Differential Case	1
	30	8 LW-115	Drive Gear and Pinion Assembly Complete	1
	31	8 B-NC-36	Differential Bearing Cap Springwasher ½" dia	4
	32	5HA-026	Differential Bearing Cap Bolt	4
	33	5HA-064-17	Gear Carrier Cover Gasket	1
	34	6LW-105	Cover Screw Springwasher	1
	35	6B-NC10	Coulor Corour	10
	36	HA-059	Level Plug	10
	37	5HA-064-1	Gear Carrier Cover	1
	38	5HA-030-4	Shroud	2
	39	5HA-032-14	Seal	2
	40	C 177	Wheel Nut (Drum brakes only)	10
	40A	R340	Wheel Nut (Disc brakes only)	10
	41	5HA-050-3	Axle Shaft Bearing Shim .003''	A/R
	42	5HA-051-3	Axle Shaft Bearing Shim .005"	A/R
	43	5HA-052-3	Axle Shaft Bearing Shim .010''	A/R
	44	5HA-053-3	Axle Shaft Bearing Shim .030''	A/R
	45	5HA-043	Pinion Adjusting Shim, Inner .003"	A/R
	46	5HA-044	Pinion Adjusting Shim, Inner .005"	A/R
	47	5HA-045	Pinion Adjusting Shim, Inner .010"	A/R
	48	5HA-023	Pinion Bearing Inner.	1
	49	6N-NF5	Bearing Retainer Nut 3/8" UNF	12
	50	6W-12	Spring Washer.	12
	51	6B-NF 18/B	Bearing retainer bolt (drum brakes only)	12
	51A	6B NF 21	Bearing retainer bolt (disc brakes only)	6
	52	5HA-027	Axle Shaft Oil Seal	2
	53	5HA-056-1	Axle Shaft Bearing Grease Nipple	2
	54	5HA-005-51	Axle Shaft RH. (complete with Nut)	1
	55	5HA-005-51	Axle Shaft LH. (complete with Nut)	1
	56	5HA-029	Axle Shaft Key	2
	57	5HA-025	Axle Shaft Bearing	2
	58	5HA-035-5	Axle Shaft Bearing Retainer	2
	59	5HA-057-3	Hub oil seal assembly	2
	60	4-35-235	Differential cover support	1

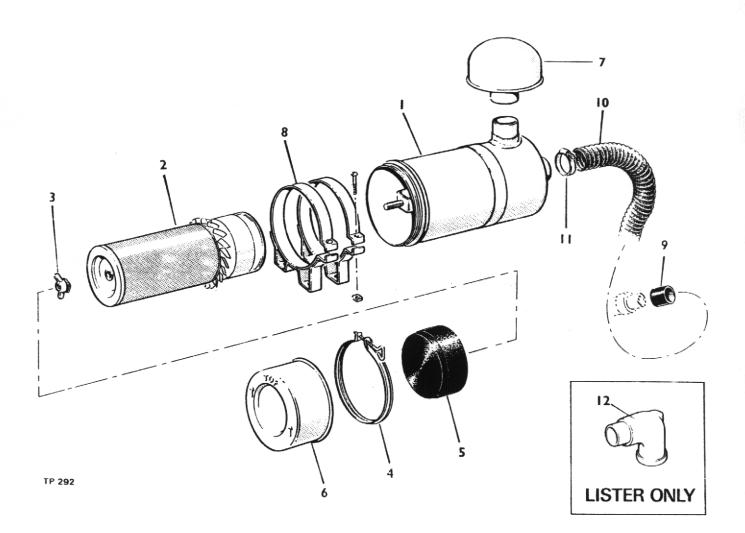


DRIVE AXLE (Cont'd.)

615HA-055-6Wheel stud (drum brakes only) </th <th>Item No.</th>	Item No.
62A5HA-028-56Wheel hub c/w studs (Disc brakes only)6318W-32Axle shaft washer6412SP-18Axle shaft cotter 3/16" x 2"6518-SN-NF-12Axle shaft nut666B-NF-21Brake disc bolt (disc brakes only)676LW-105Brake disc bolt lockwasher (disc brakes only)6810HA-136Brake disc dowel (disc brakes only)696D-16Brake disc dowel (disc brakes only)706B-NF24ACaliper bracket bolt (disc brakes only)715HA-137Caliper bracket (disc brakes only)725HA-028-52Hub & Disc Assembly (disc brakes only)735HA-101-73Service Carrier & Tube Assembly	61 A 62 62 A 63 64 65 66 67 68 69 70 71 72

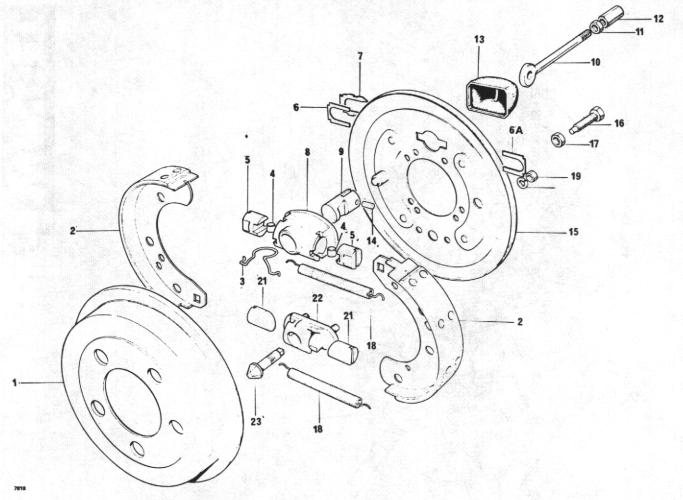


Item No.	Part No.	Description	Qty.
1	10331.A01	Prop Shaft Assembly (Comprising items 2-6)	1
2	C193	Coupling Plate	1
3	10325.A01	Coupling	2
4	6S.5R	Bolt ½ in. UNF x 5 in. Long	2
5	87S.5	Nut ½ in. UNF	2
6	67S.6	Shakeproof Washer ½ in. I.D	2
7	10326.A01	Special Bolt Assembly	4



