

OPERATION, MAINTENANCE & SPARE PARTS MANUAL

200/7 THL MIXER

HOMETRADE SPECIFICATION

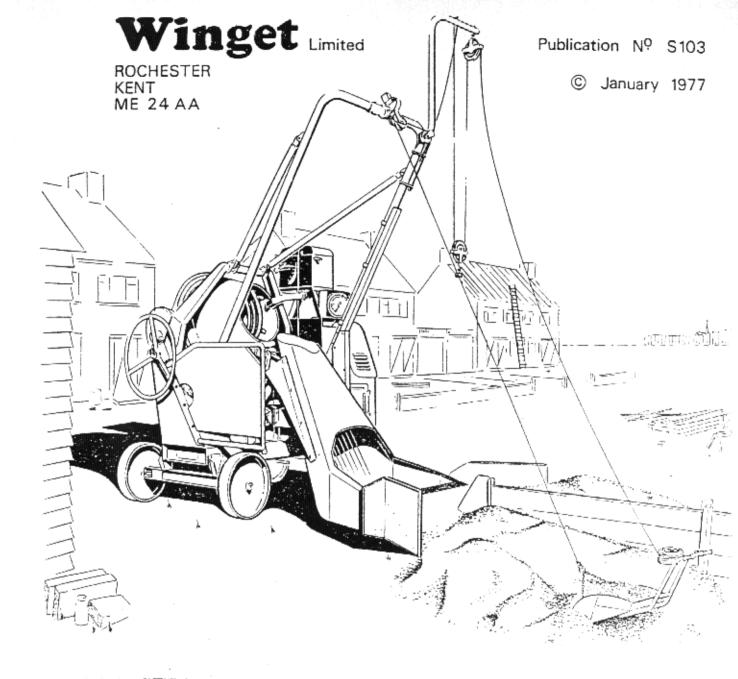
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Operation, Maintence & Spare Parts Manual

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

Winget

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

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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.

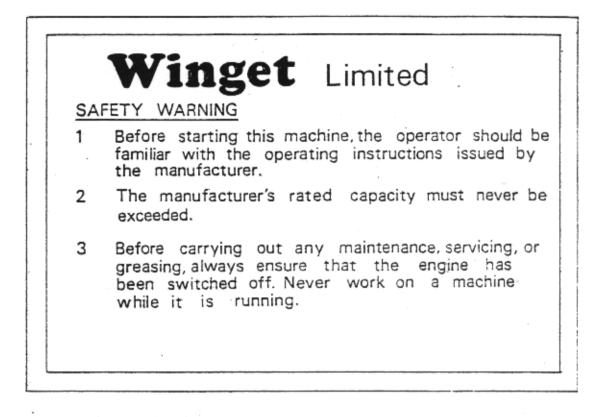
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Description & Operation

Winget SAFETY NOTES

Ensure that the label depicted below is located on your machine.



If the machine is repainted for any reason a replacement label must be obtained from Winget on Spare Part Number 50-46946.

NOTES FOR SAFE OPERATION

IMPORTANT:

Read the instructions in this handbook together with these notes, and satisfy yourself that you understand all the controls and their function before attempting to operate the machine.

2. BEFORE STARTING THE MIXER

Check: a) That all guards are in position and fitted correctly.

- b) All control levers are in neutral.
 - c) No one is in or on the machine.
 - d) On electric powered mixers, ensure that the power supply has been correctly connected by a qualified electrician and any trailing cable is protected from damage and not liable to be tripped over.

WHEN OPERATING THE MIXER

a) Do not allow unauthorized persons to climb on or have any part in the operation of the machine.

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- b) Do not climb on the machine yourself unless absolutely necessary and then:-
 - Use only the steps and platforms provided.
 - (ii) Keep your clothing clear of any moving parts.
- c) In the case of mixers fitted with loading hoppers, do not allow any person to walk, stand or lean under the hopper when raised.
- d) Where mixers are fitted with drag feeders, do not allow the rope to become snagged around any obstruction or person. Replace ropes as soon as badly frayed.
- Do not add fuel, hydraulic oil or lubricate the machine whilst it is running.
- f) If engine housing is fitted keep this closed whilst mixer is running.
- 4. MAINTENANCE AND REPAIRS

Before starting any work:-

- a) Stop the engine or switch off electric motor, isolate from mains supply and remove fuses.
- b) If working out of sight under the machine or in the drum, try to have a trained person standing by.
- c) Display a warning notice.
- d) Do not work under raised loading hopper unless it is securely chained or propped.
- 5. ON COMPLETION OF MAINTENANCE

Check: a) That the mixer functions correctly.

- (b) All guards are correctly fitted.
- c) All control levers are in neutrel position.

If you are in any doubt about the safe condition of your machine please consult Winget Limited Service Department.

INSTALLING YOUR MIXER ON THE SITE (See 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 stabilising jacks, attached to the front and rear axles, lower the stabilising jacks until they come firmly into contact with the timber, lock in position. Screw the two stabiliser bolts down onto 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 angine 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 LCWER position and allow the hopper to come down under its own weight. If a batch weigher is fitted, ensure at least 2" (SOmm) clearance between the base of the hopper and the ground to ensure accurate readings to be obtained.

It is necessary when a dragline is fitted to use a loading ramp or to erect a barrier of boards in front of the loading hopper so that materials may easily be tipped into it. This is particularly important when using a mixer fitted with a batch weigher, to prevent the build up of aggregate undermeath the hopper, as this will cause faulty batch weights to be given.

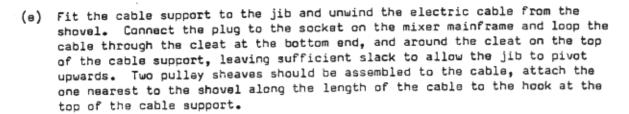
Assemble the portable feed apron, if one is to be used, placing it squarely in front of the mixer so that the hopper does not foul it when being raised or lowered. The horizontal rubber flap prevents material from falling between the hopper and ramp. Finally, stake the apron securely in position, using the four picketing lugs on the sides. Extend the centre position of the ramp to separate the aggregate by fitting boards.

TRANSPORTING THE MIXER

To reduce the overall height of the mixer, it is sometimes necessary to dismantle the dragline jib and remove the loading hopper from its cradle.

Assembling Dragline Jib (See Fig. 2)

- (a) If the jib has been split into two sections, assemble using the connecting tube with the balanced pulley block attached to it, bolt firmly together. Assemble jib tie rods to jib.
- (b) Insert a rod approximately 1" (25mm) diameter and 5 ft. 6" (1666mm) in length through the front edge of the hopper.
- (c) Place the jib in position and secure with the two jib pins. Support the top end of the jib on a trestle or something similar ensuring that the weight of the jib is resting on the trestle, and not on the winch quard.
- (d) Pull out the cable from the winch, remove the cable cleats and thimble and thread the cable around the three pulley sheaves on the jib, afterwards replacing the cable cleat and thimble. Connect the cable to the shovel ring.



- (f) Raise the hopper slowly, either by running the engine or turning it by hand until the hopper comes into contact with the jib, continue lifting until the jib tie rods can be located in the jib support lugs. Secure in position by tightening the two locknuts.
- (g) Lower hopper and remove temporary lifting rod from front edge.
- (h) Finally check that the two jib pins are in the locked position in their mounting brackets.

Dismantling Dragline Jib (See Fig. 2)

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- (a) Insert a temporary rod approximately 1" (25mm) diameter and 5 ft. 6" (1666mm) length through the front edge of the hopper, and raise the hopper until the rod comes into contact with the jib.
- (b) Slacken the two jib tie locknuts and lift the tie rods clear of the lugs on the jib support.
- (c) Slowly lower the hopper until the jib is in a horizontal position. Place a trestle or something similar at the front edge of the jib to take the weight.
- (d) Unfasten the wire rope from the shovel and remove the cleats and thimble from the rope. Start the mixer engine and depress micro switch on the shovel handle to operate the winch, to wind the rope back onto the drum, stop engine. Leave sufficient rope clear of the winch housing to enable it to be pulled out when assembling dragline. Replace cleats and thimble onto wire rope.
- (e) Unscrew electric control cable from its socket on the winch mounting bracket. Release the cable from the two cleats on the cable support and remove pulley sheave from its hook at the tip, coil cable onto stowage on shovel and secure pulleys. Remove cable support from the jib.
- (f) Withdraw the two jib pins from the jib fixing brackets on the mainframe to release the jib, replace pins.
 To further assist in transporting, the jib is made in two sections held together by a bolted connecting tube. Before dismantling the jib the tie rods must be detached by removing the two drop end pins.

Removing the Hopper

With the hopper down, slacken the eight bolts securing the hopper to its cradle. Remove the top six bolts and allow the hopper to pivot forward on the two remaining bolts to rest on the ground, finally remove the last two bolts. Replace the bolts in cradle to avoid loss.

Assembling the Hooper

Set the hopper in front of its cradle and locate the bottom two fixing holes, insert bolts and leave nuts finger tight. Lift the front edge of the hopper pivoting it on the two bolts, locate the remaining holes and insert the bolts. Finally tighten all eight bolts.

Lifting the Mixer

Two lifting eyes are provided for using crane hooks when loading for transporting.

On a non-dragline machine they are located, one in 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. On a dragline machine the hopper cradle position remains unaltered. The position of the second eye remains the same, but the eye is replaced by a reinforced hole in the dragline jib support bracket.

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

(a) Control

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

(b) To Raise Hooper

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.

(c) To Lower Hopper

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

WATER TANK (Fig. 3)

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. A sight glass in the side of the tank will enable the operator to see if the tank is full or still filling.

Filling the Tank

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

The float 'A' rests on the bottom of the float chamber and holds the trip lever 'B' against the pilot value 'C' to hold it open against the action of the spring 'D'. Water enters the tank at 'E' and lifts the diaphragm 'F' off its seat allowing water to flow into the tank. It also passes through the diaphragm at point 'G' and past the pilot value 'C' to enter the tank.

Incoming water passes down the transfer pipes 'H' and fills the airtight chamber 'J' until the water cover the end of the air pipe 'K'. When this happens no further water is admitted to the airtight chamber, instead the transfer pipes and float compartment flood until the float rises and allows the trip lever 'B' to disengage from the float cam 'P' allowing the pilot valve 'C' to close, assisted by the action of the spring 'D'. Pressure builds up in the pilot valve side of the diaphragm 'F' causing it to re-seat shutting off the incoming supply.

Discharging the Tank

When the mixing drum is moved into the 'CHARGE' position the rod 'L' is pulled downwards, this, through the linkage, causes the discharge valve 'M' to lift off its seat discharging the contents of the tank. The float cam 'P' 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 'L' is lifted by the return spring 'N'. The discharge valve 'M' is closed, the float cam 'P' moves into contact with the trip lever 'S' which opens the pilot valve 'C' to start filling the 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 top of the engine housing is connected by hydraulic piping to the loadcell mounted near the hopper lower arm pivot. The hydraulic circuit is primed and sealed on leaving the works and on no account should it be tampered with.



The gauge, calibrated from 0-1,200 lb. (0.500 Kg.) gives accurate indication of batch weights. The adjustable coloured pointers mounted on the rim of the gauges 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 improtant that the mixer is standing firm and level and that there is at least two inches (50mm) 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 loadcall. Hold the hopper control lever fully down for a few seconds until the gauge needle begins to move up to '0' then release. The hopper is then ready to load. If you cannot get an '0' 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 pointer to '0'.
- (d) Repeat, lowering the hopper three to four times to check that you obtain a consistent '0' reading.

DRAGLINE FEEDER (If Fitted)

The winch unit is mounted on the hopper side of the mixer, and is chain driven from the mixer engine. It is fitted with an electro-magnetic clutch which is controlled by a push switch on the shovel handle. The electrical circuit is energized by a 12 wolt dynamo driven by the engine, the output of the dynamo being controlled by a voltage regulator.

Operation

Rig the Mixer as shown in Fig. 2 and described on page 3. With the engine running, pull the showel back over the aggregate away from the mixer. Depressing the push-switch on the shovel handle will operate the winch clutch and start to drag the shovel towards the mixer. To stop the loaded shovel when it has reached the hopper, simply release the push switch and slip the contents of the shovel into the hopper.

After rigging the electric control cable, a trial run of the shovel may show that the slack of the electric cable is not taken up by the bottom free pulley as the shovel moves into the mixer. To prevent this increase the size of the weight on the bottom free pulley; if the pulley then comes too close to the ground wind a couple of turns of cable onto the stowage arms on the shovel.

BEFORE STARTING UP

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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. A sight glass, set in the side of the tank will indicate to the operator if the tank is full or still filling.

TO MIX CONCRETE

Set the coloured pointers on the weigher gauge (if fitted) to the aggregate proportion 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 then in the MIX position.

After allowing a short interval for mixing, the concrete in the drum should be discharged. Any dumper of suitable capacity, and having a loading height of less than 3 ft. 3" (990.6mm) can be run in under the drum to be loaded.

WHEN WORKING IS FINISHED

- (a) Thoroughly clean out the drum with water and gravel at the end of each day's working.
- (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.

Maintenance

LUBRICATION

(a) <u>General</u>

All shafts and bearings needing daily attention are lubricated through drilled shafts and special greasways by fitting grease nipples. The lubrication diagram, fig. 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 operators 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.

(b) 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 tensioning is to allow the equivalent amount of one chain pitch free movement on the slack side of the chain, i.e. 3/4" (19mm) chain pitch - 3/4" (19mm) Slack, etc.

Main Drive Chain

A jockey sprocket is provided for the purpose of chain adjustment. First slacken the chain shee fixing nut to allow it to slide clear of the chain. Then, slacken the binx nut securing the jockey pin and sprocket to its mounting bracket and slide the assembly down the adjusting slot provided, until the correct chain tension is obtained, then retighten the fixing nut. Adjust chain shoe until it just touches chain and then tighten fixing nut.

Pump Drive Chain - Non-Dragline Machine

Slacken the jockey shaft fixing nut and slide the shaft along the slot in the jockey bracket until correct tension is obtained. Tighten the shaft fixing nut.

Pump Drive Chain - Dragline Machine

On mixers fitted with a dragline, the jockey assembly is replaced by the winch unit. Chain adjustment is done by slackening the bolts securing the winch and moving them, with the unit, along slots provided in its mounting bracket to tension the chain, then retightening the fixing bolts.

