

# OPERATION, MAINTENANCE & SPARE PARTS MANUAL

# 7/200 THH MIXER

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This manual is a reprint of the Winget publication No S98 last printed during March 1981 and is a direct copy of one of the remaining original manuals.

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### INTRODUCTION

The operating instructions and maintenance recommendations contained in this book will enable you to become familiar with your mixer to obtain the best results in the shortest possible time.

The life and trouble free running of your machine will depend largely on the care it receives. It is your responsibility to ensure that the maintenance instructions outlined in this book are carried out.

When replacements are required, it is essential that only genuine parts are used and that any repair or servicing work is carried out by competent mechanics.

### WINGET LTD.

### **GUARANTEE**

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As every reasonable care is taken that goods of this Company's manufacture shall be free from defect in material and workmanship, the Company will supply free to any destination in the British Isles named in the tender or F.C.B. British Ports in the case of goods situated abroad, any part or parts which, under normal service, appears to the Company's satisfaction to have been at the time of delivery defect in such parts, provided it is notified thereof within 12 months or 2,000 working hours from the date of delivery (whichever shall be the earlier) or, where the Company is responsible for erection, within twelve months from the date on which the customer is notified that any plant or machinery is ready for starting up provided that:-

- a) Written notice is given to the Company within seven days of the discovery of the defect.
- b) Unless otherwise agreed, the alleged defective part or parts are returned to the Company's Works, carriage=paid and its inspection establishes the claim. Replaced parts shall become the property of the Company.
- c) No part which is not of the Company's manufacture has been fitted, otherwise than by it or on its behalf, or with its written approval.
- d) No unauthorised alteration or modification has been made to the machine or component the subject of the claim.

In no cases shall the Company be responsible for the cost of fitting replacement parts.

Machines parts or components sold by the Company but not of its manufacture are subject only to such warranty (whether expressed or implied by law) as is given by the makers thereof and are not covered by this Guarantee. The Company will as far as is practicable make available to the purchaser the benefit of any warranty given to the Company by the makers of such machines or components.

This Guarantee and/or warranty is personal to the Company's customer and may not be asigned.

Any other warranty or condition expressed or implied by law and whether statutory or otherwise is hereby excluded as is also any claim based on any verbal or other representation or conditions made in relation to any goods the subject of any offer or tender submitted by the Company unless confirmed in writing by a Divisional Director or the Secretary of the Company.

Save as aforesaid the Company shall not be responsible for any loss or injury or damage however caused or arising.

This guarantee is extracted from the Company's standard conditions of sale.

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## **Description & Operation**

#### INSTALLING YOUR MIXER ON THE SITE (Fig. 1)

Ensure that the mixer is sited on firm ground and standing level in both directions. If the ground is loose or made up, it is recommended that the mixer be stood on stout timbers.

If pneumatic roadwheels are fitted, place a stout timber under each pair of stabilizing jacks, attached to the front and rear axles, lower the stabilizing jacks until they come firmly into contact with the timber, lock in position. Screw the two stabilizer bolts down on to the front axle and chock the wheels firmly in position. Extend the outrigger arm, if fitted, and secure in position. Remove and stow the towing bar, replacing the drop end pin in the steering bracket. Release the hopper safety prop. This is done by turning the engine by hand with the hopper control lever held in the 'raise' position until the weight of the hopper is taken off the prop. Turn retaining latch upwards and swing the prop downwards into its lowest position. Hold the hopper control in the 'lower' position and allow the hopper to come down under its own weight. If a batch weigher is fitted, ensure at least 2" (50 mm) clearance between the base of the hopper and the ground to ensure accurate readings to be obtained.

#### TRANSPORTING THE MIXER

To reduce the overall height of the mixer, it is possible to remove the loading hopper from its cradle.

#### REMOVING THE HOPPER

Under certain circumstances it may be desirable to remove the hopper. This is readily affected by removing the eight bolts attaching the hopper to the cradle. Alternatively, it might be desired that the hopper be removed with the cradle still attached. In this case the hopper pivot shaft and the two upper ram yoke pins should be removed allowing the hopper and cradle to be detached. It is advisable to replace the hopper pivot shaft in the cradle and the ram yoke pins in the yoke to avoid loss in transit.

#### LIFTING THE MIXER

Lifting eyes are provided for using crane hooks when loading for transporting. They are located, one on the left-hand side of the hopper cradle, when looking at the machine from the hopper side, the second one at the top of the trunnion pedestal next to the engine housing. Lifting the mixer should be carried out with the hopper up, or if the hopper has been removed for transporting, with the cradle in the UP position.

#### DRUM CONTROLS

Any of three pre-set positions CHARGE - MIX - DISCHARGE can be obtained. It is possible to alter the MIX position for a wet or dry mix, by removing the two set bolts holding the adjustable locking flange (Fig. 1) and moving it through half a turn, then replacing the set bolts.

#### TILTING WHEEL LOCK

A push-pull type locking mechanism located in the hub of the tilting handwheel gives positive locking in any of the three pre-set positions. To release the handwheel, simply pull the locking plunger outwards. To lock the handwheel, move the drum into the position you require, line up the pointer at the edge of the tilting wheel with the fixed pointer bolted to the tilting wheel guard, and

#### push the locking plunger in.

WARNING: Do not hold the locking plunger in and turn the handwheel to engage the lock, this will cause damage to the locking mechanism.

#### HOPPER OPERATION

#### CONTROL

The hydraulic control value for operating the hopper is mounted on the trunnion pedestal near to the tilting handwheel.

#### TO RAISE HOPPER

Lift the control lever and hold it until the hopper is fully up. Do not hold the control in the RAISE position with the hopper up for more than a few moments or overheating and loss of efficiency will result.

#### TO LOWER HOPPER

Push the control lever downwards; releasing the lever will check the descent of the hopper as necessary.

#### WATER TANK (Fig. 2)

Amounts of water, from 1.1/2 to 8 gallons (7 to 36 litres) can be automatically measured. The amount of water to be discharged is selected by setting the pointer on a graduated scale mounted on the side of the tank. Remember to release and re-tighten the clamp nut holding the pointer each time the pointer is moved. Filling and discharging of the tank is automatic. When the drum is moved into the CHARGE position, it opens through a spring tensioned linkage the discharge valve in the tank, which allows the water to flow into the drum. Then, when the drum is moved into the MIX position the tank refills automatically.

#### FILLING THE TANK

With the drum in the MIX or DISCHARGE position the sequence of filling the tank is as follows:-

The float arm 'A' rests on the bottom of the float chamber and holds the trip lever 'B' against the pilot valve 'P' to hold it open against the action of the spring 'S'. Water enters the tank at 'C' and lifts the diaphragm 'D' off its seat allowing water to flow into the tank. It also passes through a supply bleed hole and past the pilot valve to enter the tank.

Incoming water passes down the transfer pipes 'E' and fills the airtight chamber 'F' until the water covers the end of the air pipe 'G' when this happens no further water is admitted to the air tight chamber, instead the transfer pipes and float chamber flood until the float rises and allows the trip lever 'B' to disengage from the float cam 'R' allowing the pilot valve 'P' to close, assisted by the action of the spring 'S'. Pressure increases on the upper side of diaphragm 'D' causing it to reseat, shutting off the incoming water supply.

#### DISCHARGING TANK

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When the mixing drum is moved into the CHARGE position the rod 'H' is pulled downwards, this, through the linkage, causes the discharge valve 'J' to lift off its seat discharging the contents of the tank.

The float cam 'R' is also moved by the linkage away from the trip lever 'B' allowing the float to drop into the bottom of the chamber when the water is discharged. When the drum is moved into the MIX position, the rod 'H' is lifted by the return spring 'K'. The discharge valve 'J' is closed, the float cam 'R' moves into contact with the trip lever 'B' which opens the pilot valve 'P' to start filling tank again.

#### DRAINING THE TANK

During periods of frosty weather, to avoid damage, it is advisable to drain the tank at the end of each day's working. To do this set the drum in the CHARGE position and drain the water into the drum, then disconnect the water supply to the mixer. Finally empty the water from the drum.

#### BATCH WEIGHER (if fitted)

The weigher gauge mounted in a box on the tilt end pedestal is connected by hydraulic piping to the loadcell mounted near the hopper lower pivot arm. The hydraulic circuit is primed and sealed on leaving the works and on no account should it be tampered with.

The gauge calibrated from 0-1,100 lb. (500 Kgs.) gives accurate indication of batch weights. The adjustable coloured pointers mounted on the rim of the gauge can be set by the operator to the aggregate proportions required. A protective lid is provided for the gauge box to prevent damage when not in use.

It is important that the mixer is standing firm and level and that there is at least 2" (50 mm) clearance between the ground and the base of the hopper at all times. If aggregate is allowed to build up inaccurate gauge readings will be obtained.

#### NORMAL OPERATION

Set the pointers on the gauge to the aggregate proportions you require. With the engine running lower the hopper slowly on to the loadcell. Hold the hopper control lever fully down for a few seconds until the gauge needle begins to move up to zero then release. The hopper is then ready to load. If you cannot get a zero reading adjust the gauge as described in the following paragraph:-

#### TO ZERO THE WEIGHING GAUGE

With the mixer engine running carry out the following:-

- (a) Lower the hopper on to the loadcell as described.
- (b) Check that the hopper is clear of the ground.
- (c) Taking care not to stand on any part of the hopper, adjust the knurled knob on the side of the gauge to set the point to zero.
- (d) Repeat, lowering the hopper three to four times to check that you obtain a consistent zero reading.

#### HOIST WINCH (if fitted)

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The hoist winch is situated at the engine end of the machine and is designed to hoist loads of 10 cwt. (500 Kilos) this is sufficient to raise one complete mix of 7 cu. ft.  $(0.2m^3)$  of concrete.

#### CONTROLS

To hoist, the outboard hand lever (that nearest the road wheel) is pulled upwards, this releases the brake and engages the clutch.

To lower, the inboard hand lever is eased upwards to release the brake.

The load can be arrested in any position during the raising and lowering operations simply by releasing the appropriate hand lever.

#### CONTROLS SETTING

To ensure complete safety the brake and clutch settings should be checked at regular intervals and adjusted when necessary.

#### REFER TO SECTION K1

First check that with the brake applied, the height of the spring stack, Ref. 35, is 2.1/8" (55 mm). If necessary adjust by means of nut and locknut on Ref. 36.

Now, if necessary, adjust the clutch for wear. This is carried out by removing the fixing screw and releasing the locknut for Ref. 43 at the hand lever end. Screw Ref 43 int: Ref. 46 so that the brake band is just eased off when the clutch is fully engaged.

When the brake and clutch are correctly adjusted a raised load should not fall during movement of clutch lever.

#### BEFORE STARTING UP

Read carefully the Engine Manufacturer's Handbook supplied with this mixer. Check the amount of fuel in tank and the level of lubricating oil in engine sump.

With the hopper down check the level of oil in header tank. A combined filler cap and dipstick is provided.

Set the pointer on the water tank to the amount required for the first mix. With the drum in the MIX or DISCHARGE position, connect the mains supply to the tank, and it will automatically fill.

#### TO MIX CONCRETE

Set the coloured points on the weigher gauge (if fitted) to the aggregate proportions you require and load hopper.

Move the drum into the CHARGE position. The water will automatically start discharging at the same time, raise the hopper to tip the aggregate into the drum. When all the materials are in the drum, lower the hopper and load for next batch, and set drum in the MIX position.

After allowing a short interval for mixing, the concrete in the drum should discharge.

- (a) Thoroughly clean out the drum with water and gravel.
- (b) Clean out the hopper and wash down the outside of the mixer.
- (c) Drain water tank if frost is likely.
- (d) Raise hopper, place safety prop in position and lock.
- (e) Stop engine.
- (f) Grease up machine for next day's working.
- (g) Replace cover on weigher gauge box.
- (h) Lock engine housing to prevent tampering and loss of tools.

#### LUBRICATION

#### GENERAL

All shafts and bearings needing daily attention are lubricated through drilled shafts and special greaseways by fitting grease nipples. The lubrication diagram (Fig. 3) will give the location of these grease nipples, which should be greased daily, using a grease gun charged with a good quality medium grease (Shell Alvania RA).

It is essential that Operator's do not allow grease or oil used for servicing to become contaminated with sand or cement dust. Apply a little engine oil from time to time on pin joints on water tank controls, track rods on steering assembly and hinges on housings etc. Bearings must not be allowed to run dry; when greasing it is better to give a little often rather than a lot at long intervals.

#### TRANSMISSION

Lubricate the main bevel pinion drive chain and the pump drive chain once a week with a little engine oil. Check chain tension and adjust if necessary as described below.

#### CHAIN TENSIONING

On no account must chains be over-tightened, undue tightness puts excessive strains on pump and engine bearings causing vibration and considerable wear. A very rough guide to chain tension is to allow the equivalent amount of one chain pitch free movement on the slack side of the chain, i.e. 3/4" (19 mm) chain pitch - 3/4" (19 mm) slack etc.

#### WATER TANK SETTING

- Lower edge of outer end of operating lever to be 1" (25 mm) above top edge of tank body when locknut 'L' on operating link 'M' seats on underside of angle bracket.
- With outlet valve 'J' on seat, stiffnut on valve rod to be 1/8" (3.2 mm) clear of operating pin as shown.

3) With pilot value on seat and trip lever in contact with it, clearance between trip lever and stop pin to be  $1/32^{n}$  (0.79 mm).

#### HYDRAULIC SYSTEM

#### HEADER TANK

This is mounted inside the drive end trunnion pedestal, easily accessible through the door in the pedestal.

The oil in the system is continually passed through a filter mounted in the tank, it also serves as a filling filter. It should be removed for cleaning and in-spection every three months (600 hours running), this can be carried out without draining the tank and is described fully on this page.

Check the level of the oil weekly (50 hours running) with the hopper down and engine stopped. A combined filler cap and dipstick is provided for this purpose, but remember to clean the area around the cap before removing it, to prevent dirt falling into the tank.

#### RECOMMENDED OILS

Top up the system as necessary using an oil of the correct grade, do not mix different brands of oil. The approximate capacity of the system is three gallons and it is filled with Shell Rotells 10 at the works, the particular grade of oil being shown on a label attached to the top of the tank. Generally, if a diesel engine is fitted, any lubricating oil suitable for this, is suitable for the hydraulic system, in case of doubt use:-

SAE 10 oil for temperatures up to 60°F (16°C)

SAE 20 oil for temperatures between 60°F and 90°F. (16°C, 33°C).

SAE 30 oil for temperatures above 90°F. (33°C)

FILTER REMOVAL (See Spares Group E2)

This is done with the hopper down and the engine stopped as follows:-

- (a) Thoroughly clean the top of the tank and remove the combined filler cap and dipstick and bonded seal.
- (b) Unscrew the three set bolts securing the filter carrier cap taking care not to lose the sealing washers.
- (c) Remove the cap and gasket and lift out the compression spring and finally the filter. Cover the opening with a clean rag while the filter is out.
- (d) Thoroughly clean the filter in petrol only, and air dry thoroughly before re-assembly.
- (e) Replace filter, spring, gasket and cap in that order. Tighten cap fixing bolts, not forgetting to replace the sealing washers.
- (f) Top tank up with oil if necessary and replace dipstick and bonded seal.

#### DISMANTLING THE SYSTEM

Do not remove or expose any part of the internal hydraulic gear in the event of breakdown, unless so instructed, as this may lead to further complications when correcting the fault. Remember you have a WINGET SERVICE DEPOT near you which is always ready to assist.

#### BATCH WEIGHER (if fitted)

Include the four grease nipples on the upper hopper pivot links in your daily servicing.

To allow accurate functioning, keep the mechanism as clean as possible, special attention being paid to the lower link pivot. Clean the ground under the hopper frequently to avoid any build up of aggregate.

NOTE: On no account must the loadcell be disconnected from the weighing dial. No responsibility will be accepted by us, if the lead seals attached to the pipe unions are broken.

#### TYRE PRESSURES (if pneumatics fitted)

These should be checked at regular intervals and before transportation from site to site. Recommend tyre pressures 45 p.s.i. all round.

#### GENERAL MAINTENANCE

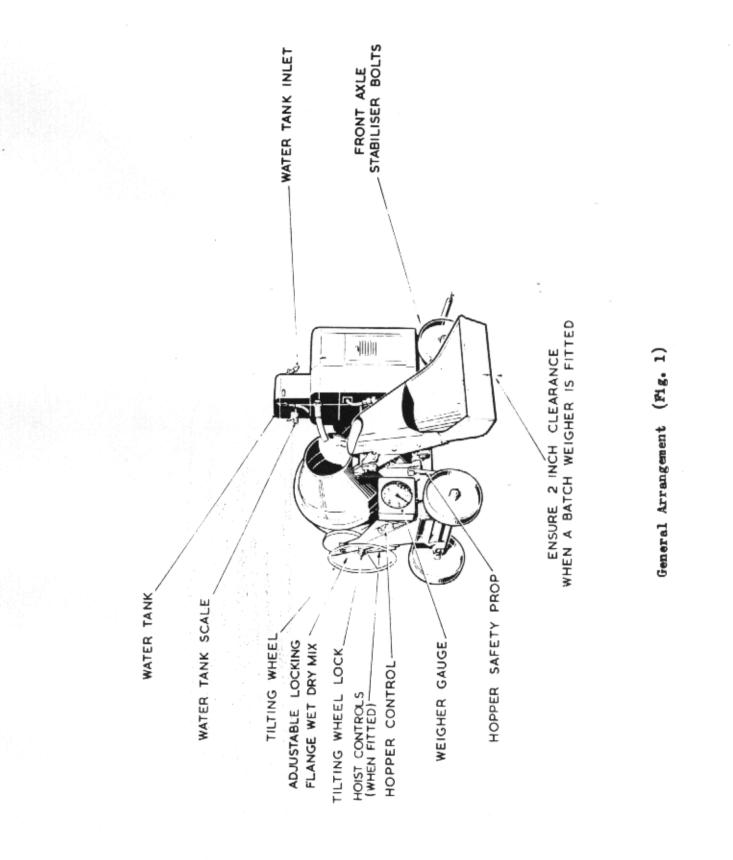
Check for tighteness from time to time, all bolts, nuts, keys, etc. especially during the first few weeks of operation. Pay particular attention to engine fixing bolts. Clean top of header tank before removing filler cap. Add oil of recommended grade. Drain water tank during frosty weather.

