

OPERATING INSTRUCTIONS & SPARE PARTS LIST

5S DIESEL DUMPER (CAPACITY 35 CWT)

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INTRODUCTION

This Parts & Operators Manual is a re-print of the manual last published in 1978 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 5S Two Wheel Drive Dumpers

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

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

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

Fig. 1

BEFORE THE DUMPER IS PUT INTO SERVICE, ALWAYS CHECK THE FOLLOWING POINTS.

1. Engine

Check the oil level on the dipstick (A), topping up if necessary to the full mark. See also 'Recommended Oils', page 11.

2. Gearbox

Check the oil level on the dipstick (B), topping up if necessary to the full mark. See also 'Recommended Oil', page 11.

Drive Axle 3.

Remove level/filler plug (C) and check that oil is up to bottom of hole. Top up if necessary. See also 'Recommended Oils', page 11.

Fuel Tank 4.

Fill tank (D) with diesel oil until approximately 1" from the top.

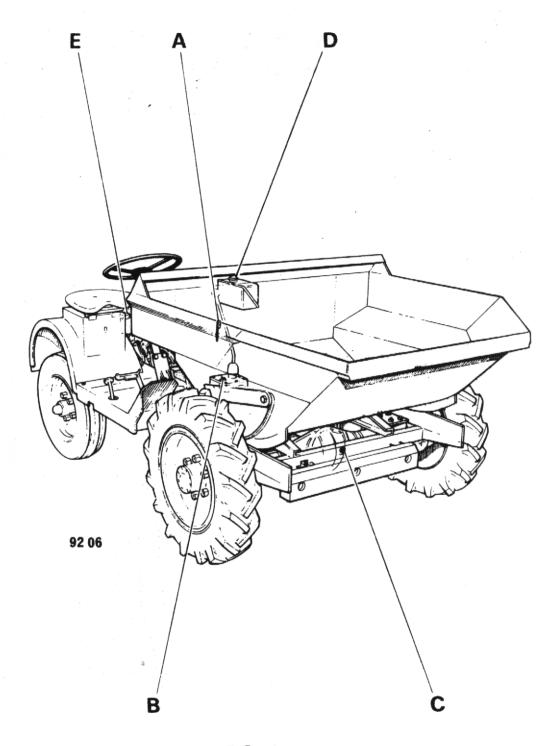
Never allow fuel level to fall to below 2" deep in the bottom of the tank. NOTE:

Brake System 5.

Ensure that the brake master cylinder reservoir (F) is full of brake fluid. Top up if necessary, to within 1/4" of the top of the reservoir. Use only Girling Crimson Brake Fluid.

Miscellaneous 6.

Check 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.





OPERATION

Starting

Fig. 2 (Petter); Fig. 3 (Lister)

1. Lift red-painted overload stop (A) situated on fuel pump immediately above priming level (B), and move fuel pump rack (C) into fully-open position (PETTER ENGINE).

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

2. Operate priming lever (B) six times (PETTER ENGINE).

NOTE: This is unnecessary if engine is already warm.

- 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.
- 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.
- Set overload lever (D) horizontal when engine starts (LISTER ENGINE).

Stopping

Fig. 2 (Petter); Fig. 3 (Lister)

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

Push overload lever to its lowest position (LISTER ENGINE).

IMPORTANT:

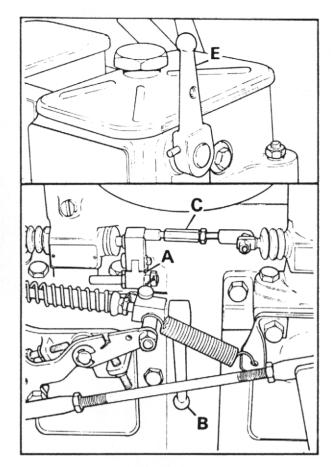
- DO NOT stop engine by means of decompression lever, this will lead to damage valve seats and cylinder head joints.
- DO NOT stop engine by closing fuel tap or by allowing fuel tank to run dry. This will allow air into fuel lines and necessitate bleeding and priming system.

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

Gear Shift Lever

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.



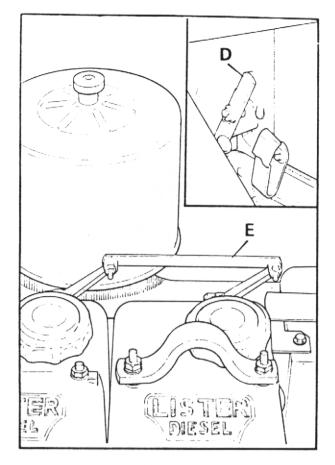


FIG 2

FIG 3

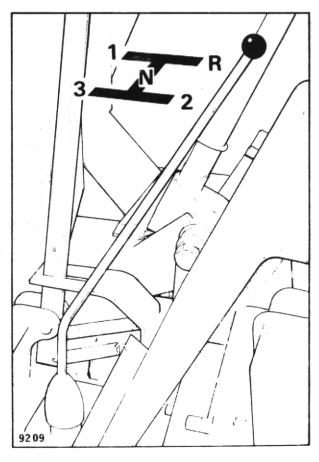


FIG 4

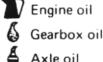
GENERAL MAINTENANCE

Lubrication Fig. 5

Daily		No. of points
$\bigcap 1$	Engine oil	1
2	Fuel Tank	1
Weekly		
3	Gearbox – oil	1
4	Drive Axle – oil	1
5	Brake Master Cylinder Reservoir – brake fluid	1
6	Footbrake Pedal – grease	1
7	Clutch Pedal – grease	1

7	Clutch Pedal – grease		
8	Clutch Cross Shaft – grease		
9	Steering Axle and Ball Ends – grease		
10	Steering Box - oil		

Key



Axle oil

NOTES: 1. Rear Axle Articulation Points consists of silentbloc bushes and do not require lubrication.

2. For full details on the lubrication and maintenance of the engine, refer to the appropriate manufacturer's manual.

Brake fluid

Grease gun

Diesel fuel

3 8

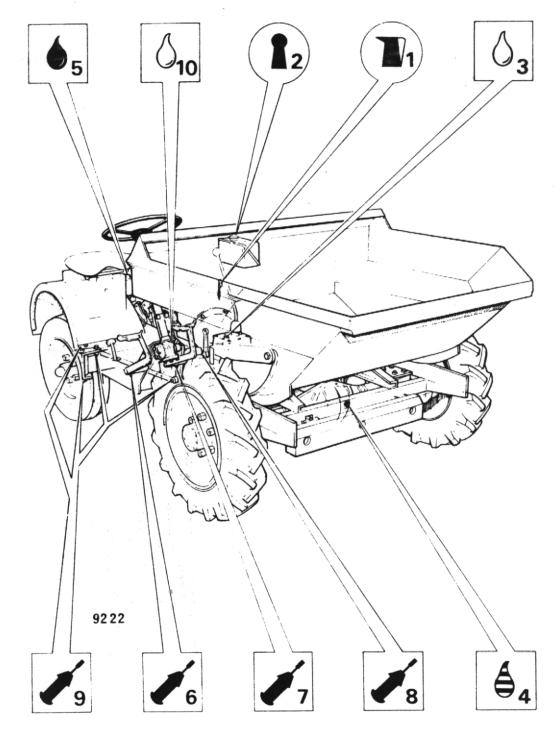
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Recommended Oils

See page 11.

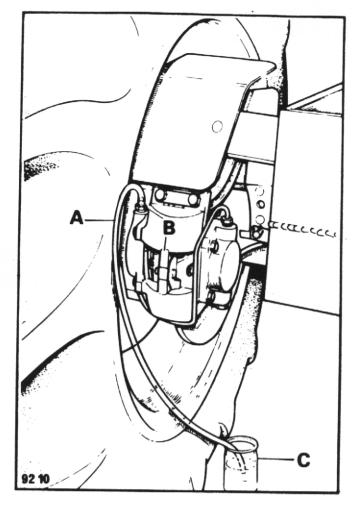
Periodic Maintenance

- 1. DAILY check engine oil level and fill to full mark on dipstick, if necessary.
- 2. DAILY fill fuel tank, or as often as proves necessary, to within approximately 1" of top of tank never allow there to be a depth of less than 2" of fuel in the tank.
- 3. WEEKLY check oil level in gearbox and fill to full mark on dipstick, if necessary.
- 4. WEEKLY remove level/filler plug from drive axle. Oil level should be to bottom of hole. Top up if necessary.
- 5. WEEKLY check brake fluid in master cylinder reservoir and top up if necessary, to within 1/4" of top.
- 6. WEEKLY apply grease to all grease nipples.
- 7. WEEKLY check all wheel nuts and tighten, if necessary.
- 8. OCCASIONALLY check all nuts and bolts and tighten, if necessary.





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Brake System

The brake system is designed to require the minimum of maintenance, and, providing that the hydraulic fluid in the reservoir is not allowed to fall below the recommended level no defect should normally occur. Fluid loss must be supplemented by topping up the reservoir with Girling Crimson Brake Fluid. No other fluid may be used. If air is present in the system, it will be indicated by sluggish response of the brake or 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 to a very low level. These defects must be remedied immediately and the complete system bled.

