

Standen

Cyclone Mk IV Sugar Beet Harvester

Parts Catalogue

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ILLUSTRATED FITTING, OPERATING & MAINTENANCE INSTRUCTIONS AND SPARE PARTS LIST

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INTRODUCTION

This book gives the basic fitting, running and setting instructions necessary to ensure satisfactory operation of the Standen CYCLONE MKIV sugar beet harvester.

When studied carefully they should enable the operator to set, adjust and operate the harvesters successfully.

The settings and adjustments, although simple, may have to be made singly or in combination according to circumstances and conditions at the time of harvesting.

These instructions cannot cover all the contingencies which may be met during best harvesting season. These can only be learnt from practical experience in the field. However, any agricultural worker with practical mechanical experience will readily master the CYCLONE MKIV.

SAFETY PRECAUTIONS

UNDER NO CIRCUMSTANCES SHOULD ADJUSTMENTS TO ANY PART OF THE MACHINE BE MADE UNLESS THE TRACTOR POWER DRIVE IS DISENGAGED – ALL CHAIN GUARDS AND SHAFT GUARDS MUST BE REPLACED IMMEDIATELY AFTER ADJUSTMENTS HAVE BEEN COMPLETED. ANY WORN OR BROKEN GUARDS SHOULD BE REPLACED IMMEDIATELY – ESPECIALLY THE TRACTOR P.T.O. SHAFT GUARD TUBE. DO NOT ALLOW CHILDREN ON OR NEAR THE MACHINE AT ANY TIME.

FITTING INSTRUCTIONS

FITTING POWER UNIT (Preparing Tractor for Mountings)

1. Take off rear wheels. Take off front axle and wheels, complete with stabilizer arms and track rods, leaving steering arms on steering box free.

Take off P.T.O. covers from rear end of tractor and dismantle check chain brackets from the four studs in axle housing. Take off lower link arms and lift rear rods leaving lift arm free. Hang tractor unit on gantry with rear end about three inches lower than level of front end. Lift clear of ground.

2. Clean out 5/8" or 3/4" holes under tractor mounting pads with tap. (They are the front two holes at the front end of tractor and rear two holes at the back end).

Fit two sprockets provided on the rear wheel studs and tighten up using the same studs as for rear wheels.

Fit Power driven lifter wheel sprocket on the four stud extensions provided.

Fit the belt tensioner assembly for main drive and unloader elevator belts to the check chain bracket studs as in illustration. Next fit the large double pulley provided in kit to the P.T.O. shaft.

Note: PUT SPACER PROVIDED BEHIND DOUBLE PULLEY.

3. When fitting 35 or 135, the lower five studs are removed from axle hubs housing.
4. For the Ford 3,000 3500 axle hub bolts are long enough but remove spring washers and use deep Csk. nuts provided.
5. Please note left-hand and right-hand is indicated by facing in the same direction that the machine operates.

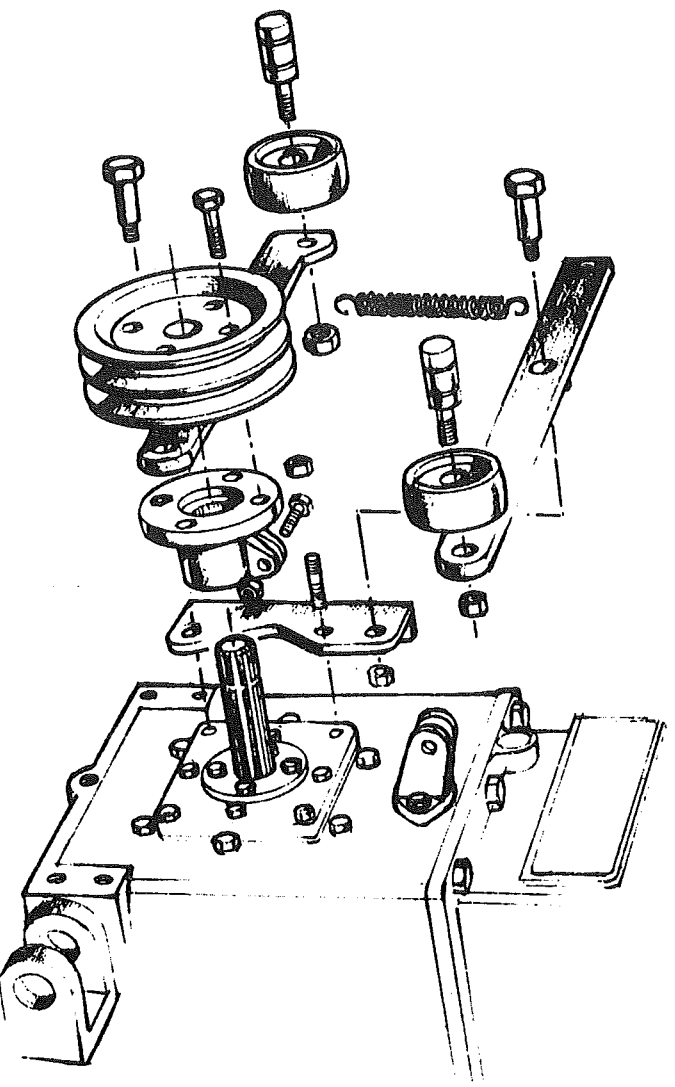


FIG. 1

FITTING POWER UNIT (Tractor to Unit)

1. Lift up tractor on gantry to clear the frame, remembering to keep the rear of tractor slightly lower than the front on the gantry.
2. Take off right-hand tank stay and offset seating platform assembly. Take off the right and left-hand plates for tractor rear axle hubs and run harvester under the tractor unit.
3. Lower tractor, rear first, to mounting pads until it drops into the 5/8 slots on the pads. When in position drop tractor right down and replace 1.1/2" x 5/8" bolts provided in kit. DO NOT TIGHTEN until the two plates provided for rear axle hubs have been fitted using the longer bolts provided in kit. Then tighten up all studs and nuts and bolts on mounting pads. Take off gantry chains.
4. Fit top halves of inner chain case guard for rear wheel drive chains.

5. Fit rear wheel drive chains and adjust them by sliding rear axle on harvester forward or back by setscrews in frame after undoing clamp bolts. Adjust chains by the 3/4" setscrews making sure to get both sides with even pressure. Correct adjustment 1/4" play up and down. This must be done with all the weight off the harvester. Tighten clamp bolts and make sure they are really tight as these must take the pressure and not the adjusting screws. Be sure to tighten lock-nut on adjusting screws so they do not vibrate out.
 6. Jack up harvester one side at a time. Take off rear wheels. Fit rear wheel drive chain case with rubber seal provided. Fit chain case to guard bolts and pack with fourteen pounds of grease. Fit rear wheel again and tighten all nuts and bolts. Then fit power driven lifting wheel drive chain.
 7. Fit, on the right-hand side, the cranked lift arm to the tractor lower link pivot pin and secure with castelated nut and split pin. Fit the lift links provided in kit to the lift arm of tractor with spacer to stop end float in the jaws of tractor lift arm. Ensure the lift arm lines up with the cranked lift arm on pivot and connect it up.

Important: When lifting hydraulics for first time check thoroughly to see nothing is fouling otherwise lift arms can easily be smashed.
 8. Bolt seating platform in position and connect up auxiliary footbrake and clutch controls with fittings provided and check for correct operation.

Please Note: AUXILIARY CONTROL ONLY TO BE USED WHILE MACHINE IS IN FIELD USE.
 9. Fit the springs to the Drive Belt tensioners. Adjust the main drive belt tensioner so that when the lever is out of gear the pulley is 1" above the belt.

The discharge elevator belt tensioner should be 3" below the belt when out of gear.
The spur box for discharge elevator can be adjusted if the belt fails to drive.
 10. Give machine fifteen minutes running. Check that all rollers are turning and no elevator latts foul on the rollers. All belts and drive chain run true. Check slip clutches. Do not over-tighten.
 11. Fit all guards and hand rail provided in kit. Fit hand grip and fan guard to engine cowling of tractor.
 12. Make sure all nuts and bolts are tight. Grease all grease nipples.
- Note: DO NOT OVER GREASE POLLARD BEARINGS.

OPERATING INSTRUCTIONS

TOPPING UNIT

The amount of crown to be removed from the beet is determined by the distance between the knife and the feeler wheel.

The knife is raised or lowered by the adjustment of two setscrews (D) situated behind the slotted knife carrier. Lateral movement can be made after loosening setscrews (E) and (F). The aim of the final adjustment should be to ensure that the feeler wheels are well on to the beet when the knife starts to cut: i.e. the knife should be further back for large beet than for small beet. If the knife cuts with a downward slant it would be advisable to lower the rear of the carrier bracket by adjusting the setscrews (D) situated behind the slotted knife carrier.

The feeler wheel assembly is spring loaded and where the tops are heavy the load should be increased by tightening the spring retaining clip (A).

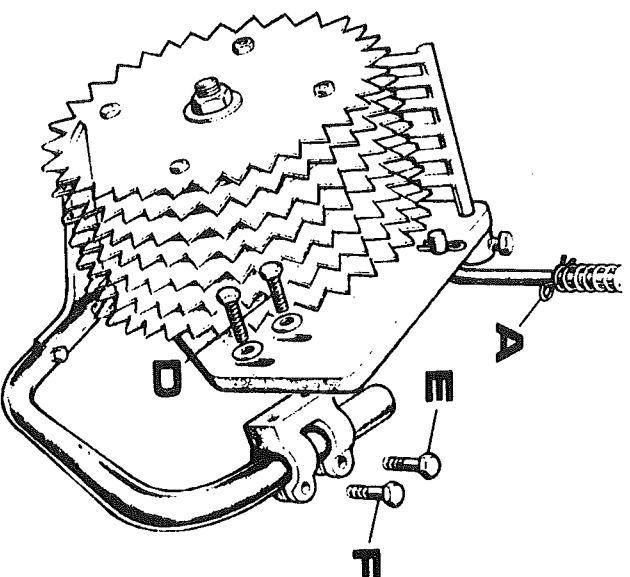


FIG. 2

SPRING LOADED KNIFE

The spring loaded knife is recommended for use on stony ground. The knife arm is designed to pivot outwards, on a bracket (A), if there is a stone between the knife and the feeler wheel. When the obstruction has cleared the knife immediately returns to its original position set at (B). The spring tension on the knife arm is controlled by a threaded rod and nut, (C).

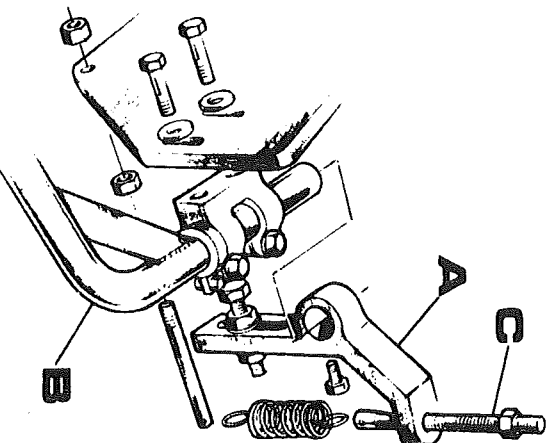


FIG. 3

CONCAVE DISC COULTER

The concave disc coultter fitted to the front of the harvester, is intended to cut trash and broken leaves and to prevent the clogging at the knife.

The disc coultter is adjusted by clamp bolt, and should be set to align the disc with the heel of the knife by bolt (B). The disc should be set after slackening bolt (A) to cut about 1.1/2" deep. This will enable the disc coultter to clear the beet of trash and to turn a furrow in which the knife arm may trail. Spring tension on disc coultter is controlled by a nut (C).

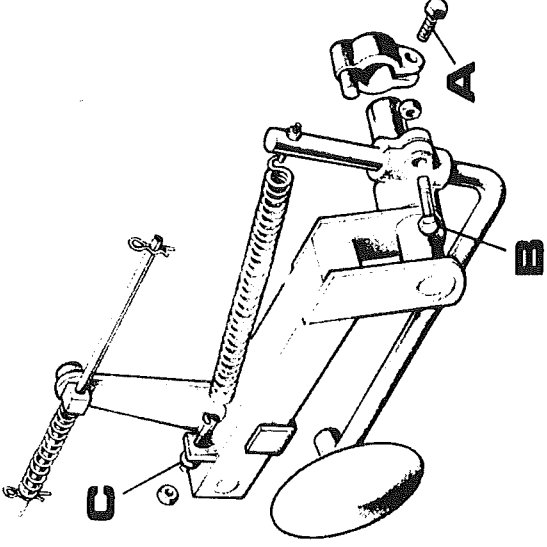


FIG. 4

TOPS PULVERISER (Optional Extra)

For smashing extra high growth or weeds the tops pulveriser can be fitted. Fitting and height adjustment are straight-forward and simple.

DEPTH CONTROL

The depth of the lifter wheel is controlled by using the hydraulic lift. The lift levers are situated at the right hand side of the tractor unit and can be reached from the offset driving position. Where draft control is fitted the lever must be put in the neutral position and the beet lifter wheels worked on the position control lever on the quadrant which is also used for raising and lowering the sub-frame. The normal working depth of lifter wheel is approximately two inches.

Note: ON DAVID BROWN TRACTOR, SET SELECTOR DIAL POINTER TO HEIGHT CONTROL.

FRONT FLAIL

The flail has vertical and horizontal adjustment and should be set to clear the tops prior to lifting.

Note: CARE MUST BE TAKEN NOT TO KNOCK HIGH BEET UP OUT OF THE GROUND.

LIFTER WHEEL SHIMS FOR WIDTH ADJUSTMENT

The width of the lifter wheels can be adjusted by removing or adding wheel shims. Normal working width at narrowest point, approximately 1.1/2".

DISCHARGE ELEVATOR DRIVE CHAIN

The elevator chain drive and links (A) are adjusted in conjunction with each other i.e. if links (A) are slack and chain is taut the solution is to remove link (A) and make the necessary slight adjustment with setscrews (B) situated on either side of the elevator.

