Standen

Turbobeet / TRH Mk 2 Sugar Beet Harvester

Standen Engineering Ltd. Hereward Works Station Road, Ely CB7 4BP Cambridgeshire, England.

Telephone: 0353 661111

Fax: 0353 662370

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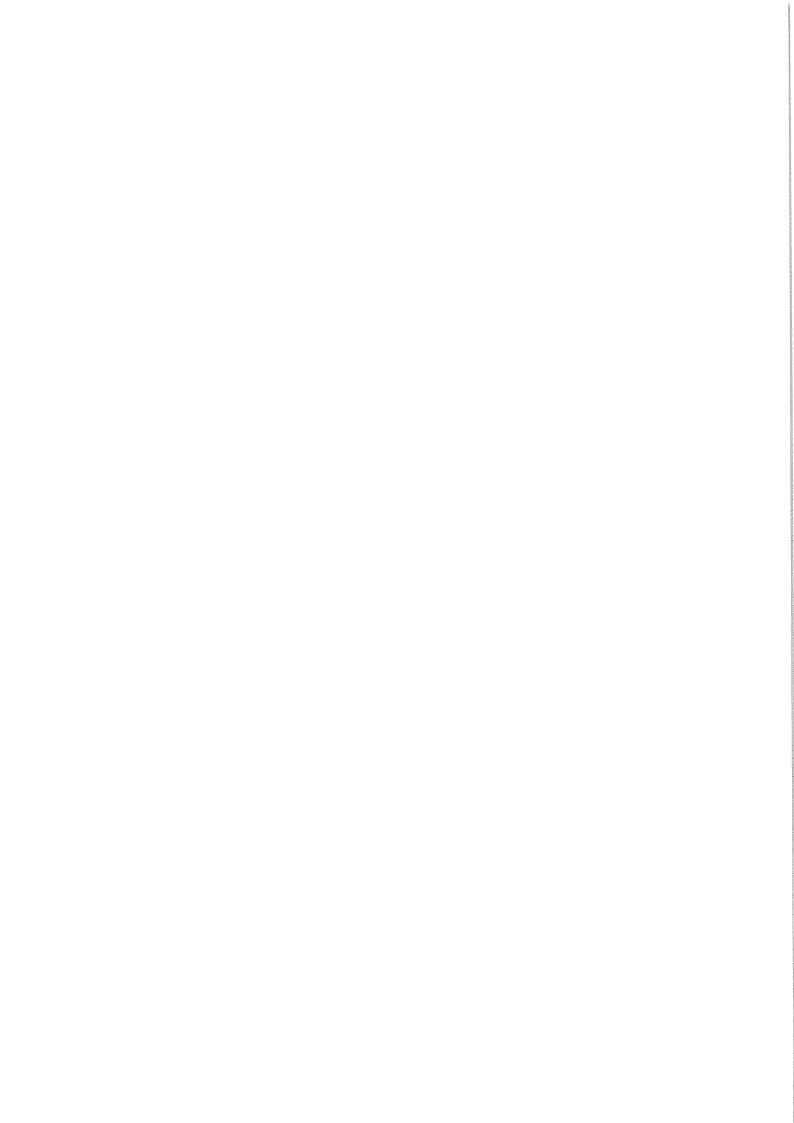
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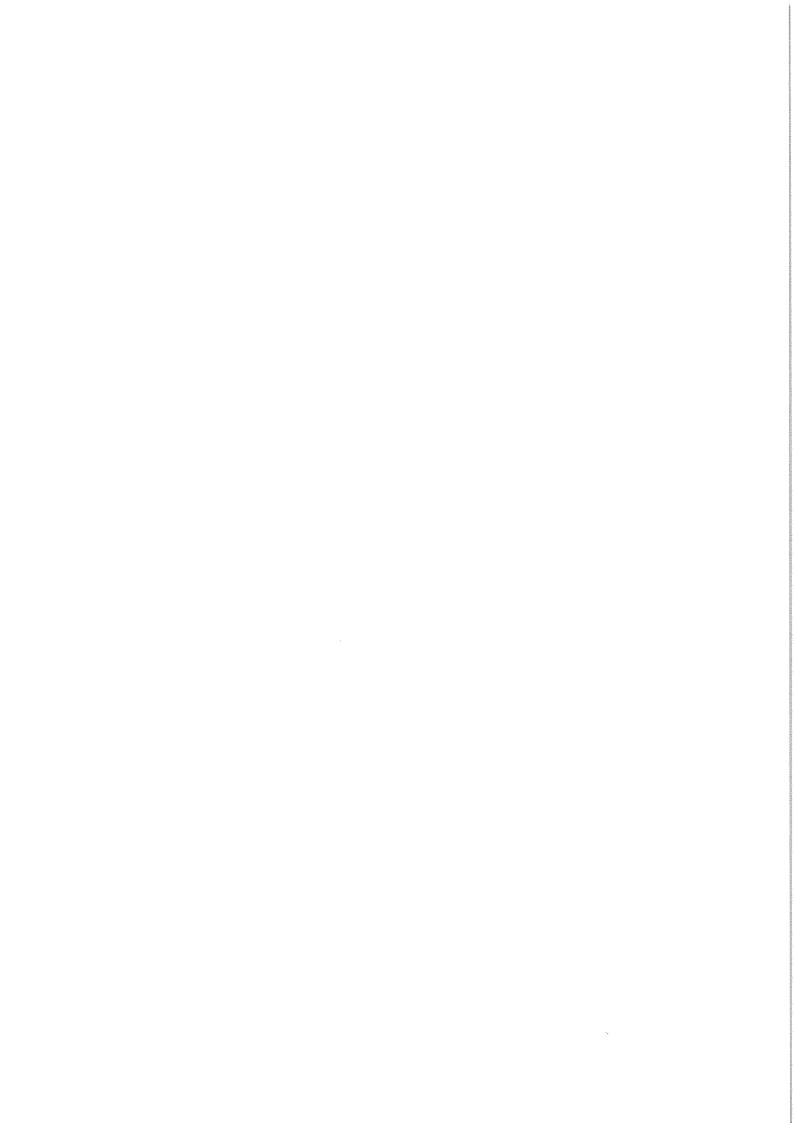
The Turbo Topper Instruction Manual will be found at the rear of the Manual.

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SECTION 1

INSTRUCTION MANUAL



Introduction

This manual provides the information for the adjustments and maintenance to help you to obtain the best results from your new Standen Lifter-Loader MK II. Before putting the machine to work, read the manual through carefully to get a full understanding of what the machine should do and how to achieve it. The instructions describe the operation of the various components, then the different settings supplied to those components enabling maximum efficiency to be obtained from the machine, adjustments may have to be made singly or in combination according to crop and soil conditions, allow the harvester to settle to a new setting before making more adjustments.

The information is based on current models but in most part could relate to earlier machines.

Any reference made to right hand or left hand applies to the machine viewed from the back.

The serial number is stamped on the front of the main frame. Always quote the serial number when ordering spare parts.

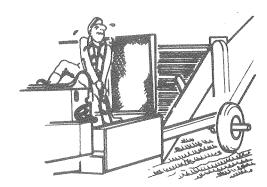
Record below details of your machine in the space provided.

Date Purchased	•				•									•							,	,
Date Started Wo	r	k		•		٠			,									,		,		•
Serial Number .																						
Agents Name						,				,						,	•					
Agents Address	•							•		•	•									٠		
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Agents Tel. No.																		_				

Safety Precautions

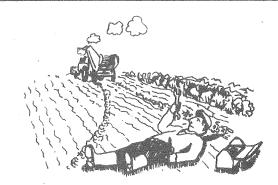
NEVER

Operate the machine with any of the safety guards removed, remember they are fitted for two reasons — to keep dirt out, and more important to protect you and others from the various working parts. So, make sure they are always kept in good condition and they are fitted correctly when the machine is in work.



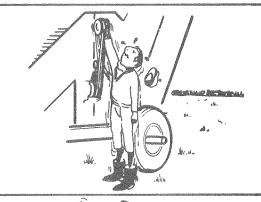
NEVER

Attempt to adjust or clean any part of the machine with the tractor power take-off in motion and always stop the tractor engine.



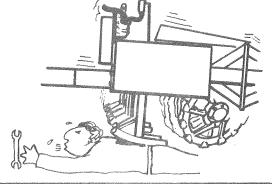
NEVER

Fit drive chains or drive belts while the drive sprockets or drive pulleys are in motion.



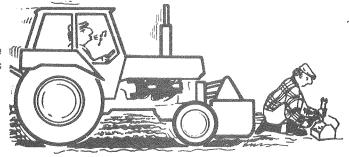
NEVER

Work under the machine when it is in a raised position on the tractor hydraulic lift linkage.



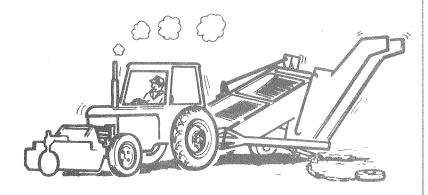
NEVER

Set the machinery in motion before of ensuring that every one in the vicinity is aware of your intention.



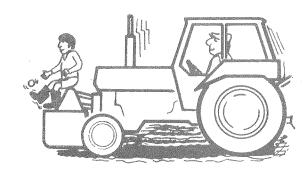
NEVER

Operate the machine in a state of disrepair.



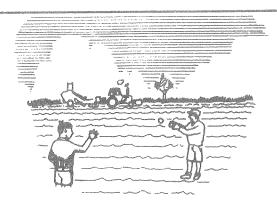
NEVER

Allow any one *especially children* to ride on the machine.



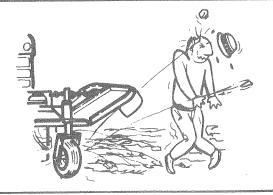
NEVER

Allow children to be in the vicinity where machines are working.



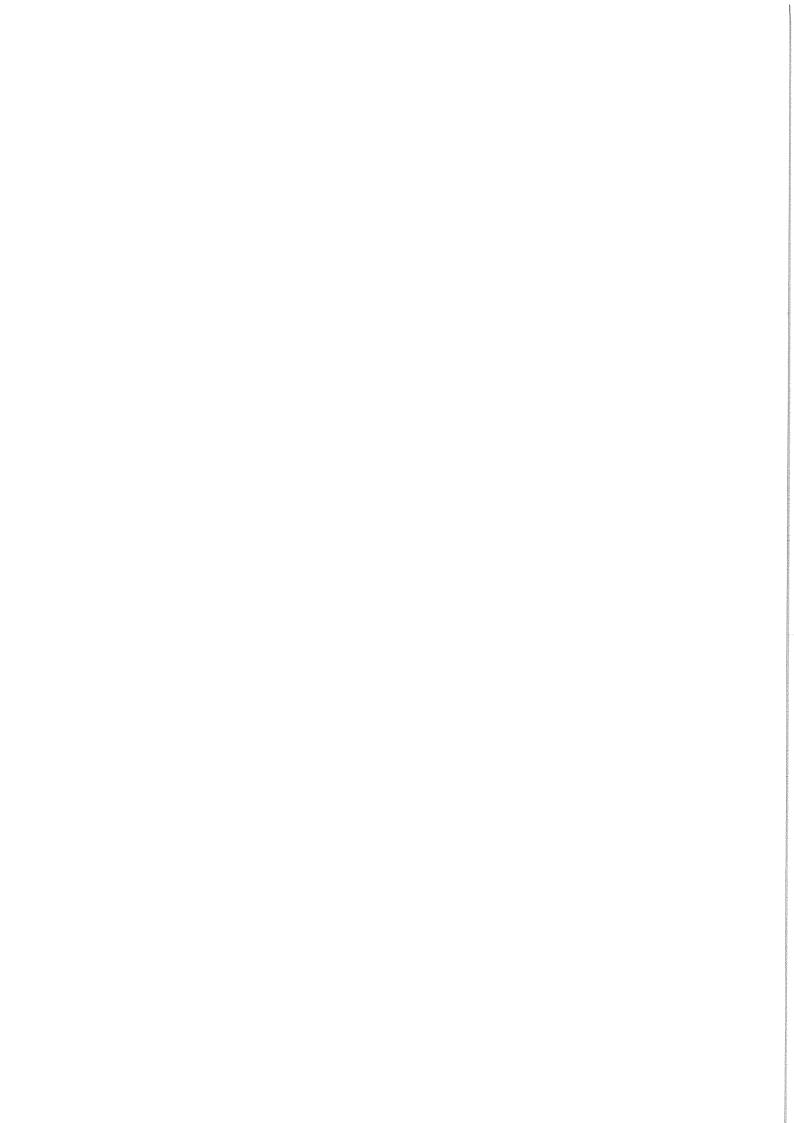
NEVER

Stand near the discharge end of the topper while machine is running.



The above list of precautions is not exhaustive. All machinery is potentially dangerous and great care must be exercised by the operator(s) at all times.

Standen Engineering Limited will not accept liability for damage or injury caused by their products except when such liability is specifically imposed by English Statute.



INSTALLATION

The Standen Lifter-Loader Mk II is a three row machine designed to lift, clean and load the sugar beet into a trailer running side the harvester. It can be used in conjunction with the Turbo-Topper, Standard Topper, Chopper Blower, Direct Loader or Flail Topper.

When the Lifter-Loader is used with a Turbo-Topper an oil reservoir and hydraulic pump is mounted to the front of the machine to provide the hydraulic power to the hydraulic motors fitted to the topping rotors.

The power required when used in conjunction with conventional toppers is 70 HP-80 HP with 540 Revs. at the P.T.O. and three point lift linkage.

When used with the Turbo-Topper the requirement is 90 HP, 540 P.T.O., and three point linkage. Check that the nuts and bolts and G.I.B. Head keys are tight, also the grub screws in the bearings, especially before starting off a new machine and during the first day or two of work.

Do not reverse or turn at the end of a row unless the machine is in a raised position.

Do not raise the machine with the P.T.O. engaged, pay particular attention to the lubrication and maintenance.

Pay particular attention to the safety precautions, they are written as a warning to protect you.

TRACTOR WHEEL SETTING SETTING INSTRUCTIONS

Both front and rear tractor wheels must be set to straddle the rows of beet. For example, if the crop is growing at 20" (50.80 cms) the distance measured between the tractor tyre centres must be 60" (152.40 cms), this will then ensure that the wheels run in centre line between the rows of beet. The instructions for adjusting tractor wheels are given in the tractor manufacturer's handbook.

SAFETY FIRST



When carrying out wheel adjustments take care to place the jack on firm ground under a solid part of the tractor. Before removing the wheel place a stout support under the tractor frame in case the jack should become dislodged.

TRACTOR LIFT LINKAGE SETTING

The drawbar, supplied with the harvester, has been made to fit category two and should be fitted between the two lower lift arms and secured with a linch pin.

The levelling lever, between the top lift arm and the lower lift arm, should be fitted in the fixed position.

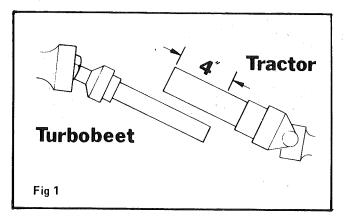
Fit the stabilizer bar and adjust so the harvester is central to the centre of the tractor.

The tractor top link is not required except when the harvester is used in conjunction with the Turbobeet.

PTO COUPLING TO TRACTOR AND HARVESTER

The PTO coupling supplied with the harvester may require cutting to a correct length to suit individual tractors. To do this the coupling should be parted and the two ends fitted to the tractor and harvester respectively. The make and female square can then be

measured alongside each other and adjustments made by cutting the surplus bar from both male and female square. At least 4" (10 cms) overlap should be allowed. After the correct length of the coupling has been obtained, the PTO coupling guard should then be cut, to correspond with the coupling. Also ensure that the rubber hood, to protect the knuckles of the PTO coupling is in place.



DISCHARGE ELEVATOR WINCH

SAFETY FIRST

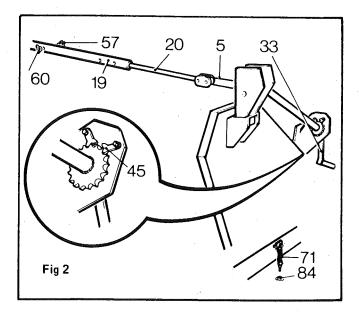


Before attempting to use the winch. Read the operating instructions carefully to familiarize yourself with the procedure of what you are about to do and how to achieve it.

The discharge elevator is fitted with the wire rope winch to facilitate the folding or unfolding of the elevator before or after transporting on the road.

UNFOLDING THE ELEVATOR FOR WORK

Remove the wing nut (Item 60 fig 2) from the bolt (Item 57 fig 2) and withdraw the bolt from the higher bolt hole. Remove the wing nut (Item 84 fig 2) from the retaining chain (Item 71 fig 2) and release the retaining chain (Item 71 fig 2) from the tension tube (inner) (Item 20 fig 2).



Turn the handle (Item 33 fig 2) to release the tension to the wire rope (Item 5 fig 2) and withdraw the tension tube (inner) (Item 20 fig 2) from the tension tube (outer) (Item 19 fig 2) until the bolt hole in the tension tube (inner) (Item 20 fig 2) is in line with the lower bolt hole in the tension tube (outer) (Item 19 fig 2).

Fit the bolt (Item 57 fig 2) into the bolt holes in both tension tubes (Items 19-20 fig 2) and replace the wing nut (Item 60 fig 2).

Turn the handle (Item 33 fig 2) ensuring that the winch ratchet pawls (Item 45 fig 2) are operating correctly and raise the discharge elevator into the upright position.

Turn the handle (Item 33 fig 2) in the opposite direction, ensuring that the winch ratchet pawls (Item 45 fig 2) are operating correctly to allow the discharge elevator to go over the centre and to be lowered into the discharge position.

FOLDING THE ELEVATOR FOR TRANSPORT

Remove the wing nut (Item 60 fig 2) from the bolt (Item 57 fig 2) and withdraw the bolt from the lower bolt hole. Turn the handle (Item 33 fig 2) to tighten the wire rope (Item 5 fig 2) to push the tension tube (inner) (Item 20 fig 2) into the tension tube (outer) (Item 19 fig 2) until the bolt hole in the tension tube (inner) (Item 20 fig 2) is in line with the centre bolt hole in the tension tube (outer) (Item 19 fig 2).

Fit the bolt (Item 57 fig 2) into the bolt holes in both tension tubes and replace the wing nut (Item 60 fig 2). Turn the handle (Item 33 fig 2) ensuring that the winch ratchet pawls (Item 45 fig 2) are operating correctly and raise the elevator into the upright position.

Turn the handle (Item 33 fig 2) in the opposite direction, ensuring that the winch ratchet pawls (Item 45 fig 2) are operating correctly to allow the discharge elevator to go over centre and to be lowered into the folding position.

With the discharge elevator resting in the folding position turn the handle (Item 33 fig 2) in the opposite direction to loosen the wire rope (Item 5 fig 2).

Remove the wing nut (Item 60 fig 2) from the bolt (Item 57 fig 2) and withdraw the bolt from the centre bolt hole.

Turn the handle (Item 33 fig 2) to tighten the wire rope (Item 5 fig 2) to push the tension tube (inner) (Item 20 fig 2) into the tension tube (outer) (Item 19 fig 2) until the bolt hole in the tension tube (inner) (Item 20 fig 2) is in line with the higher hole in the tension tube (outer) (Item 19 fig 2).

Fit the bolt (Item 57 fig 2) into the bolt holes in both tension tubes and replace the wing nut (Item 60 fig 2). Fit the retaining chain (Item 71 fig 2) to the tension tube (inner) (Item 20 fig 2) and replace the wing nut (Item 84 fig 2).

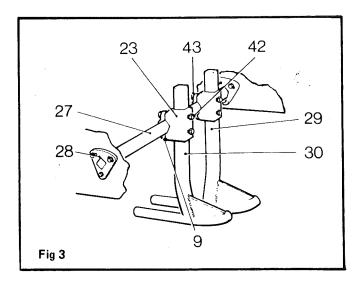
When carrying out the above operation ensure that the discharge elevator is not fouling in any way during either raising or lowering the elevator. When folding the discharge elevator from the working position to the transport position first break the web by removing the web joining pins and fit the web retaining hooks to the web and the discharge elevator tie bar allowing enough slack in the discharge elevator web to allow the discharge elevator to be folded back without stretching the discharge elevator web.

GUIDE SKIDS

The purpose of the guide skids (Items 9-30 fig 3) is to follow the row of beet in front of the lifting wheels (Item 12 fig 4) keeping the harvester in a straight line irrespective of the contours of the ground.

To set the guide skids (Items 27-30 fig 3) drive the harvester down the row of beet for a considerable distance until the required depth of the lifting wheels (Item 12 fig 4) to lift the beet efficiently has been obtained by the tractor depth control.

Stop the tractor and harvester and switch off the tractor engine, do not alter the tractor depth control, set the guide skids (Item 29-30 fig 3) to run on the ground without taking the weight of the harvester, the heels of the guide skids (Items 29-30 fig 3) should be in line with the inside front edge of the lifting wheels (Item 12 fig 4) and directed downwards with the leading curve directed upwards.



To adjust the guide skids (Items 29-30 fig 3) to or from the ground loosen the two adjusting studs (Item 42 fig 3) in the guide skid bracket (Item 23 fig 3) allowing the guide skids (Items 29-30 fig 3) to be raised or lowered as required. To adjust the width of the guide skids (Items 29-30 fig 3) loosen the clamp bolts (Item 43 fig 3) in the guide skid brackets (Item 23 fig 3) and the cap (Item 9 fig 3) and slide the brackets (Item 23 fig 3) horizontally along the guide skid support bar (Item 27 fig 3) to the required position according to the width of the beet rows

To adjust the angle of the guide skids (Items 29-30 fig 3) loosen the nuts and bolts in the adjusting slots provided in the guide skid support bar clamp (Item 28 fig 3) and turn the guide skid support bar (Item 27 fig 3).

Note:— If the front of the guide skids (Items 29-30 fig 3) are lower than the heels the blocking of loose leaf may

It is important that the check chains on the tractor lift arms (Item 1 fig 5) are adjusted to operate in a slack position, so when the tractor rear wheels ride over the different contours of the ground the harvester will carry on in a straight line guided by the skids.

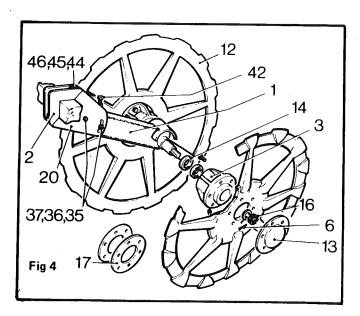
Too much slack in the tractor check chains (Item 2 fig 5) will allow the harvester to swing about when turning at the headland making it difficult to manoeuvre.

LIFTING WHEELS

The lifting wheels (Item 12 fig 4) are designed to lift the beet from the ground and transfer them to the main digger web. The working depth of the lifting wheels (Item 12 fig 4) is determined by the depth control on the tractor and according to the depth required to lift the beet from the ground without breaking off the root or lifting too much soil.

Further depth control can be effected by the angle of the lifting wheels (Item 12 fig 4), this adjustment is made by loosening the nuts and bolts (Item 35-36-37 fig 4) holding the lifting wheel mounting (Item 1 fig 4) to the lifting wheel mounting bracket (Item 20 fig 4) which is provided with slotted holes in either side to allow the lifting wheel mounting (Item 1 fig 4) to be adjusted both up and down. At the top of the lifting wheel mounting bracket (Item 20 fig 4) is fitted an adjusting set screw (Item 42 fig 4) which is provided to push down on to the lifting wheel mounting (Item 1 fig 4). The adjustment described allows the lifting wheels (Item 12 fig 4) to be raised or lowered irrespective of the harvester, it will also alter the point of the lifting of the beet in relation to the width of the lifting wheels. (Item 12 fig 4)

The working depth of the lifting wheels (Item 12 fig 4) is approximately 2 inches (51 cm).

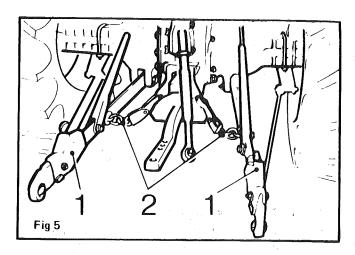


The width of the wheels at the narrowest point is from $1\frac{1}{2}$ inches (38 cm) to $1\frac{3}{4}$ inches (45 cm) and they can be adjusted by removing or adding spacers (Item 17 fig 4) between the lifting wheels (Item 12 fig 4) and the lifting wheel hubs (Item 3 fig 4).

The lifting wheel spindles on item 1 fig 4 are fitted with tapered roller bearings (Item 14 fig 4) and are adjusted by a castle nut (Item 16 fig 4) after removing the hub cap (Item 13 fig 4).

Care should be taken not to over tighten the bearings (Item 14 fig 4), adjust by turning the castle nut (Item 16 fig 4) as tight as possible while slowly rotating the lifting wheel hug (Item 3 fig 4) then slacken off one or two castlerations of the nut, (Item 16 fig 4). Secure with a new split pin (Item 6 fig 4).

The lifting wheels (Item 12 fig 4) can also be adjusted to follow rows of from 18 inches (46 cm) to 22 inches (56 cm).



To obtain these settings loosen the nuts and bolts (Items 44-45-46 fig 4) in the lifting wheel mounting bracket (Item 2 fig 4) and move the lifting wheel mounting bracket (Item 2 fig 4) horizontally along the front beam of the main frame.

TOP TRACK

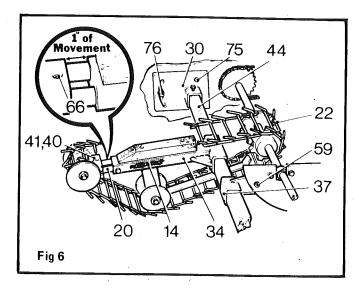
The top track (fig 6) is fitted between the lifting wheels (Item 12 fig 4) to transfer the beet onto the main digger web. Provision is made to lower or raise the top track (fig 6) which should be set high when the beet are generally large and lowered when the beet are small.

To adjust, loosen, the nuts and bolts (Items 75-76 fig 6) in the support bar brackets RH & LH (Item 30 fig 6) and the nuts and bolts (Item 59 fig 6) in the support bar clamp (Item 37 fig 6). Turn the top track support bar (Item 44 fig 6) until the top track web links (Item 22 fig 6) are in the required position. Retighten all adjusting nuts and bolts.

The top track web links (Item 22 fig 6) are self tensioned by springs (Item 14 fig 6) fitted inside the top track body (Item 34 fig 6) pushing against the top track sliding roller mounting (Item 20 fig 6).

Fitted to the top track sliding roller mounting (Item 20 fig 6) are the top track clamp blocks (Items 40-41 fig 6) designed to assist the springs (Item 14 fig 6) to retain their tension by restricting the amount of travel of the top track sliding mounting (Item 20 fig 6).

When adjusting the top track clamp blocks (Items 40-41 fig 6) ensure that the top track sliding roller mounting (Item 20 fig 6) has at least one inch of movement (fig 6) inside the top track body (Item 34 fig 6).



To adjust, loosen the two set screws (Item 66 fig 6) in the top track clamp blocks (Items 40-41 fig 6) and slide the top track clamp blocks (Items 40-41 fig 6) along the top tack sliding roller mounting (Item 20 fig 6).

SAFETY FIRST

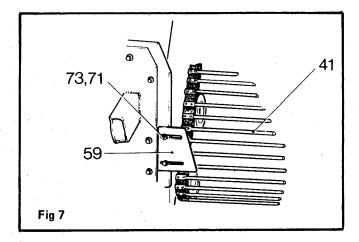


Before carrying out any adjustments switch off engine and apply the parking brake.

BEET DEFLECTORS

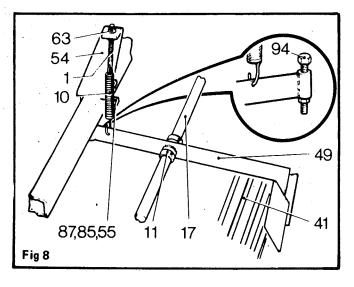
The beet deflectors (Item 59 fig 7) are fitted to trap any beet rolling down either side of the main elevator (Item 35 fig 7) and can be adjusted to suit row widths of 18 inches (46 cm) to 22 inches (56 cm).

Adjust by loosening the nuts and bolts (Items 71-73 fig 7) and slide the beet deflector (Item 59 fig 7) in the adjusting slots provided.



MAIN WEB BAFFLE PLATES

The main web baffle plates (Item 49 fig 8) are fitted to trap any beet rolling down the centre of the main elevator web (Item 41 fig 8) and must be free to lift should any obstruction (stones etc.) be trapped between the main web baffle plates (Item 49 fig 8) and the main elevator web (Item 41 fig 8). Downward pressure is applied by the tension of the springs (Item 10 fig 8) which are tensioned by turning the adjusting nut (Item 63 fig 8) fitted to the spring tensioner. (Item 1 fig 8).



Adjustment is also provided to increase or decrease the distance between the main elevator web (Item 41 fig 8) and the baffle plates (Item 49 fig 8). The distance is determined by the size of the sugar beet, if small beet are being lost suspect that the distance is too great and lower the baffle plates (Item 49 fig 8) to the main elevator web (Item 41 fig 8), this adjustment is carried out by turning the adjusting set screw (Item 94 fig 8).

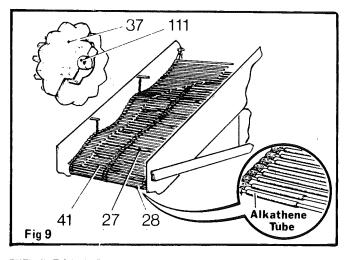
Adjustment is also provided to move the main web baffle plates (Item 49 fig 8) horizontally along the baffle plate pivot bar (Item 17 fig 8) to be in line with the position of the lifting wheels (Item 12 fig 4). To adjust, loosen the set screws in the collars (Item 11 fig 8) fitted to either side of the main web baffle plate (Item 49 fig 8) at the baffle plate pivot point, also the tension spring bracket (Items 54-55 fig 8) retaining nuts and bolts (Items 54-55 fig 8) in line with the baffle plates (Item 49 fig 8).

MAIN ELEVATOR

The main elevator consists of a main elevator web (Item 41 fig 9) to transfer the beet to the trash extractor. Suspended over the main web is a cleaning web which can be adjusted to determine the amount of cleaning required by lowering the cleaning web to the main elevator web and restricting the flow of beet, at the same time rubbing against the beet giving a cleaning action to the beet. To help to reduce small beet losses alkathene tubes are available to fit over the main elevator web links (Items 27-28 fig 9) so reducing the width of the link by approximately % in. (9.5 mm).

The width between the main web links is, continental without alkathene tubes fitted 2½ in. (54 mm), continental with alkathene tubes fitted 1½ in. (42 mm), steel web without alkathene tubes fitted 1½ in. (47 mm), steel web with alkathene tubes fitted 1½ in. (38 mm).

The main elevator web sprockets (Item 37 fig 9) are the split type sprockets and can be removed and new sprockets fitted without the need to remove the main web shaft (Item 111 fig 9), note, before splitting the main elevator web sprockets (Item 37 fig 9) mark the two halves of the sprockets with a chisel or chalk mark, this will ensure that the same two faces are matched together when refitting.



TRASH EXTRACTOR

The trash extractor consists of two webs running side by side on to which the beet and trash are thrown from the main elevator web, the beet then roll down the trash extractor webs and onto the cross elevator.

The trash extractor webs are fitted with six down links (Item 24 fig 10) to one up link (Item 23 fig 10), each alternate up link is fitted with spikes (Item 25 fig 10) to prevent the trash from being knocked down the trash extractor web by the rolling sugar beet.

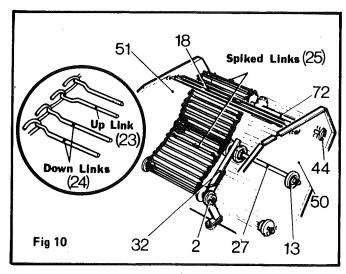
When the trash is dense extra spiked links (Item 25 fig 10) can be fitted in the place of plain links (Items 23-24 fig 10).

The up and down web link sequence can be rearranged according to the crop conditions, for example, where a lot of small beet are dominant it is possible that beet will be lost between the trash extractor web and the trash extractor flat (Item 18 fig 10) because the small beet sitting on an up link (Item 23 fig 10) can be pulled through and discharged out of the back with the trash. When the up links (Item 23 fig 10) are exchanged for down links (Item 24 fig 10) less small beet are likely to be lost.

The trash extractor is also adjustable to the vertical position by moving the rollers and the trash extractor web shaft in the various holes provided in the trash extractor side plates, the adjustments should be carried out according to the amount of trash to be removed. When the trash is dense the webs should be adjusted to a flat position, or if a small amount of trash is evident, adjust to an upright position.

To adjust the trash extractor web into the flat position, move the rollers (Item 2 fig 10) into the forward holes provided in the trash extractor side plate RH – LH (Items 50-54 fig 10) and move the trash extractor roller support (Item 32 fig 10) into the forward holes also provided in the trash extractor side plate RH – LH (Items 50-51 fig 10) ensuring that the four rollers (Item 2 fig 10) are directly in line.

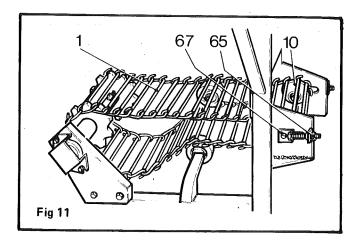
The main web top tie bar (Item 27 fig 10) fitted with the support rollers (Items 13 fig 10) is moved into the centre holes provided in the trash extractor side plate RH – LH (Items 50-51 fig 10).



The trash extractor web shaft (Item 72 fig 10 and bearings (Item 44 fig 10) are moved into the rear holes provided in the trash extractor side plate RH – LH (Item 50-51 fig 10).

To adjust the trash extractor to a vertical position the reverse of the procedure is employed. To tension the trash extractor webs, remove or add links as required.

Note:- Whenever adjustment is made by moving the trash extractor web shaft (Item 72 fig 10) the trash extractor flap (Item 25 fig 10) must also be moved into



the adjusting holes provided in the trash extractor side plate (Items 50-51 fig 10).

REAR ELEVATOR WEB

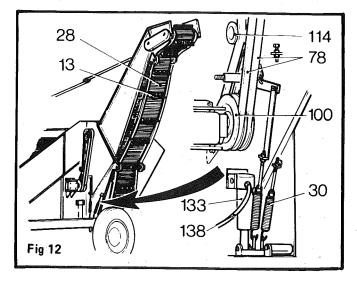
The rear elevator web is fitted to collect the sugar beet from the trash extractor and convey them onto the discharge elevator, there are no adjustments necessary to alter the position or angle of the web.

To tension the web, loosen the nut holding the roller (Item 10 fig 11) in the rear elevator roller adjuster (Item 67 fig 11) and turn the adjusting nut (Item 65 fig 11) down the rear elevator roller adjusted (Item 67 fig 11).

When all the adjustment has been taken up on the rear elevator roller adjuster (Item 67 fig 11) slacken off the adjusting nut (Item 65 fig 11) and remove a web link (Item 1 fig 11) from the rear elevator web. This will then provide more adjustment for the rear elevator roller adjuster (Item 67 fig 11).

DISCHARGE ELEVATOR

The discharge elevator consists of a single web (Item 28 fig 12) to which is fitted the discharge elevator lats (Item 13 fig 12). It is provided to transfer the beet into a trailer running along the side of the harvester. The discharge elevator is driven by two V. Belts (Item 78 fig 12) running side by side in the two double pulleys (Item 100 fig 12) and is always in operation while the beet lifting is in progress by the tension of the two V. Belts (Item 78 fig 12) via the hydraulic ram (Item 133 fig 12) which is coupled to the tractor external hydraulics by the hydraulic hose (Item 138 fig 12) and operated from the tractor seat.



To stop the discharge elevator from rotating the oil pressure is released to the hydraulic ram (Item 133 fig 12) by the tractor external hydraulic control, the hydraulic ram (Item 133 fig 12) is then closed by the tension of the ram return spring (Item 30 fig 12) at the same time releasing the pressure of the jockey roller (Item 114 fig 12) to the drive belts (Item 78 fig 12).

SAFETY FIRST



Remember that all revolving drive chains, shafts, sprockets and pulleys are potentially lethal so before carrying out any adjustments disengage P.T.O., switch off engine, and set the hand brake.

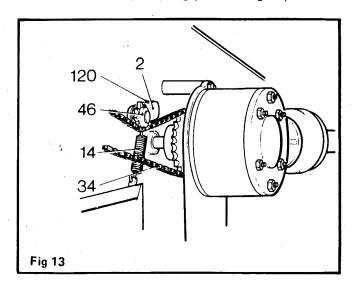
MAIN DRIVES

The various main drives consist of drive shafts, drive chains and sprockets. Each drive chain is fitted with a tensioner which is either self adjusting or manual adjusting, a self adjusting tensioner keeps the drive chain under constant tension by the force of a spring pulling the tension arm and tension shaft sprocket onto the drive chain so that any slack in the drive chain caused

MAIN ELEVATOR DRIVE

(Self Adjusting)

A self adjusting tensioner is fitted to the main elevator drive chain (Item 34 fig 13). The tensioner consists of a jockey arm (Item 2 fig 13) fitted with a jockey sprocket (Item 45 fig 13) and a jockey arm spigot (Item 120 fig 13) and is tensioned by a spring (Item 14 fig 13).



TRASH EXTRACTOR DRIVE

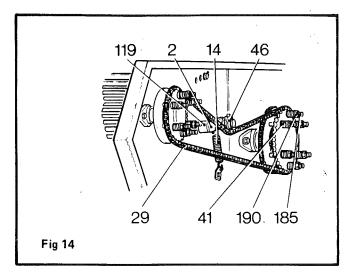
(Self Adjusting)

The tensioner fitted to the trash extractor drive chain (Item 29 fig 14) consists of a jockey arm (Item 2 fig 14) fitted with a jockey sprocket (Item 46 fig 14) and a jockey arm spigot (Item 119 fig 14) and is tensioned by a spring (Item 14 fig 14).

DISCHARGE ELEVATOR DRIVE

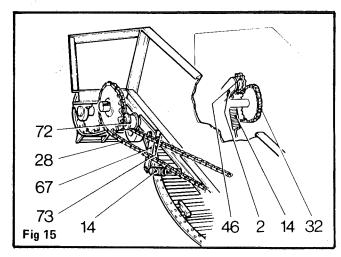
(Self Adjusting)

A self adjusting tensioner is fitted to the drive chain (Item 28 fig 15) and consists of the jockey arm (Item 67 fig 15)



fitted with a jockey roller (Item 72 fig 15) and a jockey arm spigot (Item 73 fig 15) and is tensioned by a spring (Item 14 fig 15).

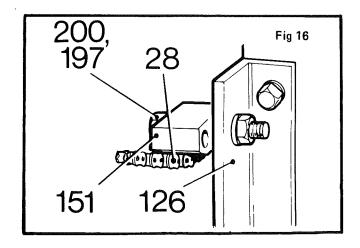
The secondary drive chain (Item 32 fig 15) is self adjusting by a jockey arm (Item 2 fig 15) fitted with a jockey sprocket (Item 45 fig 15) and tensioned by the spring (Item 14 fig 15).