WATER TANK CONTROLS (See Fig. 3)

Little or no servicing is required. If it is found that the tank overflows, it is possible that some foreign matter has blocked the pilot hole in the diaphragm. This can be rectified by removing the strainer assembly and clearing the pilot hole with a peice of wire.

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If any further dismantling is carried out on the linkage in the tank, the following instructions will serve as a guide to obtaining the correct setting:-

- (a) With the tank full the float cam 'P' will be disengaged from the trip lever 'B'. Adjust the setbolt 'Q' until there is 1/32" to 1/16" (.8 to 1.6mm) clearance between the face of the operating lever and the pilot valve 'C', finally tighten up the locknut on the setbolt.
- (b) With the outlet valve 'M' on its seat, adjust the connector nut and locknut 'S' until there is 1/8" (3.2mm) clearance between them and the mounting angle.
- (c) If the water tank has been removed from the mixer, or if any wear has developed in the tilting handwheel, with the drum set in the CHARGE position, check that the operating lever 'R' is in contact with the tank body at point 'T'.

The tension spring and locknut at the bottom of the rod 'L' provides adjustment if required.

HYDRAULIC SYSTEM

Header Tank

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

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 inspection every three months (600 hrs. running), this can be carried out with-out draining the tank.

Check the level of the oil weekly (50 hrs. 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 (13.6 litres) and it is filled with Shell Rotella 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:-

- (a) SAE 10 Gil for Temperatures up to 60°F (15°C).
- (b) SAE 20 0il for Temperatures between 60°F and 90°F (15°C and 32°C).
- (c) SAE 30 Dil for Temperatures above 90°F (32°C).

Filter Removal

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 setbolts securing the filter carrier cap taking care not to lose the copper 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 copper washers.
- (f) Top tank up with oil if necessary and replace filler cap and seal.

Dismantling System

Do not remove or expose any part of the internal hydraulic gear in the event of breakdown, unless so instructed. In doing this it 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. No other lubrication of the system is necessary, in fact further lubrication will result in deterioration of the bushes in the lower links.

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.

DRAGLINE FEEDER (If Fitted)

Winch Unit

Check the winch unit weekly (50 hrs. running). Remove the clutch and slip ring guard, wipe the sliprings and check that the clutch faces are free from grease, oil and dirt. Examine the slipring brushes.

Check the level of the oil in gearcase and top up to the filling elbow, using Shell Macoma 68. Capacity of gearcase approximately 1/4 pint (.14 litres).

Dynamo

The dynamo can be either chain or belt driven depending on the engine fitted. To adjust the belt or chain, the general method is to slacken the dynamo fixing bolts and pivot it in its mounting to tension the drive, afterwards retightening the fixing bolts. Check the brushes periodically.

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Grease nipples are provided on the two rope sheaves on the jib, include these in your daily servicing.

If the electric cable to the shovel needs repairing, it should not be shortened by more than 5 ft. (1524mm).

The regulator cut-out voltage should be maintained at 12.1/2 to 13 volts.

GENERAL MAINTENANCE

Check for tightness 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 housings locked to prevent tampering and loss of tools.

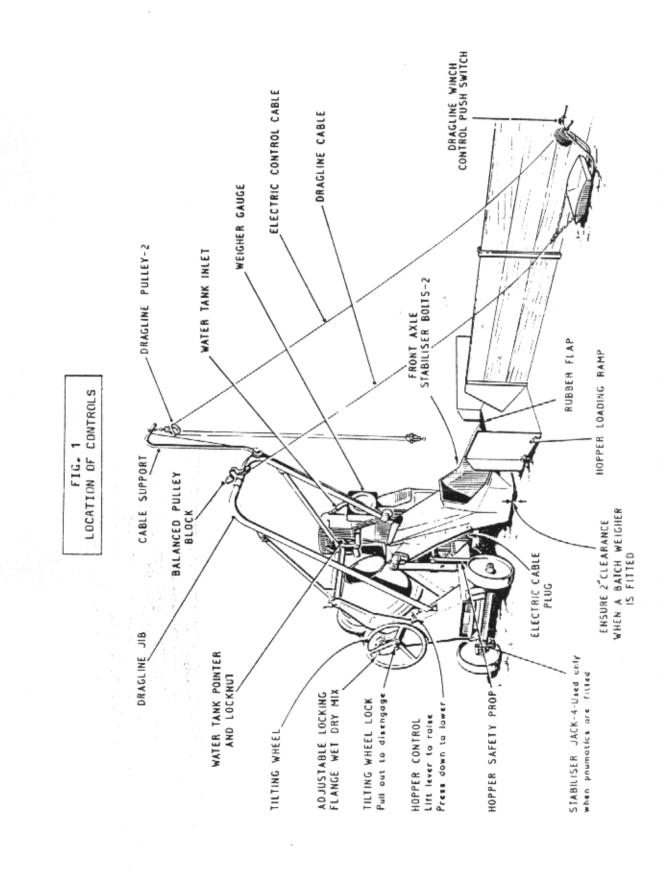
SERVICING SCHEDULE

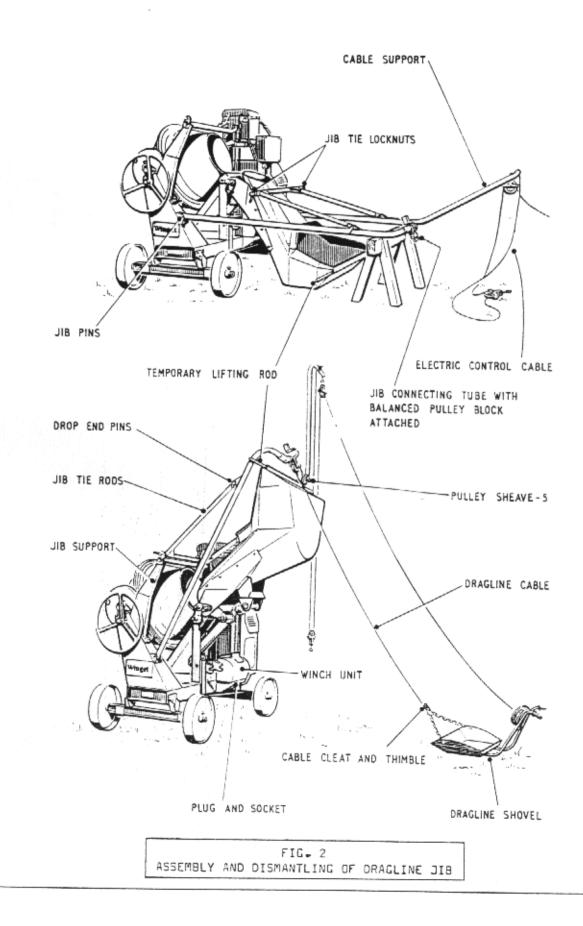
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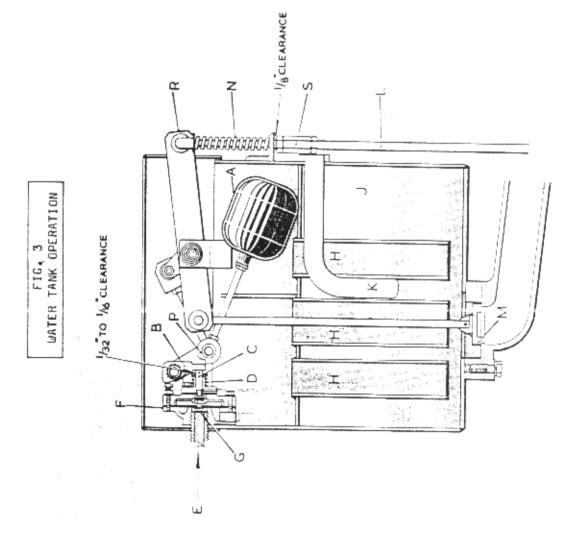
	DAILY
Mixer	Grease all nipples each day with a good quality med- ium grease. Shell Alvania RA is used at the Works. Thoroughly clean out drum when mixing is finished, with water and gravel. Wash out hopper and hose down mixer. Keep access doors and panels closed. If frost is likely drain water tank.
Engine Sump Lubrication Fuel Tank	See Engine Handbook
	WEEKLY
Main Drive Chain Pump Drive Chain	Lubricate chains with engine oil. Check tansion and adjust if required.
Hydraulic Header Tank	Clean top of tank, remove filler cap and check level. Top up as necessary. Do not mix different brands of oil. Check with hopper down and engine stopped.
Dragline Winch Unit If Fitted	Check cleanliness of slip rings and clutch faces to ensure a good electrical contact. Check level of cil in gearcase, fill to top of fill- ing elbow with Shell Macoma 68.
General	Apply a little engine oil to joints on water tank controls, track rods and hinges on housing, etc.
	THREE MONTHLY
Hydraulic Header Tank Fitter	Remove, clean and inspect

NOTE: CHECK ENGINE MANUFACTURER'S HANDBOOK FOR ROUTINE MAIN-TENANCE INFORMATION

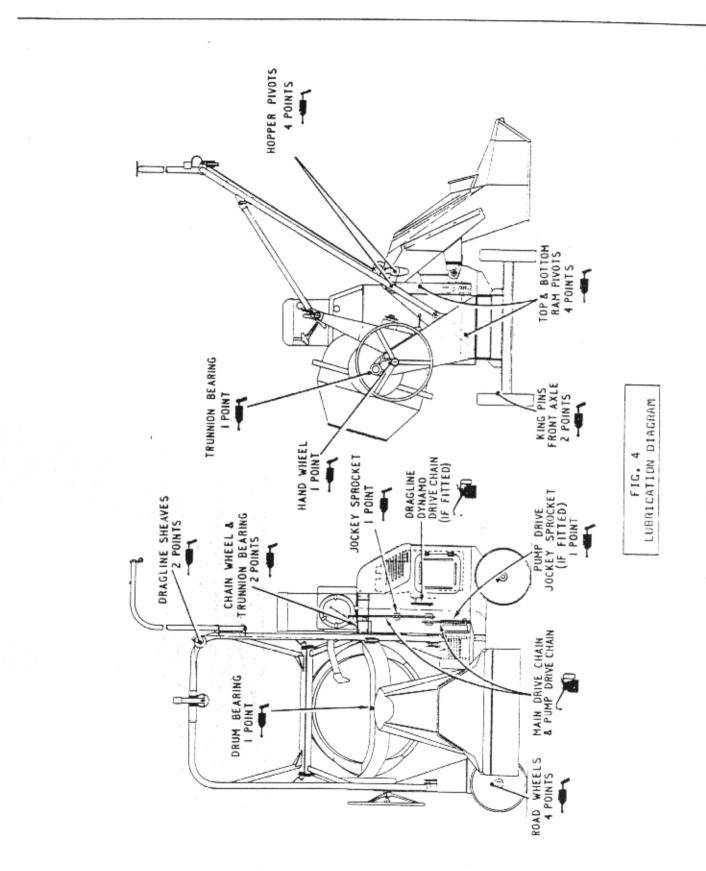
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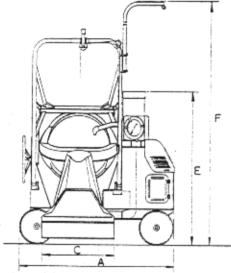




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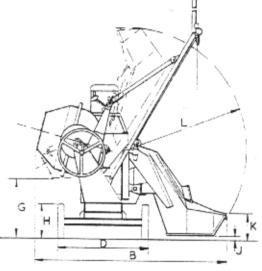


FIG. S	5
DIMENSIONAL	DRAWING

2584 mm		(8 ft - 5.3/4")
3175 mm		(10 ft - 5")
1225 mm		(4 ft = 0.1/4")
1511 mm		(4 ft = 11.1/2")
2482 mm		(8 ft - 1.3/4")
4769 mm		(15 Pt - 7.3/4")
990 mm		(3 ft - 3")
560 mm		(1 ft - 10")
76.2 mm		(3")
432 mm		(1 ft = 5")
2286 mm		(7 ft - 6")
	3175 mm 1225 mm 1511 mm 2482 mm 4769 mm 990 mm 560 mm 76.2 mm 432 mm	3175 mm 1225 mm 1511 mm 2482 mm 4769 mm 990 mm 560 mm 76.2 mm 432 mm

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.



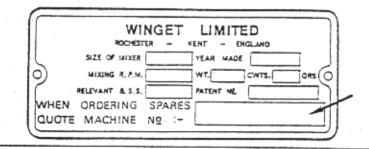
TO FIND A SPARE PART

The assemblies have been divided into groups and given identification letters A.8.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 required 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.