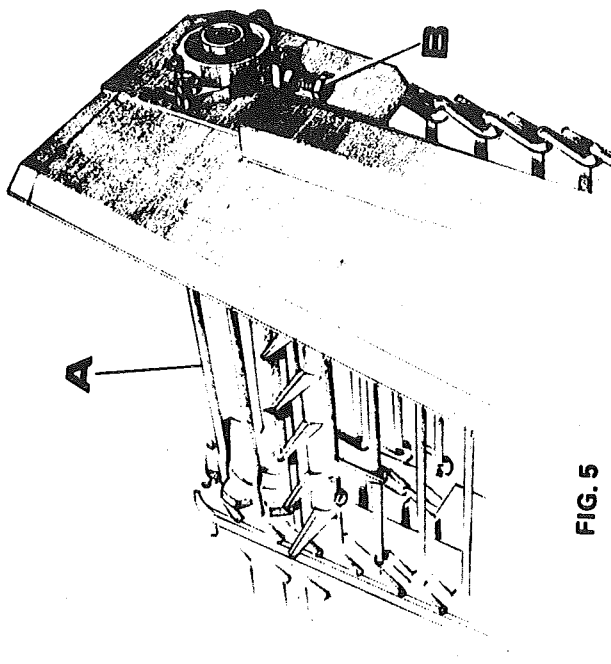


FIG. 5

REAR ELEVATION

Normal cleaning is done in rear elevator by movement of idler rollers at (A) and (B). If the beet are clean Roller 'A' should be in the lower holes and Roller (B) in upper holes to bring elevator links closer together.

For cleaning the beet the reverse of this procedure is carried out. Inner track frame (C) to be raised for dirty conditions and lowered for clean conditions.

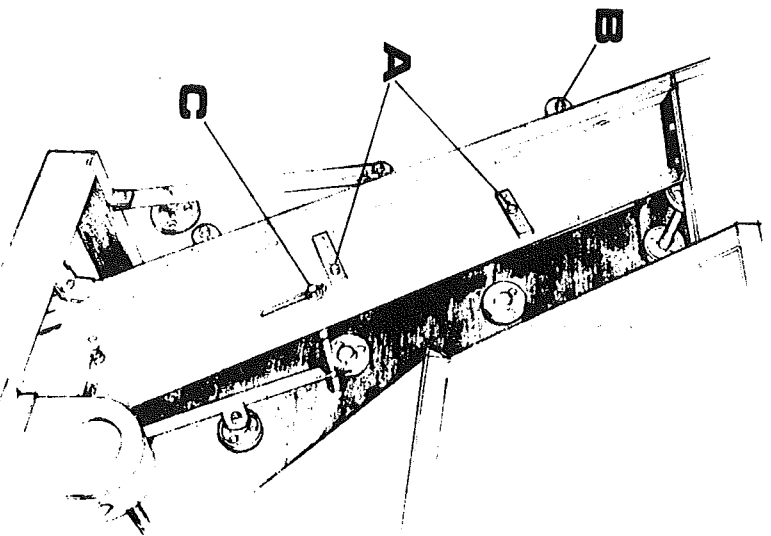


FIG. 6

MAIN WEB

Where more cleaning of the beet is required the idler rollers in the main web may be replaced by agitators and main web rear sprockets can be adjusted to forward holes to give extra clearance.

DRIVE TO HARVESTING MECHANISM

Drive is taken from the tractor P.T.O. shaft. This is put in and out of gear in the normal way by use of the tractor P.T.O. gear lever. Drive to input elevator-to-tank and the discharge elevator is by the use of vee belts. These belts are put in and out of gear by gently engaging and disengaging two levers on the quadrant fitted to the seating platform on the right hand side of the auxiliary seat.

LAND SPEED

Land speed is controlled by using the tractor gearbox and throttle setting. Speed of the tractor should be varied to that best suited for each operating condition.

CYCLONE WHEEL ADJUSTMENTS

Extra clearing can be obtained by lowering cyclone wheel below bottom of cage (A) to give extra clearance for stones and soil.

This is done by releasing clamps on underside of Cyclone wheel (C) setting to required position and retightening clamp bolt.

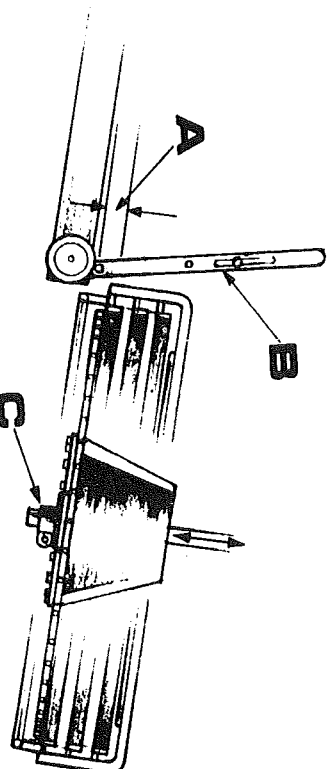


FIG. 7

LIFTER WHEEL TOP TRACK

This is situated between the two lifter wheels and its purpose is to take the beet from the lifter wheel to the cyclone wheel. Adjustment is provided (at A) for lowering or raising as required for large or small beet.

The top track frame is spring loaded to keep chain at correct tension and if any further adjustment is required links may be removed.

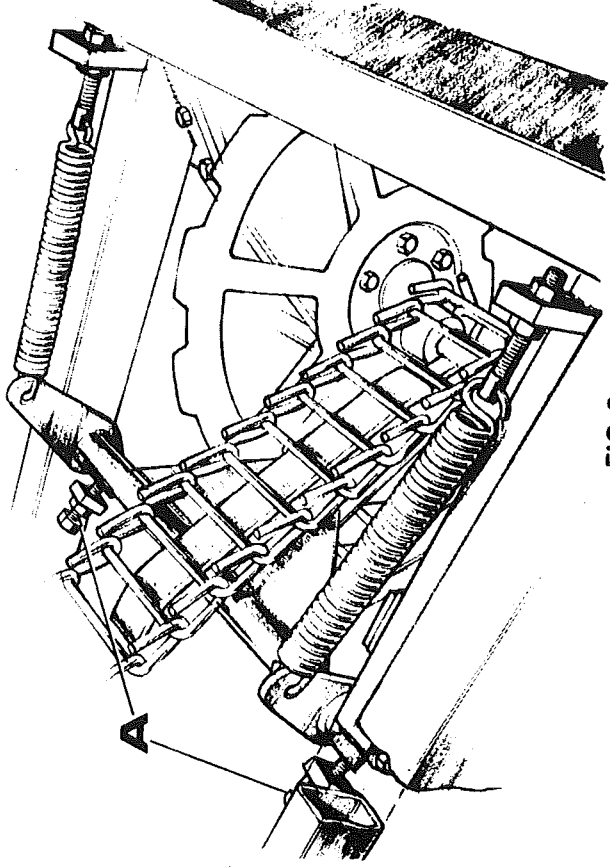


FIG. 8

FIVE FRICTION CLUTCHES

Five friction clutches are provided, situated in

1. Main Web drive
2. Rear Elevator drive
3. Power-driven lifter wheel
4. Topping Unit clutch
5. Cyclone wheel clutch

These must be correctly adjusted to prevent damage to the machine when meeting obstructions. It is therefore vitally important that they are not over-tightened.

LUBRICATION

Regular lubrication prolongs the harvester's life but be careful not to over grease the sealed-type bearings. Special attention should be paid to bearings in physical contact with the soil. Also Hardy Spicer sliding tubes and top track sliding tubes should be kept well greased.

LIFTER WHEEL HUB BEARING ADJUSTMENTS

PLEASE NOTE

Great care should be taken not to over-tighten Lifter Wheel Hub Bearings. They should be tightened right up, while the Shaft is being slowly rotated, by hand then slackened off by one castoration on the Retaining Nut, before being secured by Split Pin.

REMEMBER

Always keep the harvest **MOVING** at a **SUITABLE** speed for existing soil conditions.

MAKE ADJUSTMENTS at the **END** of the row and allow the harvester to settle in its new settings before readjusting. **MAKE SURE** that the **FLAIL** just brushes the loose earth.

ALWAYS use a **SHARP** topping knife. **DISENGAGE** harvester main 'V' Belt Drive when **TURNING** at the headland.

NEVER REVERSE unless the harvester is in the 'RAISED' position.

At the beginning of the season **CHECK** all bolts for **TIGHTNESS** before and after the first day's work.

CHECK tyre pressure **DAILY**.

CHECK all wheel and rim bolts **DAILY**.

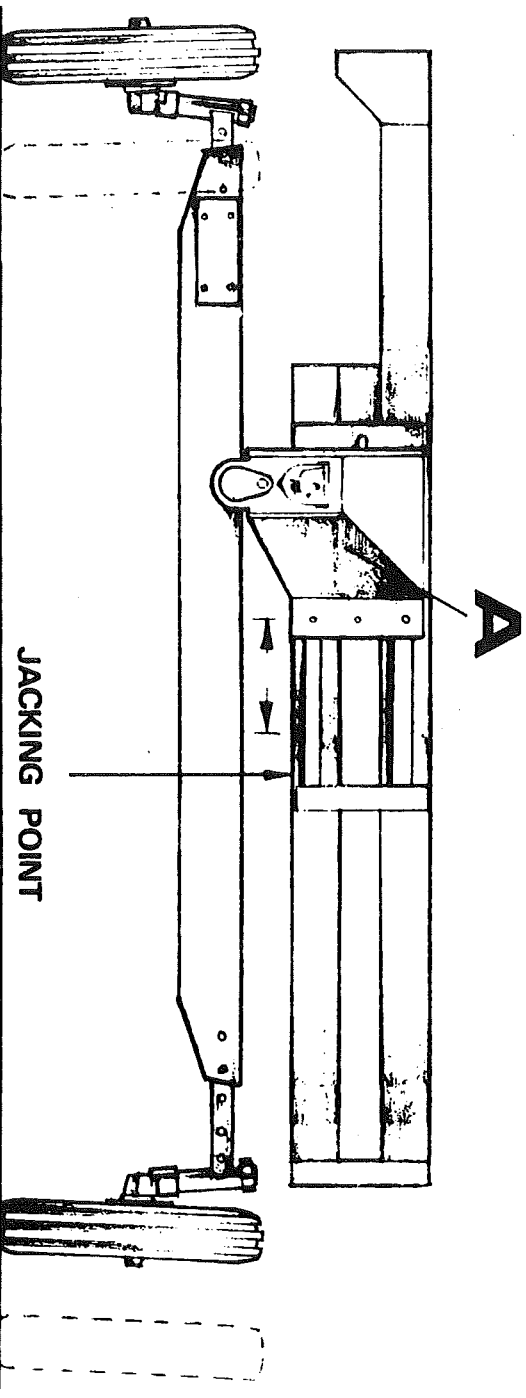
ALWAYS USE GENUINE STANDEN BEET HARVESTER SPARE PARTS.

ALWAYS quote the **PART NUMBER** and **DESCRIPTION** when ordering **SPARE PARTS**.

ADJUSTMENT OF STEERING HEAD

The steering head (A) can be adjusted laterally for transportation purposes. This is done by removing the fixing bolts and loosening (but not removing) the two bolts in the steering head mounting plate slot. The steering head, together with the front axle, will then slide across to the required position. The bolts must then be replaced and retightened.

Note: Please make sure that the tractor handbrake is firmly applied before jacking up at the point shown in the illustration.



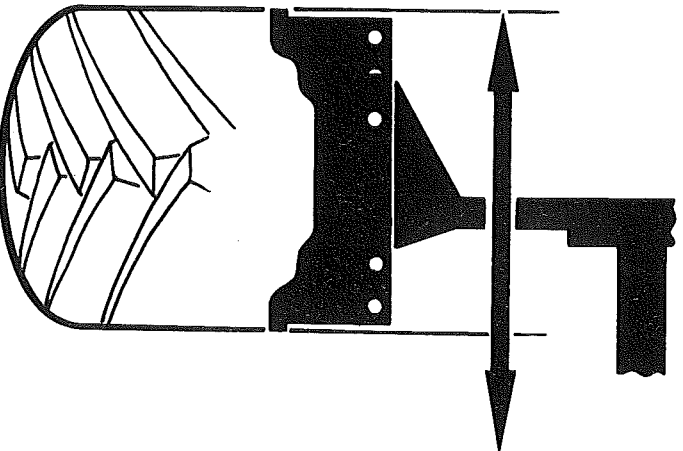
FRONT AXLE IN WORKING POSITION

FIG. 9

WHEEL SETTINGS (MK IV)

VIEWED FROM REAR OF MACHINE

LH WHEEL

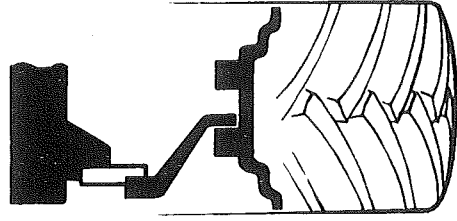


Note:

Continuous adjustment via slots in the wheel centre and adjusting holes in the rim.

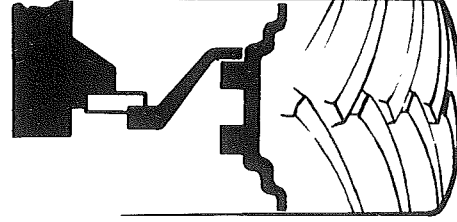
WHEEL SETTINGS (MK III)

VIEWED FROM REAR OF MACHINE

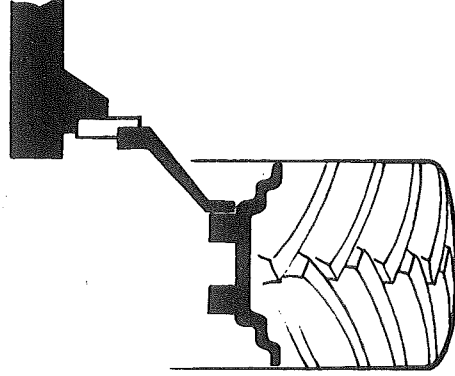


18" & 24"
ROWS
(475 & 610)
mm

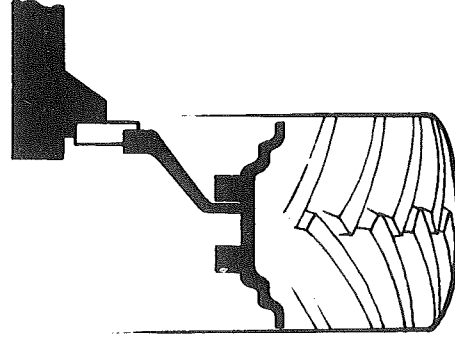
LH WHEELS



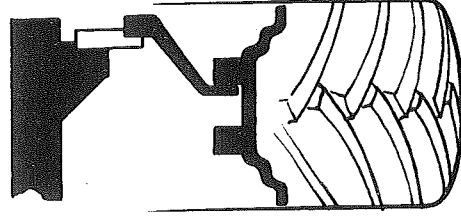
(19")
ROWS
(483mm)



21"
ROWS
(533mm)



20"
ROWS
(508mm)



NOTE

R.H. WHEEL NORMALLY REMAINS AT THE ORIGINAL SETTING, BUT CAN BE MOVED OUTBOARD TO REDUCE THE POSSIBILITY OF STONES JAMMING BETWEEN TYRE AND CHAIN GUARD.
RH WHEELS

GENERAL SPECIFICATION

SUITABLE POWER UNITS

MF 35X, MF 135, 148 and 240
FORD 3000, 3600
DAVID BROWN 780 and 885
INTERNATIONAL 454

MAIN DRIVE

From each side of Power Units Hub to
Harvester rear axle, via sprockets and 1.5" pitch roller chain.