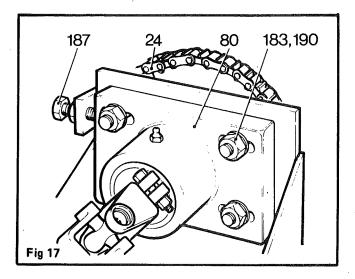


REAR ELEVATOR

(Manual Adjusting)

To tension the rear elevator drive chain (Item 28 fig 16) loosen the nut and bolt (Items 197-200 fig 16) securing the chain tension block (Item 151 fig 16) to the chain tension bracket (Item 126 fig 16) and press the chain tension block (Item 151 fig 16) down onto the chain. Retighten the nut and bolt (Items 197-200 fig 16).

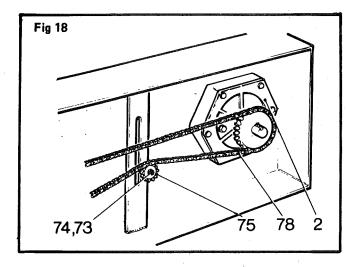




MAIN DRIVE

(Manual Adjusting)

The main drive chain (Item 24 fig 17) is a 1 inch pitch chain and adjustment to the chain is provided by loosening the four nuts and bolts (Items 183-190 fig 17) in the bearing housing (Item 80 fig 17) and turning the adjusting screw (Item 187 fig 17) against the bearing housing (Item 80 fig 17) until the required tension is achieved. Retighten the four nuts and bolts (Items 183-190 fig 17).



HYDRAULIC PUMP GEAR BOX DRIVE

(Manual Adjusting)

The drive chain (Item 78 fig 18) to the gear box (Item 2 fig 18) is tensioned by loosening the nut and bolt (Item 73-74 fig 18) securing the plastic sprocket (Item 75 fig 18) to the underside of the bottom run of the drive chain (Item 78 fig 18) and pulling the plastic sprocket (Item 75 fig 18) upwards. Retighten the nut and bolt. (Item 73-74 fig 18).

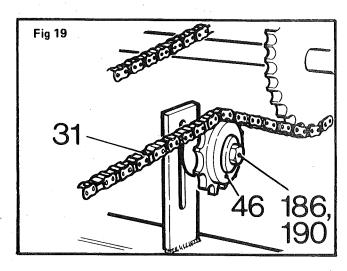
TOP TRACK DRIVE

(Manual Adjusting)

Loosen the nut and bolts (Items 186-190 fig 19) securing the plastic sprocket (Item 46 fig 19) to the underside of the bottom run of the drive chain (Item 31 fig 19) and pull the plastic sprocket (Item 46 fig 19) upwards. Retighten the nut and bolt (Items 186-190 fig 19).

SAFETY CLUTCHES

Each of the main drives are protected by a safety clutch fitted at the input end of the drive, the safety clutch is designed to allow the drive chains and the drive sprockets to turn independently of the elevators should any of the elevators become obstructed. The efficiency of the safety clutch is determined by the correct adjustment of the clutch springs (Items 41 fig 14). To adjust the clutch springs turn the lock nut (Item 190 fig 14) down the bolt (Item 185 fig 14) giving each nut an equal number of turns until all the looseness is taken up. If the clutch slips when loaded and in work tighten each clutch spring (Item 41 fig 14) by turning each lock nut (Item 190 fig 14) down each bolt (Item 185 fig 14) by one flat of the lock nut (Item 190 fig 14) at a time.



LUBRICATION

Correct lubrication should be employed to ensure the full life of the various working parts and the efficient operation of the machine.

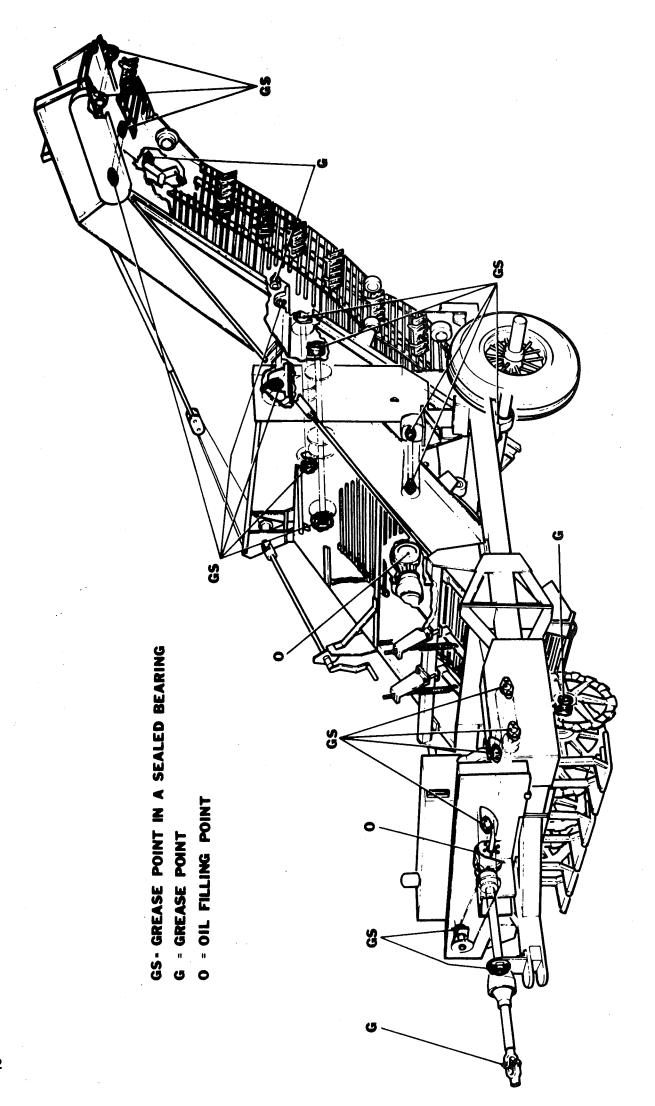
A general purpose grease should be used for the bearings and the universal coupling drives. The gear-box should be filled with a S.A.E. 90 oil to an inch below the gear-box filler hole. (Ref. 'O'). On Hiton boxes to the level plug.

Note that some of the bearings are sealed and prelubricated (Ref. 'G.S.') and care should be taken not to flood these bearings with grease or the seals will burst allowing the grease to escape and dirt to get in, should this happen, more frequent greasing will be required in order to keep the dirt at bay. When lubricating sealed bearings, only two or three strokes of the grease gun every twenty acres of work are all that is required.

The non-sealed bearings (Ref. 'G') should be greased at least once a day or every ten acres.

Particular care must be taken to ensure that grease or oil does not come into contact with the ferodo discs fitted to the safety clutches.

Grease points requiring the individual quantities of lubrication will be found in the lubrication points chart.



FAULTS, CAUSES AND CORRECTIONS

When considering faults and pinpointing causes most if not all Harvesting problems can be overcome by the correct setting of tractors and machines. Although, throughout this section of the operators handbook we have been considering the MK II Lifter Loader only, some of the faults can be attributed to the particular preceding Topper, so, before attempting to alter any part of the Harvester examine the quality of the Topping to try to isolate the cause.

FAULT	POSSIBLE CAUSE(S)	CORRECTION
Sides of beet shaved off.	Lifting wheels too close together.	Increase distance between wheels by adding spacers between the wheel and the wheel hub.
Harvester not running in a straigt line.	Left hand harvester wheel not running in groove made by previous lifted row.	After openings have been made, set wheel to follow lifted row.
	Harvester not fitted central to tractor.	Reset harvester at draw bar. Ensure that check chains on tractor lift arms are adjusted equally.
Beet knocked over (by lifting wheels)	Lifting wheels too close together.	Increase distance between lifting wheels by adding spacers between the wheels and wheel hubs.
	Lifting wheels not working deep enough.	Increase penetration on the tractor depth control.
		Raise the lifting wheels as high as possible in the slots provided in the lifting wheel mounting.
		Add weight to the front of the harvester frame.
	Guide skids set too deep, weight of harvester being carried on guide skids.	Reduce the depth of the guide skids by adjusting to a lower hole in guide skid leg.
	Driving too fast for crop conditions.	Reduce forward speed.
Beet knocked over (by tractor wheels)	Wheels set too narrow, causing the sides of the tyre to loosen the beet.	Check wheel settings. Adjust wheels to run central to beet rows.

FAULT	POSSIBLE CAUSE(S)	CORRECTION
Beet knocked over (by tractor wheels)	Operator not driving central to row.	Select a point on the tractor to drive by or fit a drop marker to the tractor central over row of beet.
Too much soil being lifted.	Lifting wheels too deep in the ground.	Reduce penetration on the tractor depth control.
-	Lifting wheels too far apart.	Decrease distance between wheels by removing the spacers between the lifting wheels and lifting wheel hubs.
	Lifting wheels set too high in the lifting wheel mounting causing the lifting wheels to penetrate at their widest point.	Lower lifting wheels and reset depth control on the tractor to higher position, when the correct depth has been obtained, readjust guide skids.
	Small beet or beet growing irregular in row.	As above.
Too much soil and trash in load.	Cleaner apron suspended over main elevator not restricting the flow of beet.	Adjust the apron to the best position to restrict the beet flow. Add weight to the apron.
	Trash extractor too vertical.	Adjust to an upright position. Replace plain links with spike links.
	Trash extractor safety clutch slipping.	Adjust safety clutch by equal turns of the clutch spring adjusting nuts.
Beet looses. (Below ground)	Lifting wheel not working deep enough.	Increase penetration on the tractor depth control.
·	Guide skids adjusted too deep.	Reduce the depth of the guide skids in the guide skid brackets.
	Lifting wheels too wide apart.	Decrease distance between wheels by removing the spacers between the wheel and hubs.
	Worn lifting wheels.	Renew wheels.

FAULT	POSSIBLE CAUSE(S)	CORRECTION				
Beet losses. (Below ground)	Lifting wheel hub spindles bent.	Renew lifting wheel mounting.				
	Lifting wheels incorrectly set to the beet rows.	Check harvester in relation to beet rows.				
	Inacurate steering.	Steer correctly. Re-check guide skids.				
	Driving too fast in relation to crop conditions.	Reduce forward speed and check if results improve.				
Beet losses. (Above ground)	Beet knocked out of the ground by lifting wheels.	Fit spacers between the lifting wheels and the lifting wheel hubs to wider the wheels.				
	Beet lost between web links.	Fit alkathene tubes to web links to decrease the distance between the links.				
	Beet lost through the spokes of the lifting wheels.	Fit lifting wheel "Spiders" designed to half the distance between the lifting wheel spokes.				
	Beet rolling off the front of the main digger web.	Check if Beet deflectors or baffle plates bent or lost or out of adjustment. Top track between lifting wheel set too low.				
	Too many 'up' links in trash extractor web.	Replace 'up' links with 'down' links.				
· .	Trash extractor adjusted too flat.	Adjust to vertical position.				
· ,	Beet lost when discharging into trailer.	Ensure that trailer is central to the discharge elevator. Do not over fill the trailer.				
Web links unhooking.	Web links badly worn.	Renew links.				
	Web links too slack.	Adjust by removing the required number of links to tension web.				

DISCHARGE ELEVATOR

(HYDRAULIC FOLDING)

The discharge elevator is fitted with a double acting hydraulic ram, to facilitate the folding or unfolding of the elevator before or after transporting on the road. The ram is coupled to the tractor external hydraulics, via two hydraulic hoses and their quick release couplings and is operated from the tractor seat.

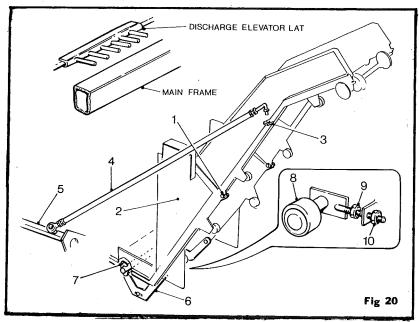
UNFOLDING THE ELEVATOR FOR WORK

- 1. Remove the two securing bolts (item 1 fig. 20) from the discharge elevator bottom frame (item 2 fig. 20).
- Operate the ram to unfold the elevator.
- 3. Once the elevator is in the working position secure it by replacing the securing bolts (item 1 fig. 20).
- 4. Position the elevator stay (item 4 fig. 20) by locating the hook end of stay in the lug (item 3 fig. 20) on the elevator and locate the bottom end of the stay over the pin on the main web support bar (item 5 fig. 20).
- 5. Swing the bottom roller support (item 6 fig. 20) into the working position and secure with the latch (item 7 fig. 20).

FOLDING THE ELEVATOR FOR TRANSPORT

- 1. Before attempting to fold the elevator one of the lats on the web must be positioned just above the main frame as shown in fig. 20.
- 2. Release the bottom roller support (item 6 fig. 20) by pulling back the latch (item 7 fig. 20).
- Remove the elevator stay (item 4 fig. 20).
- 4. Remove the two securing bolts (item 1 fig. 20).
- Operate the ram to fold the elevator.

If the hydraulic ram has been disconnected and reconnected again, then no attempt must be made to operate it until the ram has been bled to eliminate any air present in the system. Also the hydraulic ram must never be operated with the restricters removed.



DISCHARGE ELEVATOR

(WEB TENSION ADJUSTMENT)

The discharge elevator web can be adjusted for tension. To tension the web loosen the bottom roller (item 8 fig. 20) (a spanner can be located on the flats of the roller spindle) loosen the lock nut (item 9 fig. 20) and turn the adjusting nut (item 10 fig. 20) clockwise or anticlockwise to obtain the required tension. After the adjustment has been made tighten the lock nut (item 9 fig. 20) and resecure the bottom roller.

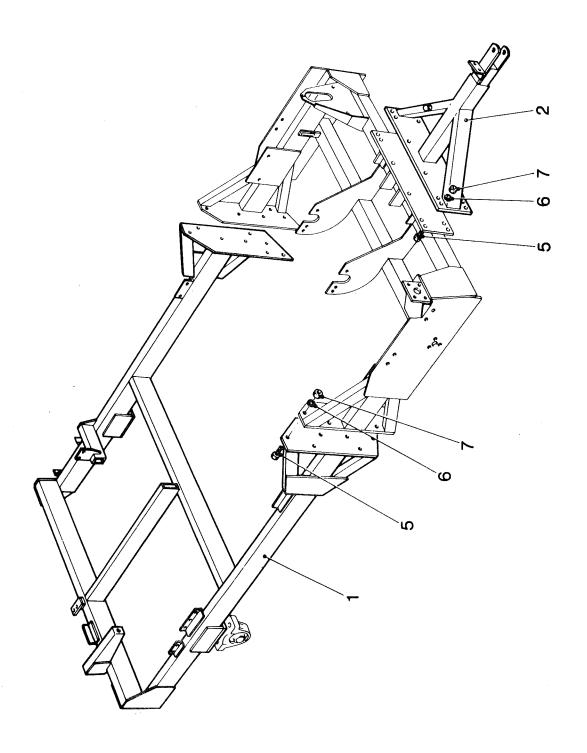
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SECTION 2

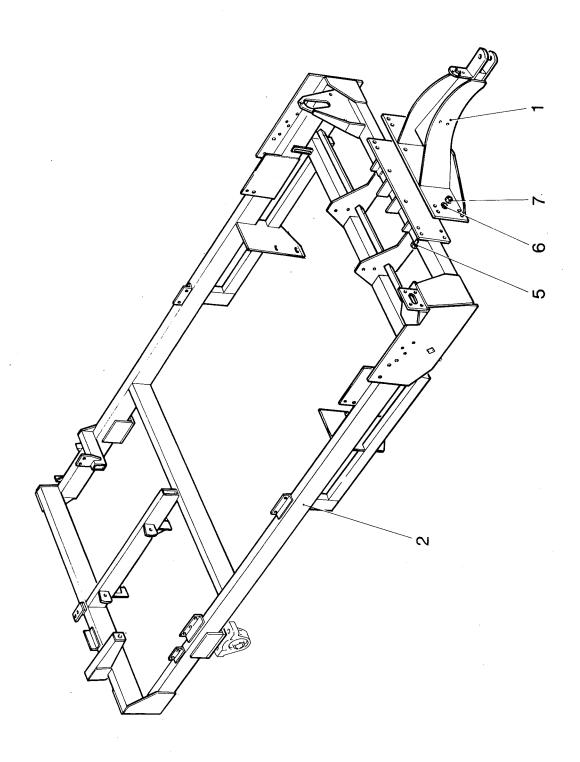
EXPLODED PARTS ILLUSTRATIONS



Mainframe & Drawbar

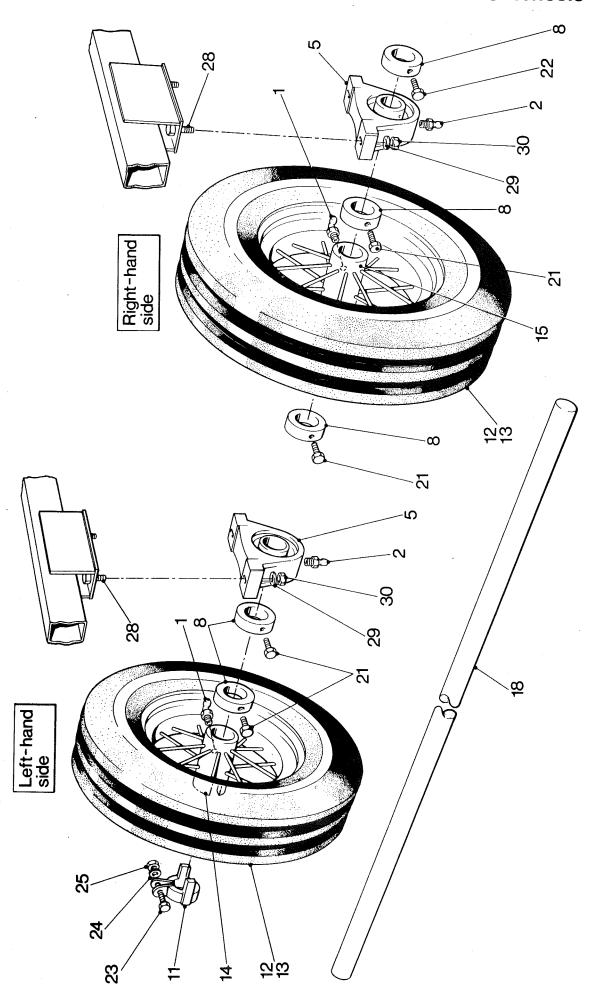


Item No	Part No.	Description	Qty per Assy	Remarks
1 2 3	11010 11015 11300	Mainframe Drawbar Drawbar	1 1 1	Turbobeet only TRH Mk. 2 only
4 5 6 7		M16 x 40mm Hex Hd Bolt M16 Spring Washer M16 Nut	22 22 22	
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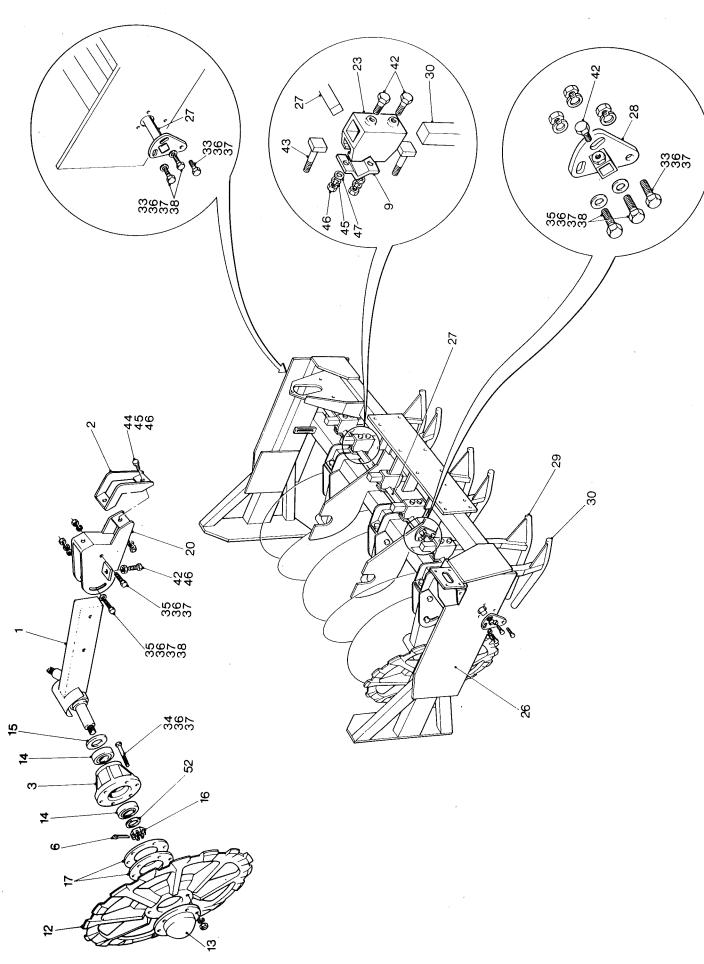
tem No	Part No.	Description	Qty per Assy	Remarks
1 2 3	11413 ** 11425	Swan Neck Drawbar Main Frame	1	Replaced by 11829 from Serial No. TRHY 1544 and Turbobeet Y228
4 5 6 7		M16 x 40mm Hex Hd Bolt M16 Spring Washer M16 Nut	8 8 8	·
				PEOM SECIAL NO. TOCKOBERT - TB 277A. TEHMER - LLIS84B. PART NO IS 11869.
				·
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Axle & Wheels



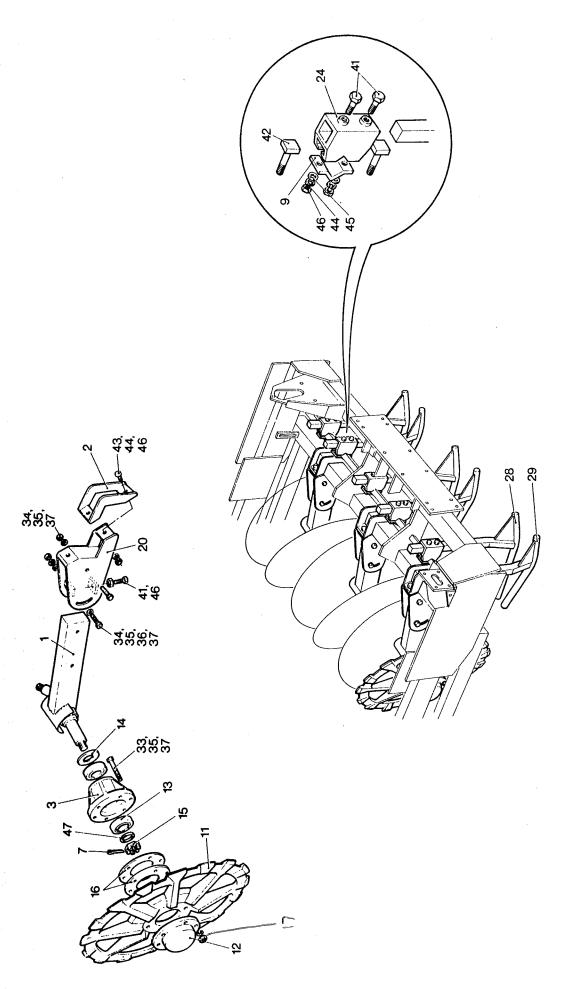
Item No	Part No.	Description	Qty per Assy	Remarks
1 2 3	GS 409 GS 450	Grease Nipple Grease Nipple	2 2	
4 5 6	SLG 2¾in	Bearing	2	
7 8 9 10	TBM 11A	Collar 2% in Bore	5	
10 11 12 13 14 15 16	TBM 91 TBM 92A TBM 92B TBM 92C TBM 93	Axle Clamp Tyre 8.25 x 20 Tube 8.25 x 20 Slotted Wheel Plain Wheel	1 2 2 1	
17 18 19	11173	Main Axle 2¼in Dia	1	
20 21 22 23 24 25 26		M16 x 25mm Hex Hd Bolt M16 x 30mm Hex Hd Bolt M16 x 90mm Hex Hd Bolt M16 Spring Washer M16 Nut	4 1 1	
27 28 29 30		M18 x 55mm Hex Hd Bolt M18 Spring Washer M18 Nut	4 4 4	
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Lifting Wheel Frame-Lifting Wheels-Skids



Item No	Part No.	Description	Qty per Assy	Remarks
1 2	BMZ 3 BMZ 5A	Lifting Wheel Mounting Lifting Wheel Mounting	3	
3 4	BMZ 99	Bracket Cap Lifting Wheel Hub	3 6	
5 6 7	GS 378	Split Pin	6	
8 9	H 74	Guide Skid Mounting Bracket Cap	6	·
10 11 12	RP 1B	Lifting Wheel	6	
13	RP3	Hub Cap	6	
14	RP4	Hub Bearing	12	
15	RP 5	Hub Oil Seal	6	İ
16	RP 6/1	Hub Nut	6	
17 18	RP 15	Hub Spacer	12	
19 20 21	SP236A	Lifting Wheel Mounting Bracket	3	
22 23 · 24	TBMW 270	Guide Skid Bracket	6	
25 26	11011	Lifting Wheel Frame	1	
27	11016	Guide Skid Support Bar	1 1	·
28	11022	Guide Skid Support Bar Clamp	3	
29	11022	Guide Skid Support Bar Clamp	3	
30	11076	Guide Skid RH	3	
31 32 33	,	M12 x 40mm Hex Hd Bolt	12	
34 35		M12 x 50mm Hex Hd Bolt M12 x 105mm Hex Hd Bolt	36 6	
36		M12 Spring Washer	54	
37		M12 Nut	54	
38		M12 Plain Washer	14	,
39 40	:	Witz Fluin Washer		
41 42		M16 x 30mm Hex Hd Bolt	15	
43		M16 x 60mm Sq Hd Bolt	12	
44		M16 x 60mm Hex Hd Bolt	6	
45	,	M16 Spring Washer	18	
46		M16 Nut	21	
47		M16 Plain Washer	12	·
48 49		1 5/16in Plain Washer - Thick	6	
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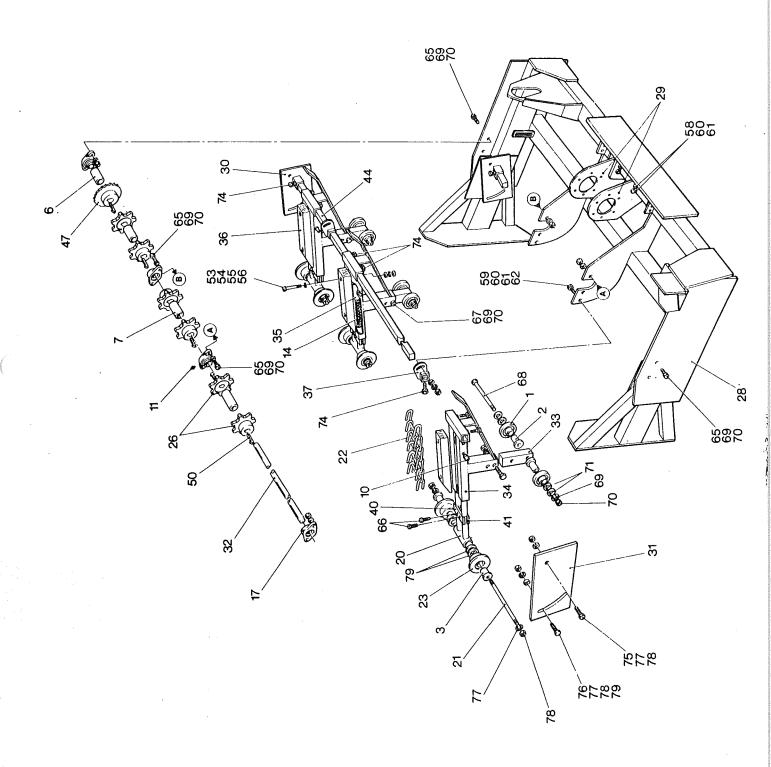
Lifting Wheels-Guide Skids From Serial No. W134



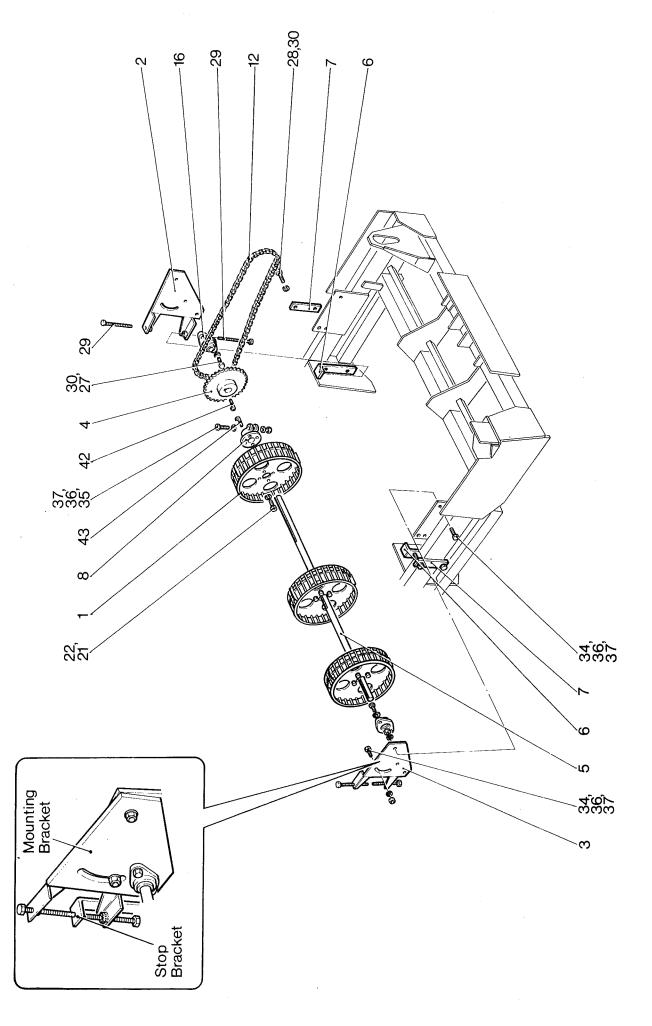
Lifting Wheels - Skids from Serial No. W134

em No	Part No.	Description	Qty per Assy	Remarks
1	BMZ 3/A	Lifting Wheel Mounting	3	
2 3	BMZ 5/A BMZ 99	Lifting Wheel Mounting Bracket Cap	3	
4	BIVIZ 99	Lifting Wheel Hub	6	
5				
3	00.070	a 11 Bi		
7	GS 378	Split Pin	6	
	H 74	Guide Skid Mounting Bracket Cap	6	
0		· ·		
1	RP 1B RP 3	Lifting Wheel Hub Cap	6	
3	RP 4	Hub Bearing	6 12	
· I	RP5	Hub Oil Seal	6	
	RP 6/I	Hub Nut	6	•
	RP 15 RP 3 NM	Hub Spacer HVB CAP NUT	12 36	
:	21	100001111111111111111111111111111111111	30	
)				
1	SP 236A	Lifting Wheel Mounting Bracket	3	
	į		ļ. 1	
		-		
	TBMW 270	Guide Skid Bracket	6	
	ĺ			
1		Guide Skid LH	3	
		Guide Skid RH	3	
1		1		
1				
		M12 x 50mm Hex Hd Bolt	36	
- 1		M12 x 105mm Hex Hd Bolt	6	
1		M12 Spring Washer M12 Plain Washer	426	
		M12 Nut	3 42 6	
-			l	
		M16 x 30mm Hex Hd Bolt	18	
		M16 x 60mm Sq Hd Bolt	12	
-	1	M16 x 60mm Hex Hd Bolt	6	v 1
	İ	M16 Spring Washer M16 Plain Washer	18 12	
	J	M16 Nut	24	
\cdot	ì	1 " Plain Washer — Thick	6	
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Lifting Wheel Frame-Top Track

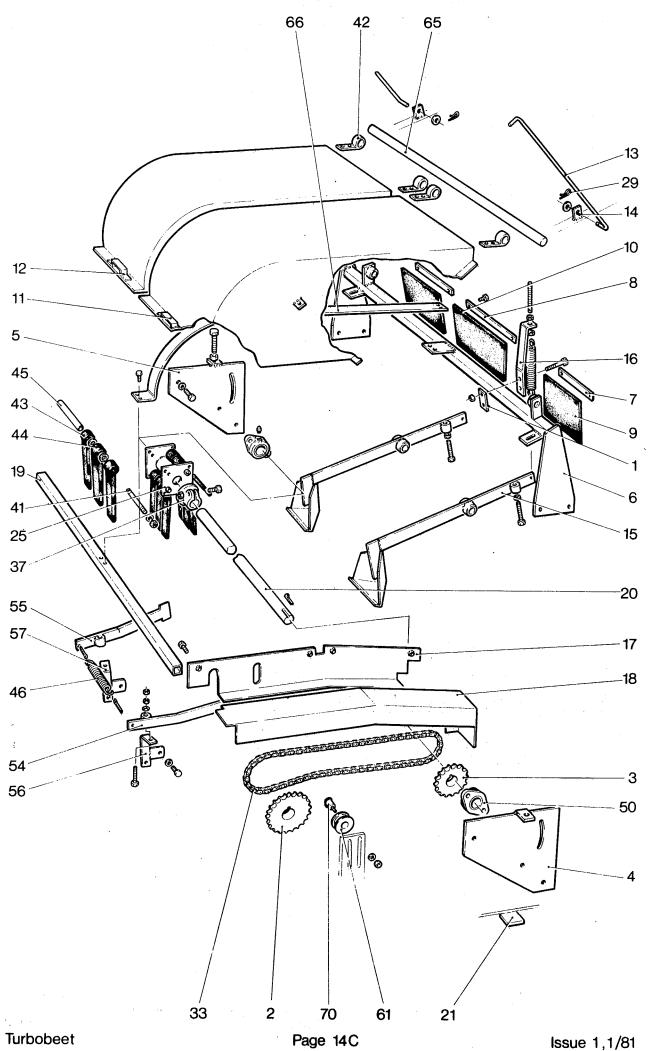


Item No	Part No.	Description	Qty per Assy	Remarks
1	BM 2	Roller	6	
2	BM 2A	Roller Bush	6	
3 4	BM 125/1	Bush	6	
5				
6	C 60	Spacer	1	
7	C 70	Spacer	3	
8 9				
10	GS 412	Grease Nipple	3	
11	GS 450	Grease Nipple	4	
12 13				
14	PS 165	Spring	6	
15				
16 17	SFT 30	Bearing	4	
18	0. 1 00	Doaring	l '	
19				
20 21	SPCL 21AM SPCL 23	Top Track Sliding Roller Mounting Top Track Sliding Roller Mounting	3	
۱ کا	01 UL 23	Tie Bar	3	
22	SPCL 55	Web Link	93	31 Links per Track
23	SPCL 274	Flanged Roller	6	
24 25				
26	TBMW 167	Split Sprocket	6	·
27	44044	A Control Addition of Processing		/P 19\
28 29	11011 11012 '	Lifting Wheel Frame Gearbox Mounting Plate	RF 2	(Page 12) REPLACED BY 11856 FROM SERAL NO TURBORET - TR ZEOA TRH MKZ - LL 1575A.
30	11025	Top Track Support Bar Bracket LH	1	No TURBOBET - TR LEGA
31	11026	Top Track Support Bar Bracket RH	1	184 WKS - TC 12124.
32 33	11044 11079	Top Track Drive Shaft Top Track Bottom Roller Bar	1 3	
34	11075	Top Track Body	3	
35	11081	Top Track Spring Spacer	6	
36 37	11082 11085	Top Track Wooden Runner Top Track Support Bar Clamp	3 2	
38	11065	Top Track Support Bar Clamp	-	
39			•	
40	11155	Top Track Clamp Block - Top Top Track Clamp Block - Bottom	3	
41 42	11156	TOP Track Clamp Block - Bottom	,	
43				
44	11254	Top Track Support Bar	1	
45 46				
47	17076	Sprocket 29T x 0.75 in.	RF	(Page 24)
48	,		1	
49 50		40mm Jib Head Key	7	
51		Tomin old Floud Roy	'	
52				
53 54		M8 x 50mm Hex Hd Bolt M8 Spring Washer	6	
5 4 55		M8 Nut	6	
56		M8 Plain Washer	12	
57 58		M10 x 30mm Hex Hd Bolt	6	
59		M10 x 40mm Hex Hd Bolt	2	
60		M10 Spring Washer	8	
61 62		M10 Nut M10 Plain Washer	8 2	
63		14110 1 10111 14031161		
64				
65 66		M12 x 40mm Hex Hd Bolt M12 x 50mm Hex Hd Bolt	8 6	
66 67		M12 x 50mm Hex Hd Bolt	3	
68		M12 x 160mm Hex Hd Bolt	3	
69 70		M12 Spring Washer	17	
70 71		M12 Nut M12 Plain Washer	17 12	
72			-	
73		A440 20 11 111-2	1.0	
74 75		M16 x 30mm Hex Hd Bolt M16 x 40mm Hex Hd Bolt	10 2	
76		M16 x 45mm Hex Hd Bolt	2	
	1	M16 Spring Washer	10	
77 78	. 1	M16 Nut	10	



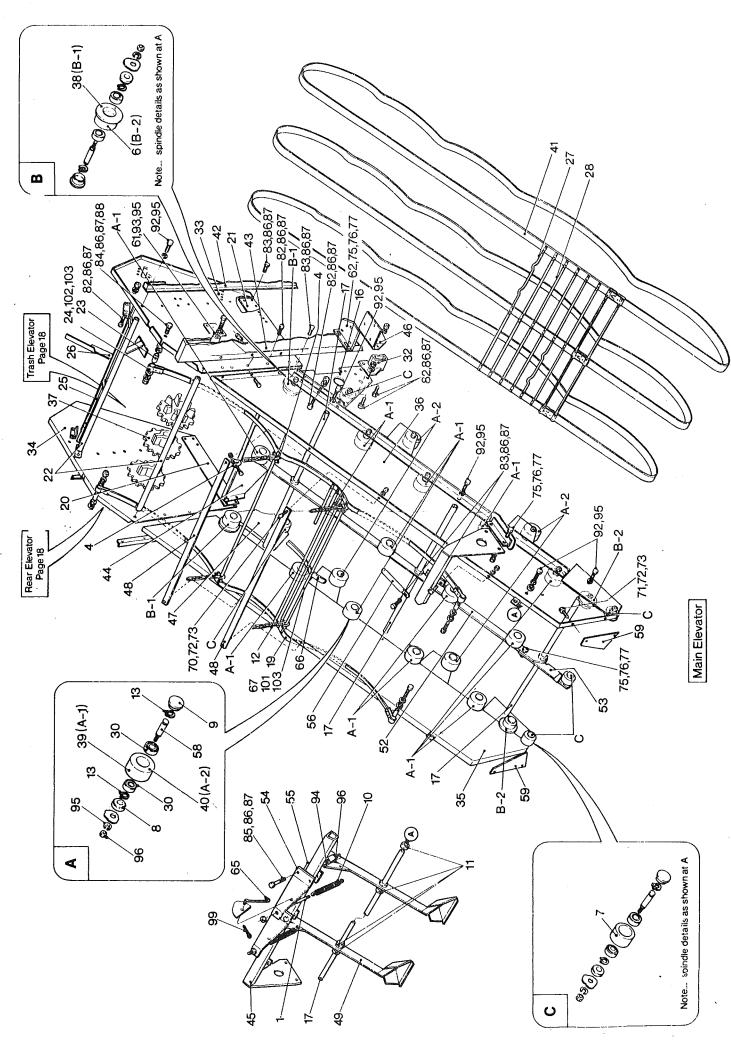
Item No	Part No.	Description	Qty per Assy	Remarks
1 2 3 4 5 6 7 8 9 0	11377 11378 11379 11380 11383 11384 11385 11389	Cage Wheel Now 11948 Mounting Bracket LH Mounting Bracket RH Sprocket 40T Drive Shaft Stop Bracket Stop Bracket Stop Bracket Clamp Cage Wheel Clamp Now 24249	3 1 1 1 1 2 2 3	PRIOR TO SERIAL Nº TB3 343C PART Nº NAS 11377 PRIOR TO SERIAL Nº TB3 343C PART Nº NAS 11389
10 11 12 13 14	PS 871/118	Chain	1	
15 16 17 18	SFT 40	Bearing	2	
19 20 21 22 23 24		M10 x 40mm Hex Hd Setscrew M10 Spring Washer	12 12	
25 26 27 28 29 30 31 32		M12 x 25mm Hex Hd Setscrew M12 x 80mm Hex Hd Bolt M12 x 150mm Hex Hd Setscrew M12 Spring Washer	4 4 4 8	
33 34 35 36 37 38 39		M16 x 30mm Hex Hd Setscrew M16 x 80mm Hex Hd Setscrew M16 Spring Washer M16 Nut	4 3	
40 41 42 43		Gib Head Key 8 x 7 x 45 Lg Gib Head Key 8 x 7 x 45 Lg	1 3	
		·		
		·		