To bleed the system, proceed as follows. During the operation it is essential that the reservoir level is kept topped up to prevent further air from being drawn into the system. Only use new fluid for topping-up.

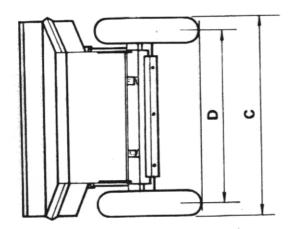
Fig. 6

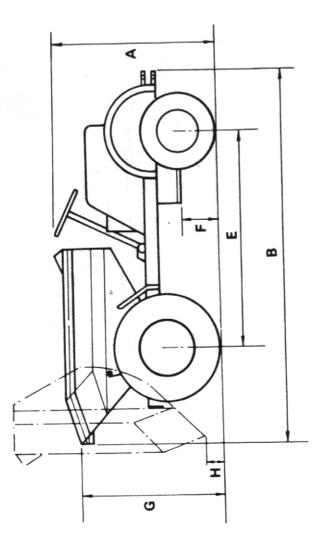
- 1. Check that all connections are tight and all bleed screws are closed.
- 2. Fill reservoir with Girling Crimson Brake Fluid.
- 3. Attach bleeder tube (A) to bleed screw (B) of one wheel and immerse other end in a small quantity of brake fluid contained in a glass jar (C). Slacken bleed screw and operate brake pedal up and down through its full stroke until fluid pumped into jar contains no air bubbles. Hold down pedal and close bleed screw. Remove bleeder tube and release pedal.
- 4. Repeat on other wheel.
- 5. Lock both bleed screws and top up reservoir to correct level.
- 6. Apply normal working load on brake pedal for two or three minutes and examine entire system for leaks.

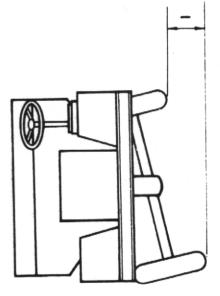
SPECIFICATION OF 5S DUMPER

Dimensions

Α	Overall height	4' 10"	(1.49 m)
В	Overall length	10′5″	(3.17 m)
С	Overall width	6′0″	(1.82 m)
D	Track	5′4″	(1.62 m)
E	Wheel base	5' 10"	(1.78 m)
F	Ground clearance	11″	(0.28 m)
G	Loading height	4′0″	(1.22 m)
н	Discharge height	3½"	(0.09 m)
1	Articulation	1′2″	(0.35 m)
	Turning circle	26' 6"	(8.076 m)
Skip	Capacities		
	Water	33 cu. ft.	934 litres
	Struck	38 cu. ft.	1076 litres
	Heaped	48 cu. ft.	1359 litres
			1000 111103
Nett	Weight	1 ton 7 cwt. 2 qtrs.	1396 kgs.
Max	imum Payload	1 ton 15 cwt.	1778 kgs.







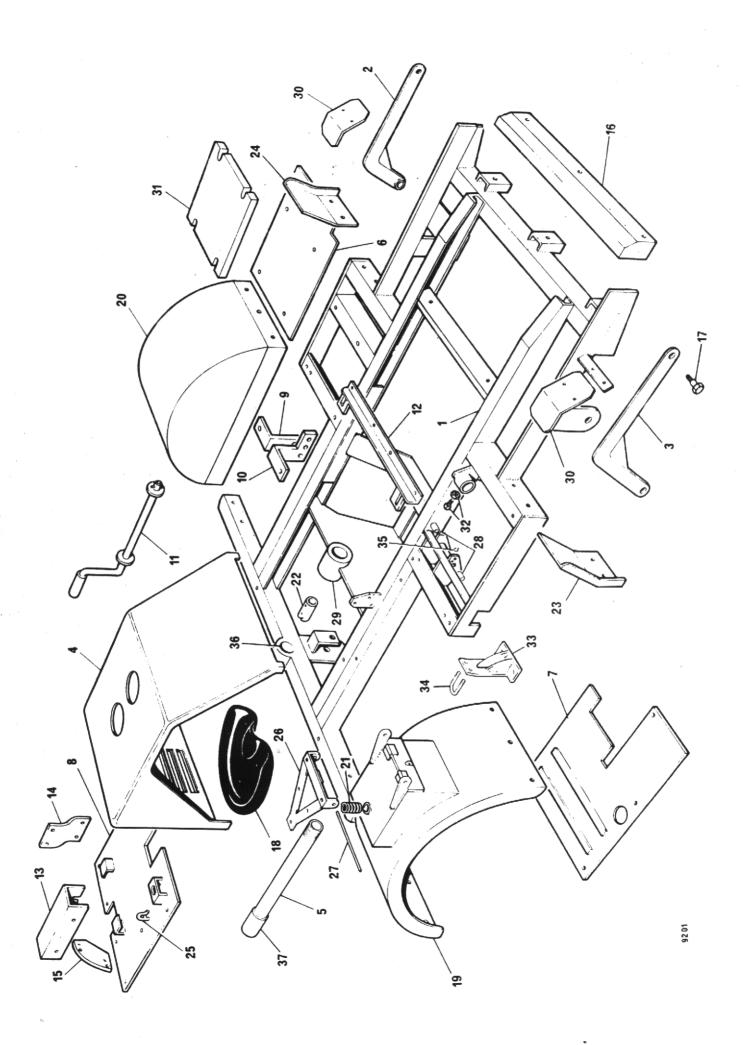
RECOMMENDED LUBRICATING OILS

			& STEERING BOX	GEARBOX	& OTHER GREASE POINTS	HYDRAULIC SYSTEM
SUN	SUMMER	ESSOLUBE HDX 20W	GEAR OIL GP85W/140	ESSOLUBE HDX 30	BEACON 2	NUTO H32
ABC 0-3 BEL	ABOVE 32 ⁰ 0-32 ⁰ BELOW 0 ⁰ C	ESSOLUBE HDX 30 ESSOLUBE HDX 20W ESSOLUBE HDX 10W	GEAR OIL GP 85W/140 GEAR OIL GP 85W/140 GEAR OIL GP 80W	ESSOLUBE HDX 30	BEACON 2	NUTO H68 NUTO H32 NUTO H22
NIN	SUMMER WINTER	DEUSOL CRB 20	DEUSOL GEAR EP 90	DEUSOL CRB 30	CASTROL SPHEEROL APT 2	
ABC 0-3 BEL	ABOVE 32 ⁰ C 0-32 ⁰ C BELOW 0 ⁰ C	DEUSOL CRB 30 DEUSOL CRB 20 DEUSOL CRB 10	DEUSOL GEAR EP 140 DEUSOL GEAR EP 90 DEUSOL GEAR EP 80	DEUSOL CRB 30	CASTROL SPHEEROL APT 2	CASTRUL HYSPIN AWS 32
SUN	SUMMER	ROTELLA SX OIL 20/20W	SPIRAX 90 EP	ROTELLA SX OIL 30	RETINAX A	
ABOVE 0-32°C BELOW	ABOVE 32 ⁰ C 0-32 ⁰ C BELOW 0 ⁰ C	ROTELLA SX OIL 30 ROTELLA SX OIL 20/20W ROTELLA SX OIL 10W	SPIRAX 140 EP SPIRAX 90 EP SPIRAX 80 EP	ROTELLA SX OIL 30	RETINAX A	TELLUS OIL 3/
SUN	SUMMER	VANELLUS M20W	GEAR OIL SAE 90 EP	VANELLUS M30	ENERGREASE L2	
ABC 0-3	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	ENERGOL HLP 65
SUN	SUMMER	DELVAC 1220	MOBILUBE HD 90 MOBILUBE GX 90	DELVAC 1230		
ABO	ABOVE 32 ⁰ C	DELVAC 1230	MOBILUBE HD 140 MOBILUBE GX 140		MUBILGREASE MP MOBILGREASE	DTE 24
0-32°C	2°C	DELVAC 1220	MOBILUBE HD 90 MOBILUBE GX 90		SOPER	
(Overseas) BELOW 0 ⁰ ALL TEMPERATURES	BELOW 0°C RATURES	DELVAC 1210 DELVAC SPECIAL 10W-30	MOBILUBE HD 80 MOBILUBE GX 80	DELVAC 1230		
(U.K.) SUM WIN	SUMMER	CENTLUBE HD 20	CENTURY EP 90	CENTLUBE HD 30	REGULUS A2	CENTURY PWLA HYD OIL
	ABOVE 32°C 0°C32°C BELOW 0°C	CENTLUBE HD 30 CENTLUBE HD 20 CENTURY ROIL 10W	CENTURY EP 140 CENTURY EP 90 CENTURY EP 80	CENTLUBE HD30	REGULUS A2	CENTURY PWLA HYD OIL