Spares compiled to LS.16111 and LS.16235 January 1977

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



SPARES GROUPS

Oragline Assembly	D1
Drive Assembly - Electric	۶З
Drive Assembly - Lister ST1	F2
Drive Assembly - Petter PH1	F1
Drum Assembly	32
Engine Housing - Electric	63
Engine Housing - Lister ST1	G2
Engine Housing - Pattar PH1	G1
Float Valve Oetails	٤1
Generator Drive Assembly - Lister ST1	03
Generator Drive Assembly - Petter PH1 & Electric	04
Hopper and Ram Assembly	C1
Hopper Ram Assembly	C4
Hydraulics Assembly	C2
Mainframe Assembly	A1
Main Chain Drive and Hydraulic Pump Drive Assembly	F4
Portability Assembly	A2
Shovel Assembly	05
Tilting Gear Assembly	83
Trunnion Assembly (Chain Wheel End)	61
Water Tank Assembly	٤2
Water Tank Mounting and Water Delivery Assembly	٤3
Weigh Gear Assembly	С3
Winch Assembly	D2

SPARES GROUPS

Wiring Diagram	G4
Dragline Assembly	D1
Drive Assembly - Electric	F3
Drive Assembly - Lister 5T1	F.2
Drive Assembly - Petter PH1	Fl
Drum Asserbly	32
Engine Housing - Electric	63
Engine Housing - Lister ST1	52
Engine Housing - Petter PH1	C1
Float Valve Details	El
Semerator Drive Assembly - Lister ST1	D3
Generator Drive Assembly - Fatter PH1 & Electric	D4
Hooper and Ram Assembly	C1
Hopper Ram Assembly (Type A)	C4
Hopper Rem Assembly (Type P)	C 5
Hydraulics Asserbly	C2 4 C6
Nainframe Assembly	A1
Main Chain Drive and Hydraulic Fump Drive Assembly	F4
Fortability Assembly	A2
Shovel Assembly	D5
Tilting Gear Assembly	B3
Trunnion Assembly (Chain Wheel End)	B1 `
Later Tank Assembly	E 2
Water Tank Founting and Water Delivery Assembly	٤٦
Weigh Geer Assembly	C3
Winch Assembly	D2
Fastenings	Y

	W	ìn	g	e	t				Sp	ar	es	P	ublic	ation	No	S103	3		Y
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	art N				1077 00	1050 00													
	Part No	513 2899 00 513 1000 00		513 1051 00	513-1077 00	513 1050 00		513 1076 00	94.00	513 2541 00		502 8671 00		502 8672 00	101		513 2568 00	513 2901 00	
	Description Part N	2899	v185 & V201 nion Pedestal (Drive	1051		(Tilt End) 513 1050	Complete with Y30, Y125, Y185 & Y201	Guard 513 1076	th Y87 & Y183 destal Guard Door cor core	513 2541	2	8671	Y183 & Y202 Trunnion Pedestal Lower	502 8672	on=Dragline	ben.	513 2568 V133 &	513 2901	

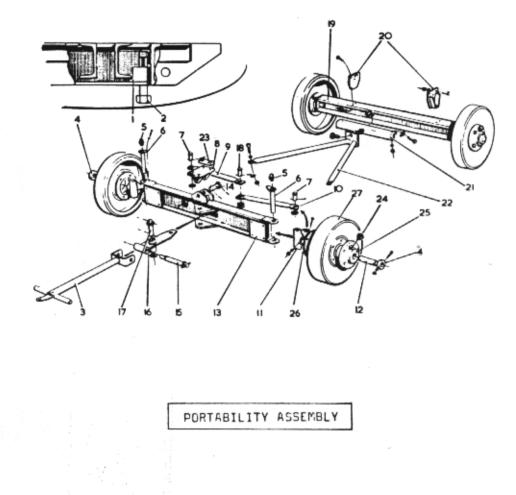
When Ordering :-Always Quote

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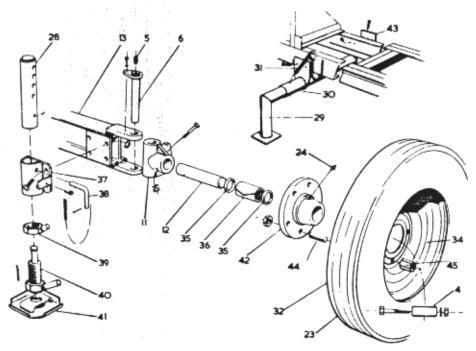
Machine No, Part No, Description and Quantity

A1





A2 Winget





When Ordering .____ Machine NO Part NO Description and Questi

Spares Publication NºSI03



A2

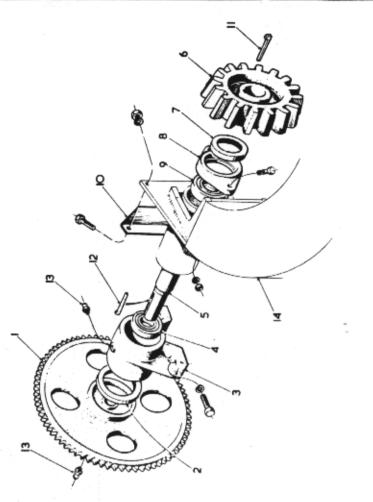
Ref	f	Part N ^o	Oty	Ref	Description	Part No	Qty
- 0	Stabilizer Nut Stabilizer Bolt	504 5501 00 502 8181 00	~ ~	27	teel Road Wheel	511 1467 00	4
110	Toubar	7755	4 -	28	Stabilizer Leq	500 8696 00	<u> </u>
4		145 5040 00	4		Complete with Y413		8
	Complete with Y21, Y123 & Y183	i i i	4	29	Outrigger Leg	513 1282 00	-
ŝ	Nipple	1022	2	30	Support Tube		
9		502 7761 00	2		Complete with Y26, Y124 & Y184		ю
			2	5	Ē	513 1285 00	-
~	Pin for Track Rod	502 7816 00	2	32	Tyre	475 3001 61	4
	te with Y464 & Y166		0	33	Tube		4
80	Front Axle Swivel Bracket	502 7801 00	- <	5	Wheel with Locknut	3001	4
0	DEFILATENT MAN TAAP 1124 TTA4 TTA4 C 1200		J 7	5	Ulstance washer	8564	
, 5	Vearside Track Rod	502 7762 00		56	Bearing Stabilizer Brackat	LI3 1010 00	4 4
5	Front Stub Axle	2 7756	2	5	Complete with Y24. Y124 & Y312	20/0	4 t
	Complete with Y19, Y123 & Y183		2	38	5	501 1783 00	
12	Stub Axle Pin	502 7757 00	2	62		6950	-
13	Front Axle	2	۴	40	Lifting Screw	1505	4
14		502 7813 00	-		Complete with Y169 & Y468		4
	Complete with Y168 & Y470		2	41	Base for Stabilizer	508 6950 10	4
10	Towbar Pin	2 7818	-	42	Roller Bearing Hub Adaptor	501 8219 00	4
10	Steering Bracket	2 7799	-	43		513 1284 00	-
17	Steering Bracket Pin	502 7815 00	-		w.		n
	Complete with Y167 & Y467		2	44			20
18		502 7817 00	-	45	Wheel Nut		20
	Complete with Y166 & Y464		-				
61	Fear Axle	502 7764 00					
20	Rear Axle Bracket	513 1083 00	10		G106.		
	Complete with Y25, Y124 & Y184		0		0		
21		502 7955 00	-		Ът.		
	Complete with Y25, Y124, Y184 & Y200		2		~		
22		504 5499 00	-				
	Y125, Y313 &		- (25, 26 and		
50	Suivel Brecket Dacking		ν		with Pressed Steel Road Wheels		
24	Nipple		4				
25	Wheel Hub (Steel Wheels Dnly)	1423	4		Items 28 to 45 Inclusive used with		
26	Backing Plate (Steel Wheels Only)		4		Road		

When Ordering Always Quote

:- Machine Nº , Part Nº, Description and Quantity



Spares Publication NºSIO3



TRUNNION ASSEMBLY (CHAINWHEEL END)

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aty.	0		0-	- 00-
Part No	503 05 85 00 417 1608 00 502 7899 00	1120 1020 1018	1364 1021 2120	501 2503 00 301 1061 60 333 1040 20 501 1183 00
Description	Chain Wheel 011 Seal Trunnion Bearing (8.P. End) Commists with 2107 2 v185	ler Bearing al Pinion Shaf	Oil Seal Locking Cap Complete with Y17, Y123 & Y183 Bearing	Bevel Pinion Guard Complete with Y14, Y123 & Cib Hd. Key Gib Hd. Key Grease Nipple Trunnion Trunnion
Ref	- 00	400	6 8 6	с <u>ссре</u>



When Ordering :- Always Quote

Machine No, Part No, Description and Quantity

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			- The							A Republic to the P									DRUM ASSEMBLY					
			æ,		0	J	9 9					(J.	R	1+24	Jet Color	1 ALAN							
Г	Qty		As Redd ja		7))- -	8					<u>ب</u>	4	8		27	5 -		2	2	2	8	2	4
F	Part No Oty	1183 00 7568 00 7609 00	As Reqd	5843 00	9100 80 1040 20	7610 00	2220 00	7613 00 1	7612 00	2180 00 9280 00	8287 00 7608 00		7611 00 7607 00	1718 00		1709 00 1	7721 AU 1	12	7728 00		00 8577		4764 00	4
	Part No Oty	888		504 5843 00	352 9100 80 333 1040 20	7610 00	2220 00		7612 00	88	8287 00 7608 00		88	1718 00		00	00 1	12	00		0		8	4
		501 1183 00 502 7568 00 502 7609 00		r Y34 504 5843 00	352 9100 80 333 1040 20	502 7610 00 Y351	102 2220 00	7613	502 7612 00	2180 00 9280 00	Cap Gasket 502 8287 00 Can 502 7608 00	ete with Y93 & Y164	7611 00 7607 00	(Discharge Side) 501 1718 00	123 k	side) 513 1709 00 1	7721 AU 1	with Y90 & Y184	V17A E 502 7728 00	84 × 1 × 4 ×	00 8577		4764 00	Y184

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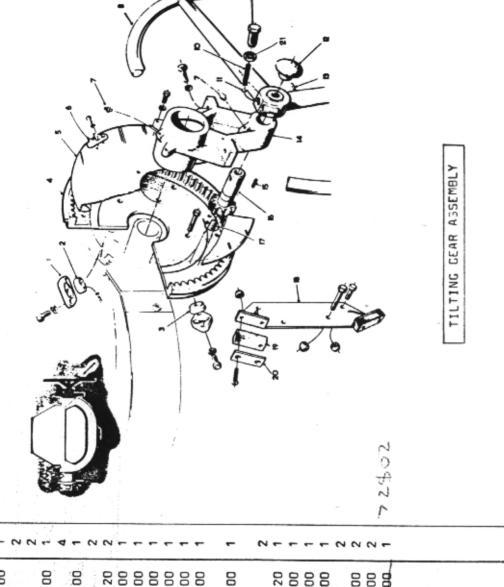
Machine No, Part No, Description and Quantity.