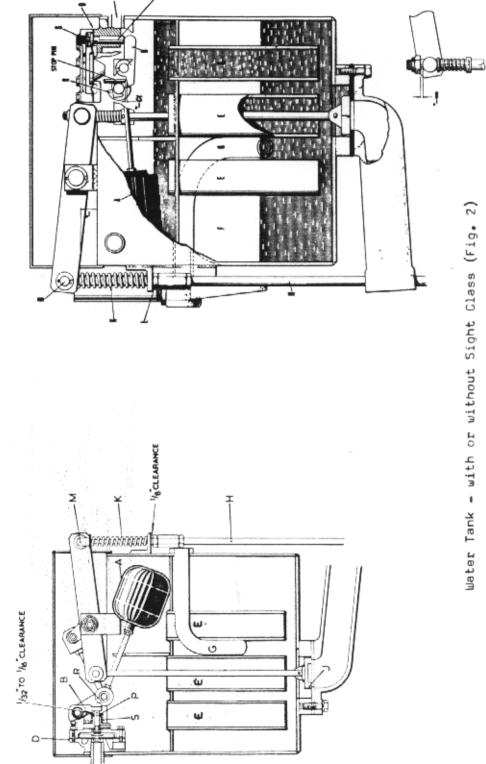
When not in use, keep weigher gauge box lid on, and engine housing locked to prevent tampering and loss of tools.

#### SERVICING SCHEDULE

	DAILY
Mixer	Lubricate daily through grease nipples using a good quality medium grease. Shell Alvania RA is used at Works. (See lubrication diagram). Thoroughly clean out drum, when mixing is finished, with water and gravel. Wash out hopper, and hose down mixer. Keep access doors and panels closed. If frost is likely, drain water tank.
Hoist Winch	Check brake and clutch for adjustment
Engine Sump Lubrication Fuel Tank	See Engine Handbook
	. WEEKLY
All Drive Chains	Lubricate chains with engine oil. Check tension and adjust if required
Hydraulic Header Tank	Clean top of tank. Check level and top up as neces- sary. Do not mix different brands of oil. Check with hopper down and engine stopped
General	Apply a little engine oil to all joints on water tank controls, track rods and hinges on housings etc.
	THREE MONTHLY
Hydraulic Header Tank Fitter	Remove, clean and inspect

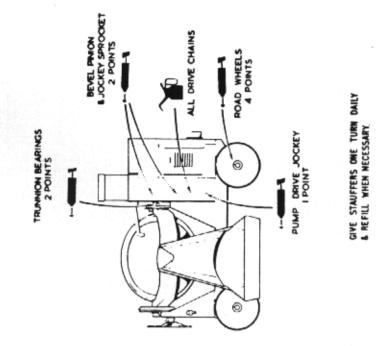
NOTE: CHECK ENGINE MANUFACTURER'S HANDBOOK FOR ROUTINE MAINTENANCE INFORMATION

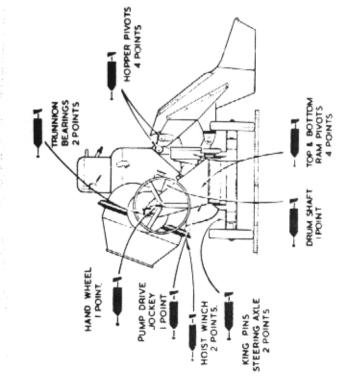




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Water Tank - with or without Sight Class (Fig. 2)





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Lubrication Diagrams (Fig. 3)

### **Spares**

Please note that a number of components are described as being c/w screws, nuts and washers, this is no longer the case and all fixings should be ordered separately if required. Imperial fixings may no longer be available and the nearest metric equivalent will be supplied.

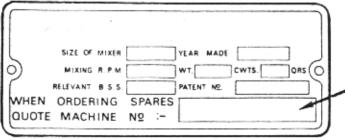
#### TO FIND A SPARE PART

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The assemblies have been divided into groups and given identification letters A, B, C, etc. To identify a component, first find the relevant assembly in the list given on next page, this will give you a group letter to turn to. On turning to this group the illustrations will enable you to identify the part you require and give you a reference number. Against this number in the Parts List will be found the DESCRIPTION and PART NUMBER information which we require.

To avoid delays and errors, remember always to quote THE MACHINE NUMBER, which will be found stamped on a plate at the side of the machine.

### Don't risk delays and errors remember ALWAYS QUOTE THE SERIAL NUMBER OF THE MACHINE AND THE ENGINE NUMBER



## SPARES GROUPS

A.1.	Mainframe Assembly
B.1.	Portability Assembly
C.1.	Drum and Trunnion Assembly
D.1.	Tilting Gear Assembly
E.1.	Pump Fixing and Jockey Assembly
E.2. & E.6.	Hydraulics Assembly
E.3.	Weston Ram Assembly
E.4. & E.5.	Ganus Ram Assembly
F.1.	Hopper and Cradle Assembly
G.1.	Weigher Assembly
H.1.	Water Tank Assembly (for tanks without sight glass)
H.2.	Water Tank Float Valve Details (for tanks without sight glass)
н.3.	Water Tank Controls Assembly (for tanks with or without sight glass)
H.4.	Water Tank Float_Valve Details (for tanks with sight glass)
н.5.	Water Tank Assembly (for tanks with sight glass)
J.1.	Lister S.T.1. Drive Assembly
J.2.	Petter P.H.1. Drive Assembly
J.3.	Lister 5.T.2. Drive Assembly
K.1.	Mechanical Hoist Assembly
L.1.	Guards Assembly Lister S.T.1.
L.2.	Guards Assembly Petter P.H.1.
L.3.	Guards Assembly Lister 5.R.2. (for hoist machines only)
	Fastenings (Nuts, bolts, washers, etc.)
NOTE: Fast	Wiring Diagram tenings in List of Parts are given identification Nos. ith letter 'Y'. To obtain Part Nos. for these fasten-

ings, section 'Y' at the back of this manual should be referred to.

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		- 2 3 <b>4</b> 5						H/ a													MAIN FRAME ASSEMBLY			
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Part No	503 0532 00		502 8673 00		503 0546 00	503 0549 00		503 0525 00		503 0526 00		513 2899 00				502 8672 00		00 000	7000	513 2900 00				
Description	Trunnion Pedestal (Tilt End) Complete with Y26. Y114.	Y227 & Y252 Truncion Dedaetal Guard		Complete with Y79 & Y224 Trunnion Pedestal Door			Complete with Y/9 & YZ24 Trunnion Pedestal		Complete with Y26, Y114, Y227 & Y252		Complete with Y26, Y114,		Trunnion Padestal Lower	Guard (Urive End) Complete with Y11, Y112,	Y224 & Y250	Trunnion Pedestal Lower Cuerd (Tilt Fod)	Complete with Y11, Y112,	Y224 & Y250	LITTING LYS	Load Cell Support Lug complete with Y22, Yll3, Y226				
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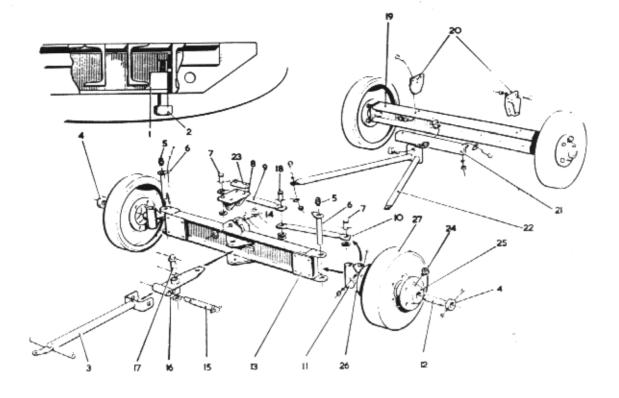
When Ordering :- Always Quote

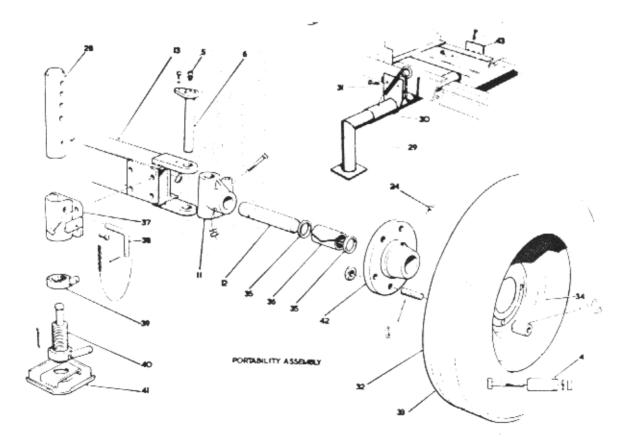
Machine No, Part No, Description and Quantity

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### Spares Publication NºS 98







When Ordering :- Machine No, Part No, Description and Quantity

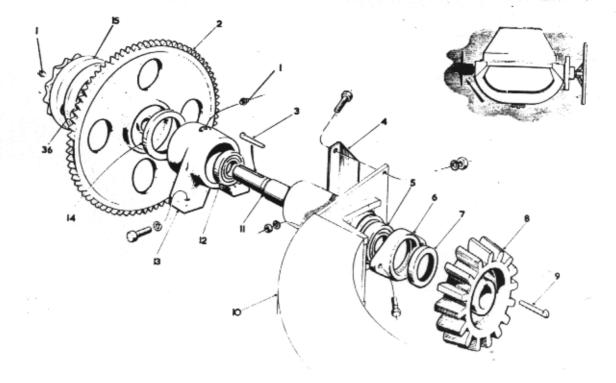
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Description	Pressed Steel Roadwheel	ete	Stabl	Complete with Y198	Outrigger Leg	Outrigger Support Tube		Locking Pin with Dog Chain	Tyre	Tube	Wheel with Nut and Locknut	Distance Washer	Bearing	Stabilizer Bracket	Complete with Y20, Y113 & Y132	Locking Pin	Locking Nut	Lifting Screw	Complete with Y243 & Y265	Base for Stabilizer	Roller Bearing Hub Adaptor		Complete with Y23, Y113 & Y226	Wheel Stud	WHERE NOT			a				NOTE: ITEMS 25, 26 and 27 USED WITH	PRESSED STEEL ROAD WHEELS		28 to 44	WITH PNEUMATIC ROAD WHEELS		
Ref	27		28		29	5		31	32	55	45	35	36	37		38	39	40		41	42	43		44	v t	)						_,						
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Part N <sup>O</sup>		8181	7755	145 5040 00		333 1022 00	502 7761 00		502 7816 00		502 7801 00		7763	7762	502 7756 00		502 7757 00	502 7759 00	502 7813 00		502 7818 00	502 7799 00	502 7815 00		502 7817 00	~	502 7764 00		502 7821 00		502 7955 00		504 5495 00			00 0000 100	1423	
Description	Stabilizer Nut	Stabilizer Bolt	Towbar	Collar	Complete with Y17, Y112 & Y224	Nipple	King Pin	Complete with Y9 & Y224	Pin for Trackrod	Complete with Y258 & Y240	e Swivel B	Complete with Y21, Y113, Y226 & Y251	Offside Trackrod	Nearside Trackrod	Front Stub Axle	Complete with Y115, Y112 & Y224	Stub Axle Pin	Front Axle	Swivel Bracket Pin	Complete with Y242 & Y264	Towbar Pin	Steering Bracket	Steering Bracket Pin	Complete with Y241 & Y260		Complete with Y240 & Y258		Complete with Y38, Y119, Y137 & Y251		Complete with Y21, Y113 & Y226	Angle	Complete with Y21, Y113, Y226 & Y251		Y114 & Y133		SWIVEL BRECKET PECKING	Wheel Hub	Backing Plate
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When Ordering Always Quote

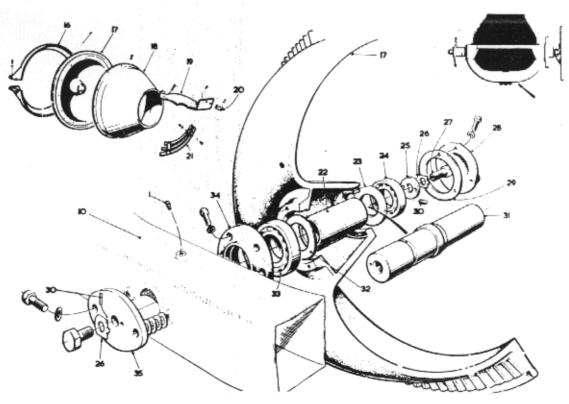
:- Machine Nº, Part Nº, Description and Quantity

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DRUM & TRUNNION ASSEMBLY



When Ordering :-Always Quote

Machine No, Part No, Description and Quantity

Description	Part No	Qty	Ref	Description	Part No	Qty	V
		+		-			S
		5	27	Speciel Bolt	502 7611 00	-	7
		-	28	Drum Base Cap	7608	-	
	7848	-		Complete with Y23 & Y238			1
OH-LOON)	301 1062 30	۴-	29	Drum Base Cap Gasket	502 8287 00	•	I
Key (Hois: Machines)			30				ł
Bevel Pinion Guard	501 2503 00	-	5	Drum Shaft	7607	4 -	
Bearing	102 2120 00	-		Complete with Y30		• •	3
Locking Cap	501 1021 00	-	32		502 7614 nn		e
Complete with Y13, Y112 & Y224		~	5	Bearino		- •	ł
	417 1324 40	•	PE	Rearing Can	0777	- •	t
Bevel Pinion (18TEET H)	1018	-	5	Complete with V156 & V22A		- 4	
Key	301 -1061 60	-	5	Flance for Drum Shart	500 7500 00	•	
Trunton	1183	-		Commiste with V28	200	- (	
Bevel Pinion Shaft		-					
Bearing	1120	-	36	Snima for Hoist Sprockst (Hoist			S
Trunnion Bearing Bavel Pinion End		-			E17 2E17 00		ir
		0					08
	417 1608 00	-				2	aı
Hoist Drive Surocket (Hoist							re
Machines only)	511 2307 DD	•		CHAN S/4 PIRM SO FORTH			9
Complete with V33 V118 ± V00A	1007			Fro CLAND		,	s
	0727	4 0		)	134106080	-	-
		7		50305y500		:	Pu
Complete with Y18, Y35, Y48 & Y83		~ ~		502784800			ıbl
2117		4					lic
Y224		80					at
Y118	~	2					tio
Drum Base	502 7568 00	-					n
Drum Top	502 7721 00	-		* *			N
Complete with Y84, Y113 & Y226		12					05
Drum Blade Lower	502 7728 00	2					59
Complete with Y84, Y113 & Y226		2					8
Drum Blade Cleat	502 7758 CO	64					a state of the
Complete with Y190, Y113 & Y226		œ.					
Skeleton Blade	502 4764 00	2					
Complete with Y190, Y113 & Y226		8					
Distance Tube	502 7613 00	ę					
Thrust Washer	7612	-					
Bearing	2180	-					
Retaining Washer	500 9280 00	-					
Tag Washer		2				17. 14	
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Machine Nº , Part Nº, Description and Quantity

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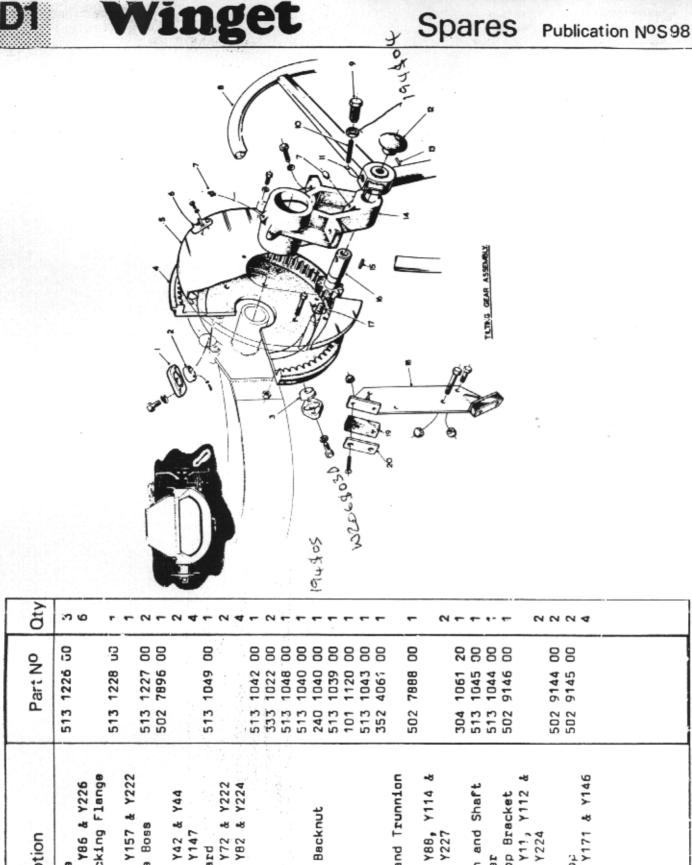
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Adjustable Locking Flange Complete with Y157 & Y222 Tilt Bracket and Trunnion Complete with Y171 & Y146 Complete with Y86 & Y226 Complete with Y72 & Y222 Tilting Pinion and Shaft Complete with Y88, Y114 Complete with Y11, Y112 Complete with Y42 & Y44 Tilt Wheel Stop Bracket Complete with Backnut Locking Flange Boss Description Tilt Wheel Guard Locking Plunger Willt Wheel Stop Locking Flange Special Screw Tilting Wheel Plunger Knob Compression Rubber Stop Steel Ball Hand Wheel Bearing Pointer Nipple 8083 P.I.n Key Ref . 2 5 4 S 112 15 17 17 18 9 ~ 8 6 22 20

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When Ordering :-Always Quote