SPARE PARTS SECTION

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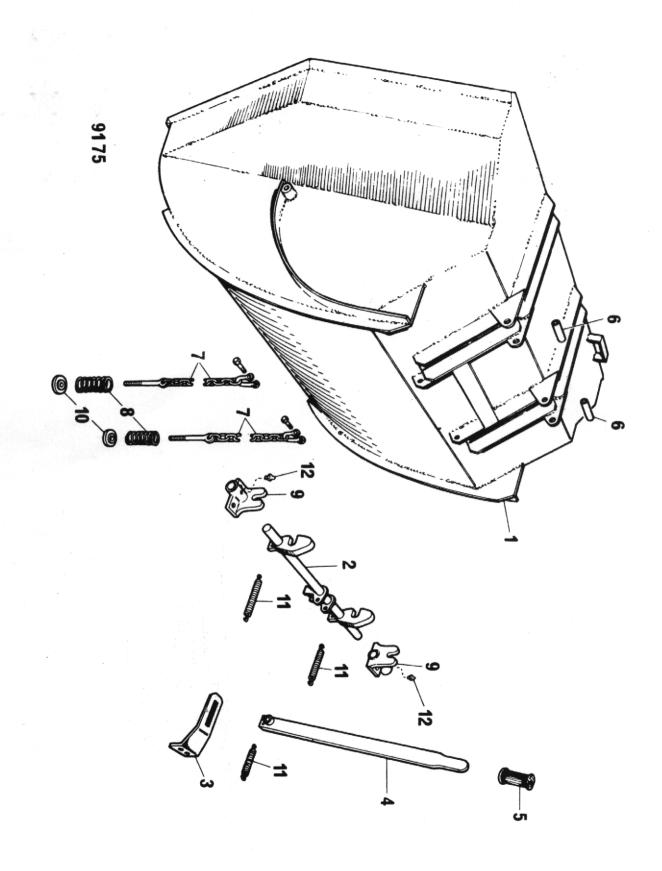
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CHASSIS, WINGS, ETC.

Item No.	Part No.	Description
1	5S/100	Chassis Frame (Petter PH2)
1A	5S/119	Chassis Frame (Lister SR2)
2	5S/106/N	Skip Radius Rod (Nearside)
3	5S/106/O	Skip Radius Rod (Offside)
4	F.510	Engine Cover (Petter PH2)
4A	4S/122	Engine Cover (Lister SR2)
5	5S/111	Exhaust Pipe (Petter PH2)
6	5S/103	Nearside, Cover
7	5S/104	Driver's Side, Cover
8	5S/105	Rear Cover (Petter PH2)
8A	5S/131	Rear Cover (Lister SR2)
9	Т/9	Gearbox Support (Nearside)
10	T/10	Gearbox Support (Offside)
11	F.534	Starting Handle (Petter PH2)
11A	L.294	Starting Handle (Lister SR2)
12	5S/110	Engine Cover Support (Petter PH2)
12A	5S/123	Engine Cover Support (Lister SR2)
13	F.539	Engine Fuel Tank Support (Petter PH2)
14	F.540	Engine Fuel Tank Support (Petter PH2)
15	F.541	Engine Filter Bowl Support
16	C.147	Ballast Weight (Front)
17	C.176	Skip Radius Rod Bolt
18	C.182	Pan Seat
19	L.252A	Rear Mud Wing R.H.
20	L.252B	Rear Mud-Wing L.H.
21	5ST99	Seat Spring
22	L.259P	Starter Dog
22A	L.259L	Starter Dog (Lister SR2)
23	5S/108.R.H.	Mudflap, Drive Wheel (Offside)
24	5S/108.L.H.	Mudflap, Drive Wheel (Nearside)
25	L.287B	Starting Handle Clip and Spring
26	5ST80	Seat Frame
27	4-35-79	Seat Rod
28 29	WB.0808	Accelerator Holder Bush
29 29A	4S/100B21A 5S/126	Starter Dog Shroud Starter Dog Shroud (Lister SR2)
30	55/109	Disc Brake Cowling
31	C.181	Ballast Weight (Side)
32	C.212	Locking Nuts and Bolts
33	C.117	Support – Steering Column
34	C.125	U-Bolt and Nuts
35	TST	Grease Nipple
36	5S/127	Starting Handle Support (Lister SR2)
37	5S/111B	1.1/2" B.S.P. Socket (Petter PH2)

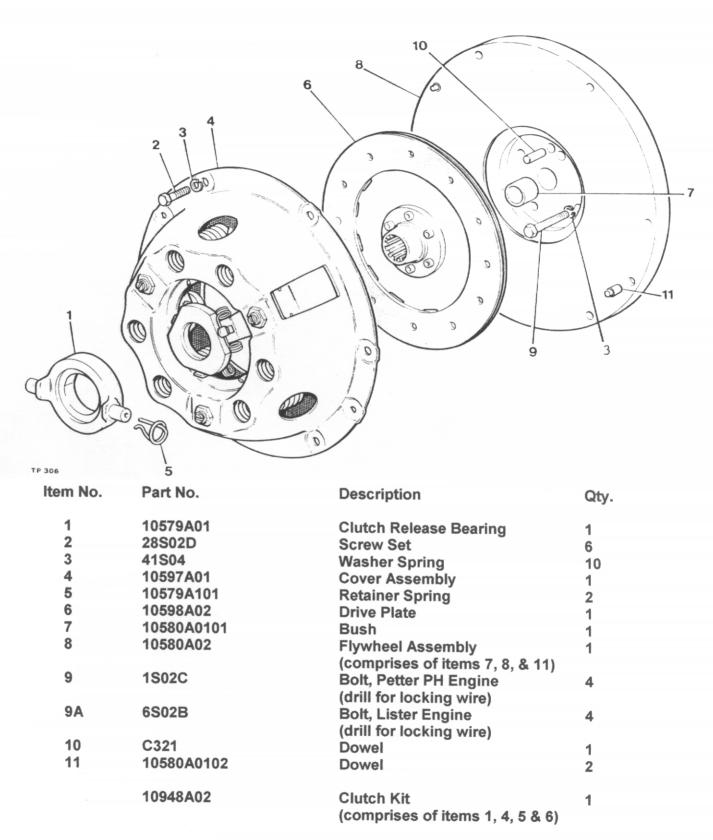
No. Off



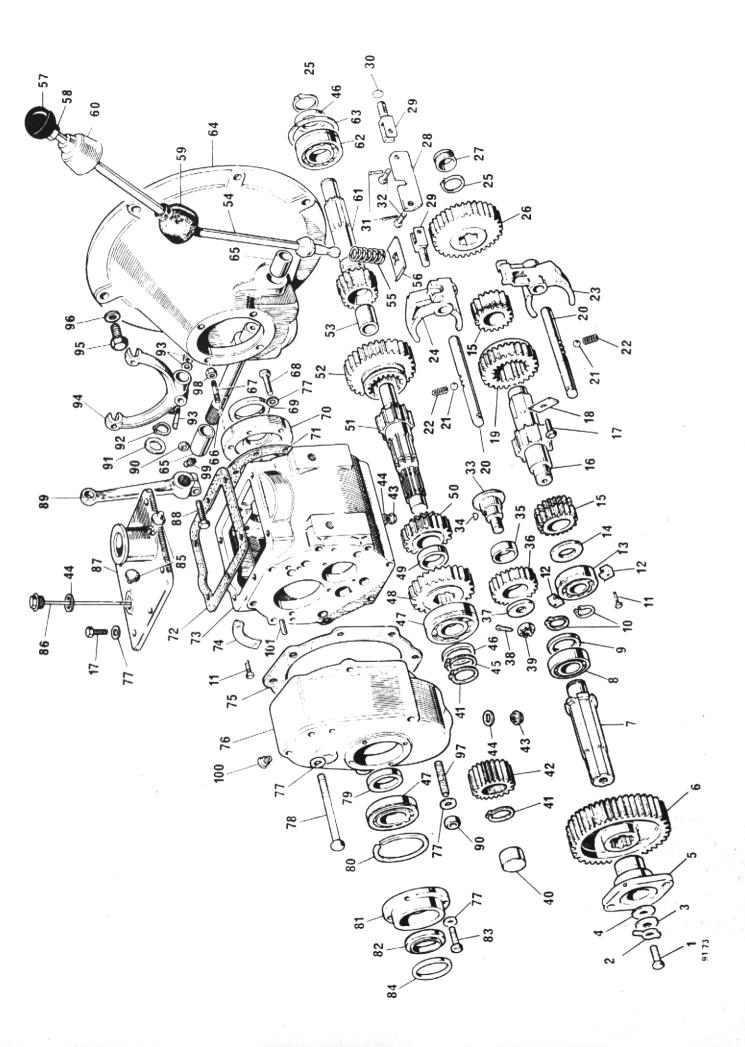
DUMP SKIP AND OPERATING GEAR

Item No.	Part No.	Description	No. Off
1	5S/101	Skip	1
2	F.526	Skip Catch Hook	. 1
3	5S/112	Catch Gate	1
4	F.528	Catch Handle	1
5	C.172	Handle Grip	1
6	C.140/A	Skip Catch Tube	2
7	L.255	Skip Stub Chain	2
8	L.256/B	Skip Stub Spring	2
9	L.275	Skip Catch Bracket	2
10	L.303	Skip Stub Spring Boss	2
.11	C.173/B	Spring	3
12	T/S	Grease Nipple	2