NOTE: Sprocket Reduction 20 : 32

WHEELS

FRONT, STEERED

Tyre size and ply rating 6.00 x 16 – 6 ply.
Track Width (centre to centre) min - 5' 6" (1.7m)
max - 7' 6" (2.3m)

Adjustment – in 2" (51mm) steps by extending

front axle
Tyre Pressure (nom.) – 35lb/in² (2.46kg/cm²)

REAR, DRIVEN

Tyre size and ply rating 11 x 32 – 6 ply
Track Width (centre to centre) min - 6' 10" (2.1m)
max - 8' 10" (2.7m)

Adjustment – in 2" (51mm) steps by off-setting
rims and reversing wheel centres.

Tyre Pressure (nom.) – 28lb/in² (1.96kg/cm²)

Front & Rear

WHEEL BASE

12' 4" (3.8m)

TANK CAPACITY

Capacity 2 Tons 2 Cwt. (2133 Kilos)
Cubic Capacity (approx.) 134 ft.³ (3509 Litres)

CYCLONE WHEEL

Number of tines – 44

SPEED

Rotational – 58 Rev/min. Note. At P.T.O.
Peripheral – 691ft/min. (3.5 m/s) speed of 444 rpm.

CYCLONE MK IV

specification as above except:

WHEELS

REAR DRIVEN

Tyre size and ply rating 14 x 26 – 8 ply
Track Width (centre to centre) 7' 3" to 8' (2.2m - 2.4m)

Adjustment – Continuous from 8' 7" to 9' 5" (2.6m to 2.8m)

Tyre Pressure – 30lb/in² (2.1 kg/cm²)

IN TRANSPORT

Width 8' - 9½" (2.6m)

FLAIL

Number of Flails – 12

SPEED

Rotational – 400 Rev/min. Note. At P.T.O.
Peripheral – 2618ft/min. (13.3m/s) speed of 444 rpm

TURNING SPACE & TURNING CIRCLE

(on concrete surface)

Without Brakes – LH 40' 0" (12.2m)
– RH 43' 6" (13.3m)
With Brakes – LH 37' 10" (11.5m)
– RH 38' 8" (11.8m)

TURNING CIRCLE

Without Brakes – LH 40' 0" (12.2m)
– RH 42' 6" (13.0m)
With Brakes – LH 37' 10" (11.5m)
– RH 37' 8" (11.5m)

WEIGHT – UNLADEN (with full fuel tank)

Left Front Wheel 1099 lb. (499 kg)
Right Front Wheel 1799 lb. (817 kg)
Left Rear Wheel 3864 lb. (1754 kg)
Right Rear Wheel 3906 lb. (1773 kg)
Total 10,668 lb. (4843 kg)

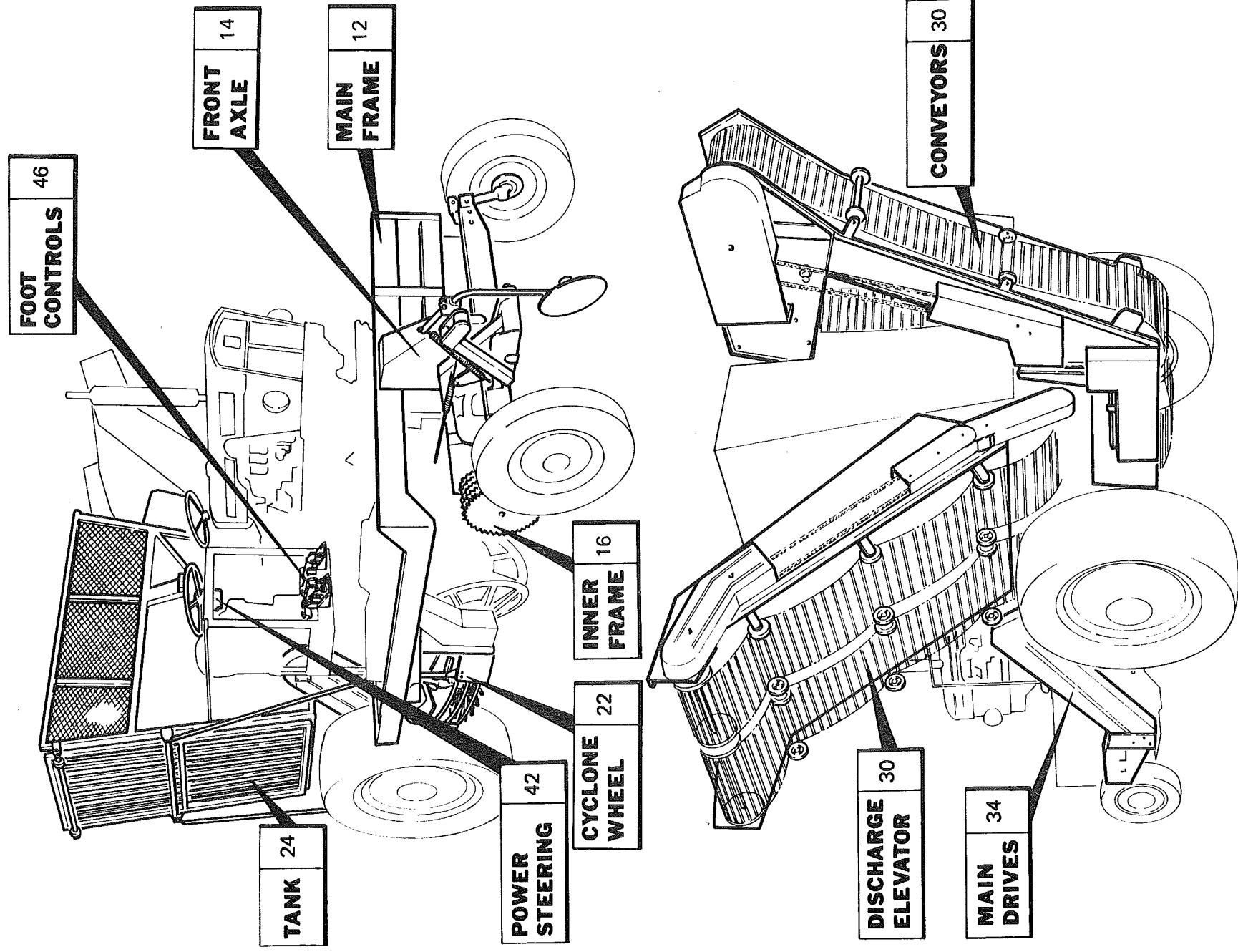
Note: Weights recorded with DB780 Power Unit.

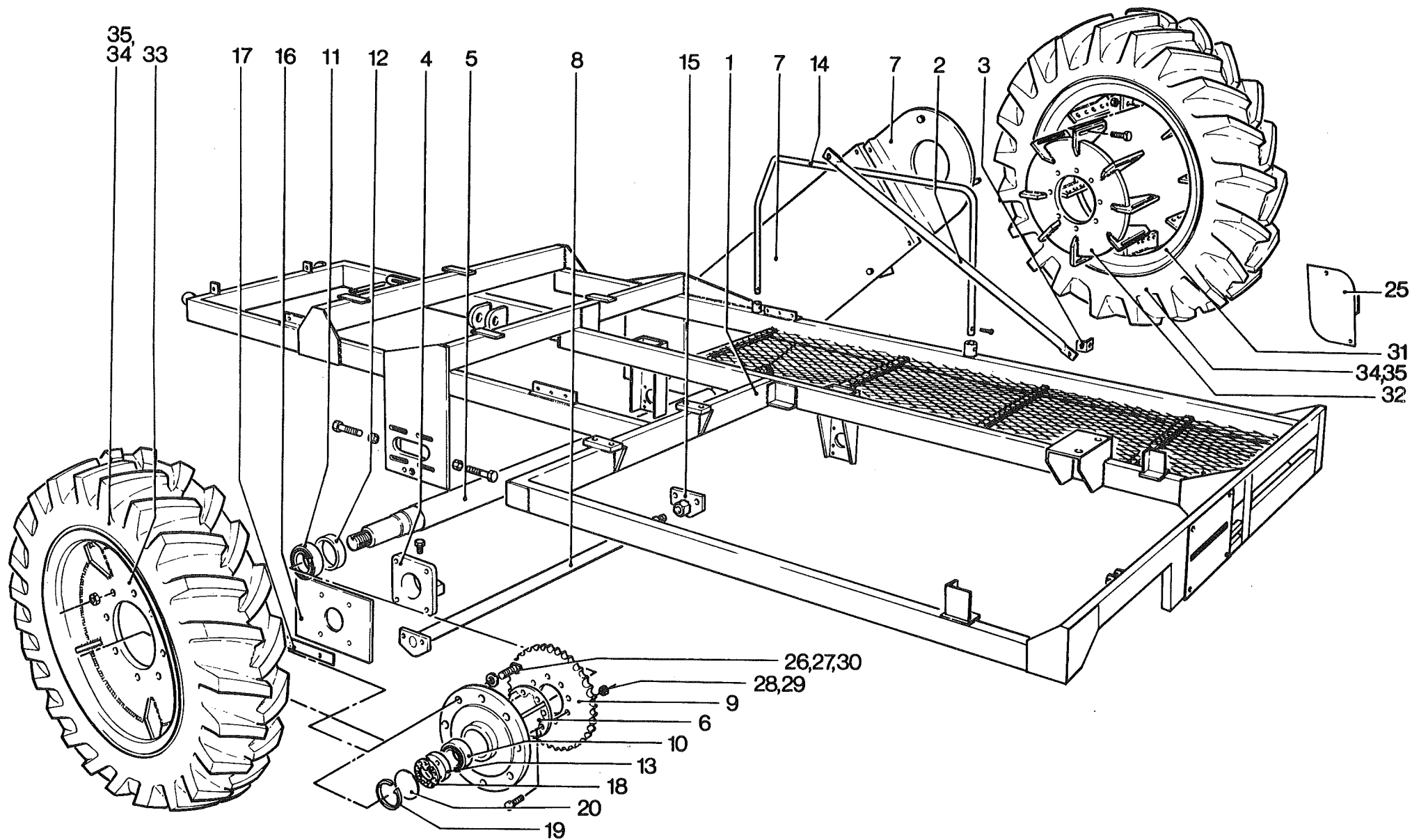
OVERALL DIMENSIONS

IN WORK

– Length 21' 11" (6.7m)
– Width 11' 7" (3.3m)
– Height 11' 3" (3.4m)
– Length 21' 11" (6.7m)
– Width 8' 9" (2.7m)
– Height 10' 9" (3.3m)