Machine No, Part No, Description and Quantity

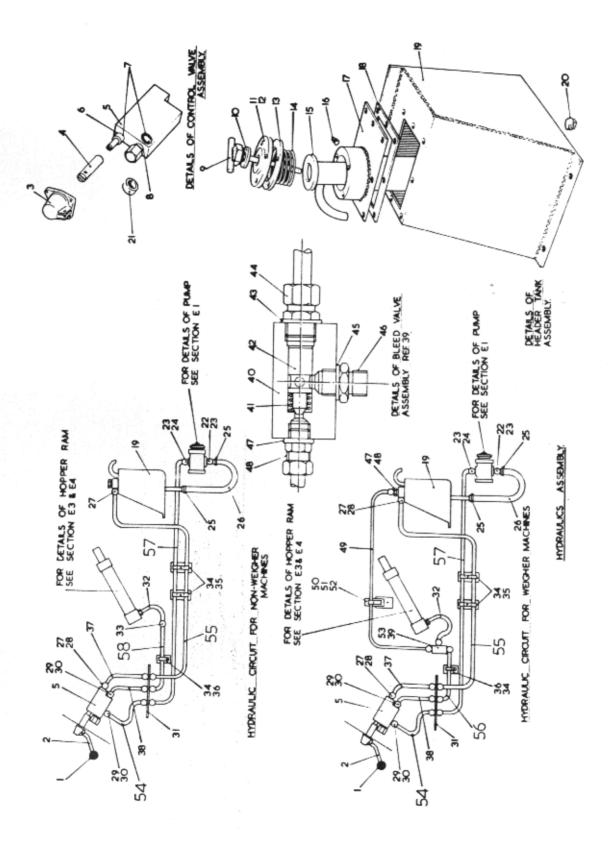
	Ŵ	'it	ıg	e	t				Sp	a	re	s	P	ublie	cati	on N	los	98		38
	-2			s tool To T		134 106 05 4 2 1 1 2	9 E			- Q 0	8					I S	PUMP FIXING & JOCKEY ASSEMBLY			
	Oty	1		4			-						-	2	-	1 SET			 	
	Part No	361 1350 00	513 2083 00	513 2084 00 513 2085 00	2086	134 1066 40 134 1066 20	1390	503 0861 00	503 0503 00 240 7010 00	1100	503 1970 00	241 9010 00 333 1022 00	0505		365 8230 04	365 8230 02				
	Description	Hydraulic Pump Complete with Y32, Y148 & Y237	Pump Bracket Complete with Y146, Y216 &		Retaining Washer Complete with Y136 & Y225 Chain from Vistor of 200	LR2 Drives) Chain (for Petter PH1 Drive)	Jockey Pin Complete with Y115, Y229 &	Y241 Jockey Sprocket Bush	Jockey Sprocket Elbow	Jockey Lubricator Extension	(for Hoist Machines)	Socket Nipple		1225	Hydraulic Pump Shaft Seal Hydraulic Pump Seal Kit	trate				
Ì	Ref	-	3	N 4	in v	0	~	æ	e 5	11		12	14		10				 	
			Pump Bracket Complete with	Specer Pump Sprocket									Jockey Bracket	Y225	Hydraulic Pump Hydraulic Pump	trate			 	

When Ordering :- Always Quote

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Machine No, Part No, Description and Quantity

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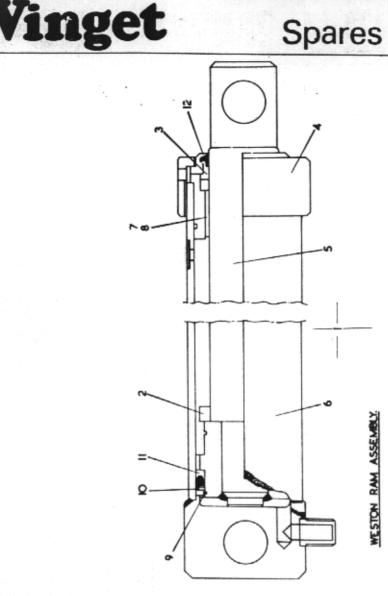
**E**2

Network     Description     Part No     Oth     Part No     Owe       1     Free     Consiste with Y3, Y135, X 723     307 1010 00     1     2     Consiste with Y3, Y135, X 723     307 1010 00     1     2     Consiste with Y3, Y135, X 723     307 1010 00     1     2     Consiste with Y3, Y135, X 723     307 1010 00     1     3     Poster Free Ling 10.00     2     2     Consiste with Y3, Y172,	L									
None     None <th< th=""><th>Re</th><th></th><th><u></u></th><th>art N<sup>o</sup></th><th>oty</th><th></th><th></th><th>Part No</th><th>0 t</th><th>V</th></th<>	Re		<u></u>	art N <sup>o</sup>	oty			Part No	0 t	V
Control Lever     Control	5	Koob	105	1010	+	-			i I	V
Constrait with Y3, Y145 A Y37     503 U454 U0     33 Fine C1P Block     513 195 00     1       Complete with Y3, Y145 A Y37     503 0493 00     1     35 Fine C1P Block     513 195 00     1       Complete with Y1, Y10 A Y37     503 0493 00     1     35 Fine C1P Block     503 093 00     203 195 00     203 195 00     203 195 00     203 195 00     203 195 00     203 195 00     203 195 00     203 195 00     203 195 00     201 10 10     203 195 00     203 195 00     203 195 00     203 195 00     201 10 10     203 195 00     201 10 10		1				20	nopper nam	4062	-	{
Complete with Y3, Y135 & Y337     503 0510 00     1     34     Clip for Return and Pressure Piles     503 053 00     3       Complete with Y3, Y112 & Y224     503 053 00     3     Clip for Return and Pressure Piles     503 053 00     3       Control lewer Bearin     Usive Life     5     503 053 00     3     Clip for Return and Pressure Piles     503 033 00     3       Control lewer Bearin     Usive Life     503 150     0     1     7     Versulte Pile     503 330 00     1     3     Complete with Y12, Y12, A     7224 30 00     1     3     Complete with Y12, Y12, A     723 300 00     1     3     Complete with Y12, Y12, A     723 300 00     1     3     Complete with Y12, Y12, A     723 300 00     1     3     Complete with Y12, Y12, A     723 300 00     1     3     Complete with Y12, Y12, A     723 300 00     1     3     7     3     Complete with Y12, Y12, A     723 300 00     1     1     7     3     2     2     2     2     2     2     2     2     2     2     2     2     2     <	4		505	0494	-	33		1195	-	
Control lavae tith Y1, Y110 & Y237     S03 G610 C00     1     35     Complete with Y1, Y110 & Y237     S03 G00 2     5       Control lavae tith Y1, Y110 & Y237     S03 G00 7     3     S01 G00 1     3     S03 G00 2     S03 G00 2 <td< td=""><td></td><td>Y3, Y145 &amp;</td><td></td><td></td><td>-</td><td>34</td><td>Pipe</td><td>52.00</td><td>٣</td><td>1</td></td<>		Y3, Y145 &			-	34	Pipe	52.00	٣	1
Complete with Yiz	<b>m</b>	Lever	503	0510	-	35	Clip for Return and	1024		1
Control Value Livk     503 0433 00     1     36     Cutic for Rem Steel Pipe     503 0433 00       Control Value Kino     Control Value Kino     Control Value Kino     513 2560 00     513 2560 00       Complete Kino     Control Value Kino     201 147 00     238 Hydrewille Pipe     513 2561 00     513 2561 00       Value Kino     Control Value Kino     217 7028 00     238 Hydrewille Pipe     503 0393 00     513 2561 00     513 2561 00     513 2561 00     513 2561 00     513 2561 00     512 757 75m 55m 55m 550 00     513 2550 00     512 757 75m 55m 55m 550 00     513 255 00 <td></td> <td>Y1, Y110 &amp;</td> <td></td> <td></td> <td>1</td> <td></td> <td>Complete with V12. V</td> <td></td> <td>4 0</td> <td></td>		Y1, Y110 &			1		Complete with V12. V		4 0	
Complete with YZ # Y45     Complete with YZ # Y45     Control for bit with YZ, Y11 & Y23     Control for with WZ, Y12     Control for with WZ, Y12<	4		503	1493	•	5	Clin for Dem Charl Ding			E
Control Value     Control Value     Control Value     Control Value     513 2560 00     1       Viprevalle Film     Viprevalle Film     Viprevalle Film     503 395 00     1       Viprevalle Film     Viprevalle Film     503 195 00     1     702 00     2     38     Viprevalle Film     503 395 00     1       Saal     Saal     417 702 00     2     400 100     1     447 300     1     402 400     1     402 400     1     402 400     1     402 400     1     402 400     1     402 400     1     402 400     1     402 400     1     402 400     1     402 400     1     402 400     1     402 400     1     402 400     1     402 400     1     402 400     1     402 400     1     402 400     1     402 400     1     403 400     1     1     100 500     1     402 400     1     1     100 500     1     402 400     1     1     100 500     1     402 400     1     1     100 500     1		V2 & V145			•	3	adia Tabas wey in dias	5520	-	3
Computer with Y5, Y111 & Y223 U20 T010 1 37 Wystewillt Pipe 513 2561 00 1   1 Viger Ring U20 T010 2 *41 7023 00 2 *41 7023 00 513 2561 00 1   1 Hadde Main Main Main 513 2561 00 1 437 7023 00 2 *41 7023 00 2 *41 7023 00 2 *41 7023 00 200	U		000		• •	1	WIEN Y12, Y112 &		-	(
Viewensetur   513   551   00   11     Viewensetur   117   7023   00   2   38   Witherwallt   513   551   00   11     Saal   531   530   055   00   1   447   503   139   00   11   443   503   139   00   11   443   503   139   00   139   503   139   00   139   503   139   00   147   773   00   2   440   503   139   00   147   773   00   147   773   00   147   777   00   2   445   500   10   147   773   00   147   777   00   3   445   600   00   147   777   00   3   445   600   00   170   100	n		070	1010	-	37		2580	-	2
Wilser (Ang)   417 7023 00   1   *39   Bleed Walve Answiby Complete   503 0393 00     Seal   2   20   637   9570 00   2   240   Compression Scring   501 1994 00     Seal   417 927 00   2   200 0550 00   1   428   800046 58al   501 1994 00   503 1995 00   501 1994 00   503 1995 00   501 1994 00   503 1995 00   501 1994 00   501 1994 00   501 1994 00   501 1994 00   501 1994 00   501 1994 00   501 1994 00   501 1994 00   501 1994 00   501 1994 00   501 1994 00   501 1995 00   501 1994 00   501 1994 00   501 1995 0		1th Y6, Y111 & Y223	<u></u>		2	88		2581	-	5
1   717   7024   00   2   *40   Blaed Valve Body   503   1393   00     501   501   507   001   2   *41   Compression String   503   1395   001     501   503   557   001   1   *43   Blaed Valve Bunger   503   1395   001     501   503   503   001   1   *43   Blaed Valve Bunger   503   1395   001     501   503   505   01   1   *44   Bonded Seal   417   1013   1066   01   1013   1066   01   1013   1066   01   1013   1066   01   1013   1066   01   1013   1066   01   1013   1066   01   1013   1066   01   1013   1066   01   1013   1066   01   1013   1066   01   1013   1066   01   1013   1066   01   1013   1066   01   1013   1066   01   1013   1066   101   1013   1016   10	9	Wiper Ring	417		-	<b>6</b> Σ <b>*</b>		0393		
Seal   213   570   2   *41   571   407   426   000   1     Header Tank Dipatick   503   050   01   42   Steel (alue plunger bounded Seal   407   900   01   445   446   900   01   445   446   900   01   445   446   900   01   445   446   900   01   445   446   900   01   446   503   170   00   147   170   00   147   170   00   147   170   00   147   170   00   147   170   00   147   170   00   147   170   00   147   100   147   100   00   147   100   00   147   100   00   147   100   00   147   100   00   147   100   00   147   100   00   147   100   00   147   100   00   147   100   100   100   100   100   100   100   100   100   100   10	~	Ring	417			*40	Bleed Valve	1394	-	0
Header Tank Dipatick   503 0561 00   1   *42   Bleed Valve Plunger   503 135 00   1     Seal   Filter Carrier Can   503 005 00   1   *43   Bonded Seal   503 135 00   1     Seal   Filter Carrier Can   503 005 00   1   *45   Bonded Seal   503 135 00   1     Selon Washers   503 005 00   1   *45   Bonded Seal   417 8020 00   1     Selon Washers   503 051 00   1   *45   Bonded Seal   417 8020 00   1     Selon Washers   503 051 30   1   *46   Bonded Seal   417 8020 00   1     Selon Washers   503 051 30   1   *46   Bonded Seal   417 8020 00   1     Selon Washers   503 051 30   1   *46   Bonded Seal   417 8020 00   1     Take Filter   Fank Court   503 050 00   1   *50   Bonded Seal   417 8020 00   1   110 87500 00   1   111 87 8020 00   1   111 805 00   1   110 875 00   1   1   100 800 00   1   100 800 00   1   100 800 00   1	æ		417		2	144	ssion	4280		
Stall   53al   51   53al   53al   51   47   5000   01   445   5000   01   445   3900   00   1     Selon Washers   55lon Washers   55lon Washers   531   01   445   5000   1   446   5000   01   117   1000   01   117   1000   01   111   1050   00   100   100   100   100   100	9	Header Tank Dipstick	503		-	*42		1 105		1
Ciniter Carter Cap     503 0509 00     1     ***     Coupling       Camplete with Y76     540 000     1     ***     Bonded Seal     417 0030 00     1       Salon washers     533 0646 00     1     ***     Bonded Seal     417 0030 00     1       Salon washers     533 0646 00     1     ***     Bonded Seal     417 0030 00     1       Salon washers     533 0646 00     1     ***     Bonded Seal     417 0030 00     1       Salon washers     533 051 00     1     ***     Bonded Seal     417 0030 00     1       Salon washers     533 051 00     1     ***     Bonded Seal     417 000     1       Salon washers     533 051 00     1     ***     Bonded Seal     110 0550 00     1       Tark Titler     **     503 050 00     1     ***     Bonded Seal     110 0550 00     1       Tark Titler     **     503 050 00     1     ***     Bonded Seal     110 0550 00     1       Teak     Cowpling     **     500 500 00 <td>5</td> <td>Seal</td> <td>417</td> <td></td> <td>-</td> <td>104</td> <td>Bonded Seal</td> <td>DADA</td> <td></td> <td>18.5</td>	5	Seal	417		-	104	Bonded Seal	DADA		18.5
Complete with Y76     3     45     Bonned Seal     477     8000     1       Selon washers     503     0645     1     447     8000     1       Selon washers     503     0645     1     447     8000     1       Selon washers     503     0645     1     447     8030     00     1       Tark Filter     503     0645     0     1     447     8030     00     1       Tark Filter     503     0645     0     1     447     8030     00     1       Tark Filter     503     0645     0     1     437     8030     0     1     11064     0     147     1064     0     147     1064     0     147     1064     0     147     1064     0     147     1064     0     147     1064     0     147     1064     0     147     1064     0     147     1064     0     147     1064     0     147     1	-	Filter Carrier Cap	503		-	*44	Counter			S
Salon Washers   417 7170 00   3 *46 Matter   117 00   3 *46 Matter   117 00   110 0000   1     Tank Filter   503 0646 00   1 *47 000   1 *47 000   1 *47 000   1 *47 000   1 *41 0064 00   2     Tank Filter   503 0545 00   1 *47 000   1 *47 000   1 *47 000   1 *47 000   1 *47 000   1 *47 000   1 *47 000   1 *47 000   1 *47 000   1 *47 000   1 *47 000   1 *40 000   1		Complete with Y76			17	59*			- •	j.
Gasket   503 0646 00 1   -47   Bonded Seal   417   B020 00 2     Taker Filter   597 100   141 1064 00 2   141 1064 00 2   141 1064 00 2     Taker Filter   503 0513 00 1   143 0000 1   141 1064 00 2   141 1064 00 2     Taker Filter   503 0513 00 1   141 0000 1   141 1064 00 2   141 1064 00 2     Taper Fuluy (Non-Weigher Machines   503 0904 00 1   141 0000 1   141 1064 00 2   141 1064 00 2     Taper Fuluy (Non-Weigher Machines   503 0904 00 1   141 0000 1   504 4376 00 1   141 0064 00 2     Taper Fuluy (Non-Weigher Machines   503 0904 00 1   141 0000 1   504 4376 00 1   141 0064 00 2     Complete with Y1, Y110 & Y222   503 0905 00 1   141 0000 1   503 1326 00 1   503 1326 00 1     Header Tank   Complete with Y1, Y110 & Y222   503 0903 00 1   504 4376 00 1   513 2575 00 1     Header Tank   Complete with Y1, Y110 & Y222   501 700 00 2   513 2575 00 1   513 2575 00 1     Header Tank   Complete with Y1, Y110 & Y222   513 260 00 1   513 2575 00 1   513 2575 00 1     Julo   Valee Mounting Boss   503 700 00 2   513 201 00 2   513 2575 00 1 </td <td>12</td> <td>Selon Washers</td> <td>417</td> <td></td> <td>1</td> <td>90*</td> <td></td> <td></td> <td></td> <td>)</td>	12	Selon Washers	417		1	90*				)
Spring     Spring<	13	Gasket	503		, -				- (	a
Tank Filter     503 0513 00 1     400 MUD LING     501 A375 00 MUD LING     110 9530 00 MUD LING     110 MUD LING     501 A375 00 MUD LING     110 MUD LING     111 MUD L	14	Spring	202					8020	N	re
Taper Flug   Von-Weigher Machines   00.0010 0   110 9530 00 1     0nly   Value (Won-Weigher Machines   503 4000 0   1   550 4375 00 1     0nly   Faile Clip   503 4375 00 1   1   551 4375 00 1     Header Tank Cover   503 0904 00 1   1   551 500 0   1   504 4375 00 1     Complete with Y14   Y110 & Y223   503 0905 00 1   1   553 590 00 1   504 4375 00 1     Header Tank Cover   503 0905 00 1   1   553 590 00 1   504 4375 00 1   504 4375 00 1     Header Tank Cover   503 0905 00 1   1   553 590 00 1   553 595 00 1   501 4376 00 1     Header Tank Casket   503 0905 00 1   553 590 00 1   553 595 00 1   513 259 00 1     Header Tank Casket   503 0903 00 1   554 Hydreulic Pipe   513 257 00 1   513 257 00 1     Valve Mounting Bose   503 0909 00 2   57 Hydreulic Pipe   513 257 00 1   513 257 00 1     Valve Mounting Bose   513 250 00 1   513 257 00 1   513 257 00 1   513 257 00 1     Valve Mounting Bose   513 204 00 0   2   51 Hydreulic Pipe   513 257 00 1     Seal   200 00 0 <td>5</td> <td>Tank Filton</td> <td></td> <td></td> <td></td> <td></td> <td>buttdnon</td> <td>1064</td> <td>2</td> <td>Э</td>	5	Tank Filton					buttdnon	1064	2	Э
apper Fug (won-weigher factines only)   *50 Support for Clip   504 4375 00   1     anay   Fank Cover   503 0904 00   1   *51 Fige Clip   504 4375 00   1     Header Tank Cover   503 0905 00   1   *51 Pipe Clip   503 4375 00   1     Complete with Y1, Y110 & Y223   503 0905 00   1   *55 Securing Picce for Bleed Valve   503 1770 00   1     Header Tank   503 0905 00   1   *55 Securing Picce for Bleed Valve   513 2582 00   1     Gomplete with Y1, Y110 & Y222   513 003 00   1   \$54 Ydraulic Pipe   513 2576 00   1     Valve   Founting Boss   513 2576 00   1   513 2576 00   1   513 2576 00   1     Valve   Founding Boss   446 610 00   1   513 2576 00   1   513 2576 00   1     Valve   Founding Boss   446 610 00   1   513 2576 00   1   513 2576 00   1     Stud Standpipe   513 2576 00   1   513 2576 00   1   513 2576 00   1     Stud Standpipe   513 200 00   1   513 200 00   1   132 201 00   1		10110	chc		-	60.		9530	-	s
Only)   Solution   So	-	6nT4	-			*50	H	4376	-	10 10
Header Tark Cover   503 0904 00   1   Complete with Y12, Y12 & Y224   513 1324 00   1     Complete with Y74 & Y223   503 0905 00   1   *53 1324 00   1   *53 1324 00   1     Header Tark   Complete with Y1, Y110 & Y223   503 0905 00   1   *53 5ecuring Place for Bleed Pipe   503 1770 00   1     Header Tark   503 0903 00   1   *53 5ecuring Place for Bleed Valve   503 1770 00   1     Complete with Y1, Y110 & Y222   503 0903 00   1   *55 5ecuring Place for Bleed Valve   513 2575 00   1     Complete with Y1, Y110 & Y222   241 7030 00   1   557 300   1   557 300   1     Complete with Y1, Y110 & Y222   241 7030 00   1   556 00   1   557 300   1   557 300   1     Valve Mounting Boss   546 6500 00   1   568 Hydraulic Pipe   513 2575 00   1   513 2575 00   1   1   513 2573 00   1   1   513 2573 00   1   1   1   1   2   1   1   1   1   1   2   1   1   1   1   1   1   1 <t< td=""><td></td><td>(ATUD</td><td>241</td><td></td><td>-</td><td><b>*</b>51</td><td>Pipe Clip</td><td>4375</td><td>-</td><td>PL</td></t<>		(ATUD	241		-	<b>*</b> 51	Pipe Clip	4375	-	PL
Complete with Y74 & Y223   503 0905 00   1   *52   Packing Block for Bleed Pipe   513 1324 00   1     Header Tank Gasket   503 0905 00   1   *53   Securing Picce for Bleed Valve   503 1770 00   1     Header Tank Gasket   503 0903 00   1   *53   Securing Picce for Bleed Valve   503 1770 00   1     Header Tank Gasket   503 0903 00   1   *53   Securing Picce for Bleed Valve   513 2575 00   1     Sud Standpipe   513 2575 00   1   55   Hydraulic Pipe   513 2575 00   1     Valve Mounting Boss   513 2576 00   1   55   Hydraulic Pipe   513 2573 00   1     Stud Standpipe   533 0890 00   2   57   Hydraulic Pipe   513 2573 00   1     Stud Standpipe   446 6600 00   1   56   Hydraulic Pipe   513 2573 00   1     Stud Standpipe   513 204 00   1   58   Hydraulic Pipe   513 2573 00   1     Stud Standpipe   513 204 00   1   58   Hydraulic Pipe   513 2573 00   1     Stud Standpipe   513 204 00   1   58	21		503		-		» with Y12, Y112 &			Jb
Header Tank Gasket   503 0905 00   1   *53 Securing Piece for Bleed Valve   503 1770 00   1     Header Tank   503 0903 00   1   *53 Securing Piece for Bleed Valve   503 1770 00   1     Complete with Y1, Y110 & Y222   503 0903 00   1   55 Hydraulic Pipe   513 2575 GU   1     Plug   Complete with Y1, Y110 & Y222   241 7030 00   1   55 Hydraulic Pipe   513 2575 GU   1     Plug   Valve Mounting Boss   503 0898 00   2   57 Hydraulic Pipe   513 2575 GU   1     Valve Mounting Boss   53 0898 00   1   56 Hydraulic Pipe   513 2575 GU   1   513 2575 GU   1     Valve Mounting Boss   53 100   1   56 Hydraulic Pipe   513 2575 GU   1   1     Valve Mounting Boss   513 101 00   2   57 Hydraulic Pipe   513 2573 00   1   1     Saal   Coupling   417 8060 00   1   58 Hydraulic Pipe   513 2573 00   1     Saal   Coupling   Moulded Hose   513 2204 00   1   513 2573 00   1     Cupled Hose   Saal   Coupling   Saal   513 2		-8			8	*52	Block for Bleed Pi	1324		lic
Header Tank   503 0903 00 1   54 Hydraulic Pipe   513 2592 00 1     Complete with Y1, Y110 & Y222   241 7030 00 1   55 Hydraulic Pipe   513 2575 00 1     Dlug   241 7030 00 1   56 Hydraulic Pipe   513 2575 00 1     Plug   241 7030 00 1   56 Hydraulic Pipe   513 2576 00 1     Plug   503 0898 00 2   57 Hydraulic Pipe   513 2576 00 1     Stud Standpipe   446 6600 00 1   58 Hydraulic Pipe   513 2573 00 1     Seal   446 6120 00 1   58 Hydraulic Pipe   513 2573 00 1     Coupling   00110   2   513 2573 00 1     Coupling   011   58 Hydraulic Pipe   513 2573 00 1     Seal   00010   1   58 Hydraulic Pipe   513 2573 00 1     Coupling   010   2   513 100 0   2   513 2573 00 1     Coupling   010   1   58 Hydraulic Pipe   513 2573 00 1   1     Moulded Hose   132 1010 00 2   513 2010 0   2   1   2   1     Coupling   01100 00 2   1   2   2   2   1   1     Moulded Hose   513 200 10 2<	18	Header Tank Gasket	503		-	۳S *	a Piece for Bleed	1770		at
Complete with Y1, Y110 & Y222A55Hydraulic Pipe5132575 GU1PlugValve Mounting Boss503 0898 002557 Hydraulic Pipe5132575 GU1Valve Mounting Boss503 0898 002571 Hydraulic Pipe5132575 GU1Stud Standpipe503 0898 002571 Hydraulic Pipe5132573 001Stud Standpipe503 0898 002571 Hydraulic Pipe5132573 001Stud Standpipe446 6600 00158Hydraulic Pipe5132573 001Saal446 6120 00158Hydraulic Pipe5132573 001Coupling132 1010 0021446 6310 0011Moulded Hose513 2031 002446 5300 002**Moulded Hose513 1173 002****Bonded Seal6000 002****Bonded Seal6000 002****Douplete with Y10, Y112 & Y224513 1173 001**Sign Hydre with Weigher only2***	6	Header Tank	503		-	54	Pipe	2582		tio
Plug   241 7030 00   1   56 Hydraulic Pipe   513 2574 00   1     Valve Mounting Boss   503 0898 00   2   57 Hydraulic Pipe   513 2574 00   1     Stud Standpipe   503 0898 00   2   57 Hydraulic Pipe   513 2575 00   1     Stud Standpipe   503 0898 00   2   57 Hydraulic Pipe   513 2573 00   1     Stud Standpipe   446 6600 00   1   58 Hydraulic Pipe   513 2573 00   1     Stud Standpipe   446 6120 00   1   58 Hydraulic Pipe   513 2573 00   1     Coupling   132 1010 00   2   132 1010 00   2   446 6120 00   1   513 2041 00   1     Culp   Moulded Hose   513 2041 00   1   132 1010 00   2   446 530 00   1   446 530 00   2   *   These items are used on machines   513 1173 00   1   *   *   These items are used on machines   1   1   1   *   *   *   *   *   1   1   1   1   *   *   *   *   *   1   *   1   1   1		lete with Y1, Y110 &			4	55		2575		n
Valve Mounting Boss   503 0898 00   2   57   Hydraulic Pipe   513 2576 00   1     Stud Standpipe   446 6600 00   1   58   Hydraulic Pipe   513 2573 00   1     Seal   446 6120 00   1   58   Hydraulic Pipe   513 2573 00   1     Coupling   446 6120 00   1   58   Hydraulic Pipe   513 2573 00   1     Clip   132 1010 00   2   1   513 2041 00   1   513 2573 00   1     Clip   132 1010 00   2   513 2041 00   1   513 2041 00   1   513 2573 00   1     Moulded Hose   513 2041 00   1   1   1   2   1   2   1   1   1   2   1   2   2   2   2   1   2	20	Plug	241		-	56		2574		N
Stud StandpipeStud Standpipe446 6600 00158Hydraulic Pipe513 2573 001SealCoupling417 8060 002417 8060 002513 2573 001Coupling446 6120 001132 1010 002446 6370 002Cupling513 2041 0011446 6310 002Moulded Hose513 2041 0011Coupling446 6310 002446 6310 002Bonded Seal446 5300 002*These items are used on machinesBonded Seal6000 002**Coupling2**These items are used on machinesPipe Header513 1173 002**Complete with Y10, Y112 & Y224513 1173 002*	21	e Mounting	503		2	57		2576		05
Seal   417 8060 00   2     Coupling   446 6120 00   1     Coupling   132 1010 00   2     Moulded Hose   446 6310 00   2     Mouded Seal   447 8030 00   2     Bonded Seal   446 3400 00   2     Bonded Seal   417 8020 00   2     Pipe Header   417 8020 00   2     Pipe Header   with weigher only	22		446		-	58		3 2573	•	39
Coupling446 6120 00 1446 6120 00 1Clip132 1010 00 2132 1010 00 2Moulded Hose513 2041 00 11Moulded Hose446 6310 00 2Coupling446 5310 00 2Bonded Seal446 3400 00 2Goupling446 3400 00 2Bonded Seal446 3400 00 2Pipe Header417 8020 00 2Pipe Header513 1173 00 1Pipe Headerwith weigher only	23	Seal	417		2					8
Clip Moulded Hose Coupling Coupling Bonded Seal Coupling Bonded Seal Coupling Bonded Seal Fipe Header Pipe Header Complete with Y10, Y112 & Y224 Complete with Y10, Y112 & Y224	24	Coupling	446		-		×.			
Moulded Hose     513 2041 00     1       Coupling     446 6310 00     2       Bonded Seal     417 8030 00     2       Coupling     446 3400 00     2       Bonded Seal     417 8030 00     2       Bonded Seal     417 8020 00     2       Pipe Header     513 1173 00     1       Complete with Y10, Y112 & Y224     2     * These items are	25	Clip	132		2					
Coupling   446 6310 00   2     Bonded Seal   417 8030 00   2     Coupling   446 3400 00   2     Bonded Seal   417 8020 00   2     Honded Seal   417 8020 00   2     Pipe Header   417 8020 00   2     Pipe Header   513 1173 00   1     Complete with Y10, Y112 & Y224   2	26	Moulded Hose			-					
Bonded Seal     417 8030 00     2       Coupling     446 3400 00     2       Bonded Seal     417 8020 00     2       Bonded Seal     417 8020 00     2       Pipe Header     513 1173 00     1       Complete with Y10, Y112 & Y224     2	27	Coupling			~					
Coupling     446 3400 00     2     * These items are       Bonded Seal     417 8020 00     2     * These items are       Pipe Header     513 1173 00     1     with weigher on       Complete with Y10, Y112 & Y224     2     * These items are	28	Bonded Seal			2					
Bonded Seal 417 8020 00 2 * These items are Pipe Meader 513 1173 00 1 with weigher on Complete with Y10, Y112 & Y224 2	29	Coupling			2					
Pipe Header Complete with Y10, Y112 & Y224 513 1173 00 1 with weigher on	B	Bonded Seal			2		These items are			
with Y10, Y112 & Y224	3				-		eigher on			
		th Y10, Y112 &			~		n			