FLYWHEEL AND CLUTCH ASSEMBLY



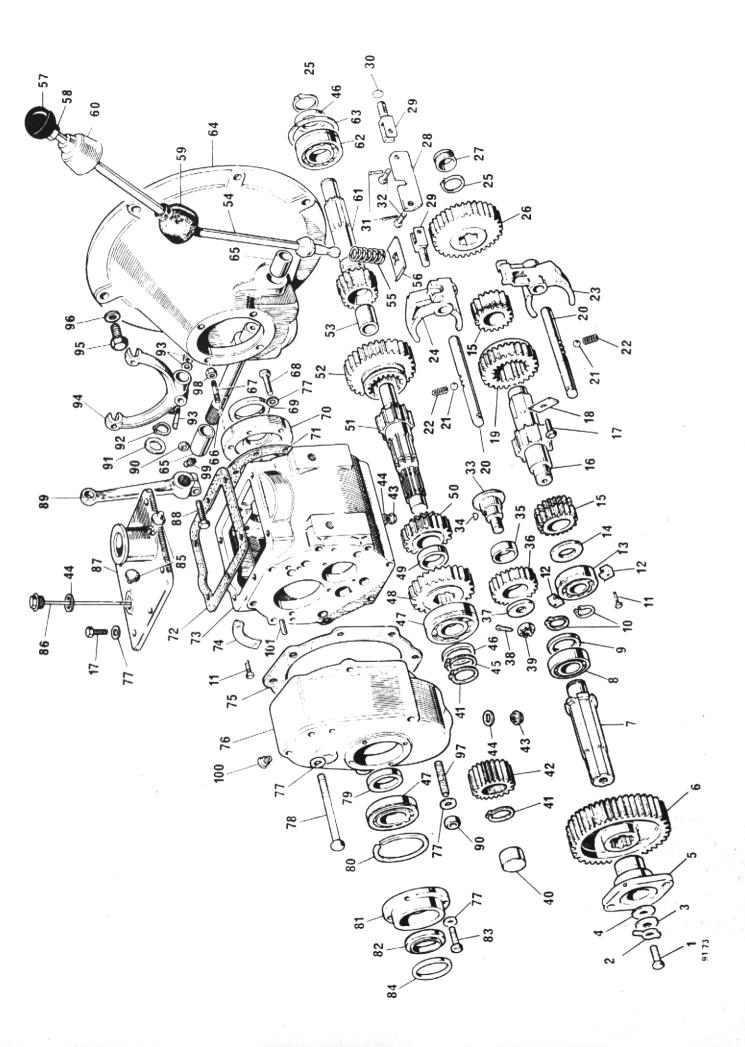
It is recommended that instead of drilling the head of the bolts (item 9) for locking wire that one of each of tabwashers part no's 10531A02 and 10531A03 are used to prevent the bolts working loose.



GEARBOX 40M/83E

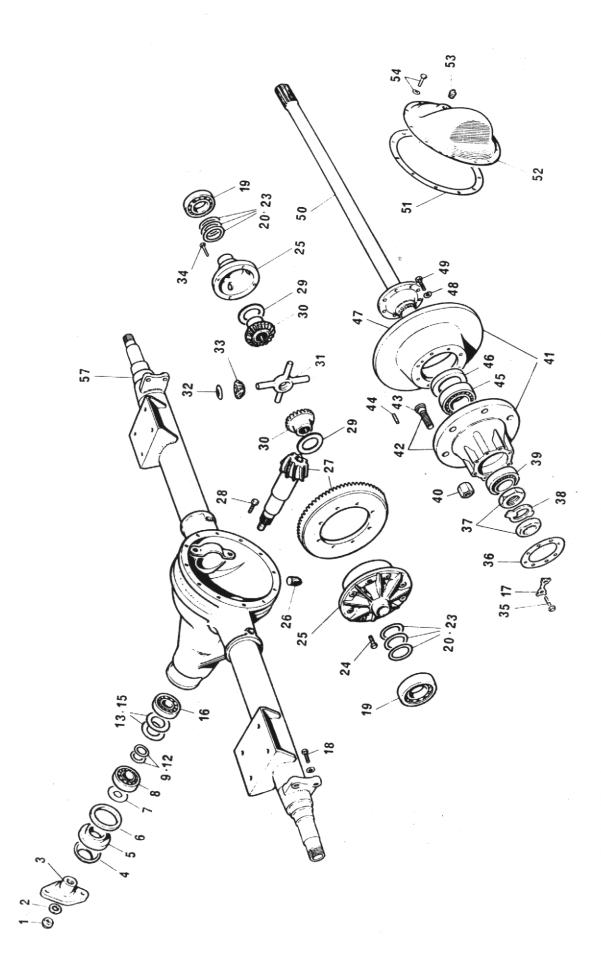
		(50)		
Item No.	Part No.		Description	No. Off
1	USF55		Screw, Coupling	1
2	CM2050		Lockwasher	1
3	CM2123		Washer, Coupling	1
4	40M/340		Washer, Fibre	
5	40M/383			
6			Flange, Drive (Type 70) 9/16" Bolts	1
7	40M/314		Gear, Driven	1
	40M/313		Shaft, Output	1
8	40M/327		Bearing	1
9	40M/325		Spacer Bearing	1
10	40M/148		Circlip	2
11	USF11		Screw, Bearing Retaining	3
12	40M/299		Clip, Layshaft Bearing	2
13	40M/146		Bearing, Rear Layshaft	1
14	40M/130		Spacer, Bearing	1
15	40M/114		Gear, Reverse Speed	2
16	40M/118		Layshaft	1
17	USF21		Screw, Top Cover and Lock Strip	13
18	40M/136		Strip, Locking (Selector)	
19	40M/116		Gear, Second Speed Sliding	1
20	40M/135			1
21	CP1077		Shaft, Selector	2
22			Ball, Detent CM2051 up to Serial No. 4615	2
	CM2103		Spring, Detent	2
23	40M/501		Fork, Selector (First and Reverse) 40M/228 up to	
~ ~	1011/202		Serial No. 4615	1
24	40M/502		Fork, Selector (Second and Third) 40M/229 up to	
			Serial No. 4615	1
25	CM2053		Circlip, Primary Shaft	3
26	40M/360		Gear, First Reduction	1
27	40M/162		Bush, Layshaft	1
28	40M/505		Plate, Interlock 40M/227 up to Serial No. 4615	1
29	40M/231		Stud, Interlock	
30	CM2113		Disc, Sealing	2 3 2 2
31	40M/244		Split Pin, Interlock	2
32	40M/232		Clevis Pin, Interlock	2
33	40M/119		Shaft, Reverse Pinion	1
34	40M/222		Key, Reverse Pinion Shaft	1
35	40M/161		Bush, Reverse Pinion	1
36	40M/111		Pinion, Reverse	1
37	40M/155		Washer, Reverse Pinion Shaft	1
38	CP1004		Pin, Split	1
39	UN507		Nut, Reverse Spindle	
40	40M/346		Roller, Needle	1
41	40M/347		Circlip	1
42	40M/349			2
43	CP1002	3	Gear, Drive	1
			Plug, Drain	2
44	CP1068		Washer, Drain Plugs and Dipstick	3
45	40M/348		Circlip	1
46	40M/174		Spacer, Bearing	2
47	CM2052		Bearing, Rear Mainshaft	2
48	40M/110		Gear, Output	1
49	40M/128		Spacer, Output Shaft	1
50	40M/113		Gear, Second Speed	- 1
51	40M/516		Shaft, Main 40M/345 up to Serial No. 5415	1
52	40M/115		Gear, First Speed	1
53	40M/513		Bush, Primary Shaft	1
54	40M/384		Lever, Gear	1
55	40M/367		Spring, Gear Lever	1
56	40M/245		Plate, Gear Lever Retaining	1
57	40M/133		Knob, Gear Lever	1
58	UN512		Nut, Gear Lever	1

1



GEARBOX 40M/83E Cont'd.