Paddle Wheels From Serial No. W134



Item			Qty	B
No	Part No.	Description	per Assy	Remarks
1	11145	Clamp Plate	2	
2	11585	Sprocket 1" Pitch 24 Tooth	1	
3	11586	Sprocket 1" Pitch 12 Tooth	1	
4 5	11587 11588	Mounting Bracket LH Mounting Bracket RH	1、	
6	11589	Main Web Support Bar	1	
7	11590	Flap Clamp Strip	2	
8	11591	Flap Clamp Strip	1	
9	11592	Rubber Flap	2	
10	11593	Rubber Flap	1	
11	11594	Canopy LH	1	
12	11595 11596	Canopy RH Canopy Hook	1 2	·
13 14	11597	Hook Fixing Bracket	2	,
15	11598	Baffle Plate	2	
16	11599	Spring Support Bracket	2	,
17	11600	Guard Inner	1	,
18	11601	Guard Outer	1 1	
19 20	11604 11609	Canopy Support Paddle Shaft	1 1	
21	11610	Mounting Bracket Stop Plate	2	, i
22	11070	inounting gradies, broke inter-	_	
23				
24				
25 26	BMZ 100M	Flail Mounting	3	
26 27				
28	· ·		i	
29	H 105/A	'R' Clip	4	
30				
31				
32 33	PS 429/93	Chain	1	
34	F3 429/93	Chain	'	
35				
36			ŀ	* · · · · · · · · · · · · · · · · · · ·
37	RH 66M	Clamp	3	
38		•		
39 40				·
41	RP 24	Flail Tie	12	
42	RP 38	Hinge	4	
43	RP 42	Flail	24	·
44	RP 43	Flail	12	·
45	RP 68	Flail Tube	12	
46 47	RP 71	Spring	3	
48				
49	,			·
50	SFT 40A	Bearing	2	<u> </u>
51				i e
52 52				
53 54	SP 247LH	Scraper	3	
55	SP 247RH	Scraper	3	
56	SP 248LH	Scraper Support Bracket	3	
57	SP 248RH	Scraper Support Bracket	3	
58 59			1	
60			1	
61	PS 215	Jockey Roller	1	
62			1	
63			l	
64 65	TDU 450	Consent Himes Take	١.] .
65 66	TRH 152 TRH 185	Canopy Hinge Tube Canopy Centre Support	1	
67	100 100	г однору осня в вирроге	l · '	
68		· ·		
69			J	
70	PS 264M	Jockey Roller Shoulder Bolt	1	
71			l	
72 73			I	1
74			I	
75			1	
76				
77			I	
. 78			l	·
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Conveyors-Main Elevator-Continental Web



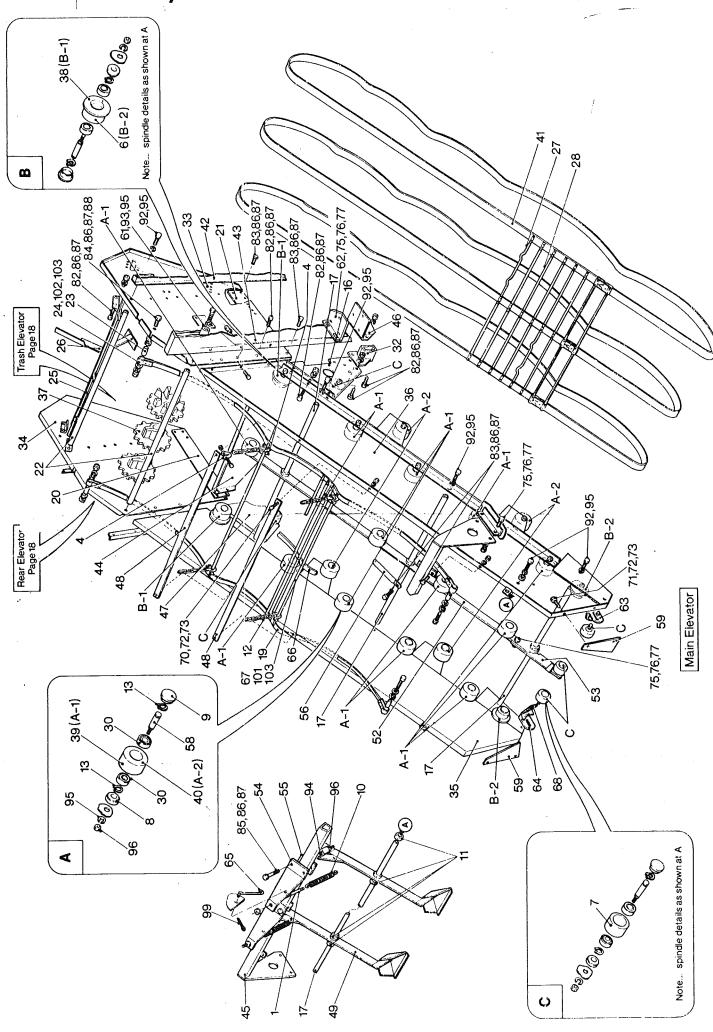
Turbobeet

Page 16

Issue 1, 2/80

Item No	Part No.	Description	Qty per Assy	Remarks
1	BM 82M	Spring Tensioner	2	
2				
3	11 474	Olar and Mark Community		
4	H 171	Cleaner Web Support Chain 'D' Shackles	8	
5		Chain D Shackles	ľ	
6	PH 51 A	Plain Roller	2	
7	PH 77AR	Plain rubbered Roller	5	
8	PH 407	Inner Plastic Seal	26	
9	PH 408 PS 194	Outer Plastic Seal Spring	26 2	
11	PS 326M	Collar Locking 30mm Dia	4	
12	PS 519/6	Chain	4	
13	PS 843	Circlip	52	
14 15				
16	TRH 29	Main Web Side Support Plate LH	1 1	
17	TRH 40	Main Web Tie Bar	4	
18				
19	TRH 102	Cleaner Web Belting	2	(1 pair)
20 21	TRH 108 TRH 109	Trash Extractor Roller Support RH	1	
22	TRH 117M	Trash Extractor Roller Support LH Main Web Top Tie Bar	1 2	
23	TRH 139M	Cleaner Web Pivot Shackle Spacer	4	
24	TRH 188	Cleaner Web Pivot Shackle	4	
25	TRH 201M	Trash Extractor Flap	1 1	(a)
26 27	TRH 202 TRH 248	Trash Extractor Roller Support	RF	(Page 20)
27 28	TRH 255	Continental Web Link (Hooped) Continental Web Link	26 132	
29	11111 200	CONTINUITED THIS	102	
30	6005 RS	Bearing	52	
31				
32 33	11010 11018	Mainframe	RF	(Page 8)
34	11019	Trash Extractor Side Plate LH Trash Extractor Side Plate RH	1 RF	(Page 20)
35	11020	Main Elevator Side Plate RH	1	(1 ugo 20)
36	11021	Main Elevator Side Plate LH	1	
37	11024	Main Elevator Web Sprocket	3	
38 39	11032 11033	Flanged Roller Plain Roller	2 13	
40	11033	Plain Rubber Roller	4	'
41	11036	Main Elevator Web	1	(Complete with items 27 and 28)
42	11039	Discharge Elevator Bottom		
42	11040	Frame - Rear	RF	(Page 22)
43	11040	Discharge Elevator Bottom Frame - Front	RF	(Page 22)
44	11042	Rear Elevator Support Panel	RF	(Page 20)
45	11048	Main Web Support Bar	1	
46	11049	Gearbox Support Bracket	1	(P 00)
47 48	11070 11077	Main Web Side Support Plate RH Cleaner Web Chain Support Angle	RF 2	(Page 20)
49	11097	Main Web Baffle Plate	2	·
50				·
51 52	11125	Main Wah Cantra Summent		
52 53	11135 11138	Main Web Centre Support Main Web Centre Support Extension	1	
54	11143	Baffle Plate Spring Support Plate	2	
55	11145	Baffle Plate Spring Support Plate		;
[11100	Clamp	2	(0
56 57	11166	Discharge Elevator Stay (Bottom)	RF	(Page 22)
58	11265	Roller Spindle	26	
59	11266	Beet Deflector	2	
60	14001			
61 62	11301 11302	Plastic Spacer Gearbox Support Brooket	1	
63	11302	Gearbox Support Bracket	1	
64				
65	11327	Hook (Canopy)	1	Not required after March 1981
66	11328	Centre Web Belting	1	
67 68	11329	Main Web Cleaner Rod	49	
69	ľ			
70		M8 x 30mm Hex Hd Bolt	4	
71	ļ	M8 x 40mm Hex Hd Bolt	4	
72 73		M8 Spring Washer M8 Nut	8 8	
74	Ī	MO MAL	°	
75		M10 x 30mm Hex Hd Bolt	7	

Conveyors-Main Elevator-Continental Web From serial No. W134



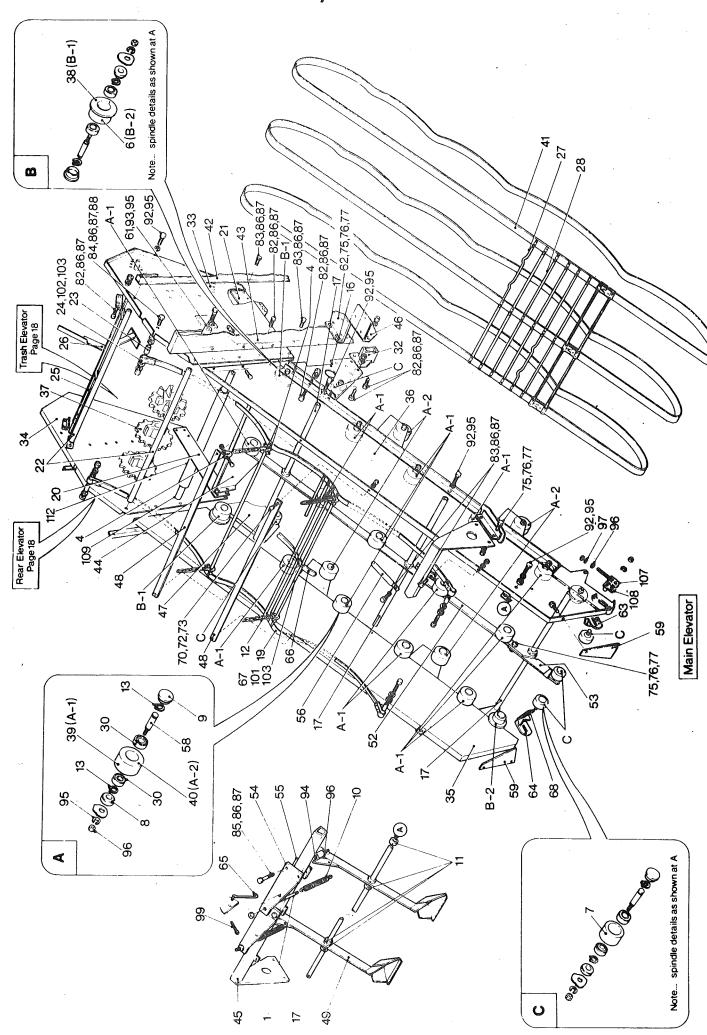
Item No	Part No.	Description	Qty per Assy	Remarks
1	BM 82M	Spring Tensioner	2	
2				
3 4	H 171	Cleaner Web Support	1 .	
•	1	Chain 'D' Shackles	8	
5				
6	PH 51 A	Plain Roller	2	
7 8	PH 77AR PH 407	Plain rubbered Roller Inner Plastic Seal	5	
9	PH 408	Outer Plastic Seal	26 26	
10	PS 194	Spring	2	
11	PS 326M	Collar Locking 30mm Dia	4	
12 13	PS 519/6 PS 843	Chain Circlip	52	
14	1,000	Circiip	32	
15			1	·
16	TRH 29	Main Web Side Support Plate LH	1	
17 18	TRH 40	Main Web Tie Bar	4	
19	TRH 102	Cleaner Web Belting	2	(1 pair)
20	TRH 108	Trash Extractor Roller Support RH	1	() Feet
21	TRH 109	Trash Extractor Roller Support LH	1	·
22 23	TRH 117M TRH 139M	Main Web Top Tie Bar Cleaner Web Pivot Shackle Spacer	2	
24	TRH 188	Cleaner Web Pivot Snackle Spacer Cleaner Web Pivot Shackle	4	
25	TRH 201M	Trash Extractor Flap	1	
26	TRH 202	Trash Extractor Roller Support	RF	(Page 20)
27 28	TRH 248 TRH 255	Continental Web Link (Hooped) Continental Web Link	26	
29	11111 200	Continental Web Link	132	
30	6005 RS	Bearing	52	
31			,	
32 33	11010 11018	Mainframe Trash Extractor Side Plate LH	RF	. (Page 8)
34	11019	Trash Extractor Side Plate EH	RF	(Page 20)
35	11020	Main Elevator Side Plate RH	1	(1 450 20)
36	11021	Main Elevator Side Plate LH	1	
37 38	11024 11032	Main Elevator Web Sprocket Flanged Roller	3 2	
39	11032	Plain Roller	13	
40	11034	Plain Rubber Roller	4	
41 42	11036	Main Elevator Web	1	(Complete with items 27 and 28)
42	11039	Discharge Elevator Bottom Frame - Rear	RF	(Page 22)
43	11040	Discharge Elevator Bottom] '''	11 ago 22)
		Frame - Front	RF	(Page 22)
44 45	11042 11048	Rear Elevator Support Panel Main Web Support Bar	RF	(Page 20)
46	11048	Gearbox Support Bracket	1	
47	11070	Main Web Side Support Plate RH	RF	(Page 20)
48	11077	Cleaner Web Chain Support Angle	2	
49 50	11097	Main Web Baffle Plate	2	
51				
52	11135	Main Web Centre Support	1	
53 54	11138 11143	Main Web Centre Support Extension Baffle Plate Spring Support Plate	1 2	
55	11145	Baffle Plate Spring Support Plate		
		Clamp	2	
56 57	11166	Discharge Elevator Stay (Bottom)	RF	(Page 22)
58	11265	Roller Spindle	26	
59	11266	Beet Deflector	2	
60	11201	Disastin On	[
61 62	11301 11302	Plastic Spacer Gearbox Support Bracket	1 1	ŀ
63	11432	Stone Deflector LH	1	Used on machines after March 1981
64	11433	Stone Deflector RH	1	Used on machines after March 1981
65 66	11327 11328	Hook (Canopy)	1	Not required after March 1981
67	11328	Centre Web Belting Main Web Cleaner Rod	1 49	
68	11434	Deflector Flap	2	Used on machines after March 1981
69	ļ		- 1	
70 71	1	M8 x 30mm Hex Hd Bolt M8 x 40mm Hex Hd Bolt	4	
		M8 Spring Washer	4 8	
72	1	MO Shillid Mastlet		
72 73		M8 Nut	8	
72				

Item No	Part No.	Description	Qty per Assy	Remarks
76 77 78 79 80		M10 Spring Washer M10 Nut M10 Plain Washer	7 7 1	
81 82 83 84 85 86 87 88 89		M12 x 30mm Hex Hd Bolt M12 x 40mm Hex Hd Bolt M12 x 90mm Hex Hd Bolt M12 x 100mm Hex Hd Bolt M12 Spring Washer M12 Nut M12 Plain Washer	17 6 4 4 31 31 12	
91 92 93 94 95 96 97		M16 x 30mm Hex Hd Bolt M16 x 75mm Hex Hd Bolt M16 x 110mm Hex Hd Bolt M16 Spring Washer M16 Nut	14 1 2 41 26	
98 99 100		Split Pin ¼in Dia x 1in	1	
101 102 103	2611-06-08 2611-06-10 2611-06-00	Fixing Pin Fixing Pin Fixing Collar	294 8 302	
				,
				.*
		• .		

item No	Part No.	Description	Qty per Assy	Remarks
76 77 78 79 80	·	M10 Spring Washer M10 Nut M10 Plain Washer	7 7 1	
81 82 83 84 85 86 87 88 89		M12 x 30mm Hex Hd Bolt M12 x 40mm Hex Hd Bolt M12 x 90mm Hex Hd Bolt M12 x 100mm Hex Hd Bolt M12 Spring Washer M12 Nut M12 Plain Washer	17 6 4 4 31 31 12	
91 92 93 94 95 96 97		M16 x 30mm Hex Hd Bolt M16 x 75mm Hex Hd Bolt M16 x 110mm Hex Hd Bolt M16 Spring Washer M16 Nut M16 Plain Washer	14 1 2 41 30 2	
99 100		Split Pin ¼in Dis x 1in	1	
101 102 103 104 105	2611-06-08 2611-06-10 2611-06-00	Fixing Pin Fixing Pin Fixing Collar	294 8 302	
106 107 108 109 110	11638 11640 11812	Main Web Adjuster Stone Deflector Stop Plate Tie Bar	. 2 2 1	
111 112	D 1340	Plastic Tube	1	
		•		

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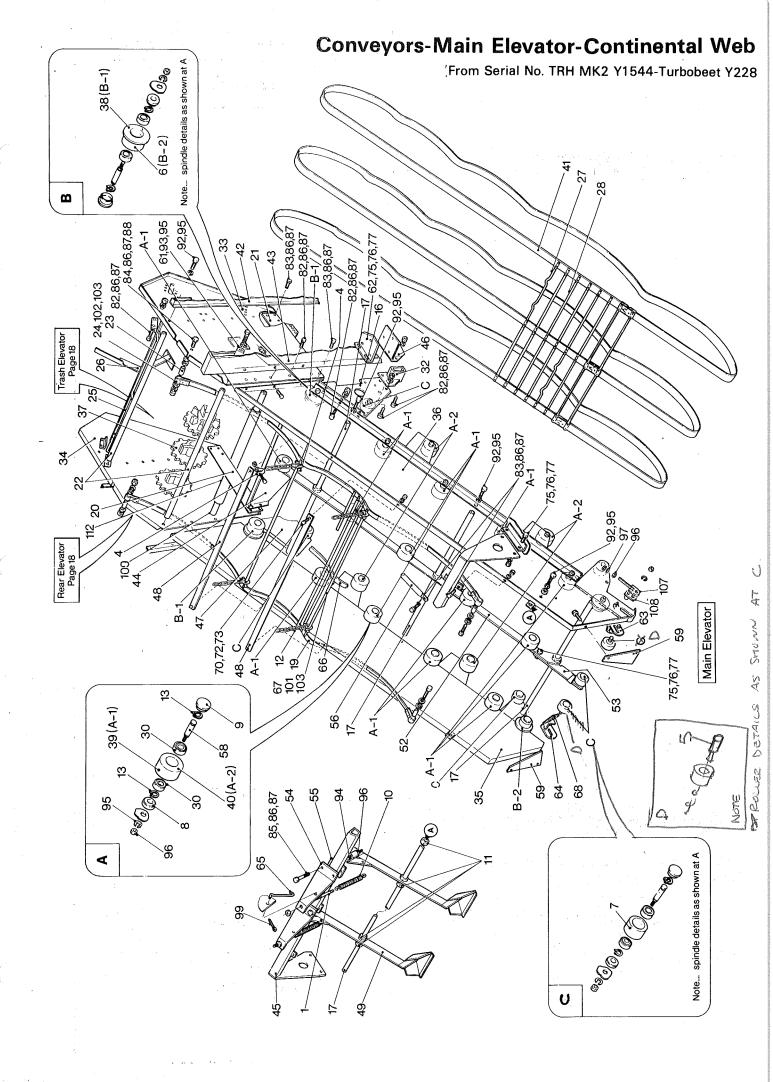
Conveyors-Main Elevator-Continental Web



Iten No	- 4 4 63	Description	Qty per Assy	Remarks
1	BM 82M	Spring Tensioner	2	
3				
4	H 171	Cleaner Web Support	1	
5		Chain 'D' Shackles	8	
6	PH 51 A	Plain Roller	2	
7	PH 77AR	Plain rubbered Roller	5	
8 9	PH 407 PH 408	Inner Plastic Seal Outer Plastic Seal	26 26	
10	PS 194	Spring	2	
11	PS 326M PS 519/6	Collar Locking 30mm Dia Chain	4	
13	PS 843	Circlip	52	
14 15				
16	TRH 29	Main Web Side Support Plate LH	1	
17	TRH 40	Main Web Tie Bar	4	
19	TRH 102	Cleaner Web Belting	2	(1 pair)
20	TRH 108	Trash Extractor Roller Support RH	1	, , , , , , , , , , , , , , , , , , ,
21 22	11811 TRH 117M	Trash Extractor Roller Support LH Main Web Top Tie Bar	1 2	
23	TRH 139M	Cleaner Web Pivot Shackle Spacer	4	
24 25	TRH 188 TRH 201M	Cleaner Web Pivot Shackle Trash Extractor Flap	1	
26	TRH 202	Trash Extractor Roller Support	RF	(Page 20)
27 28	TRH 248 TRH 255	Continental Web Link (Hooped) Continental Web Link	26	
29		CONTINUITE WED LINK	132	
30 31	6005 RS	Bearing	52	
32	.11010	Mainframe	RF	(Page 8)
33 34	11810 11019	Trash Extractor Side Plate LH	1	(2 - 22)
35	11019	Trash Extractor Side Plate RH Main Elevator Side Plate RH	RF 1	(Page 20)
36 37	11021	Main Elevator Side Plate LH	1	
38	11024 11032	Main Elevator Web Sprocket Flanged Roller	3 2	
39	11033	Plain Roller	13	
40 41	11034 11036	Plain Rubber Roller Main Elevator Web	1	(Complete with items 27 and 28)
42	11750	Discharge Elevator Bottom		
43	11751	Frame - Rear Discharge Elevator Bottom	RF	(Page 22)
		Frame - Front	RF	(Page 22)
44 45	11042 11048	Rear Elevator Support Panel Main Web Support Bar	RF 1	(Page 20)
46	11049	Gearbox Support Bracket	1	
47 48	11070 11077	Main Web Side Support Plate RH Cleaner Web Chain Support Angle	RF 2	(Page 20)
49	11097	Main Web Baffle Plate	2	
50 51				
52	11135	Main Web Centre Support	1	
53 54	11138 11143	Main Web Centre Support Extension Baffle Plate Spring Support Plate	1 2	
55	11145	Baffle Plate Spring Support Plate		
56	11166	Clamp Discharge Elevator Stay (Bottom)	2	/Dags 22)
57		Ciacharge Elevator Stay (Bottom)	RF	(Page 22)
58 59	11265 11266	Roller Spindle Beet Deflector	26	,
60		Peer Demector	2	
61 32	11301 11302	Plastic Spacer	1	
63	11642	Gearbox Support Bracket Stone Deflector LH	1	Used on machines after March 1981
64 65	11641 11327	Stone Deflector RH	1	Used on machines after March 1981
66	11327	Hook (Canopy) Centre Web Belting	1 1	Not required after March 1981
67 68	11329	Main Web Cleaner Rod	49	
69	11434	Deflector Flap	2	Used on machines after March 1981
70		M8 x 30mm Hex Hd Bolt	4	l
71 72		M8 x 40mm Hex Hd Bolt M8 Spring Washer	4 8	·
73		M8 Nut	8	4
74 75	·	M10 x 30mm Hex Hd Bolt	,	
		A COMMITTEE THE BOIL	7	

tem No	Part No.	Description	Qty per Assy	Remarks
76 77 78 79 80		M10 Spring Washer M10 Nut M10 Plain Washer	7 7 1	
80 81 82 83 84 85 86 87 88 90 91 92 93 94 95 96 97 98		M12 x 30mm Hex Hd Bolt M12 x 40mm Hex Hd Bolt M12 x 90mm Hex Hd Bolt M12 x 100mm Hex Hd Bolt M12 Spring Washer M12 Nut M12 Plain Washer	17 6 4 4 31 31 12	
		M16 x 30mm Hex Hd Bolt M16 x 75mm Hex Hd Bolt M16 x 110mm Hex Hd Bolt M16 Spring Washer M16 Nut M16 Plain Washer	14 1 2 41 30 2	
99 00 01 02 03 04 05	2611-06-08 2611-06-10 2611-06-00	Split Pin ¼in Dia x 1in Fixing Pin Fixing Pin Fixing Collar	1 294 8 302	
)6)7)8)9 0	11638 11640 11812	Main Web Adjuster Stone Deflector Stop Plate Tie Bar	. 2 2 1	
1 2	D 1340	Plastic Tube	1	

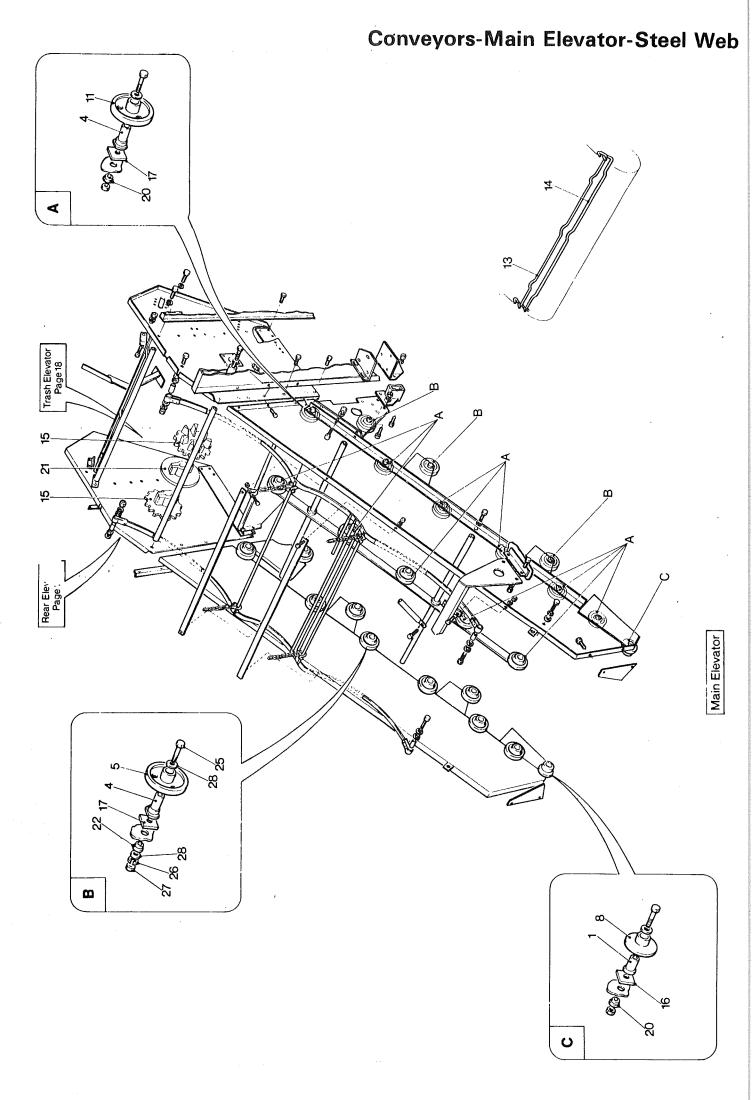
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Item No	Part No.	Description	Qty per Assy	Remarks
9	BM 82M	Spring Tensioner	2	
2			1	
3	1		1	
4	H 171	Cleaner Web Support		
5	PH 406 AP	Chain 'D' Shackles SPINOLE	8	
6	PH 51 A	Plain Roller	2	
7	PH 77AR	Plain rubbered Roller	7	
8	PH 407	Inner Plastic Seal	28	
9	PH 408	Outer Plastic Seal	28	
10	PS 194	Spring	2	
11	PS 326M	Collar Locking 30mm Dia	4	1
12 13	PS 519/6 PS 843	Chain Circlip	4 56	
14	13043	Circip	.00	
15	1			
16	TRH 29	Main Web Side Support Plate LH	1	
17	TRH 40	Main Web Tie Bar	4	
18				•
19	TRH 102	Cleaner Web Belting	2	(1 pair)
20	TRH 108	Trash Extractor Roller Support RH	1	
21 22	11811. TRH 117M	Trash Extractor Roller Support LH	1 1	
23	TRH 139M	Main Web Top Tie Bar Cleaner Web Pivot Shackle Spacer	2 4	
24	TRH 188	Cleaner Web Pivot Shackle	1 4	
25	TRH 201M	Trash Extractor Flap	l i	
26	TRH 202	Trash Extractor Roller Support	RF	(Page 20)
27	TRH 248	Continental Web Link (Hooped)	26	
28	TRH 255	Continental Web Link	132	
29		·		
30	6005 RS	Bearing	56	
31 32	11010	80-1-6	1	1 (p p)
33	11810	Mainframe Trash Extractor Side Plate LH	RF 1	(Page 8)
34	11019	Trash Extractor Side Plate RH	RF	(Page 20)
35	11020	Main Elevator Side Plate RH	i	((ago 20)
36	11021	Main Elevator Side Plate LH	1	
37	11024	Main Elevator Web Sprocket	3	
38	11032	Flanged Roller	2	
39	11033	Plain Roller	13	
40	11034	Plain Rubber Roller	4	4
41 42	11036	Main Elevator Web	1	(Complete with items 27 and 28)
72	11750	Discharge Elevator Bottom Frame - Rear	RF	(Page 22)
43	11751	Discharge Elevator Bottom	l nr	(rage 22)
	, , , ,	Frame - Front	RF	(Page 22)
44	11042	Rear Elevator Support Panel	RF	(Page 20)
45	11048	Main Web Support Bar	1	
46	11049	Gearbox Support Bracket	1	
47	11070	Main Web Side Support Plate RH	RF	(Page 20)
48 49	11077 11097	Cleaner Web Chain Support Angle	2	
50	11097	Main Web Baffle Plate	2	
51			1	
52	11135	Main Web Centre Support	1	
53	11835	Main Web Centre Support Extension		Part No. was 11138 Prior to Serial No.
54	11143	Baffle Plate Spring Support Plate	2	TRH MK2 Y1544 - Turbobeet Y228
55	11145	Baffle Plate Spring Support Plate	_	·
. I	11160	Clamp	2	/n
56 57	11166	Discharge Elevator Stay (Bottom)	RF	(Page 22)
	11265	Roller Spindle	20	24
59	11266	Beet Deflector	2 8₹ 2	26
50	-/			
31	11301	Plastic Spacer	1	
	11302	Gearbox Support Bracket	1	
	11642	Stone Deflector LH	1	Used on machines after March 1981
	11641	Stone Deflector RH	1	Used on machines after March 1981
	11327	Hook (Canopy)	1	Not required after March 1981
	11328	Centre Web Belting	1	
	11329	Main Web Cleaner Rod	49	
9	11434	Deflector Flap	2	Used on machines after March 1981
0		M8 x 30mm Hex Hd Bolt	4	
1		M8 x 40mm Hex Hd Bolt	4	
2	. 1	M8 Spring Washer	8	
3	·	M8 Nut	8	
4	·]		_	
5	Į	M10 x 30mm Hex Hd Bolt	7	·

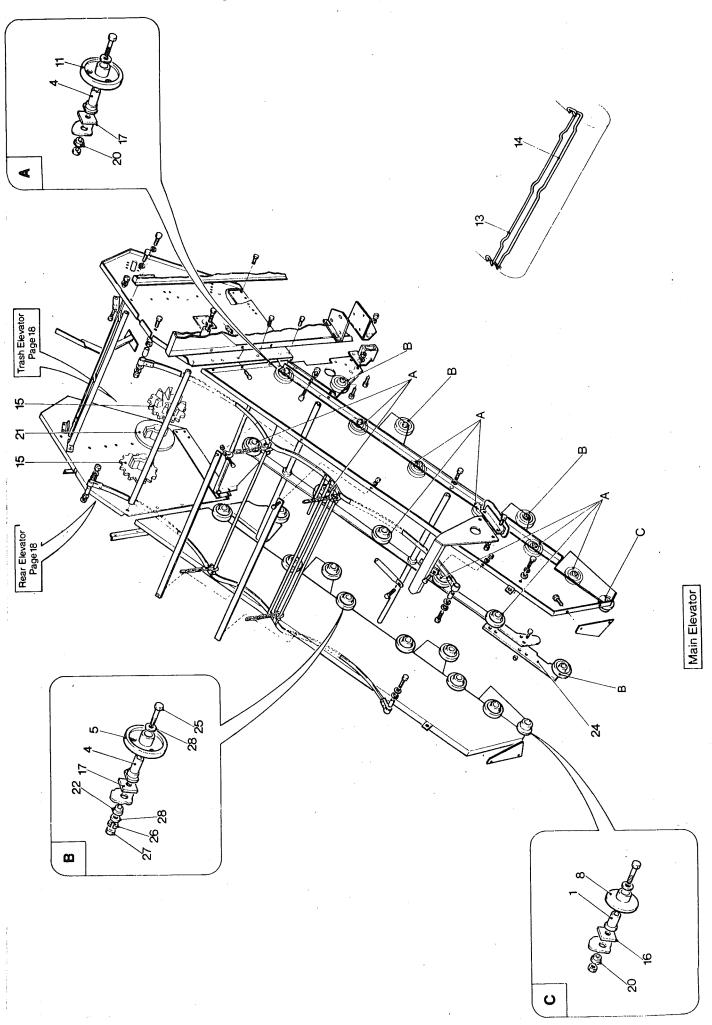
Item No	Part No.	Description	Qty per Assy	Remarks
76 77 78 79 80		M10 Spring Washer M10 Nut M10 Plain Washer	7 7 1	
81 82 83 84 85 86 87 88 89		M12 x 30mm Hex Hd Bolt M12 x 40mm Hex Hd Bolt M12 x 90mm Hex Hd Bolt M12 x 100mm Hex Hd Bolt M12 Spring Washer M12 Nut M12 Plain Washer	17 6 4 4 31 31 12	
91 92 93 94 95 96 97 98	. *	M16 x 30mm Hex Hd Bolt M16 x 75mm Hex Hd Bolt M16 x 110mm Hex Hd Bolt M16 Spring Washer M16 Nut M16 Plain Washer	14 1 2 43 32 2	
99 100 101 102 103 104 105	2611-06-08 2611-06-10 2611-06-00	Split Pin ¼in Dia x 1in Fixing Pin Fixing Pin Fixing Collar	294 8 302	
106 107 108 109 110	11638 11640 11812	Main Web Adjuster Stone Deflector Stop Plate Tie Bar	2 2 1	
112	D 1340	Plastic Tube	ì	·
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Item No	Part No.	n Elevator — Steel Web from Description	Qty per Assy	Remarks
1 2	BM 125/1	Roller Bush	2	
3 4 5 6	PS 212B PS 213 B	Roller Bush Roller	23 6	· ·
7 8 9	SPCL 274	Bottom Roller	2	
10 11 12	TBM 133	Roller	17	
13 14 15 16 17	TRH 43 TRH 44 TRH 53M TRH 132 TRH 133	Web Links (Up) Web Links (Down) Sprocket Packing Piece Packing Piece	27 79 2 2 2	
18 19 20 21 22 23	11309 11313 11315 11317	Collar Roller Collar Steel Web Conversion Kit Complete	17 1 4 1	
24 25 26 27 28		M16 x 100mm Hex Hd Bolt M16 Spring Washer M16 Nut M16 Plain Washer	25 25 25 25 50	
				NOTE: For general assembly items and attaching parts refer to Page 16.
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Conveyors-Main Elevator-Steel Web From serial No. W134

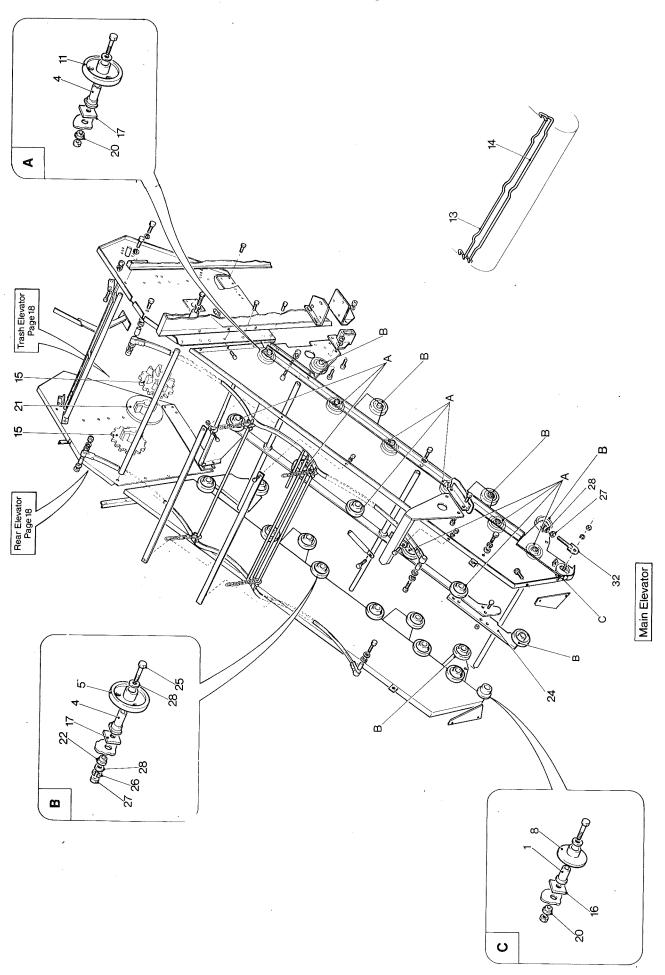


sy, is 24 when centre extension is fitted sy, is 7 when centre extension is fitted H 437 from March 1981
sy, is 7 when centre extension is fitted
H 437 from March 1981
es from Marsh 1981
neral assembly items and ng parts refer to Page 16.