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When Ordering Always Quote

:- Machine Nº , Part Nº, Description and Quantity



그 영말 이 집 말 같		
Qty		
Part No	272 1020 00   272 1020 01   272 1020 02   272 1020 03   272 1020 04   272 1020 06   272 1020 07   272 1020 07   272 1020 07   272 1020 07   272 1020 01   272 1020 01   272 1020 01   272 1020 10   272 1020 10   272 1020 10	
Description	Weston Ram Complete Collar Collar Housing Assembly End Cap Piston Rod Assembly Ram Cylinder Assembly End Bearing Assembly Spring Ring Washer Pressure Seal Wiper Seal	
Ref	- 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	



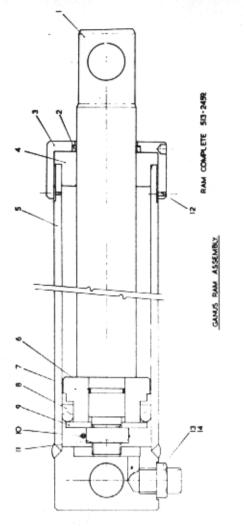
When Ordering :-Always Quote

Machine No, Part No, Description and Quantity



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**E4** 



Qty		
Part No	272   1270   18     272   1270   12     272   1270   13     272   1270   14     272   1270   10     272   1270   10     272   1270   10     272   1270   16     272   1270   06     272   1270   01     272   1270   01     272   1270   01     272   1270   01     272   1270   01     272   1270   16     272   1270   16     272   1270   16     272   1270   16     272   1270   16     272   1270   16     272   1270   16     272   1270   16     272   1270   16     272   1270   16     272   1270   16     272   1270   16     272   1270	
Description	Piston Rod L2307 Wiper Seal L1755 Front Cap L2752 Front Insert L2756 O' Ring L1748 Piston Seal Assembly L1748 Piston Seal Assembly L1754 Back up Plate L1749 Cotter Pin L1754 Setscrew L1769 Cotter Pin L2755 Nut L2755 Nut L2755 Setscrew L1749 Setscrew L1749 Setscrew L1749 Bonded Seal Assembly L1756 Setscrew L1749 Setscrew L1749 Setscrew L1749 Setscrew L1749	* These Items can be bought in Kit Form - Ram Seal Kit, Part Number 272 1270 17
Ref	- 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	

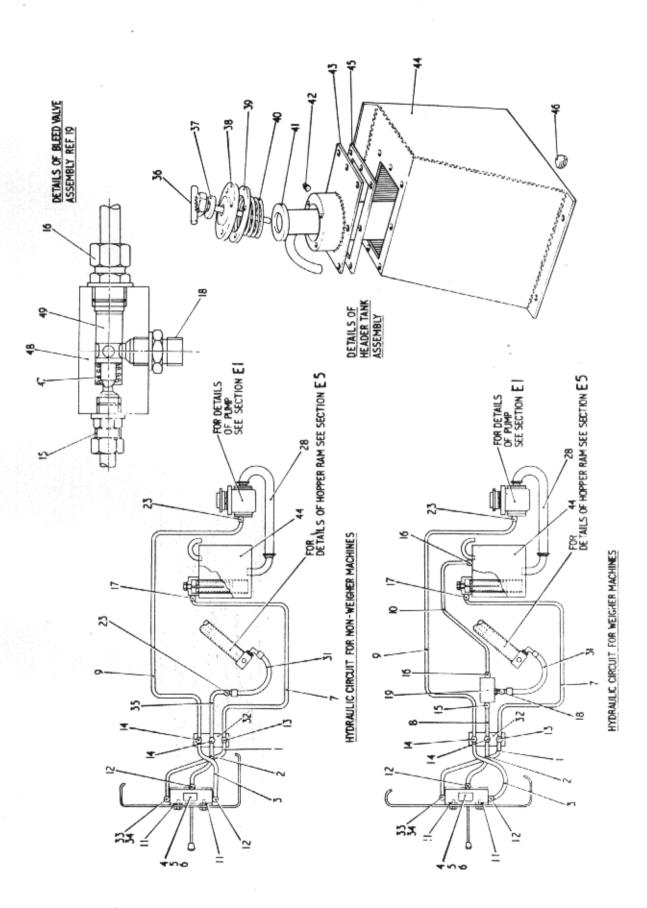
When Ordering :- Machine No

Machine No, Part No, Description and Quantity



Ref	Description	Part N <sup>o</sup>	Qty
	Tube Assembly L4237 Piston Rod L4279 Piston Head L1748 Back up Plate L1749 Front End L1754 Piston Seal L1754 Wiper Seal L1755 101 Ring L220 Nut L2755 Split Pin L2755 Screw L2820	272 1350 01 272 1350 02 272 1350 02 272 1273 00 272 1276 00 272 1276 00 272 1279 00 272 1279 00 272 1270 10 272 1270 16 272 1270 16 272 1270 16 272 1270 16	
	TO IDENTIFY THIS TYPE OF CYLINDER THE LETTER 'B' IS STAMPED ON THE FREE END OF THE PISTON ROD.		
	for complete hopper ram assembly comprising all items listed above order Part No. 272 1350 00 NOTE: Items 6, 7 & 8 can be bought in kit form - Ram Seal Kit - Part No. 272 1270 17.	- 	

When Ordering :- Machine No, Part No, Description and Quantity



When Ordering :-Always Quote

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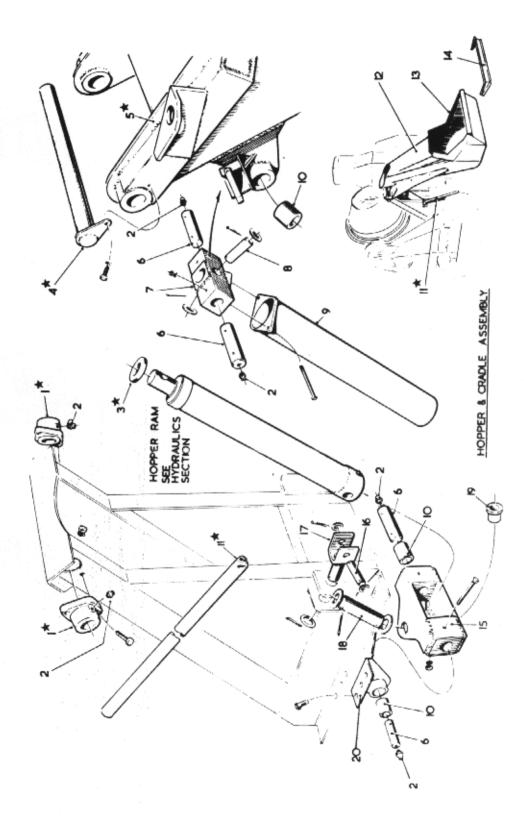
Machine Nº, Part Nº, Description and Quantity