AIR CLEANER

Item No.	Part No.	Description	Qty.
1	10532A02	Air Cleaner Assembly	1
2	10532A0101	Element	1
3	V600487	Nut & Gasket Kit	1
4	220229002	Clamp Body	1
5	220229003	Skirt, baffle	1
6	220229004	Cup	1
7	10534A02	Stack Cap	1
8	10533A02	Bracket	2
9	10320A06	Sleeve Adapter	1
10		Hose Flexible 2" Bore x 19" Long (Petter)	1
		Hose Flexible 2" Bore x 34" Long (Lister)	1
11	97S12	Clip Hose	2
12	BSE217	Inlet Manifold Elbow (Lister0	1

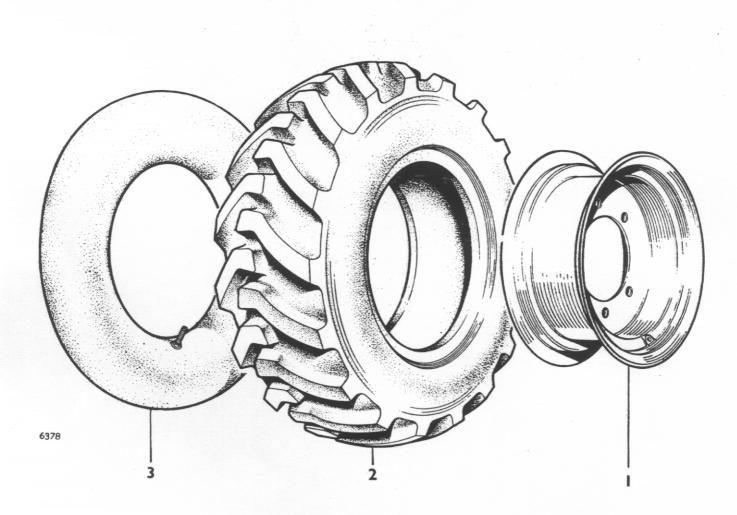


Item	Part No.
1	30088.A0128
2	20298.A0101
3	20298.A0102
4	20298.A0103
5	20298.A0104
6	20298.A0105
6A	20298.A0106
7	20298.A0107
8	20298.A0108
9	20298.A0109
10	20298.A0110
11	20298.A0111
12	20298.A0112
13	20298.A0113
14	20298.A0114
15	20298.A0115
16	1S.02C
17	15.03
18	20298.A0116
19	20298.A0117
20	20298.A0118
21	20298.A0119
22	20298.A0120
23	20298.A0121
24	20298.A0122
25	20298.A0123
26	20298,A0124

Description

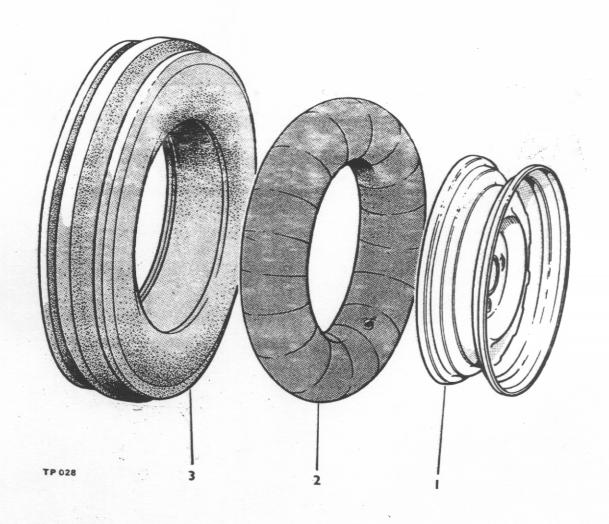
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Brake Drum]	L
Lined Shoe 2	2
Spring 1	
	2
	2
Plate 1	
Plate 1	
Locking Plate 1	
Expander Housing 1	
Plunger 1	
Drawlink 1	5.0
Locknut 1	Ē
Barrel Nut 1	
Dust Cover 1	
Pin 1	Ľ
Brake Back Plate 1	20
Setscrew 5/16" BSF 2	
Nut 5/16" BSF 2	_
Spring 2	-
Nut	
Washer 2	
Tappet Adjuster 2	
Adjuster Housing 1	
Wedge	
Service Kit (Adjuster) (N.I.) A/	
Adjuster Assy. (Compr: 19-25) A/	
Expr. Assy. (Compr: items	
3,4,5,8,9,10,11,12,& 14 A/	'R