Conveyors-Main Elevator-Steel Web Rear Elevator Page 18 Main Elevator

Item No	Part No.	Description	Qty per Assy	Remarks
1 2	BM 125/1	Roller Bush	2	
3 4 5 6	PS 212B PS 213 B	Roller Bush Roller	23 6	Quantity per Assy, is 24 when centre extension is fitted Quantity per Assy, is 7 when centre extension is fitted
7 8 9	SPCL 274	Bottom Roller	2	Replaced by TRH 437 from March 1981
10 11	твм 133	Roller	17	
12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	TRH 43 TRH 44 TRH 53M TRH 132 TRH 133	Web Links (Up) Web Links (Down) Sprocket Packing Piece Packing Piece	27 79 2 2 12	·
	11309 11313 11315 11317 11516	Collar Roller Collar Steel Web Conversion Kit Complete Main Web Centre M16 x 100mm Hex Hd Bolt M16 Spring Washer M16 Nut M16 Plain Washer	17 1 4 1 1 25 25 27 52	Used on Machines from March 1981
28 29 30 31 32	11638	Bottom Roller Adjuster	2	
				NOTE: For general assembly items and attaching parts refer to Page 16.
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Conveyors-Main Elevator-Steel Web



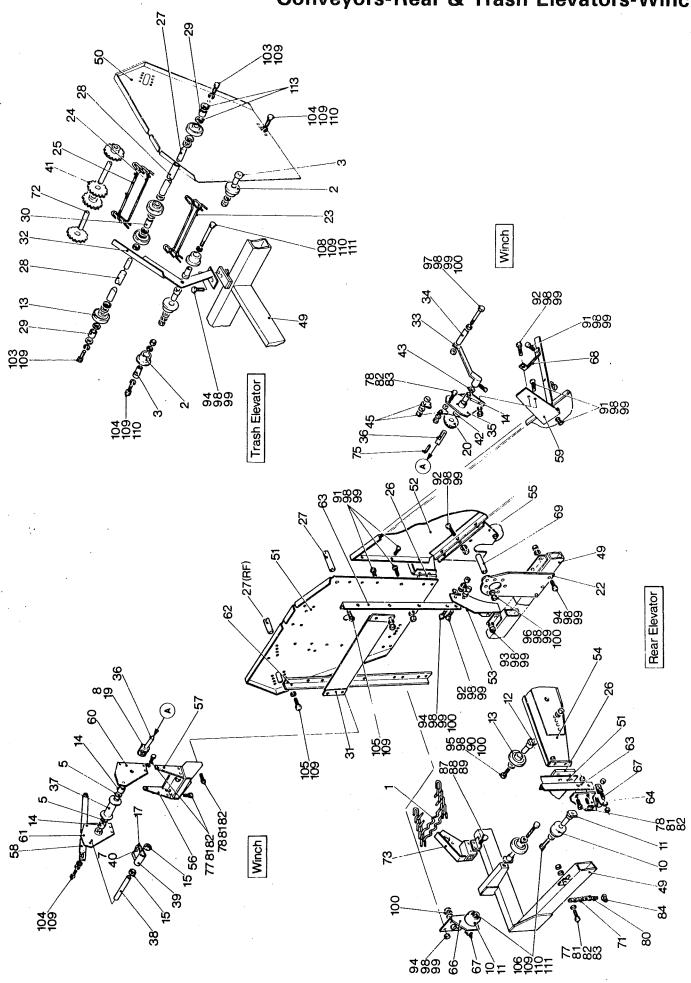
Turbobeet

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COH	Conveyors — Main Elevator — Steel Web					
Item No	Part No.	Description	Qty per Assy	Remarks		
1 2 3	BM 125/1	Roller Bush	2			
4 5 6	PS 212B PS 213 B	Roller Bush Roller	26 9	Quantity per Assy, is 24 when centre extension is fitted Quantity per Assy, is 7 when centre extension is fitted		
7 8 9	SPCL 274	Bottom Roller	2	Replaced by TRH 437 from March 1981		
10 11 12	TBM 133	Roller	17			
13 14 15 16	TRH 43 TRH 44 TRH 53M TRH 132	Web Links (Up) Web Links (Down) Sprocket Packing Piece	27 79 2 2	·		
17 18 19	TRH 133	Packing Piece	14			
20 21 22 23 24 25 26 27 28	11309 11313 11315 11317 11516	Collar Roller Collar Steel Web Conversion Kit Complete Main Web Centre M12 x 100mm Hex Hd Bolt M12 Spring Washer M12 Nut M12 Plain Washer	17 1 4 1 1 28 28 30 58	Used on Machines from Marsh 1981		
29 30 31 32	11638	Bottom Roller Adjuster	2			
				NOTE: For general assembly items and attaching parts refer to Page 16.		
			Chicago Carlos es es es es estador de carlos de carlos de carlos de carlos de carlos de carlos de carlos de ca			
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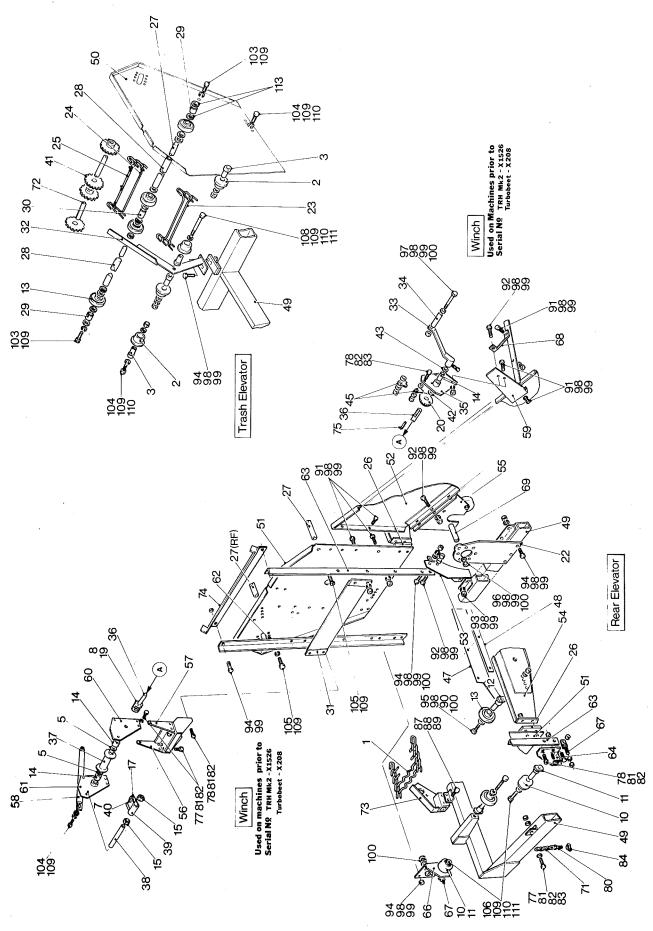
Conveyors-Rear & Trash Elevators-Winch



Item No	Part No.	Description	Qty per Assy	Remarks
1	BM 44/A	Web Link Down	29	
2	BM 125	Roller	4	
3	BM 125/1	Bush	4	,
4 5	C 10	Spacer	2	
6	0.0	Space		
7	GS 378	Split Pin	1	
8 9	GS 409	Grease Nipple (Angled)	1	
10	PH 673	Bottom Cone Roller	2	
11	PH 674	Bottom Cone Roller Bush	2	
12 13	PS 212B PS 213B	Bush Roller	2	
14	PS 386M	Nylon Bush	6 3	
15	PS 488M	Stop Collar	2	
16	CD 400	DL. C. Duller		•
17 18	SP 426	Plastic Pulley	1	
19	TBMT 38M	Hardy Spicer Coupling	1	,
20	TBMW 505	Sprocket 17T x 0.75in	1	
21 22	TRH 23	Gearbox Mounting Plate	1	
23	TRH 100	Trash Extractor Link-Up	8	•
24	TRH 100/1	Trash Extractor Link-Down	100	
25 26	TRH 101 TRH 108	Trash Extractor Link-Splked Trash Extractor Roller Support RH	RF	(Page 16)
27	TRH 117M	Main Web Top Tie Bar	3	2-RF (Page 16)
28	TRH 140	Trash Extractor Tie Bar Spacer,		
29	TRH 141	500mm Trash Extractor Tie Bar Spacer,	2	
20	11111141	30mm	2	
30	TRH 142	Trash Extractor Tie Bar Spacer,		
31	TRH 191M	35mm Trash Extractor Side Plate RH	1	
31	I IAH 191W	Strengthening Plate	1	
32	TRH 202	Trash Extractor Roller Support	1	
33	TRH 400	Handle	1	·
34 35	TRH 401 TRH 402	Handle Grip Handle Support Plate	1 1	
36	TRH 403	Drive Shaft	1	
37	TRH 404	Barrel	1	
38 39	TRH 406 TRH 409	Tie Bar (Winch) Wire Rope Pivot Plate	1	
40	TRH 410	Pivot Plate Roller Spindle	1	
41	, TRH 422	Drive Sprocket	RF	(Page 24)
42 43	TRH 436 TRH 442	Washer Spacer	1	
43	1111 442	Spacei	'	
45.	TRT 408	Winch Ratchet Pawl	2	
46	,			
47 48				
49	11010	Mainframe	RF	(Page 8)
50	11018	Trash Extractor Side Plate LH	RF	(Page 16)
51 52	11019 11020	Trash Extractor Side Plate RH Main Elevator Side Plate RH	1 RF	(Page 16)
53	11020	Trash Extractor Front Support	1	trage 107
54	11042	Rear Elevator Support Panel	1	
55 56	11070 11071	Main Web Side Support Plate RH Barrel Mounting Bracket (Winch)	1	
57	11071	Mounting Bracket (Winch)	1	
58	11073	Barrel Stay	RF	(Page 22)
59	11074	Handle Support Plate Bracket Barrel Support Plate - Front	1	
60 61	11083 11084	Barrel Support Plate - Front Barrel Support Plate - Rear	1	
62	11095	Trash Extractor Web Side		
_	44000	Support - Rear	1	
63	11096	Trash Extractor Web Side Support - Front	1	
64	11098	Rear Elevator Roller Support	'	
1		Plate - Front	1	
65	11100	Dan Flances Dalla C		
66	11136	Rear Elevator Roller Support Plate - Rear	1	
67	11137	Rear Elevator Roller Adjuster	2	
68	11148	Winch Handle Stay	1	
69	11174	Gearbox Spacer	1	
70 71	11256	Retaining Chain	1	
<u>'' </u>	11230	rivianing onani	1	

Item No	Part No.	Description	Qty per Assy	Remarks
72 73 74	11267 11297	Trash Extractor Web Shaft Drive Plate	RF 1	(Page 24)
75		Jib Head Key	1	
76 77 78 79 80 81 82 83 84		M8 x 25mm Hex Hd Bolt M8 x 30mm Hex Hd Bolt M8 x 40mm Hex Hd Bolt M8 x 50mm Hex Hd Bolt M8 Spring Washer M8 Nut M8 Plain Washer M8 Wing Nut	15 5 1 1 20 21 5	
86 87 88 89		M10 x 80mm Hex Hd Bolt M10 Spring Washer M10 Nut	2 2 2	
90 91 92 93 94 95 96 97 98 99 100		M12 x 25mm Hex Hd Bolt M12 x 30mm Hex Hd Bolt M12 x 35mm Hex Hd Bolt M12 x 40mm Hex Hd Bolt M12 x 100mm Hex Hd Bolt M12 x 165mm Hex Hd Bolt M12 x 190mm Hex Hd Bolt M12 x 190mm Hex Hd Bolt M12 X 190mm Hex Hd Bolt M12 Spring Washer M12 Nut M12 Plain Washer	7 5 2 9 2 1 1 26 26	
102 103 104 105 106 107 108 109 110 111		M16 x 30mm Hex Hd Bolt M16 x 35mm Hex Hd Bolt M16 x 45mm Hex Hd Bolt M16 x 80mm Hex Hd Bolt M16 x 85mm Hex Hd Bolt M16 x 130mm Hex Hd Bolt M16 Spring Washer M16 Nut M16 Plain Washer	2 2 2 2 2 1 11 5	
113		Plain Washer 55m Dia, 30mm Bore	12	
,				·

Conveyors-Rear & Trash Elevators-Winch



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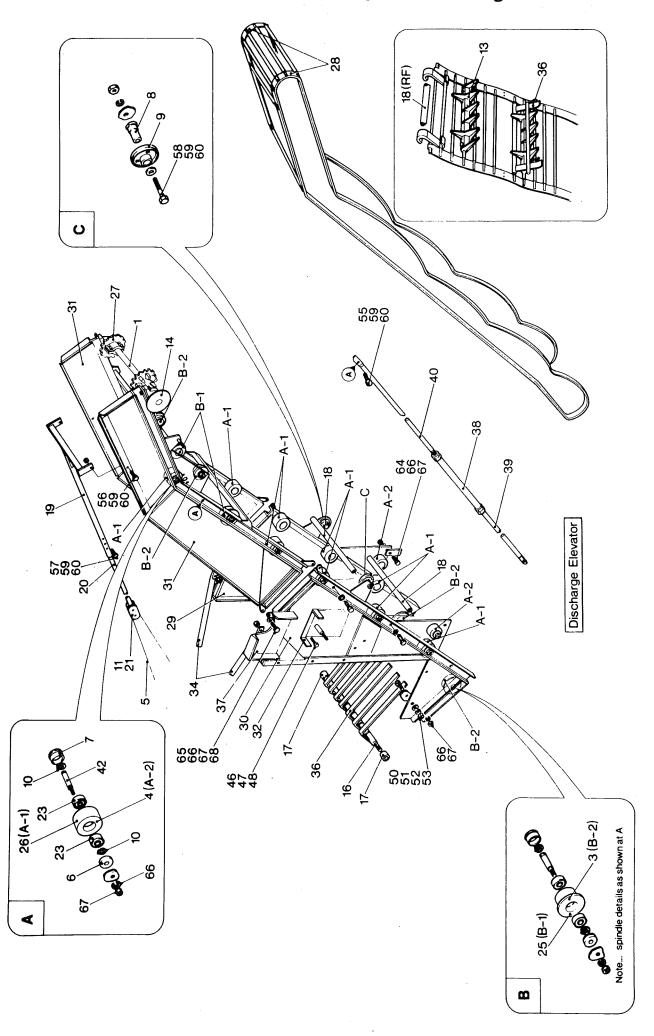
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Item No	Part No.	Description	Qty per Assy	Remarks
4	BM 44/A	Web Link Down	29	
1 2	BM 125	Roller	4	
3	BM 125/1	Bush	4	
4	0.10	Specie	2	
5 6	C 10	Spacer		
7	GS 378	Split Pin	1	
8	GS 409	Grease Nipple (Angled)	1	·
9 10	PH 673	Bottom Cone Roller	2	,
11	PH 674	Bottom Cone Roller Bush	2	·
12	PS 212B	Bush	2	
13	PS 213B	Roller	6 3	
14 15	PS 386M PS 488M	Nylon Bush Stop Collar	2	
16	, , , , , , , , , , , , , , , ,	Stop Some.	_	
17	SP 426	Plastic Pulley	1	
18 19	твмт звм	Hardy Spicer Coupling	1	
20	TBMW 505	Sprocket 17T x 0.75in		
21				
22	TRH 23	Gearbox Mounting Plate	1 0	
23 24	TRH 100 TRH 100/1	Trash Extractor Link-Up Trash Extractor Link-Down	100	
25	TRH 101	Trash Extractor Link-Spiked	8	
26	TRH 108	Trash Extractor Roller Support RH	RF	(Page 16)
27 28	TRH 117M	Main Web Top Tie Bar	3	2-RF (Page 16)
20	TRH 140	Trash Extractor Tie Bar Spacer, 500mm	2	·
29	TRH 141	Trash Extractor Tie Bar Spacer,	-	
30	TRH 142	30mm Trash Extractor Tie Bar Spacer,	2	
31	TRH 191M	35mm Trash Extractor Side Plate RH	1	·
32	TRH 202	Strengthening Plate Trash Extractor Roller Support	1 1	1
33	TRH 400	Handle	1	
34	TRH 401	Handle Grip	1	
35	TRH 402	Handle Support Plate	1 1	
36 37	TRH 403 TRH 404	Drive Shaft Barrel	li	·
38	TRH 406	Tie Bar (Winch)	1	
39	TRH 409	Wire Rope Pivot Plate	1 !	
40 41	TRH 410 TRH 422	Pivot Plate Roller Spindle Drive Sprocket	RF	(Page 24)
42	TRH 436	Washer	"i	(1 ago 24)
43	TRH 442	Spacer	1	
44 45 46	TRT 408	Winch Ratchet Pawl	2	·
47	11442	Deflector Plate	1	
48	11443	Clamp Strip	1	
49	11010	Mainframe	RF RF	(Page 8) (Page 16)
50 51	11018 11019	Trash Extractor Side Plate LH Trash Extractor Side Plate RH	1	tiago to;
52	11020	Main Elevator Side Plate RH	RF	(Page 16)
53	11029	Trash Extractor Front Support	1 1	
54 55	11042 11070	Rear Elevator Support Panel Main Web Side Support Plate RH	1 1	
56	11070	Barrel Mounting Bracket (Winch)	1 1	
57	11072	Mounting Bracket	1	
58	11073	Barrel Stay	RF	(Page 22)
59 60	11074 11083	Handle Support Plate Bracket Barrel Support Plate - Front	1 1	
61	11083	Barrel Support Plate - Pront	1 1	· ·
62	11777	Trash Extractor Web Side	1	
63	11778	Support - Rear Angle Trash Extractor Web Side	1	
64	11098	Support - Front Angle Rear Elevator Roller Support	1	
65 66	11136	Plate - Front Rear Elevator Roller Support	1	
30	11130	Plate - Rear	1	
67	11137	Rear Elevator Roller Adjuster	2	
68	11148	Winch Handle Stay	1	
69 70	11174	Gearbox Spacer	1	
71	11256	Retaining Chain	1 1	

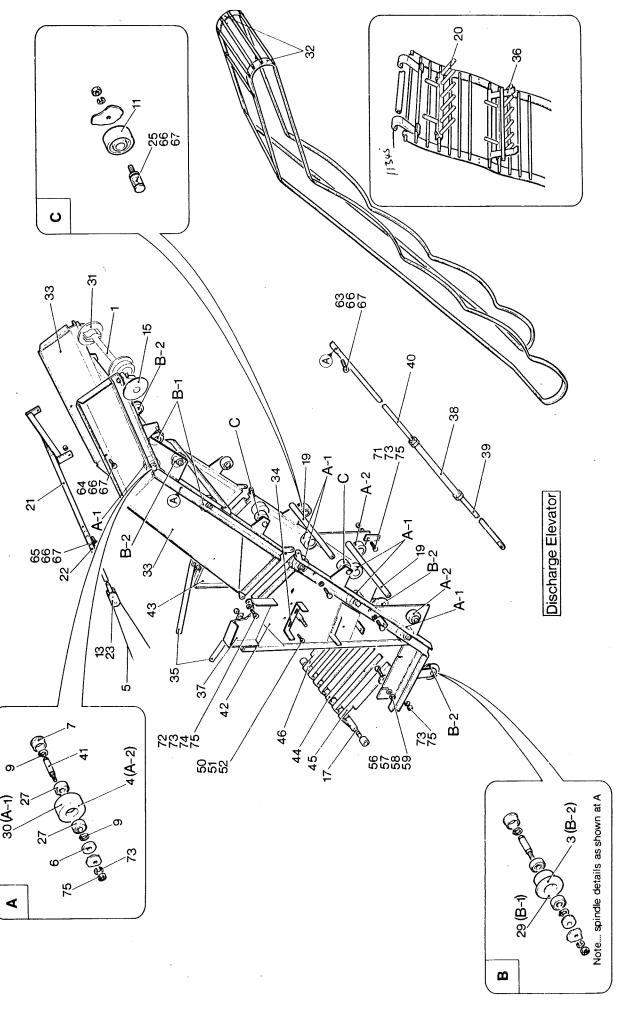
ltem No	Part No.	Description	Oty per Assy	Remarks
72 73 74 75 76 77 78 81 82 83 84 86 88 99 91 99 99 99 99 99 99 99 99 99 99 99	11267 11297 11779	Trash Extractor Web Shaft Drive Plate Jib Head Key M8 x 25mm Hex Hd Bolt M8 x 30mm Hex Hd Bolt M8 x 40mm Hex Hd Bolt M8 x 50mm Hex Hd Bolt M8 Spring Washer M8 Nut M8 Plain Washer M8 Wing Nut M10 x 80mm Hex Hd Bolt M10 Spring Washer M10 Nut M12 x 25mm Hex Hd Bolt M12 x 30mm Hex Hd Bolt M12 x 35mm Hex Hd Bolt M12 x 100mm Hex Hd Bolt M12 x 100mm Hex Hd Bolt M12 x 100mm Hex Hd Bolt M12 x 190mm Hex Hd Bolt M12 plain Washer M16 x 30mm Hex Hd Bolt M16 x 35mm Hex Hd Bolt M16 x 35mm Hex Hd Bolt M16 x 85mm Hex Hd Bolt M16 x 85mm Hex Hd Bolt M16 x 85mm Hex Hd Bolt M16 x 130mm Hex Hd Bolt	RF 1 1 15 5 1 1 2 2 2 7 5 2 11 2 1 1 6 2 8 8 2 2 2 2 2 1 11 5 2 12	(Page 24)

Conveyors-Discharge Elevator



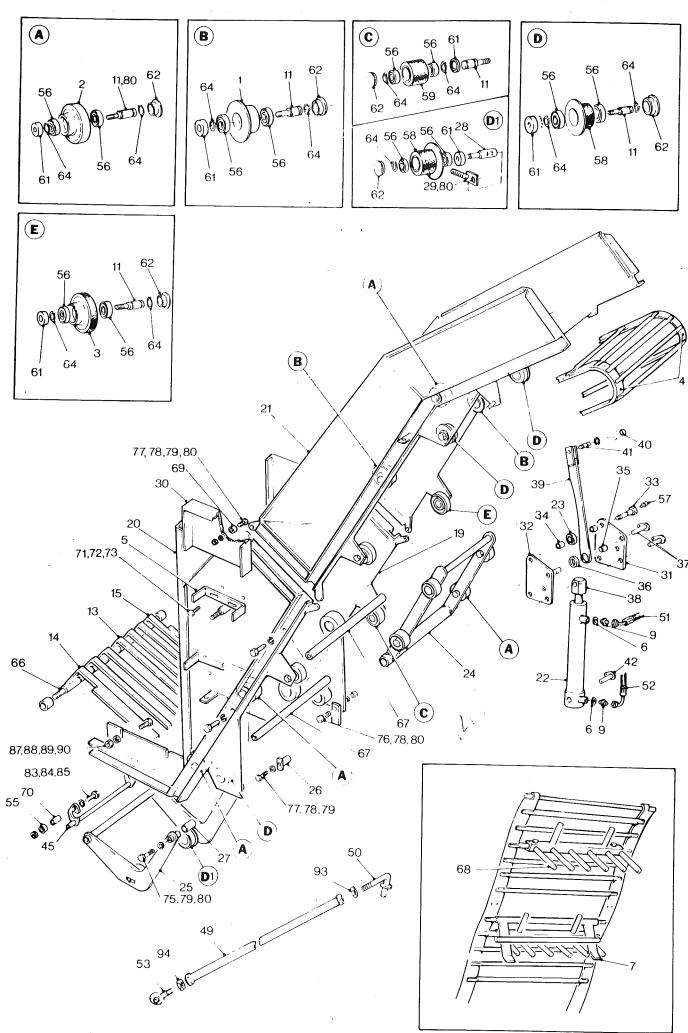
Item No	Part No.	Description	Qty per Assy	Remarks
1 2	BMZ 64M	Discharge Elevator Top Shaft	RF	(Page 24)
3 4 5	PH 51AR PH 77AR PH 101/	Rubbered Roller Plain Rubbered Roller	4 2	
6	40 ft PH 407	Wire Rope Inner Plastic Seal	1 18	
7 8	PH 408 PS 212B	Outer Plastic Seal Bush	18 2	
9 10	PS 213B PS 843	Roller Circlip	2 36	
11 12	SP 426	Plastic Pulley	4	
13 14 15	TBM 14 TBMW 206	Discharge Elevator Lat Sprocket 26T x 0.75 in	29 RF	(Page 24)
16 17	TRH 158AM TRH 160A	Tip Grill Tie Bar Tip Grill Spacer	1 2	
18 19	TRH 162M TRH 411	Discharge Elevator Tie Bar Tension Tube	2	
20	TRH 412B	Tension Tube Inner	1	
21 22	TRH 413	Inner Tube Roller Plate	4	
23 24	6005RS	Bearing	36	
25 26	11032 11033	Flanged Roller Plain Roller	2 10	
27 28	11035 11037	Discharge Elevator Web Sprocket Discharge Elevator Web	RF 1	(Page 24)
29	11039	Discharge Elevator Bottom Frame - Rear	1	
30	11040	Discharge Elevator Bottom Frame - Front	1	
31 32 33	11041 11043	Discharge Elevator Top Frame Discharge Elevator Belt Guide	1 1	
34 35	11073 11146	Barrel Stay Tip Grill Fingers	2 7	
36	11154	Discharge Elevator Drop-away Link	3	
37	11161	Discharge Elevator Drive 'V' Belt Back Plate	1	
38 39	11165 11166	Discharge Elevator Stay-Middle Discharge Elevator Stay- Bottom	1	
40 41	11167	Discharge Elevatora Stay-Top	1	
42 43	11265	Roller Spindle	18	
44 45				
46 47		M8 x 25mm Hex Hd Bolt M8 Spring Washer	2 2	
48 49		M8 Nut	2	
50		M10 x 25mm Hex Hd Bolt	1	
51 52		M10 Spring Washer M10 Nut	1 9	
53 54		M10 Plain Washer	1	
55 56		M12 x 40mm Hex Hd Bolt M12 x 50mm Hex Hd Bolt	1 2	
57 58	•	M12 x 65mm Hex Hd Bolt M12 x 100mm Hex Hd Bolt	1 2	
59		M12 Spring Washer	6	
60 61		M12 Nut M12 Plain Washer	6	
62 63		M16 x 30mm Hex Hd Bolt	4	
64 65		M16 x 35mm Hex Hd Bolt M16 x 50mm Hex Hd Bolt	2 4	
66 67		M16 Spring Washer M16 Nut	22 20	
68		M16 Plain Washer	4	
				,
			I	

Conveyors-Discharge Elevator From Serial No. W134



Item No	Part No.	Description	Qty per Assy	Remarks
1	BMZ 64M	Discharge Elevator Top Shaft	Ref	Page 24
2 3 4 5 6 7	PH 51AR PH 77AR PH 101/40ft. PH 407 PH 408	Rubbered Roller Plain Rubbered Roller Wire Rope Inner Plastic Seal Outer Plastic Seal	4 2 1 16 16	
8 9 10	PS 843	Circlip	34	
10 11 12	RH 76N	Nylon Roller	4	·
13 14	SP 426	Plastic Pulley	4	
15 16	TBMW 206	Sprocket 26T x 0.75 in.	Ref	Page 24
17 18	TRH 158AM	Tip Grill Tie Bar	1	
19 20 21 22 23 24 25 26 27 28 29 30	TRH 162M TRH 361 TRH 411 TRH 412B TRH 413 FPS 118 6005 RS	Discharge Elevator Tie Bar Elevator Lats Tension Tube Tension Tube Inner Inner Tube Roller Plate Bearing Bearing Flanged Roller Plain Roller	2 29 1 1 4 4 34 2 8	
31 32 33 34 35 36 37	11035 11037 11041 11043 11073 11154 11161	Discharge Elevator Web Sprocket Discharge Elevator Web Discharge Elevator Top Frame Discharge Elevator Belt Guide Barrel Stay Discharge Elevator Drop Away Link Discharge Elevator Drive 'V' Belt Back Plate	Ref 1 1 1 2 3	Page 24
38 39 40 41 42 43 44 45 46 47 48 49	11165 11166 11167 11265 11485 11486 11487 11488 11489	Discharge Elevator Stay-Middle Discharge Elevator Stay-Bottom Discharge Elevator Stay-Top Roller Spindle Discharge Elevator Bottom Front Discharge Elevator Bottom Rear Top Grill Fingers Tip Grill Finger Front Tip Grill Finger Rear	1 1 18 1 1 5 1	
50 51 52 53 54 55	,	M8 x 25mm Hex Hd Bolt M8 Spring Washer M8 Nut	2 2 2	·
56 57 58 59 60 61		M10 x 25mm Hex Hd Bolt M10 Spring Washer M10 Plain Washer M10 Nut	1 1 1 9	·
62 63 64 65 65 67 68 69 70		M12 x 40mm Hex Hd Bolt M12 x 50mm Hex Hd Bolt M12 x 65mm Hex Hd Bolt M12 Spring Washer M12	1 2 1 6	
71 72 73 74 75 76 77 78		M16 x 35mm Hex Hd Bolt M16 x 50mm Hex Hd Bolt M16 Spring Washer M16 Plain Washer M16 Nut	2 4 22 4 20	

Discharge Elevator



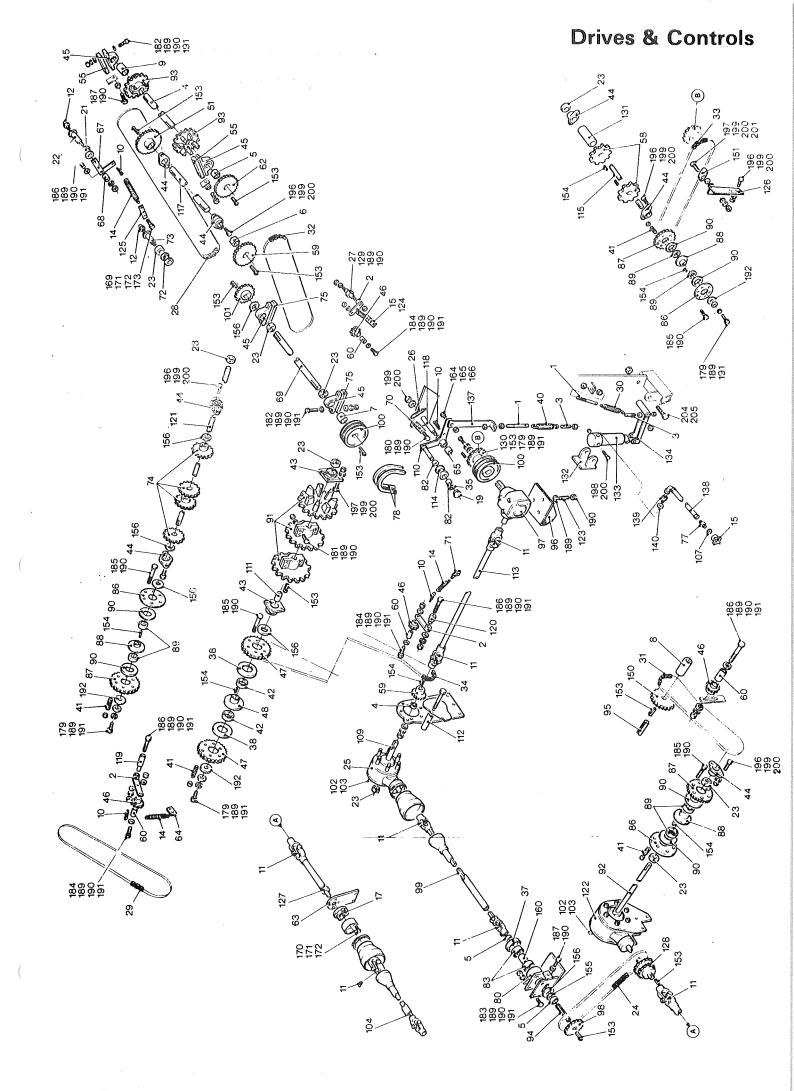
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Discharge Elevator				
Item No	Part No.	Description	Qty per Assy	Remarks
1	11032	Flanged Roller	2	
2 3	11033 11034	Plain Roller Plain Rubber Roller	10	
4	11037	Discharge Elevator Web	. 1	
5	11043	Discharge Elevator Belt Guide	1	
6 7	11125 11154	3/8" Dowty Seal Washer Discharge Elevator Drop Away Link	2	
8	11154	Discharge Elevator Drop Away Link	3	
9	10291	Ram Restrictor	2	
10 11	11265	Roller Spindle	18	
12	1	·		
13 14	11487 11488	Tip Grill Finger Tip Grill Front	5 1	
15	11489	Tip Grill Rear	1	
16				
17 18				
19	11750	Discharge Elevator Bottom		•
20	11751	Frame, Rear	1	
20	11751	Discharge Elevator, Bottom Frame, Front	1	
21	11752	Discharge Elevator Top Frame	1	
22 23	11753 11754	Hydraulic Ram Bearings	3	,
24	11755	Discharge Elevator Roller		
~-		Support	1	
25	11756	Discharge Elevator Bottom Roller Support	1	
26	11757	Discharge Elevator Roller Support	l '	
		Pivot Spigot	1	
27	11758	Discharge Elevator Roller Support Pivot Shaft	1	·
28	11759	Discharge Elevator Bottom		·
29	11760	Roller Spigot Discharge Elevator Bottom Roller	2	
29	11700	Adjuster	2	
30	11761	Discharge Elevator Drive Guard		
31	11762	Back Plate Roller Carriage Front Plate		
32	11763	Roller Carriage Rear Plate	l i	
33	11764	Roller Carriage Bearing Pin	3	· ·
34 35	11765 11766	Roller Carriage Bearing Spacer Roller Carriage Link Spacer	6 2	
36	11767	Bush 20 ½ x 15 LG	-	
37	11768	Roller Carriage Pivot Pin	2	
38 39	11769 11770	Roller Carriage Ram End Boss Discharge Elevator Connecting	1	
		Link	1	
40 41	11771 11772	Bush 20% x 12 LG Connecting Link Spindle		
42	11773	Ram Pivot Pin	1 1	
43	,			
44 45	11776	Discharge Elevator Bottom Roller	İ	
40	11770	Support Latch	1	
46			İ	
47 48			ļ	
49	11780	Discharge Elevator Stay	1	
50	11781	Discharge Elevator Stay Hook	1	
51	11782	$\frac{3}{8}$ " Hose 24 Long, One End $\frac{3}{8}$ " FN ST Other $\frac{3}{8}$ " 90° Female	1	
52	11790	38" Hose 26 Long, One End 38 FM	1	
53	13036	ST Other 3, 90° FM Elevator Stay End (Rose)	1 1	
54		2.5 tato: Stay End (1036)	'	
55	D20	Spacer	2	
56 57	6005RS GS412	Bearing Grease Nipple	40 3	
58	PH51AR	Flanged Roller	- 8	
59 60	PH77AR	Plain Roller	2	
60 61	PH407	Inner Plastic Seal	16	
62	PH408	Outer Plastic Seal	16	
63 64	PS843	Circlip	38	·
65	, 5575	Girchip	30	ĺ
			1	
Ni family belongs to be reserved			<u> </u>	

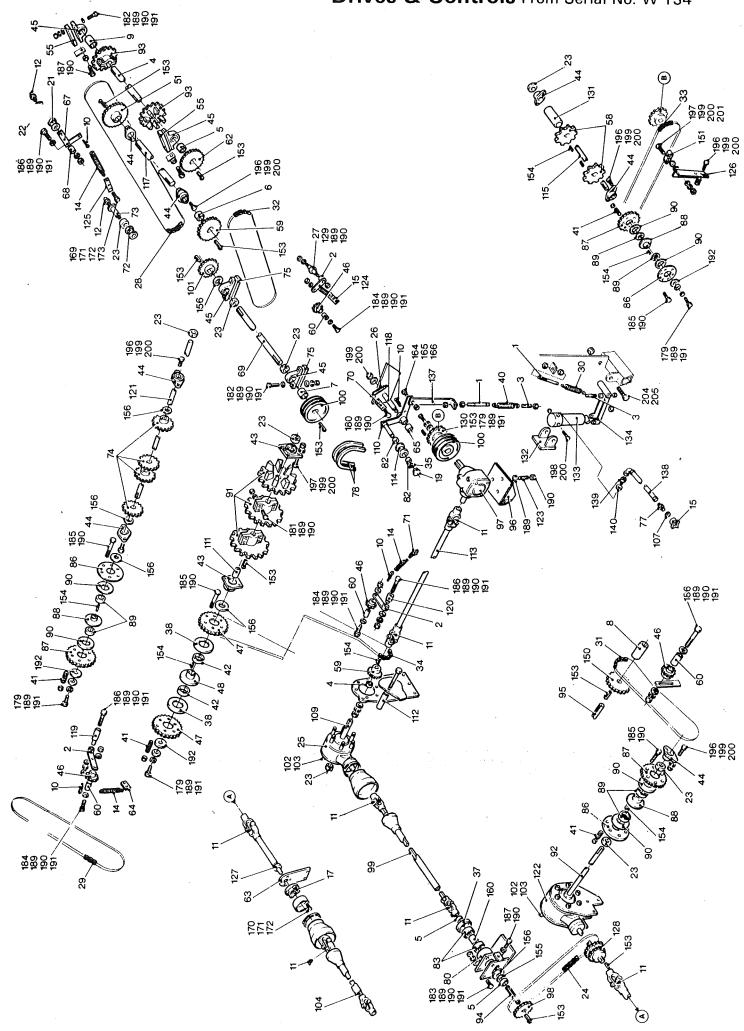
Item No	Part No.	Description	Qty per Assy	Remarks
66 67 68 69	TRH158AM TRH162M TRH361 SS/025 013/045	Top Grill Tie Bar Discharge Elevator Tie Bar Elevator Lats Steel Spacer	1 2 29 2	
70 71 72 73 74	SS/025/ 013/034	Steel Spacer M8 x 25 Hex Hd Bolt M8 Spring Washer M8 Nut	2 2 2 2 2	·
75 76 77 78 79 80 81		M16 x 70 Hed Hd Setscrew M16 x 35 Hex Hd Bolt M16 x 50 Hex Hd Bolt M16 Spring Washer M16 Plain Washer M16 Nut	1 2 6 28 11 27	
82 83 84 85 86		M12 x 60 Hex Hd Bolt M12 Plain Washer M12 Nut	2 2 2	
87 88 89 90 91		M10 x 25mm Hed Hd Bolt M10 Spring Washer M10 Plain Washer M10 Nut	2 2 2 2	·
92 93 94		M24 Lock Nut 11/8" UNC Lock Nut	1	,
				.·
	·			
				·
				·
	·			



D114C3	Drives and Controls					
Item No	Part No.	Description	Qty per Assy	Remarks		
1	вм82м	Spring Tensioner	2			
2	BM 184A	Jockey Arm	3			
3	BM 212M	Spring Tensioner	2			
4	BMZ 64M	Discharge Elevator Top Shaft	1			
5	C 10	Spacer	4			
6	C 15	Spacer	1			
7	C 46	Spacer	1			
8	C 60	Spacer	1			
9	C 100	Spacer	1 1			
10	GS 378	Split Pin	4			
11	GS 409	Grease Nipple (Angled)	7			
12	GS 412	Grease Nipple (Straight)	2			
13	U 121/B	Spring	3			
14 15	H 121/B H 420	Spring Exactor Coupling (Complete)	1 1			
16	H 420	Exactor Soupring (Complete)	'			
17	MFC 30	Bearing	1			
18	11111 0 00	Bouring	1			
19	PH 408	Outlet Plastic Seal	1			
20		· · · · · · · · · · · · · · · · · · ·	1			
21	PS 215	Jockey Roller	1			
22	PS 264M	Jockey Roller Shoulder Bolt	1 1			
23	PS 326M	Collar, Locking 30mm Dia	9			
24	PS 429/91	Chain	1	(n		
25	PS 450-2TM	Gearbox	RF 1	(Page 28)		
26	PS 457	Spring	1 1			
27	PS 488M	Collar Chain	li			
28 29	PS 599/103 PS 666/114	Chain	l i			
30	PS 766	Spring	li			
31	PS 871/76	Chain	1			
32	PS 871/80	Chain	1			
33	PS 871/96	Chain	1	į.		
34	PS 871/106	Chain	1			
35	PS 843	Circlip	1			
36						
37	PT 50M	Bearing Housing Dust Cap	1			
38	PT 51M	Ferodo Clutch Disc	2			
39 40	RH 80	Spring	1			
41	RH 149	Spring	24			
42	S/72/16	Bearing	2			
43	SF 40	Bearing	2			
44	SFT 30	Bearing	7			
45	SLG 30	Bearing	4			
46	SP 295	Plastic Sprocket	4			
47	SP 523	Clutch Sprocket	2			
48	SP 524M	Clutch Centre Plate	1			
49						
50 51	TBM 64AM	Discharge Elevator Top Drive	!			
51	, I DIVI O-PAIVI	Sprocket	1			
52	1		ļ .			
53						
54	[1			
55	TBMW 143	Spacer	2			
56						
57	 	a la companya	1 _			
58	TBMW 162	Sprocket 9T (Split)	2			
59	TBMW 172	Sprocket 19T	2			
60	TBMW 178	Jockey Spindle	"			
61 62	TBMW 206	Sprocket 26T	1			
63	TRH 48	Main Drive Bracket	1			
64	TRH 120	Trash Elevator Spring Tension Tab	1			
65	TRH 128	Discharge Elevator Drive Belt		· ·		
		Pulley Guard Bolt Spacer	1			
66						
67	TRH 149	Discharge Elevator Jockey Arm	1			
68	TRH 150M	Discharge Elevator Jockey Arm	1 .			
	TOU 45414	Spigot	1 1			
69 70	TRH 151M TRH 157	Discharge Elevator Counter Shaft Discharge Elevator Jockey Spring	Ι'			
"	ומו ומו	Tensioner	1			
71	TRH 210	Main Web Drive Spring Tension	Ι΄.			
'		Tab	1			
72	TRH 415	Jockey Roller	1			
73	TRH 416	Jockey Roller Spindle	1			
			<u></u>			