				L			
Ref	Description	Part No	Qty	Ref	Description	Part No	Qt/
-	Hvdraulic Hose	1		5	. Pine Header Dlate	513 2921 00	-
10	draulic Hos	2015			ale Edentor	10099	• •
1 14		2100		3	ate with Bor		1
4	Control Valve Ref 451 4417 00	4417	h	45	Male Adaptor (Refe 5 2 6 only)	0400	1-
Ś	Valve Ref 451 4426	4426		5	lete with: Bonded S	8030	• -
9	Valve Ref 451 4425			35		2573	•
	6 each complete with			36	Header Tank Dipstick		•
	Y97 and Y234		2	37		8080	-
~		2575	1	85	Filter Carrier Cap	0509	-
80 *	Pipe	2574					ы
Dh -	Pipe	2576			Selon Washers	417 7170 00	ы
		9530	-	5	Gasket	0646	Ч
1;	Spacer (for Refs 5 & 5 only)			40	Spring	3341	Ч
ZT.	otor	0110		41	ilter		-
t		8030		4	5010	7020	
2.4	Uulkhead Connector	00 01/82 985		4	/8r	503 0904 00	
t t T	Curkhead Lonnector	4004		4	complete with: Y/4 & YZZ3		
-	hologo (44)			44	Ink 	203 0903 00	
	complete with: Honded Seal	07.08			Ce wit		4,
9	coupling the Bondod Cool	440 3490 00	-		Header lank wasket		
	MT 611 * DOLIGEO 260						4 4
4				1.4	1012SS	402 4280 00	-1.º
1	complete with: Bonded Seal	7 8030		# 4 B	leed Valve	1394	-
8		3 1066		* 49	Bleed Valve Plunger	503 1395 00	ч
	complete with: Bonded Seal	8030					
6	Bleed Valve Assembly complete	503 1393 00		*		<del>5</del>	
20					weigher only		
10							
V F	Court inc	466 6120 00					
1 1	complete with: Bonded Seal	8030	1		~		-
24							
25							
26							
27	Mond Hord	00 1906 213					
2	complete with: Clip		10				
29		) # ) #					
B							

When Ordering Always Quote

:- Machine Nº , Part Nº, Description and Quantity

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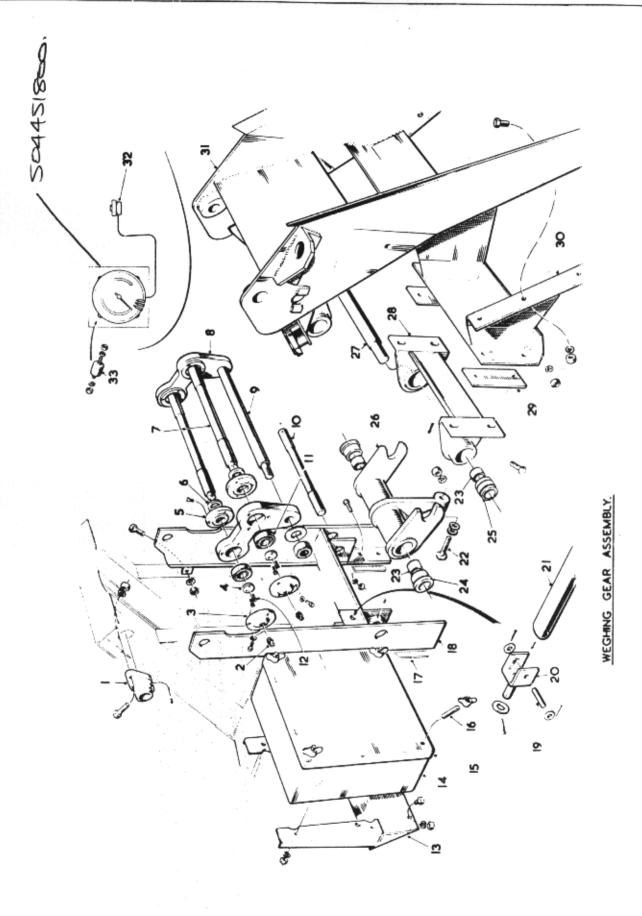
# Winget Spares Publication NºS98

Ref D	Description	Part N <sup>0</sup>	aty	Ref	Description	Part No	Qty
Hopper Pivot Bearing		503 0519 00	2		* These Items are only applicable	-	
Complete with Y23, Y113 & Y226	3 & Y226		4		ler Machir		
			<u>،</u> ص				
BULT BI		2000			See Group G1 for details of equive-		
Hopper Pivot Shart		00 8140 204	- •		lent parts to suit Weigher Machines		
	ŧ	503 0530 DD					
Mopper Lradie Commists with V171 V11A V133	A V177 2	47 CN	-				
Compared with Till, 111			Ľ				
Ram Yoke Pin		503 0537 00	4				
Upper Ram Yoke		0515	-				
Complete with Y16, Y112 & Y224	& Y224		2				
Upper Yoke Pin		503 0497 00	-				
Complete with Y242 & Y261	61		2	Ģ			
Ram Shroud		0496	-				
Yoke Pin Bush		2100	4				
Hopper Prop		0487	-				
Hopper Caver		503 0791 00	-				
Complete with Y10, Y112 & Y224	& Y224		80		5		
Loading Hopper		-	-				
Hopper Extension (Optional)	(let	503 0792 00	-				
Complete with Y10, Y112 & Y224	& Y224		80				
Lower Ram Yoke		503 0516 00	-				
	Y112 & Y224		2				
		502 8015 00	-				
Complete with Y240 & Y258	58		2				
Hopper Prop Swivel		8013	-				
Lower Yoke Pin (Weston Rem only)	Ram only)	503 0498 00	-				
Complete with Y242 & Y261	61		2				
Lower Yoke Pin (Ganus Ram only)	am only)	513 2456 00	-				
Complete with Y261			2				
Lower Yoke Bush (Ganus Rem only)	Ram only)	513 2455 00	2				
Hopper Ram Pivot Brackets	t a		1RH				
Complete with Y45. Y121 & Y139	4 Y139		۰ ۲				

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:- Machine Nº , Part Nº, Description and Quantity





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Machine No, Part No, Description and Quantity

Winget Spares Publication NºS 98

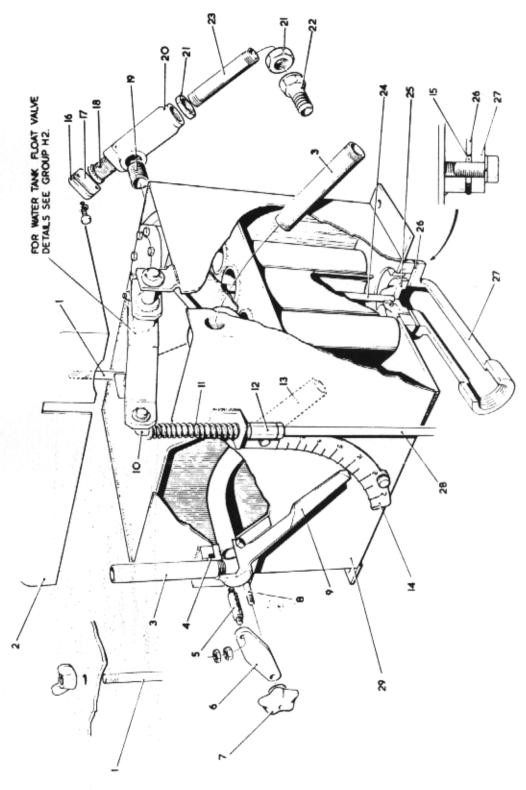


	1	_			-								1																		
ð		4 4 0	N	-	0		4	80																							
Part No	503 1205 00 503 1204 00	E03 1202 E0		503 1203 00			013 2020 00																								
Description	Lower Cradle Shaft Lower Hopper Cradle Bracket Complete with Y71 & Y222	Packino Plates	Connection Bracket for Lower Monder	Cradle	complete with Y19, Y113 & Y226 Honner Fradle	Loadcall and Cause Geeembly	Anti-Vibration Mounting	Complete with Y110 & Y222																	~						
Ref	27 28	29			F		5																			 					
Qty	N 4 N	44	12	4 4	1 2	4	2	N -			4	80	•	4	-	4	-	4	4	-	SET 1	- 01	4	- (	~ •	 		. 0	1 00	2	~
Part N <sup>O</sup>		333 1020 20 503 1162 00		503 1160 00 503 1161 00		417 7030 00	1165	503 1164 00		503 1206 00	1250	8770	503 1574 00		504 5539 00		504 5541 00	504 5596 00		504 4212 00	504 4211 00			502 8015 00		1507	2		114 6180 00	513 2359 00	513 2360 00
	Hopper Pivot Beering Complete with Y23, Y113 & Y226 Y187	Nipple Bearing Cap	Complete with Y75 & Y223	Bearing Retainer Seal Housing	Complete with Y170	Seal	Hopper Pivot Shaft	Top Link Spacer	Complete with Y122 & Y242	Lower Arm Pivot Shaft	Bearing	Special Screw	Mounting Bracket for Gauge Box	Complete with Y85 & Y226	Gauge Mounting Box	Complete with Y10, Y112 & Y224	Gauge Box Cover	Stud for Gauge Box	Complete with Y271 & Y246	Weighing Frame Packing Plates	Weighing Frame	with		Complete with voin a voie	9C71 \$	 ttan	114 & Y227		Bush	Irm Insert	Cradle Bracket Insert Lower Arm Pivot
Ref	- 0	2 10	•	et 10		9	r a	0		2	1	12			14	1		16	-	17	18			2	00	 Teach in the second					25 26 L
									-					-		-						-				 			- 4		

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- Machine Nº , Part Nº, Description and Quantity





WATER TANK ASSEMBLY.

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Machine No, Part No, Description and Quantity

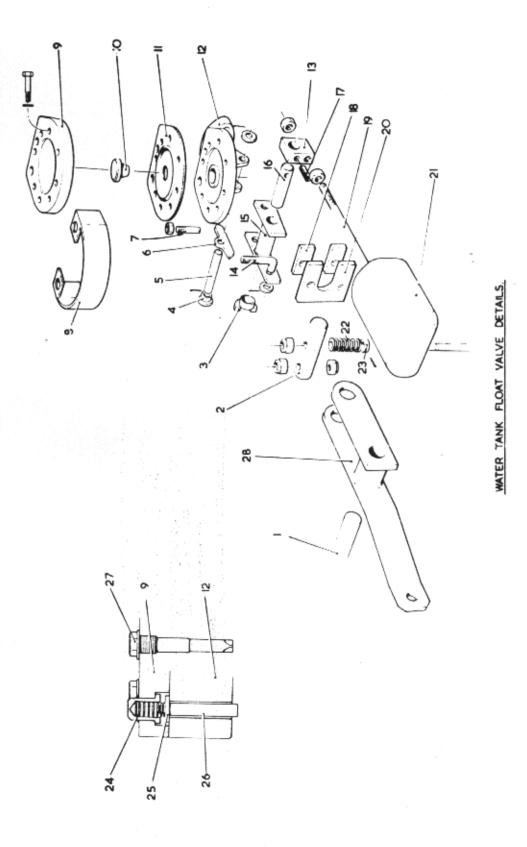
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Spares Publication NºS 98

ŭ	Ref	Part N <sup>O</sup>	Qty	Ref	Description	Part No	Qtv
			•				
	1 Cover Stud	502 8164 00	-	27	Tank Outlet Connector	502 8681 00	-
			-		Complete with Y86 & Y226		n
	2 Tank Cover		-	28	Connecting Rod	513 1081 00	-
.,		502 8133 00	2		Complete with Y132 & Y238		~
4	A Rubber Sealing Ring	502 8107 00	-	29	Tank Body	502 8124 00	-
-	Distance Piece	502 8165 00	-				
-	6 Clamp Stirrup	502 8102 00	-				
	7 Locking Handle	502 8105 00	-				
80			2				
	Complete with Y113 & Y132		-				
6	Indicator (used with individual						
	gallon and litre scales)	502 8109 00	-				
		555 1646 00	-				
10	Operating	502 8127 00	-				
	Complete with Y238 & Y257		-				
1		424 2104 70	-				
12		502 8134 00					
	Complete with Y132	8134	2				
13	Air Pipe	8117	-				
14		502 8155 00	-				
	Tank Scale (Litres)	513 1775 00	-				
	Scale	1645	-				
	omplet		2				
15	_	502 8849 00	ю				
16	Strainer	9175	•				
	Complete		~				
17	Strainer Cap Gaske	502 9177 00	-		а. -		
18	Strainer	502 9174 00	۰				
19	Nipple	241 4061 20	"				
20	Strainer Body	502 9172 00	-		~		
21	Back Nut	240 1060 00	2				
22	Hose Connector	130 3060 00	-				
23	Water	8583	-				
24	-	1153	4-				
	Complete with Y146		-				
25	Outlet Valve	502 8103 00	-				
	Complete with Y259		-				
26	Valve Seat	502 8071 00	-				

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:- Machine No, Part No, Description and Quantity



When Ordering :- Always Quote

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# **VVIIIGET** Spares Publication N°S98

Q		
Part No		
Description		
Ref		
Qty	- 4 0 0 0 0	NN-N-N
Part N <sup>o</sup>	502 8130 00   502 8131 00   502 8096 00   502 8095 00   502 8095 00   502 8095 00   502 8122 00   502 8122 00   502 8682 00   503 1533 00   503 1533 00   503 0685 00   503 1533 00   503 0812 00   503 0812 00   503 0812 00   503 0812 00	<b>502 9273 00</b> <b>502 8097 00</b> <b>502 9902 20</b> <b>502 9902 20</b> <b>502 9902 10</b> <b>502 9902 10</b> <b>502 9102 10</b> <b>502 9163 00</b> <b>502 9163 00</b>
Description	Operating Lever Pin Complete with Y240 & Y258 Operating Pin Cam Trip Lever Bush Reset Lever Bush Reset Lever Pin Complete with Y246 & Y257 Trip Lever Stop Pin Complete with Y130 Splash Guard Float Valve Top Cover Complete with Y73 & Y276 Diaphragm Float Valve Body Complete with Y81 & Y224 Float Valve Body Complete with Y81 & Y256 Complete with Y81 & Y256 Complete with Y81 & Y256 Complete with Y81 & Y256 Complete with Y81 & Y256	Y146 Reset Lever Float Arm Pin Y188 Backing Strip Float Arm Complete with Y111 Restrictive Plate Complete with Y90, Y140 & Y222 Polythene Float Spring Complete with Y266 Pollar Complete with Y266 Pilot Valve Spring Pilot Valve Spring Pilot Valve Stem Bleed Screw Complete Operating Lever
Ref	- NWAN NF ND 544 54	23223 2323 0 12 12 12 12 12 12 12 12 12 12 12 12 12

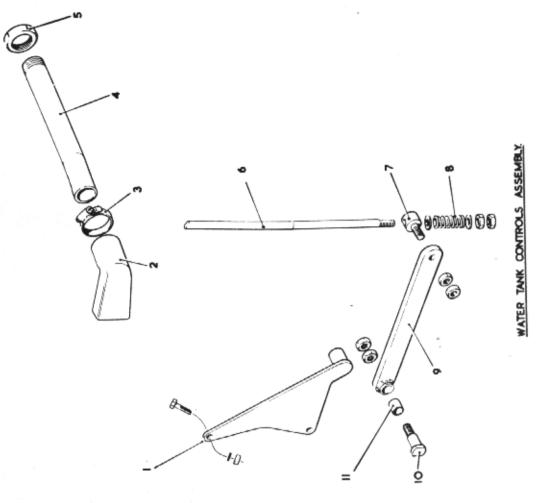
When Ordering Always Quote

:- Machine Nº , Part Nº, Description and Quantity







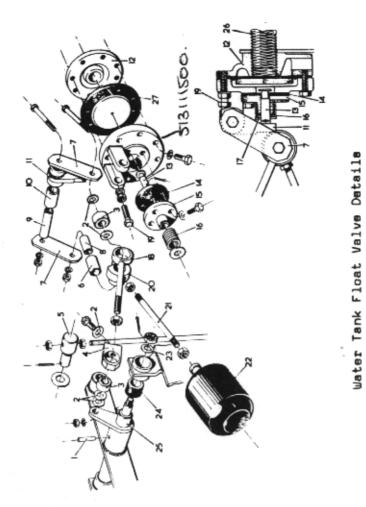


Qty		
Part No	502 7889 00 504 5315 00 504 5314 00 513 1081 00 513 1081 00 513 1081 00 512 8051 00 502 8053 00 502 8106 00 105 4121 40	
Description	Trip Plate Delivery Pipe Nozzle Clip Delivery Pipe Backnut Connacting Rod Water Lever Pin Complate with Y132 Spring Water Tank Lever Pivot Pin Complete with Y132 Bush	
Ref	- N M 4 M 9 M 9 M 9 M 9 M 9 M 9 M 9 M 9 M 9	



Machine No, Part No, Description and Quantity

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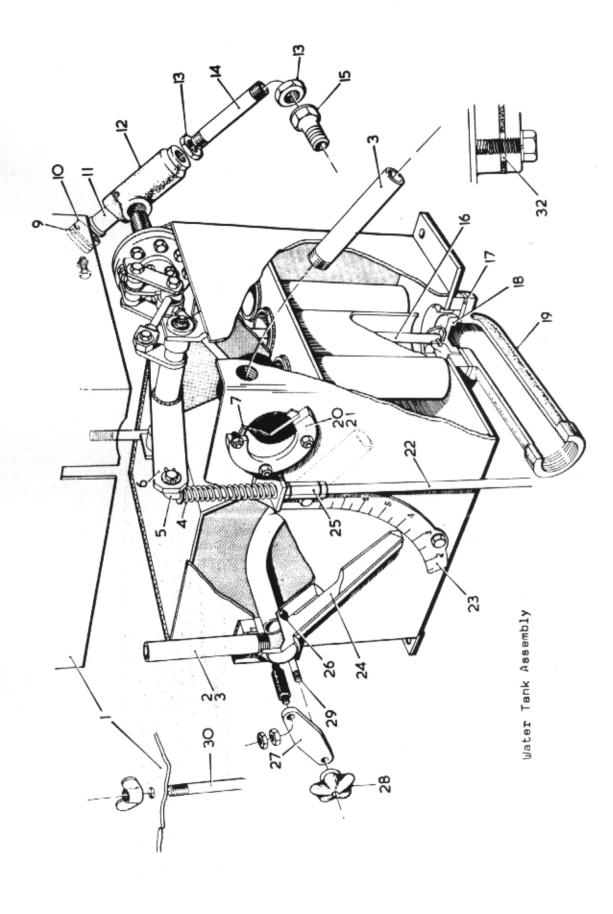