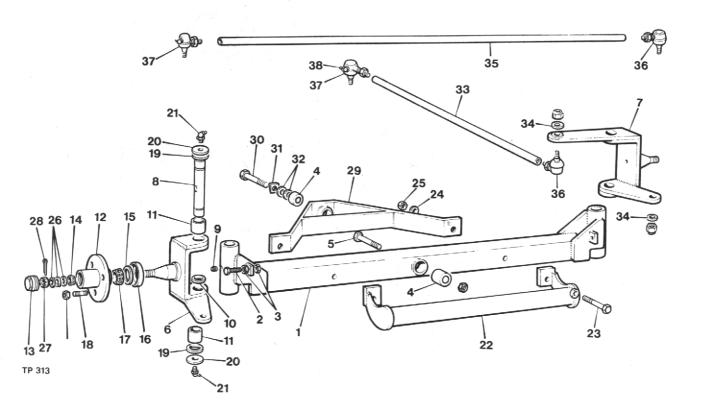
DRIVE WHEELS & TYRES

Part No.	Description	Qty.
24S20	RH Wheel Assembly Complete	1
	LH Wheel Assembly Complete	1
30033A01	Wheel Rim 4.00 x 16	2
20\$09	Tyre 600 x 16-4 Ply	2
23S02	Tube 600 x 16	2
	24S20 24S19 30033A01 20S09	24S20RH Wheel Assembly Complete24S19LH Wheel Assembly Complete30033A01Wheel Rim 4.00 x 1620S09Tyre 600 x 16-4 Ply



STEERING WHEELS & TYRES

Item No.	Part No.	Description	Qty.
1	24S35 LP598	Steering Wheel Complete 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

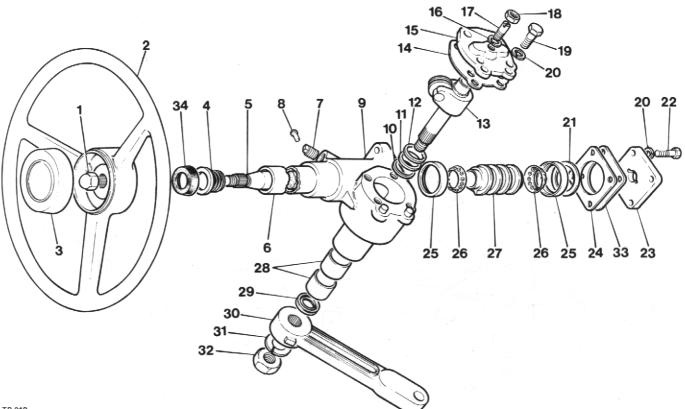


Item No. Part No.

Description

C225	Steering Axle Beam	
79S.7F	Bolt 5/8" Whit x 2" long	
78S.5	Half Nut 5/8" Whit 4	
E2135	Steering Axle & Stabiliser Bush	
C107/A	Steering Axle Pin & Nut	
L267 LH	Stub Axle Assy c/w Nut LH	
C226		
L264	King Pin	
C111A	Stub Axle Assy c/w Nut RH 1 King Pin 2 King Pin Retaining Screw 2 Thrust Washer 2	
C175	Thrust Washer	
C190	King Pin Bush	
C186	Hub Assy. Complete comprising items(13-18,26-28)2	
C186-A	Hub Cap	
K09074	Hub Bearing Outer	
C186-C	Hub Bearing Outer 2 Hub Bearing Oil Seal 2 Dust Cover 2 Hub Bearing Inner 2	
EC2752	Dust Cover .	
K14138-1	Hub Bearing Inner . . .	
0.156		
C180A	Wheel Stud. 6 King Pin Washer Felt 4	
C180B	King Pin Washer Steel	
T90		
C113		
8S.6N	Bumper	
12S.7	Plain Washer M16	
61S.6	Locknut M16	
10S.5	Hub Washer 5/8"	
92S.7	Hub Nut 5/8" BSF Slot	
44S.02C	Hub Split Pin 3/32" dia x 1" long 2	
C103	Steering Axle Stabiliser	
C103A	Stabiliser Pin & Nut	
C162	Standard Taper Washer	
10S.7	Washer 7/8" 4	
C159B	Drag Link 1	
10S.4	Plain Washer 1/2" I/D	
C159A	Track Rod 1	
C159. LH	Steering Ball End c/w Nuts 2	
C159. RH	Steering Ball End c/w Nuts 2	
Т90	Grease Nipple 2	
C177	Wheel Nut 5/8" BSF 6	

Qty.



TP 312

Item No.	Part No.
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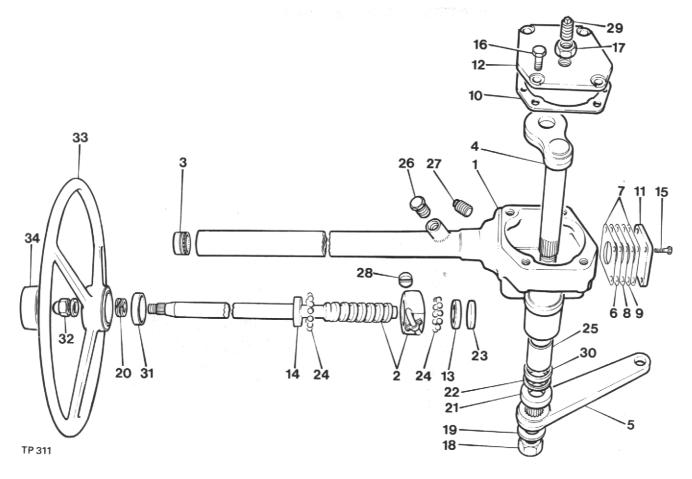
34