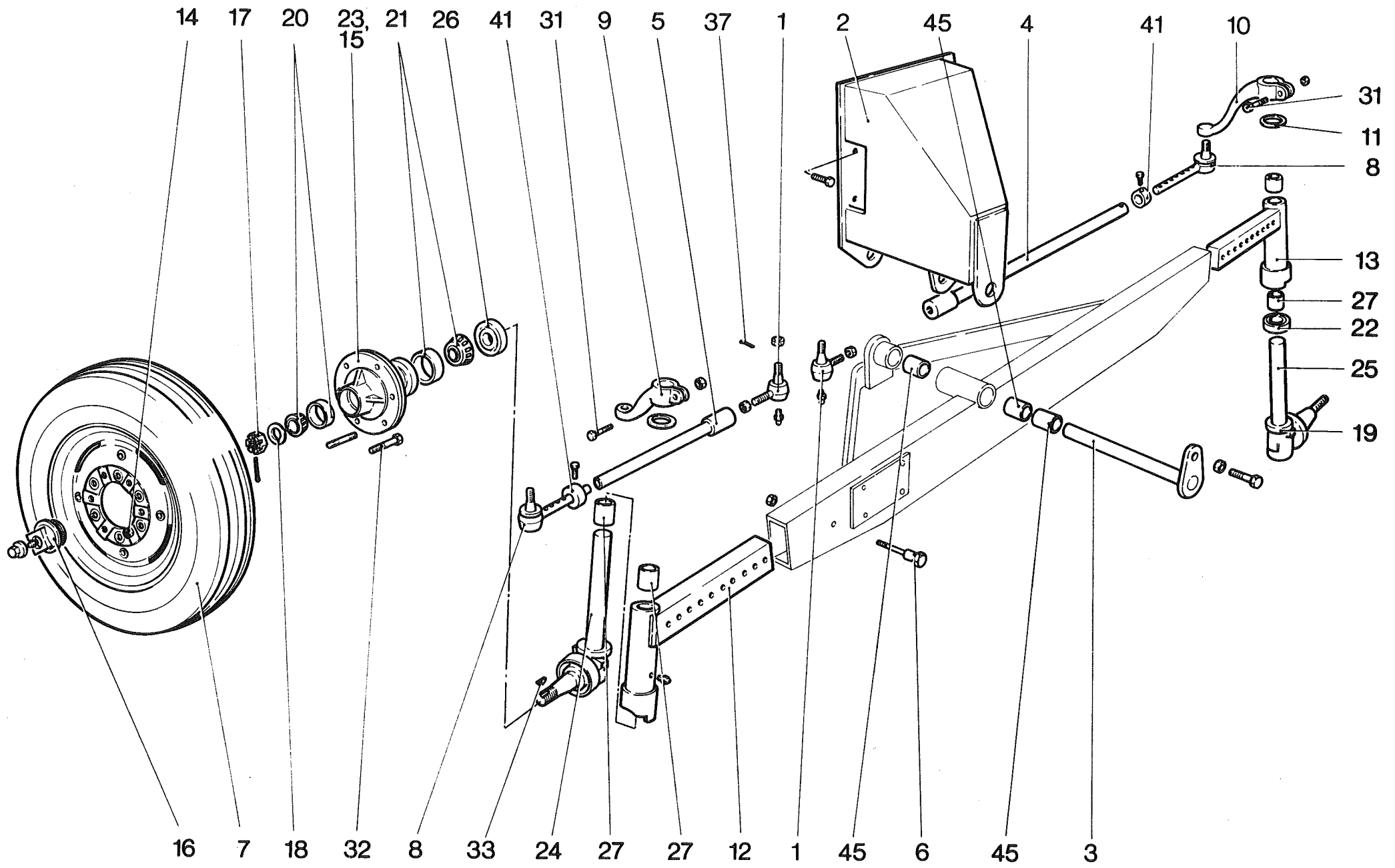
IN TRANSPORT





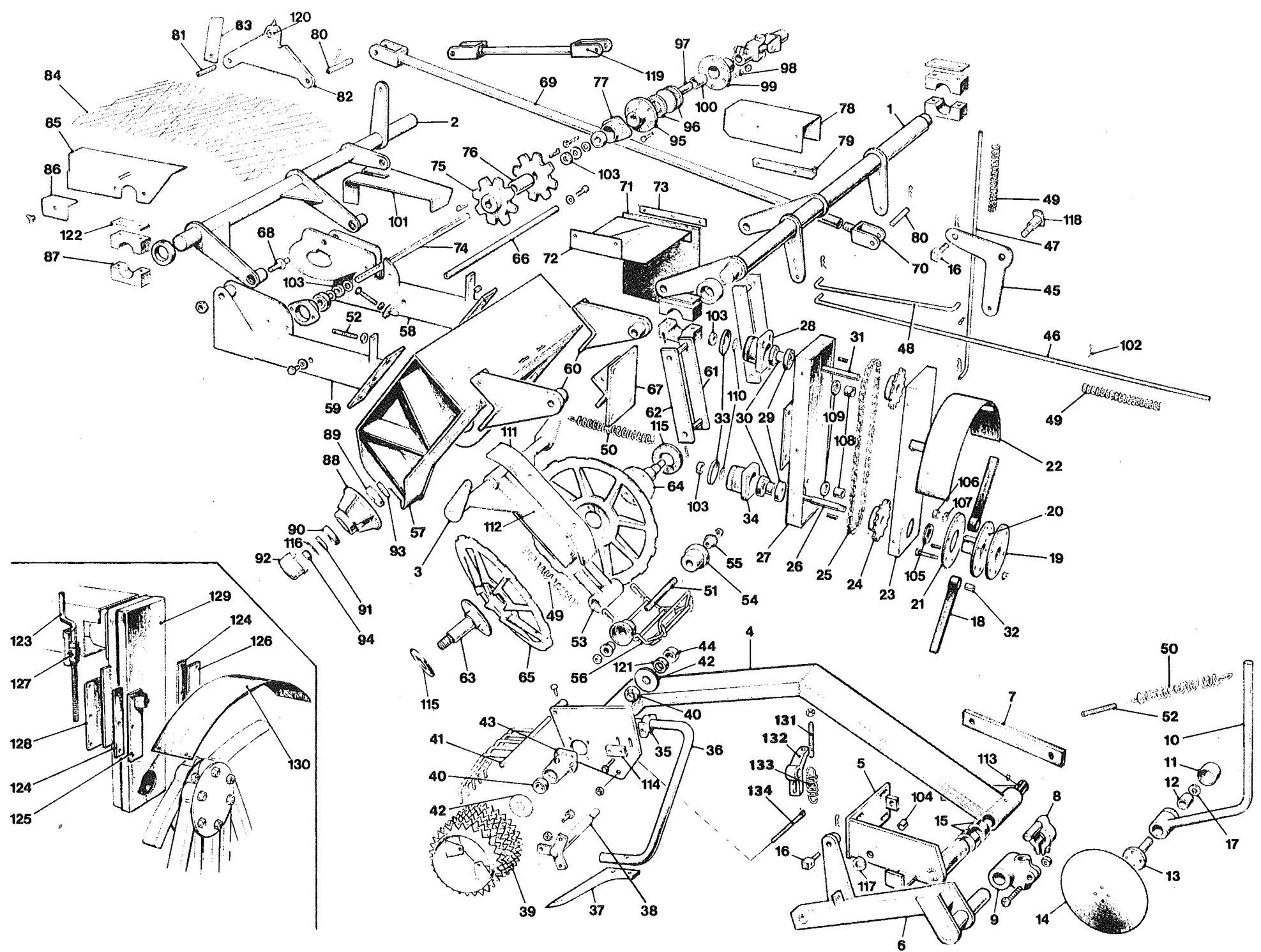
MAIN FRAME

Item No.	Part No.	Description	Qty per Assy	Remarks
1	SPCL1M	Main Frame	1	
2	SPCL175M	Hand Rail to Tractor Support Tube (DB780)	1	
2	SPCL177M	Hand Rail to Tractor Support Tube (FORD, FERG, INT)	1	
3	SPCL176M	Hand Rail to Tractor Support Stay Angle Mtg. (FORD ONLY)	1	
3	SPCL178M	Hand Rail to Tractor Support Stay Angle Mtg. (FERGY ONLY)	1	
4	SP3	Axle Adjusting Bracket	2	
5	SP4	Rear Axle	1	
6	SP5/c	Wheel Hub	2	
7	SP10/L	Cjain Case Back Plates Top & Bottom L.H. (FORD ONLY)	1	
7	SP10/R	Chain Case Back Plates Top & Bottom R.H. (FORD FERG)	1	
7	SP274/L	Chain Case Back Plates Top & Bottom L.H. (DB880)	1	
7	SP274/R	Chain Case Back Plates Top & Bottom R.H. (DB880)	1	
7	SP289/L	Chain Case Back Plates Top & Bottom L.H. (INT. ONLY)	1	
7	SP289/R	Chain Case Back Plates Top & Bottom R.H. (INT. ONLY)	1	
7	SP458/L	Chain Case Back Plates Top & Bottom L.H. (DB780)	1	
7	SP458/R	Chain Case Back Plates Top & Bottom R.H. (DB780)	1	
8	SP17/A/M	Axle Bearing Plate Tie Bar	1	
9	SP18	Main Drive Bottom Drive 32T x 1½ Pitch	2	
10	SP40	Wheel Hub Bearing Outer (3780/3720)	2	
11	SP41	Wheel Hub Bearing Inner 33287/33462	2	
12	SP88/A	Axle Bearing Thrust Collar	2	
13	SP91	Axle Nut	2	
14	SP111/AM	Hand Rail L.H.	1	
15	SP165/M	Tie Bar Nut Plate	1	
16	SP176	Axle Sealing Plate	2	
17	SP187	Locking Strip	4	
18	SP217	Axle Nut Locking Washer	2	
19	SP220	Wheel Hub Circlip	2	
20	SP229	Wheel Hub Sealing Plate	2	
21				
22				
23				
24				
25	SP263	Fan Belt Guard	1	
26	SP440	Wheel Stud ¾ UNF	16	
27	SP441	Wheel Nut ¾ UNF	16	
28	GS118	Sprocket Bolt 2¼ x UNF HT	16	
29	GS303	Sprocket Nut (Self Locking) Bore Flat Washer	16	
30		Adjustable Rim	1	
31	SPCL533	Adjustable Wheel Rim	1	
32	SPCL534	Fixed Wheel Rim	1	
33	SPCL535	Tyre 16.9 x 26	2	
34	SPCL574	Tube 16.9/1.4 x 26	2	
35	SPCL575			



FRONT AXLE

Item No.	Part No.	Description	Qty per Assy	Remarks
1	SP127	Track Rod End Joint	2	
2	SP310M	Steering Head	1	
3	SP311M	Front Axle Pivot Pin	1	
4	SP318L/M	Track Rod L.H.	1	
5	SP319R/M	Track Rod R.H.	1	
6	SP320C	Adjusting Leg Bolt	4	
7	SP321	Front Wheel	2	
	SP321/A	Tyre	2	
	SP321/B	Tube	2	
	SP321/C	Centre	2	
8	SP322	Track Rod End	2	
9	SP325	Control Arm R.H.	1	
10	SP326	Control Arm L.H.	1	
11	SP327	Felt Oil Seal	2	
12	SP328	Adjusting Leg R.H.	1	
13	SP329	Adjusting Leg L.H.	1	
14	SP330	Wheel Nut	12	
15	SP331	Hub Stud	12	
16	SP332	End Cap	2	
17	SP333	Castle Nut	2	
18	SP334	Lock Washer	2	
19	SP335	End Disc	2	
20	SP336	Outer Taper Bearing Fronting	2	
21	SP337	Inner Taper Bearing Fronting	2	
22	SP338	Thrust Bearing	2	
23	SP339	Wheel Hub Front	2	
24	SP340	Stub Axle R.H.	1	
25	SP341	Stub Axle L.H.	1	
26	SP342	Oil Seal	2	
27	SP502	Bush	4	
28				
29				
30				
31	GS131	Locking Bolt 3/4" x "UNF	2	
32	GS216/1	1/2" x 1 1/2" UNF HT Setscrew	12	
33	GS432	Woodruff Key " x 1 1/2"	2	
34				
35				
36				
37	H105/A	Track Rod end Spring Pin	2	
38				
39				
40				
41	PS488M	Locking Collar	2	
42				
43				
44				
45	RH43M	Bush	3	