Ref	Description	Part No	Qty
-	pin	1081	-
~	Washer (Reset Lever)	3 1125	ъ
n	Bearing	7 3060	2
4	Reset Link End	m	-
			-
ŝ	Operating Pin	513 1132 00	-
	Jth		-
9	Tufnol Bush (Cam)	513 1127 00	-
~	Link	513 1136 00	2
	Complete with Y51, Y111 & Y223		2
80		513 1130 00	-
6	ce Piec	38	•
2	18	3 1126	+
5	Trip Lever	513 1128 00	-
13	lve Bo	3 11	←
	Complete with Y49 & Y276		~
5	Pilot Valve	513 1139 00	-
	Complete with Y257		-
14	Valve	513 1144 00	-
15	Valve Gu	-	-
	ete wit		4
Ĵ6	Pilot Valve Spring	13 11	-
17	Valve	9	-
18	F	13 11	-
	Complete with Y131		-
5			÷
	Complete with Y110 & Y276		-
2		513 1149 00	-
5	Float Arm	3	-
	Complete with Y141		2
22		220 3000 00	-
23	Washer (Operating Lever		
	Shaft)	513 1131 00	2
24	Rubber Bush	513 1123 00	2
25	Operated Lever Shaft	3 112	-
	Complete with Y286 & Y257		2
26	Nipple	5	-
27	Diaphram Complete		-
			• ,

When Ordering :- Always Quote

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Machine No, Part No, Description and Quantity



When Ordering :\_ Always Quote

H5 Winget

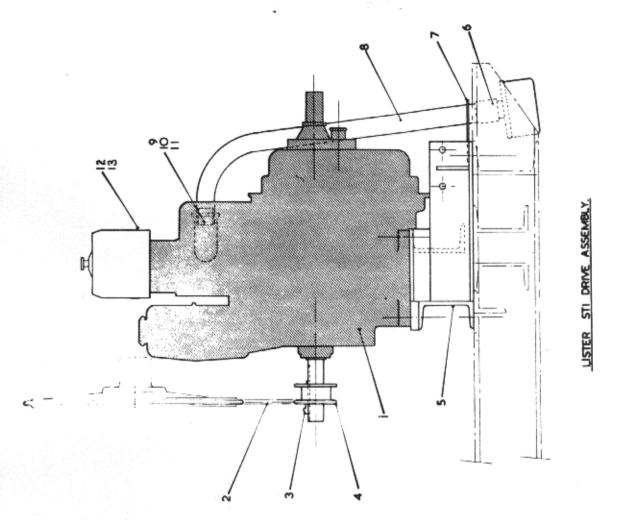
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L.	ſ					[					
<u> </u>	Ref	Description		Part N <sup>o</sup>		Qty	Ref	Description	Part No	Qty	V
1	-	Water Tank Cover	513	3 1148	8	-	27	Clamp Stirrup	502 B102 00	-	Y
	2		502			-	28		8105		Ĭ
	n	Air Pipe Extension	502			2	29	Y217			1
	4	Compression Spring	424			-		Complete with Y113 & Y132		i -	1
	ŝ	Operating Link	502			-	30	ŏ	502 8165 00	•	ł
		Complete with Y238 & Y257	-			-	5	Cover Stud		•	
	9	Operating Lever	5		8	-		Complete with Y271		-	5
	~	Sight Glass	513		8	-	32	Distance Washer	502 8849 00	- 10	1
	8		513		00	-				)	ł
	6		50	2 9175	8	-					t
		Complete with Y77 & Y223	-			2					
_	9		502	2 9177	8	-					
	5	Strainer Element	502	2 9174	8	-					
	12	Strainer Body	502	2 9172		-					
	5	Backnut	240	0 1060	0	2					S
	4	Water Supply Pipe	502	2 8583	8	-					p
-	15	Hose Connection	130	0 3060	8	-					a
-	9	Valve Rod	513	3 1153	8	-					r
		Complete with Y146				2					е
		Y 259				-				1	S
-	17	Valve Seat	502	2 8071	8	-					;
-	18	Outlet Valve	502	2 8103	8	-					Pu
-	6	Tank Outlet Connector	502	2 8681	8	-					ıb
		Complete with Y86 & Y226				ю					lic
-	20	Sight Glass Seal	51	3 1121	8	-					at
14	21	Sight Glass Frame	513	3 1122	8	-					io
		Complete with Y49, Y110, Y222 & Y276	10			4					n I
~	22		513	3 1081	8	-					N
		ete wi				2					s
2	23	Scale	502			<del>.</del>			_		98
		Scale	513			-		~			8
		Tank Scale (Gallons/Litres)	555	5 1645	90	-					
		All Complete with Y81 & Y246				2					
2	24		,			,					
			502	2 8109	8	<del>6-</del>					
		Indicator (used with dual gallon									
		and litre scale)	555	5 1646	8	-					000000000000000000000000000000000000000
2	25	Connector	502	2 8134	8	-					
		Complete with Y132				2					
2	26	Rubber Sealing Ring	502	2 8107	00	-			-		

When Ordering Always Quote

:- Machine No, Part No, Description and Quantity





Winget

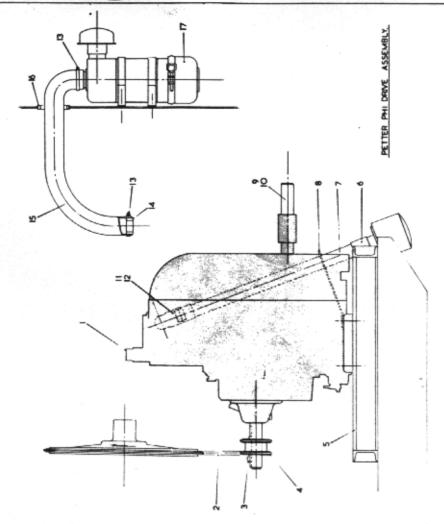
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Qty	-N4 ND	
Part No	354   1530   00     134   1061   24     300   1072   40     503   1746   00     513   2131   00     513   2131   00     513   2131   00     513   2130   00     513   2130   00     513   2569   00     240   3100   00     513   2569   00     220   2850   00     220   2850   00	
Description	Lister ST1 Engine Complete with Y43 & Y40 Complete with Y43 & Y25 Chain Key Engine Sprocket Engine Mounting Frame Complete with Y37 & Y38 Y147 & Y251 Socket Exhaust Pipe Exhaust Pipe Backnut Hexagon Exhaust Nipple Female Bend Manifold Adaptor Bush Purolator Air Cleaner	
Ref	- NW40 00000-000	

When Ordering :- Machine No, Part No, Description and Quantity





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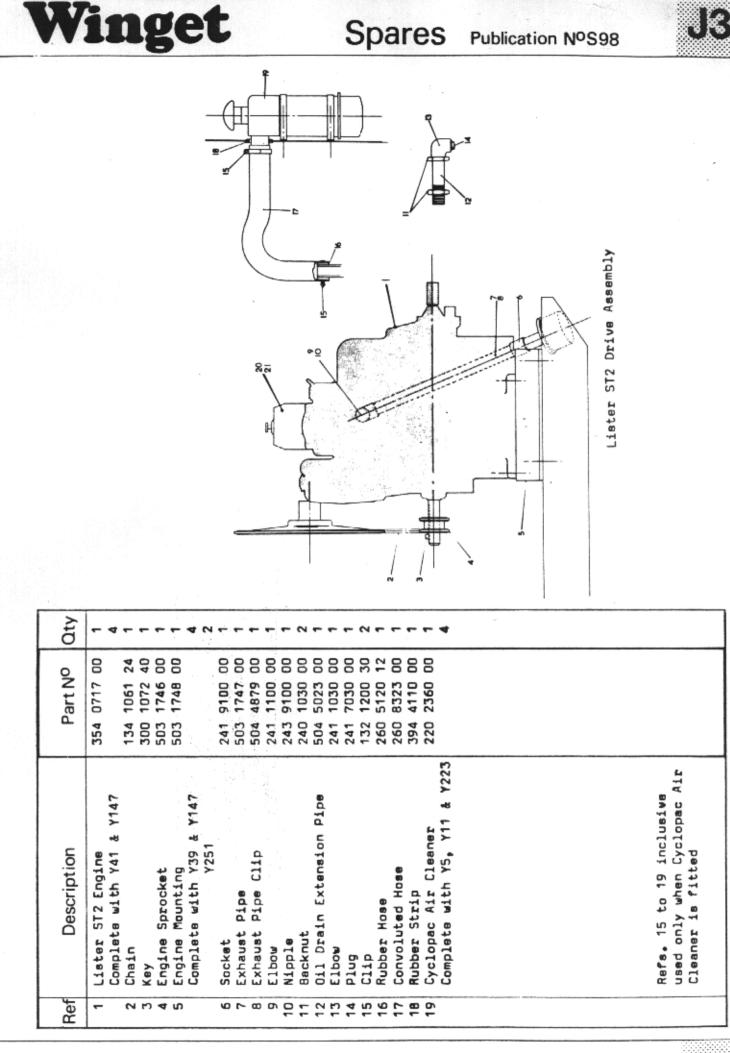
Description	Part N	oty
11 Engine With Y41, Y147 & Y251	354 0540 00	4
	134 1961 13	- •
Sorocket	0499	
	1162	-
with Y39, Y147 & Y251		80
	241 9080 00	-
	9098	-
Clip	4879	•
Shaft Extension	502 8334 00	
γ70		
	1001	-
	Dan/	
		- (
	1200	2
	5120	-
Hose	8322	-
	4110	-
181	220 2290 00	-
Y5, Y11 & Y223		4
enthen Lock 64		
when Cyclopac Air fitted		

J2

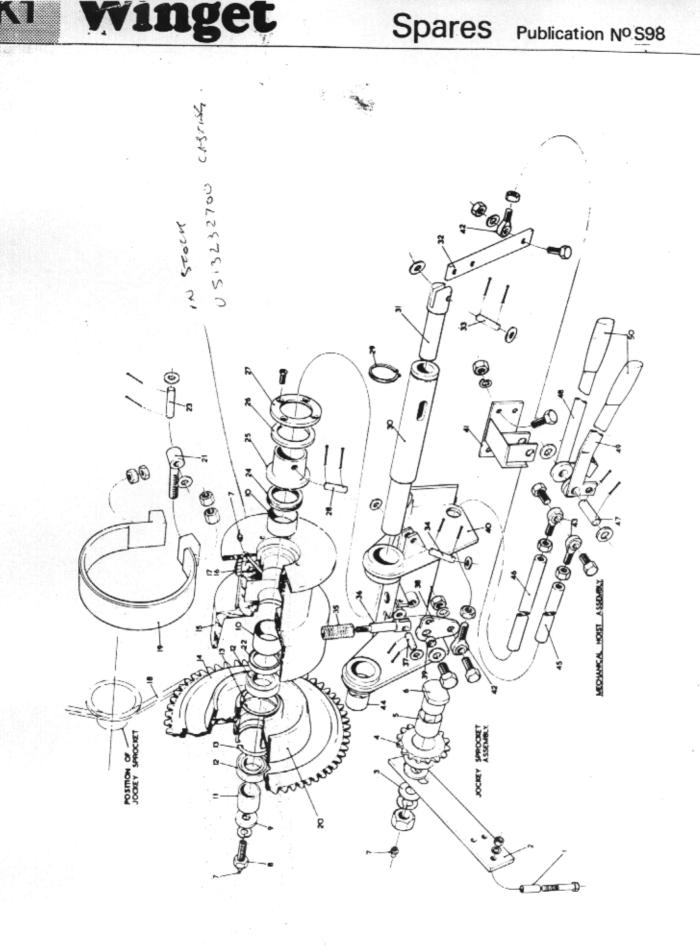
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When Ordering :- Always Quote

Machine No, Part No, Description and Quantity



When Ordering :- Machine No, Part No, Description and Quantity



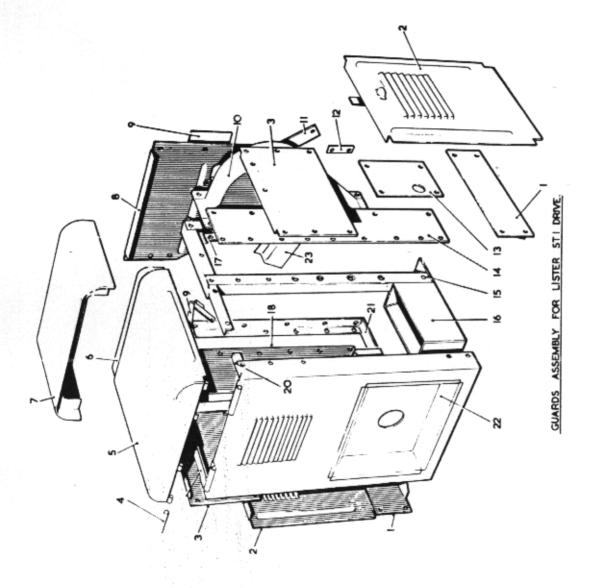
When Ordering :- Always Quote

				1				and and the second
Ref	Description	Part N <sup>o</sup>	Otv		Ref	Part No	0tv	V
			T					V
-	-		8	33	Operating Shaft Pin	513 2347 00	-	ł
(1	Jockey Support	2398	8		Complete with		2	İ
	Complete with Y25, Y113 & Y226		'n	34	4 Clutch Lever Pin	513 2348 00	-	1
63	Jockey Washer		00		Complete with Y245 & Y263		2	1
4	Jockey Sprocket	2383	00	35	5 Disc Springs	420 4270 00	24	ł
ŝ	Bush	8031	00	36	5 Brake Operating Rod	513 2344 00	-	
9		513 2385	00				-	5
	Complete with Y123 & Y231		-	37	7 Fork End Pin	513 2351 00	-	9
-	Nipple	1020	20 3		Complete with Y244 & Y262	-	2	{
80	Special Screw	513 2336	8	38	Brake Release Lever	513 2436 00	-	t
	Complete with Y232		-		Complete with Y92 & Y241		-	
9	Retaining Washer	513 2337 (	8	39	9 Distance Piece	513 2345 00	<del>.</del>	
5		112 8029	00 2	4	0 Winch Bracket	513 2435 00	-	
5	Locating	513 2338	00		Complete with Y46, Y120 & Y230		2	
12		102 8280	20 2				-	S
5	Circlip	3190	00	4	1 Hand Lever Bracket	513 2443 00	-	p
14		513 2328 (	00		Complete with Y92, Y120 & Y230		4	a
15		513 2327 (	1	42		383 2510 00	2	r
	Complete with Y206		8	-	Complete with Y137, Y47, Y120 & Y230		~	e
16		447 5590 (	00	43	Rod End	383 2510 00	2	S
17	Ball	477 3200 (	00		Complete with Y91 & Y137		2	
18	Chain	9111	22 1	44	4 Bearing Spacer		-	Pu
19	Brake Band	2346	00	45	5 Brake Pull Rod	513 2437 00	-	ıbl
20	Clutch Lining Complete with Rivets /	1010	60	46	5 Clutch Pull Rod	513 2438 00	-	lica
21	Brake Adjuster	513 2419 (	60	47	7 Hand Lever Pin	513 2331 00	-	ati
	Complete with Y120 & Y138		-		Complete with Y245 & Y263		6	or
22	Oil Seal	1840	00	48	Brake	2439	-	1 I
23	Brake Fixing Pin	513 2349 (	00	49	Hoist		-	No
	Complete with Y244 & Y626		2	ŭ	0 Hand Grips	264 7080 00	2	s
24	Bearing	1640	00				-	98
25	Thrust	2340	00		~			3
26	Thrust Pad	2354	00					
27	Thrust Plate	513 2341 (	00					
	Complete with Y181		4					
28	The st	513 2353 (	00					4
	Complete with Y262		2					1. A.
29	Circlip	142 3290 (	00				-1982 	000000000000000000000000000000000000000
50	Main Shaft	2329	00				1500	ſ
5			00			-		
32	Clutch Lever	2332						

When Ordering Always Quote

:- Machine No, Part No, Description and Quantity





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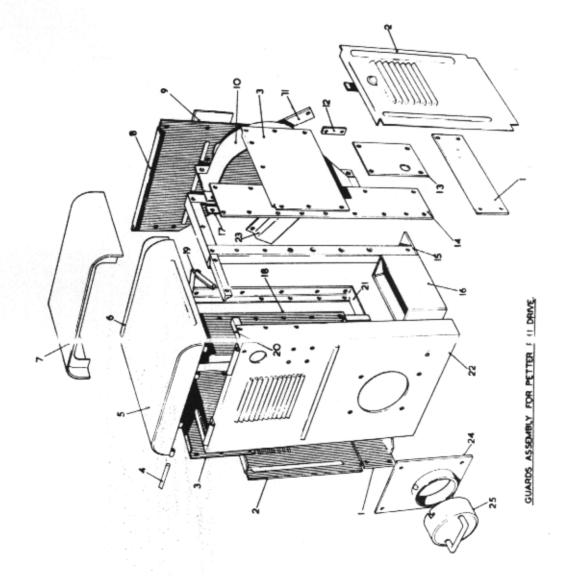
Winget