B2





Spares Publication NºSI03

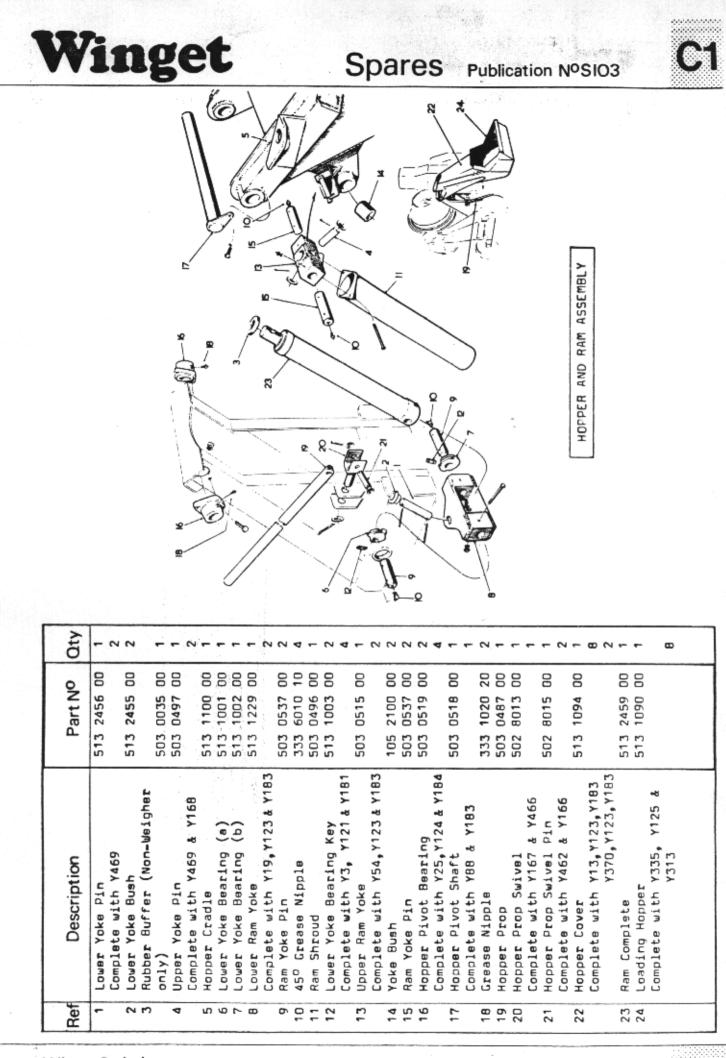


1 Locking Flange 513 1226 00 3 2 Adjustable Locking Flange 513 1228 00 1 3 Complete with Y352 & Y181 513 1227 00 2 3 Locking Hange Boss 513 1047 00 2 3 Locking Hange Boss Y44 & Y236 513 1047 00 2 4 Tilting Wheel Wad & Y236 513 1049 00 2 5 Tilt Wheel Locking # Y181 513 1049 00 2 6 Fointer With Y89 # Y181 513 1042 00 1 7 Complete with Y89 # Y181 513 1042 00 1 1 7 Complete with Y89 # Y181 513 1043 00 1 1 7 Complete with Y89 # Y181 513 1042 00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <td< th=""><th>Ref</th><th>Description</th><th>Part No</th><th>Qty</th></td<>	Ref	Description	Part No	Qty
Complete with Y92 & Y184 513 1228 00 Adjustable Locking Flange 513 1227 00 Boss Complete with Y352 & Y181 Complete with Y352 & Y181 513 1047 00 Locking Flange Boss 513 1047 00 Tilting Wheel X44 & Y236 Tilting Wheel X44 & Y236 Complete with Y81 & Y181 513 1049 00 Complete with Y81 & Y181 513 1049 00 Complete with Y81 & Y181 513 1048 00 Steel Ball 513 1048 00 Steel Ball 513 1048 00 Steel Ball 513 1046 00 Steel Ball 502 7888 00 Facket and Trunnion 502 7888 00 Baaring 502 788 00 Mills Pin 513 1046 00 Tilt Bracket and Trunnion 502 788 00 Baaring 502 788 00 Mills Pin 513 1046 00 Tilt Bracket and Trunnion 502 746 00 Baaring 70	-		13 1226	٤
Adjustable Locking Flange 513 1228 00 Boss 513 1227 00 Complete with Y352 & Y181 513 1247 00 Locking Flange Boss 513 1227 00 Complete with Y43 & Y236 711 513 1047 00 Complete with Y81 & Y183 723 513 1049 00 Complete with Y81 & Y181 7112 7112 7142 00 Complete with Y81 & Y181 713 7104 00 Complete with Y81 & Y181 713 7104 00 Complete with Y81 & Y181 713 7120 20 Pand Wheell 712 513 1040 00 Set Bolt 513 7040 00 513 1042 00 Set Bolt 513 733 7040 00 513 1043 00 Set Bolt 513 788 00 513 1040 00 513 1040 00 513 1040 00 502 788 00 502 788 502		+6		9
Boss 513 1228 00 Complete with Y352 & Y181 513 1227 00 Tilting Wheel x Y236 Tilting Wheel x Y236 Tilt Wheel Guard x Y236 Complete with Y81 & Y181 x 7104 Complete with Y81 & Y181 x 7102 Complete with Y81 & Y181 x 71040 Greese Nipple x 71040 Hand Wheel x 710 Set Bolt x 71040 Compression Spring 513 1043 Set Bolt x 7185 Complete with Y94, Y125 & x 731 1040 Mills Pin x 7185 Feather Key 513 1044 Tilting Pinon and Shaft 513 1044 Complete with Y39 & Y236 502 9144 Complete with Y39 & Y236 502 9144 Complete with Y39 & Y236 502 9144 <td>~</td> <td>stable Locking F</td> <td></td> <td></td>	~	stable Locking F		
Complete with Y352 & Y181 513 1227 00 Tilting wheel Y44 & Y236 Tilting wheel Y44 & Y236 Tilt wheel Guard Y44 & Y236 Complete with Y89 & Y183 513 1049 00 Complete with Y89 & Y183 513 1049 00 Complete with Y81 & Y181 513 1049 00 Grease Nipple 513 1043 00 Hand Wheel 513 1043 00 Set Bolt 513 1043 00 Compression Spring 513 1043 00 Set Bolt 513 1043 00 Feather Key 513 1045 00 Tilling Pinn 513 1046 00 Complete with Y94, Y125 & 513 1044 00 Tilling Wheel Stop 513 1046 00 Complete with Y39 & Y236 514 4 00 Complete with Y39 & Y236 5			3 1228	-
Locking flange Boss 513 1227 00 Tilting wheel Y44 & Y236 Tilting wheel Y44 & Y236 Complete with Y83 & Y236 513 1049 00 Tilt wheel Guard 513 1049 00 Complete with Y81 & Y183 513 1042 00 Complete with Y81 & Y181 513 1049 00 Complete with Y81 & Y181 513 1042 00 Complete with Y81 & Y181 513 1040 00 Complete with Y81 & Y181 513 1040 00 Genese Nipple 513 1040 00 Hand wheel 513 1040 00 Set Bolt 513 1040 00 Steel Ball 513 1043 00 Plunger Knob 513 1043 00 Mills Pin 513 1043 00 Steel Ball 513 1043 00 Plunger Knob 513 1043 00 Mills Pin 513 1045 00 Tilt Bracket and Trunnion 502 7888 00 Genther Wey 7185 & Feather Key 513 1045 00 Complete with Y94, Y125 & 513 1045 00 Complete with Y39 & Y236 502 9144 00 Complete with Y39 & Y236 502 9145 00 Rubber Stop 502 9145 00		with Y352 & Y1		-
Tilting Wheel 513 1047 00 Complete with Y43 & Y236 513 1049 00 Tilt Wheel Cuard Y44 & Y236 Tilt Wheel Cuard \$13 1049 00 Complete with Y81 & Y181 513 1042 00 Complete with Y81 & Y181 513 1042 00 Fointer 513 1042 00 Complete with Y81 & Y181 513 1040 00 Fointer 513 1040 00 Grease Nipple 513 1040 00 For Complete with Y81 & Y181 513 1040 00 Set Boll 513 1040 00 Set Boll 513 1040 00 Steel Ball 513 1043 00 Plunger Knob 513 1043 00 Mills Pin 513 1045 00 Tilt Bracket and Trunnion 513 1045 00 Bearing 513 1045 00 Complete with Y94, Y125 & 513 1045 00 Mills Pin 513 1045 00 Tilting Wheel Stop Bracket 513 1045 00 Locking Plunger 513 1045 00 Locking Plunger 513 1045 00 Tilting Wheel Stop Bracket 513 1046 00 Rubber Stop 502 9145 00 Rubber Stop 502 9145 00	n	Flange	3 1227	2
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Y44 & Y236 513 1049 00 Tilt Wheel Guard 513 1049 00 Complete with Y89 & Y183 513 1042 00 Pointer 513 1042 00 Complete with Y81 & Y181 513 1049 00 Complete with Y81 & Y181 513 1040 00 Complete with Y81 & Y181 513 1040 00 Compression Spring 513 1040 00 Set Bolt 513 1040 00 Set Bolt 513 1040 00 Steel Ball 513 1040 00 Steel Ball 513 1043 00 Plunger Knob 513 1043 00 Mills Pin 513 1043 00 Tilt Bracket and Trunnion 502 7888 00 Bearing 513 1045 00 Complete with Y94, Y125 & 513 1045 00 Tilting Pin 513 1046 00 Tilting Wheel Stop Bracket 513 1046 00 Complete with Y39 & Y236 513 1046 00 Tilting Wheel Stop 513 1046 00 Tilting Wheel Stop 502 9144 00 Tilting Wheel Stop 502 9144 00 Tilting Wheel Stop 502 9144 00 Tilting Wheel Stop 502 9145 00 Backnut 500 900 <td></td> <td>e with Y43 &</td> <td></td> <td>2</td>		e with Y43 &		2
Tilt Wheel Guard 513 1049 00 Complete with Y89 & Y183 513 1042 00 Pointer Complete with Y81 & Y181 Fointer Complete with Y81 & Y181 Complete with Y81 & Y181 513 1042 00 Complete with Y81 & Y181 513 1048 00 Fointer 513 1040 00 Set Bolt 513 1040 00 Set Bolt 513 1040 00 Set Bolt 513 1040 00 Steel Ball 101 1120 00 Plunger Knob 352 4031 00 Tilt Bracket and Trunnion 502 7888 00 Plunger Knob 353 1061 20 Tilt Bracket and Trunnion 502 7888 00 Plunger Knob 305 1061 20 Tilt Bracket and Trunnion 502 7888 00 Plunger Knob 3305 1061 20 Tilting Pin 513 1045 00 Tilting Wheel Stop Bracket 513 1045 00 Tilting Wheel Stop 513 1046 00 Tilting Wheel Stop 502 9145 00 Tilting Wheel Stop 530 1080 00 Tilting Wheel Stop 530 1080 00		A A A A		
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Complete with Y81 & Y181 513 1042 00 Pointer 513 1020 20 Grease Nipple 513 1020 20 Hand Wheel 513 1020 20 Set Bolt 513 1040 00 Set Bolt 513 1040 00 Set Bolt 513 1040 00 Set Bolt 513 1043 00 Set Bolt 513 1043 00 Compression Spring 513 1043 00 Steel Ball 513 1043 00 Plunger Knob 513 1043 00 Mills Pin 513 1043 00 Plunger Knob 513 1043 00 Mills Pin 513 1043 00 Plunger Knob 502 7888 00 Mills Pin 502 7888 00 Filt Bracket and Trunnion 502 7888 00 Parating 7125 & Feather Key 7125 & Feather Key 513 1046 00 Complete with Y39 & Y236 513 1046 00 Complete with Y39 & Y236 502 9144 00 Fulting Wheel Stop 512 9146 00 Tilting Wheel Stop 502 9145 00 Filting Wheel Stop 502 9145 00 Filting Wheel Stop 502 9145 00)			{
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Grease Nipple Hand Wheel Set Bolt Set Bolt Set Bolt Set Bolt Statel Ball Compression Spring Steel Ball Statel Ball Dlunger Knob Mills Pin Mills Pin Mills Pin Mills Pin Bearing Complete with Y94, Y125 & 4031 00 7352 4031 00 7352 4031 00 7352 4031 00 7352 4031 00 7352 4031 00 7352 4031 00 71120 00 7352 4031 00 71120 00 71120 00 71120 00 71120 Wheel Stop Rubber Stop Backnut Backnut		Y81 &		2
Hand Wheel Set Bolt Set Bolt Set Bolt Steel Ball Steel Ball Flunger Knob Mills Pin Tilt Bracket and Trunnion Bearing Mills Pin Tilt Bracket and Trunnion Bearing Complete with Y94, Y125 & Y185 Feather Key Tilting Pinion and Shaft Feather Key Tilting Wheel Stop Bracket Tilting Wheel Stop Bracket Complete with Y39 & Y236 Rubber Stop Rubber Stop Bracket S13 1046 00 502 9144 00 Tilting Wheel Stop Rubber Stop Bracket S13 1046 00 502 9145 00 Tilting Wheel Stop Bracket S13 1046 00 502 9145 00 Tilting Wheel Stop Bracket	~		3 1020	2
Set Bolt 513 1040 00 Compression Spring 513 1040 00 Steel Ball 513 1043 00 Plunger Knob 513 1043 00 Mills Pin 352 4031 00 Tilt Bracket and Trunnion 352 4031 00 Filt Bracket and Trunnion 352 4031 00 Tilt Bracket and Trunnion 352 4031 00 Tilt Bracket and Trunnion 352 4031 00 Filting Pin 310 4 Complete with Y94, Y125 & 305 1061 20 Feather Key 305 1061 20 Tilting Pinion and Shaft 513 1046 00 Locking Plunger 513 1046 00 Tilting Wheel Stop Bracket 513 1046 00 Tilting Wheel Stop Bracket 513 1046 00 Tilting Wheel Stop 502 9145 00 Backnut 330 1080 00	ω	Wheel .	3 1048	-
Compression Spring 513 1039 00 Steel Ball 101 1120 00 Flunger Knob 513 1043 00 Mills Pin 352 4031 00 Tilt Bracket and Trunnion 352 4031 00 Bearing 502 7888 00 Complete with Y94, Y125 & 705 7888 00 Complete with Y94, Y125 & 705 1061 20 Feather Key 305 1061 20 Tilting Pinion and Shaft 513 1045 00 Tilting Pinion and Shaft 513 1045 00 Tilting Wheel Stop Bracket 513 1046 00 Tilting Wheel Stop Bracket 513 1046 00 Tilting Wheel Stop 502 9144 00 Rubber Stop 502 9145 00 Backnut 502 9145 00	6	Set Bolt	3 1040	-
Steel Ball 101 1120 00 Plunger Knob 513 1043 00 Mills Pin 352 4031 00 Tilt Bracket and Trunnion 352 4031 00 Tilt Bracket and Trunnion 502 7888 00 Bearing 7185 Complete with Y94, Y125 & 305 1061 20 Feather Key 305 1061 20 Tilting Pinion and Shaft 513 1046 00 Locking Plunger 513 1046 00 Tilting Wheel Stop Bracket 513 1046 00 Tilting Wheel Stop Bracket 513 1046 00 Tilting Wheel Stop 502 9144 00 Tilting Wheel Stop 502 9145 00 Backnut 3301 1080 00	10	ression	3 1039	-
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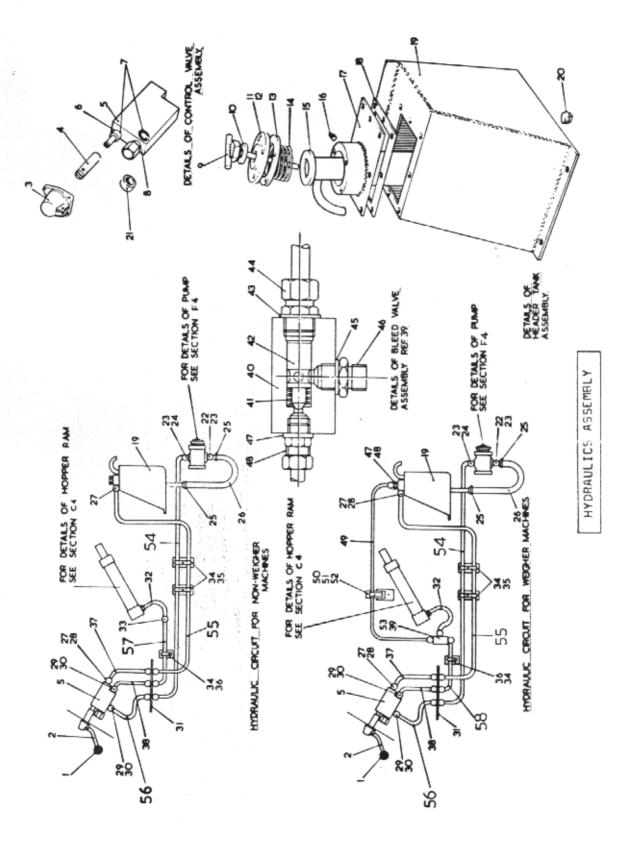
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Spares Publication NºS 103