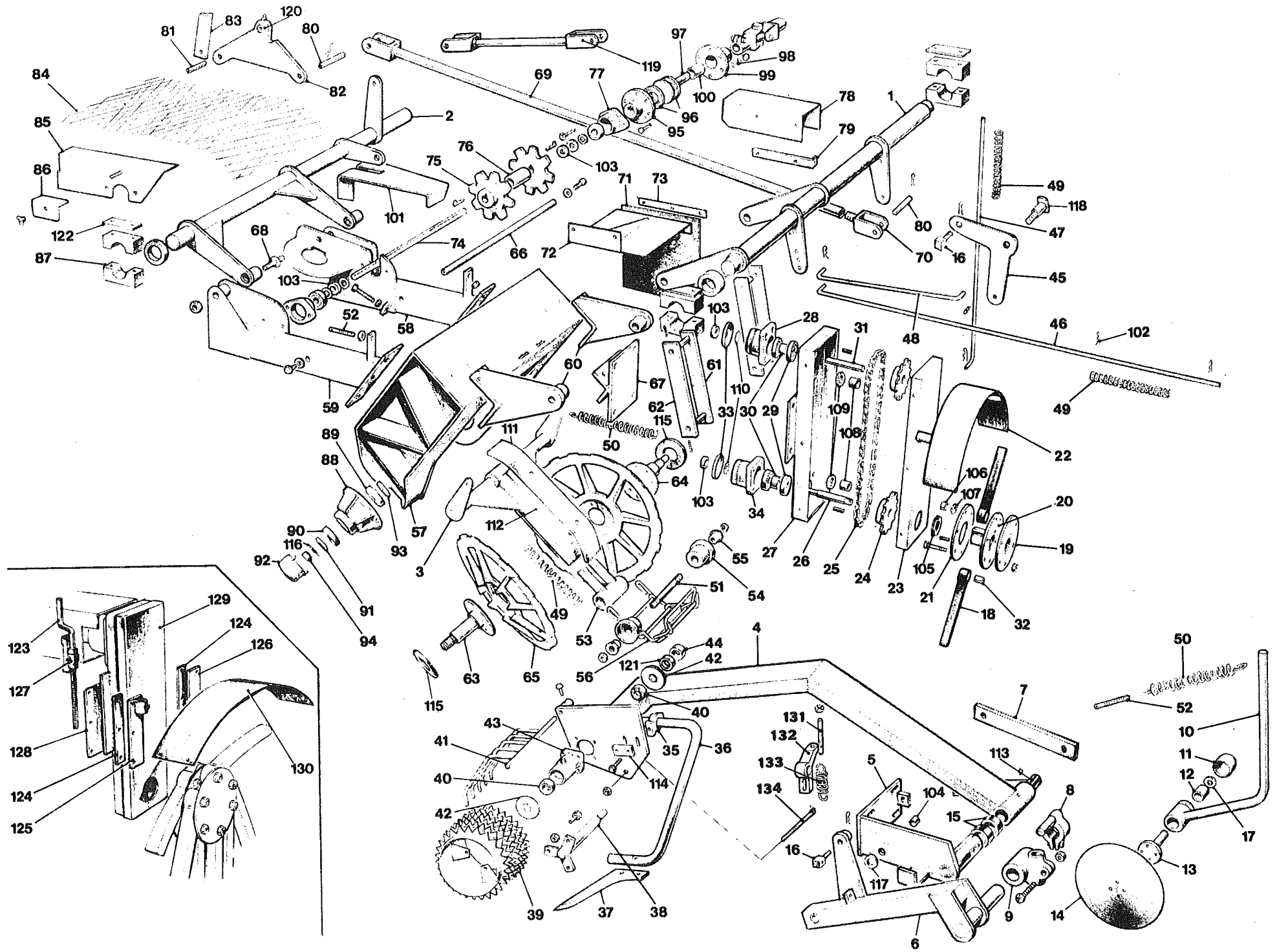


INNER FRAME

Item No.	Part No.	Description	Qty per Assy	Remarks
1	SPCL3M	Lifter Wheel Mtg. Lift Shaft Front	1	Replaced by SPCL 676 on later machines.
2	SPCL4M	Lifter Wheel Mtg. Lift Shaft Rear	1	
3	SPCL5/AM	Lifter Wheel Top Track Frame	2	
4	SPCL6M	Topping Unit Frame	1	
5	SPCL45BM	Topping Unit & Disc Mounting	1	
6	SPCL46M	Disc Coultur & Stalk Mounting	1	
7	SPCL47BM	Topping Unit & Disc Mounting Brace	1	
8	BM214	Stop Collar	1	Replaced by SPCL 594 on later machines.
9	BM20/A	Disc Coultur Stalk Bracket	1	
10	SPCL48	Disc Coultur Stalk	1	
11	BMT81M	Dust Cap	1	
12	PS386M	Nylon Bush	2	
13	PS596A/M	Disc Coultur Spindle	1	
14	PS224	Disc Coultur	1	
15	PS353	Collar	2	
16	SP112	T.U. Lift Trunnion	2	
17	PS588	Disc Coultur Oil Seal	1	
18	SP245	Flail Rubbers	12	
19	TBMW69	Flail Front Plate	1	
20	SPCL73M	Flail Centre Plate	1	
21	RP15	Flail Rear Plate	1	
22	SPCT185	Flail Guard	1	
23	SPCL72	Flail Chain Case Lid	1	
24	SP233M	Flail Drive Sprockets 15T	2	
25	PS666/67	Flail Drive Chain 67 Links	2	
26	SP252M	Flail Plate Shaft	1	
27	SPCT184	Flail Chain Case	1	
28	VRT23M	Bearing Housing	1	
29	6306RS	Bearing	4	
30	C33	Bearing Housing Plastic Spacer	2	
31	SP214M	Flail Counter Shaft	1	
32	SP253	Flail Plate Tube Spacer	12	
33	PT50M	Bearing Housing Dust Cap	2	
34	SP44M	Bearing Housing	1	
35	PS1002/AM	Topping Unit Knife Arm Bracket	1	
36	SPCL125	Topping Unit Knife Arm	1	
37	PS1001/LH	Topping Unit Knife (Left Hand)	1	
38	SPCT119M	Topping Lightweight Feeler Wheel Shaft	1	
39	SPCT118	Topping Unit Lightweight Feeler Wheel	1	
40	6207RS	Topping Unit Lightweight Feeler Wheel Bearing	2	
41	SPCL113/A	Feeler Wheel Cleaner	1	
42	SPCL97	Flat Washer	1	
43	SPCT121	Lightweight Feeler Wheel Bearing Housing	1	
44	SPCT117	Lightweight Feeler Wheel Shaft Spacer	1	
45	SPCL7M	Topping Unit Lifting Segment	1	
46	SPCL49	Disc Coultur Lifting Rod	1	
47	BM75B	Topping Unit Lifting Rod	1	
48	SPCL44	Topping Unit Lifting Link	1	
49	PS165	Lift Rod Springs 9" Ig.	4	
50	PS194	Spring	3	
51	SPCL23M	Top Track Sliding Roller Mtg. Tie Bar	1	
52	BM212M&AM	Top Track Spring Tensioner	2	
53	SPCL21AM	Top Track Sliding Roller Mounting	1	
54	SPCL274	Top Track Bottom Rollers	2	
55	BM125/1	Top Track Bottom Roller Bush	2	
56	SPCL55	Top Track Links 7" Ig.	27	
57	SPCL13	Lifter Wheel Fork	1	
58	SPCL14/A	Lifter Wheel Fork Side Member L.H.	1	
59	SPCL15	Lifter Wheel Fork Side Member R.H.	1	
60	SPCL16	Lifter Wheel Fork Mounting Brackets	1pr	
61	SPCL17M	Lifter Wheel Fork Lift Links - Inner	2	
62	SPCL18M	Lifter Wheel Fork Lift Links - Outer	2	
63	SPCL41/A	Lifter Wheel Spindle	1	
64	SPCL42/AM	Lifter Wheel Spindle (with spigot)	1	
65	RP1	Lifting Wheel Plain (RP1/B Lifting Wheel, cut away)	2	
66	SPCL22M	Lifting Wheel Top Track Pivot Tie Bar	1	
67	SPCT183	Flail Chain Case Mtg. Bracket	1	
68	SPCL19/AM	Lifting Wheel Fork Rear Lift Shaft Pivot Pins	2	
69	SPCL109	Lift Shaft Connecting Rod	1	
70	SPCL110	Lift Shaft Connecting Rod 'U' Shackle	1	

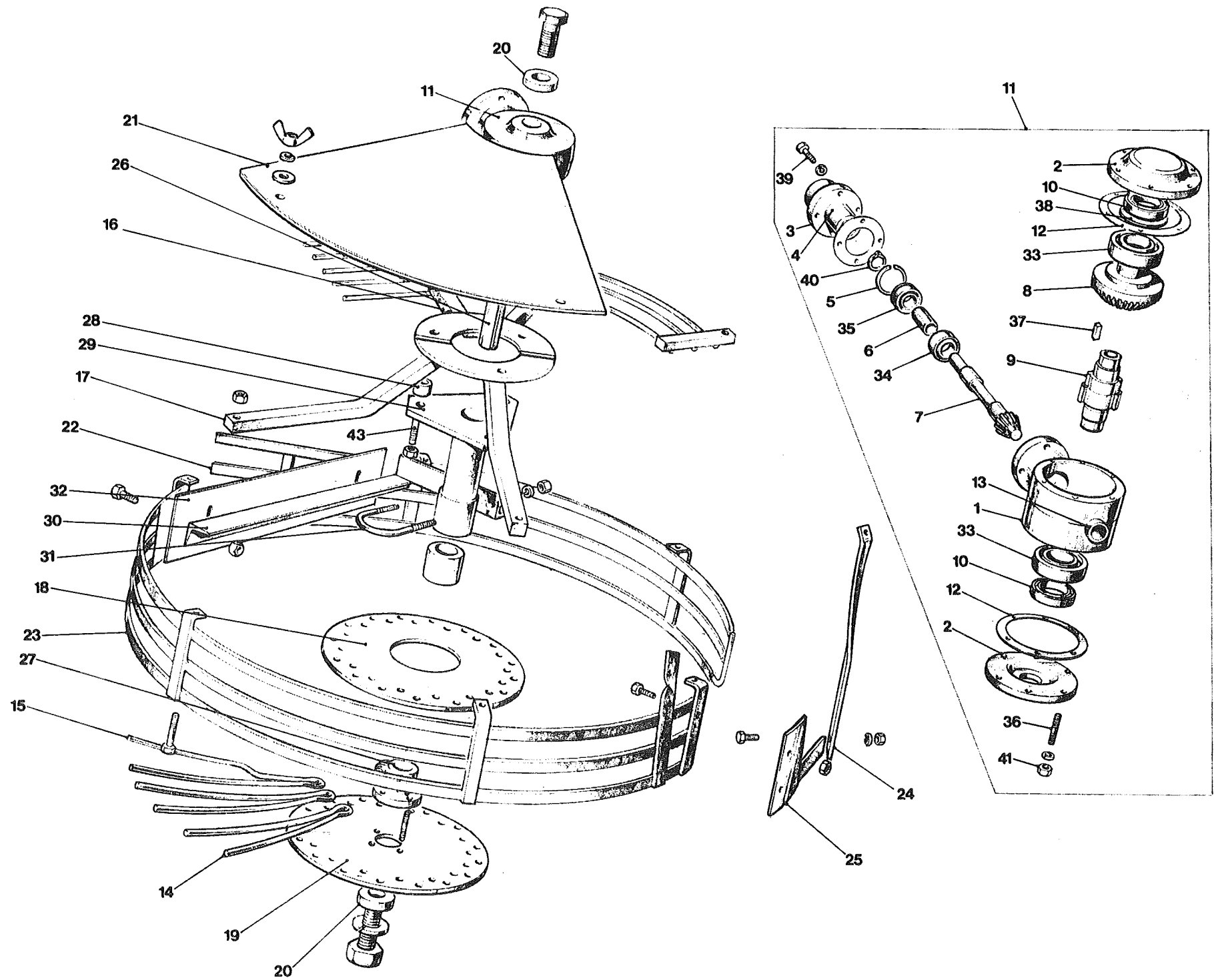
INNER FRAME

Item No.	Part No.	Description	Qty per Assy	Remarks
71	SP193	Rubber Flap	1	
72	SPCL531	Flail Tops Deflector Plate	1	
73	SPCL150	Flail Tops Deflector Flap Clamp Strip	1	
74	SPCL124M	Top Track Frame Shaft	1	
75	TBMW162	Top Track Web Sprocket	2	
76	C64	Top Track Web Sprocket Spacer	1	
77	SFT30A	Flange Bearing	2	
78	SP223	Flail Drive Front Coupling Guard	1	
79	SP429	Guard Bracket	2	
80	SPCL120M	Lift Shaft Connecting Rod Pins	2	
81	SPCL121M	Tractor Lifting Segment Pin	1	
82	SPCL260AM	Tractor Lift Segment (Ferg.)	1	
	SPCL261M	Tractor Lift Segment Support Brkt. (Ferg.)*	1	
	SPCL262M	Tractor Lift Segment (Int. 414,434)*	1	
	SPCL262M	Tractor Lift Segment (DB780,880)*	1	
	SPCL181M	Tractor Lift Segment (Ford 3000, Dexta)*	1	
	SPCL182M	Tractor Lift Segment (Shoulder Bolt) (Ford 3000, Dexta)*	1	
83	SPCL100M	Tractor Lift Link (for Ferg. 135)	2	
	SPCL101M	Tractor Lift Link (for Ferg. 35 & Ford Dexta)	2	
	SPCL102M	Tractor Lift Link (for Ford 3000)	2	
Not illus.	SPCL104M	Tractor Lift Link (for DB780)	2	
	SPCL105M	Tractor Lift Link (for Int.434 & 414)	2	
84	SPCL114	Lifter Wheel Top Track Wire Mesh Guard	1	
85	SPCL115M	Wire Mesh Guard Side Plate R.H.	1	
	SPCL115/AM	Wire Mesh Guard Side Plate L.H.	1	
86	SPCL116	Wire Mesh Guard Quick Release Plate L/R	1 Pr	
87	SPCT132	Lifter Wheel Lift Shaft Front & Rear Bearings	4 Pr	
88	SPCL40/A	Lifter Wheel Hubs	2	
89	SPCL231	Lifter Wheel Hubs Bearing complete (inner)	2	
90	RP4	Lifter Wheel Hubs Bearing complete (outer)	2	
91	RP5	Lifter Wheel Hubs Oil Seal (outer) L.H. side only	1	
92	SPCL58	Lifter Wheel Hub Cap R.H.	1	
	SPCL59	Lifter Wheel Hub Cap L.H. (not shown)	1	
93	SPCL232	Lifter Wheel Hub Oil Seal (inner)	2	
94	RP6/1	Lifter Wheel Spindle Nut 1½ Dia. Whit (R.H.)	1	
94	SPCL108	Lifter Wheel Spindle Nut 1½ Dia. Whit (L.H.) (not shown)	1	
95	SPCL239M	Top Track Clutch Plate inner	1	
96	BMZ118A	Ferodo Discs 4½" o/d	2	
97	SPCL238M	Top Track Clutch Centre Spigot	1	
98	RH149	Clutch Springs	6	
99	SPCL240M	Top Track Clutch Plate outer	1	
100	PS441/NM	Bush, Nylon	1	
101	SPCL156	Top Track Clutch Guard	1	
102	H105	Quick Release Pin	9	
103	PS326M	Collar	4	
104	PS488M	Collar	1	
105	PS445	Oil Seal	1	
106	SP258	Front Flail Shaft Outer Spacer (Black)	1	
107		Locking Washer	1	
108	Discontinued			
109	GS352	1½" x 1/8 Washer	2	
110		1½" x 3/16 Spacer Steel	2	
111	SPCL263M	Top Track Guide Top	1	
112	SPCL264M	Top Track Guide Bottom	1	
113	PS1031M	Bronze Bush Bearing	2	
114	SPCL309	Bracket Clamp Plate	1	
115	SPCL303	Felt Seal	2	
116	GS353	1½" x 2.3/8 Washer	1	
117	PS386M	Bush	1	
118	SPCL513	Shoulder Bolt	1	
119	SPCL505,	Tractor Lifting Segment Lift Link	2	
120	06, 07 SPCT129	Tractor Lift Segment Bush (Ferg.)	1	
		(*Not shown)		



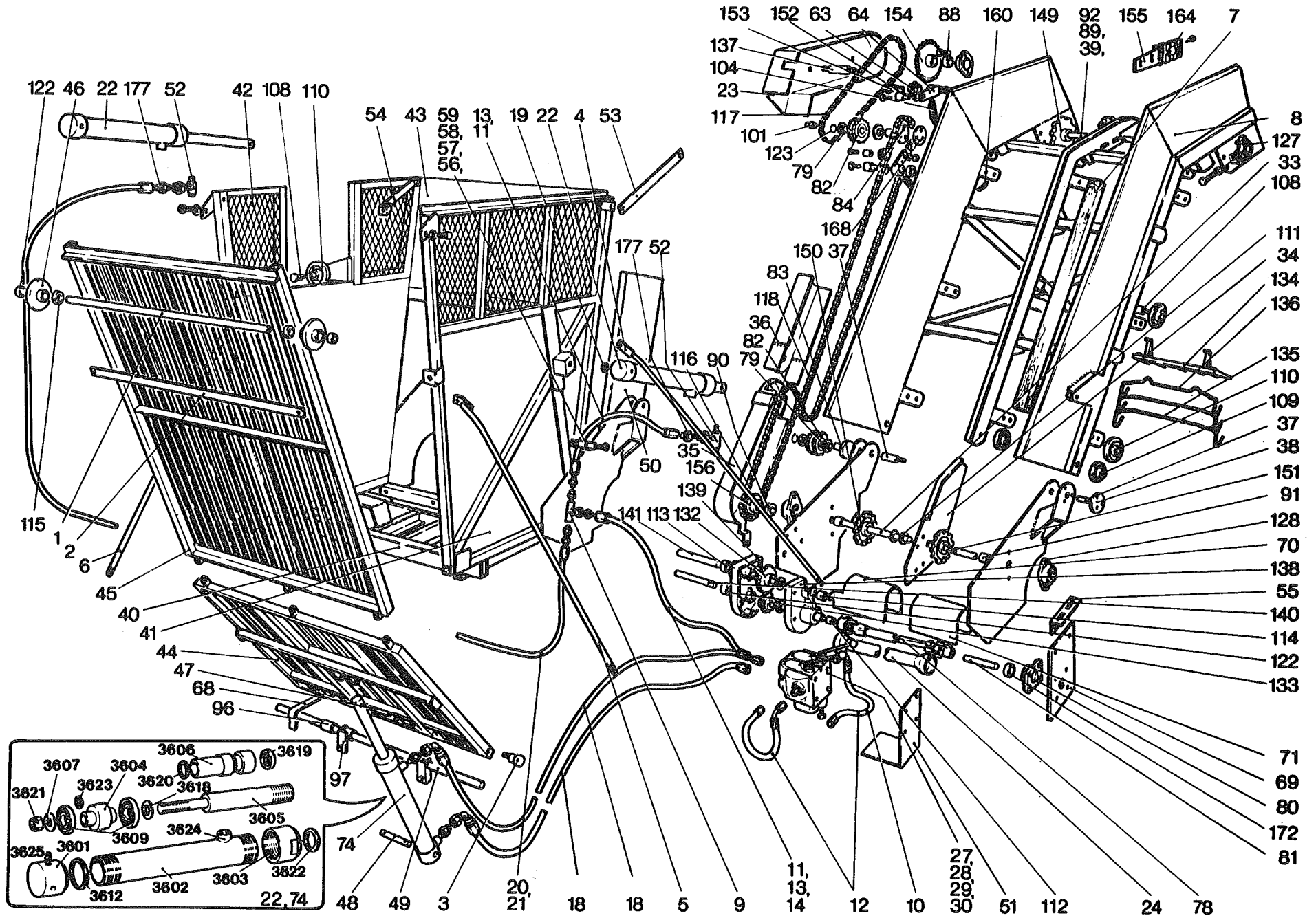
INNER FRAME

Item No.	Part No.	Description	Qty per Assy	Remarks
121	SPCT131	Feeler Wheel Shaft Steel Collar	1	
122	SPCT143	Lift Shaft Bearing Clamp Plate	4	
123	SPCT147	Depth Screw Handle	1	
124	SPCT179	Screw Flail Packing Strip	2	
125	SPCT180	Screw Flail Clamp Plate RH	1	
126	SPCT181	Screw Flail Clamp Plate LH	1	
127	SPCT182	Screw Flail Depth Screw	1	
128	SPCT183	Screw Flail Chain Case Mounting Bracket	1	
129	SPCT184	Screw Flail Chain Case	1	
130	SPCT185	Screw Flail Guard	1	
131	BM82M	Spring Tensioner	1	
132	PS724	Tension Arm	1	
133	PS766	Spring	1	
134	PS815	Spring Support Rod	1	