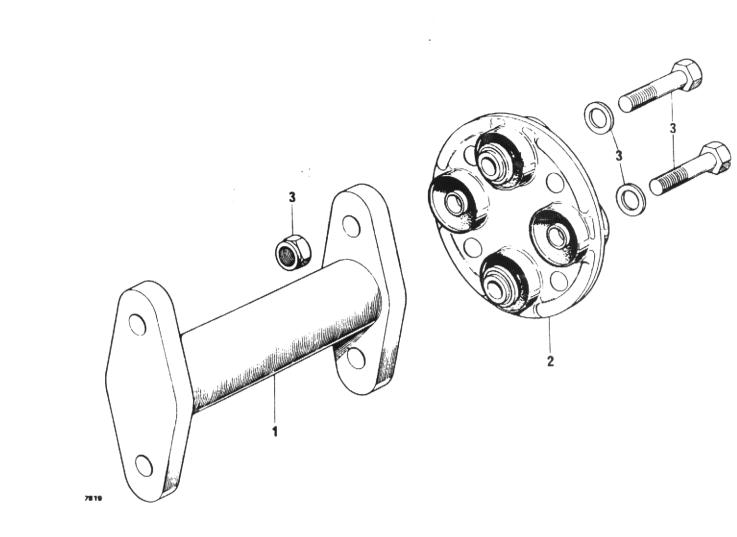
Item No.	Part No.	Description	No. Off
59	40M/129	Cover Gear Lever	1
60	4014/377	Cover, Protective	1
61	40M/117	Shaft, Primary	1
62	40M/143	Bearing, Input	1
63	40M/252	Ring, Snap	1
64	40M/392	Housing, Clutch	1
65	CM2179	Bush, Clutch Cross Shaft	2
66	40M/394	Cross Shaft, Clutch	1
67	40M/177	Stud	6
68	UBF71	Bolt, Front Cover	4
69	40M/150	Oil Seal, Input	1
70	40M/126	Cover, Front	1
71	40M/172	Joint, Front Cover	1
72	40M/169	Joint, Top Cover	1
73	40M/101/H	Casing, Gearbox	1
74	40M/141A	Retainer, Large Bearing	1
75	40M/626	Joint, Reduction Housing	1
76	40M/312	Housing, Reduction	1
77	W104	Washer, Front Cover, Top Cover Lock Strip	
.,	W 104	and Reduction Housing	25
78	UBF191		
79	40M/320	Bolt, Reduction	4
80		Spacer, Output Shaft	1
	CM2060	Retainer, Bearing	1
81	40M/622	Housing, Rear Oil Seal	1
82	40M/167	Oil Seal, Rear	1
83	USF31	Screw, Reduction Housing	8
84	CM2201	Excluder, Dust	2
85	40M/254	Pin, Gear Lever	2
86	40M/153	Dipstick	1
87	40M/220	Cover, Gearbox	1
88	UBF91	Bolt, Clutch Lever	1
89	CM2090	Lever Clutch Release	1
90	UN501	Nut, Clutch and Reduction Housing	3
91	40M/398	Washer, Cross Shaft	1
92	CP1006	Circlip, Cross Shaft	1
93	CM2084/SA	Cotter, Nut and Washer	1
94	CM2083	Fork, Clutch Release	1
95		Bolt 3/8" B.S.F. x 1" Long (PH2) 3/8" UNC x	
		1" Long (SR2)	6
96		Spring Washer 3/8" Dia.	6
97	40M/329	Stud	2
98	UNL106 *	Nut, Clutch Housing	6
99	CP1069	Nipple, Grease (Straight)	1
100	CM2106	Breather	1
101	40M/359	Dowel	1



DRIVE AXLE 10HA-001-35

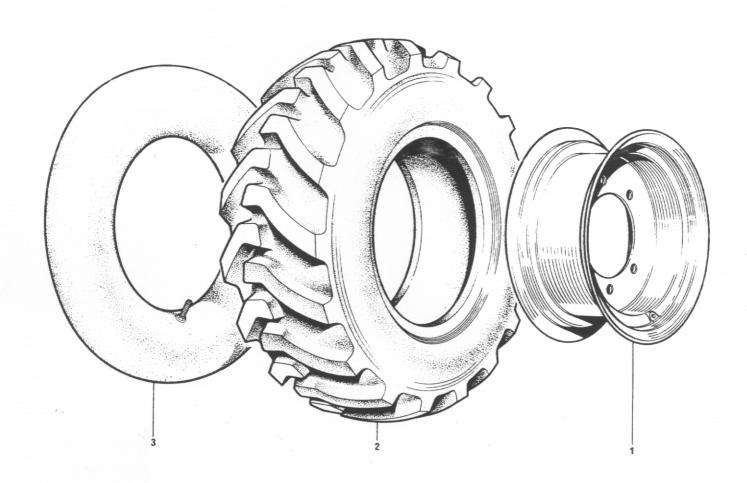
Item No.	Part No.	Description	No. Off
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\\26\\27\\28\\29\\30\\31\\32\\33\\4\\35\\36\\37\\38\end{array} $	14LN NF 10A 14W-24 10HA-083-12 10HA-021-3 8HA-019-3 2HA-020 10HA-036 10HA-022 5HA-039 5HA-040 5HA-041 5HA-042 10HA-043 10HA-043 10HA-043 10HA-043 10HA-045 10HA-023 7LW-13 7BNF-22B 8HA0242 8HA-046 8HA-046 8HA-047 8HA-048 8HA-048 8HA-049 8HA-049 8HA-049 8HA-049 8HA-059 21092X 8B NC 36 8HA 038 30788 8HA-012-1 30842 8HA-008-1 30836 7B-NC 20A 10HA-031 32N-NF-4 8HA-091-2	Pinion Nut Pinion Nut Washer Companion Flange (Type 70.4 5/16" Ctrs). Companion Flange Dust Shield Pinion Oil Seal Pinion Oil Seal Gasket Pinion Oil Seal Gasket Pinion Oil Seal Gasket Pinion Adjusting Outer Pinion Adjusting Shim Outer (.003 in.) Pinion Adjusting Shim Outer (.005 in.) Pinion Adjusting Shim Outer (.003 in.) Pinion Adjusting Shim Inner (.003 in.) Pinion Adjusting Shim Inner (.005 in.) Pinion Adjusting Shim Inner (.005 in.) Pinion Adjusting Shim Inner (.005 in.) Pinion Adjusting Shim Inner (.010 in.) Pinion Bearing Inner Axle Shaft Flange Lock-Washer Brake Caliper Mounting Bolt Differential Bearing Shim (.003 in.) Differential Bearing Shim (.003 in.) Differential Bearing Shim (.010 in.) Differential Bearing Shim (.030 in.) Differential Bearing Shim (.030 in.) Differential Case Drain Plug Drive Gear Screw Differential Case Side Gear Thrustwasher Differential Side Gear Differential Side Gear Differential Side Gear Differential Side Gear Differential Side Gear Differential Side Gear Differential Case Screw Axle Shaft Flange Driving Bolt Axle Shaft Flange Driving Bolt	1 1 1 1 1 1 2 A/R A/R 2 A/R A/R A/R A/R A/R A/R A/R A/R
33 34 35 36	8HA-008-1 30836 7B-NC 20A 10HA-031	Pinion Mate Differential Case Screw Axle Shaft Flange Driving Bolt Axle Shaft Flange Gasket	4 8 16 2
		Wheel Bearing Locknut Wheel Bearing Locking Washer Wheel Bearing Outer Wheel Nut Hub and Disc Assembly Wheel Hub with Studs	4 2 12 2 2
43 44 45 46 47 48 49	10HA-005 6D-16 8HA-025-5 5HA-032-6 10HA-136 6WL-105 6BNF-21	Wheel Stud Brake Disc Dowel Wheel Bearing Inner Hub Oil Seal Brake Disc Brake Disc Retaining Washer	12 4 2 2 2 10
49 50 51 52 53 54	6BNF-21 10HA-005-5 31978 8HA010-9 HA-059 6B-NC10	Brake Disc Retaining Screw Axle Shaft Gear Carrier Cover Gasket Gear Carrier Cover Filler Plug Cover Screw and Washer	10 2 1 1 2 10 2 2 4
57	10HA-082-3	Differential Case Assembly	4 4 1

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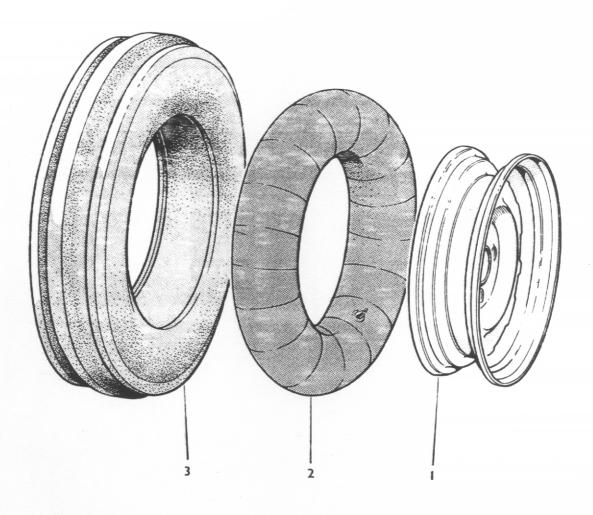
PROPSHAFT

Item No.	Part No.	Description	Qty.
	T470	Prop shaft assembly	1
1	5ST470	Prop shaft tube	1
2 3	10323A01 10203A	Coupling Coupling bolt, washer and nut (9/16")	2 8