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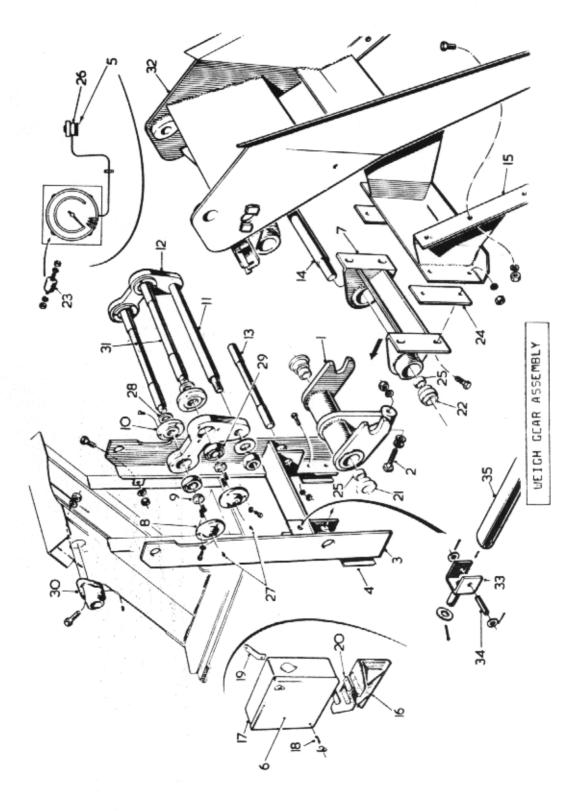
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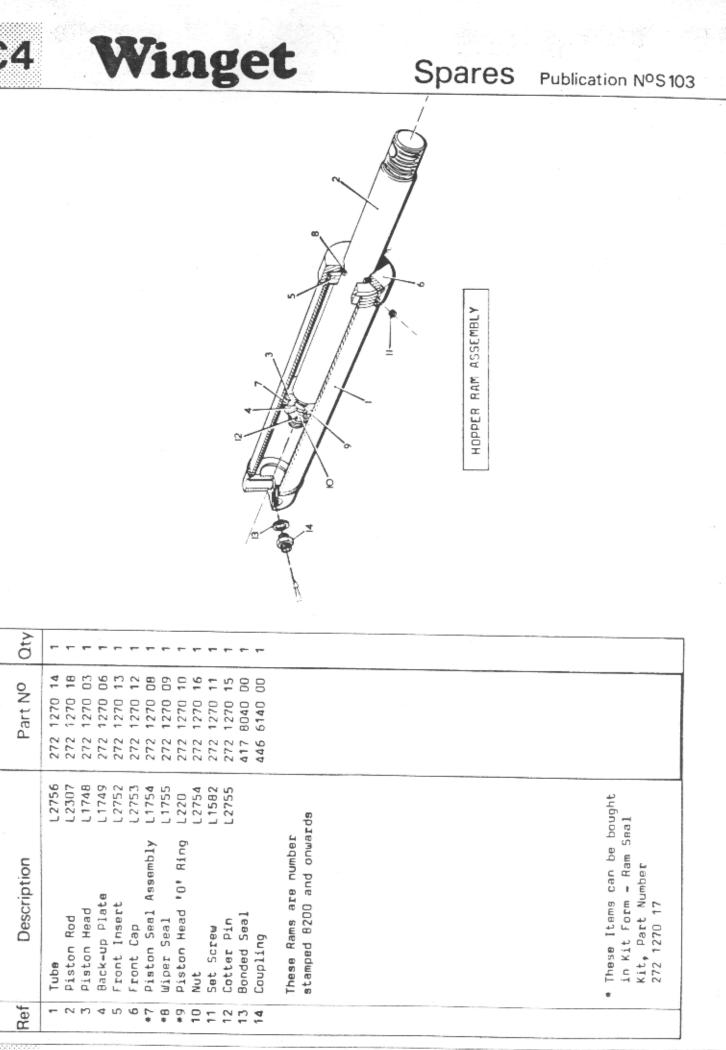
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Description	Lower Arm Pivot Striking Button Complete with V125 & V185	5 F	Y25, Y124 & Y184	Weigher Frame Packing Plates	Lnadcell Liner Gauge Cover	Lower Hopper Cradle Bracket	Complete with Y80 & Y181	eering tep Bearing Retainer	Complete with Y85	Seal Housing		Complete with YIJI & YIDB	upper Links Complete with YB5, Y332 & Y182	Lower Arm Pivot Shaft	Lower Cradle Shaft		Y124 &	125,	Gauge Mounting Box Bracket		complete with 714, 7123 & 7183 7250 & 7163		Gauge Box Strap	Packing Piece	Pivot Arm Insert	Cradle Bracket Insert	Ē.	Complete with Y121 & Y181	Packing Plates Nulon Rush	nd Gauge Assembly	Grease Nipple
	176.5	135	1	1		. <u> </u>	~ .			-	<u> </u>	<u> </u>			-	0	0		•••			- CQ	10	- LU		•	has 1	<u> </u>			

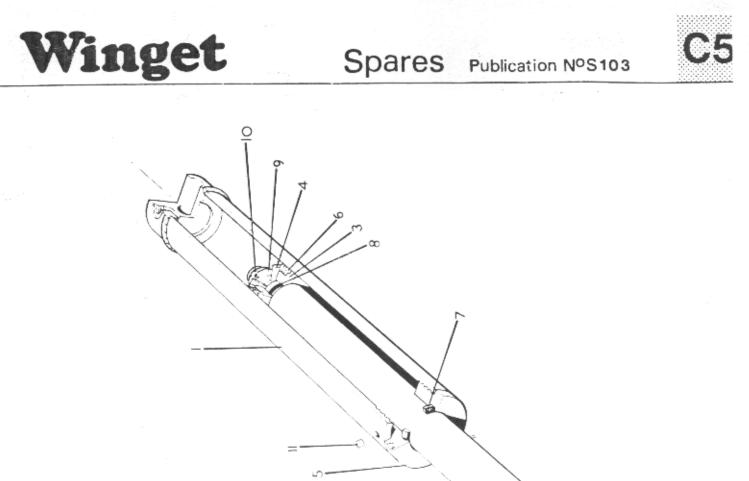
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When Ordering :-



Tute assembl Piston Rod
Diston Head Back un Plate Frent End Diston Sen] Mut Solit Pin Solit Pin Sorew
TA INENTIEY THIS TY CVLINDER THE LETTER STAMPED ON THE FREE THE PISTON ROD.
for complete Hopper assembly comprising Jated above order 272 1350 00. MOTE: Thome 6, 7 & Mought in kit form Soal Kit - Cort No. 17.

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

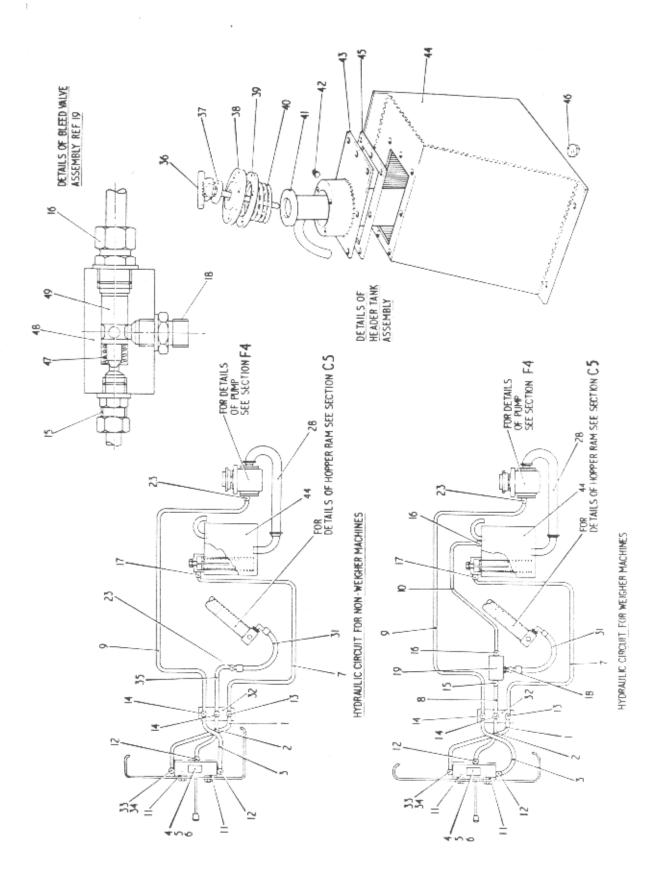
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Publication NºSI03



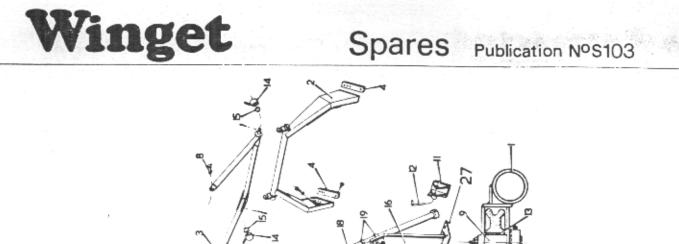
When Ordering Always Quote

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Description		Part N ^O	Qty	Ref	Description	Part No	oty
liveleau) i e Alose		513 2916 00		32		3 2921	
		513 2915 00	-	F.	Male Adaptor (Ref 4 only)	5 6620	· •
Hwitzautic Hose	And	10	_			7 8040	-
00F A51	00 2144	-		34	Male Adaptor (Refs 5 & 6 only)	5 6140	7
VITUE DEC ACT		6476			lete with	~	-
101				U F	Undraulia Dina	10	-
Control Valve Ref 451 4	4425 00	10 CZ 00 TCU		0,0	протен	1 1441	_
4, 5 & 6 each complete with	∿€th			36			
λI			2	37	Seal	/ BUBU	- ·
Hvdraulic Fine		513 2575 00		38	Filter Ca	503 0509 00	- 1
Hvdroulie Pinn		513 2574 DD			e with:		2
		2			Selon Washers	417 7170 00	5
		0530	-	02		503 0646 00	-
		0100		5 4		1425	_
Refs 5 & 6	(Aluo	2122		3		12130	-
Male Adaptor		01110		5			1 -
complete with: Pended Seal	[69]	4J7 8030 DD		42	Taper Plug	1707	
Nulkhoad Connector		446 A87D NO		43	Header Tank Cover	503 0904 00	-
					complete with: Y84 & Y182		80
		1064		44		503 0903 00	-
		1000		,	commists with: V2 V121 & V181		4
with: Ponded	5631	12/10	_	1	LOODLAN TANK CANADA	503 0905 00	
նիստ էլ նեց		20.21		5.			
complete with: Bonded Scal	[ca]	8n30			Plug		
Counting		446 3210 0D		*47	Compression	0878	
with: Bonded	Seal	417 8030 00		* 48	Bleed Valve	394	-
		n13 1066 00		* 49	Bleed Valve Plunger	503 1395 00	-
uphed Anapuur 							
complete with: Proded Seal	1690	10010			it and the most of working with		
Bleed Valve Assembly complete	omplete	503 1393 Du		•	ти сантнори по пава ата маситиае ит.	-	
					weigher anly		
Countinn		466 6120 00	-				
commists with: Manded Seal	[63]	417 803D UD					
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Prujikat Pinge			-				_
pownlete with: Clip		132 INIA AR					
Tilleroon Dam Hoco		1 JEN ADE7 DD			_		

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





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Ref	Description	Part No	0	Qty
-	ragline Jib	3 10		-
2	ine Jib Support	5	00	
	m -			4
	Y231 & Y2		1	¢ 1
m	b Tie	5	B	-
4	Back Plate for Jib Tle	r M	00	~
s.	Cable Support	т Ю	ŪÜ	-
9	Connecting Tube	513 1032	00	۴
	Complete with Y28, Y124& Y184			4
5	Upper Pivot Pin	513 1037	00	
	te wi			2
æ	Drop End Pin	513 1031	8	2
6	Pulley Pin	513 1034	6	2
	Complete with Y468			2
10	Rope	15 11	8	~
5	line	513 1033	00	1LH
				1 RH
	Complete with Y24, Y124 & Y184			8
	Jib Pin	513 1035	8	~
Ę,		-	8	2
		513 1199	8	2
	Complete with Y471			2
5	bara,	513 1200	8	2
16	168	3 25	6	
12	ront Rope Gua		8	-
	Complete with Y100			~
	Cantive Nut	33	00	~
18	Upper Rope Guard	513 2539	8	-
		2	8	n
	t t			2
20	Grease Nipple			n
21	Cable	4777 5026		••
22	Side Pulley		80	-
53	Belance Unlicy Alock	ŝ	00	
24	Pulley Pin	555 2132	8	
	Complete with Y472			4 10
35	Bush	9	8	~
26	Rush	79	60	-
27	curing Plate	513 1206	00	-
	Complete with Y374 & Y180			¢

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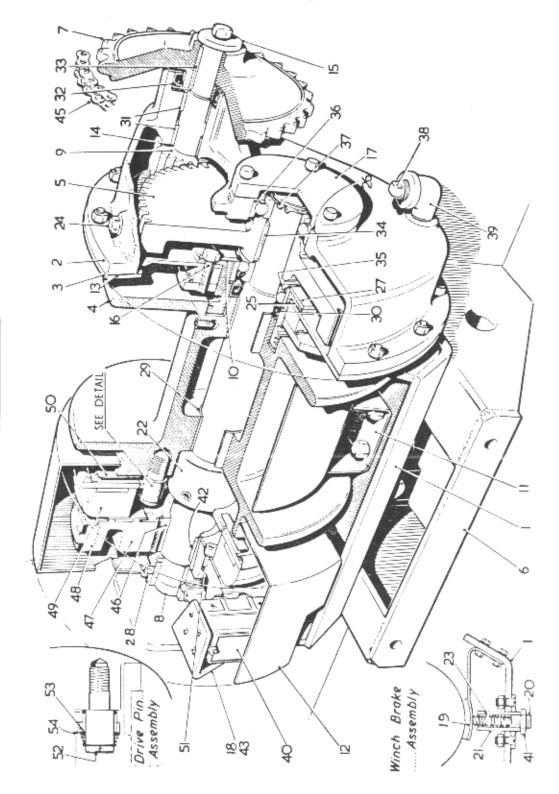
Spares Publication NºS 103



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When Ordering :_____ Always Quote

Machine No, Part No, Description and Quantity

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Description	Part N ^O	Qty	Ref	Description	Part No	Qty
Winch Cradle	513 1005 00	-	28	Flangette	290 1200 00	-
Y124 &		4		Complete with Y14, Y123 & Y183		ы
		4	29	Bush	8100	2
Gearcase - Winch Unit	513 1006 00	-	30	011 Seal	417 1243 80	~
Complete with Y7, Y122 & Y182		13	5	Roller Bearing	113 1270 00	2
Gearcase - Backplate	513 1007 00	٢	32	Oil Seal	1284	~
<u> </u>	513 1321 00	-	33	Feather Key	4041	-
Complete with Y411		2	4 D	Feather Key	1051	
Winch Drive Pinion	513 1009 00	-	35	Bearing	1100	~
Winch Support	513 1010 00	-	36	Bearing	2100	-
Complete with Y46, Y137 & Y317		4	37	Circlip	4200	-
Dragline Chainwheel	513 1011 00	-	38	Pluq	7010	-
Complete with Y56 & Y183		-	39	Male/Female Elbow	7030	~
Winch Shaft	513 1012 00	-	40	Brush Holder	2140	"
Pinion and Shaft	513 1013 00	-		Complete with Y373 & Y21		4
Gearcase Spigot	1320	-	41		240 1030 00	-
Winch Cradle Rope Guard		-	42	Feather Kev	1061	~
V13.		4	43			
	513 1016 00	-				
Complete with Y13 & Y183		2	45	Pump and Winch Drive Chain	2 T (
Winch Gearcase Gasket	513 1160 00	-		Petter PH1	134 1067 40	-
Thrust Washer	513 1018 00	2		Lister ST1	134 1060 207	-
Chainwheel Retaining Plate	513 1019 00	-		Electric	134 1060 70	-
Special Set Bolts with Locking Wire	3 1020	9	46	Tapered Lockbush	021 0920 00	-
Bearing Cap	513 1021 00	-	47	Hub R.H.	021 0730 00	-
Complete with Y82 & Y181		ы	48	Collector Ring Assembly	021 0740 00	-
Bush Holder Bracket	513 1022 00	-	49	Magnet Assembly	020 2830 00	5
Complete with Y13, Y123 & Y183		2	50	Armature - Pin Type	020 2310 00	5
Winch Brake Finger	513 1023 00	-	51	Capscrews and Lockwasher	021 0780 00	9
Complete with Y2, Y121 & Y181		2	*52	Drive Pin and Retainer with Locking		
Spring Adjuster	1024	+-		Wire		ю
Winch Brake Spring Guide	513 1025 00	f ~~	ំ ខ្មែរ *	Retainer Detent Spring		ŝ
Complete with Y334		2	*54	Spring Assembly (8)		n
Collar	513 1017 00	-				
Complete with Y412		-		1500		
Compression Spring	513 1026 00			PULTE 02523/025		
Breather Plug	513 1036 00	-		* These items are supplied as a		
Gearcase Spigot Gasket	1161	-		complete assembly, Tilted -		
Bearing Cap Lasket	513 1166 00	-		Clutch Mounting Accessories		