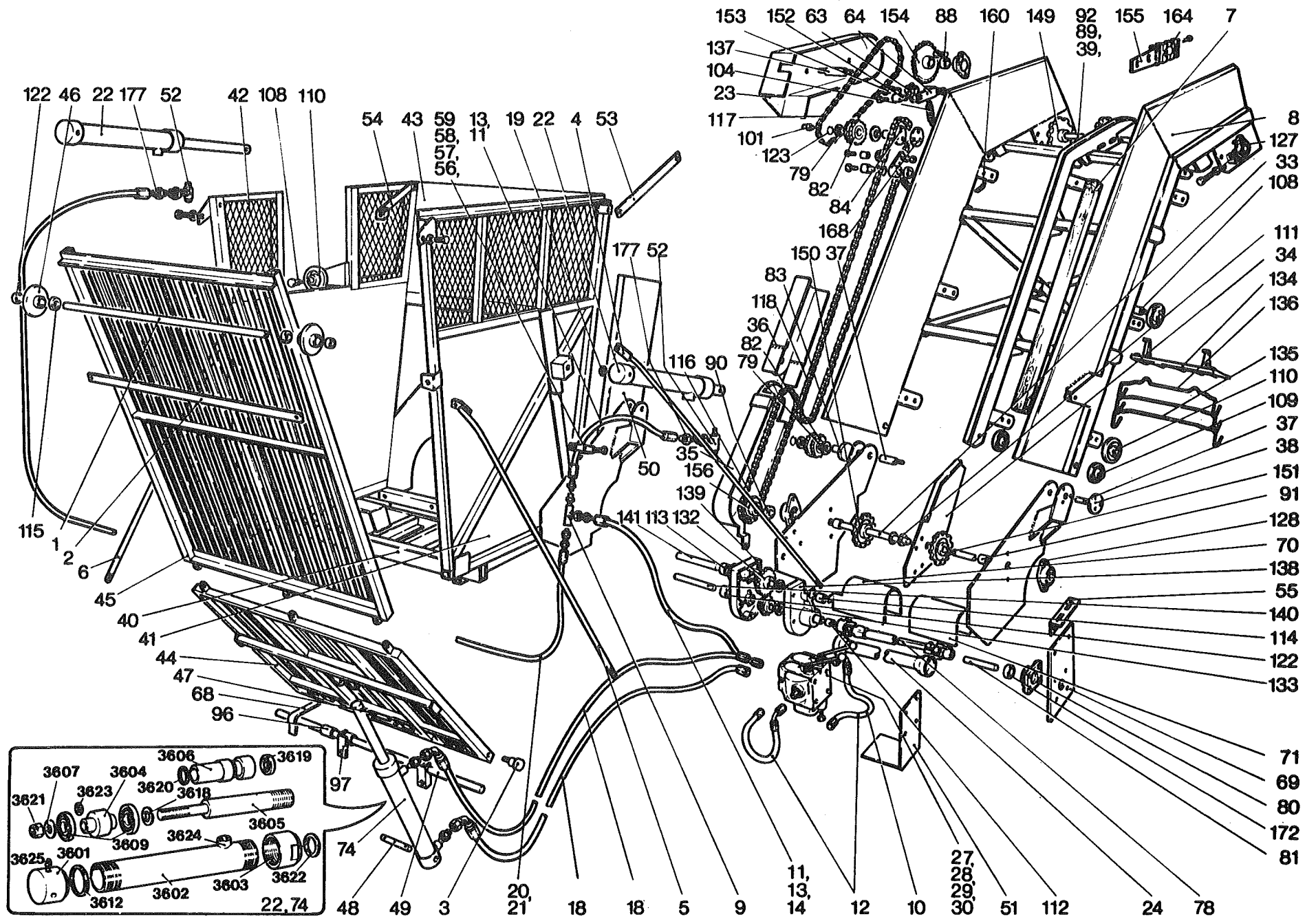
CYCLONE WHEEL

Item No.	Part No.	Description	Qty per Assy	Remarks
1	PS200/2M	Gearbox Housing	1	
2	PS201/2M	Gearbox Side Plate	2	
3	PS202	Tail Shaft End Plate	1	
4	962170A	Tail Shaft Oil Seal	1	
5	PS236	Bearing Circlip	1	
6	PS237	Spacer	1	
7	PS238/231M	Tail Shaft & Bevel Pinion	1	
8	PS232	Bevel Gear	1	
9	PS243M	Tubular Output Shaft	1	
10	PS245	Output Shaft Oil Seal	2	
11	PS450/2TM	Gear Box	1	
12	PS470/A	Side Plate Gasket	2	
13	PS869	Drain Plug	1	
14	SPCL56	Cyclone Wheel Tines — Straight	16	
15	SPCL57	Cyclone Wheel Tines — Cranked	6	
16	SPCL80AM	Cyclone Wheel Support Arms — Inner	1	
17	SPCL81BM	Cyclone Wheel Support Arms — Outer	1	
18	SPCL83M	Cyclone Wheel Tine Clamp Plate — Top	1	
19	SPCL83AM	Cyclone Wheel Tine Clamp Plate — Bottom	1	
20	SPCL86M	Cyclone Wheel Locking Spacers (Top & Bottom)	2	
21	SPCL333M	Cyclone Wheel Outer Guard	1	
22	SPCL334M	Cyclone Wheel Half Cage — Inner	1	
23	SPCL335M	Cyclone Wheel Half Cage — Outer	1	
24	SPCL336M	Cyclone Wheel Cage Stay	1	
25	SPCL337M	Cyclone Wheel Cage Footplate	1	
26	SPCL338AM	Cyclone Wheel Drive Shaft	1	
27	SPCL339M	Cyclone Wheel Clamp Bracket	1	
28	SPCL340M	Drive Shaft Support Bearing Spacer	3	
29	SPCL341M	Drive Shaft Support Bearing	1	
30	SPCL342M	Cyclone Wheel Deflector Arm	1	
31	SPCL343M	Cyclone Wheel Deflector Arm U-Bolt	1	
32	SPCL344	Cyclone Wheel Deflector Arm Plate	1	
33	145	Output Shaft Bearing	2	
34	330	Tail Shaft Bearing	1	
35	330C	Tail Shaft Bearing with Circlip Groove	1	
36		Housing Stud M10 x 50mm	12	
37		RBE Key 5/16 x 1½	1	
38		Side Plate Shim	As req	
39		Tail Shaft setscrew M10 x 30mm Hex HD	4	
40		Tail Shaft Circlip	1	
41		Nut M10	12	
42	PS441/NM	Nylon Bush	1	
43	SPCT115AM	Gearbox Stud	3	
	PS469	Gearbox End Plate Gasket	1	



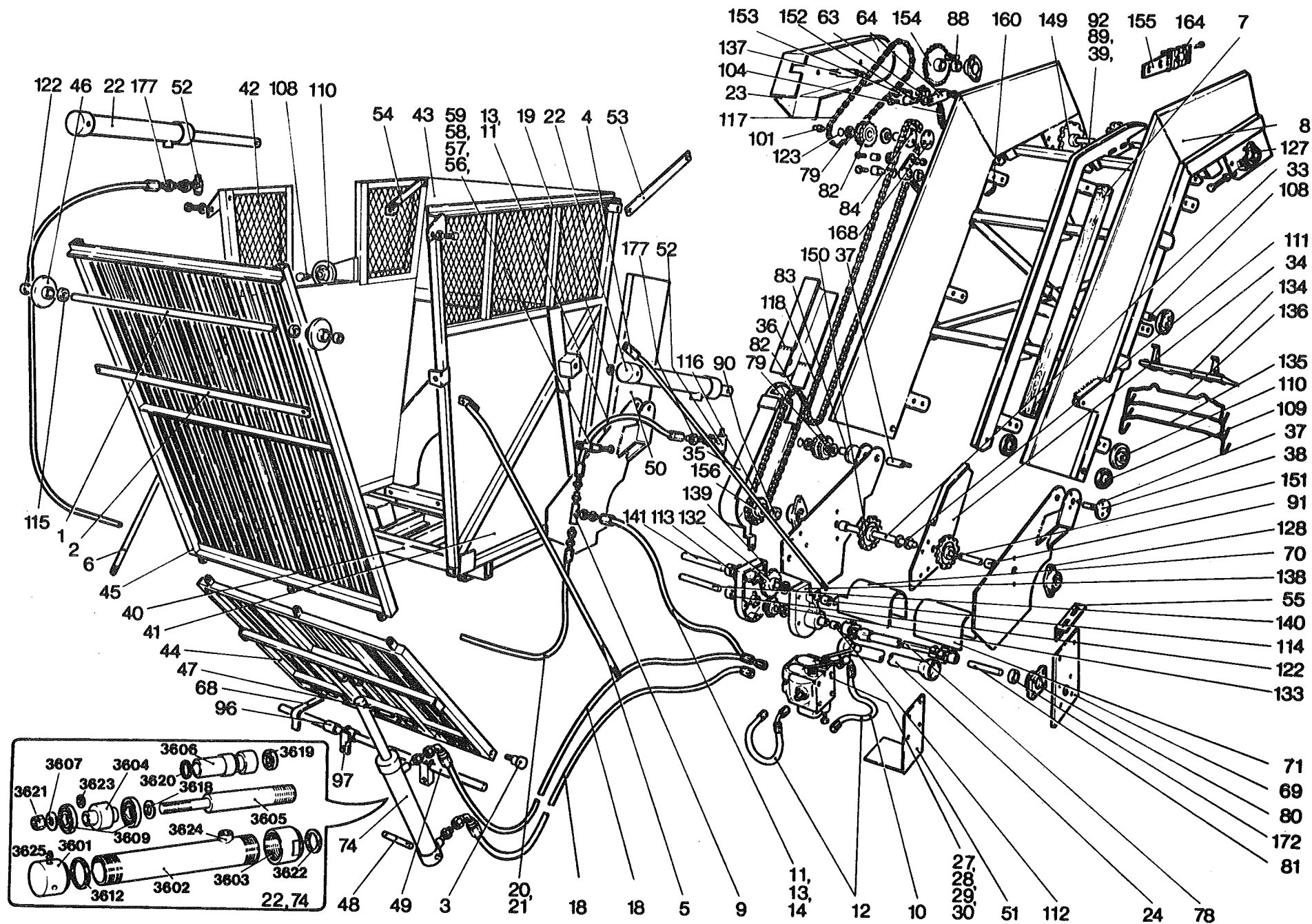
TANK & SIDE ELEVATOR

Item No.	Part No.	Description	Qty per Assy	Remarks
1	SPCL345M	Tank Tie Bar Top	1	
2	SPCL346M	Tank Tie Bar Middle Strap	1	
3	SPCL504	Tank Bottom Pivot Shoulder Bolt	2	
4	SPCL508	Tank Stay L.H. Front	1	
5	SPCL509	Tank Stay R.H. Front	1	
6	SPCL510/11	Tank Stay Rear	2	
7	SPCL541	Discharge Elevator Wood Elevator Frame	4	
8	SPCL542	3/8" T-Junction	1	
9	SPCL597	20" Long, one end straight, one end angled	1	
10	SPCL657	30" Long, Both Ends Straight	As req	DB885 only
11	SPCL658	30" Long, Both Ends Angled	As req	M.F., FORD, INT. only
12	SPCL659	35" Long, Both Ends Straight	As req	M.F., FORD, INT. only
13	SPCL660	48" Long, Both Ends Straight	As Req	DB885 only
14	SPCL661		As Req	INT. only
15				
16				
17				
18	SPCL665	80" Long, One End Straight, One End Angled	As req	M.F., FORD, INT, DB885
19	SPCL527A	Ram Spacer	2	
20	SPCL667	120" Long, Both Ends Straight	As req	M.F., FORD, INT. only
21	SPCL668	142" Long, Both Ends Straight	As req	DB885 only
22	SPCL540	Ram	2	For Ram Breakdown see end of Parts List.
23	SPCL545	Discharge Elevator Guard (Top)	1	
24	SPCL670	Spur Box Drive Shaft Guard Tube	1	
25				
26				
27	SPCL6	Unit 10 Valve (102/A1/E15)	1	M.F., FORD only
28	SPCT7	Adaptor 3/4" x 3/8" B.S.P.	4	M.F., FORD only
29	SPCT21	Adaptor 7/8" UNF x 3/8" BSP	1	DB only
30	SPCT22	Double Acting Twin Take-off Valve	1	DB only
31				
32				
33	SPCT26M	Discharge Elevator Bottom Shaft	1	
34	SPCT27M	Discharge Elevator Bottom Centre Plate	1	
35	SPCT31	Discharge Elevator Bottom Guard (Lower)	1	
36	SPCT32	Discharge Elevator Bottom Guard (Upper)	1	
37	SPCT35AM	Discharge Elevator Pivot Pins	1	
38	SPCT36	Discharge Elevator Pivot Pin Keep Plate	2	
39	SPCT38M	Discharge Elevator Top Shaft	1	
40	SPCT43M	Tank Base Frame	1	
41	SPCT44M	Tank Side - Front	1	
42	SPCT45M	Tank Side - Rear	1	
43	SPCT46BM	Discharge Elevator Restrictor Panel	1	
44	SPCT47M	Tank Bottom	1	
45	SPCT48M	Tank Tipping Side	1	
46	SPCT52	Tank Tipping Side Guide Roller	1	
47	SPCT54A	Ram Piston Pin	2	
48	SPCT55A	Ram Pivot Pin	1	
49	SPCT56M	Discharge Elevator Pivot Finger Bar	1	
50	SPCT63A	Discharge Elevator Side Baffle Plates	1	
51	SPCT82	Valve Block Support Plate	1 pr	
52	SPCT98	Ram Flow Restrictor	1	
53	SPCT109	Discharge Elevator Safety Strap (Transport only)	2	
54	SPCT114	Elevator Stay	1	
55	SPCT130	Spur Box Adjusting Angle	1	
56	SPCT208	Pipe Clamp	9 pr	
57	SPCT210	Stacking Nut	9	
58	SPCT211	Weld Plate	8	
59	SPCT222	Rubber Grommet	12	
60				
61				
62				
63	SP295	Discharge Elevator Drive Chain Jockey Sprocket	2	
64	SP446	Discharge Elevator Drive Chain Jockey Arm	1	
65				
66				
67				