=	Description
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34	•	
	2	Ìt

MGA 34849	Steering Column Assy										1
C 318	1, 2, 3, & 30									•	
40064 A 01	Steering Wheel Nut .							٠	•	•	1
	Steering Wheel					·	• ;	1		÷	1
10314 A01	Steering Wheel Cap .				·	·		•	•	•	1
PA3904A			•	•	·	•	•	•		٠	1
P5244/30"	Inner Shaft	-	•		•	•	•	•		•	1
P3911/24"	Outer Tube		•		•	•		٠	•	٠	1
S9033	Oil Plug								•	•	1
S9166	Pin		•							•	1
PA4426	Steering Box c/w Item							•			1
P4151	Thrust Washer										2
P3308	Shim										A/R
P4150	Thrust Washer										2
PA 5229/4½"	Rocker Shaft c/w Roll	ler									1
P3306A	Cover Plate Gasket .										A/R
MA 23984	Cover Plate & Bush .	÷.							<u>_</u>		1
S999	Spring Washer										1
P4222	Adjuster Screw										1
P4221	Nut			÷	÷					1	1
S9240	Setscrew) [Ż							4
S902	Spring Washer	1		Ż			·		÷.		8
P3342	Washer				•	•	•	•	•	,	ĭ
\$9300	Setscrew	•	:	:	•	•	•	•	•	° * ; ,	4
P3907	Bottom Cap		•	:	•	•	•	•	•	1	1
P3301/.005"	Shim	ं	•	•	•	•	•	•	•	•	A/R
P3341	Outer Race	•	•	•	•	•	•	٠.	•	•	2
PA2733	Cage & Balls	•	•	•	•	•	•	•	•	•	2
P3340	Cam	· *	•	•	•	•	•		•	•	1
P3390	Bush	• •	•	•	•	•	•		1	•	2
S9242	Oil Seal	ं	•	•	•	•	•	•	•	•	1
M29629		•	•	•	•	·	•	• 2		۰.	
S955	Drop Arm	. *	•	•	•	·	٠	·	÷.,	1	1
****	Spring Washer	•	•	•	•	•	٠	•	•	•	1
S9332	Nut		•	·	•	•	•	•	•	•	1
P3301G	Bottom Cap Liner .		•	·	·	•	• ;;	•	•	•	2
M33418	Inner Column Shroud		•						•		1

STEERING GEAR (RECIRCULATING BALL TYPE)



Description

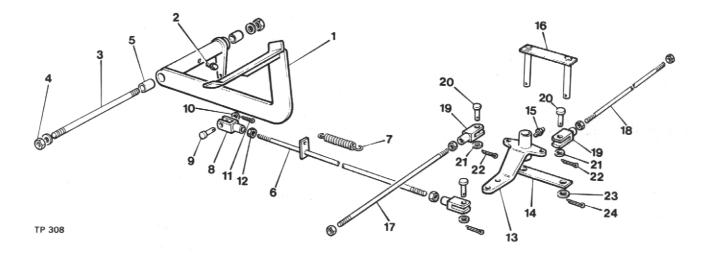
Item No.

Part No.

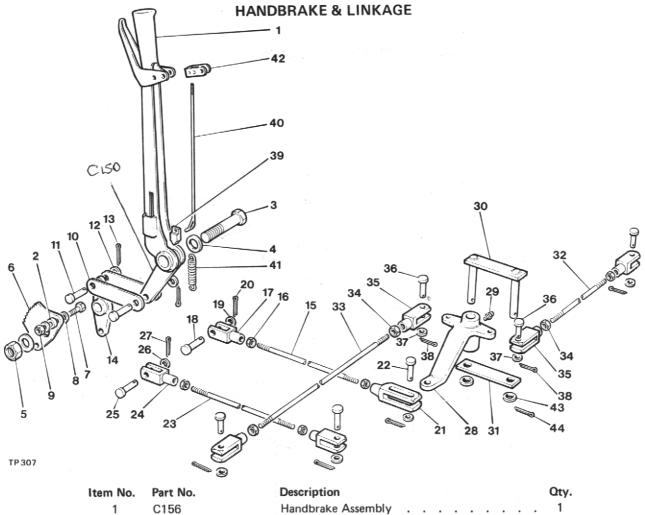
Qty.

	11-077	Steering Gear Complete (less items 5,33 & 34)
1	SA-01-183	Box & Tube Assembly 1
2	SA-02-269	Inner Column Assembly & Main Nut (700mm long) 1
	SA-02-277	Inner Column Assembly & Main Nut (750mm long) 1
3	SA-21-004	Bearing Assembly
4	S-7-103	Rocker Shaft 1
5 ·	2SE 90	Drop Arm 1
6	S-10-14	End Plate Shim .005" 3
7	S-10-15	End Plate Gasket 2
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 1
11	S-11-83	End Plate 1
12	S-12-186	Cover Plate
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
19	12-8-36	Rocker Shaft Tab Washer 1
20	12-8-85	Spring 1
21	12-9-61	Drop Arm Felt Washer 1
22	12-10-7	Oil Seal Retaining Washer 1
23	12-12-26	Inner Column Packing Plate 1
24	17-3-4	Steel Ball
25	19-9-17	Rocker Shaft Bush 1
26	21-8-4	Oil Plug 1
27	21-7-2	
28	24-5-5	Oil Plug
29	25-7-2	Rocker Shaft Adjuster Screw 1
30	27-9-6	Oil Seal 1
31	32-8-8	Dust Cap 1
32	11-7-45	Steering Wheel Nut 1
33	40064 A01	Steering Wheel
34	10314 A01	Steering Wheel Cap
U		erroring transferrence with a second s