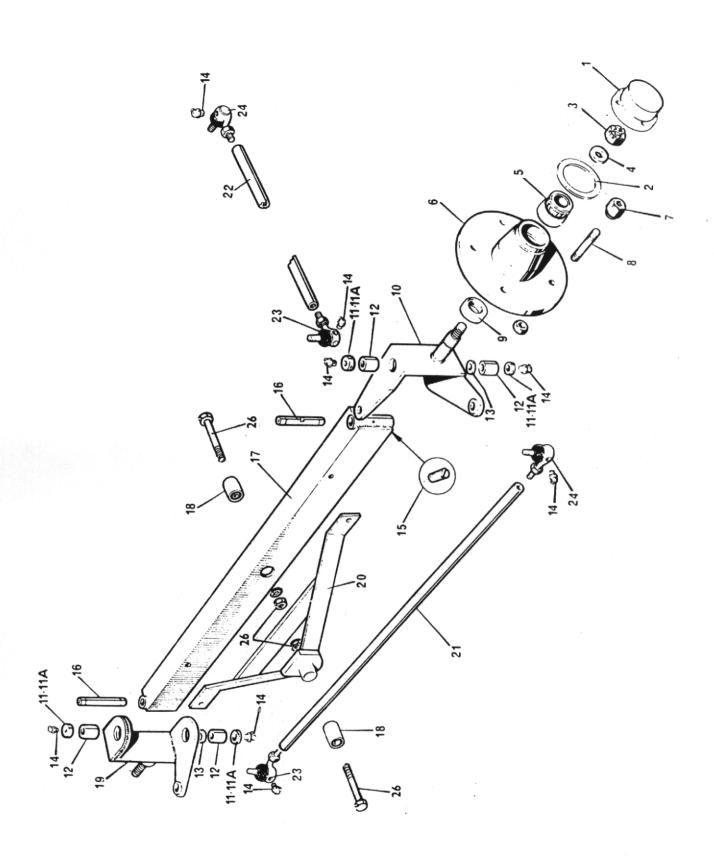
DRIVE WHEELS AND TYRES

Item No.	Part No.	Description	Qty.
1 2 3	24S16 24S15 30193A01 20S01 23S04	R/H Wheel Assembly L/H Wheel Assembly Wheel rim 9 x 18 Tyre 10.5 x 18-6 ply Tube 10.5 x 18	1 1 2 2 2



STEERING WHEELS AND TYRES

Item No.	Part No.	Description	Qty.
	24S31	Steering wheel complete	2
1	30033A01	Wheel rim 4.00 x 16	2
2	23S02	Tube 6.00 x 16	2
3	21S03	Tyre 6.00 x 16-4 ply	2



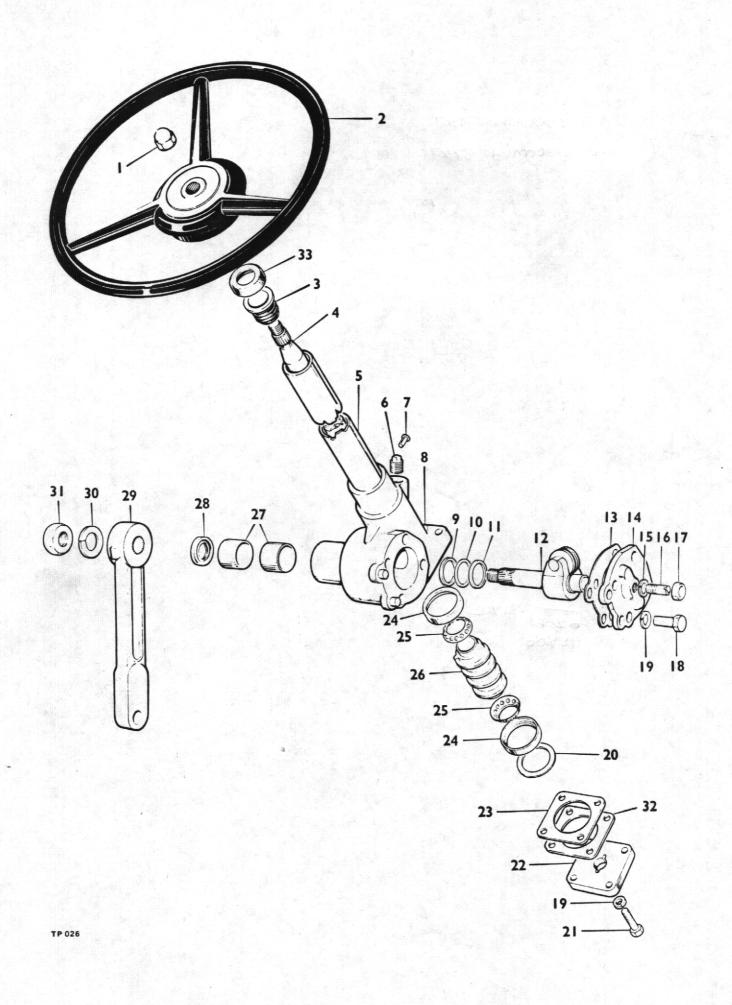
STEERING AXLE

Item No.	Part No.	Description	-	No. Off
1	R344	Hub Cap		
2	R345	Gasket, Hub Cap		2
3	R305-A	Slotted Nut.		2
4	4S149	Washer		2 2 2 4
5	K18690-K18620	Bearing, Hub		2
6	0190	Hub Assembly, including Items 1, 2, 5, 7, 82, 9		
7	R340	Wheel Nut		2
8	0190-S	Wheel Stud		10
9	R343	Oil Seal, Hub Bearing		10
10	F505-OS	Stub Axle Assembly O/S		2
11	C180-A	Washer, King Pin (Felt)		1
11A	C180-B	Washer, King Pin (Steel)		4
12	C190	Bush, King Pin		4
13	C175	Thrust Washer		4
14	T90	Grease Nipple		2 8 2
15	C111-A	Screw, King Pin Retaining		8
16	R320	King Pin		2
17	T 17	Steering Axle Beam		2
18	E2245	Bush, Steering Axle and Stabiliser		1
19	F505-NS	Stub Axle Assembly N/S		2
20	L262	Steering Axle Stabiliser		-
21	5ST 31	Track Rod		1
22	T32	Drag Link		1
23	C159/LH	Steering Ball Joint with Nut		2
24	C159/RH	Steering Ball Joint with Nut		2 2
				2

26

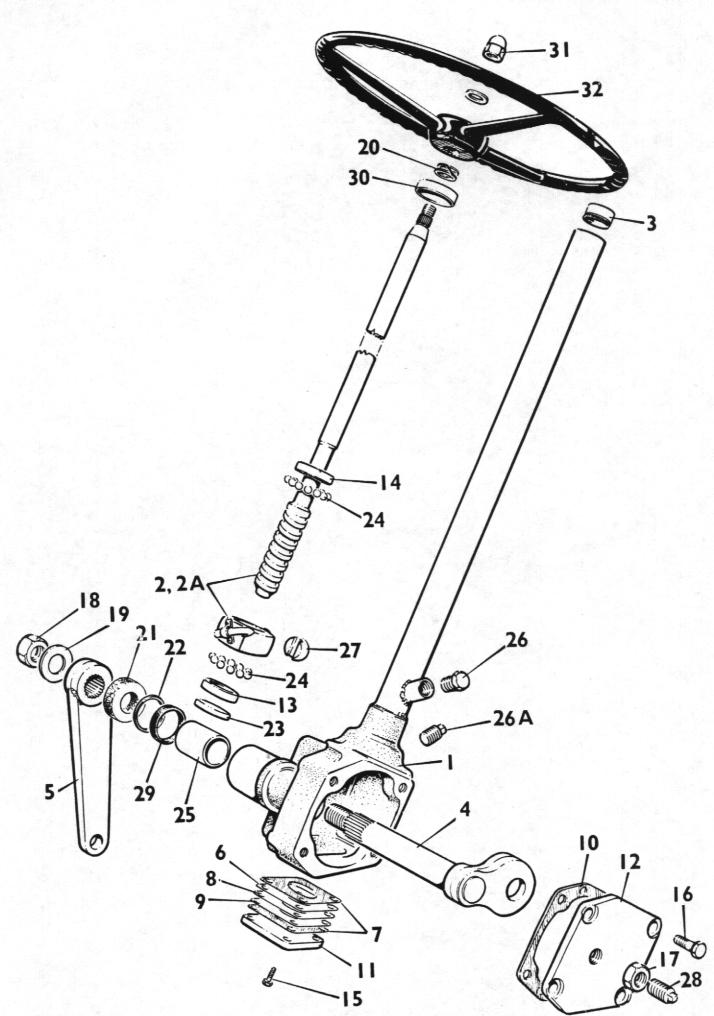
Bolt, 7/8" UNF x 4" Long & Nut

2



STEERING GEAR (CAM AND ROLLER TYPE)