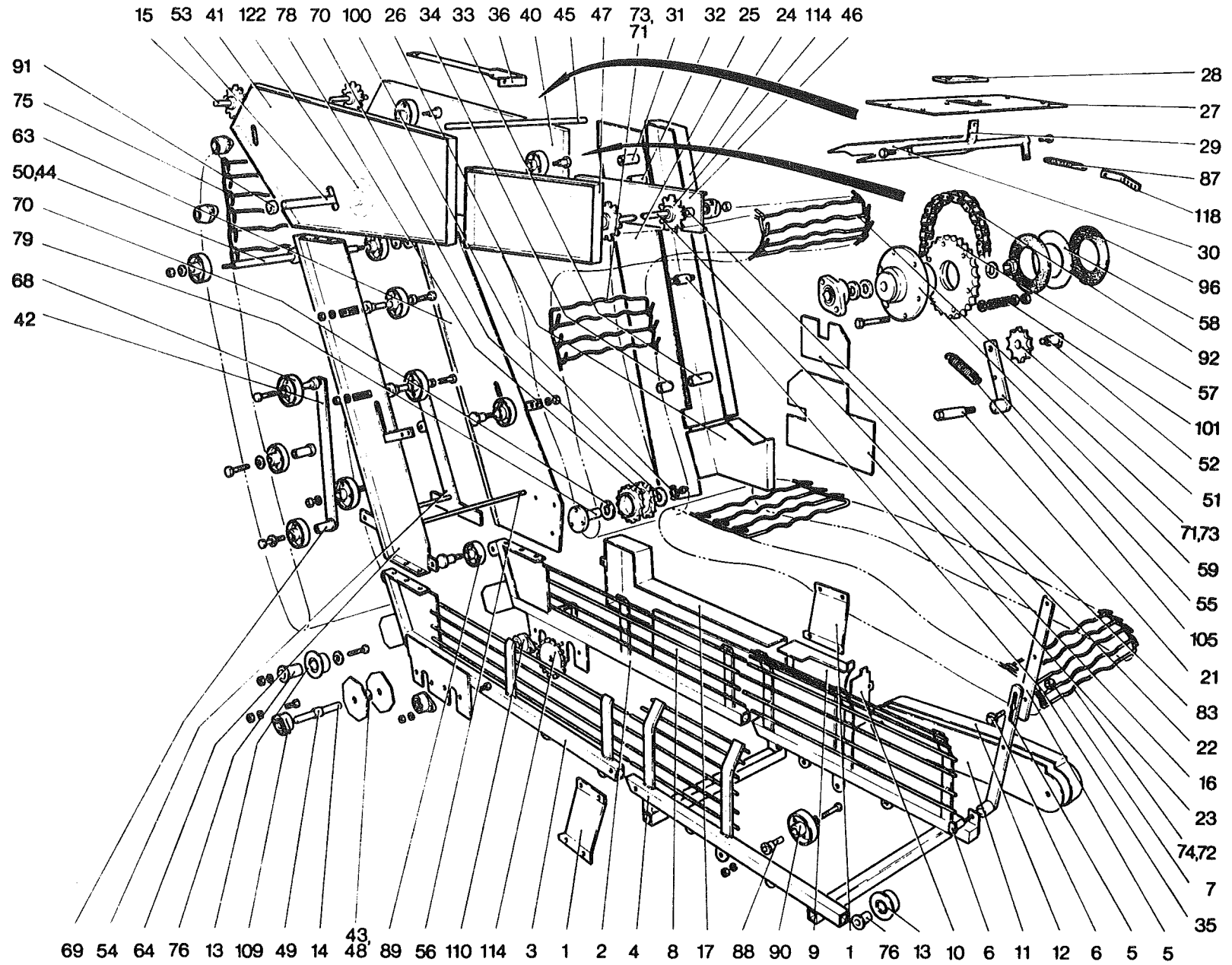
TANK & SIDE ELEVATOR

Item No.	Part No.	Description	Qty per Assy	Remarks
68	SPTT15M	Discharge Elevator Pivot Fingers	13	See End of List for Ram Breakdown
69	SPTT28	Drive Support Plate	1	
70	SPTT57	Discharge Elevator Drive Shaft	1	
71	SPTT58	Spur Box Coupling Guard	1	
72		Discharge Elevator Drive Shaft	1	
73		Pulley Guard	1	
74	SPTT61M	Double Acting Ram	1	
75				
76				
77				
78	BM9DM	Spur Box Intermediate Drive Shaft	1	
79	BM12	Thrust Washer	2	
80	BM80	Bearing Housing	1	
81	BM116M	Bearing Housing Shaft	1	
82	BM173	Double Sprocket	1	
83	BM174	Double Sprocket Spigot	1	
84	BM174A	Sprocket Spigot	1	
85				
86				
88	C19	Drive Sprocket Spacer	1	
89	C28	Web Sprocket Spacer (Inner)	2	
90	C30	Discharge elevator Drive Sprocket Spacer	1	
91	C33	Discharge Elevator Bottom Shaft Web Sprocket Spacer	2	
92	C50	Web Sprocket Spacer (Outer)	1	
93				
94				
95				
96	E48	Discharge Elevator Pivot Finger Spacer	10	
97	E142	Discharge Elevator Pivot Finger Angle Bracket Spacer	2	
98				
99				
100	GS412	Grease Nipple	1	
101				
102				
103	H121	Spring	2	
104				
105				
106				
107				
108	PS212B	Discharge Elevator Roller Bush	22	
109	PS213	Discharge Elevator Web Roller	4	
110	PS213B	Discharge Elevator Web Roller Collar	18	
111	PS326M	Bush	4	
112	PS386M	Bush	2	
113	PS441M	Bush	1	
114	PS441/1M	Bush	1	
115	PS488	1" Collar	2	
116	PS871/83	Discharge Elevator Lower Drive Chain	1	
117	PS871/102	Discharge Elevator Upper Drive Chain	1	
118	PS871/277	Discharge Elevator Middle Drive Chain	1	
119				
120				
121				
122	RH55M	Bush	1	
123	RH56	Circlip	2	
124				
125				
126				
127	SFT30	Bearing	2	
128	SFT30A	Bearing	2	
129				
130				
131				
132	TBM3/AM	Spur Box Gear 27T	1	
133	TBM4/AM	Spur Box Gear 12T	1	
134	TBM14	Discharge Elevator Web Link Lat		
135	TBM15	Discharge Elevator Web Link		
136	TBM16	Discharge Elevator Web Link Looped		
137	TBM24M	Discharge Elevator Top Guard Bolt	2	



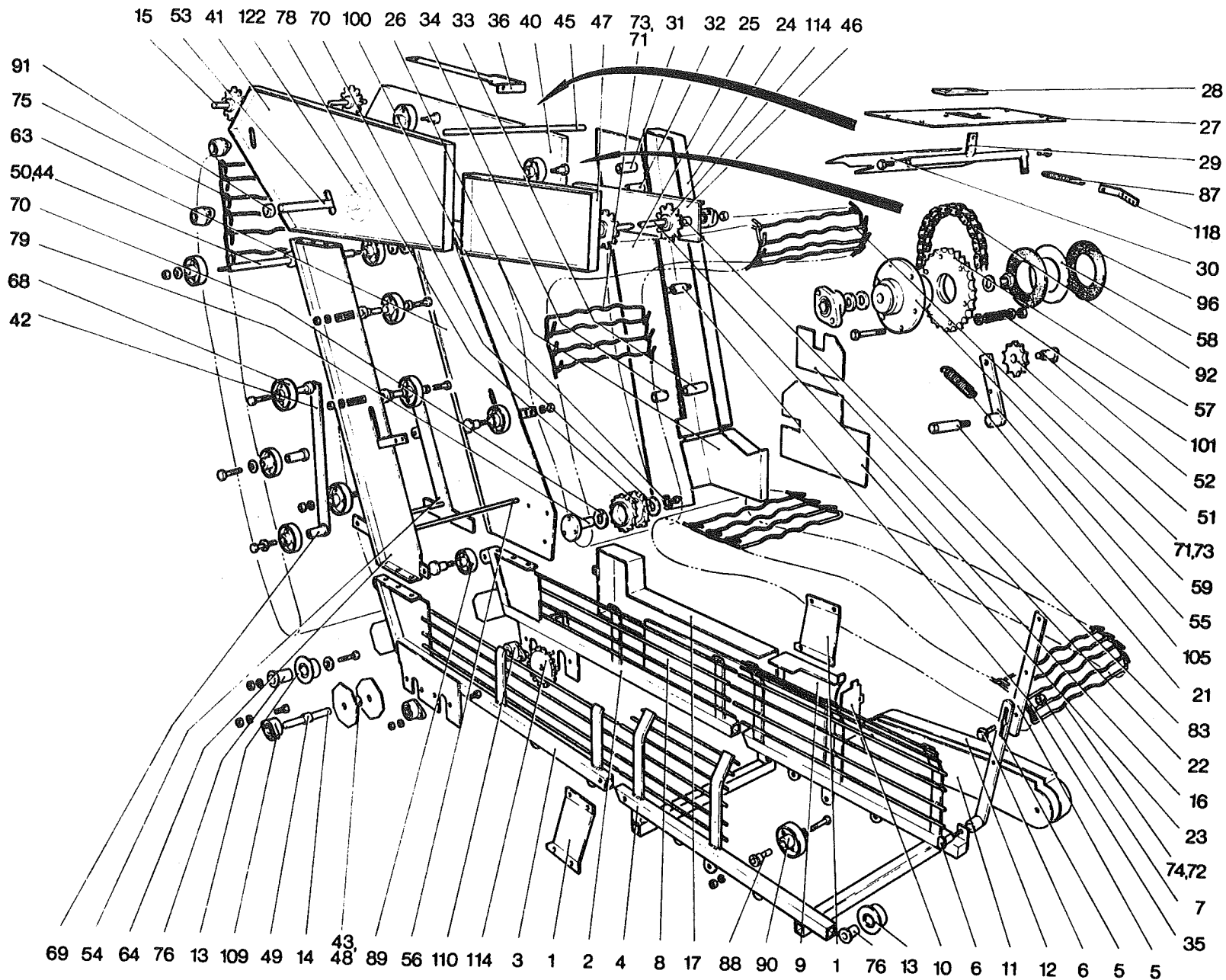
TANK & SIDE ELEVATOR

Item No.	Part No.	Description	Qty per Assy	Remarks
138	TBM30	Spur Box Side L.H.	1	
139	TBM31	Spur Box Side R.H.	1	
140	TBM48M	Spur Box Input Shaft	1	
141	TBM49M	Spur Box Output Shaft	1	
142				
143				
144				
145				
146				
147				
148				
149	TBMW162	Discharge Elevator Web Sprockets	4	
150	TBMW166	Discharge Elevator Bottom Sprockets Not Keyed	2	
151	TBMW167	Discharge Elevator Bottom Sprockets Keyed	2	
152	TBMW176	Spigot	2	
153	TBMW178	Spindle	2	
154	TBMW243	Drive Sprocket	1	
155	TBMW244	Top Shaft Support	1	
156	TBMW250	Discharge Elevator Drive Sprocket 15T	1	
157				
158				
159				
160	TRH420	Spring Tab	2	
161				
162				
163				
164	TRT298	Bearing Block	2	
165				
166				
167				
168	17133	Keep Plate	1	
169				
170				
171				
172	6206	Bearing	2	
173				
174				
175				
176				
177	UC31	Adaptor 3/8" x 3/8" BSP	As req	M.F., FORD, INT, only
		RAM BREAKDOWN		
	SPCL540 & SPTT61/3601	Fulcrum Cap	1	
	" 3602	Tube	1	
	" 3603	Tube Cap	1	
	" 3604	Piston Head	1	
	" 3605	Piston Rod	1	
	" 3606	Tube Sleeve	1	
	" 3607	Backing Washer (Rear)	1	
	" 3609	Piston Seal	2	
	" 3612	Sealing Washer	1	
	" 3618	Backing Washer (Front)	1	
	" 3619	Sleeve Seal	1	
	" 3620	Sleeve 'O' Ring	1	
	" 3621	Lock Nut	1	
	" 3622	Wiper	1	
	" 3623	Piston Head 'O' Ring	1	
	" 3624	Inlet Boss	1	
	" 3625	Bleeder Screw	1	