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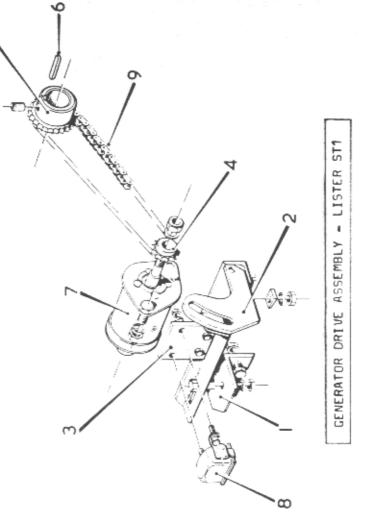




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Spares Publication NºS 103



Lin	Ref	Description	Part No	Qty
	-	Generator Bracket Cleat	513 2552 00	- 0
10770apr-1071	2	ting B	504 5502 00	-
ant no - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		Complete with Y25, Y125 &		~
		Y200		i -
	n	Bra	504 5504 00	
		3		2
	4	Generator Sprocket	4249	,
	ŝ		504 4336 00	-
		Complete with Y410		
	9	Parallel Key		
	5	5	205 5010 00	~
		Complete with Y15, Y122 &		6
	¢		00 010c 0cu	4 +
	D	regulator remaints with ven vito L	2007	-
		ADD FOR MITM		~
	¢		111 101 01	4 -
	2	Lhain 6 - Construction	100	-
		Brushes for Lenerator		
		(not illustrated)	020 2050 02	1560
	_			
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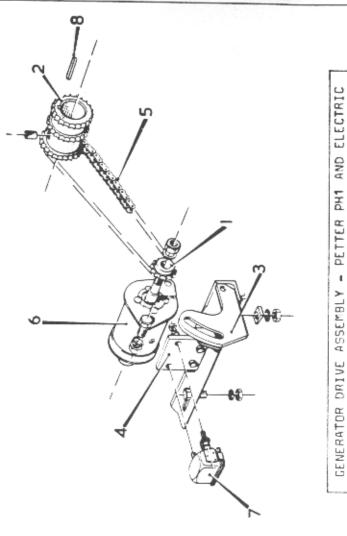


When Ordering :- Machine No, Part No, Description and Quantity



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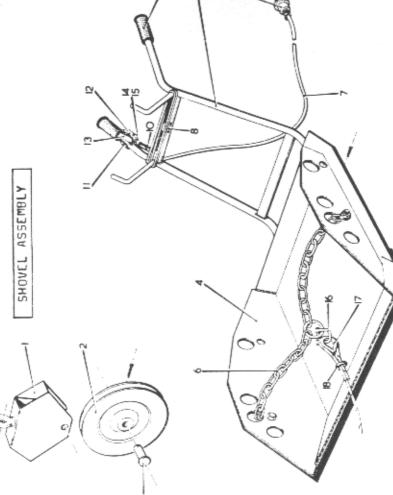


Generator Drive Sprocket Detter PH1 Electric Complete with Y410 Generator Mounting Bracket petter PH1 Complete with Y25, Y124, Complete with Y24, Y25 & Y200 Electric Complete with Y24, Y184 Regulator Mounting Bracket Petter PH1 Complete with Y3 & Y181 Complete With Y3 & Y181 Comple
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Y132
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When Ordering :-Always Quote :-



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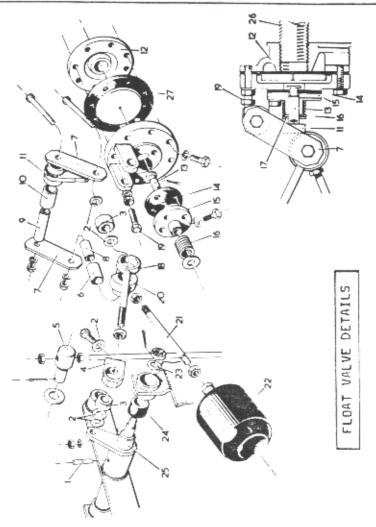
Ref	Description	Part No	Qty
-	1		-
2		2081	-
ю	Ľ		-
	Complete with Y473		-
4	Shovel Body	555 2092 00	ę
ŝ	andle	ŝ	-
	lete with Y		
9	Chain Set	135 9020 00	-
	Complete with Y104, Y134 & Y170		2
5	Electric vable		-
4			Lg th
D	capie uitp Complete with Y431。Y135 &		-
	Y189		-
Ð	Plug and Socket		-
10	Rubber Tube	5070	-
11			-
	Complete with Y53, Y136 &		~
12		208 5610 00	4 -
1	Black Sleeving		-
14	Cable Gland	1660	-
15		5040	-
16		353 8550 00	
17	Thimble	443 1051 00	-
18	Bull Dog Grip		-
19	Handle Bar Grip		2
20	Shovel Complete	555 2093 00	-

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

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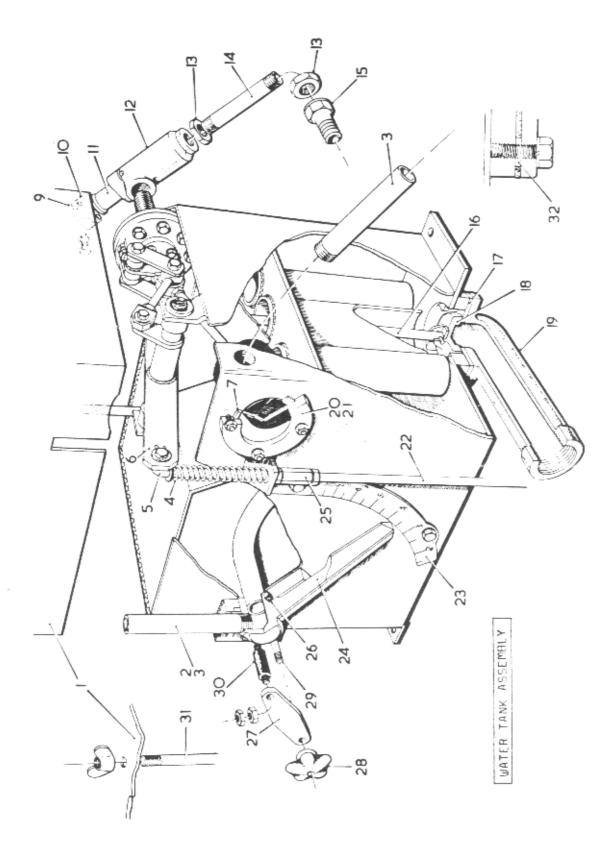


Ref	Description	Part No	Qty
-	Taper Pin	2 1081	-
2	Washer (Reset Lever)	1125	S
m	Bearing	7 3060	ы
4	nk End	513 1134 00	~
	Complete with Y9, Y122 & Y182		-
ŝ) Pin	513 1132 00	-
	ate wit		-
9	Tufnal Bush (Cam)	***	-
5	ink	5	2
	omplete with Y11,		2
80	stance Piece (Cam)	3 1130	- ·
	istance Piece (Trip Le	3 1138	-
2	ufno	3 1126	-
F	BVBL	128	۴
12	Float Valve Body	513 1116 00	
	Complete with Y3 & Y481		7
5	Pilot Valve	513 1139 00	٢
	Complete with Y461		٢
14	Pilot Valve Seat	3 1144	-
	Pilot Valve Guide	13	-
	ete wit		¢
16	2	13 1152	-
17		3 1146	-
2	Link	513 1133 00	-
	mplete with Y311		-
19	Y83 Complete with Y121 & Y481		-
20		3 1149	,
21		13 11	-
	Complete with Y310		2
22		220 3000 00	
23	Washer (Operating Lever		
		3 1131	2
24	Rubber Bush	13 1123	2
25	r Sha	13 11	6
	Complete with Y290 & Y461		2
26	pple	1 4031	- ·
27	iaphr	13 1220	- ,
28	loat Valve Cover	513 1115 00	- 1
	34, Y481		~
	Y5/+ Y121& Y481		

When Ordering :- Always Quote

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

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Spares Publication NºSIO3

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Description		Part N ^O	Qty	Ref	Description	Part No	Oty
Water Tank Cover		513 1148 00	-	26	Rubber Sealing Ring	502 8107 00	-
Air Pipe			-	27	Clamp Stirrup	8102	-
Air Pipe Extension			2	28	Locking Handle	502 8105 00	-
Compression Spring		2104	,	29			2
		502 8127 00		1	Complete with Y124 & Y312		~
complete with Yiba & Yabi Constitute (second		C17 1117 00		25	"Ubber Distance Piece		
UPPERALING LEVEL		1400		0	COVET Stud Farmiata with VSEA	00 1411 616	
Tank Borty				17	Comptete with 1200 Distance Nasher		- 1
Complete with Y13. Y123 & Y183			9	2			2
Strainer Body Cap		502 9175 00	۴				
			2				
Strainer Cap Gasket		502 9177 00	-				
Strainer Element			-				
Strainer Body		502 9172 00	-				
Backnut		240 1060 00	2				
Water Supply Pipe			۴				
Hose Connection	-		-				
Valve Rod 5	ŝ	13 1153 00	-				
Complete with Y232			2	-			
Y466			-				
Valve Seat	S	8071	۴				
	5		-				
ctor	n	02 8681 00	-				
2 & Y184			n				
		1121	-				
	U 1	513 1122 00	-				
Complete with Y3, Y121, Y181 & Y481			4				
	U)	513 1081 00	-				
ete with Y312 & Y164 DD			5				
Scale (Gallons)	u)	8155	~~				
Tank Scale (Litres)	S	513 1775 00	4	_			
Scale (Gallons and Litres)	n		4-				
4.7			2				
Indicator (used with individual							
	ŝ	502 8109 00	-				
sed with dual gallon and							
le)		1646	- ,				
		00 8018 20G	- (
Lomplete with Y372	- 2		2				

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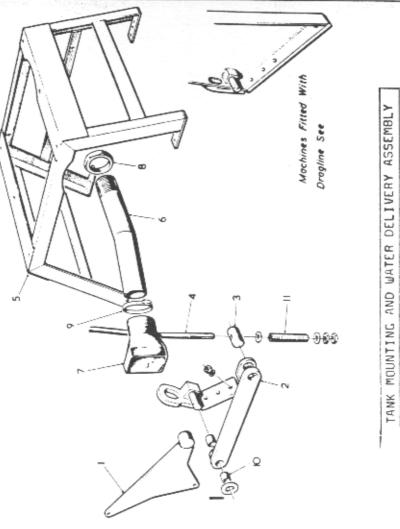




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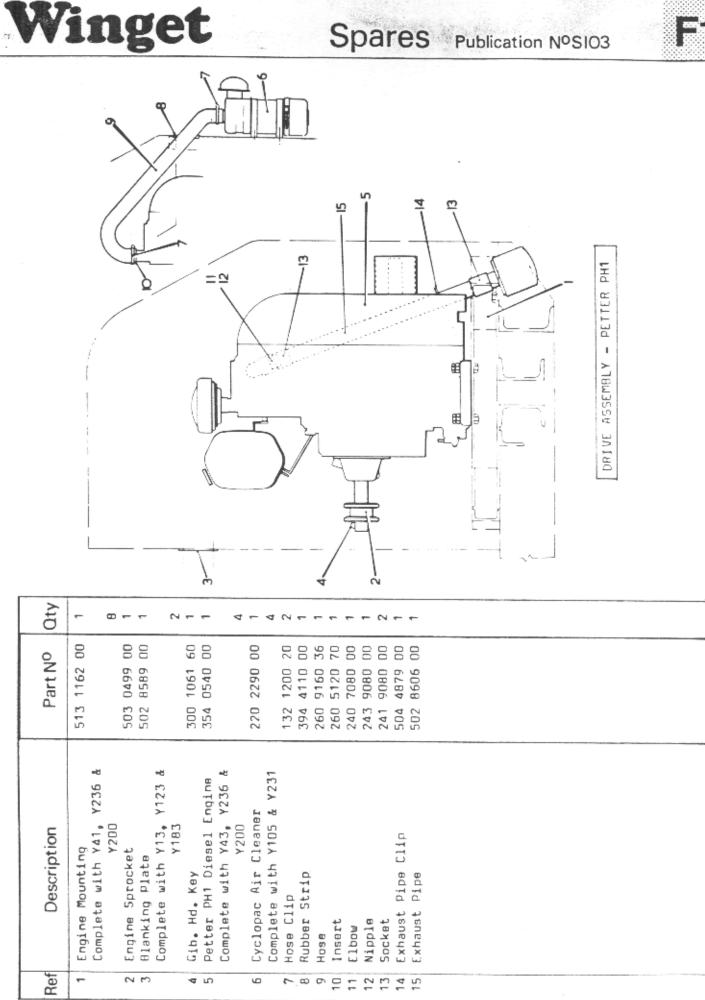
Spares Publication NºSI03