Spares Publication NºS 98

ш	Ref Description	Part N <sup>U</sup>	aty	Ref	Description	Part No	đ
	1 Housing Lower Side Plate	503 1075 00	8	20	Housing Stiffening Angles	504 5503 00	-
	Complete with Y8, Y112 & Y224		80	21	4	503 1078 00	-
	2 Side Panel	1076	2		Complete with Y10, Y112 & Y224		ю
	Housing Upper	503 1082 00	2	22	Engine Front Guard		-
	Complete with Y8, Y112 & Y224		16	23	Inner Chain Guard	1995	-
		502 8137 00	-		Complete with Y8, Y112 & Y224		4
			2				18
	5 Engine Top Cover	8104	-				
		502 8089 00	-				
			2				
	7 Water Tank Mounting	503 1081 00	-				
	Complete with Y10, Y112 & Y224		9				
	B Housing Rear Panel	503 1083 00	-				
	Complete with Y8, Y112 & Y224		2				
			2				
	9 Blanking Plate	502 8589 00	-				
	Complete with Y8, Y112 & Y224		2				
-	10 Chain Wheel Guard	503 1073 00	-				
	Complete with Y8, Y112 & Y224		ŝ				
	Y78 & Y224		ۍ ۱				
-	11 Rear Panel Attachement Plate	502 9765 00	-				
	Complete with Y10, Y112 & Y224		5				
	Y79 & Y224		4				-
-	12 Rear Panel Retainer	502 9761 00	-				
	Complete with Y10, Y112 & Y224		2				
-	13 Jockey Guard	502 8091 00	-				
	Complete with Y78 & Y224		4				
~	14 Cover Plate	503 1079 10	-		<b>a</b>		
;			4				
-	Ulscharge Side Support Angle	00 4/07 CIC					
-	LOMPLETE WITH YIU, YIIZ & TZZ4	502 8360 00	n •				
-		0000	- (				
1	CUMPLETE WITH TIUP TILL & TZZ4	501 1080 00	N •			*E	
- <b>c</b>		1070					1
			- α				
	V180 - Y12 & Y224		•				- , 23
-	19 Engine Cover Stay	502 8174 00					313(1) -
			4				2148
	٢3		-				1984

When Ordering Always Quote

:- Machine Nº , Part Nº, Description and Quantity



When Ordering :- Always Quote

2 Winget

Ref	Description		Part N <sup>O</sup>	aty		Ref Description	Part No	Qty	
-	Housing Lower Side Plate	50	503 1075 00		20	) Housing Stiffening Angles	504 5503 00	-	- 14
	Complete with Y8, Y112 & Y224			80	21	Charge Side Support	1078	-	
2	Side Panel	503	3 1076 00	-		Complete with Y10. Y112 & Y224		*	
'n	Housing Upper Side Plate	503	3 1082 00		22	Engine Front Guard	503 1074 00	-	1
	Complete with Y8, Y112 & Y224			16	23		1995	-	Service
4	Hinge Rod	502	2 8137 00	-				•	4.0%
	Complete with Y257			2	24	Crenkshaft Guard	502 8108 00	•	
ŝ	Engine Top Caver	502	2 8104 00	-		_			
ø		502	2 8089 00	-	25	Cap for Crenkshaft Exte	501 3983 00	•	
	Complete with Y8, Y112 & Y224			2					
~	Water Tank Mounting	503	3 1081 00	-					199
	Complete with Y10, Y112 & Y224	: _: _:	ist manufacture	9					
æ	_	503	3 1083 00	-			-		1949
	Complete with YB, Y112 & Y224			~					220
	Y78 & Y224			2					100
6		502	2 8589 00	-					1
1	Complete with Y8, Y112 & Y224			2					
<b>p</b>	Chain Wheel Guard	503	503 1073 00	-					-
	Complete with Y8, Y112 & Y224			ŧ۵					
	Y78 & Y224			ŝ					
:	Rear Panel Attachment Plate	502	9765 00	-					
	Complete with Y10, Y112 & Y224			n				:	1
	Y79 & Y224			4					1
12	Rear Panel Retainer	502	9761 00	-					
	Complete with Y10, Y112 & Y224			2					
5	Jockey Guard	502	8091 00	-					
	Complete with Y78 & Y224			4					
4	Cover Plate	503	1079 10	-		* *			
	Complete with Y180, Y112 & Y224			4					
5	Discharge Side Support Angle	503	1077 00	-					
	Complete with Y10, Y112 & Y224			n		-			
16	Tool Box	502	8360 00	*-					
	Complete with Y10, Y112 & Y224			0					
17	Support Member	503	1080 00	-					
18	Charge Side Cover Plate	503	1079 20	-					-
	Complete with Y8, Y112 & Y224			80					
	Y180, Y112 & Y224			4					~
19	Engine Cover Stay	502	8174 00	-					
	Complete with Y130 & Y237			4					
-	43			-			-		

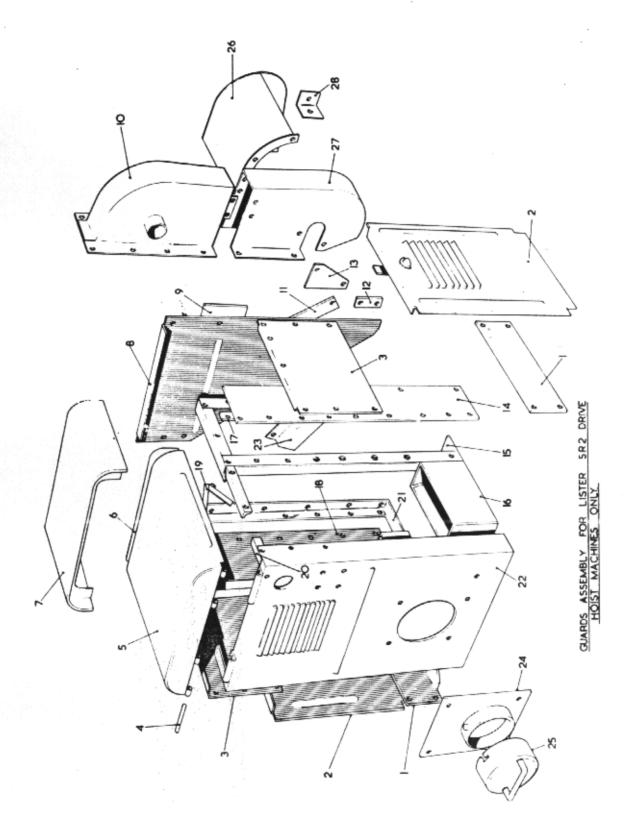
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:- Machine Nº , Part Nº, Description and Quantity



# Spares Publication Nº 598



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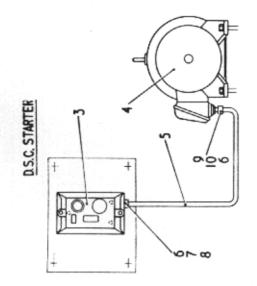
Machine No, Part No, Description and Quantity

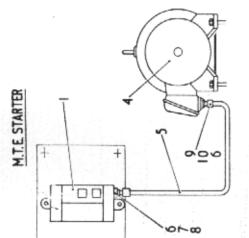
L			F	L			Γ	
Œ	Ref Description	Part N <sup>o</sup>	Qty	Ref	Description	Part No	Oty	Ŵ
	1 Housing Lower Side Plate	503 1075 00	2	20	Housing Stiffening Angles	504 5503 00	-	X
			80	21	Side Support	1078		Ì
	2 Side Panel	503 1076 00			e with Y10.			1
		503 1082 00	2	22		503 1074 00	) -	1
	Complete with Y8, Y112 & Y224		16	23	Inner Chain Guard	1995		Y
	4 Hinge Rod	502 8137 00	-		Complete with Y8. Y112 & Y224		4	
			2	24	Crankshaft Guard	503 1769 00	-	{
	5 Engine Top Cover	8104	-		Complete with Y7, Y112 & Y224		4	2
		502 8089 00	-	25	Cap for Crankshaft Extension	501 3983 00	-	ł
			2	26	Hoist Guard	2402	-	t
_	7 Water Tank Mounting	503 1081 00	÷-,		te wit		n	
			0	27	Chain Guard over Hoist	513 2401 00	-	100 C
	_	503 1083 00	-		Complete with Y74 & Y223		4	4
	Complete with Y8, Y112 & Y224		~		Y79 & Y224		2	
			2		Y80, Y112 & Y224		2	S
	9 Blanking Plate	502 8589 00	-			-	-	p
			2	28	Fixing Bracket	512 2384 00	-	a
-		513 2400 00	-		Complete with Y80. Y112 & Y224		~	ır
	Complete with Y80, Y112 & Y224		4				1	e
			4					S
-		502 9765 00	-					;
	Complete with Y10, Y112 & Y224		n				1	Pı
	Y79 & Y224		4				-	ub
12		502 9761 00	-					lic
	Complete with Y10, Y112 & Y224		2					at
5		513 2460 00	-					io
	Complete with Y74 & Y223		2					n
14		503 1079 10			* -			N
	Complete with Y180, Y11		4					s
10	Discharge Side Support A	503 1077 D0	-					9
			19					в
0		502 8360 00	-					
			2					
17		503 1080 00	•					
18	8 Charge Side Cover Plate	503 1079 20	7-					
			80					
			4					000000000000000000000000000000000000000
19		502 8174 00	-					
	Complete with Y130 & Y237		4					
	52		1					

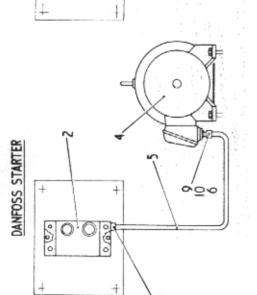
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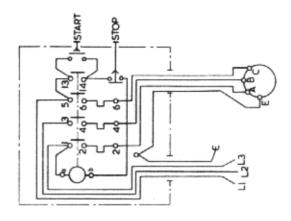
:- Machine Nº , Part Nº, Description and Quantity

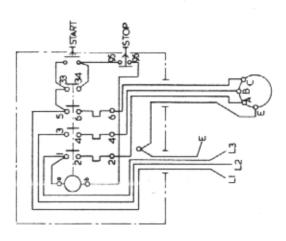
Spares Publication NºS98

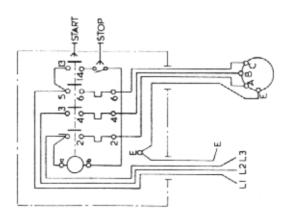












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Machine No, Part No, Description and Quantity

# Winget

# Spares Publication NºS98

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Qty	
Part No	
Description	
Ref	
Qty	
Part N <sup>O</sup>	208   3996   00     208   3985   20     207   8180   22     208   3987   00     208   3985   01     208   3985   01     208   3985   01     208   3985   01     192   9280   03     207   8180   02     208   3995   40     192   9280   44     207   8180   43     207   8180   40     192   9280   44     207   8180   43     208   3995   40     131   7700   10     131   5700   00     131   5120   01     131   5120   01     131   5120   01
Description	MTE Starter Contactor Contactor 0/L Unit v96, v124 & v233 Danfoss Starter complete with: Case Contactor 0/L Unit v290, v124 & v233 V290, v124 & v233 Complete with: Case Contactor 0/L Unit v291, v124 & v233 Complete with: V43, v119 & v226 Pliable Conduit Coupling Coupling Locknut Brass Bush Reducing Socket (Newman Motor only) Reducing Socket (Newman Motor only)
Ref	1 0 m 4 moreon

When Ordering Always Quote :- Mac

:- Machine Nº , Part Nº, Description and Quantity

# Winget Fastenings

Ref	Part	No		Ref	Pa	rt N <sup>o</sup>	Ref	Par	t N <sup>O</sup>
	Hex Hd I	Bolte		¥51	460 50	50 22	·***	Looknut	
								Locknuts	
¥1	460 5040						Y130		
Y2 Y3	460 5040 460 5040						Y131	302 5060	
Y4	460 5040						¥132		
Y5	460 5050				Hex H	d Screws	¥133	1	
Y6	460 5050			¥70	418 35		Y134	330 5506	
¥7	460 5060			Y71	418 35		Y136		
78	460 5060			¥72	418 35		¥137		
¥9	460 5060			¥73	418 35		Y138	330 6120	
10	460 5060			¥74	418 35		Y139		
Y11	460 5060			¥75	418 35		Y140		
112	460 5060			176	418 35		Y141	302 5050	
Y13	460 5060			¥77	418 35				
Y14	460 5060			Y78	418 35				
Y15	460 5060	24		¥79	418 35				·
Y16	460 5060	26		Y80	418 35				
117	460 5060	30		Y81	418 35	06 06		D: N	
Y18	460 5060			Y82	418 35	06 08		Binx Nut	IS
Y19	460 5080		5	Y83	418 35	06 12	¥145	335 7604	00
120	460 5080			Y84	418 35	08 06	¥146	335 7606	00
Y21	460 5080			Y85	418 35		¥147	330 3608	00
Y22	460 5080			Y86	418 35		¥148	330 3604	00
Y23	460 5080			Y87	418 35				
Y24	460 5080			Y88	418 35				
Y25	460 5080		:	¥89	418 96				
Y26 Y27	460 5100 460 5100			Y90	418 25		-		
Y28	460 5100			Y91	405 61			Skt Hd (	Capscrew
Y29	460 5120			Y92 Y93	405 61		VAEE	1	
Y30	460 5160		$1 \le 1$	Y94	418 25		¥155 ¥156	404 7504	
Y31	460 5160			Y95	418 35 418 35				
¥32	460 3504			Y96			Y157 Y158	1	
Y33	460 3506			Y 97	405 00		Y159		
Y34	460 3506						1109	404 7001	00
Y35	460 3506								
¥36	460 3508		283		Hex N	uts			
Y37	460 3508			Y110	331 85	04 00			
Y38	460 3508	14		¥111	331 85				-
Y39	460 3508			¥112	331 85			Csk Hd	Screws
Y40	460 3508			Y113	331 85		¥170		
Y41	460 3508			Y114	331 85		¥171	400 2510	14 20030
¥42	460 3508			¥115	331 85				
Y43	460 3508		·	¥116	342 91				
Y44	460 3508			Y117	330 35				
Y45	460 3510			Y118	330 35				
Y46	460 5612			Y119	330 35				
Y47	460 5612			Y120	330 12		1	Skt Lid	Cicle Sorous
Y48	460 3506			¥121	330 35			1	C'sk Screw
Y49 Y50	460 5060 460 5050			¥122 ¥123	330 35 330 12		Y180 Y181		
100	+00 303U				330 12	211 1111			7.6



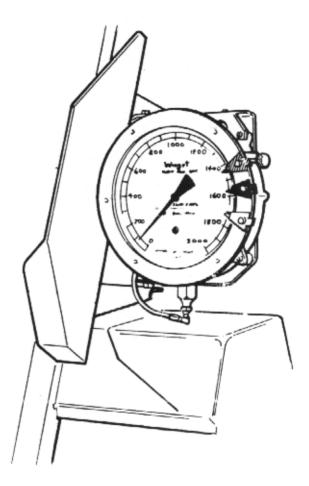
# Winget Fastenings

Ref	Part Nº	Ref	Part N <sup>o</sup>	Ref	Part N <sup>o</sup>
	Cone Pt Skt Setscrews		Spring Washers		
Y186	403 5608 08	Y221	464 3020 00	Y260	353 3062 00
¥187	403 5608 10	Y222	464 3040 00	Y261	353 3071 60
Y188	403 5605 04	Y223	464 3050 00	¥262	353 3203 20
		¥224	464 3060 00	Y263	353 3204 25
방송 같은 것		¥225	464 3070 00	Y264	353 3072 20
음양 같이		Y226	464 3080 00	Y265	353 3062 00
		Y227 Y228	464 3100 00 464 3120 00	¥266	353 3048 00
	Cup Hd Bolts	Y229	464 3160 00		
Y190	461 5580 16	Y230	464 3620 00		
		Y231	464 3700 00		
		Y232	464 3660 00		Ming Nuto
		Y233	464 3505 00		Wing Nuts
	Flat Pt	Y234	464 350B OD	Y271	335 1506 00
	Skt Setscrews				
Y196	403 5740 40				
Y197	403 5750 0		Plain Washers		
Y198	403 5760 10	Y236	463 3020 00	· .	Fibre Washers
		Y237	463 3040 00	-	
		Y238 Y239	463 3080 00 463 3100 00	Y276	463 6040 00
	C D.	Y240	463 3120 00		
	Cup Pt	Y241	463 3160 00		
	Skt Setscrews	Y242	463 3200 00		
Y206	403 7508 12	Y243	463 3240 00		Slotted Nuts
Y207	403 7510 12	Y244	463 3312 00	1000	
		Y246	463 3060 00	Y286	330 7506 00
		18 A. A			
	C'sk Hd Bolts				Ch Hd Screws
Y211	그 방법 말을 한 것이 한 것이 없다. 그 같은 것이 같은 것이 같은 것이 같이 했다.		Taper Washers	¥290	407 2705 45
1211	400 2510 14	NOFO		Y291	407 2705 25
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	111 JONO 10		Split Pins		
		¥256	353 3028 00		
		Y257	353 3038 00		
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Loadcell & Gauge

# OPERATION MAINTENANCE & Spare Parts Manual

Winget Loadcell & Gauge

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# Winget Loadcell & Gauge

#### GENERAL

The loadcell and gauge is a hydraulic method of recording pressure exerted on the loadcell button, by the batch in the weigh hopper.

The weigher gauge is mounted in a box on the side of the mixer and connected by a hydraulic pipe to the loadcell situated under the weigh hopper.

The gauge calibration differs to the mixer on which it is fitted, the adjustable coloured pointers mounted on the rim of the gauge can be set by the operator, to the aggregate proportions required. A protective lid is provided for the gauge box to prevent damage when not in use. The loadcells are of the 10 sq. in. (64.5 sq. cm.) type and a load/pressure ratio of 10:1. The loadcell and gauge is a closed circuit and any leakage from anywhere in the system will cause incorrect reading.

A screw is provided for zeroing the weigh gauge needle to take into account temperatures and variations in the weight of the hopper due to build-up of materials. Ensure that at all times there is a minimum of 2 in, or 50 mm. clearance between the hopper bottom and the ground.

#### WEIGH GAUGE

If by any chance a loaded hopper is dropped on to the loadcell by accident, causing undue shock to the gauge, this could loosen the pointer needle which is soldered on to its spindle. If this happens, remove the gauge from the loadcell pipe and release the front glass. Rotate the needle pointer gently to check if the solder connection has become loose. As shown in Fig. 1. If so, re-solder carefully. To ensure correct position for re-soldering pointer. Set the zeroing knob at a mid-position, and solder the pointer back from zero, the combined weight of cradle and hopper. Make sure that surplus solder does not run into the small bearing behind the needle pointer.