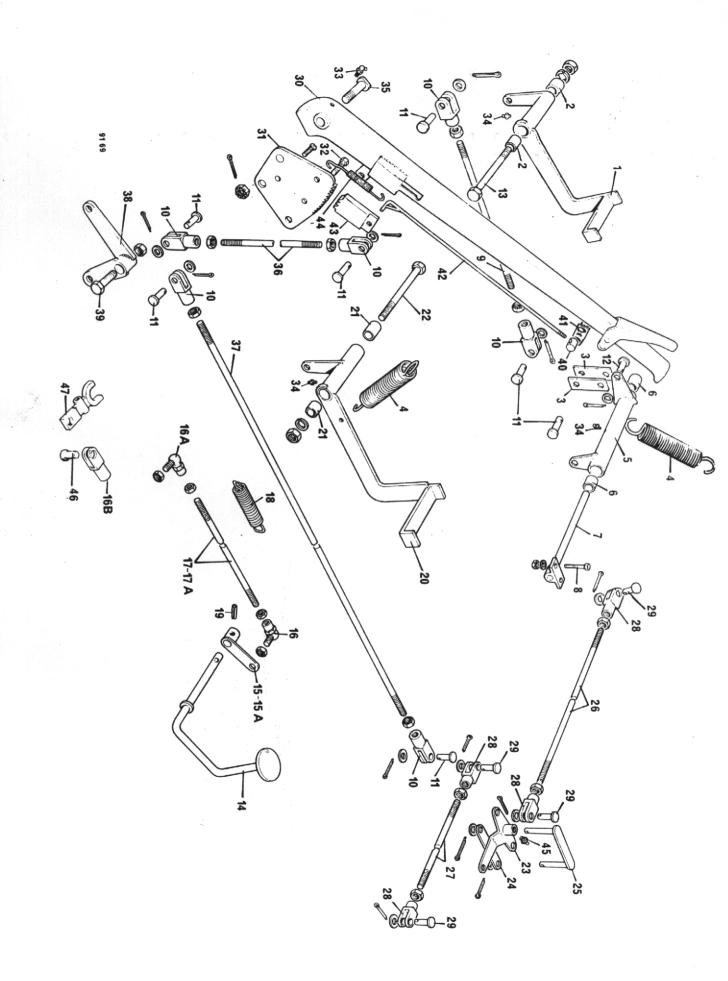
Item No.	Part No. 😑	Description 🚽	Qty.
	MGA 34849	Steering column assy. complete less items, 1,2 & 29 .	1
1	C 304	Steering wheel nut	1
2	347 K	Steering wheel	1
3	PA3904A	Column top bush	1
4	P5244/30"	Inner shaft	1
5	P3911/24"	Outer tube	1
6	S 9033	Oil plug	1
7	S 9166	Pin	1
8	PA4426	Steering box c/w item 14	1
9	P4151	Thrust washer	2
10	P 3308	Shim	A/R
11	P 4150	Thrust washer	2
12	PA5229/4¼"	Rocker shaft c/w roller	1
13	P3306A	Cover plate gasket	A/R
14	QA757	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	
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	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



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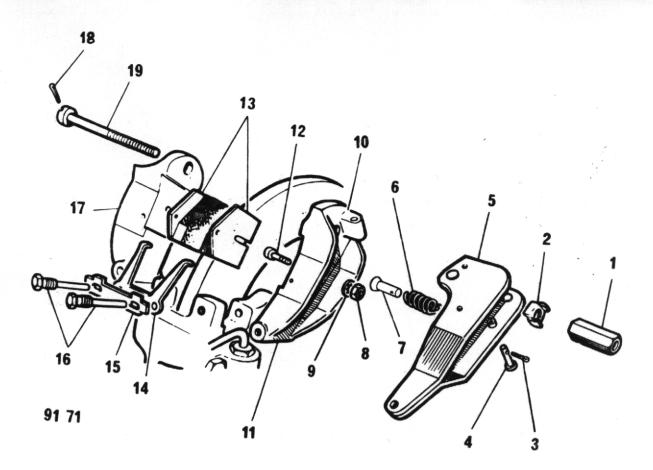
STEERING GEAR (RECIRCULATING BALL TYPE)

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	1
4	S-7-103	Rocker shaft	1
5	2SE90	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	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	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	O 1 1 1	54
25	19-9-17	Rocker shaft bush	1
26	21-8-4		1
26A	21-7-2		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	11-7-45	n .	1
32	347K a	그 15월 20일 전에서 이번 명령 이야지 않는 것이 같은 것이 같은 것이 같이 다니지 않는 것이 가지 않는 것이 없는 것이 없다. 것이 같은 것이 없는 것이 없다. 것이 없는 것이 없다. 것이 없는 않은 않은 않은 않은 것이 없는 것 않이	1



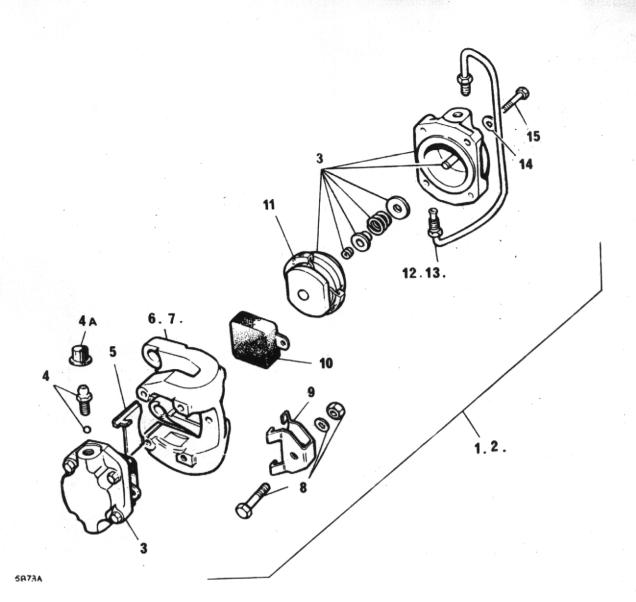
CLUTCH, HANDBRAKE AND FOOTBRAKE ASSEMBLY

Item No.	Part No.		Description		No. Of
1	5ST 13		Pedal, Clutch		1
2	WB1010		Bush, Clutch Pedal		2
3	F537		Link, Clutch Lever		2
4	C173 B		Spring, Return (Clutch and Footbrake Pedal)		2
- 5	F519		Lever, Clutch Transfer		1
6	WB0808		Bush, Transfer Lever (Clutch)		2
7	F519A		Rod, Clutch Transfer Lever		1
8	1010/1		Nut and Bolt, 3/8" BSF x 1.1/4" Long		1
9	5ST21A		Rod, Clutch Adjusting 3/8" x 1' - 0.1/2"		1
10	C174 A		Clevis		6
11	C174 X		Clevis Pin		7
12	5ST 101		Clevis Pin		1
13	551 101		Nut and Bolt 5/8" BSF x 4.1/2" Long		1
14	5ST 30		Pedal, Accelerator		1
			Lever, Accelerator (Petter PH2)		1
15	F522 5ST 102		Lever Accelerator (Lister S.R.2)		. 1
15A			Ball End, Accelerator Rod (Petter P.H.2)		2
16	C160 B		Ball End, Accelerator Rod (Lister S.R.2)		1
16A	C160 B		그 같은 것 같아요. 전 것 같은 것 같아요. 것 같아요. 같아요. 그 것 같아요. 그 집에 집에 집에 집에 있는 것 같아요. 그는 것 같아요. 그는 것 같아요. 그는 것 같아요. 그는 것 같아요. 그 그 같아요. 그 그 같아요. 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그		1
16B	C174 D		Fork End (Lister S.R.2)		1
17	5ST 22		Rod, Accelerator 1/4" dia. x 6.1/4" (Petter P.H.2)	~	1
17A	5ST 103		Rod, Accelerator (Lister S.R.2) 1/4" dia. x 1' - 2.3/4		1
18	C173 D		Spring, Return (Accelerator Rod)		1
19	C129 A		Pin, Tension		4
20	5ST 12		Pedal, Footbrake		2
21	WB1212	6.1	Bush, Footbrake Pedal		1
22			Nut and Bolt, 3/4" BSF x 8" Long		
23	5ST 76		Arm, Compensator Lever		1
24	C189 A		Link, Compensator		1
25	C271		Compensator Link Assembly		1
26	5ST20 A		Rod, Brake 1/4" dia. x 2' - 10.1/2"		. 1
27	5ST20 B		Rod, Handbrake 1/4" dia. x 12"		1
28	C174 C		Fork End		4
29	C174 Y		Clevis Pin		4
30	F517		Handbrake Lever Complete		
31	F517 A		Quadrant, Handbrake Lever		1
32			Bolt, 5/16" BSF x 1" Long		2
33	Т/90		Nipple, Grease (90°)		1
34	T/ST		Nipple, Grease (Straight)		3
35	F517 B		Bolt, Handbrake Carrier		1
36	5ST21 C		Rod, Lever Connecting 3/8" dia. x 9"		.1
37	5ST21 B		Rod, Handbrake 3/8" dia. x 5' - 1"		1
38	LT292		Lever, Handbrake Transfer		1
39			Nut and Bolt, 5/8" BSF x 3.1/4" Long		1
40	000022/A		Pin, Latch Pivot Arm		1
41	14425 A		Arm, Latch Pivot		1
42	10291C		Rod, Handbrake Rod		1
43	6266A		Pawl, Handbrake Pawl		1
44	12873 A		Spring, Handbrake		1
45	5ST 100		Grease Nipple		1
46	C174 Y		Clevis Pin (Lister S.R.2)		1
47	CT 194		Accelerator Lever (Lister S.R.2)		1