Item No	Part No.	Description	Qty per Assy	Remarks
74 75	TRH 422 TRH 440	Drive Sprocket Spacer	4 2	
76	. 11111 440	Spacei	'	·
77	UC 31	Double Ended Male Connector	1	
78	VB 60	Vee Belt	2	
79 80	VRT 23M	Bearing Housing	1	
81	1 20	Boding Housing	'	
82	6200RS	Bearing	2	
83 84	6306RS	Bearing	2	
85			i .	
86	11002	Clutch Plate	3	
87	11003	Clutch Sprocket	3	
88 89	11004 11005	Clutch Centre Clutch Bearing	3 6	
90	11006	Ferodo Clutch Disc	6	
91	11024	Main Elevator Web Sprocket	RF	(Page 16)
92	11027	Main Drive Gearbox Shaft	1	ii age ie/
93 94	11035 11038	Discharge Elevator Web Sprocket Bearing Housing Shaft	2	
95	11038	Top Track Drive Shaft	RF	(Page 14)
96	11049	Gearbox Support Bracket	RF	(Page 16)
97	11051	Hilton Gearbox 1:1	1 1	
98 99	11062 11063	Sprocket 19T x 1 in.	1	
99	11003	Hardy Spicer Gearbox Coupling Shaft	1	
100	11064	Double Pulley	2	
101	11065	Discharge Elevator Drive Sprocket	1	
102	11066	Gearbox Breather	RF	(Page 28)
103 104	11069 11078	Gearbox Breather Plug PTO Coupling Drive Shaft	RF 1	(Page 28)
105	11070	1 10 Coupling Brive Shart	'	•
106		ļ		
107	11125	Washer	1	
108 109	11140	Banjo Gearbox Output Shaft	1	
110	11141	Discharge Elevator Belt Jockey	'	
I		Segment	1	
111	11142	Main Web Shaft	1 1	1 5
112 113	11174 11175	Gearbox Spacer Banjo Gearbox Drive Shaft	RF 1	(Page 20)
114	11176	Jockey Roller		
115	11177	Cross Web Drive Shaft	1	,
116				
117 118	11253 11255	Intermediate Drive Shaft Guard Belt	1 1	
119	11263	Jockey Arm Spigot	'	
120	11264	Jockey Arm Spigot	i	
121	11267	Trash Extractor Web Spigot	1	
122	11279	Gearbox	RF	(Page 28)
123	11280 11282	Gearbox Mounting Stud Spring Tab	6	
125	11283	Spring Tab		
126	11298	Tension Bracket	1	
127	11306 11307	Input Drive Shaft	1	TRH Mk 2 only
128	11307	Input Drive Shaft Main Drive Sprockets 21T and 17T	1 1	Turbobeet only
129	11310	Guard Bolt	RF	(Page 30)
130	11311	Sprocket 21T	1	
131	11323	Plastic Guard	1 1	
132 133	11325 11330	Ram Support Bracket Ram	1 1	
134	11331	Ram Adjustment Arm		
135		-		
136	11204	Tania lin	.	,
137 138	11334 11335	Tension Link Hydraulic Hose	1 1	
139	11336	Reducing Adaptor Male/Male	1	
140	11337	Washer	i	
141	į			
142 143	İ			
144				
145	- 1			
146	ļ	İ		
147 148		1		
170				·

tem No	Part No.	Description	Qty per Assy	Remarks
149 150 151 152 153 154 155 156	17076 17155	Sprocket 29T x 0.75 in. Chain Tension Block Jib Head Key RBE Key Plain Washer 55mm Dia 30mm Bore	1 1 12 6	
157 158 159		Plain Washer 75mm Dia 30mm Bore	7	
160 161 162	C 37	Plastic Spacer M6 x 35mm Hex Hd Bolt	1	
164 165 166 167 168 169		M6 Spring Washer M6 Nut	1	
170 171 172 173 174 175 176 177		M8 x 50mm Hex Hd Bolt M8 Spring Washer M8 Nut	3 4 4	
179 180 181 182 183 184 185 186 187	·	M10 x 30mm Hex Hd Bolt M10 x 40mm Hex Hd Bolt M10 x 45mm Hex Hd Bolt M10 x 50mm Hex Hd Bolt M10 x 60mm Hex Hd Bolt M10 x 65mm Hex Hd Bolt M10 x 75mm Hex Hd Bolt M10 x 90mm Hex Hd Bolt M10 x 100mm Hex Hd Bolt	7 12 8 4 3 24 3	
188 189 190 191 192 193 194 195	,	M10 Spring Washer M10 Nut M10 Plain Washer M10 Plain Washer 73mm Dia	38 61 22 3	
196 197 198 199 200 201 202 203		M12 x 40mm Hex Hd Bolt M12 x 50mm Hex Hd Bolt M12 x 100mm Hex Hd Bolt M12 Spring Washer M12 Nut M12 Plain Washer	12 12 2 31 23 6	
204 205		M20 x 130mm Hex Hd Bolt M20 Locknut	1	
		·	:	

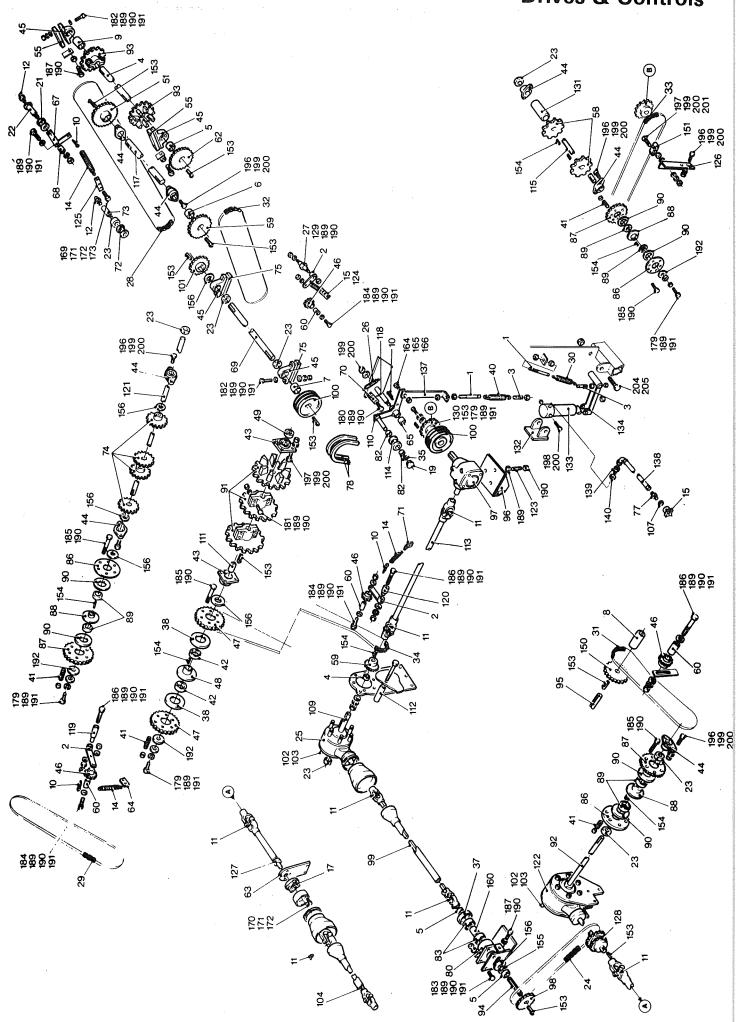


Item No	Part No.	Description	Qty per Assy	Remarks
1	BM82M	Spring Tensioner	. 2	
2	BM 184A	Jockey Arm	3	
3	BM 212M	Spring Tensioner	2	
4	BMZ 64M	Discharge Elevator Top Shaft	1	
5	C 10	Spacer	4	
6	C 15	Spacer	1	
7 8	C 46 C 60	Spacer Spacer	1 1	
9	C 100	Spacer	li	
10	GS 378	Split Pin	4	
11	GS 409	Grease Nipple (Angled)	7	
12	GS 412	Grease Nipple (Straight)	2	
13 14	H 121/B	Spring	3	
15	H 420	Exactor Coupling (Complete)	1 1	
16		, , , , , , , , , , , , , , , , , , ,		
17	MFC 30	Bearing	1	
18	D) 1 400		١.,	
19 20	PH 408	Outlet Plastic Seal	1	· ·
20	PS 215	Jockey Roller	1	
22	PS 264M	Jockey Roller Shoulder Bolt	li	
23	PS 326M	Collar, Locking 30mm Dia	9	
24	PS 429/91	Chain	1	(0
25	PS 450-2TM	Gearbox	RF	(Page 28)
26 27	PS 457 PS 488M	Spring Collar	1	
28	PS 599/103	Chain	li	
29	PS 666/114	Chain	1	
30	PS 766	Spring	1	·
31	PS 871/76	Chain	1	
32	PS 871/80 PS 871/96	Chain Chain	1	
33	PS 871/106	Chain	li	
35	PS 843	Circlip	1	
36		•		
37	PT 50M	Bearing Housing Dust Cap	1	
38	PT 51M	Ferodo Clutch Disc	2	
39 40	RH 80	Spring	1	
41	RH 149	Spring	24	,
42	S/72/16	Bearing	2	
43	SF 40	Bearing	2	
44	SFT 30 SLG 30	Bearing	7	· ·
45 46	SP 295	Bearing Plastic Sprocket	4	
47.	SP 523	Clutch Sprocket	2	
48	'SP 524M	Clutch Centre Plate	1	
49				
50	TD14 04 4 4 4	Dischause Flausten Ten Britis		
51	TBM 64AM	Discharge Elevator Top Drive Sprocket	1	
52		Opi Ochot	'	
53				
54			1	
55	TBMW 143	Spacer	2	
56 57			1	
58	TBMW 162	Sprocket 9T (Split)	2	
59	TBMW 172	Sprocket 19T	2	
60	TBMW 178	Jockey Spindle	4	
61			١.	· ·
62	TBMW 206	Sprocket 26T	1 1	
63 64	TRH 48 TRH 120	Main Drive Bracket Trash Elevator Spring Tension Tab	1 1	
65	TRH 128	Discharge Elevator Drive Belt	'	
		Pulley Guard Bolt Spacer	1	
66			1.	
67	TRH 149	Discharge Elevator Jockey Arm	1	
68	TRH 150M	Discharge Elevator Jockey Arm Spigot	1	
69	TRH 151M	Discharge Elevator Counter Shaft	li	
70	TRH 157	Discharge Elevator Jockey Spring		
]		Tensioner	1	
71	TRH 210	Main Web Drive Spring Tension		
72	TRH 415	Tab Jockey Roller	1 1	
				•
73	TRH 416	Jockey Roller Spindle	1	

Item No	Part No.	Description	Qty per Assy	Remarks
74	TRH 422	Drive Sprocket	4	
75	TRH 440	Spacer	2	
76 77	UC 31	Double Ended Male Connector	1	
78	VB 60	Vee Belt	2	
79	V57 0011	1		
80 81	VRT 23M	Bearing Housing	1	·
82	6200RS	Bearing	2	
83 84	6306RS	Bearing	2	
85			1	
86	11002	Clutch Plate	. 3	
87 88	11003 11004	Clutch Sprocket Clutch Centre	3	
89	11005	Clutch Bearing	6	
90	11006	Ferodo Clutch Disc	6	
91 92	11024 11027	Main Elevator Web Sprocket Main Drive Gearbox Shaft	RF 1	(Page 16)
93	11035	Discharge Elevator Web Sprocket	2	
94 95	11038 11044	Bearing Housing Shaft Top Track Drive Shaft	1 RF	(Page 14)
96	11049	Gearbox Support Bracket	RF	(Page 16)
97	11051	Hilton Gearbox 1:1	1	
98 99	11062 11063	Sprocket 19T x 1 in. Hardy Spicer Gearbox Coupling	1	
		Shaft	1	
100 101	11064 11065	Double Pulley Discharge Elevator Drive Sprocket	2	
102	11066	Gearbox Breather	RF	(Page 28)
103	11069	Gearbox Breather Plug	RF	(Page 28)
104 105	11078	PTO Coupling Drive Shaft	1	Replaced by 11557 from March 1981
106			l	
107 108	11125	Washer	1	
109	11140	Banjo Gearbox Output Shaft	1	
110	11141	Discharge Elevator Belt Jockey		
111	11142	Segment Main Web Shaft	1 1	
112	11174	Gearbox Spacer	RF	(Page 20)
113 114	11175 11176	Banjo Gearbox Drive Shaft Jockey Roller	1	
115	11177	Cross Web Drive Shaft	1	
116	11050	Intermediate Drive Shaft	1	
117 118	11253 11255	Guard Belt	1	
119	11263	Jockey Arm Spigot	1	
120 121	11264 11267	Jockey Arm Spigot Trash Extractor Web Shaft	1 1	
122	11279	Gearbox	RF	(Page 28)
123	11280	Gearbox Mounting Stud	6	
124 125	11282 11283	Spring Tab Spring Tab	1 1	
126	11298	Tension Bracket	1	
127	11306 11307	Input Drive Shaft Input Drive Shaft	1 1	TRH Mk 2 only) Replaced by 11558 and PS 326M Turbobeet only) from March 1981
128	11307	Main Drive Sprockets 21T and 17T	1	Tarboneer only 1 (form March 1981
129	11310	Guard Bolt	RF	(Page 30)
130 131	11311 11323	Sprocket 21T Plastic Guard	1 1	
132	11325	Ram Support Bracket	1	·
133	11330	Ram	1 1	
134 135	11331	Ram Adjustment Arm	'	
136	44000			
137 138	11334 11335	Tension Link Hydraulic Hose	1 1	
139	11336	Reducing Adaptor Male/Male	1	
140	11337	Washer	1	
141 142		•		
143				
144 145				
146				
147				
148]	

17076 17155	One short OOT to O JE 1		
	Sprocket 29T x 0.75 in. Chain Tension Block	1	
	Jib Head Key RBE Key	12 6	
	Plain Washer 55mm Dia 30mm Bore	1	
	Plain Washer 75mm Dia 30mm Bore	7	
C 37	Plastic Spacer	1	
	M6 x 35mm Hex Hd Bolt M6 Spring Washer M6 Nut	1 `1 1	
	M8 x 50mm Hex Hd Bolt M8 Spring Washer M8 Nut	3 4 4	:
	M10 x 30mm Hex Hd Bolt M10 x 40mm Hex Hd Bolt M10 x 45mm Hex Hd Bolt M10 x 50mm Hex Hd Bolt M10 x 60mm Hex Hd Bolt M10 x 65mm Hex Hd Bolt M10 x 75mm Hex Hd Bolt M10 x 100mm Hex Hd Bolt	7 1 12 8 4 3 24 3	
	M10 Spring Washer M10 Nut M10 Plain Washer M10 Plain Washer 73mm Dia	38 61 22 3	
,	M12 x 40mm Hex Hd Bolt M12 x 50mm Hex Hd Bolt M12 x 100mm Hex Hd Bolt M12 Spring Washer M12 Nut M12 Plain Washer	12 12 2 31 23 6	
	M20 x 130mm Hex Hd Bolt M20 Locknut	1	
	·		
	C 37	C 37 Plastic Spacer M6 × 35mm Hex Hd Bolt M6 Spring Washer M6 Nut M8 × 50mm Hex Hd Bolt M8 Spring Washer M8 Nut M10 × 30mm Hex Hd Bolt M10 × 40mm Hex Hd Bolt M10 × 45mm Hex Hd Bolt M10 × 50mm Hex Hd Bolt M10 × 65mm Hex Hd Bolt M10 × 65mm Hex Hd Bolt M10 × 75mm Hex Hd Bolt M10 × 90mm Hex Hd Bolt M10 × 100mm Hex Hd Bolt M10 × 100mm Hex Hd Bolt M10 × 100mm Hex Hd Bolt M10 Nut M10 Plain Washer M10 Nut M10 Plain Washer M10 Plain Washer M10 Plain Washer M10 Plain Washer M10 Plain Washer M12 × 100mm Hex Hd Bolt M12 × 50mm Hex Hd Bolt M12 × 100mm Hex Hd Bolt M12 Spring Washer M12 Nut M12 Plain Washer M20 × 130mm Hex Hd Bolt	30mm Bore 7 7 7 7 7 7 7 7 7

Drives & Controls

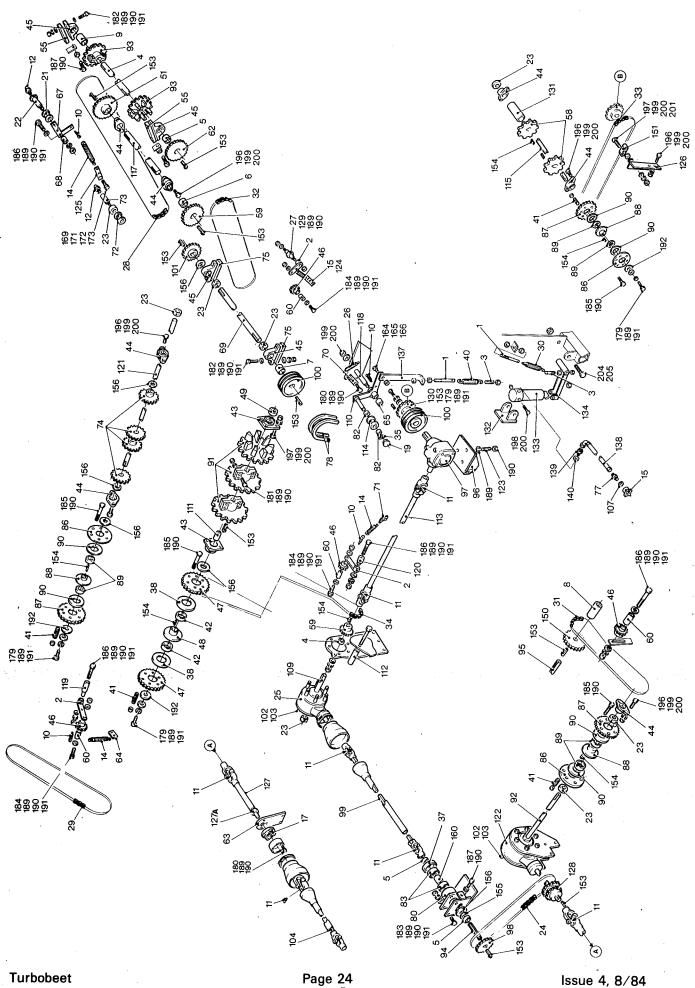


Item No	Part No.	Description	Qty per Assy	Remarks
1	BM82M	Spring Tensioner	2	
2	BM 184A	Jockey Arm	3	
3	BM 212M	Spring Tensioner	2	
4	BMZ 64M	Discharge Elevator Top Shaft	1	
5	C 10	Spacer Spacer	1 4	
6	C 15	Spacer	1	·
7	C 46	Spacer	li	
8	C 60	Spacer	li	·
9	C 100	Spacer	1	
10	GS 378	Split Pin	4	
11	GS 409	Grease Nipple (Angled)	7	
12	GS 412	Grease Nipple (Straight)	2	
13				·
14	H 121/B	Spring	3	
15	H 420	Exactor Coupling (Complete)	1	
16]		
17	MFC 30	Bearing	1	
18	D14 400	0.4.19.1.0.1	١.	
19	PH 408	Outlet Plastic Seal	1	
20 21	PS 215	Jockey Roller	1	
21	PS 215 PS 264M	Jockey Roller Shoulder Bolt		
23	PS 326M	Collar, Locking 30mm Dia	7	
24	PS 429/91	Chain	1	·
25	PS 450-2TM	Gearbox	RF	(Page 28)
26	PS 457	Spring	1	V-2
27	PS 488M	Collar	i	
28	PS 599/103	Chain	1	
29	PS 666/114	Chain	1	
30	PS 766	Spring	1	
31	PS 871/76	Chain	1	•
32	PS 871/80	Chain	1	. ,
33	PS 871/96	Chain	1 1	
34	PS 871/106	Chain	1 1	
35	PS 843	Circlip	1	
36	DT 5014	Barata a Harrian Brest Con	1	
37	PT 50M	Bearing Housing Dust Cap	1 2	
38 39	PT 51M	Ferodo Clutch Disc	′	
40	RH 80	Spring	1 1	
41	RH 149	Spring	24	
42	S/72/16	Bearing	2	
43	SF 40	Bearing	2	•
44	SFT 30	Bearing	7	·
45	SLG 30	Bearing	4	
46	SP 295	Plastic Sprocket	4	
47	SP 523	Clutch Sprocket	2	
48	SP 524M	Clutch Centre Plate	1	
49	ST 41M	Stop Collar	2	
50				
51	TBM 64AM	Discharge Elevator Top Drive	l .	
		Sprocket	1	
52				
53 54			l	
55	TBMW 143	Spacer	2	
56	1 011144 143	Spacer		
57		·	l .	
58	TBMW 162	Sprocket 9T (Split)	2	
59	TBMW 172	Sprocket 19T	2	
60	TBMW 178	Jockey Spindle	4	
61			l	
62	TBMW 206	Sprocket 26T	1	
63	TRH 48	Main Drive Bracket	1	
64	TRH 120	Trash Elevator Spring Tension Tab	1	
65	TRH 128	Discharge Elevator Drive Belt	i .	
		Pulley Guard Bolt Spacer	1	
66	44074	Black as Fig. 1. 1. 1.	1 .	
67	11274	Discharge Elevator Jockey Arm	1	
68	11273	Discharge Elevator Jockey Arm		
ا م	TDU 15114	Spigot	1 1	
69	TRH 151M	Discharge Elevator Counter Shaft	l '	
70	TRH 157	Discharge Elevator Jockey Spring	1	
J. 1	TOU 010	Tensioner	j ' :	
71	TRH 210	Main Web Drive Spring Tension	,	
72	TOU ALE	Tab Jockey Roller	1 1	
72 73	TRH 415	Jockey Roller Spindle	1	
/3	11272	Jockey Moner Spinule	'	

	ves and Controls (Cont.)					
Item No	Part No.	Description	Qty per Assy	Remarks		
74	TRH 422	Drive Sprocket	4			
75	TRH 440	Spacer	2			
76	•		l			
77	UC 31	Double Ended Male Connector	1	·		
78	VB 60	Vee Belt	2			
79 80	VRT 23M	Bearing Housing	1			
81	V 11 1 25W	dearing floasing	1			
82	6005RS	Bearing	2			
83	6306RS	Bearing	2	·		
84 85				:		
86	11002	Clutch Plate	3			
87	11003	Clutch Sprocket	3	·		
88	11004	Clutch Centre	3			
89	11005	Clutch Bearing	6			
90 91	11006 11024	Ferodo Clutch Disc Main Elevator Web Sprocket	RF	(D-m-16)		
92	11027	Main Drive Gearbox Shaft	''i	(Page 16)		
93	11035	Discharge Elevator Web Sprocket	2			
94	11038	Bearing Housing Shaft	1	(5 A 4)		
95 06	11044	Top Track Drive Shaft	RF	(Page 14) (Page 16)		
96 97	11049 11051	Gearbox Support Bracket Hilton Gearbox 1:1	RF 1	(rage 10)		
98	11062	Sprocket 19T x 1 in.	li			
99	11063	Hardy Spicer Gearbox Coupling		, i		
		Shaft	1	ù		
100 101	11064 11065	Double Pulley Discharge Elevator Drive Sprocket	2	·		
101	11066	Gearbox Breather	l 1 RF	(Page 28)		
103	11069	Gearbox Breather Plug	RF	(Page 28)		
104	11078	PTO Coupling Drive Shaft	1	Replaced by 11557 from March 1981		
105						
106 107	11125	Washer	1			
108	11125	AAGSIIGI	' '			
109	11140	Banjo Gearbox Output Shaft	1	••		
110	11141	Discharge Elevator Belt Jockey				
	ا مدمد	Segment	1			
111 112	11142 11174	Main Web Shaft Gearbox Spacer	1 RF	(Page 20)		
113	11175	Banjo Gearbox Drive Shaft	'i	(1 age 20)		
114	11176	Jockey Roller	1			
115	11177	Cross Web Drive Shaft	1.			
116	11050	Intermediate Drive Chafe				
117 118	11253 11255	Intermediate Drive Shaft Guard Belt	1			
119	11263	Jockey Arm Spigot	1			
·120	11264	Jockey Arm Spigot	1			
121	11267	Trash Extractor Web Shaft	_1_	4-		
122 123	11279	Gearbox Gearbox Mounting Stud	RF 6	(Page 28)		
124	11280 11282	Spring Tab	1	·		
125	11283	Spring Tab	li			
126	11298	Tension Bracket	1			
127	11306	Input Drive Shaft	1	TRH Mk 2 only) Replaced by 11558 and PS 326M		
120	11307 11308	Input Drive Shaft	1 1	Turbobeet only) from March 1981		
128 129	11308	Main Drive Sprockets 21T and 17T Guard Bolt	1 RF	(Page 30)		
130	11311	Sprocket 21T	1	(, 452 00)		
131	11323	Plastic Guard	1			
132	11325	Ram Support Bracket	1			
133 134	11330 11331	Ram Ram Adjustment Arm	1			
135	11331	Ham Adjustment Atm	'			
136						
137	11334	Tension Link	1			
138	11335	Hydraulic Hose	1			
139 140	11336 11337	Reducing Adaptor Male/Male Washer	1			
141	11337	**051161	'			
142	l					
143						
144	ł					
145 146	ł	į				
147	<u>, </u>					
148	I	, a				

Drives	Prives and Controls (Cont.)					
Item No	Part No.	Description	Qty per Assy	Remarks		
149 150 151 152	17076 17155	Sprocket 29T x 0.75 in. Chain Tension Block	1 1	·		
153 154		Jib Head Key RBE Key	12 6			
155 156	,	Plain Washer 55mm Dia 30mm Bore	1			
157		Plain Washer 75mm Dia 30mm Bore	7			
158 159 160 161	C 37	Plastic Spacer	1			
162 164 165 166 167		M6 x 35mm Hex Hd Bolt M6 Spring Washer M6 Nut	1 1			
168 169 170 171 172 173 174 175		M8 x 50mm Hex Hd Bolt M8 Spring Washer M8 Nut	3 4 4			
176 177 178 179 180 181 182 183 184 185 186 187		M10 x 30mm Hex Hd Bolt M10 x 40mm Hex Hd Bolt M10 x 45mm Hex Hd Bolt M10 x 50mm Hex Hd Bolt M10 x 60mm Hex Hd Bolt M10 x 65mm Hex Hd Bolt M10 x 75mm Hex Hd Bolt M10 x 90mm Hex Hd Bolt	7 1 12 8 4 3 24 3			
188 189 190 191 192 193 194		M10 Spring Washer M10 Nut M10 Plain Washer M10 Plain Washer 73mm Dia	38 61 22 .3			
195 196 197 198 199 200 201 202		M12 x 40mm Hex Hd Bolt M12 x 50mm Hex Hd Bolt M12 x 100mm Hex Hd Bolt M12 Spring Washer M12 Nut M12 Plain Washer	12 12 2 31 23 6			
203 204 205		M20 x 130mm Hex Hd Bolt M20 Locknut	1 1			
سنيسب	<u></u>	<u> </u>				

Drives & Controls



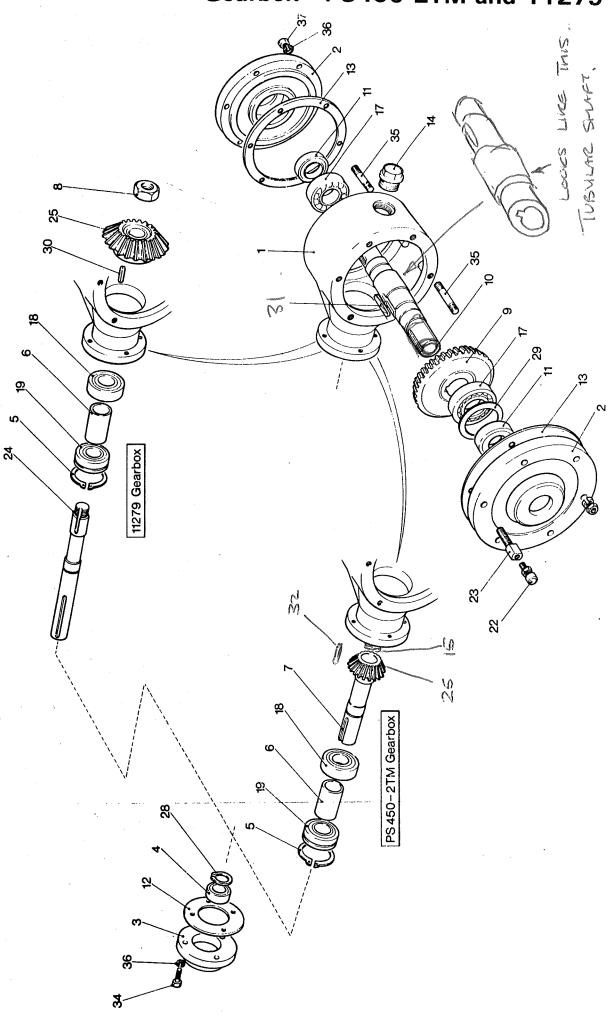
Issue 4, 8/84

Item No	Part No.	Description	Qty per Assy	Remarks
1	BM82M	Spring Tensioner	2	
2	BM 184A	Jockey Arm	3	
3	BM 212M	Spring Tensioner	2	
ă	BMZ 64M	Discharge Elevator Top Shaft	1	•
5	C 10	Spacer	4	
6	C 15	Spacer	1 1	
7	C 46	Spacer	1	
8	C 60	Spacer	1	
9	C 100	Spacer	1	
10	GS 378	Split Pin	4	
11	GS 409	Grease Nipple (Angled)	7	
12	GS 412	Grease Nipple (Straight)	2	
13		1	1	
14	H 121/B	Spring	3	•
15	H 420	Exactor Coupling (Complete)	1	
16	MEC 35		١.	B AN AFO CO B : A CONTAIN
17 18	MFC 35	Bearing	1	Part No. was MFC 30 Prior to Serial No.
19	PH 408	Outlet Plastic Seal	1	TRH MK2 Y1544 - Turbobeet Y228
20	111900	Outlet Flastic Seal	l '	
21	PS 215	Jockey Roller	1	1
22	PS 264M	Jockey Roller Shoulder Bolt	li	
23	PS 326M	Collar, Locking 30mm Dia	1 7	
24	PS 429/91	Chain	1 1	
25	PS 450-2TM	Gearbox	RF	(Page 28)
26	PS 457	Spring	1	
27	PS 488M	Collar	1	
28	PS 599/103	Chain	1	
29	PS 666/114	Chain	1	·
30	PS 766	Spring	1	
31	PS 871/76	Chain	1	
32 33	PS 871/80	Chain	1 !	
34	PS 871/96 PS 871/106	Chain Chain	1 1	
35	PS 843	Circlip	1 ;	
36	13 043	- Chemp	'	
37	PT 50M	Bearing Housing Dust Cap	1	
38	PT 51M	Ferodo Clutch Disc	2	
39			1	
40	RH 80	Spring	1	
41	RH 149	Spring	24	
42	S/72/16	Bearing	2	
43	SF 40	Bearing] 2	
44	SFT 30	Bearing	7	
45 46	SLG 30 SP 295	Bearing Plastic Sprocket	4	·
47	SP 523	Clutch Sprocket	2	
48	SP 524M	Clutch Centre Plate	ĺ	
49	ST 41M	Stop Collar	2	
50	0, ,,,,,	Otop Conai	~	
51	TBM 64AM	Discharge Elevator Top Drive]	·
		Sprocket	1	
52				İ
53				
54			_	
55	TBMW 143	Spacer	2	
- 56 57]	
57 58	TBMW.152	Sprocken9T (Split) 13314.	_	
59	TBMW 172	Sprocket 19T	2 2	
60	TBMW 178	Jockey Spindle	4	
61	70	SSERRY OPHICIE		
62	TBMW 206	Sprocket 26T	1	
63	TRH 48	Main Drive Bracket	i	Superseded from Serial No. TRH MK2 Y1544
64	TRH 120	Trash Elevator Spring Tension Tab	1	Turbobeet Y228
65	TRH 128	Discharge Elevator Drive Belt	ļ İ	.
		Pulley Guard Bolt Spacer	1	
66		l		
67	11274	Discharge Elevator Jockey Arm	1	
68	11273	Discharge Elevator Jockey Arm		
60	TDU 15144	Spigot	1	
69 70	TRH 151M TRH 157	Discharge Elevator Counter Shaft Discharge Elevator Jockey Spring	1	
,,	1111137	Tensioner	1	
71	TRH 210	Main Web Drive Spring Tension	'	
	.,,,,,,,,,	Tab	1	
72	TRH 415	Jockey Roller	1	
73	11272.	Jockey Roller Spindle	1	
			l	

Item No	Part No.	Description	Qty per Assy	· Remarks
74	TRH 422	Drive Sprocket	2	
75 76	TRH 440	Spacer	^	
77	UC 31	Double Ended Male Connector	1	
78	VB 60	Vec Belt	2	
79			1.	
80	VRT 23M	Bearing Housing	1	
81 82	6005RS	Bearing	2	
83	6306RS	Bearing	2	
84			ľ	
85		Olan to Blance	-3	
86 87	11002 11003	Clutch Plate Clutch Sprocket	3	
88	11003	Clutch Centre	3	
89	11005	Clutch Bearing	6	
90	11006	Ferodo Clutch Disc	6	
91 92	11024 11027	Main Elevator Web Sprocket Main Drive Gearbox Shaft	RF 1	(Page 16)
93	11027	Discharge Elevator Web Sprocket	2	
94	11038	Bearing Housing Shaft	1	
95	11044	Top Track Drive Shaft	RF	(Page 14)
96 97	11049 11051	Gearbox Support Bracket	RF 1	(Page 16)
97 98	11051	Hilton Gearbox 1:1 Sprocket 19T x 1 in.		
99	11844	Hardy Spicer Gearbox Coupling		-Part No. was 11063 Prior to serial No.
	_	Shaft	1	TRH MK2 Y1544 - Turbobeet Y228
100	SPCL 526	Double Pulley	2	
101 102	11065 11066	Discharge Elevator Drive Sprocket Gearbox Breather	RF	See Back Page of Amendments
103	11069	Gearbox Breather Plug	RF	See back page of Amendments
104	13019	PTO Coupling Drive Shaft	1	-Part No. was 11078 prior to March 1981
105				Part No. was 11557 prior to serial No.
106 107	11125	Washer	1	TRH MK2 Y1544 - Turbobeet Y228
108	11125	**051161	•	
109	11140	Banjo Gearbox Output Shaft	1	
110	11141	Discharge Elevator Belt Jockey	and the same of th	
	4 4 4 4 7	Segment Main Web Shaft	1	
111 112	11142 11174	Gearbox Spacer	RF	(Page 20)
113	11175	Banjo Gearbox Drive Shaft	1	,, -9,
114	11176	Jockey Roller	1	
115	11177	Cross Web Drive Shaft	1	
116 117	11253	Intermediate Drive Shaft	1	
118	11255	Guard Belt	1	
119	11263	Jockey Arm Spigot	1	
120	11264	Jockey Arm Spigot	1	
121	11267 11822	Trash Extractor Web Shaft Gearbox	1 RF	-Part No. was 11279 prior to serial No.
123	11280	Gearbox Mounting Stud	6	TRH MK2 Y1544 - Turbobeet Y228
124	11282	Spring Tab	1	(see back page of amendments)
125	11283	Spring Tab	1	•
126	11298 11828 **	Tension Bracket	1	Part No. was 11558 , Prior to serial No.
127 127A	SPCT 131	Input Drive Shaft Stop Collar	1	Part No. was PS326M TRH MK2 Y1544
128	11826	Main Drive Sprockets 21T and 17T	i	Fait No. Was 11300 Turbobeet 1220
129	11310	Guard Bolt	RF	(Page 30)
130	11311	Sprocket 21T Plastic Guard	1 1	·
131 132	11323 11325	Ram Support Bracket	1	TIESO - TB 277A.
133	11330	Ram	i	* FROM SERIAL NO TURBO - TB 277A. TEHMKZ - LL 1584B.
134	11331	Ram Adjustment Arm	1	Par No 18 11870.
135				
136 137	11334	Tension Link	1	
138	11335	Hydraulic Hose	1 1	
139	11336	Reducing Adaptor Male/Male	1	
140	11337	Washer	1	
141				,
142				
144				
145				
146				
147				
148	1			

em No	Part No.	Description	Oty per Assy	Remarks	
49 50 51 52	17076 17155	Sprocket 29T x 0.75 in. Chain Tension Block	1		
53 54		Jib Head Key RBE Key	12 6		
56 56		Plain Washer 55mm Dia 30mm Bore	1		
57 58		Plain Washer 75mm Dia 30mm Bore	7		
59 50 51	C 37	Plastic Spacer	1		
62 64 65 66 67		M6 x 35mm Hex Hd Bolt M6 Spring Washer M6 Nut	1 1		
68 69 70 71 72 73 74		M8 x 50mm Hex Hd Bolt M8 Spring Washer M8 Nut	3 4 4		
6 7 8 9 9 0 1 2 3 4 5 6 7		M10 x 30mm Hex Hd Bolt M10 x 40mm Hex Hd Bolt M10 x 45mm Hex Hd Bolt M10 x 50mm Hex Hd Bolt M10 x 60mm Hex Hd Bolt M10 x 65mm Hex Hd Bolt M10 x 75mm Hex Hd Bolt M10 x 90mm Hex Hd Bolt	7 1 12 8 4 3 24 3		
8 9 0 1 2 3		M10 Spring Washer M10 Nut M10 Plain Washer M10 Plain Washer 73mm Dia	38 61 22 3		
4 5 6 7 7 9 0 1 2		M12 x 40mm Hex Hd Bolt M12 x 50mm Hex Hd Bolt M12 x 100mm Hex Hd Bolt M12 Spring Washer M12 Nut M12 Plain Washer	12 12 2 31 23 6		
3 4 5		M20 x 130mm Hex Hd Bolt M20 Locknut	1		
			up, which were the second		
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Gearbox - PS450-2TM and 11279



tem No	Part No.	Description	Qty per Assy	Remarks
1 2 3 4 5 6 7 8 9 10	PS 200/2M PS 201/2M PS 202 PS 233 PS 236 PS 237 PS 238/M PS 240/1 PS 242 PS 243/4M PS 245	Gearbox Housing Gearbox Side Plate Tail Shaft End Plate Tail Shaft Oil Seal Bearing Circlip Spacer Tail Shaft and Bevel Pinion Locknut Bevel Gear Output Shaft \$5 243 /M Output Shaft Oil Seal	1 2 1 1 1 1 1 1 1 1	(PS 450-2TM only) (11279 only)
12 13 14 15 16	PS 469 PS 470/A PS869 PS 240/1	Tail Shaft End Plate Gasket Gearbox Side Plate Gasket Drain/Filter Plug	1 2 1	
17 18 19	145 330 330/C	Output Shaft Bearing Tail Shaft Bearing Tail Shaft Bearing with Circlip Groove	2 1 1	
20 21 22 23 24 25 26	11066 11069 11277 11278	Gearbox Breather Gearbox Breather Plug Tail Shaft Bevel Pinion	1 1 1	(11279 only) (11279 only)
27 28 29 30 31 32 33		Tail Shaft Circlip Side Plate Shim RBE Key 8 x 7 x 25mm RBEKey 8 x 32mm RBEKey 8 x 32mm	1 AR 1	(11279 only) 5/16" × 13/4".
34 35 36 37		M10 x 30mm Hex Hd Bolt M10 Housing Stud M10 Spring Washer M10 Nut	4 11 15 11	
	•			
				·
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Guards 000000 ¢ 426324 $\tilde{\kappa}$ 30,52,53,54,55 46,47,48,49 27 46, 52838 52 53 54 55 404 400 400 400 450 40 1 4 4 4 4 7 8 8 0 8 58 26 25 **∽**864 24 86044 14

iuard				
Item No	Part No.	Description	Qty per Assy	Remarks
1	11047	Hydraulic Tank Rear Support Bracket	1	
2	11090	Top Track Canopy Hinge Tube		
3 4	11091 11147	Top Track Canopy Main Drive Guard	1 1	
5	11149	Main Drive Guard Cover	1	
6	11150	Main Web and Trash Extractor		
7	11151	Drive Guard Bottom Main Web and Trash Extractor	1 1	
8	11153	Drive Guard Top Main Web and Trash Extractor Drive Guard Cover	1	
9	11157	Main Web Drive Guard Flap (Rubber)	1	
10	11158	Main Web Drive Guard Flap Clamp Strip	1	
11 12	11159 11160	Bearing Housing Cover Guard Discharge Elevator Drive 'V' Belt	1	
13	11161	Guard Discharge Elevator Drive 'V' Belt Back Plate	RF	(Page 22)
14	11162	Discharge Elevator Top Guard Front	1	
15	11163	Discharge Elevator Top Guard Rear	1	
16	11168	Discharge Elevator Drive Chain Guard Back Plate	1	
17	11169	Discharge Elevator Drive Chain Guard Gearbox Coupling Guard Tube	1 1	·
18 19	111/2	Trash Extractor Web Shaft End Guard	1	
20	11296	Drive Guard	1 1	(David OA)
21	11310	Guard Bolt	RF 1	(Page 24)
22	11321	Top Track Drive Chain Guard Top Track Drive Chain Guard Cove		
23 24	11322 11332	Guard Tube	1	
25	BM 196	Rubber Guard	2	
26	GS 407	Jubilee Clip	2	
27	RP 38	Top Track Canopy Hinge	3	· ·
28	RH 176	Coupling Guard	1 1	
29	SPCL 154/M		1 1	·
30	TBM 24M	Guard Bolt	2	
31 32	TBMW 40M TRH 203	Guard Bolt Intermediate Drive Shaft Guard Tube	1	Turbobeet only
	11343	Intermediate Drive Shaft Guard Tube	1.	TRH Mk, 2 only
33	PH 608M	Guard Bolt	2	
34 35	17006 TBMW 221	Catch Guard	1	~
36 37		M6 x 12mm Hex Hd Bolt	8	
38		M6 x 25mm Hex Hd Bolt	4	
39		M6 Plain Washer M6 Spring Washer	12	
40 41 42		M6 Nut	12	
43		M10 x 25mm Hex Hd Bolt	7	
45		M10 x 30mm Hex Hd Bolt	2	
46	ı	M10 x 35mm Hex Hd Bolt	6	
47	1	M10 Plain Washer	6	
48		M10 Spring Washer	15	
49	1	M10 Nut	15	
50	1		1	
51 52	1	M12 Plain Washer	11	
53		M12 Spring Washer	18	
54		M12 Nut	7	
55		M12 Wingnut	11	
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Guards From Serial No. 134 07,69,69,70 86986 36,67,68,69,70 82,52 8882 က တ 2889 288 588985 58893 72 E 8 **2** 57 55 \$ \$ 200 1,61,63,64 \$ 828