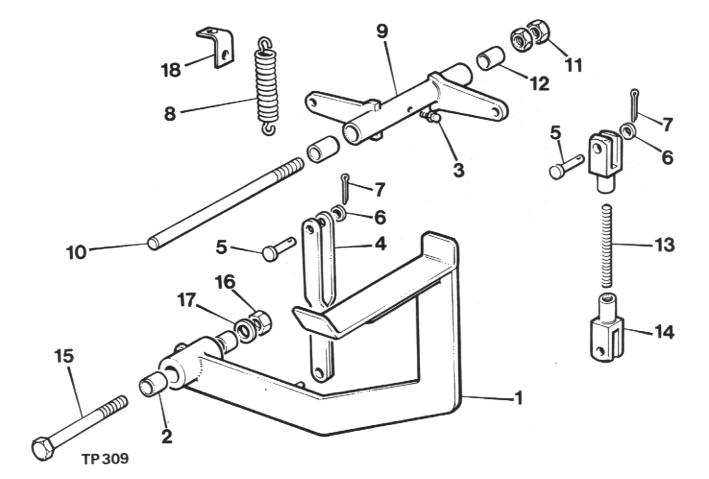
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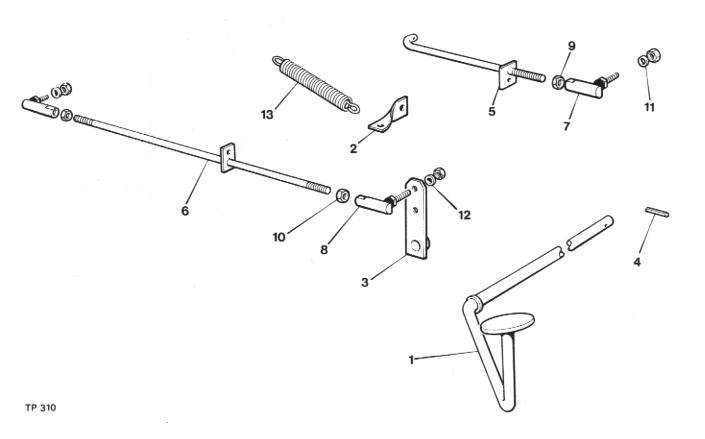
Item No.	Part No.	Description				Qty.	
1	C122	Footbrake Pedal		•	•	1	
	C258	Foot Brake Pedal (Disc Brakes)				1	
2	306001	Grease Nipple				1	
3	C319	Pedal Pin				1	
4	9S.6	Nut ¾" UNF				2	
5	WB1212	Pedal Bush				2	
6	C158A	Footbrake Rod (Drum Brakes Only)				1	
7	C173B	Brake Return Spring (Drum Brakes Only)				1	
8	C174A	Clevis Fork End (Drum Brakes Only)				2	
9	C174X	Clevis Pin (Drum Brakes Only)		•		2	
10	10S.3	Plain Washer 3/8" (Drum Brakes)				2	
11	44S.02B	Split Pin 3/32" dia. (Drum Brakes)				1	
12	2S.4	Nut 3/8" BSF (Drum Brakes)				2	
13	C272	Compensator Lever (Drum Brakes)				1	
14	C189A	Compensator Link (Drum Brakes)				1	
15	5ST 100	Grease Nipple				1	
16	C271	Compensator Link (Drum Brakes)				1	
17	C171A	Brake Rod (Drum Brakes)				1	
18	C171B	Brake Rod (Drum Brakes)				1	
19	C174C	Clevis Fork End (Drum Brakes)				2	
20	C174Y	Clevis Pin (Drum Brakes)			•	2	
21	10S.2	Washer 5/16" dia. (Drum Brakes)				2	
22	44S.02B	Split Pin 3/32" dia. (Drum Brakes)				2	
23	105.4	Plain Washer ½" I/D			•	2 2 2	
24	44S.03C	Split Pin 1/8" dia. x 1" long	(. 18) (. 13)	99 • *	•	2	
		그는 그는 그는 아내는 방법은 가까 물건을 받은 것에서 빠른 그 것을 가지 않는 것이 같아요.					