#### OSCILLATION

If the gauge needle pointer should oscillate unduly, first remove the back plate, by removing six Allen screws. For identification purposes, the only parts requiring adjustment for oscillation are painted blue. Loosen the blue locknut (1), as shown in Fig. 1, and turn the hexagon headed screw (2) below in a clockwise direction, until the pointer oscillation is

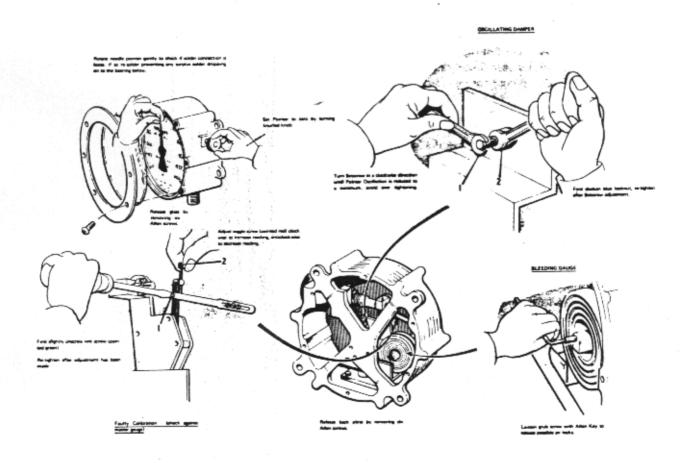


FIG. 1

GAUGE ADJUSTMENT

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### Loadcell & Gauge

reduced to a minimum. At the same time avoid excessive tightening of the hexagon headed screw. A known weight should now be added to ensure that application of the damper has not affected weight reading. If the reading has been affected, this will indicate that the hexagon headed screw has been tightened down too far, so it should be released slightly until the reading becomes accurate. Remove the weights and check the pointer returns to zero. Re-tighten the blue locknut and refit back plate.

#### NOTE

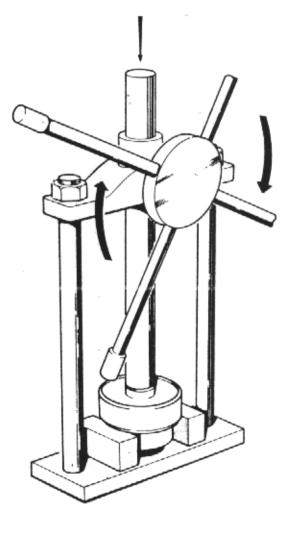
The damper must not be applied too tightly, for this may cause movement wear and affect the calibration of the pointer.

#### CALIBRATION

If the calibration is found to be inaccurate, the pointer should be adjusted against a master gauge, as shown in Fig. 1. For identification purposes, the only parts requiring adjustment for calibration are painted red and green. First, slightly loosen link screw (1) painted green, then adjust knurled toggle screw (2) painted red, by hand. Turn clock-wise to accelerate the reading and anti-clockwise to decrease reading. This should be done on a gauge test rig or equivalent. After correct adjustment has been made, retighten link screw (1). Other screws must not be interfered with

#### LOADCELL REPAIR

The loadcell itself can be made inoperative if a loaded hopper is dropped by accident on to it, or if aggregate were tipped from a dumper directly into the hopper. Both could cause the top half to turn over at an angle. This means that at least one "O" ring has been damaged. When this happens, the loadcell must be disconnected from the gauge and removed from the machine and the damaged rings replaced. There are two methods used for opening the loadcell. Firstly, by a press. Block up the loadcell on the base of the press using packing under the floating sleeve, this is to ensure that the body will move downwards, thus breaking the seals when pressure is applied to the loadcell button. Secondly, the diameter of the floating sleeve can be turned down on a lathe so as to reduce the thickness to approx. 010 in. (25 mm.) at which stage the rims of the floating sleeve may be broken away releasing the sealing rings and inner parts. Clean and check the condition of all parts. Renew sealing rings and re-assemble, clamp the body of the loadcell in the lathe and rotate at a slow speed. By using a steel bar gradually roll the rims of the floating sleeve, thus re-sealing the loadcell.



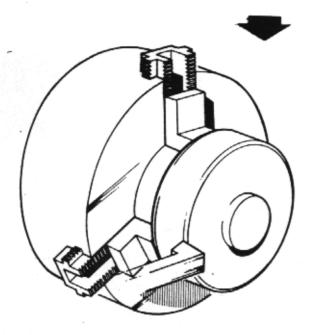
#### FIG. 2 PARTING LOADCELL BY PRESS

It is necessary when parting the Loadcell in the press, to ensure that the Floating Sleeve has been packed sufficiently to move downwards when pressure is applied to the Loadcell Button thus breaking the seals.

### Loadcell & Gauge

Alternatively the Floating Sleeve may be turned off in the lathe. First clamp the body of the Loadcell in the chuck and by taking light cuts, reduce the diameter by 0-100 ins. or 2-50 mm. At this stage it should be possible to split the outer skin releasing the inner parts.

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#### FIG. 3 PARTING LOADCELL BY LATHE

Resealing the loadcell—with all parts assembled in position apply a coating of Goodyear "Pliobond" around the outside edge of sealing rings. Now clamp the loadcell body in the chuck and gradually roll both edges of the floating sleeve thus locking the inner parts in position.

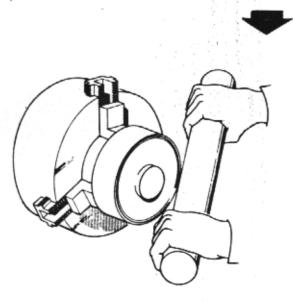
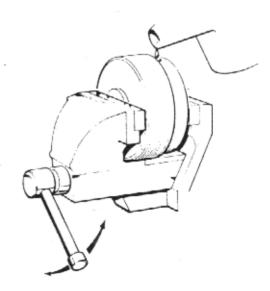


FIG. 4

RESEALING LOADCELL

#### **REFILLING LOADCELL**

The most efficient way of filling a loadcell and gauge, is by using a vacuum pump unit. This is normal practice. However, where this special equipment is not available, the operation can in some instances be carried out by hand. If care is taken, and the following procedure adopted: Place the loadcell in the vice with the button on one jaw, and the inlet for oil upwards, fill the loadcell with Wakefield Girling Brake and Clutch Fluid (crimson) and at the same time slightly compress the vice not more than Kein. or 1.60 mm., and let it return. Repeat this procedure several times. This will remove air bubbles, N.B. It must be remembered that when the loadcell is in use on the machine, the total amount of compression is less than Kein. or 1.6 mm. Therefore, when compressing this in the vice, it must be remembered to under no circumstances exceed Xe in. or 1.6 mm., otherwise damage to the "O" ring seals may occur. It is advised before completely filling the loadcell to remove it from the vice, hold it in your hand with the button downwards, give a series of taps on the base of the loadcell with the other hand, as shown in Fig. 6 This will remove all remaining air locks. Replace the loadcell in the vice and compress a few more times. Continue filling to the point of overflow, Remove from the vice and place to one side with the oil filling end upwards.

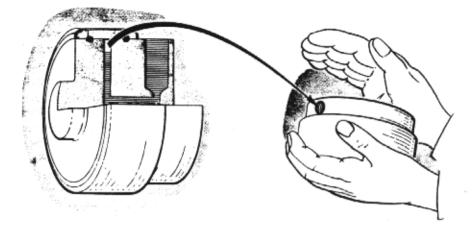


#### FIG. 5 REFILLING LOADCELL

Air bubbles may still be present in fluid. To remove secure Loadcell in vice with union hold upwards. Fill with oil. Move vice handle compressing Loadcell not more than  $\mathcal{V}_{\mathbf{f}}$ , then release. Repeat this process several times.



### Loadcell & Gauge



#### FIG. 6 RELEASING AIR FROM LOADCELL

During the Loadcell Filling Operation an air lock usually occurs in the fluid chamber. This will cause inaccurate weigh dial readings if allowed to remain.

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### To release Air Lock place Loadcell in hand and give a series of light taps with the other hand.

Replace Union and Pipe

#### FIG. 7

#### **REMOVING AIR FROM PIPE**

and the fluid will be drawn up the tube. Ensure that the tube is kept upright until fitted to gauge, so that fluid will not run out.

Once again it is important to remove all air from pipe. Screw the vice up until fluid protrudes from end of pipe. Placing the pipe end in an improvised cup filled with fluid, release pressure on Loadcell

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### Loadcell & Gauge

#### GAUGE

Due to a vacuum the gauge will invariably hold its quota of oil, but in any case, lay the gauge on its face and fix a right-angle adaptor to the oil inlet and fill with Wakefield Girling Brake and Clutch Fluid (crimson), shown in Fig. 8 open the bleed screw situated on the middle coil of the Bowden tube shown in Fig. 1. The weight of the fluid will expel any trace of air. Care should be taken to avoid oil dripping onto the back of the dial face. Ensure that the bleed screw is correctly tightened.

#### TURE

The tube requires more careful attention to make sure that all air is extruded from the tube when being filled with oil. One method of dealing with this is to first screw the end of the tube to the loadcell, again holding the loadcell in the vice as shown in Fig. 7 Screw the vice up until oil reaches

the top of the tube. Place the pipe end in an improvised cup filled with fluid. Release pressure on the loadcell and the fluid will be drawn up the tube. Ensure that the tube is kept upright until fitted to gauge. Then join the top and of the tube to the gauge making sure that both unions on the gauge and tube are full of oil.

#### REFITTING

When the filling operation is complete, the gauge and loadcell may be refitted to the machine and tested with known weights, provided the adjusting screws in the gauge which control calibration have not been moved, the gauge should register correctly. A zeroing knob is provided on the side of the gauge, as shown in Fig. 1, this should be adjusted with the hopper empty and down on the loadcell. Check there is a clearance between the hopper and ground before zeroing.

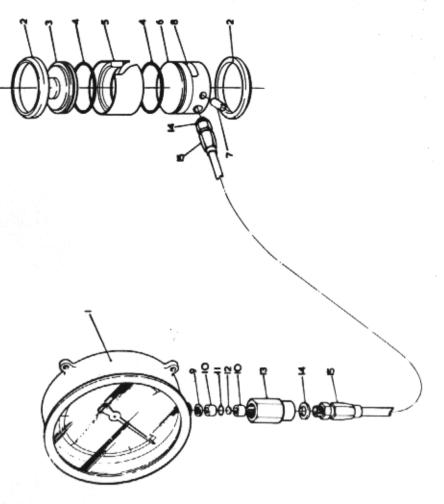
Open Bleed Screw on middle coil of Bourbon Tube. Re-tighten after air is expelled.

Care should be taken to avoid oil dripping onto back of dial face. With right angle adaptor fitted, proceed to fill with Girling Brake Fluid (crimson).

FIG. 8 REFILLING GAUGE

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### Spares Publication NºS98



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When Ordering :- Always Quote

Machine No, Part No, Description and Quantity

yclopac

### AIR CLEANER SERVICE PARTS

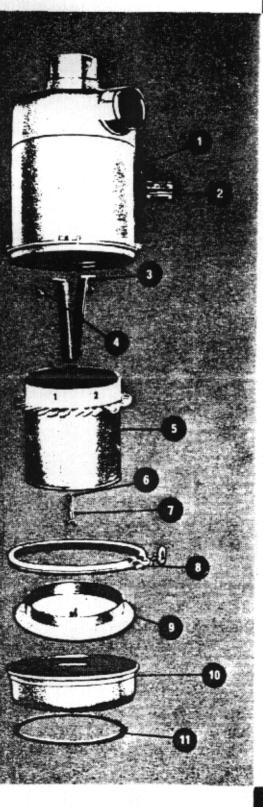
### FWA

	DA 128	DA 127	DA 129	DA 131	DA 141		
1 Body Assy.	DU 807	DU 798	DU 817	DU 898	DU 1236		
2 Instruction Transfer	DU 669A						
3 Yoke	•	•	•	•			
4 Lockwasher Screw				•			
S Element Assy	DU 664	DU 750	DU 778	DU 879	DU 1233		
6 Gasket Washer	DU 658	DU 658	DU 658	DU 760	DU 260		
7 Wing Nut	DU 657	DU 657	DU 657	DU 257	DU 257	-	
8 Clamp Assy.	DU 665	DU 749	DU 420	DU 882	DU 481		
9 Baffle	DU 641	DU 747	DU 766	DU 880	DU 1207		
10 Cup Assy.	DU 666	DU 748	DU 769	DU 881	DU 1208		
11 Cup Gasket	None	None	None	DU 876	DU 314	-	

\* Not a Service Part.

		FWG				
DA 121	DA 122	DA 123	DA 130	DA 140	DA 150	
DU 667	DU 753	DU 773	DU 877	DU 1205	DU 1517	
DU 669A	DU 669A	DU 669A	DU 669A	DU 669A	DU 669A	
•	•		•	•	•	
•	•	•	· ·	•	•	
DU 444	DU 750	DU 770	DU \$79	DU 1206	DU 1518	
DU 658	DU 658	DU 658	DU 260	DU 658	DU 658	
DU 657	DU 657	DU 657	DU 257	DU 657	DU 657	
DU 665	DU 749	DU 420	DU 882	DU 481	DU 977	
DU 641	DU 747	DU 766	DU 880	DU 1207	DU 1519	
DU 666	DU 748	DU 769	DU 881	DU 1206	DU 1520	
None	None	None	DU 876	QU 314	DU 223	
	DU 667 DU 669A • DU 669A DU 665 DU 655 DU 665 DU 665	DA 121     DA 122       DU 667     DU 753       DU 667A     DU 669A       •     •	DA 121     DA 122     DA 123       DU 667     DU 753     DU 773       DU 667     DU 753     DU 773       DU 667     DU 667A     DU 669A       0     *     *       *     *     *       *     *     *       DU 644     DU 750     DU 750       DU 658     DU 658     DU 658       DU 657     DU 657     DU 657       DU 645     DU 749     DU 766       DU 646     DU 748     DU 769	DU 667     DU 753     DU 773     DU 877       DU 667     DU 753     DU 773     DU 877       DU 669A     DU 669A     DU 669A     DU 669A       •     •     •     •       •     •     •     •       •     •     •     •       •     •     •     •       •     •     •     •       •     •     •     •       •     •     •     •       •     •     •     •     •       •     •     •     •     •       •     •     •     •     •       •     •     •     •     •       •     •     •     •     •     •       •     •     •     •     •     •       •     •     •     •     •     •     •       •     •     •     •     •     •     •	DA 121     DA 122     DA 123     DA 130     DA 140       DU 667     DU 753     DU 773     DU 677     DU 1205       DU 667     DU 753     DU 773     DU 677     DU 1205       DU 667     DU 669A     DU 669A     DU 669A     DU 669A       •     •     •     •     •       •     •     •     •     •       •     •     •     •     •       •     •     •     •     •       •     •     •     •     •       •     •     •     •     •       •     •     •     •     •       •     •     •     •     •       •     •     •     •     •       •     •     •     •     •       •     •     •     •     •       •     •     •     •     •     •       •     •     •     • <t< td=""><td>DA 121     DA 122     DA 123     DA 130     DA 140     DA 150       DU 667     DU 753     DU 773     DU 677     DU 1205     DU 1517       DU 667     DU 658     DU 669A     DU 669A     DU 669A     DU 669A     DU 669A       OU 649A     DU 669A     DU 669A     DU 669A     DU 669A     DU 669A     DU 669A       *     *     *     *     *     *     *     *       DU 644     DU 750     DU 770     DU 877     DU 1206     DU 1518       DU 658     DU 658     DU 260     DU 658     DU 658     DU 658     DU 657       DU 655     DU 749     DU 420     DU 892     DU 481     DU 977       DU 641     DU 747     DU 766     DU 880     DU 1207     DU 1519       DU 646     DU 748     DU 769     DU 881     DU 1208     DU 1520</td></t<>	DA 121     DA 122     DA 123     DA 130     DA 140     DA 150       DU 667     DU 753     DU 773     DU 677     DU 1205     DU 1517       DU 667     DU 658     DU 669A     DU 669A     DU 669A     DU 669A     DU 669A       OU 649A     DU 669A     DU 669A     DU 669A     DU 669A     DU 669A     DU 669A       *     *     *     *     *     *     *     *       DU 644     DU 750     DU 770     DU 877     DU 1206     DU 1518       DU 658     DU 658     DU 260     DU 658     DU 658     DU 658     DU 657       DU 655     DU 749     DU 420     DU 892     DU 481     DU 977       DU 641     DU 747     DU 766     DU 880     DU 1207     DU 1519       DU 646     DU 748     DU 769     DU 881     DU 1208     DU 1520

\* Not Service Part.







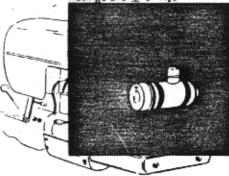
FWA and FWG cleaners can be mounted either horizontally or vertically.

Air	* Air Flow Rating												
Cleaner Model	At & HIO		8	c	D	E	F	G	н	к -	L	м	Approx Wt. Lbs
DA 128	80	54	1435	17	2	2	4	1#	3+	84	1	64	6
DA 127	110	61	17 3	214	2;	2‡	42	133	37	842	1#	72	8
DA 129	190	8	1833	212	3	3	6+	2,5	31	9+2	12	87	104
DA 131	290	10-2	18;	31	37	4	7+	2‡	4	7 👬	1±	11+	20
DA 14:	385	11+2	19¦	33	41	4	7+2	22	4	7六	11	13	28
													1
			1										

"Ratings are ± 1" H<sub>2</sub>O

Air	* Air Flow Ratin	* Air Flow Rating												
Cleaner Model	At 8" HIO			в	c	D	E	F	G	н	к	L	м	Approx. Wt. Lbs.
DA 121	95	신문	51	127	1	2	2	4	12	373	817	1	6	42
DA 122	140		61	134	1+2	24	24	41	11	37	8+2	13	7	64
DA 123	250		8	1433	1+2	3	3	6 <sub>1</sub> 4	12	33	97	12	87	94
DA 130	330		10	167	12	4	4	7;	2#	4	7 👬	11	11+	17
DA 140	450		11+2	1733	3 + 2	5	5	833	4::	4	10-1	11	13	29
DA 150	730		14	21+	21	6	6	10	5-	4	134	1	15+2	40 <u>‡</u>
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\*Ratings are ± 1" H<sub>2</sub>O

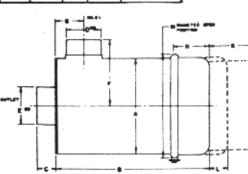


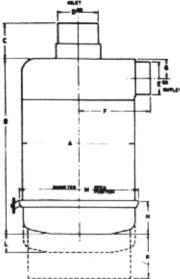
FWG CYCLOPAC installed horizontally on farm tractor.



FILTER CLEANER Detergent with carbon dissolving additive. Mix with water. Cleans any washable paper filter.

RESTRICTION INDICATOR Signal locks in view when filter element requires servicing. Mount on dash or cleaner ducting. (See separate leaflet.)





### 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