Turbobeet

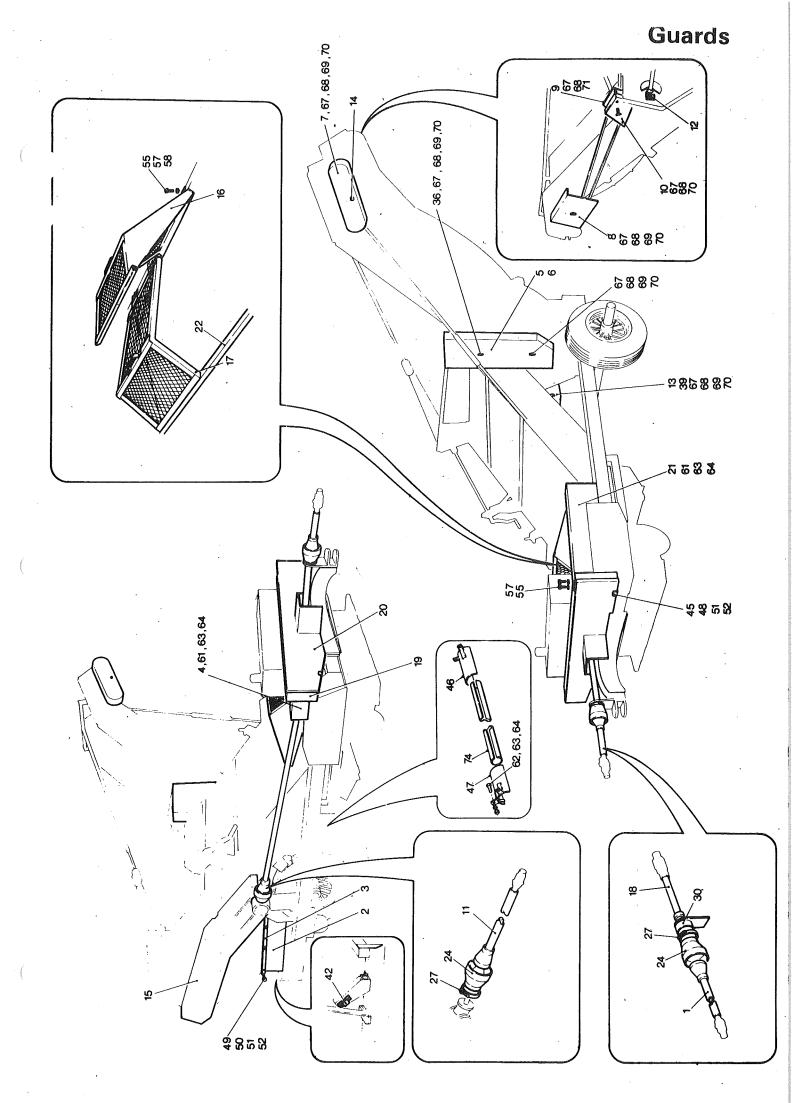
Page 30

			000	
Item No	Part No.	Description	Qty per Assy	Remarks
1 2	11078 11157	PTO Coupling Drive Shaft Main Web Drive Guard Flap	1	
3	11158	(Rubber) Main Web Drive Guard Flap Clamp Strip	1 .	
4 5	11159 11160	Bearing Housing Cover Guard Discharge Elevator Drive 'V' Belt	1	
6	11161	Guard Discharge Elevator Drive 'V' Belt	1	D
7	11162	Back Plate Discharge Elevator Top Guard Front	Ref 1	Page 22
8	11163	Discharge Elevator Top Guard Front	1	
9	11168	Discharge Elevator Drive Chain Guard Back Plate	1	
10	11169	Discharge Elevator Drive Chain Guard	1	·
11 12	11172 11268	Gearbox Coupling Guard Tube Trash Extractor Web Shaft End Guard	1	
13	11296	Drive Guard	1	
14	11310	Guard Bolt	Ref	Page 24
15	11360	Trash Extractor Drive Chain Guard	1	, ugo E-1
16	11381	Cage Wheel Guard Cover LH	i	İ
17	11382	Cage Wheel Guard Cover RH	1	
18	11415	Plastic Guard Tube	1	Replaced by 11559 from March 1981
19	11417	Main Drive Guard	1	
20	11418	Main Drive Guard Cover	1	
21 22	11545 11152	Cage Wheel Drive Chain Guard Canopy Support	1 1	TRH Mk. II only, Turbobeet 11556
23 24 25	BM 196	Rubber Guard	2	
26 27 28	GS 407	Jubilee Clip	2	·
29 30 31	RH 176	Coupling Guard	1	
32 33 34	SPCL 154/M	Guard Bolt	1	
35 36 37	TBM 24M	Guard Bolt	1	
38 39 40	TBMW 40M	Guard Bolt	2	
41 42 43	ТВМW 221	Guard	1	
44 45 46	17006	Catch	4	
47				
		·		

Guards

Guard	18			
Item No	Part No.	Description	Qty per Assy	Remarks
48 49 50 51 52 53		M6 x 12mm Hx Hd Bolt M6 x 25mm Hex Hd Bolt M6 Plain Washer M6 Spring Washer M6 Nut	4 3 3 7 7	
54 55 56 57 58 59		M8 x 20mm Hex Hd Bolt M8 x 25mm Hex Hd Bolt M8 Spring Washer M8 Nut	2 8 10 8	
60 61 62 63 64 65 66		M10 x 25mm Hex Hd Bolt M10 x 30mm Hx Hd Bolt M10 Spring Washer M10 Nut	3 2 5 5	
67 68 69 70 71 72 73		M12 Plain Washer M12 Spring Washer M12 Nut M12 Wing Nut	9 16 5 9	
				·



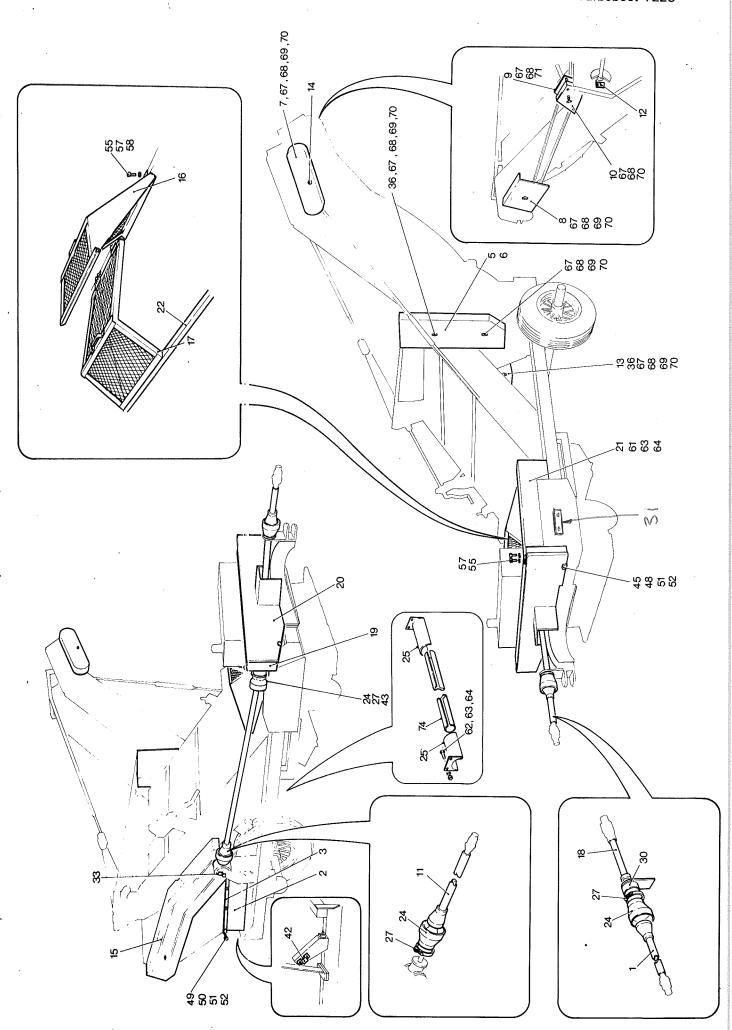


Suard:			Qty	
Item No	Part No.	Description	per Assy	Remarks
1 2	11078 11157	PTO Coupling Drive Shaft Main Web Drive Guard Flap (Rubber)	1	
3	11158	Main Web Drive Guard Flap Clamp Strip	1	
4 5	11159 11160	Bearing Housing Cover Guard Discharge Elevator Drive 'V' Belt Guard	1	
6	11161	Discharge Elevator Drive 'V' Belt Back Plate	Ref	Page 22
7	11162	Discharge Elevator Top Guard Front	1 1	
8 9	11163 11774	Discharge Elevator Top Guard Rear Discharge Elevator Drive Chain		
10	11774	Guard Back Plate Discharge Elevator Drive Chain	1	
11 12	11172 11268	Guard Gearbox Coupling Guard Tube Trash Extractor Web Shaft End	1	
13	11296	Guard Drive Guard	1 1	
14	11310	Guard Bolt	Ref	Page 24
15	11360	Trash Extractor Drive Chain Guard	1	
16	11381	Cage Wheel Guard Cover LH	1 1	
17	11382	Cage Wheel Guard Cover RH	1	Replaced by 11559 from March 1981
18	11415	Plastic Guard Tube	1 1	Replaced by 11335 Holli Walter 1301
19 20	11417 11418	Main Drive Guard Main Drive Guard Cover	1	
21	11545	Cage Wheel Drive Chain Guard	li	TRH Mk, II only, Turbobeet 11556
22	11152	Canopy Support	1 1	
23	19091	Guard Bolt	1	
24 25	BM 196	Rubber Guard	2	
26 27 28	GS 407	Jubilee Clip	2	
29 30 31 32	RH 176	Coupling Guard	1	
33 34 35 36 37 38 39	TBM 24M	Guard Bolt	3	
40 '41 42 43	TBMW 221	Guard	1	
44 45 46 47	17006 11438 11439	Catch LH Knuckle Guard RH Knuckle Guard	4 1 1	
	.	1		

Guards

Guar	ds			
Item No	Part No.	Description	Qty per Assy	Remarks
48 49 50 51 52 53		M6 x 12mm Hx Hd Bolt M6 x 25mm Hex Hd Bolt M6 Plain Washer M6 Spring Washer M6 Nut	4 3 3 7 7	
54 55 56 57 58 59		M8 x 20mm Hex Hd Bolt M8 x 25mm Hex Hd Bolt M8 Spring Washer M8 Nut	2 8 10 8	
60 61 62 63 64 65 66		M10 x 25mm Hex Hd Bolt M10 x 40mm Hx Hd Bolt M10 Spring Washer M10 Nut	3 2 5 5	
67 68 69 70 71 72		M12 Plain Washer M12 Spring Washer M12 Nut M12 Wing Nut M12 x 30mm Hex Hd Setscrew	12 19 5 10 2	
73 74	11445	Guard Tube	1	
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Turbobeet

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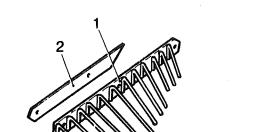
Item No	Part No.	Description	Qty per Assy	Remarks
1	13019	PTO Coupling Drive Shaft	1	Part No. was 11078 Prior to March 1981 Part No. was 11557 Prior to serial No. TRH MK2 Y1544 - Turbobeet Y228
2 3 4	11157 11158	Main Web Drive Guard Flap (Rubber) Main Web Drive Guard Flap Clamp Strip	1	
5 6	11160 11161	Discharge Elevator Drive 'V' Belt Guard Discharge Elevator Drive 'V' Belt Back Plate	1 Ref	Page 22
7 8 9	11162 11163 11774	Discharge Elevator Top Guard Front Discharge Elevator Top Guard Rear Discharge Elevator Drive Chain Guard Back Plate	1 1	
10	11775	Discharge Elevator Drive Chain Guard	1	
11 12	11844/5 11268	Gearbox Coupling Guard Tube Trash Extractor Web Shaft End Guard	1	Part No. was 11172 Prior to serial No. TRH MK2 Y1544 - Turbobeet Y228
13 14 15	11296 11310 11360	Drive Guard Guard Bolt Trash Extractor Drive Chain Guard	1 Ref 1	Page 24
16 17 18	11381 11382 ,, 11415	Cage Wheel Guard Cover LH Cage Wheel Guard Cover RH Plastic Guard Tube Main Drive Guard	1 1 1	Replaced by 11559 from March 1981
19 20 21 22	11417 11418 11545 11152	Main Drive Guard Cover Cage Wheel Drive Chain Guard Canopy Support	1 1 1	TRH MK2 Only Turbobeet 11556
23 24 25	19091 BM 196 11852	Guard Bolt Rubber Guard Knuckle Guard	1 3 2	
26 27 28 29	GS 407	Jubilee Clip	3	
30	11834	Coupling Guard	1	Part No. was RH 176 Prior to serial No. TRH MK2 Y1544 - Turbobeet Y228
31 32 33	11862 PH 337	SHAFT END GUARD Shaft Guard	1	
34 35 36 37 38 39	TBM 24M	Guard Bolt	3	
40 41 42 43 44	TBMW 221 TBMW 466	Bracket	1	
45 46 47	17006	Catch	4	
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Item No	Part No.	Description	Qty per Assy	Remarks
48 49 50 51 52 53		M6 x 12mm Hx Hd Bolt M6 x 25mm Hex Hd Bolt M6 Plain Washer M6 Spring Washer M6 Nut	4 3 3 7 7	
55 56 57 58 59		M8 x 20mm Hex Hd Bolt M8 x 25mm Hex Hd Bolt M8 Spring Washer M8 Nut	2 8 10 8	
60 61 62 63 64 65		M10 x 25mm Hex Hd Bolt . M:10 x 40mm Hx Hd Bolt M10 Spring Washer M10 Nut	3 2 5 5	
66 67 68 69 70 71		M12 Plain Washer M12 Spring Washer M12 Nut M12 Wing Nut M12 x 30mm Hex Hd Setscrew	12 19 5 10 2	·
73 74	11445	Guard Tube	1	·
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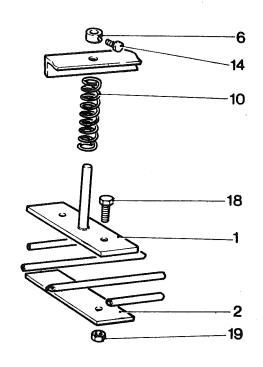


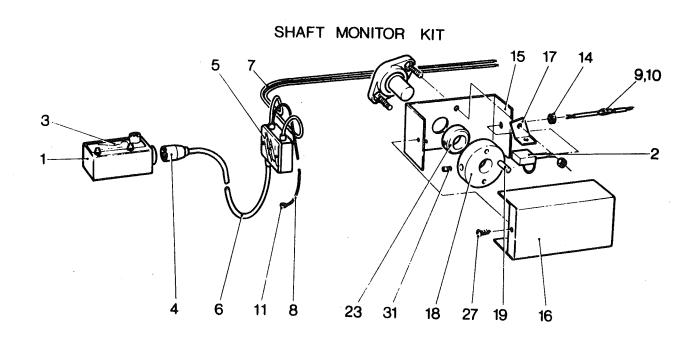
Optional Extra's From serial Nº W 134.

REAR BEET GRILLE



CLEANER WEB PRESSURE PLATES

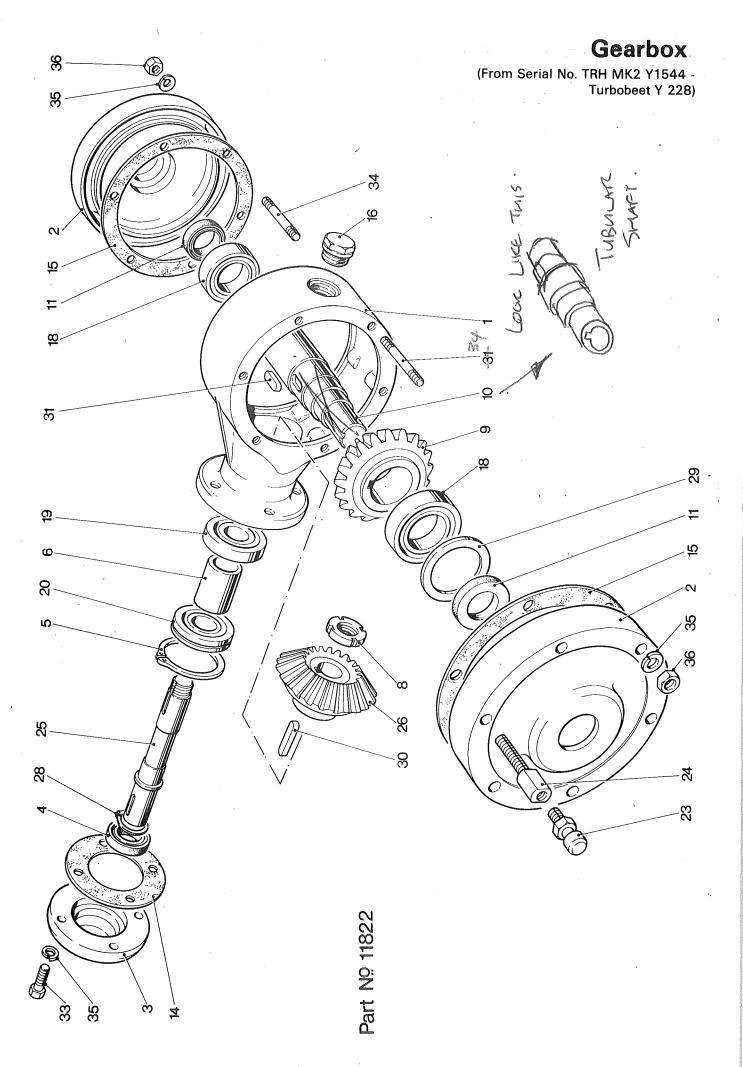




tem No	Part No.	Description	Oty per Assy	Remarks
9	11475	REAR BEET GRILLE Beet Grille	1	
2	11507	Strengthening Plate	i	
		CLEANER WEB PRESSURE PLATES		
1 2	11476 11476/1	Pressure Plate Pressure Plate	2 2	·
3 4	11370/1			
5 6 7	H 210	Collar	2	
8 9 10	PS 165	Spring	2	
11 12	13 103	Spring	-	
13 14 15		M10 x 20mm Hex Hd Setscrew	2	
16 17 18		M12 x 35mm Hex-Hd Bolt	4	
19		M12 Locknut	4	
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No	Shaft	Monitor Ki	t Optional Extras Continu	90	
11360	Item No	Part No.	Description	per	
11360	1	11349	Monitor Box	1	·
11366		11350		2	
11367 7-pin Plug		11366	Monitor Box Transfer		
11368		11367		1	
11369		11368		1	l i
11370		11369			
11371 Single Core Cable 9 11391 Auto Bullet Crimp Connector Male 4rnm		11370		l	
9 11391		11371	Single Core Cable		
Male 4mm 4 11 11393 11394 12 11396 13 11397 14 11400 15 11560 16 11561 17 11561 18 11583 19 11583 19 11584 22 22 23 PS 326M Stop Collar 26 28 27 28 30 30 31 31 30 31 31 31 31 31 31 31 31 31 31 31 31 31		11391	Auto Bullet Crimp Connector	l	
11392	ľ	11001		1 4	
Fernale Arm 11 11393 11396 12 11396 13 11397 14 11460 15 11560 16 11561 17 11581 18 11583 19 11583 19 11584 Magnet Self Tapping Screw M10 x 10mm Hex Soc Hd Setscrew M10 x 10mm Hex Soc Hd Setscrew M10 x 10mm Hex Soc Hd Setscrew M10 x 10mm Hex Soc Hd Setscrew M10 x 10mm Hex Soc Hd Setscrew M10 x 10mm Hex Soc Hd Setscrew M10 x 10mm Hex Soc Hd Setscrew M10 x 10mm Hex Soc Hd Setscrew M10 x 10mm Hex Soc Hd Setscrew M10 x 10mm Hex Soc Hd Setscrew M10 x 10mm Hex Soc Hd Setscrew M10 x 10mm Hex Soc Hd Setscrew M10 x 10mm Hex Soc Hd Setscrew M10 x 10mm Hex Soc Hd Setscrew M10 x 10mm Hex Soc Hd Setscrew M10 x 10mm Hex Soc Hd Setscrew M10 x 10mm Hex Soc Hd Setscrew M10 x 10mm Hex Soc Hd Setscrew M10 x 10mm Hex Soc Hd Setscrew	10	11392		1	
11 11396 Crimp Connector Ring 6mm 1 Cable Clip Cable Cl	'0	11002		Ι Δ	
1396 Cable Clip Cable Cli	11	11202			
1387 Cable Clip		11393	Cable Clip	l '	
11480		11380	Coble Clip		
11560 11561 11561 11561 11561 11581 11583 11584 1158		11397		1 2	1
16 11561 11581 11583 11583 11584		11460		1 2	
18 11583 Nylon Reaction Collar 2 4 20 20 21 22 23 25 26 27 28 29 30 31 31 34 35 36 37 38 39 40 41 42 42 42 42 42 42 42				1 2	
18 11583 Nylon Reaction Collar 2 4 20 20 21 22 23 25 26 27 28 29 30 31 31 34 35 36 37 38 39 40 41 42 42 42 42 42 42 42		11561		2	1
19 11584 Magnet 4 20 21 22 22 23 PS 326M Stop Collar 2 24 25 26 27 28 29 30 31 31 32 33 34 34 35 36 36 36 36 36 36 36 36 36 36 39 40 41 42				2	
20		11583	Nylon Reaction Collar		
21		11584	Magnet	4	
223	20		<u></u>	ŀ	
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23			l	1	
24 Self Tapping Screw	23	PS 326M	Stop Collar	2	
256 27 28 29 30 31 31 32 33 34 35 36 37 38 39 40 41 42			i '	1	
26 Self Tapping Screw				1	
28				1	
28	27		Self Tapping Screw	4	
29 M10 x 10mm Hex Soc Hd Setscrew 2 3 3 3 4 3 5 3 6 3 7 3 7 3 8 3 9 4 40 41 42 42	28		San Tapping So. st.	'	
30				l	
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32 33 34 35 36 37 38 39 40 41 42 42			M10 10 Hay Co - Hd Cot	١,	
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item No	Part No.	Description	Qty per Assy	Remarks
1 2 3 4 5	PS200/2M PS201/2M 11824 14835 H84	Gearbox Housing Gearbox Side Plates Tail Shaft End Plate Tail Shaft Oil Seal Circlip Spacer	1 2 1 1 1	(Part of item 20)
7 8 9 10 11	PS240/1 PS242 PS243M PS245	Lock Nut Bevel Gear Tubular Output Shaft Output Oil Seal	1 1 1 2	
13 14 15 16 17ç	PS269A PS470A PS869	End Plate Gasket Side Plate Gasket Drain/Filer Plug	1 2 1	
18 19 . 20 21	145 6207 6207NR	Output Shaft Bearing Tail Shaft Bearing Tail Shaft Bearing	2 1 1	(Complete with Circlip)
22 23 24 25 26 27	11066 11069 11823 11278	Gearbox Breather Gearbox Breather Plug Input Shaft Bevel Pinion	1 1 1	
28 29 30 31 32		Tail Shaft Circlip Side Plate Shim RBE Key ¼" x ¼" x 1¼" LG RBE Key 8mm x 7mm x 32mm	1 AR 1 1	5/16× 13/4 in Res.
33 34 35 36		M10 x 30 Hex Hd Bolt M10 x 50 Stud M10 Spring Washer M10 Nut	_4 11 15 11	
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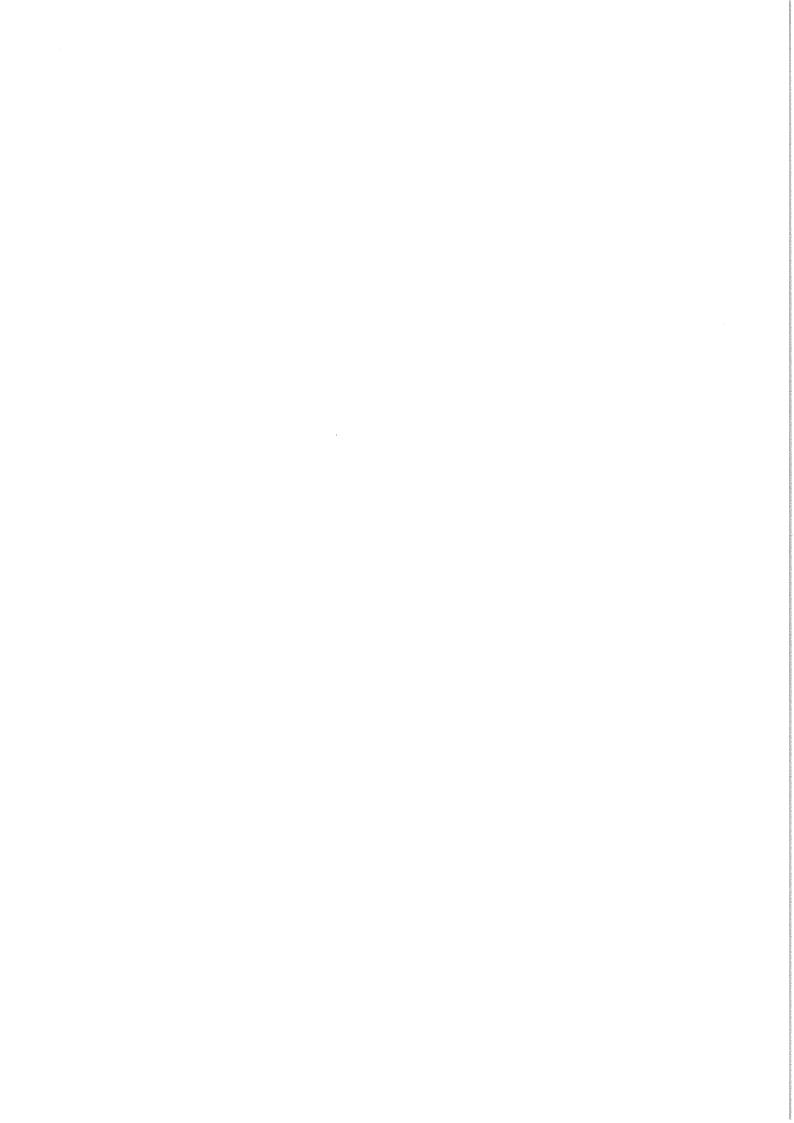
TURBO 3 SCALPERS & FEELER WHEEL TOPPING UNIT 'A' FRAME & DISCS

Parts Catalogue & Instruction Manual

Standen Engineering Limited Hereward Works Station Road, Ely CB7 4BP Cambridgeshire, England

Telephone: Ely 61111 Cables: Hereward, Ely

Telex: 81486

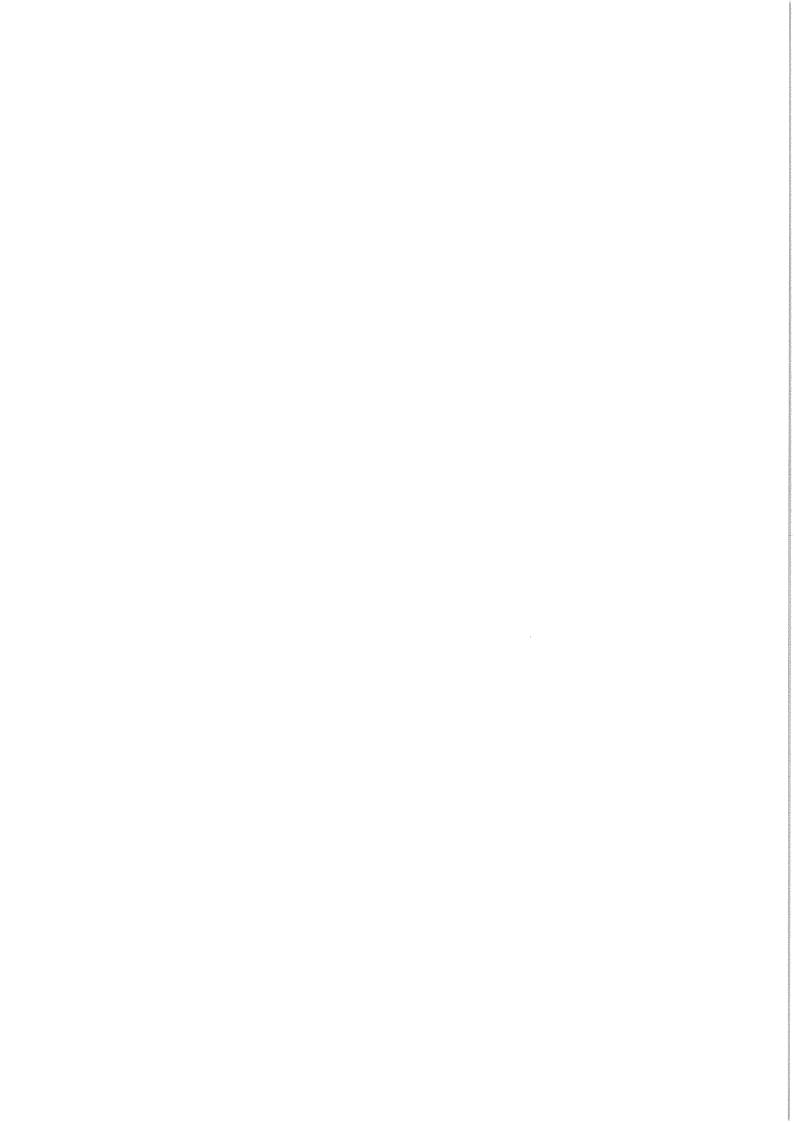


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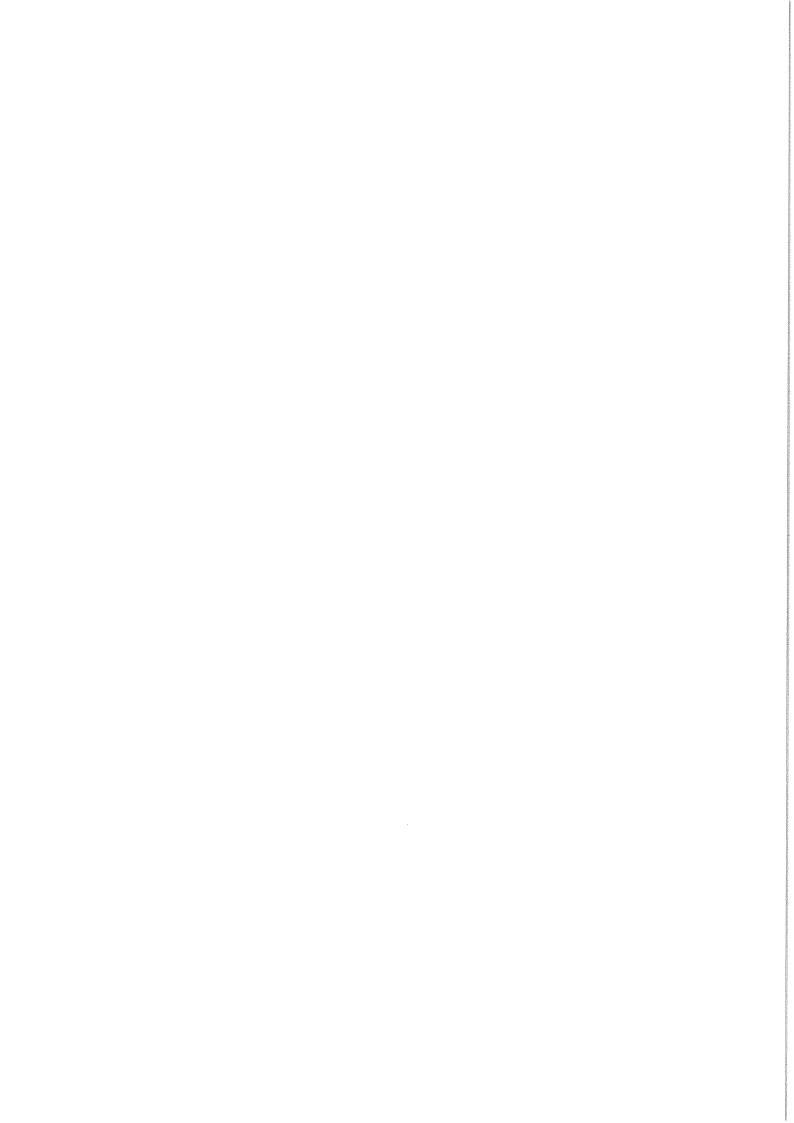
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eeler Wheel Topping Unit	2.7
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SECTION 1

INSTRUCTION MANUAL



Introduction

This manual provides the information for the adjustments and maintenance to help you to obtain the best results from your new Standen Turbo-Topper. Before putting the machine to work, read the manual through carefully to get a full understanding of what the machine should do and how to achieve it.

The instructions describe the operation of the various components, then the different settings supplied to those components enabling maximum efficiency to be obtained from the machine, adjustments may have to be made singly or in combination according to crop and soil conditions, allow the machine to settle to a new setting before making more adjustments.

Any reference made to right hand or left hand applies to the machine viewed from the back.

The serial number is stamped on the front left hand side of the top plate. Always quote the serial number when ordering spare parts.

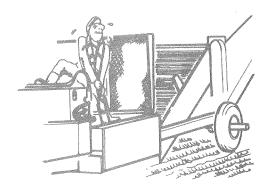
Record below details of your machine in the space provided.

Date Purchased	 												
Date Started Work													
Serial Number							•						•
Agents Name				,									
Agents Address													
• •													
Agents Tel. No													

Safety Precautions

NEVER

Operate the machine with any of the safety guards removed, remember they are fitted for two reasons — to keep dirt out, and more important to protect you and others from the various working parts. So, make sure they are always kept in good condition and they are fitted correctly when the machine is in work.



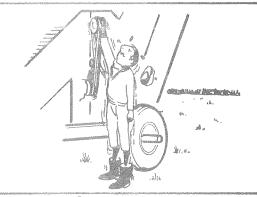
NEVER

Attempt to adjust or clean any part of the machine with the tractor power take-off in motion and always stop the tractor engine.



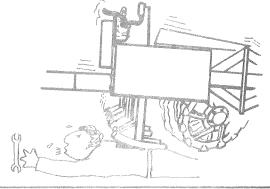
NEVER

Fit drive chains or drive belts while the drive sprockets or drive pulleys are in motion.



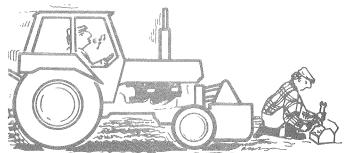
NEVER

Work under the machine when it is in a raised position on the tractor hydraulic lift linkage.



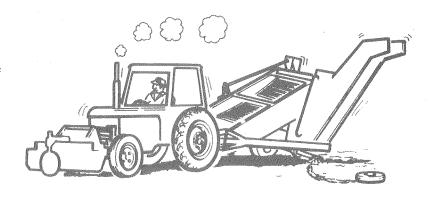
NEVER

Set the machinery in motion before ensuring that every one in the vicinity is aware of your intention.