m No.	Part No.	Description					Qty.
1	C156	Handbrake Assembly					1
2	C179	Handbrake Quadrant Distance Piece					2
3	C164	Handbrake Lever Carrier Bolt	•				1
4	10S.6	Plain Washer 3/4"	•	•			2
5	191507	Locknut 3/4" Whit					2
6	C156A	Handbrake Quadrant					1
7	8S.4C	Bolt M10 x 35mm long					2
8	12S.5	Plain Washer M10					4
9	61S.4	Locknut M10					2
10	C153	Handbrake Lever Connecting Link					2
11	C174X	Clevis Pin					2
12	10S.3						2 2 2 2
13	44S.02B	Split Pin 3/32" dia				•	
14	C132	Handbrake Transfer Lever				•	1
15	C158 B	Handbrake Rod (Drum Brakes) .				•	1
16	2S.4	Nut 3/8" BSF (Drum Brakes) .				٠	2
17	C174A	Clevis Fork End (Drum Brakes) .				•	1
18	C174X	Clevis Pin (Drum Brakes)		•		-	1
19	10S.3	Plain Washer 3/8" (Drum Brakes)				•	2
20	44S.02B	Split Pin 3/32" dia. (Drum Brakes)				•	2
21	C174B	Slotted Fork End (Drum Brakes)					1
22	C174XL	Clevis Pin (Drum Brakes)				•	1
23	C218-3	Handbrake Rod (Disc Brakes) .					1
24	C174A	Clevis Fork End (Disc Brakes) .					2
25	C174X	Clevis Pin (Disc Brakes)					2
26	10S.3	Plain Washer 3/8" (Disc Brakes) .					2
27	44S.02B	Split Pin 3/32" (Disc Brakes)					2
28	5ST 76	Compensator Lever (Disc Brakes)					1
29	5ST 100	Grease Nipple			•		1
30	C314	Compensator Link (Disc Brakes)					1
31	C315	Compensator Link (Disc Brakes)				•	1
32	C218-1	Brake Rod (Disc Brakes)		•	۰.	•	1
33	C218-2	Brake Rod (Disc Brakes)				•.	1
34		Nut 3/8" BSF		•	•	•	
35	C174C	Clevis Fork End (Disc Brakes) .				٠	4
36	C174Y	Clevis Pin (Disc Brakes)	•••	•	•	-	4
37	10S.2	Washer 5/16" dia. (Disc Brakes) .				•	4
38	44S.02B	Split Pin 3/32" dia. (Disc Brakes)	• •	•	•		4
39	000913C	Handbrake Pawl				-	1
40	14419.A	Handbrake Pawl Rod	• •	•	•		1
41	14423-A	Handbrake Pawl Spring	•••	•		•	1
42	14425-A	Latch Pivot Arm	•••	•		-	1
43	10S.4	Plain Washer ½" I/D	• •		•	÷	2
44	44S.03C	Split Pin 1/8" dia. x 1" long					2

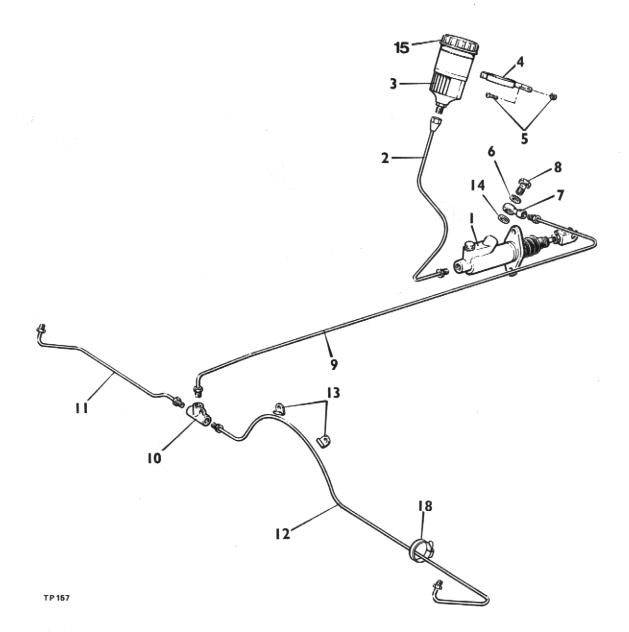


Item No.	Part No.	Description	ty.
1	C126	Clutch Pedal	1
2	WB1010	Clutch Pedal Bush	2
3	306001	Grease Nipple	2
4	C127	Clutch Connecting Fork	1
5	C174X		3
6	10S.3		3
7	44S.02B		3
8	C173B	Clutch Return Spring	1
9	C121	Clutch Transfer Lever	1
10	C313	Transfer Lever Pivot Pin	1
11	2S.5	Nut ½" BSF	2
12	WB0808	Transfer Lever Bush	2
13	C184	Adjusting Rod.	1
14	C174A	Clutch Clevis End	2
15	1S.7L	Clutch Pedal Bolt 5/8" BSF x 31/" long	1
16	75S.7	Locknut 5/8" BSF	1
17	10S.5	Plain Washer 5/8"	1
18	C163	Clutch Spring Retainer	1

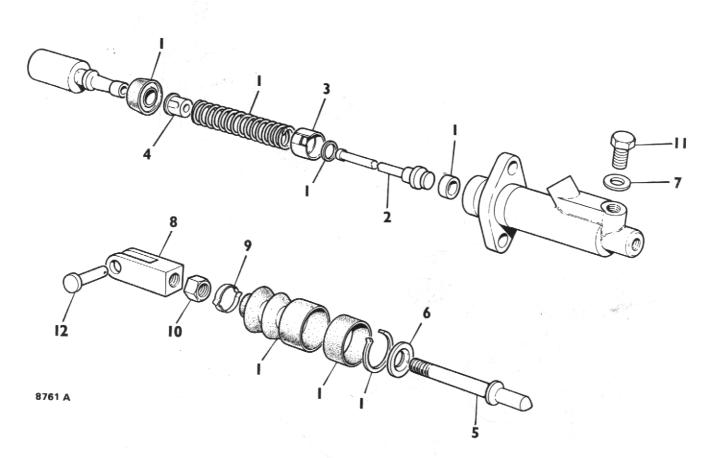


Item No.	Part No.	Description									Qty
1	C137	Accelerator Pedal									1
2	C163	Accelerator Spring Retainer					•			•	1
3	C308	Accelerator Lever (Lister) .			٠						1
4	C251-1	Tension Pin			•		• •		•		1
5	10369.A01	Accelerator Rod (Petter) .		•	•				•	•	1
6	4S 126	Accelerator Rod (Lister) .		٠				•	•	•	1
7	C160B	Rod Ball End (Petter)			୍କ	े.	•		•	•	1
8	C160B	Rod Ball End (Lister)		•	•	2			٠	•	2
9	2S.2	Nut ¼" BSF (Petter)									2
10	2S.2	Nut ¼" BSF (Lister)	•	•			•	•	•	•	4
11	10S.1	Washer Plain ¼" (Petter) .				•	•	•	•	•	1
12	10S.1	Washer Plain ¼" (Lister) .			•	•	•	•		•	2
13	C173D	Accelerator Return Spring .	•		÷	•	·	•		·	1