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Tri	Wat	E O D	LJ	Con	E01	Wat	Del	De l	Bac	duc	Bus	Com	
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	Trip Plate 513 1080	Trip Plate 513 1080 Water Tank Lever 513 1078	\$13 1080 & Y166	Trip Plate 513 1080 Water Tank Lever 513 1078 Complete with Y463 & Y166 513 1079 Link Pivot 513 1079	Trip Plate 513 1080 Water Tank Lever 513 1078 Complete with Y463 & Y166 513 1079 Link Pivot 513 1079 Connecting Rod 513 1081	Trip Plate 513 1080 Water Tank Lever 513 1078 Complete with Y463 & Y166 513 1078 Link Pivot 513 1079 Connecting Rod 513 1081 Complete with Y164 & Y312	Trip Plate 513 1080 Water Tank Lever 513 1078 Complete with Y463 & Y166 513 1078 Link Pivot 513 1079 Connecting Rod 513 1081 Complete with Y164 & Y312 513 1081 Water Tank Mounting 513 1075	Trip Plate 513 1080 Water Tank Lever 513 1080 Water Tank Lever 513 1078 Complete with Y463 & Y166 513 1079 Link Pivot 513 1079 Connecting Rod 513 1079 Connecting Rod 513 1079 Complete with Y164 & Y312 513 1081 Water Tank Mounting 513 1075 Delivery Pipe 504 5314	Trip Plate S13 1080 Water Tank Lever 513 1070 Water Tank Lever 513 1078 Complete with Y463 & Y166 513 1079 Link Pivot 513 1079 Connecting Rod 513 1079 Complete with Y164 & Y312 513 1075 Water Tank Mounting 504 5314 Delivery Pipe Rubber Nozzle 504 5315	Trip Plate 513 1080 Water Tank Lever 513 1078 Complete with Y463 & Y166 513 1079 Link Pivot 513 1079 Connecting Rod 513 1079 Connecting Rod 513 1079 Connecting Rod 513 1079 Connecting Rod 513 1079 Complete with Y164 & Y312 513 1075 Water Tank Mounting 504 5314 Delivery Pipe Rubber Nozzle 504 5315 Backnut 240 1160	Trip Plate 513 1080 Water Tank Lever 513 1078 Complete with Y463 & Y166 513 1079 Complete with Y463 & Y166 513 1079 Link Pivot 513 1079 Connecting Rod 513 1079 Complete with Y164 & Y312 513 1079 Water Tank Mounting 504 5314 Delivery Pipe Rubber Nozzle 504 5315 Backnut 132 1040 Dubilee Clip 132 1040	Trip Plate 513 1080 2 Water Tank Lever 513 1078 2 Water Tank Lever 513 1078 3 Link Pivot 513 1079 4 Connecting Rod 513 1079 5 Link Pivot 513 1079 5 Water Tank Mounting 504 5314 5 Delivery Pipe Rubber Nozzle 504 5315 9 Delivery Pipe Rubber Nozzle 504 5315 9 Dubilee Clip 132 1046 9 Ubilee Clip 132 1046	Trip Plate 513 1080 Water Tank Lever 513 1078 Water Tank Lever 513 1078 Complete with Y463 & Y166 513 1079 Link Pivot 513 1079 Complete with Y164 & Y312 513 1079 Complete with Y164 & Y312 513 1075 Water Tank Mounting 504 5314 Delivery Pipe Rubber Nozzle 504 5315 Backnut 132 1040 Dubilee Clip 132 1040 Bush 423 6126

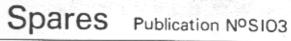
When Ordering :- Machine No, Part No, Description and Quantity

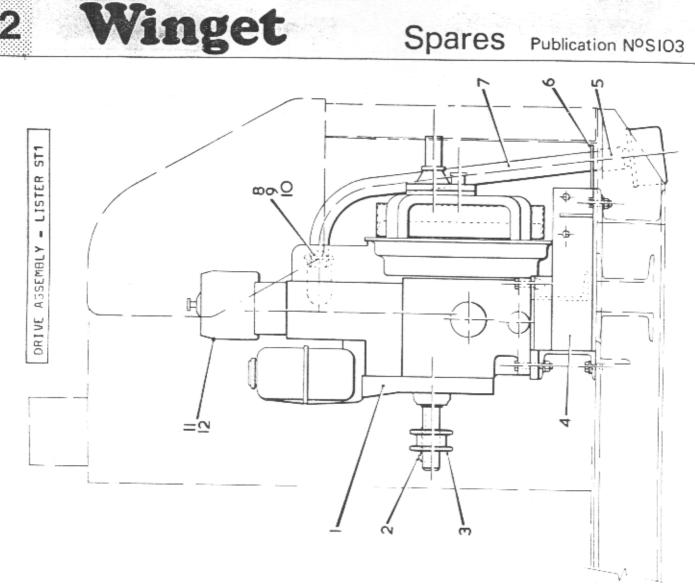
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Qty	- 2	NFFF N F FFFFFFF
Part No	354 0530 00	300 1072 40 503 1746 00 513 2129 00 513 2130 00 513 2130 00 513 2130 00 513 2569 00 513 2569 00 513 2569 00 513 2569 00 513 2569 00
Description	Lister 5T1 Diesel Engine Complete with Y42, Y236 & Y200 Y44, Y276 &	Y200 Gib. Hd. Key Engine Sprocket Engine Mounting Frame Complete with Y99, Y184 & Y200 Y39, Y236 & Y200 Y39, Y236 & Y200 Y39, Y236 & Y200 Socket Exhaust Pipe Clip Exhaust Pipe Exhaust Pipe Backnut Hexaqon Exhaust Nipple Female Bend Manifold Adaptor Bush Purolator Air Cleaner
Ref	-	NU4 00000F0



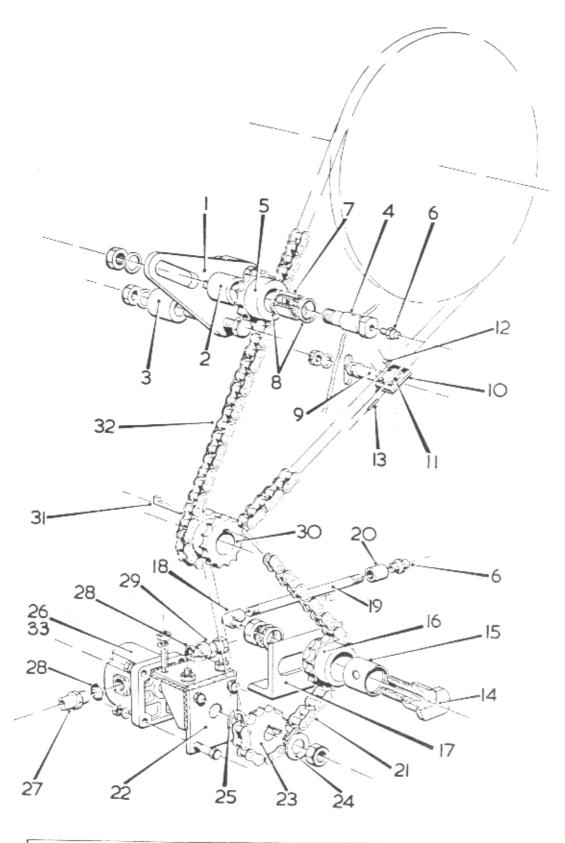
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VV	ing	,et	Spares Publication NºSIO3	T.
		DRIVE ASSEMBLY - ELECTRIC		
Qty	F F 0	NF NF NF		
Part No	3 1966 00 3 1387 00	513 2011 D0 502 8589 00 304 3120 50	2010 2010 2010	
4	5.5	ល ភូ ក	2 2 2	
Description	upport Y130 & Y130 *	ર નર નર	Key a with Y4, Y121& Y181 c Motor a with Y44, Y130 & Mounting Plate Mounting Plate a with Y95, Y128 & Y188	

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





MAIN CHAIN DRIVE AND HYDRAULIC PUMP DRIVE ASSEMBLY

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

Description P Ckey Bracket (Petter PH1 & 513) ckey Bracket (Petter ST1) > vith Y27, Y124 & Y184 513 > vith Y27, Y124 & Y184 513 > piace 513 > piace 513 > vith Y23, Y124 & Y186 513 > vith Y233 \$ 115 > oe Sheft > vith Y167 \$ 118 > oe \$ 113 > oe \$ 113 > oe \$ 114 > oe \$ 114 > oe \$ 113 > oe \$ 113 > oe \$ 113 > oe \$ 113 > oe \$ 134	W	1				E	3	6	2	1					3	5	p			e	s	1	Pu	Ы	ica	ati	or	n N	10	SI	0	3				4			2	4
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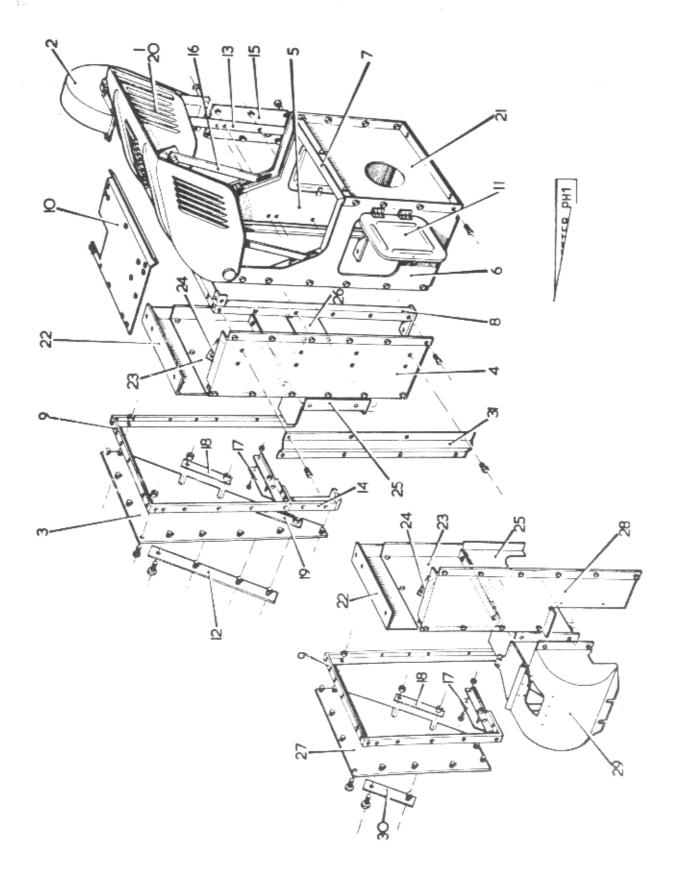
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Spares Publication NºS103



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

Winget Spares Publication NºSIO3

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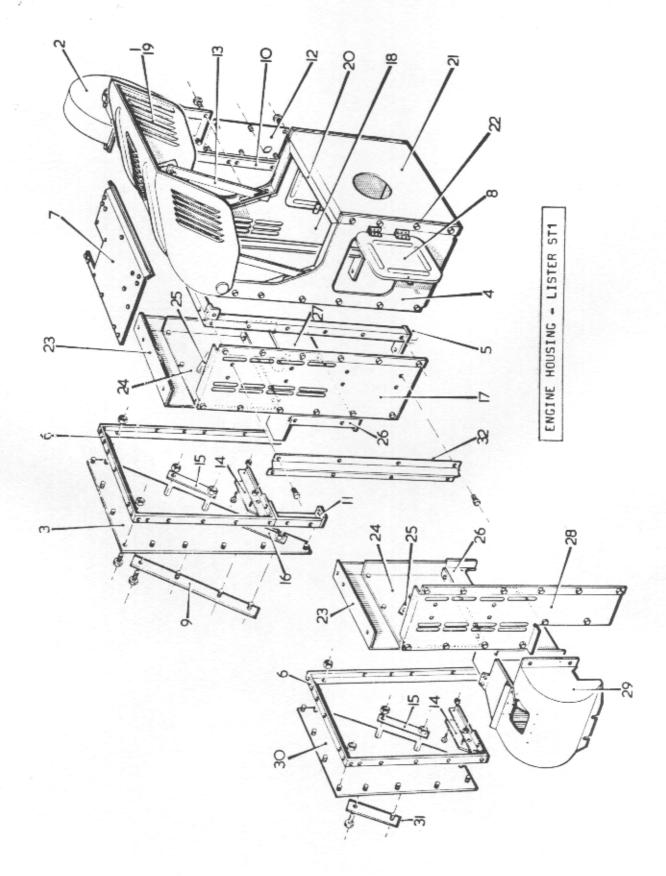
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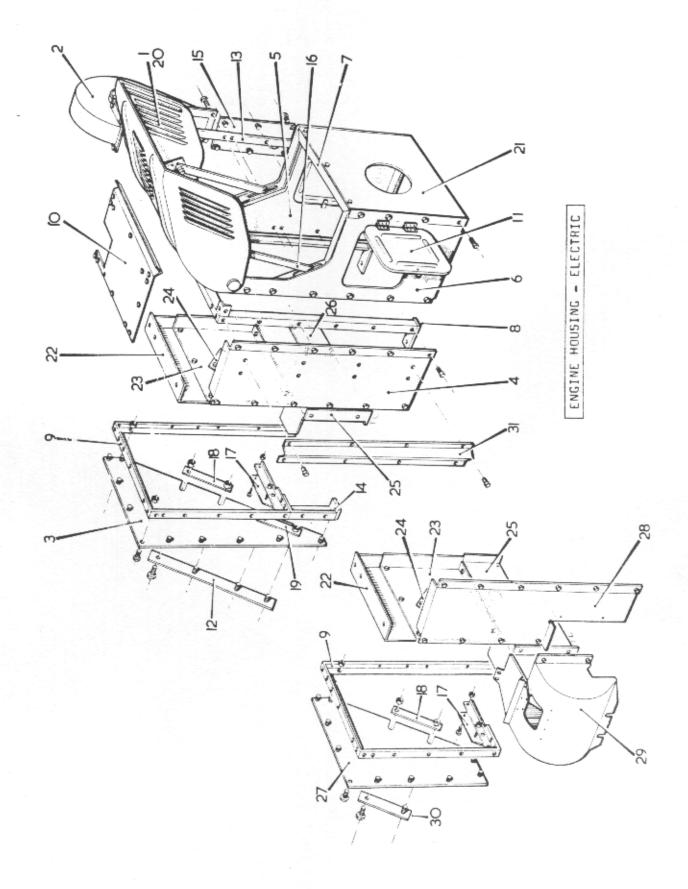
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Spares Publication NºSIO3