NEVER

Operate the machine in a state of disrepair.



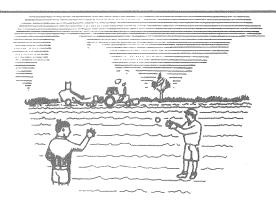
NEVER

Allow any one *especially children* to ride on the machine.



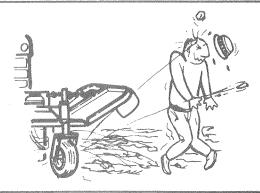
NEVER

Allow children to be in the vicinity where machines are working.



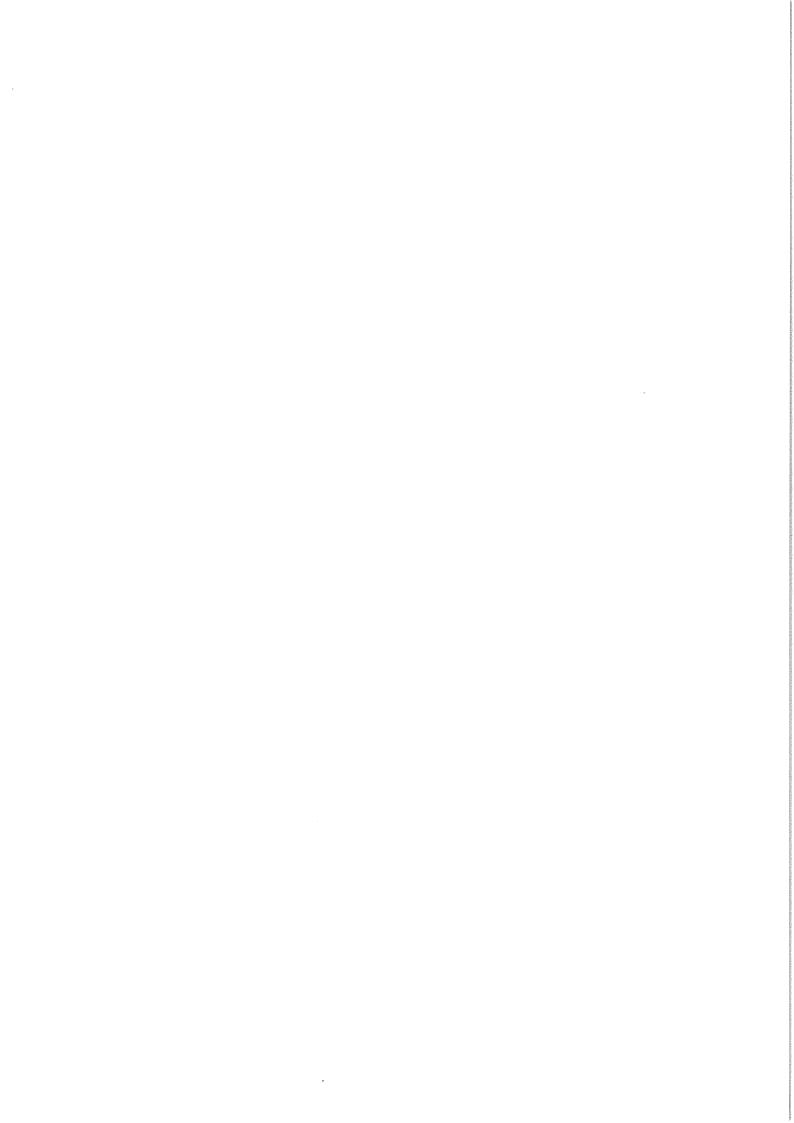
NEVER

Stand near the discharge end of the topper while machine is running.



The above list of precautions is not exhaustive. All machinery is potentially dangerous and great care must be exercised by the operator(s) at all times.

Standen Engineering Limited will not accept liability for damage or injury caused by their products except when such liability is specifically imposed by English Statute.



INSTALLATION

The Standen Turbo-Beet is designed to remove the leaf from the beet by the use of rotating cutters prior to the beet being topped by the scalpers.

Three rotary cutters are used and the loose leaf is thrown from one cutter to the other and finally out to the side. The surplus sugar beet crown is then removed by the scalpers, leaving a clean path of topped sugar beet for the lifter loader.

The tractor power required is a minimum of 75 HP with 540 revs from the P.T.O., three point linkage and a double spool valve.

Check that the nuts and bolts and keys are tight, also the grub screws in the bearings, especially when starting off a new machine and during the first day or two of work.

Do not reverse the machine or turn at the end of a row unless the machine is in a raised position.

Pay particular attention to the safety precautions, symbolized in the setting instructions.

TRACTOR WHEEL SETTING

Both front and rear tractor wheels must be set to straddle the rows of beet. For example, if the crop is growing at 20" (50.80 cms) the distance measured between the tractor tyre centres must be 60" (152.40 cms), this will then ensure that the wheels run in centre line between the rows of beet. The instructions for adjusting tractor wheels are given in the tractor manufacturer's handbook.

SAFETY FIRST

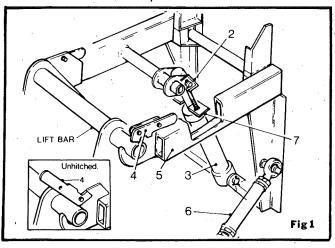


When carrying out wheel adjustments take care to place the jack on firm ground under a solid part of the tractor. Before removing the wheel place stout support under the tractor frame in case the jack should become dislodged.

FITTING

The Turbo-Topper is mounted to the front of the tractor supported by mounting brackets fitted to the tractor. It is fully floating on pivoting linkage, and raised and lowered by a hydraulic ram (Item 3 fig 1), the ram being fed and operated by hydraulic hose from the tractor external control lever.

There are various types of tractor mounting brackets available to suit individual tractors and they should be fitted by bolting to the existing holes in the tractor chassis with the bolts provided in the kit.



With the tractor mounting brackets and the mounting frame assembly (Item 1 fig.1) in position on the tractor and with the hydraulic ram (Item 3 fig.1) connected to the tractor external hydraulics, the quick hitch system can be used.

TO PICK UP THE TOPPER

- 1. Lift the ram stop (Item 2 fig.1) clear of the hydraulic ram (Item 3 fig.1).
- 2. Drive the tractor forward and locate the hooks on the lift arms (Item 5 fig.1) around the lift bar on the topper. Ensure that the lift bar is fully located in the hooks before any attempt is made to lift the topper.
- 3. Lift the topper by actuating the hydraulic ram (Item 3 fig.1). Ensure that the latch (Item 4 fig.1) has positioned itself over the topper lift bar as shown in fig 1.
- 4. Fit the stabilizer links (Item 6 fig.1) between the mounting frame (Item 1 fig.1) and the topper. Then the topper is in work the front should be lower than the rear, to acheive this turn the stabilizer clockwise or anti-clockwise.
- 5. Couple the hydraulic motor to the hydraulic system of the harvester via the diverter valve (for adjustments on the diverter valve see Drives).
- 6. If the topper is fitted with a Sceptre the automatic lubrication will have to be coupled to the harvester lubrication system.

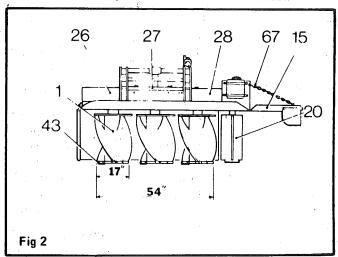
TO UNHITCH THE TOPPER

- Disconnect the hydraulic motor from the diverter valve.
- 2. Remove the stabilizer links (Item 6 fig.1).
- 3. Position the latch (Item 4 fig.1) as shown in fig. 1.
- 4. Lower the topper to the ground, when the topper has touched the ground continue to lower the lift arms (Item 5 fig.1) and slowly reverse the tractor until the topper is free of the lift arms.

TURBO-TOPPER

The Turbo-Topper is a unit designed to cut the leaf from the beet by means of the rotating cutters (Item 1 fig 2) prior to the beet being topped by the scalpers.

The tops are transferred from one rotor to the other and then out of the side by means of the rotating speed of the rotors (Item 1 fig 2). The suction of the spiral fins welded round the rotors (Item 1 fig 2) lifts any loose leaf and trash, leaving a clean path for the lifter, note, that a fourth rotor (Item 20 fig 2) is fitted to the unit, it's purpose is to throw the beet tops clear of the tractor wheel.

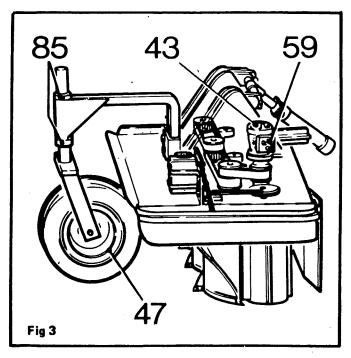


The cutting width of each individual rotor (Item 1 fig 2) is 17 inches (43 cms), the overall cutting width of all three rotors is 54 inches (137.16 cms).

Row widths of from 18 inches (48 cms) to 21 inches (56 cms) can be obtained.

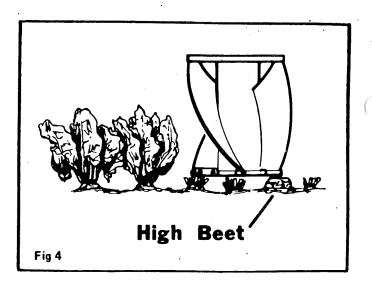
The amount of tops removed from the beet by the rotors is determined by the size of the crown that can be removed by the scalpers. As a guide to the amount of top to remove, prior to scalping set the depth of cut of the rotors knives (Item 5 fig.2) to just top the highest beet (fig.4). The depth of cut is determined by the depth wheel (Item 47 fig.3) fitted at the front of the unit. To adjust the depth wheel (Item 47 fig.3) loosen the two retaining screws in the depth wheel stop clamps (Item 85 fig.3) and lift or lower the wheel according to the amount of topping required. Stop brackets (Item 2 fig. 1) fitted to the hydraulic ram (Item 3 fig.1), its purpose is to reduce the amount of float should the depth wheel (Item 47 fig.3) sink into the ground when travelling over undulating ground or soft soil patches.

To adjust the stop bracket (Item 2 fig.1), the position of the stop plate (Item 7 fig.1) must be altered in relationship to the hydraulic ram (Item 3 fig.1). The size of the gap between the stop plate (Item 7 fig.1) and the hydraulic ram determines the depth at which the topper is allowed to drop.



Steel knives (Item 5 fig 2) are fitted to the rotors (Item 1 fig 2) and can be removed or replaced by removing the retaining patch bolts (Item 43 Fig 2). When fitting or removing patch holts care should be taken not to overheat the nylon locking material fitted to the bolt. Always replace the bolts with new after they have been removed or fitted twice. Never set the topper so that the knives (Item 5 Fig 2) touch the soil as damage to the knives (Item 5 Fig 2) will ensure.

The sugar beet tops discharge end of the topper is fitted with a hinged tops deflector flap (Item 15 Fig 2) which can be adjusted to a high or low position, according to the amount of beet tops, to form a windrow or to spread the tops, adjustment is made by lengthening or shortening the support chain (Item 67 Fig 2).



DRIVES

The rotors (Item 1-20 fig 2) are driven by an hydraulic motor (Item 43 fig 3) being fed from a 12 G.P.M. pump mounted on the front of the harvester and driven from the harvester PTO shaft via the 3 to 1 gear box. The oil to the hydraulic pump is supplied from an oil tank mounted on the harvester. The tank should be filled with HI 32 Nutro Hydraulic Oil or equivalent and should always be kept full specially when storing the machine for long periods of time.

1468 NUTO

The replacement filter situated at the top of the tank should be renewed at the completion of the first 100 hours of work and then at every 500 hours.

Situated at the left hand corner of the tractor mounting bracket is a diverter valve (Item 1 Fig 5) designed to cut off the flow of oil to the rotors (Items 1 Fig 2) when the machine is in the raised position, so stopping the rotors (Item 1 Fig 2) from turning.

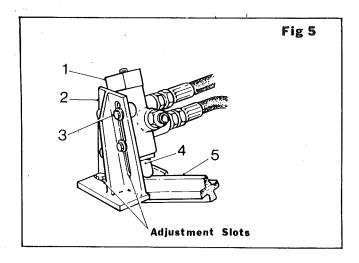
The diverter valve (Item 1 Fig 5) must be fitted or adjusted with the Topper in the raised position and the valve must be closed. Adjusting slots are provided in the diverter valve support bracket (Item 2 Fig 5).

To adjust loosen the cap screws (Item 3 Fig 5) securing the valve and slide the valve until the spool (Item 4 Fig 5) touches centrally on the lift arm (Item 5 Fig 5). If additional adjustment is required to the diverter valve a spacer block supplied with the machine should be fitted.

At the top of the diverter valve (Item 1 Fig 5) is a return spring fitted to push down on the top of the spool (Item 4 Fig 5) when the machine is lowered.

The spring is encased for cleanliness and does not require adjusting.

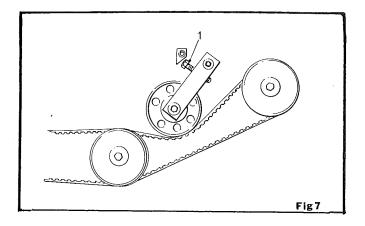
The pressure relief valve is situated at the rear of the diverter valve (Item 1 Fig 5) is fitted to protect the hydraulic system should any blocking occur and is preset at a pressure of 2000 P.S.I.



The aluminium check valve (Item 59 Fig 3) enables the rotors (Item 1 Fig 2) to slow down when the oil supply is shut off. The motor (Item 43 Fig 3) must be always connected to the oil supply via the check valve (Item 59 Fig 3). Failure to do so will cause severe damage to the motor.

From the hydraulic motor (Item 43 fig.3) the drive is by toothed belts to the individual pulleys which in turn drive the topper rotors (Item 1). To remove the drive guard, remove the securing bolts and slide the guard out of the RH side of the topper. These drives are situated beneath the guards.

To adjust the tension of the drive belts, turn the belt tensioner adjuster screw (Item 1 fig.7) clockwise or anti-clockwise until the correct tension is acheived. The correct adjustment should allow 5mm to 7mm of movement of the belts at a point midway between the drive pulleys. After all the necessary adjustments have been made it is essential that the guards are securely replaced to avoid loose tops and trash blocking the pulley teeth and causing damage to the belts. Never allow the belts to run slack as this will result in severe damage and their subsequent failure.



AUTOMATIC LUBRICATION (FOR TURBOBEET)

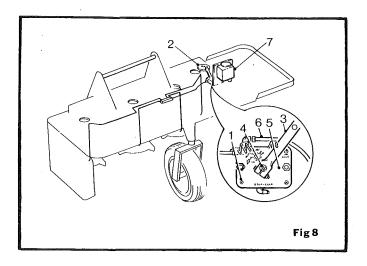
Automatic lubrication if fitted to feed 4 bearings fed by the lubrication pump (Item 1 fig.8). A reaction wheel (Item 2 fig.8) is fitted eccentric to the operating arm (Item 3 fig.8) giving a pressure of 200lbs P.S.I. The stroke of the operating arm (Item 3 fig.8) can be adjusted by loosening the clamp of the operating arm (Item 3 fig.8) and turning the slotted spindle (Item 4 fig.8) with a screwdriver. If more lubrication is required turn the slotted spindle (Item 4 fig.8) towards the + position stamped on the pump top plate (Item 5 fig.8) and whilst holding this position with a screwdriver tighten the clamp bolt on the operating arm (Item 3 fig.8). When carrying out this operation ensure that the reaction wheel (Item 2 fig.8) is at its' furthest stroke.

PRIMING THE SYSTEM

The system is self priming with the feed pipe (Item 6 fig.8) being fitted from the top of the pump (Item 1 fig.8) to the bottom of the oil reservoir (Item 7 fig.8) and through to the top of the oil inside the reservoir (Item 7 fig.8). When filling the system with oil for the first time or in case the system has been allowed to become empty, the system must be primed, to prime the system, operate the operating arm (Item 3 fig.8) manually until the oil is discharged from the bearing feeds. Top up the oil reservoir with oil as required. The oil reservoir is made of see-through plastic and should be filled with SAE 90 gear oil.

AUTOMATIC LUBRICATION (FOR SCEPTRE)

Automatic lubrication if fitted to feed 4 bearings by the lubrication pump which is located on the harvester. For adjustment and operation see the Sceptre Instruction Manual.



DEPTH WHEEL LUBRICATION

Two grease points are fitted to lubricate the depth wheel leg and the wheel axle shaft and should be greased with general purpose grease at least once every day.

SCALPERS

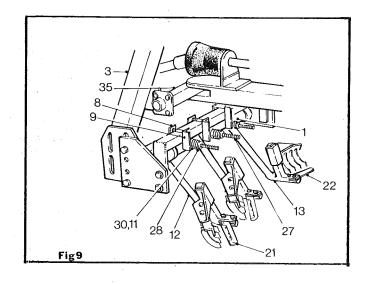
The scalper unit is fitted to the rear of the tractor between the tractor and the lifter-loader, it is designed to crown the beet and remove the surplus leaf stubble left remaining on the beet by the Turbo-Topper. The unit is attached to the tractor by fitting the 'A'-Frame (Item 3 Fig 9) to the tractor three points lift linkage, to the 'A'-Frame (Item 3 Fig 9) is fitted the scalper support bar (Item 1 Fig 9) and the drawbar (Item 35 Fig 9) supplied for towing the lifter-loader. Before attempting to set up the scalpers drive the machine a short distance down the rows of beet to obtain the required depth of the lifting wheels of the harvester which will in turn determine the pitch of the scalpers (Items 12-13 Fig 9). The amount of beet crown removed by the knife (Items 21-22 Fig 9) if determined by adjusting the comb (Items 18-19 Fig 9) above the knife (Items 21-22 Fig 9), increasing the distance between the two will remove more beet crown and decreasing the distance will remove less beet crown.

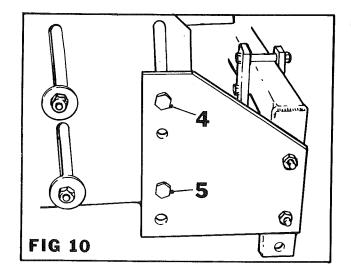
A very important part of the scalping mechanism is the tension of the springs (Item 11-30 Fig 9) fitted to the tension rods (Item 27 Fig 9) designed to give a downward pressure to the knife (Item 21-22 Fig 9). Enough pressure should be given to return the scalper arm (Items 12-23 Fig 9) and knife (Item 21-22 Fig 9) to successfully top a low beet after topping a high beet, (Fig 9) at the same time, too much pressure will force the knife (Item 21-22 Fig 9) to dig into the highest beet causing too much beet crown to be removed or the beet to be pushed over.

To adjust the spring (Items 11-30 Fig 9) either tighten up or loosen the nut (Item 28 Fig 9) until the right amount of pressure is aquired.

Each scalper arm (Item 12-13 fig.9) is independently pivoted on the scalper support bar (Item 1 fig.9) and by sliding the scalper arm (Item 12-13 fig.9) along the scalper support bar (Item 1 fig.9) adjustments can be obtained to suit row widths of between 18 inches (48cm) to 21 inches (53 cm). To adjust for row widths, loosen the collars fitted to each side of the scalper arm (Items 12-13 fig.9) and the nuts and bolts in the spring clamplate (Item 8-9 fig.9), remove the two outside units to the required row setting ensuring that the knife (Items 21-22 fig.9) is crowning the beet as close to the scalper arm (Items 12-13 fig.9) as possible so that the scalper arm (Items 12-13 fig.9) just misses the side of the widest beet. Height adjustment is also provided for the scalper arms depending on the working depth of the harvester.

To adjust the height loosen the nuts and bolts (Items 4-5 Fig 10) and move the mounting plates up or down according to the height required. If more adjustment is required remove the nuts and bolts (Items 4-5 Fig 10) from the upper holes in the mounting plates and place them in the lower set of holes and re-assemble in the slots in the 'A' frame (Item 3 Fig 9) and tighten when the height is correctly set.





FEELER WHEEL TOPPING UNIT

The purpose of the Topping Unit is to crown the beet cleanly and squarely by the use of a Feeler Wheel which runs on top of the beet holding it steady while the knife crowns it. The Feeler Wheels (Item 1 Fig 11) should be well onto the beet when the knives start to cut. Allowance is provided to adjust the depth of the knives (Item 2 Fig 11) by loosening the two locking nuts (Item 3 Fig 11) on the adjusting bolts (Item 4 Fig 11) and turning the bolts (Item 4 Fig 11) to the stop plates welded to the knife arm (Item 5 Fig 11). This adjustment allows the topping knives (Item 2 Fig 11) to be moved towards or away from the feeler wheels (Item 1 Fig 11) which are then held firmly in position by their tension spring (Item 6 Fig 11). The tension of the spring (Item 6 Fig 11) is determined by the spring tensioner (Item 7 Fig 11) and the tensioner adjusting nuts (Items 8-9 Fig 11). Tension should be applied to the spring (Item 6 Fig 11) sufficient to bring the knife (Item 2 Fig 11) firmly back into position after releasing an obstruction such as a stone. The horizontal setting of the knife (Item 2 Fig 11) is obtained by loosening the two set screws (Item 10 Fig 11) in the two stop collars (Item 11 Fig 11) and sliding the knife arm (Item 5 Fig 11) through the knife arm bracket. Always set the knives to top the beet as close to the knife arm (Item 5 Fig 11) as possible as this is the most rigid part of the knife whereas the end is springy and not constant in pressure.

The forward and backward position of the knives is adjusted by loosening the two set screws (Item 12 Fig 11) in the knife arm bracket (Item 13 Fig 11) and sliding the knife arm bracket (Item 13 Fig 11) in the adjusting slots provided in the topping unit frame (Item 14 Fig 11). As a guide to the most suitable position of the knife (Item 2 Fig 11) in relation to the feeler wheels (Item 1 Fig 3) position the rear set screw (Item 15 Fig 11) holding the knife (Item 2 fig 11) to the knife arm (Item 5 Fig 11) approximately in line with the centre of the feeler wheel shafts (Item 16 Fig 11). The knives should be forward for small beet and backward for large beet.

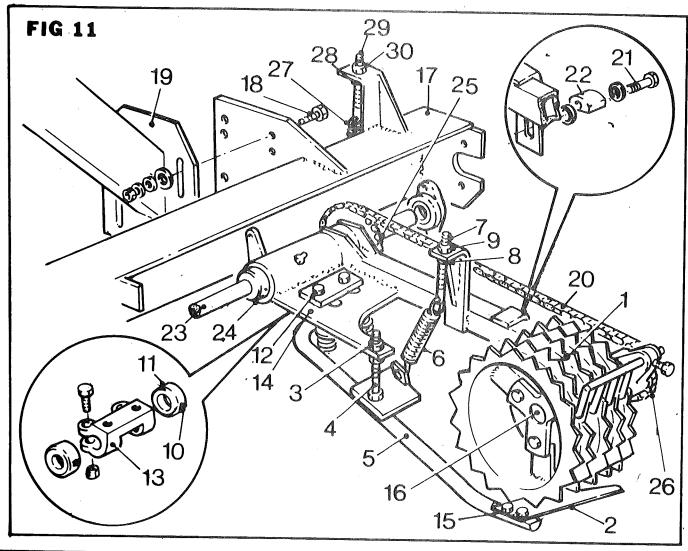
Downward pressure can be applied to the feeler wheel (Item 1 Fig 11) by adjusting the tension of the topping unit spring (Item 27 Fig 11). To adjust the tension loosen the lower locking nut (Item 28 Fig 11) on the spring tensioner (Item 29 Fig 11) and adjust by turning the upper locking nut (Item 30 Fig 11) until the required tension is obtained. This adjustment will vary according to the number of high or low beet in the crop and to the firmness or looseness of the soil. The adjustments for the pitch of the topping units is provided at each end of the mounting frame (Item 17 Fig 11) and is determined according to the working depth of the harvester. To adjust loosen the nuts on the setscrews (Item 18 Fig 11) in the mounting frame (Item 17 Fig 11) and raise or lower using the adjusting slots in the A frame (Item 19 Fig 11) to the required position. If more adjustment is required remove the setscrews (Item 18 Fig 11) from the upper holes in the mounting frame (Item 17 Fig 11) and place them in the lower set of holes and reassemble in the slots of the 'A' frame (Item 19 Fig 11) and tighten up when the height is correctly set.

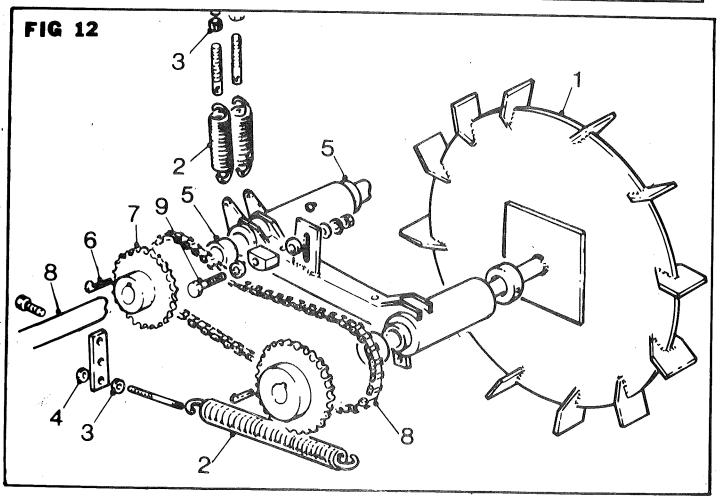
Downward pressure on the land wheel (Item 1 Fig 12) is applied by three springs (Item 2 Fig 12). To adjust the pressure loosen the nearest lock nut (Item 3 Fig 12) to the spring (Item 2 Fig 12) and adjust by turning the other lock nut (Item 4 Fig 12).

Adjustment for various row widths is carried out by moving the outside units and leaving the centre unit in its original position. To adjust, loosen the grub screws in the pivot boss (Item 24 Fig 11). Remove the gib head key from the drive sprocket (Item 25 Fig 11). The topping units can be moved along the shaft (Item 23 Fig 11) to the required position.

Note: The row width measurement should be made from the centre of the centre feeler wheel to the centre of the outside feeler wheel not along the shaft (Item 23 Fig 11). When the correct row width has been obtained tighten the grub screws (Item 24 Fig 11) and align the drive sprocket (Item 25 Fig 11) with the drive sprocket (Item 26 Fig 11) fitted to the end of the feeler wheel shaft (Item 16 Fig 11). Always ensure that the topping knife (Item 2 Fig 11) is kept reasonably sharp.

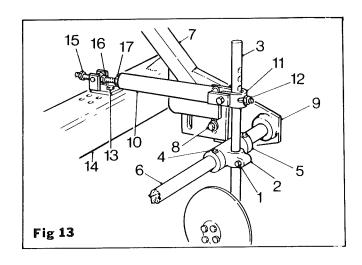
It is important that the topping unit drive chains are tensioned correctly or bad topping will occur. All chains are tensioned by a nylon block. To adjust the feeler wheel drive chain (Item 20 Fig 11) loosen the nut on the setscrew (Item 21 Fig 11) and pull the block (Item 22 Fig 11) upwards until the tension of the chain is correct and then tighten up the nut. To tension the topping unit main drive chain (Item 8 Fig 12) loosen the nut on the setscrew (Item 9 Fig 12) and push the block down on to the chain until the correct tension is gained and secure block.



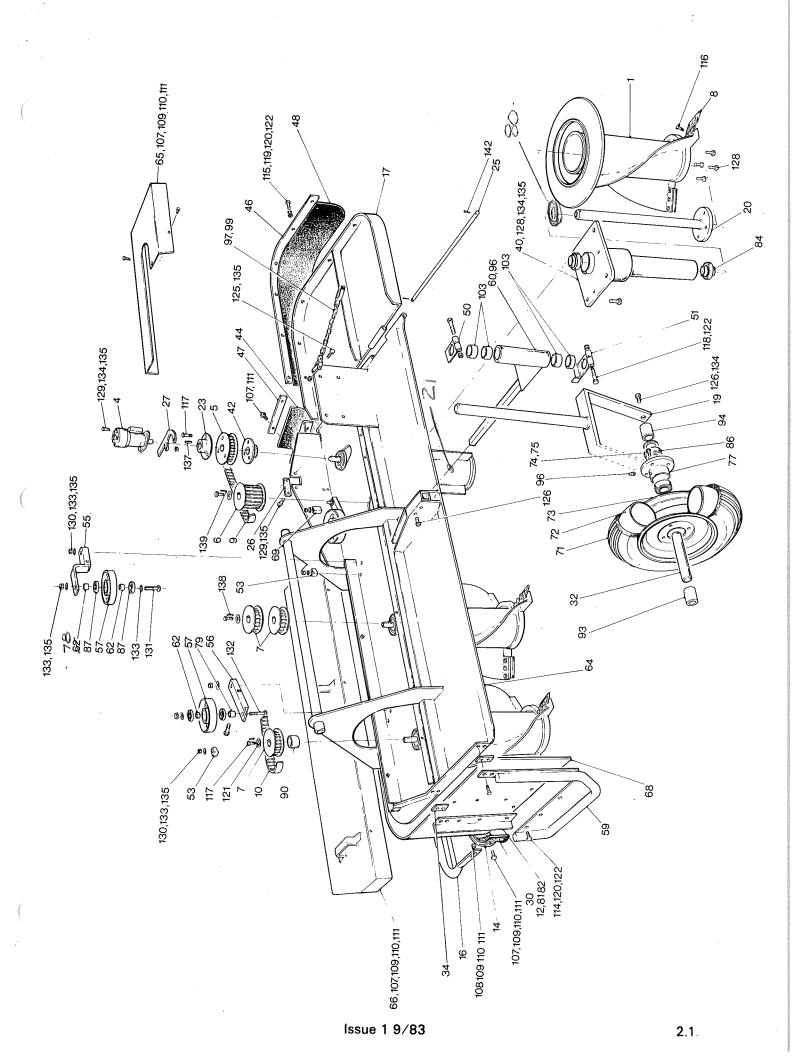


DISC COULTERS

The purpose of the disc coulters fitted in front of the topping unit is to cut sugar beet leaves and trash to prevent them from building up and clogging on the knives (Item 2 Fig 11), also to cuta 11/2 in (38mm)deep furrow for the knife arms. This furrow enables the knife arm to drop down when topping beet at ground level, adjustment can be made to the depth of the disc by loosening the nut and bolt (Item 1 Fig 13) in the stalk bracket (Item 2 Fig 13) and sliding the disc coulter stalk (Item 3 Fig 13) up or down depending on the depth required. To alter the disc coutler for different row centres, first loosen the setscrew (Item 4 Fig 13) in the collars (Item 5 Fig 13) either side of the stalk bracket (Item 2 Fig 13) and move the bracket along the support bar (Item 6 Fig 13) until the required position is obtained, making sure the disc will pass the widest beet without cutting it, then slide the collars (Item 5 Fig 13) up to the bracket (Item 2 Fig 13) and tighten the setscrews. To adjust the height of the disc coulter support bar (Item 6 Fig 13) in relationship to the 'A' frame (Item 7 Fig 13) loosen the nuts and bolts (Item 8 Fig 13) and move the disc coulter support brackets (Item 9 Fig 13) up or down the slots in the 'A' frame (Item 7 Fig 13) until the bar is correctly positioned then secure with nuts and bolts. Once these adjustments have been made, attention must be paid to the tension barrel assembly (Item 10 Fig 13). The barrel should be in line with the disc stalk (Item 3 Fig 13) to ensure that the spring tensioner will work correctly. To adjust the tension barrel (Item 10 Fig 13) to come parallel with the ground move the the tension bracket (Item 11 Fig 13) up or down the disc coulter stalk (Item 3 Fig 13), securing with the nut and setscrew (Item 12 Fig 13). To adjust the barrel to be in line with the disc stalk (Item 3 Fig 13) when looking down on the tension barrel assembly remove the nuts and bolts from the trunnion support (Item 13 Fig. 13) and move it along the mounting frame (Item 14 Fig 13) until the tension barrel (Item 10 Fig 13) aligns with the disc stalk (Item 3 Fig 13) and secure down on to the mounting frame (Item 14 Fig 13). If the holes in the trunnion support (Item 13 Fig 13) do not quiet align with those in the mounting frame (Item 14 Fig. 13) when in the ideal position. Move the trunnion support along to the nearest set of holes. Adjustment is provided for setting the angle and for tensioning the disc coulter, to ensure that the disc will cut efficiently the angle of it must be set slightly forward to allow it to enter the trash instead of lifting, also at the same time the disc should be tensioned correctly. If the tension is insufficient the disc will not be held firmly in the ground and consequently it will ride over the tops or trash instead of cutting it. Adjustment for the angle is made by loosening the lock nut (Item 15 Fig 13) and turning the other nut (Item 16 Fig 13) clockwise or anticlockwise depending on the angle required. Once the angle is achieved secure by tightening up nut (Item 16 Fig 13), both nuts must be tight failure to do so will result in damage to the thread. To adjust the tension turn the nut (Item 17 Fig. 13) clockwise or anticlockwise, circumstances must the nut be loose:







TOPPER

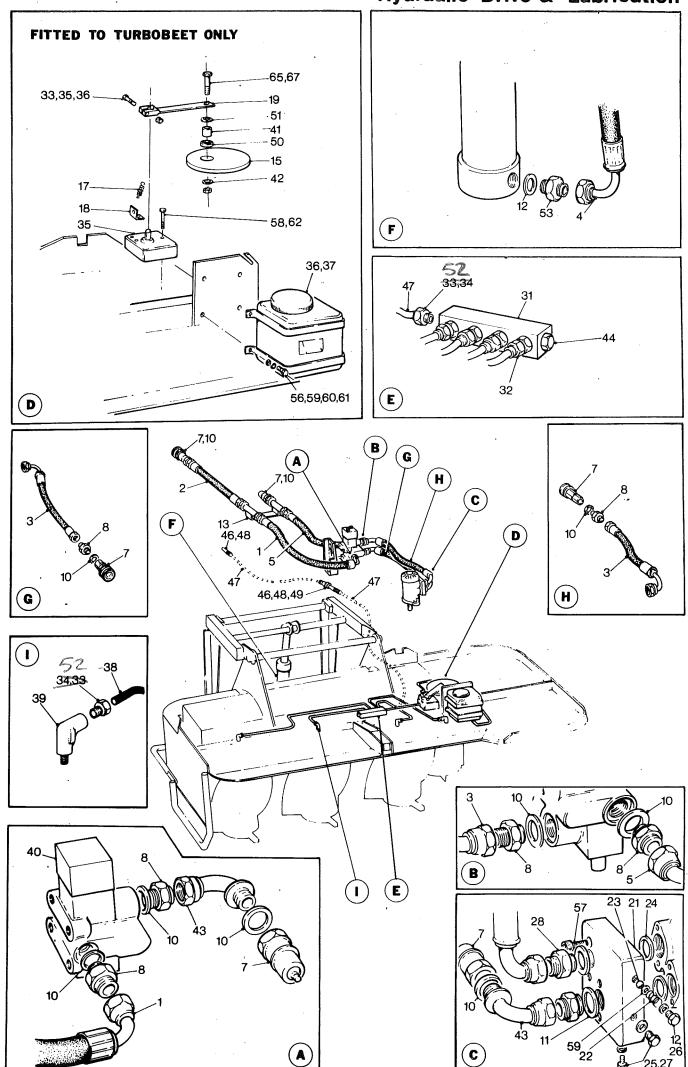
Item No.	Part No.	DESCRIPTION	, Qty.	Remarks
1 2	11001	Rotor	3 .	
3 4 5 6	11201 11202 11203	Motor Pulley (48 Grooves) Pulley (38 Grooves x 95)	1 .	
7 8 9	11204 11205 11206 11207	Pulley (38 Grooves x 40) Knife Belt Belt	1 3 9 1	
11 12	11207	Rotor Skirt Stay	2	
13 14	11211	Rubber Support Bracket	1	
15 16 17	11213 11215	Foot Guard Side Deflector Flap	1 .	·
18 19 20 21	11218 11219 11220	Wheel Leg Rotor Spindle Rotor Side	1 4 1	
22 23 24	11223	Motor Fixing Support	1	
25 26 27 28	11226 11227 11228	Hinge Pin Motor Stop Bracket Motor Reaction Bar	1 1 1	•
29 30	11232	Rubber Skirt	1	. *
31 32 33	11234	Wheel Axle Shaft	1	,
34 35 36	11241	Spacer (Skirt)	3	
37 38 39	11247 11248	Stand Right Hand Stand Left Hand	1 1	Not Illustrated Not Illustrated
40 41	11427	Rotor Bearing Housing	4	
42 43	11495	Drive Collar	1	
44 45	11529	Rear Rubber Flap	1 .	
46 47 48 49	11539 11540 11541	Clamp Strip Clamp Strip Rubber Side Flap	1 1 1	
50 51 52	11643 11644	Depth Wheel Clamp Depth Wheel Clamp Stop Bracket	1	
53 54	11659	Stop Block (Short)	2	
55 5€ 57 58	11661 11662 11663	Jockey Roller Support Bracket Jockey Roller Support Bracket Jockey Roller	1 2 3	_
59 60 61	11692 1693 11694	Side Foot Guard Wheel Support	1 1	•
62 63	11706	Jockey Roller Spacer	4	
64 65 66 67	11723 11724 11725	Top Plate Drive-Guard-Motor End Drive Guard	1 1 1	
68 69 70	11728 - 11732	Skirt Stop Block (Long)	1 1	
71 72 73 74 75	17198 17199 17200 17201 17202	Tyre Tube Rim Wheel Stud Wheel Nut	1 1 1 4 4	
76 77 78 79 80	SS-0250-13-020	Wheel Hub SPACER S Steel Spacer OZ STEEL SPACER	1 2 4	
81 82	2611-1206 2662-1200	Fixing Pin Fixing Collar	18 18	

TOPPER

Item No.	Part No.	DESCRIPTION	Qty.	Remarks
83 84	1130-30	Bearing Insert	· .	
85 86 87	6005RS 6301RS	Bearing Bearing	8 2 6	
88 89 90 91	A40	Spacer	1	
92 93 94	D60 D78	Spacer Spacer	1 1	
95 96 97	GS412 GS506/15	Grease Nipple Chain	2	
98 99 100 101	H171	Shackle	1	
102 103 104 105	RH43M	Bush	4	
106 107 108 109 110 111		M8 x 25 Hex Hd Bolt M8 x 35 Hex Hd Bolt M8 Spring Washer M8 Plain Washer M8 Nut	27 3 28 28 28 30	
113 114 115 116 117 118 119 120 121 122		M10 x 25 Hed Hd Bolt M10 x 25 Hed Hd Setscrew M10 x 25 Hex Hd Bolt (Patch Type) M10 x 30 Hed Hd Setscrew (Patch) M10 x 95 Hex Hd Setscrew M10 Plain Washer M10 Spring Washer M10 Special Washer M10 Nut	17 6 27 9 2 23 23 23 25	
124 125 126 127 128 129 130 131 132 133 134 135	·	M12 x 25 Hex Hd Bolt M12 x 30 Hex Hd Setscrew M12 x 30 Hex Hd Setscrew (Patch Type) M12 x 40 Hex Hd Setscrew (Patch Type) M12 x 40 Hex Hd Setscrew M12 x 60 Hex Hd Bolt M12 x 85 Hex Hd Bolt M12 x 110 Hex Hd Bolt M12 Plain Washer M12 Spring Washer M12 Nut	1 4 16 16 4 6 1 2 9	
136 137 138 139 140		RBE Key 8 x 7 x 32mm RBE Key 8 x 7 x 40mm RBE Key 8 x 7 x 80mm	2 4 1	
141 142 143		Split Pin 1,4 Dia x 1	2	
144				