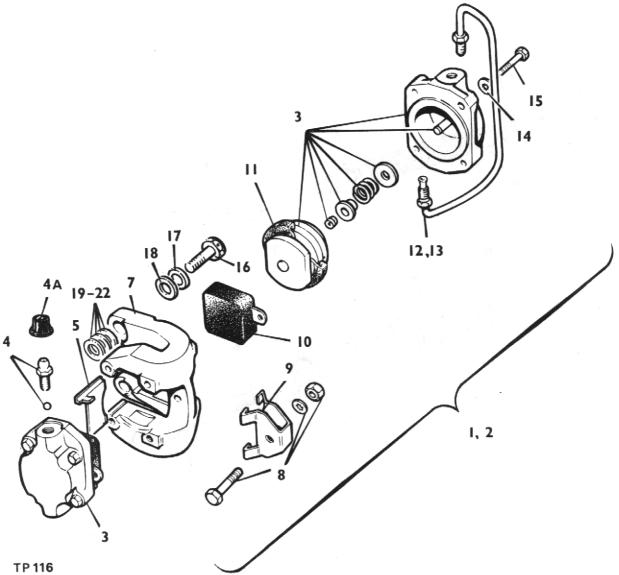
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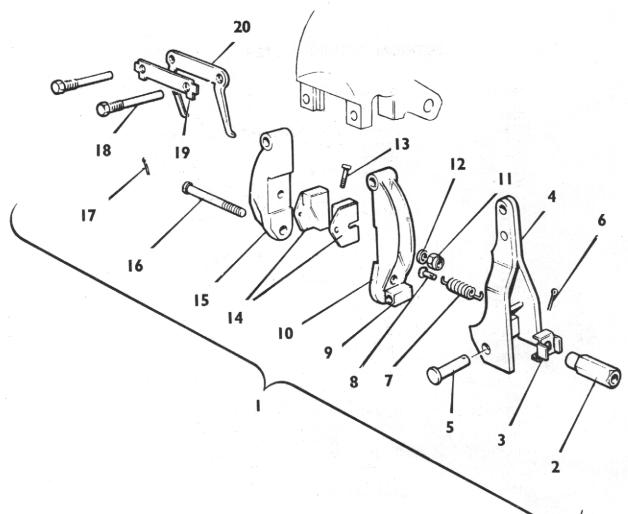
Item No.	Part No.	Description	lty.
1	64067970	Master Cylinder (complete)	1
2	DM194-1	 Pipe ¼" dia x 21" long (Master cylinder to reservoir) 	1
3	64046158	Reservoir	1
4	64477544	Reservoir clip	1
5			2
6	378700	Copper Washer	1
7	64474287	Banjo	1
8	376102W	Banjo Bolt	1
9	DM78-1	Pipe 3/16" dia x 38" Long (master cylinder to tee).	1
10	64474341	Tee Piece	1
11	DM78-2	Pipe 3/16" dia x 21" Long (tee to RH Brake caliper)	1
12	DM78-1	Pipe 3/16" dia x 38" Long (tee to LH Brake caliper)	1
13	4S133	Clip	1
14	378703	Copper Washer	1
15	64474602	Reservoir Cap	1
16	C220	Disc Brake Guard (not illustrated)	1
17	10353.A01	Brake Header Tank Bracket (not illustrated)	1
18	C260-1 3	lubilea Clip	2



Item No.	Part No.	Description	Qty.
	64067970	Master Cylinder (Complete)	1
1	SP 1996/2	Seal Kit	1
2	378641	Valve Stem	1
3	318001	Valve Spacer	1
4	64673391	Valve Spring Retainer	1
5	351257 W	Push Rod	1
6	378242	Retainer Washer	1
7	378700	Washer	1
8	64671286	Clevis	1
9	378312	Dust Cover Retainer	1
10	64100052	Locknut	1
11	64110348	Plug	1
12	C174 Y	Clevis Pin	1



Item No.	Part No.	Description		Qty.
1	CB 90262	Caliper Assembly Complete (RH)		1
2	CB 90263	Caliper Assembly Complete (LH)		1
3	VBO 5505	Piston and Cylinder Assembly .	. (28.)	2
4	VBO 8378	Bleed Screw and Ball Assembly .		1
4A	CBO 849	Dust Cover (Bleedscrew)		1
5	VBO 5133	Plate, Support		1
6	CB 60253	Body, Caliper (LH)		1
7	CB 60252	Body, Caliper (RH)		1
8	VBO 8491	Nut, Bolt and Washer (Keep Plate)		1
9	VBO 5123	Keep Plate		1
10	VBO 8360Y	Friction Pad Complete (Set of 4)		1 set
11	VBO 8210A	Seal Kit (Dust & Piston)		2
12	VBO 3927	Bridge Pipe Assembly (LH)		1
13	VBO 3926	Bridge Pipe Assembly (RH)		1
14	VBO 6101L	Washer, Shakeproof		8
15	VBO 5100	Bolt, Retaining (Cylinder)		8
16	7BNF22B	Caliper mounting Bolt		4
17	7W16	Washer		4
18	7W14	Washer		4
19	5HA138	Shim .003''		A/R
20	5HA139	Shim .005"		A/R
21	5HA140	Shim .010"		A/R
22	5HA141	Shim .030''		A/R