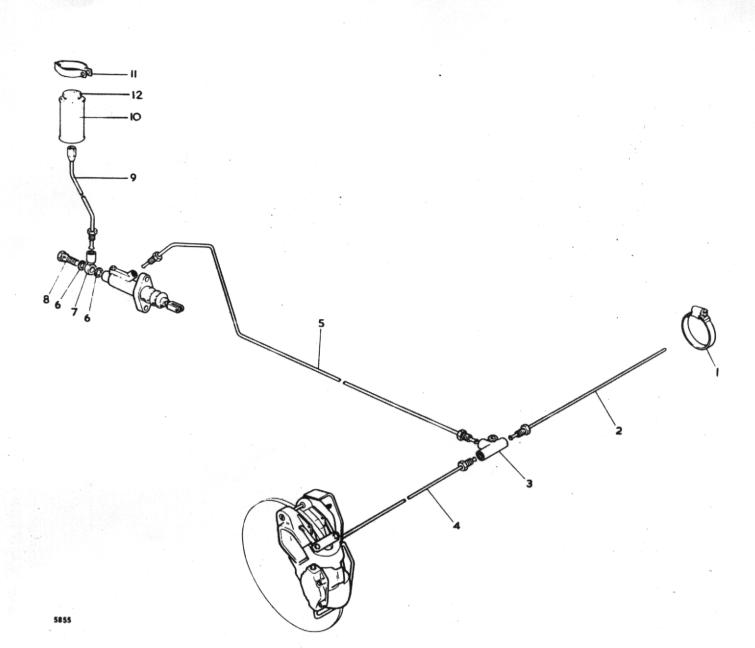
HANDBRAKE ASSEMBLY

ltem No.	Part No.	Description	No. Off
1	CB20258	Nut, Adjustment	2
2	VB08307	Spring, Friction	2
3	VBO6135D	Split Pin	2
4	VB08315	Pin, Hinge	2
5	CB20526	Lever Assembly	2
6	VB07329	Spring, Return	2
7	VB07330	Spring Anchor	2
8	VBO6050	Nut 2BA	4
9	VBO6101F	Washer	4
10	VBO8308	Pivot Seat	2
11	CB60249/8308	Carrier Pad Assembly/Inner c/w Pivot Seat	2
12	VBC4124	Bolt	4
13	CB20311/Y	Friction Pad (4 per set)	1 set
14	VBM4635/1	Plate, Retraction	2
15	VBO4226	Washer, Tab	2
16	VBO4190	Bolt	4
17	VBM4573	Carrier Pad (Outer)	2
18	VBO6158/G	Split Pin	2
19	CB20289	Bolt	2
	CB90256	H/B Right Complete	1
	CB90257	H/B Left Complete	1



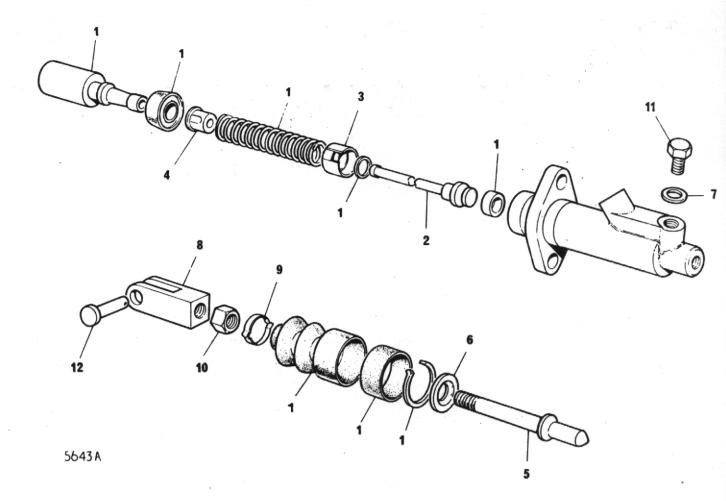
CALIPER ASSEMBLY

No	Part No.	Description	No. Off
1			1
2		성장 : 2019년 - 11월 11일 - 11일	1
3			4
4	VB08378	Bleed Screw and Ball Assembly	2
4 A	CB0849	^a Dust Cover (Bleedscrew)	2
5	VB05133	Plate, Support	· 4
6	CB60253	Body, Caliper (RH)	1
7	CB60252	Body, Caliper (LH)	1
8	VB08491	Nut, Bolt and Washer (Keep Plate)	2
9	VB05123	Keep Plate	2
0	VB08360Y	Friction Pad Complete (Set of 4)	1
1	VB08210A	Seal Kit (Dust and Piston)	4
12	VB03927	Bridge Pipe Assembly (RH)	1
13	VBO3926	Bridge Pipe Assembly (LH)	. 1
14	VB0610L	Washer, Shakeproof	16
15	VB05100	Bolt, Retaining (Cylinder)	16
	4 4A 5 6 7 8 9 0 1 1 2 13 14	1CB902622CB902633VB055054VB083784ACB08495VB051336CB602537CB602528VB084919VB051230VB08360Y1VB08210A2VB039273VB0610L	1CB90262Caliper Assembly Complete (LH)2CB90263Caliper Assembly Complete (RH)3VB05505Piston and Cylinder Assembly4VB08378Bleed Screw and Ball Assembly4ACB0849Dust Cover (Bleedscrew)5VB05133Plate, Support6CB60253Body, Caliper (RH)7CB60252Body, Caliper (LH)8VB08491Nut, Bolt and Washer (Keep Plate)9VB05123Keep Plate10VB08360YFriction Pad Complete (Set of 4)11VB08210ASeal Kit (Dust and Piston)12VB03927Bridge Pipe Assembly (RH)13VB0610LWasher, Shakeproof



HYDRAULIC BRAKE SYSTEM

Item No.	Part No.	Description	No. Off
1	4/350 S	Hose Clip	
2	64474422	Pipe (45")	4
3	64474341	Tee Piece	1
4	64473383	Pipe (21")	1
5	64475767	Pipe (81")	1
6	378700	Washer	1
7	64474291	Banjo	2
8	64473063	Banjo Bolt	· 1
9	3424240W	Pipe (21") 7/BUNF + 3/BUNF MALE	· · · · ·
10	64046158	Header Tank c/w Cap.	1
11	6447 7544	Clip	1
12	64474602	Сар	1



MASTER CYLINDER

Item No.	Part No.	Description	No. Off
	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	351257W	Push Rod	1
6	378242	Retaining Washer	1
7	378700	Washer	1
8	64671286	Clevis	1
9	378312	Dust Cover Retainer	1
10	64100052	Lock Nut	1
11	64110348	Plug	1
12	C 174 Y	Clevis Pin	1

Inches				Milli-				
Fractions Decimals			metres	Fractions Decimals			- Milli- metres	
1/64				0.397	33/64 -		0.515625	13.097
	1/32 —			0.794		17/32	0.53125	13.494
3/64				1.191	35/64		0.546875	13.891
		1/16 —	0.0625	1.588	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	9/1	6 - 0.5625	14.288
5/64			0.078125	1.984	37/64 -		0.578125	14.684
			0.09375	2.381		19/32	0.59375	15.081
7/64			0.109375	2.778	39/64 -		0.609375	15.478
		1/8 -	0.125	3.175		5/8	0.625	15.875
9/64			0.140625	3.572	41/64 -		- 0.640625	16.272
	5/32 -			3.969		21/32	0.65625	16.669
11/64	T BERLEY		0.171875	4.366	43/64 -		0.671875	17.066
		3/16 -	0.1875	4.763	Sec. Sec. 1	11/1	6-0.6875	17.463
13/64			0.203125	5.159	45/64 -		0.703125	17.859
	7/32			5.556	1.48.000	23/32	0.71875	18.256
15/64			0.234375	5.953	47/64 -		0.734375	18.653
		1/4 -	0.250	6.350		3/4	- 0 750	19.050
17/64			0.265625	6.747	49/64 -		0.765625	19.447
	9/32			7.144		25/32		19.844
9/64 -			0.296875	7.541	51/64 -		0.796875	20.241
		5/16 -	0.3125	7.938		13/1	6-0.8125	20.638
21/64 -			0.328125	8.334	53/64 -		0.828125	21.034
	11/32			8.731		27/32		21.431
23/64			0.359375	9,128	55/64 -			21.828
		3/8 -	0.375	9.525		7/8	0.875	22.225
25/64 -			0.390625	9.922	57/64 -		0.890625	22.622
	13/32 -			10.319		29/32		23.019
27/64 -				10.716	59/64 -		0.921875	23.416
		7/16 -	이 맛 알 것을 잘 못 못 봐요. 전 것을 많은 것 같아?	11.113				23.813
29/64 -				11.509	61/64 -	15/1	0.953125	24.209
	15/32 -			11.906		31/32		24.606
31/64 -				12.303	63/64 -			25.003
		1/2 -		12,700			1.000	25.400

DECIMAL, FRACTIONAL AND METRIC EQUIVALENTS

INCHES INTO MILLIMETRES

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

Use in conjunction with above table.

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

5/8" = 15.875 mm.

84 5/8" = 2149.475 mm.

CALIFORNIA

Proposition 65 Warning

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