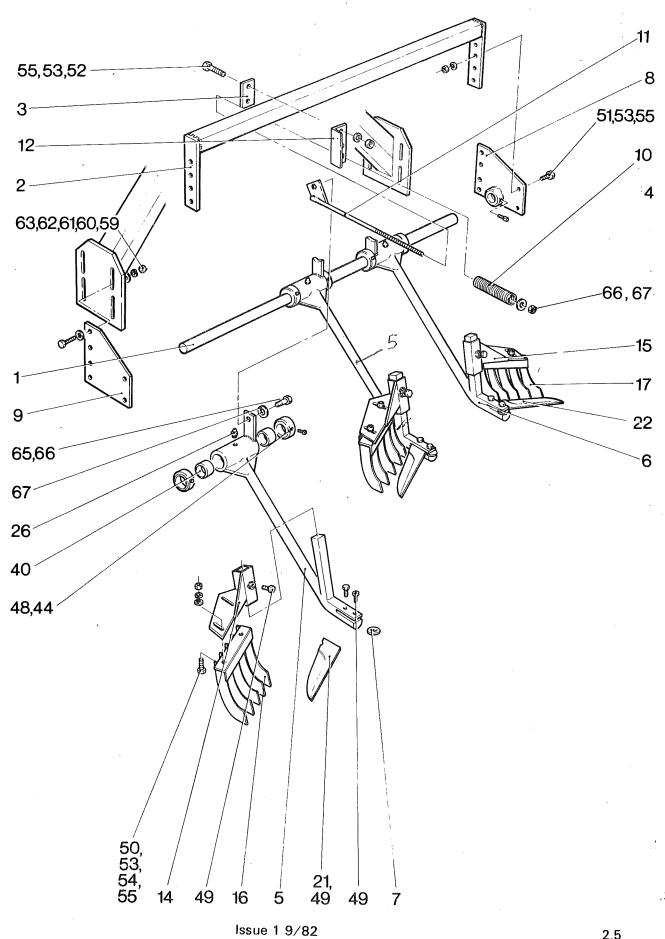


Hydraulic Drive & Lubrication



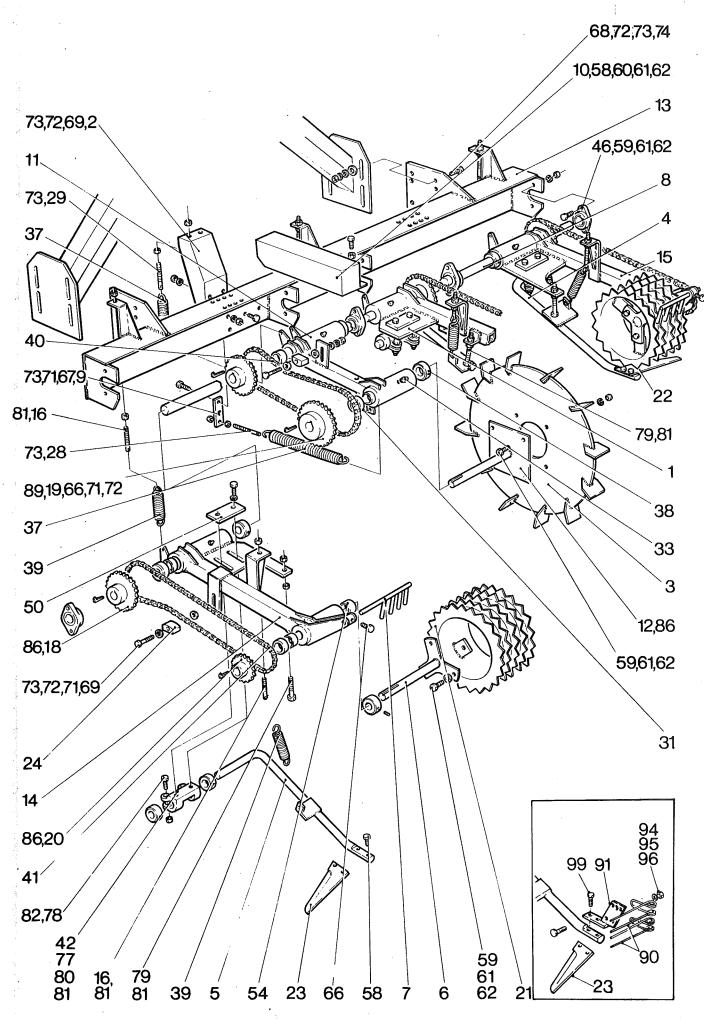
HYDRAULIC DRIVE & LUBRICATION

Item	Part	DESCRIPTION	Qty.	Remarks
No.	No.			
1	11100	Pressure Hose $\frac{3}{4}$ " Unit Length 4750	1	
2	11101	Pressure Hose ¾" Unit Length 1000	1	
3	11102	Pressure Hose 3/4" FM Unit	2	
4	11104	Length 1000 Pressure Hose $rac{9}{8}$ " BSP Unit	1	
5	11105	Length 4750 Return Hose $\frac{3}{4}$ Unit		
	1	Length 4750	1	
6 7	11108	¾" BSP Quick Release Coupling	3pr	
8	11115	Male/Male Adaptor ¾" BSP ¾" BSP	6	
9 10	11100	Dowty Seal %'' BSP	12	
11	11123 11124	Dowty Seal 1/2" BSP	2 3	
12 13	11125 11171	Dowty Seal ¹ / ₈ " BSP Hydraulic Pipe Joiner Support	1	
14			1	
15 16	11242	Reaction Wheel		
17	11244	Reaction Wheel Spring	1 1	
18 19	11246 11259	Spring Tab Operating Arm	1	
20 21	11288	Aluminum Block	1	
22	11289	Spring	1 1	
23 24	1,1290 11291	Ball Bearing 'O' Ring	2	
25	11292	Blanking Plug 1/2" BSP	2	
26 27	11293 11294	Blanking Plug ³ / ₈ " BSP Dowty Seal ¹ / ₈ " BSP	2	
28	11295	Male/Male Adaptor ¾" BSP "" BSP	2	
29			ŀ	
30 31	11814	4 Way Manifold Block	1	
32	11450	Metering Unit	4	
33 34	11452 11453	Sleeve Nut Sleeve Cone	4	1
35	11455	Pump	1 1	
36 37	11456 11457	Tank Strap	2	
38	11447	√√32 Tubing	A/R 4	·
39 40	11459 11490	Elbow Diverter Valve	1	
41	11493	Operating Arm Spacer	1 1	
42 43	11543 12350	Reaction Wheel Washer 3/4" Bent Stem Adaptor	2	ļ
44	11815 13040	5∕ ₁₆ UNF Blanking Plug	1 3	
45 46	.13040 13048	Blanking Plug Connector	1	Sceptre Only
47	13051	1/4" Nylon Tubing Quick Release Coupling (Male)	A/R 2	Sceptre Only Sceptre Only
48 49	13178 13179	Quick Release Coupling (Male) Quick Release Coupling (Female)	1	Sceptre Only
50	6200RS	Bearing	1 1	
51 52	22059025 13329	Starlock Washer	i	
53	UC 31A	%" BSP %" BSP Male / Male Adaptor	1	
54		Adaptol		
55 56		M6 x 25mm Hex Hd Setscrew	4	
57		M6 x 40mm Socket Hd Setscrew	2 2	
58 57		M6 x 56mm Hed Hd Bolt M6 Plain Washer	5	
60		M6 Spring Washer	4	
61		M6 Nut M6 Lock-nut	2	
62 63				
64		M10 x 30 Hex Hd Setscrew M10 x 50 Hex Hd Bolt		
65 66		M10 Plain Washer	1	
67		M10 Lock-nut	2	
68 69				
70			1	
		·		
				Ì
	1	1		
E			•	1



Item No	Part No.	Description	Qty per Assy	Remarks
1 2 · 3	11180 11181 11187	Scalper Support Bar Spring Support Bar Spring Clamp Bar	1 1 3	
4 5 6 . 7 8 9 10 11	11318 11319 11324 11530 11531 11630 11 638)6©7d	Scalper R.H. Scalper L.H. Blade Locking Disc Mounting Plate L.H. Mounting Plate R.H. Spring Tension Screw Tension Screw Bracket	1 3 1 1 1 1	
13 14 15 16 17 18 19	12261 12262 12152 12153	R.H. Comb Mounting Bracket L.H. Comb Mounting Bracket R.H. Comb L.H. Comb	2 1 2 1	
20 21 22 23 24	17185 17186	Knife R.H. Knife L.H.	2	
25 26 27 28 29 30 31 32 33 34 35 36 37 38	GS 412			
39 40 41 42	RH 43M	Bush	6	
43 44 45 46	ST 41M	Collar	6	
47 48 49 50 51 52 53 54 55 56 57		M10x20mm Sq. HD. Setscrew M10x20mm Hex HD. Setscrew M10x30mm Hex HD. Setscrew M10x40mm Hex HD. Setscrew M10x80mm Hex HD. Bolt M10 Spring Washer M10 Plain Washer M10 Nut	1 9 6 4 6 16 6	
58 59 60 61 62 63 64		M12x40 Hex HD. Setscrew M12 Spring Washer M12 Plain Washer M12 Special Washer M12 Nut	4 4 4 4	
65 66 67	,	M16x40 Hex Head Bolt M16 Nut M16 Washer	1 2 2	

Feeler Wheels

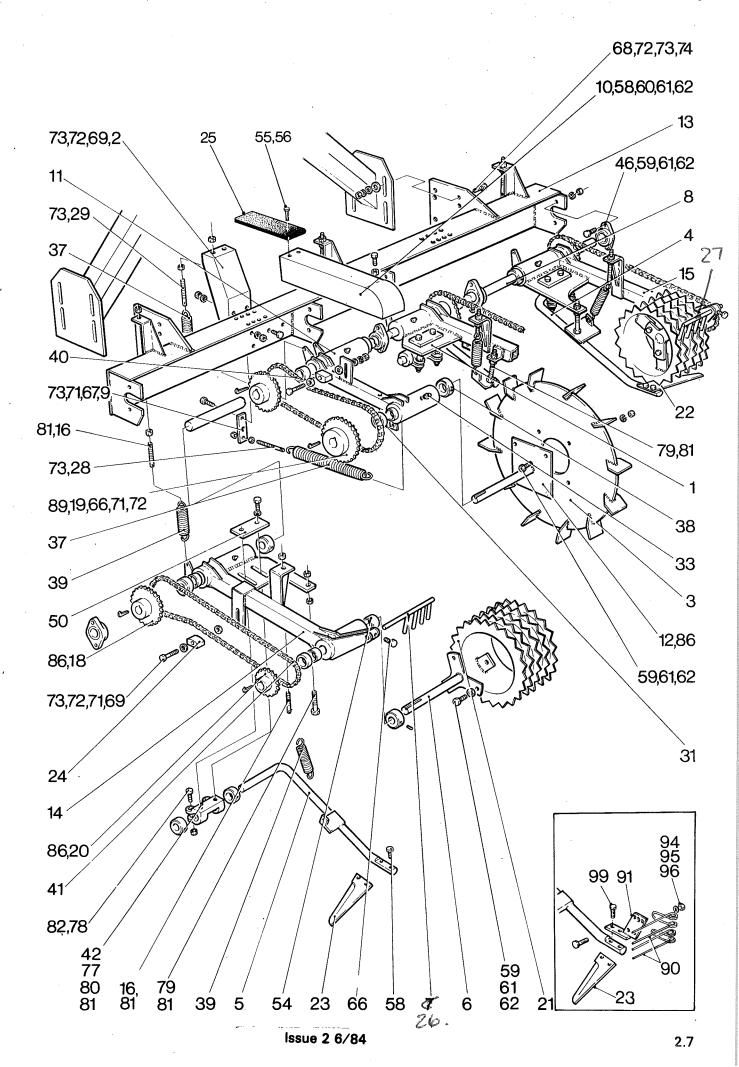


tem	Part	DESCRIPTION	Qty.	Remarks
No.	No.			
1	11402	Centre Arm	1	
2	11405 11406	Spring Tension Bracket Paddle Wheel	1 1	
4	11406	Knife Arm	i	,
5	11408	Knife Arm	2 3	
6	1140	Feeler Wheel Shaft	3	
7 8	11411 11412	Scraper Drive Shaft	3	
9	11446	Tension Bracket	i	
0	11462	Paddle Wheel Drive Guard	1 1	
1	11524	Paddle Wheel Arm	1 1	·
2	11721	Paddle Wheel Shaft		
3 4	11544 11546	Main Beam Right Hand Arm	1 1	
5	11547	Left Hand Arm	li	
6	11813	Spring Tensioner	6	
7				
8 9	17075 11722	21T. Sprocket 29T. Sprocket	1 4	
9 20	17087	15T. Sprocket	3	
.0 !1	17117	Feeler Wheel	3	
2	17125	Knife LH	1 1	
23	17129	Knife RH	2	
4	17155	Nylon Chain Tensioner	4	
.5 .6				
.0 !7				
8	BM82m	Spring Tensioner	1	
9	BM212m	Spring Tensioner	2	
10		\		
11	C8	Spacer	1	
12 13	GS412	Grease Nipple	8	
4	00472	drouge rappie		
5	Ì			·
6	i			
7	PS194	Spring Collar	3 14	
18 19	PS326m 11648	Spring	6	
10	PS871/67	Chain	1	
1	PS871/74	Chain	3	
2	PS1002am	Knife Arm Bracket	3	
3				
.4 .5	*			
6	SFT30	Bearing	4	
7	101,100	2021		
8				
9		W ' A O B		
0	SPCL309	Knife Arm Clamp Plate	3	
1	,		1	
3	,			
4 , .	6206RS	Bearing	, 16	
5 '	,			
6				
7 8	1	M10 x 25mm LG Hex Hd Setscrew	8	
9		M10 x 25mm Ed Hex Hd Setscrew	21	·
ŏ	Ì	M10 Plain Washer	2	
1		M10 Spring Washer	23	
2 '		M10 Nut	23	
3				
4 5			1	
5 6		M12 x 25mm LG Hex Hd Setscrew	4	
7		M122 x 45mm LG Hex Hd Setscrew	4	•
8		M12 x 50mm LG Hex Hd Setscrew	8	i .
9	i	M12 x 70mm LG Hex Hd Setscrew	4	
0	1	M12 Special Washer	17	
2		M12 Special Washer M12 Spring Washer	17	
3	•	M12 Nut	22	,
4				
5				
'6 '7		M16 v 40mm I C Have III Consession	1 _	
8	,	M16 x 40mm LG Hex Hd Setscrew M16 x 50mm LG Hex Hd Setscrew	6	
9		M16 x 110mm LG Hex Hd Setscrew	3	ł
0		M16 Spring Washer	6	
	I	M16 Nut	18	l
1		M16 Locknut		

Item No.	Part No.	DESCRIPTION	. Ωty.	Remarks
83 84 85 86 87 88		7x8x30mm RBE Key 7x8x50mm LG Gib Hd Key	1 8	
89 90 91 92	11649 11818	Crown Deflector Tine Crown Deflector Bracket	6 3	Optional Optional
93 94 95 96 97		M8 x 30mm Hex Hd Setscrew M8 Flat Washer M8 Nut	12 12 12	Optional Optional Optional
98 99		M10 x 30mm Hex Hd Setscrew	6	Optional
		·.		



Feeler Wheel Assembly (From Serial No. Y408A)

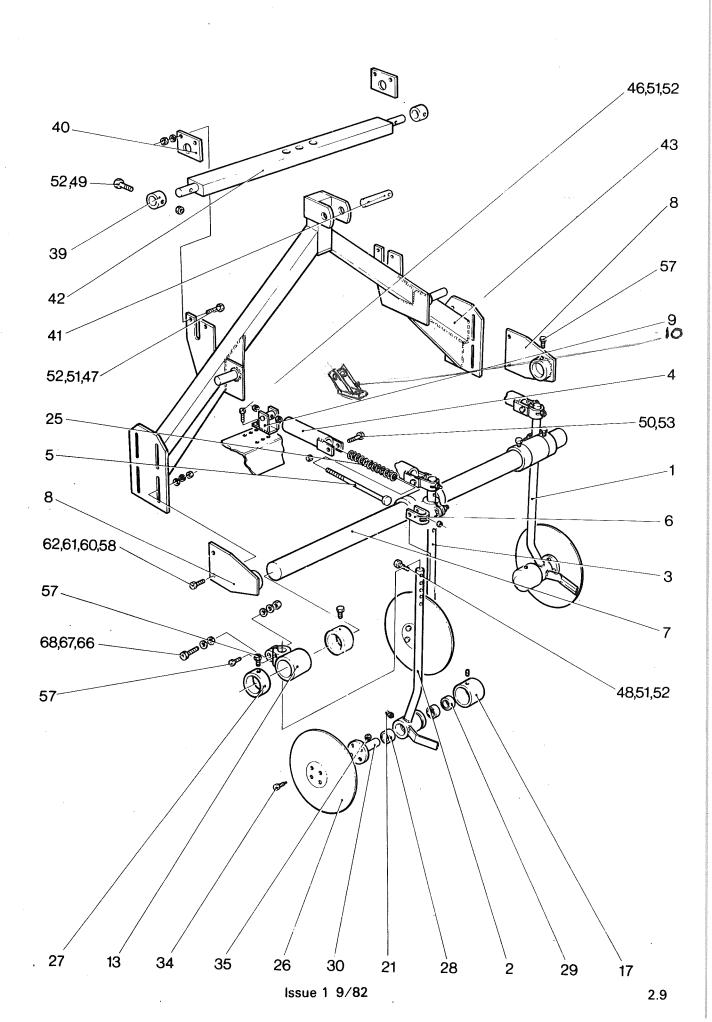


FEELER WHEEL ASSEMBLY (From Serial No. Y408A)

tem No.	Part No.	DESCRIPTION	Qty.	Remarks
NO.			1. 1	
1	11402	Centre Arm		
2	11405 11406	Spring Tension Bracket Paddle Wheel	1 ; 1	
4	11407	Knife Arm	li l	
5	11408	Knife Arm	2	
6	ל11409	Feeler Wheel Shaft	3	
7	4441	-Seraper	3	
8	11412	Drive Shaft		
9	11446	Tension Bracket Paddle Wheel Drive Guard		
0	11820 11524	Paddle Wheel Arm	li	
2	11721	Paddle Wheel Shaft	lil	
3	11544	Main Beam	1 1	
4	11546	Right Hand Arm	1	
5	11547	Left Hand Arm	1 1 .	
6	11813	Spring Tensioner	6	
7			1 . 1	
8	17075	21T. Sprocket	4	
9	11722	29T Sprocket	1 3	
10	17087	15T Sprocket Feeler Wheel	3	
21	17117 17125	Knife LH		
3	17125	Knife RH	2	
4	17155	Nylon Chain Tensioner	4	
25	11821	Rubber Flap	1 1	
26	114116	Rubber Flap SCRAPER LH SCRAPER RH		
27	114112		2	
28	BM82m	Spring Tensioner	1 1	
29	BM212m	Spring Tensioner	2	
30			.	-
11	C8	Spacer	1	
2	CCA12	Green Nipple	8	
3 4	GS412	Grease Nipple	l °	
5				
6				
7	PS194	Spring	3	
8	PS326m	Collar	14	
9	11648	Spring	6	
ŏ	PS871/67	Chain	1	
ĭ	PS871/74	Chain	3	
2	PS1002am	Knife Arm Bracket	3	
3				
4				
5		n	4	
6	SFT30	Bearing	"	
7				
3				
,	SPCL309	Knife Arm Clamp Plate	3	
, 	31 01303	Kind Ann Oldright late	1	
<u> </u>				
3				
4 .	6206RS	Bearing	16	
5		M6 x 20 Hex Hd Setscrew	2	
6		M6 Locknut	2	
7			_	
В		M10 x 25mm LG Hex Hd Setscrew	8	
9		M10 x 30 LG Hex Hd Setscrew	21	
0		M10 Plain Washer	2 23	İ
1		M10 Spring Washer	23	
2		M10 Nut	23	
3		1	1	
5		i		
5		M12 x 25mm LG Hex Hd Setscrew	4	
7		M122 x 45mm LG Hex Hd Setscrew	4	
, 3		M12 x 50mm LG Hex Hd Setscrew	8	l
9		M12 x 70mm LG Hex Hd Setscrew	4	
o i				İ
1		M12 Special Washer	. 17	1
2		M12 Spring Washer	17	
3		M12 Nut	22	l
4			1	
5	!		I	
6		·	1	ED.
7		M16 x 40mm LG Hex Hd Setscrew	6	
8		M16 x 50mm LG Hex Hd Setscrew	6	
9		M16 x 110mr. LG Hex Hd Setscrew	3	1
0		M16 Spring Washer	6	
1 [,	M16 Nut	18	I
2		M16 Locknut	16	9

FEELER WHEEL ASSEMBLY (From Serial No. Y408A)

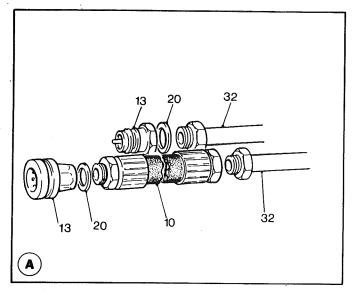
No. DESCRIPTION Oty. Remarks			FEELER WHEEL ASSEMBLY	(From	Serial No. Y408
## 1			DESCRIPTION	Oty.	Remarks
98 90 11649 Crown Deflector Tine 6 3 Optional 91 11818 Crown Deflector Bracket 3 Optional 92 95 96 96 97 97 98 99 MR Flat Wesher 12 Optional 12 Optional 99 99 MR Value Parket 12 Optional 99 99 MR Value Parket 12 Optional 99 99 MR Value Parket 12 Optional 99 99 MR Value Parket 12 Optional 99 99 MR Value Parket 12 Optional 99 99 MR Value Parket 12 Optional 99 99 MR Value Parket 12 Optional 99 99 MR Value Parket 12 Optional 99 99 MR Value Parket 12 Optional 99 99 MR Value Parket 12 Optional 99 99 MR Value Parket 12 Optional 99 99 MR Value Parket 12 Optional 99 99 MR Value Parket 12 Optional 99 99 MR Value Parket 12 Optional 99 99 MR Value Parket 12 Optional 99 99 MR Value Parket 12 Optional 99 99 99 MR Value Parket 12 Optional 99 99 99 MR Value Parket 12 Optional 99 99 99 MR Value Parket 12 Optional 99 99 99 99 MR Value Parket 12 Optional 99 99 99 99 99 99 99 99 99 99 99 99 99	83 84 85 86 87 88		7x8x30mm RBE Key 7x8x50mm LG Gib Hd Key		
93 94 95 96 97 98 99 M8 Fist Washer M8 Nut 12 Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional	89 90 91	` 116 49 11818	Crown Deflector Tine Crown Deflector Bracket		Optional Optional
98 99 M10 x 30/mm Hex Hd Setscrew 6 Optional	93 94 95 96		MB Flat Washer	12	Optional Optional Optional
	98		M10 x 30mm Hex Hd Setscrew	6	Optional
		\			
		;			
					·
					·

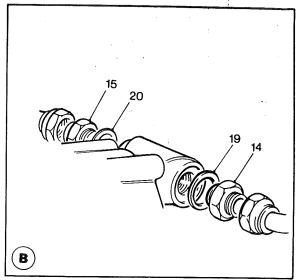


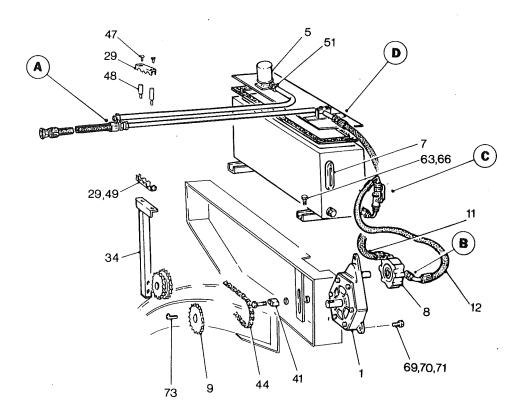
'A' Frame and Discs

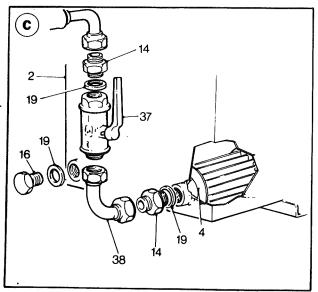
	ame and Di			
Item No	Part No.	Description	Qty per Assy	Remarks
4	11470	R.H. Disc Stalk		
1	11472		1	
2	11473	L.H. Disc Stalk	1	
3	11474	Centre Disc Stelk	1	
4	11498	Tension Barrel	3	
5	11499	Tension Spindle	3	
6	11500	Tension Bracket	3	
7	11520	Disc Unit Support Bar	1	
8	11521	Support Bar Bracket	2	
9	11522	Trunnion Support	91	
10	11955			
11	11793	OUTER TRUMMION SUPPORT	2.	
12 13 14	BM 2010	Disc Coulter Stalk Bracket	3	
15 16 17	SIM BMT BI∭ √	Dust Cap	3	
18 19 20		Constanting of the Constanting o		
21 22 23 24	GS 412	Grease Nipple	3	
25	PS 165	Spring	3	
26	PS 224	Disc	3	
27	PS 353./∧	Collar	6	
28	PS 386M/N/M		6	
29	PS 588	Oil Seal	3	
30			3	
	PS 596AM	Disc Spindle	3	
31			1	
32			ł	·
33	2011 1007	F() B:	1.0	
34	2611-1007	Fixing Pin	12	
35	2682-1000	Fixing Collar	12	
36 37				
38 39 40 41 42 43	11183 11184 11192 11517 11518	'A' Frame Assembly 11564 Retaining Plate Collar Retaining Plate Three Point Linkage Pin Draw Bar 'A' Frame	2 2 1 1 1	
44 45 46 47 48 49 50 51 52 53 54		M10 x 30mm Lg Hex Hd Setscrew M10 x 40mm Lg Hex Hd Bolt M10 x 50mm Lg Hex Hd Bolt M10 x 60mm lg Hex Hd Bolt M10 x 70mm Lg Hex Hd Bolt M10 Spring Washer M10 Nut M10 Locknuts	6 4 3 2 3 13 15 3	
55 56 57 58 59 60 61 62 63 64		M12 x 20mm Lg Hex Hd Setscrew M12 x 40mm Lg Hex Hd Bolt M12 Plain Washer M12 Special Washer M12 Spring Washer M12 Nuts	14 4 4 4 4 13	
65 66 67 68 69		M16 x 80mm Lg Hex Hd Bolt M16 Plain Washers M16 Nuts	3 12 3	·

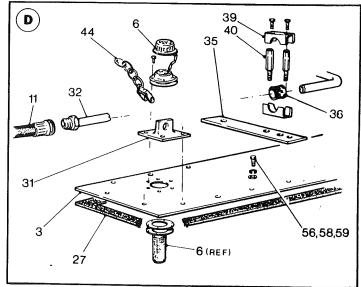
Turbobeet Hydraulics









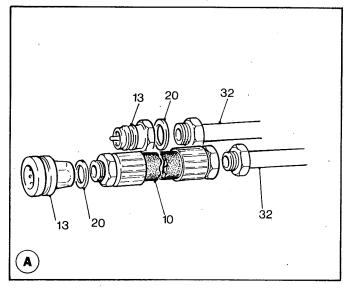


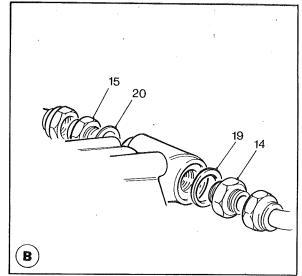
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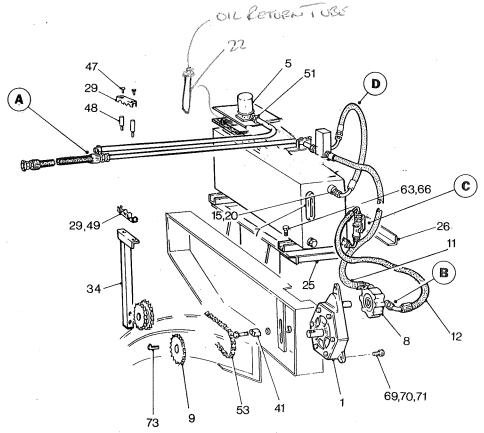
HYDRAULICS

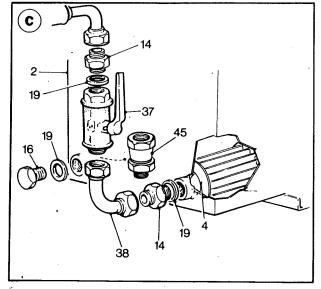
No.	Part No.	DESCRIPTION	Oty.	Remarks
1	11052	Gearbox	1 1	
2 3	11053 11054	Tank Tank Lid		
4	11056	Strainer	lil	
5	11057	Filter Complete	1	
6	11059	Air Breather	1	
7 8	11060 11067	Fluid Level plus Temp Guage		
9	11067	Pump & Webster Sprocket		
10	11101	Hose 3/4 BSP FM/M Length 1000mm	1 1	
11	11102	Pressure Hose 3/4" Unit Length 1000	1 1	
12	11107	Suction Hose 1" Unit Length 975	1 1	
13 14	11108 11114	Quick Release Coupling ¾, Male/Male Adaptor 1" BSP - 1" BSP	2pr 3	
15	11115	Male/Male Adaptor 3/4" BSP - 3/4" BSP		
16	11116	Blanking Plug 1" BSP	1 1	
17	11117	Blanking Plug ¾" BSP	2	
18 19	11122	Dowty Soal 1" BSB	4	
20	11123	Dowty Seal 1" BSP Dowty Seal 34" BSP	3	
21	11120	Bowly Sout /4 Bol	"	
22	11126	Oil Return Tube	1	
23	44474			
24 25	11171	Hydraulic Pipe Joiner Support	1.	
26		·	1 1	
27	11305	Tank Gasket	1	
28	11070	Hadroniis Piro Ole (T. 11)		
29 30	11373	Hydraulic Pipe Clamp (Triple)	1pr	
31	11440	Fixing Bracket	2	
32	11494	3/4" OD Hydraulic Steel Pipe	2	
33				
34	11509	Hydraulic Support Angle	1 1 1	
35 36	11542 11551	Clamp Support Strip Grommet	1 1	
37	11807	1" BSP Shut Off Valve		
38	11819	1" BSP F/Male 90° Adaptor - 1" BSDP Female	1.	
39	12563	Clamp		
40	12564	Stacking Nut	2	
41	17155	· Nylon Jockey	1	
42 43			1 1	
44	11327	Retaining Hook		
45		•]	
46 47	SPCT210	Stacking Nut	2	
48	SPCT212	Stacking Nut	2	
49	SPCT222	Rubber Grommet	3	
50				
51	TBMW388	Male/Female Swivel Adaptor	1 1	
52 53		·		
54				
55				
56		M6 x 25 Hed Hd Setscrew	26	
57 58	,	M6 x 35 Hex Hd Bolt ' M6 Plain Washer	4 30	
59		M6 Spring Washer	30	
60				
61		M40 00 H 111 0		
62 63		M10 x 20 Hex Hd Setscrew M10 x 30 Hex Hd Setscrew	2 4	
64		M10 X 30 HeX Hd Setscrew M10 Spring Washer	1 4 2	
65		M10 Nut	2	
66		M10 Lock-Nut	4	
67				
68 69		M12 x 40 Hex Hd Setscrew	3	
70		M12 Spring Washer	3	
71		M12 Nut	3	
72		·		
73 74		8mm x 7mm x 40mm Gib Head Key	1 1	
74 75				
1				
	•		1 I	
			1 1	
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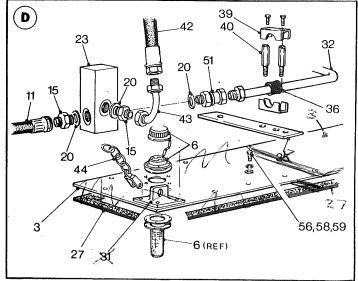
Turbobeet Hydraulics









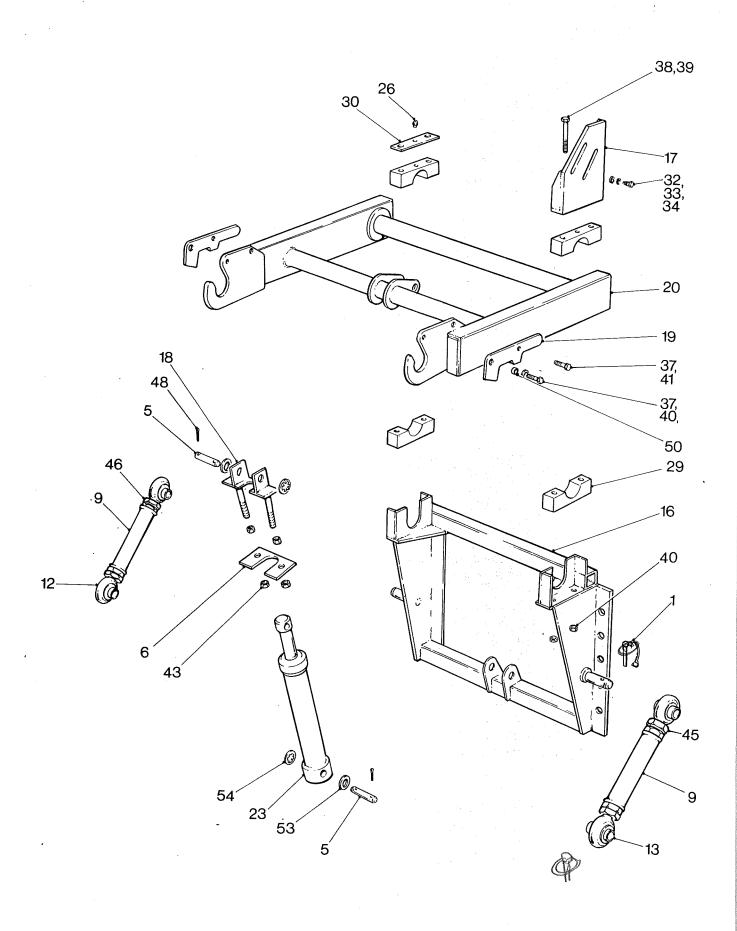


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TURBOBEET HYDRAULICS (From Serial No. TB242A)

tem No.	Part No.	DESCRIPTION	Qty.	Remarks
1	11052	Gearbox	1	**************************************
2	11063 11854-	Tank	1 1	PART NO WAS 11083
3	11054 13393	Tank Lid	1 1	phet no was 11054
4	11056	Strainer		
5	11057	Filter Complete Air Breather	1	
6	11059 11060	Fluid Level plus Temp Guage	1	
7 8	11087	Webster Pump	1	
9	11068	Sprocket	1	
10	11101	Hose % BSP FM/M Length 1000mm	1 1	
11	11102	Pressure Hose 3/4" Unit Length 1000	1	
12	11107	Suction Hose 1" Unit Length 975	2pr	
13	11108	Quick Release Coupling ¾" Male/Male Adaptor 1" BSP - 1" BSP	3	
14	11114	Male/Male Adaptor %" BSP - %" BSP	4	
15 16	11115 11116	Blanking Plug 1" BSP	1	·
17	11110	Dialiking Flag 1 201		
18]			
19	11122	Dowty Seal 1" BSP	4	
20	11123	Dowty Seal ¾" BSP	6	
21				·
22	11126	Oil Return Tube	1 1	i
23	11132	Relief Valve	1 1	
24	11171	Hydraulic Pipe Joiner Support	1 1	
25	11046	Tank Support Bracket Front Tank Support Bracket Rear	l i	<u>.</u>
26 27	11047 11305 13294	Tank Gasket	1 1	MAT Nº WAS 11305
28	11000 13239	Turk Guokot		
29	11373	Hydraulic Pipe Clamp (Triple)	1p	1
30			١ ,	
31	11440	Fixing-Bracket	2 2	1
32	11494	¾'' OD Hydraulic Steel Pipe	1 4	
33	44500	Underville Compart Apple	1	İ
34	11509	Hydraulic Support Angle Clamp Support Strip	1 1	<u> </u>
35	11542	Grommet	1 1	
36	11551	1" BSP Shut Off Valve	1	
37	11807 11819	1" BSP F/Male 90° Adaptor - 1" BSDP Female	1 1	
38 39	12563	Clamp	i	
40	12564	Stacking Nut	2	· ·
41	17155	Nylon Jockey	1	
42	12345	3/, 90° FEM x 3/4 STR FEM Hose Assembly 700LG	1	
43	12350	3/4 BSP Male x 3/4 BSP Fem 90° Adaptor	1	
44	11327	Retaining Hook	1.	
45	11808	1" BSP Male x 1" BSP Fem ale Swivel Adaptor	1	į
46		Canadana Alica	2	
47	SPCT210	Stacking Nut Stacking Stud	1 2	
48	SPCT212	Rubber Grommet	3	
49 50	SPCT222	Mapper Grounner		
51	TBMW388	Male/Female Swivel Adaptor	2	
52 53	PS871/96	Chain	1	
54 55		M6 x 25 Hex Hd Setscrew	NO-26	_
56		M6 x 35 Hex Hd Bolt	` 4	. [
57 50		M6 Plain Washer	10 80.	. i
58 59		M6 Spring Washer	10 30	1
60		···		
61				1
62		M10 x 20 Hex Hd Setscrew	2	
63		M10 x 30 Hex Hd Setscrew	4	1
64		M10 Spring Washer	2	Í
65		M10 Nut	2 4	
66 67		M10 Lock-Nut	"	
68				
69		M12 x 40 Hex Hd Setscrew	3	
70		M12 Spring Washer	3 3	
71		M12 Nut] 3	
70				1
72 73		8mm x 7mm x 40mm Gib Head Key	1	1
74			Ì	
75				
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Quick Hitch.



QUICK HITCH Item Part Qty. Remarks **DESCRIPTION** No. No. 714/5 PS 10282 Quick Release Pin 2 4 2 3 4 5 6 7 8 9 10 Ram Pin (Top & Bottom) 2 1 11816 11673 Stop Plate 2 11709 Stay 11 12 13 14 15 16 17 11718 Rod End RH (short) Rod End LH (Short) 2 11719 11730 Lift Unit Mounting Frame 11731 **Diverter Valve Bracket** 18 19 20 21 22 23 24 25 26 27 11733 Ram Stop Bracket 11734 2 Latch 11735 Lift Arm 1 PRIOR TO SERIAL NO TT 465A. H399 10379 Ram 1 PART Nº WAS H399. GS412 2 Grease Nipple 28 29 30 SPCT132 Bearing Block 4 SPCT143 Bearing Block Clamp Plate 31 M8 x 30 Hed Hd Setscrew 32 33 34 35 36 37 38 39 M8 Plain Washer 4 M8 Spring Washer 4 M12 x 40 Hex Hd Setscrew M12 x 140 Hex Hd Bolt 4 M12 Plain Washer 6 40 41 42 43 M12 Lock Nut 6 M12 Plain Nut 2 2 M16 Nut 2 2 2 44 45 11/8 UNC Locknut LH 46 11/8 UNC Locknut RH 47 48 4 Split Pin 1/4" Dia x 2" 49 SS016013/014 Steel Spacer 2 50 51 52 M20 Flat Washer 53 4 3/4" Starlock Washer 54