- 0 F	Ret	Part No	10+1	Ref	Description	Part No	ţ
- 0 -							5
() P	Engine Housing Lid	513 1056 00	1	23	Upper Guard	513 2543 00	۴-
C1 P	Complete with Y371, Y123 & Y163		2	_	Complete with Y102, Y133 & Y188		-
٢		513 1057 00	1	24	Intermediate Guard	513 2544 00	-
۲	Complete with Y13, Y123 & Y183		11	_	Complete with Y102 & Y188		5
2		513 1058 00	1	25	Cover Plate	513 2545 00	-
	Complete with Y88 & Y183		~		Complete with Y102 & Y188		2
	Y13, Y123 & Y183		n	26	Lower Chain Guard	513 2548 00	-
4	Closing Panel (Hopper Side)	513 1061 00	1	_	Complete with Y103 & Y188		2
			9	27	Cover Plate	513 2550 00	1
ŝ	Engine Housing Frame No. 1	513 1063 00	-		Complete with Y102, Y133 & Y188		n
	Complete with Y14, Y123 & Y183		4	28	Side Panel (Hopper Side)	513 1715 00	-
9	Engine Housing Frame No. 2	513 1064 00	-				11
	Complete with Y14, Y123 & Y183		n	29	Winch Guard	513 1084 00	1
2	Top Plate	513 1066 00	-		Complete with Y13, Y123 & Y183		4
	Complete with Y16, Y123 & Y183		9		Y88 & Y183		2
	Y13, Y123 & Y183		4	30	Back Plate	513 1085 00	1
	Y88 & Y183		2	_	Complete with Y13, Y123 & Y183		2
80	Side Door	513 1712 00	_	_	Y88 & Y183		5
6	Secure for Back Plate	513 1068 00		31	Secure for Back Plate	513 1087 00	•
	Complete with Y88 & Y183		80		Complete with Y88 & Y183		4
10	Backing Strip	1069	_	32	Loadcell Pipe Guard	513 1392 00	-
5	Engine Housing Frame No. 3	513 1070 00	-		Complete with Y88 & Y183		80
	Complete with Y14, Y123 & Y183		-				
12	Side Panel (Discharge Side)	513 1071 00	-				
	Complete with Y13, Y123 & Y183		9				
5	Stay	513 1072 00	_				
	Complete with Y123, Y311 & Y163		2				
14	Packer	513 1073 00	_				
	th Y15, Y						
15	panel	1074					
16	Panel Retainer	9761					
17		513 1713 00					
	Y13, Y123		5				
18	Closing Panel (Discharge Side)	513 1714 00	-				
	Complete with Y13, Y123 & Y183		12				
19	Warning Label		~				
20	Closing Panel Former	513 2133 00	-				
	Complete with Y333, Y123 & Y183		15				
21	Front Panel	513 2134 00	-				
22	Packing Strip		2				

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3 Winget

Machine No, Part No, Description and Quantity

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Spares Publication NºSI03

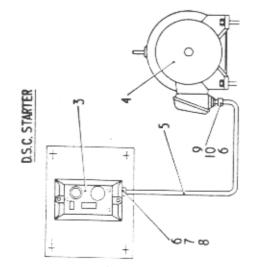
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Het	Description	Part No	aty	Ref	Description	Part No	Oty
-		513 1056 00	-	22	Upper Guard	513 2543 00	-
			2		Complete with Y102, Y133 & Y188		-
2		513 1057 00	-	23		513 2544 00	-
			11		Complete with Y102 & Y188		n
۳		513 1058 00	-	24		513 2545 00	-
	Y183		2		Complete with Y102 & Y188		2
	Y13, Y123 & Y183		ы	25		513 2547 00	-
4	Side Plate (Hopper Side)	513 1059 00	-		Complete with Y133 & Y188		2
	Y13, Y123 8		13	26	Cover Plate	513 2549 00	-
S		513 1060 00	-		Complete with Y102, Y133 & Y188		n
			12	27		513 1085 00	٢
9		513 1061 00	-		-		2
_			9				т
~	Former	513 1062 00	-	28	Side)	513 1086 00	-
	Complete with Y333, Y123 & Y183		15		Complete with Y13, Y123 & Y183		11
80	Engine Housing Frame No. 1	513 1063 00	-	29	Winch Guard	513 1084 00	-
	Complete with Y14, Y123 & Y183		4		Complete with Y13, Y123 & Y183		4
Ð	Engine Housing Frame No. 2	513 1064 00	-				2
	Complete with Y14, Y123 & Y183		ы	30	Secure for Back Plate	513 1087 00	-
10	Top Plate	513 1066 00	"	_	Complete with Y88 & Y183		4
			9	31	Loadcell Pipe Guard	513 1170 00	-
	Y13, Y123 & Y183		4		Complete with Y88 & Y183		80
	Y88 & Y183		2				
-	Side Door	1712	2				
12	Secure for Back Plate	513 1068 00	-				
	Complete with Y88 & Y183		80				
5		1069	-				
4	Engine Housing Frame No. 3	513 1070 00	-				
1	Complete with Y14, Y123 & Y183		-				
2	Side Panel (Uischarge Side)	513 1071 00	-				
4	Complete with Y13, Y123 & Y183		9				
		513 1072 00					
5	Lomplete with Y123, Y311 & Y163	100	Ν.				
-	Facker Fomolote with Vis Vion # Vign		- 0				
đ	Complete with 113, 1123 & 1133	101	7 4				
0 0	Point Parel Hetainer (Large)	4/01	- •				
	Hear Panel Hetainer (Smail) Marning Pahal	00 19/6 209					
10	Front Davel		- ,				
1	Tato -	200	-				12.11
						-	

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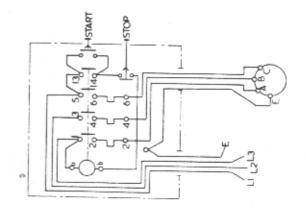
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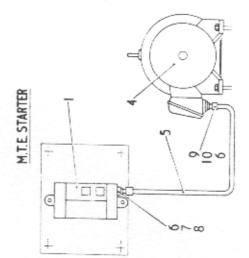


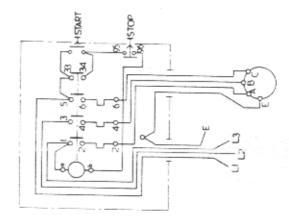


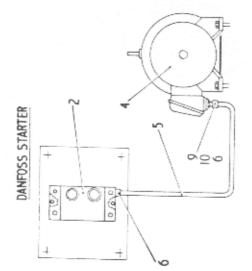
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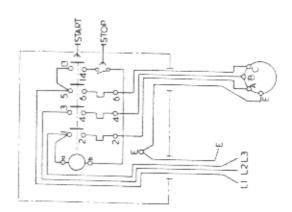
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When Ordering _____

Spares Publication NºS103

	Description	Part N ^O	Qty	Ref	Description	Part No	Oty
MTE comp	Starter lete with: Case Contactor O/L Unit	208 3996 00 208 3985 20 192 9280 21 207 8180 22					
Comp		3987 3985 9280 8180	0				
Comp	V395, Y136 & Y191 Dorman Smith Starter complete with: Case Contactor 0/L Unit	208 3997 00 208 3985 40 192 9200 44 207 8180 43	~ ~ ~ ~ ~ ~				
Plix Reduction Reduction	Electric Motor 4 Kw (5.5HP) complete with: Y44, Y130 & Y184 Pliable Conduit Coupling Locknut Brass Aush Reducing Socket (Newman Mator only) Reducing Socket (Drook Motor only)	202 4660 00 131 7700 10 131 2710 00 131 3700 00 131 5700 00 131 5120 01 131 5120 01					

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Winget



Winget FASTENINGS

REF	PART N ^O	REF	PART N ^O	REF	PART N ^O
	Hex Hd Bolts	¥52	460 5606 25	Y128	342 9100 00
		Y53	460 5605 60	Y129	330 3504 00
¥1 ¥2	460 5040 04 1/4	Y54	460 5060 36	Y130	330 3508 00
Y3	460 5040 06 / * 460 5040 08	Y55	460 5100 08	Y131	330 3520 00
Y4	460 5040 10	Y56		Y132	331 8020 00
Y5	460 5050 05 4/	Y57	460 5040 12	Y133	330 1210 00
Y6	460 5050 05 460 5050 06			Y134	330 1212 00
¥7	460 5050 08			Y135	330 1204 00
Y8	460 5050 10			Y136 Y137	330 1205 00 330 3510 00
Y9	460 5050 12		Hex Hd Screws	1151	550 5510 00
Y10	460 5050 18		Hex Hu Sclews		
Y11	460 5050 22	Y60	418 3504 05		
Y12	460 5050 26	Y81	418 3504 06		
Y13	460 5060 06 2/ -	Y82	418 3504 10		Plain Washers
Y14 Y15	460 5060 06 $\frac{3}{8}$ 460 5060 08 $\frac{3}{8}$	Y83	418 3504 12		
Y16	460 5060 12	Y84	418 3505 04	Y160	463 3020 00
Y17	460 5060 14	Y85 Y86	418 3505 06 418 3505 07	Y161	463 3030 00
Y18	460 5060 24	Y87	418 3506 04	Y162	
719	460 5060 26	Y88	418 3506 06	Y163 Y164	463 3060 00 463 3080 00
Y20	460 5060 28	Y89	418 3506 08	Y165	463 3100 00
¥21	460 5060 30	Y90	418 3508 06	Y166	463 3120 00
¥22	460 5060 54	Y91	418 3508 OB	Y167	
Y23	460 5080 08	Y92	418 3508 12	Y168	463 3200 00
Y24	460 5080 10 / 2	Y93	418 3508 14	Y169	
¥25 ¥26	460 5080 12	Y94	418 3510 12	Y170	463 3312 00
Y27	460 5080 14 460 5080 20	Y95	418 3610 08		
Y28	460 5080 28	Y96 Y97	418 2504 04		
Y29		Y98	418 2504 06 418 2506 06		
Y 30	460 5100 12 5/3	Y99			
Y31	460 5100 16	Y100	405 6060 12		Spring Washers
Y32	460 5120 18 3/c	Y101	405 6080 14	Y180	464 3030 00
Y33	400 5100 10 , 1	Y102	405 6100 20	Y181	464 3040 00
Y34	460 5160 18	Y103	405 6100 25	Y182	464 3050 00
Y35	460 5160 44	Y104	405 6120 30	Y183	464 3060 00
Y36 Y37	460 3504 11 460 3505 08	Y105	418 3505 05	Y184	464 3080 00
Y38	460 3506 14	Y106	418 3505 08	Y185	464 3100 00
Y39	460 3508 12	Y107 Y108	418 3510 16 405 0080 25	Y186	464 3160 00
Y40	460 3508 14	Y109	405 0050 25	Y187	464 2020 00
¥41	460 3508 16	. 102	400 0000 £0	Y188 Y189	464 3600 00 464 3540 00
Y42	460 3508 18		Hex Nuts	Y190	464 3550 00
Y43	460 3508 20		HEX MULS	Y191	464 3505 00
Y44	460 3508 24	Y120	331 8503 00		
Y45	460 3508 28	Y121	331 8504 00		
Y46 Y47	460 3510 14	Y122	331 8505 00		
Y48	460 3510 16 460 3510 20	Y123	331 8506 00		Taper Washer
Y49	462 3028 00	Y124	331 8508 00	VAGA	-
Y50	462 3021 20	Y125 Y126	331 8510 00 331 8512 00	Y200	
Y51	462 3022 00	Y127	331 8516 DD	Y201 Y202	465 2100 00 465 2060 00



Ref	Part N ^O	Ref	Part N ^O	Ref	Part N ^o
	Lock Washers	Y316 Y317	330 5508 00' 330 5510 00		Skt Setscrews
Y215 Y216	466 5030 00 466 6100 00			Y410 Y411 Y412 Y413	403 5604 06 403 5504 08 403 5606 08 403 5760 10
			C'sk Hd Screws	Y414 Y415	403 5608 DB 403 5608 10
Y230	Binx Nuts	Y330 Y331 Y332	400 2503 06 400 2504 08 400 2505 07		
Y231 Y232 Y233	335 7605 00 335 7606 00 335 7608 00	Y333 Y334 Y335	400 2506 06 400 2506 08 400 2510 14		Pan Hd Screws
Y234 Y235 Y236 Y237 Y238	335 7612 00 330 3605 00 330 3608 00 330 3610 00 330 3604 00	Y336 Y337	400 3026 00 400 2506 14	Y430	402 3904 20
			Skt Hd Capscrews		Studs
	Wing Nuts	Y350 Y351 Y352	404 7505 16 404 7506 16 404 7041 00	Y440 Y441	411 9061 00 411 9082 80
Y250	335 1506 00	Y353 Y354 Y355	404 7052 00 404 7061 60 404 7102 40		
			404 1102 40	×460	Split Pins
	Brass Nuts			Y460 Y461	353 3028 00 353 3038 00
Y270	334 3740 00		Rd Hd Screws	Y462 Y463 Y464	353 3041 20 353 3051 40 353 3051 60
		Y370 Y371 Y372	402 3506 06 402 3506 08 402 4102 12	Y465 Y466 Y467	353 3061 30 353 3061 60 353 3061 80
	Slotted Nuts	Y373 Y374	402 4103 D6 402 4002 D8	Y468 Y469	353 3062 00 353 3071 40
Y290	330 7506 00			Y470 Y471 Y472	353 3072 20 353 3051 20 353 3205 40
			Cup Hd Bolts	Y473	353 3225 20
	Locknuts	Y390	461 5580 DB		
Y310 Y311 Y312 Y313 Y314 Y315	302 5050 00 302 5060 00 302 5080 00 302 5100 00 302 5200 00 330 5507 00	¥395 ¥396	Ch Hd Screws 407 2705 45 407 2705 25	Y481	Fibre Washers 463 6040 00

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