TP 073

1 CB 90256 Handbrake Assembly complete RH 1 CB 90257 Handbrake Assembly complete LH 1 2 CB 20258 Adjustment Nut 1 3 VBO 8307 Friction Spring 1 4 CB 20562 Lever Assembly 1 5 VBO 8315 Hinge Pin 1	<i>.</i>
2 CB 20258 Adjustment Nut	
3 VBO 8307 Friction Spring .	
4 CB 20562 Lever Assembly .	
4 CB 20562 Lever Assembly .	
6 VBO 6135 D Split Pin	
7 VBO 7329 Return Spring	
8 VBO 7330 Spring Anchor	
9 VBO 8308 Pivot Seat	
10 CB 60249 8308 Pad Carrier Assembly Inner Complete with Pivot	
Seat	
11 VBO 6050 Nut 2 B.A	
12 VBO 6101F Washer	
13 VBO 4124 Bolt	
14 CB 20311Y Friction Pad	
15 VBM 4573 Pad Carrier Outer	
16 CB 20289 Bolt	
17 VBO 6158G Split Pin	
18 VBO 4190 Bolt	
19 VBO 4226 Tab Washer	
20 VBM 4635/1 Retraction Plate	

ELECTRICAL OPTIONS (LISTER)

Part No. Description Qty. C282 Control Panel 1 C230 Mudflap (includes lamp support 1 L.H. 1. R.H.) 2 DSE 134 Battery Frame 1 CSE 150 1 2ST 106 2 9S.1 4 Battery Lid Nut %" UNF Self Locking 87S.1 2 . 10S.1 4 . CP13/11 1 1720/F Head Lamp 2 Head Lamp Bolt M10 x 30mm long . . . 8S.4B 2 . 59S.03 Head Lamp Nut - Self Locking M10 . 2 Head Lamp Washer M10 12S.5 2 . . 11501V Side Lamp 2 31495 Lightswitch . . 1 Lightswitch Plate WT201 1 54331311 1 31973 1 54335169 1 . 54466 2 10381.A01 1 10382.A01 1 10383.A01 Dynamo Guard Bracket L.H. 1 Dynamo Guard Bolt Hex. Hd. M6 x 20mm long . 11**S**.2B 2 Dynamo Guard Washer M6 12S.2 2 61S.2 Dynamo Guard Nut Self Locking M6 . . 2 . . Indicator Relay Unit 53359 4 53020 1 31190 1

DECIMAL, FRACTIONAL AND METRIC EQUIVALENTS

	In	ches	Milli-	Inches	Milli-
	Fractions	Decimals	metres	Fractions Decima	motroe
		0.015625	0.397	33/64 0.5156	25 13.097
		0.03125	0.794	17/32 0.5312	5 13,494
3/64		0.046875	1.191	35/64 0.5468	
		1/16 - 0.0625	1.588	9/16 - 0.5625	14 288
5/64		0.078125	1.984	37/64 0.5781	25 14.684
		0.09375	2.381	19/32 0.5937	5 15.081
7/64		0.109375	2.778	39/64 0.6093	75 15.478
		1/8 — 0.125	3.175	5/8 0.625	15 875
9/64		0.140625	3.572	41/64	25 16.272
	5/32 -	0.15625	3.969	21/32 0.6562	5 16.669
11/64		0.171875	4.366	43/64 0.6718	
		3/16 - 0.1875	4,763	11/16 - 0.6875	17.463
13/64		0.203125	5,159	45/64 0.7031	25 17.859
	7/32 -	0.21875	5,556	23/32 0.7187	
15/64 ·		0.234375	5.953	47/64 0.7343	75 18.653
		1/4 — 0.250	6.350		
17/64		0.265625	6.747	49/64	25 19.447
	9/32 -	0.28125	7.144	25/32 0.7812	
19/64 -	-/	0.296875	7.541	51/64	10.011
		5/16 - 0.3125	7.938		
21/64 -		0.328125	8.334	13/16 0.8125 53/64 0.8281	20.638
	11/32 -	0.34375	8.731	27/32 0.8437	
23/64 -		0.359375	9.128	55/64	
20/01		3/8 - 0.375	9.525		
25/64 -		0.390625	9.922	7/8 0.875 57/64 0.8906	22.225
20/04	13/32 -	0.40625	10.319		
27/64 -	10/02	0.421875	1	29/32 0.9062	1 201010
2//04 -		7/16 - 0.4375	10.716	59/64 0.9218	
29/64 -		0.453125	11.113	15/16 0.9375 61/64 0.9531	23.813
20/04 -	15/32 -	0.46875			
31/64 -	15/32	0.484375	11.906	31/32 0.9687	5 24.606
01/04 -		1/2 - 0.500	12.303	63/640.9843	
Party of the local division of the local div		1/2 - 0.500	12.700	1 1.000	25.400

INCHES INTO MILLIMETRES

Inches	0	1	2	3	4	5	6	7	8	9
0	0	25.40	50.80	76.20	101.60	127.00	152.40	177.00	202.00	000.00
10	254.00	279.40	304.80	330.20	355.60	381.00	406.40	177.80 431.80	203.20 457.20	228.60 482.60
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	1470.00	4.400.00
60	1524.00	1549.40	1574.80	1600.20	1625.60	1651.00	1678.40	1701.80	1473.20 1727.20	1498.60
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