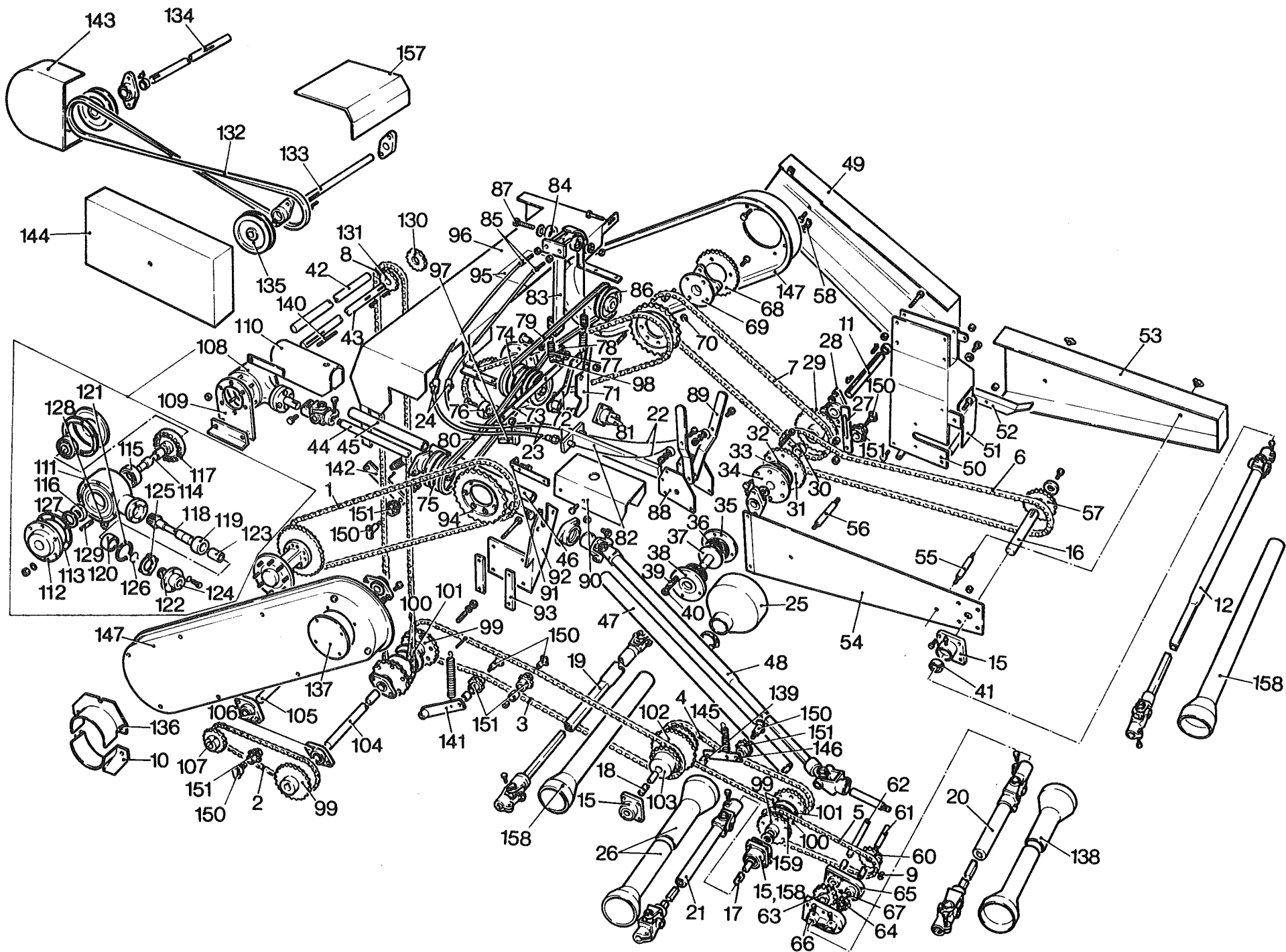
CONVEYORS

Item No.	Part No.	Description	Qty per Assy	Remarks
1	SPCL24/A	Inner Frame Rear Support Bracket L/R	1 pr	
2	SPCL25M	Inner Frame Rear L.H.	1	
3	SPCL26M	Inner Frame Rear R.H.	1	
4	SPCL27M	Inner Frame Rear Extension	1	
5	SPCL29M	Inner Frame Rear Extension Lifting Stays	2	
6	SPCL30	Shoulder Bolt	4	
7	SPCL61	Inner Frame Lift Link Bush	2	
8	SPCL75	Front Inner Frame Chain Guard Back Plate	1	
9	SPCL76	Front Inner Frame Chain Guard	1	
10	SPCL76/1	Front Inner Frame Chain Guard Extension	1	
11	SPCL78	Cyclone Wheel to Secondary Drive Sprocket Backing Plate	1	
12	SPCL79	Cyclone Wheel to Secondary Drive Sprocket Guard	1	
13	SPCL274	Roller	6	
14	SPCL500	Stripper Barrel Shaft	1	
15	SPCL516	Rear Elevator Top Shaft	1	
16	SPCL519	Top Elevator Forward Drive Shaft	1	
17	SPCL530	Rear Inner Frame Chain Guard	1	
18				
19				
20				
21	SPCT39	Jockey Arm Spigot	2	
22	SPCT77	Inner Frame Rear L.H.D. Dust Cover Top	1	
23	SPCT78	Inner Frame Rear L.H.D. Dust Cover Bottom	1	
24	SPCT79/A	Rear Elevator Chain Guard	1	
25	SPCT79/B	Rear Elevator Chain Guard Back Plate	1	
26	SPCT80M	Rear Elevator Bottom Chain Guard	1	
27	SPCT110	Top Elevator Trash Extractor Support Plate	1	
28	SPCT111	Top Elevator Trash Extractor Adjustable Stop	1	
29	SPCT112	Top Elevator Trash Extractor Flap	1	
30	SPCT113	Top Elevator Trash Extractor Flap Adjusting Plate	1	
31	SPCT124	Rear Elevator Chain Guard Top Spacer (Long)	1	
32	SPCT125	Rear Elevator Chain Guard Spacer	1	
33	SPCT126	Rear Elevator Chain Guard Bottom Spacer (Long)	1	
34	SPCT127	Rear Elevator Chain Guard Bottom Spacer (Short)	1	
35	SPCT128M	Rear Elevator Chain Guard Bolt	1	
36	SPCT133	Rear Elevator to Tank Stay (R.H.)	1	
37				
38				
39				
40	SP7/B/L	Top Elevator Side Plate L.H.	1	
41	SP7/B/R	Top Elevator Side Plate R.H.	1	
42	SP22	Rear Elevator Stay	2	
43	SP31M	Stripper Barrel Plate	12	
44	SP50	Tie Bar	3	
45	SP51	Top Elevator Top Plate Tie Bar	1	
46	SP160/A/LH	Top Elevator Side Extension	1	
47	SP160/A/RH	Top Elevator Side Extension	1	
48	SP171/M	Stripper Barrel Plate Spacer	11	
49	SP172/M	Stripper Barrel Shaft Steel Spacer	1	
50	SP192	Tie Bar Spacer	3	
51	SP295	Plastic Jockey Sprocket 11T	2	
52	SP296M	Shoulder Bolt	2	
53	SP430M	Top Elevator Idler Shaft	1	
54	SP435TT	Rear Elevator Top Track	1	
55	SP446	Jockey Arm	2	
56	SP448	Top Track Restrictor Rod	1	
57	SP523	Top Elevator Clutch Sprocket	1	
58	SP524M	Clutch Centre Plate	1	
59	SP525	Clutch Clamp Plate	1	



CONVEYORS

Item No.	Part No.	Description	Qty per Assy	Remarks
60	SPTT12/A/LM SPTT12/ARM	Rear Elevator Side L.H.	1	
61		Rear Elevator Side R.H.	1	
62	BM2 BM2A BM12 BM43A BM43A BM44A BM44A BM44A BM125/1 BM137C/M BM173 BM174 C32	Top Track Roller	6	
63		Top Track Roller Bush	6	
64		Thrust Washer	2	
65		Web Links Up	22	
66		Web Links Up	3	
67		Web Links Down	89	
68		Web Links Down	53	
69		Web Links Down (Rear Elevator)	96	
70		Roller Bush	6	
71		Rear Elevator Top Track Pivot Bar	1	
72		Double Sprocket	1	
73		Double Sprocket Spigot	1	
74	PS158 PS212B PS213 PS213B PS326M PS871/235 PT51 RH56 RH149 RP71 SFT30A SFT40A TBMW162 TRH210 TTX12M	Top Elevator Shaft Sprocket Spacer	4	
75		Top Elevator Beet Deflector Spring	1	
76		Roller Bush	34	
77		Roller	2	
78		Roller	32	
79		Top Elevator Idler Shaft Collars	4	
80		Rear Elevator Drive Chain	1	
81		Ferodo Discs	2	
82		Circlip 1 1/8" Spring	1	
83		Jockey Arm Spring	6	
84		Pollard Flange Bearings	1	
85		Pollard Flange Bearings	9	
86	Web Drive Sprockets Top Elevator Trash Extractor Tension Bracket Top Elevator Idler Roller	Web Drive Sprockets	6	
87		Top Elevator Trash Extractor Tension Bracket	1	
88		Top Elevator Idler Roller	2	
89				
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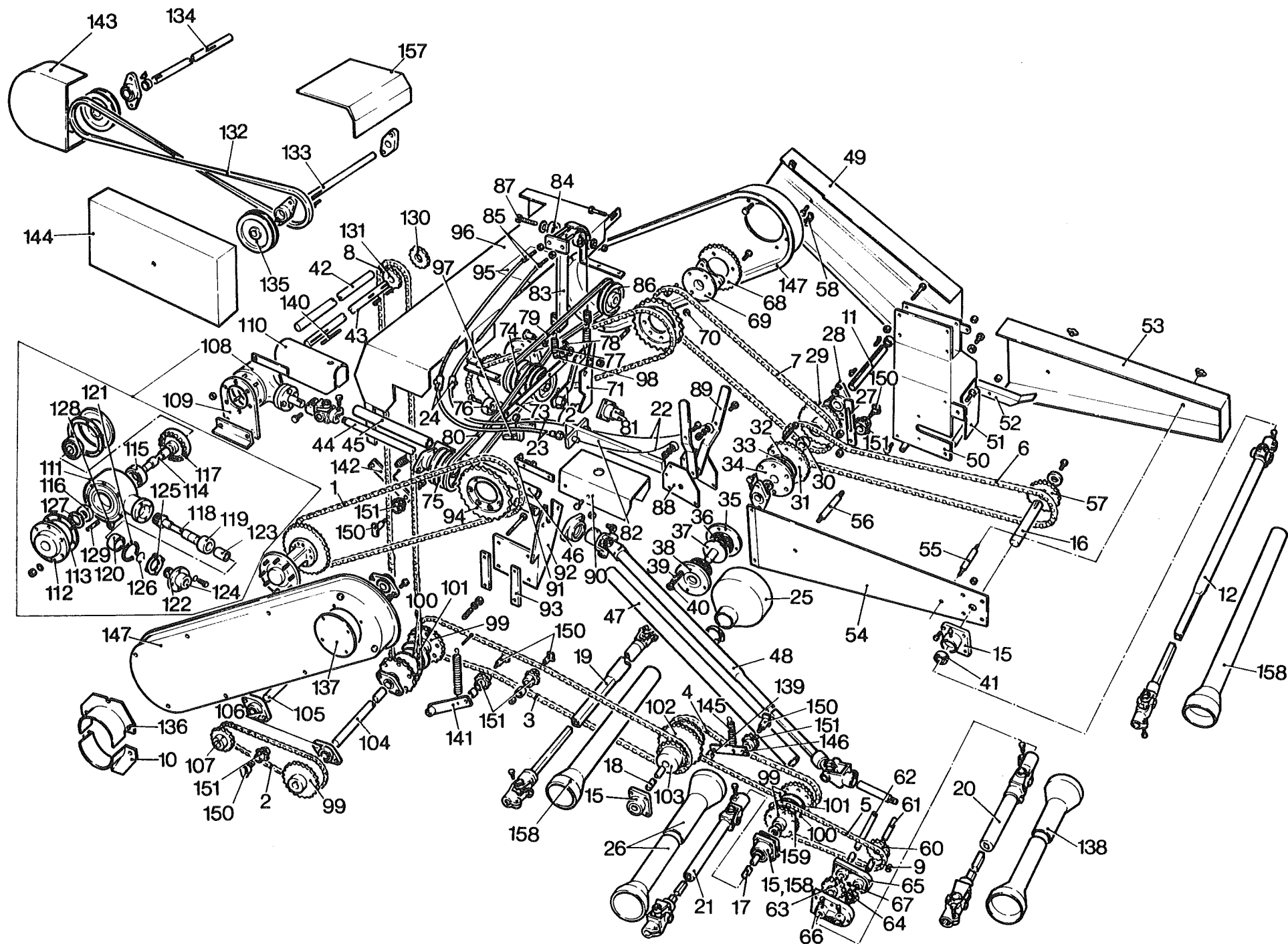
MAIN DRIVES

Item No.	Part No.	Description	Qty per Assy	Remarks
1	SP93/78	Tractor Main Drive Chain (Ford & Ferg.)	2	
	SP93/82	Tractor Main Drive Chain (Int.)	2	
	SP93/85	Tractor Main Drive Chain (DB780)	2	
	SP243/A	Tractor Main Drive Chain Half Link	2	
	SP242/A	Tractor Main Drive Chain Joining Link	2	
2	PS871/47	Stripper Barrel Drive Chain	1	
3	PS871/145	Counter Shaft Drive Chain	1	
4	PS871/136	Cyclone Wheel Drive Shaft Drive Chain	1	
5	PS666/64	Top Track Spur Box Drive Chain	1	
6	PS666/120	Feeler Wheel Drive Chain	1	
7	PS871/216	Power Driven Lifting Wheel Drive Chain	1	
8	PS871/89	Main Web Drive Chain	1	
9	D12	Spur Box Sprocket Spacer	1	
10	SP365	Chain Case Hub Shield (Bottom)	1	
11	SPCL32M	Secondary Drive Shaft	1	
12	SPCL50M	Feeler Wheel Drive Hardy Spicer Coupling	1	
13	Discontinued			
14	Discontinued			
15	SPCL36	Sprocket Bearing Housing	3	
16	SPCL518	T.U. Drive Sprocket Bearing Housing Shaft	1	
17	SPCL520	Cyclone Wheel Drive Sprocket Bearing Housing Shaft	1	* Replaced by SPCL672
18	SPCL39M	Secondary Drive Sprocket Bearing Housing Shaft	1	
19	SPCL51M	Power Driven Lifter Wheel Hardy Spicer Coupling	1	
20	SPCL52M	Top Track Hardy Spicer Coupling	1	
21	SPCL53M	Cyclone Wheel Hardy Spicer Coupling	1	
22	SPCL62	Main Drive & Discharge Elevator Control Cables	2	
23	SPCL63	Main Drive & Discharge Elevator Cable Conduit	2	
24	SPCL65	Main Drive & Discharge Elevator Control Cable Lubricators	2	
25	SPCL107	Power Driven Lifting Wheel Clutch Guard	1	
26	SNA441	Coupling Guard	1	
27	SPCL111	Topping Unit Chain Adjuster	1	
28		Flange Bearing — Pollard Sprocket	2	
29	TBMW189	Nylon Bush	1	
30	SP420	Clutch Sprocket	2	
31	BM280/A	Clutch Centre Plate	1	
32	BMZ92/AM	Ferodo Disc	1	
33	PT51	Clutch Pressure Plate	2	
34	BMZ93/A	Clutch Pressure Plate (Inner)	1	
35	SPCL118M	Clutch Pressure Plate (Inner)	1	
36	BMZ118/A	Ferodo Discs	2	
37	PT34/1M	Clutch Centre Plate	1	
38	PT40	Clutch Pressure Plate (Outer)	1	
39	VRT20	Clutch Springs	3	
40	VRT21	Clutch Springs Ferrule	3	
41	6207	Bearing Housing Bearings (for SPCL36)	6	
42	SPCL234	Gearbox Shaft Plastic Guard Tubing — 18"	1	
43	SPCL517	Gearbox Shaft	1	
44	SP54/AM	Main Drive Shaft	1	
45	SPCL235	Main Drive Shaft Guard Tubing (rear) 25½"	1	
46	SPCL236	Main Drive Shaft Guard Tubing (front) 24"	1	
47	SPCL237	Front Flail Drive Coupling Guard Tube 40"	1	
48	SP58/2M	Front Flail Drive Coupling	1	
49	SP406A	Power Driven Lifting Wheel Chain Guard (Ferg. & Ford)	1	
	SPCL308A	Power Driven Lifting Wheel Chain Guard (Int. 454)	1	
	SP406/DB	Power Driven Lifting Wheel Chain Guard (DB880)	1	

MAIN DRIVES

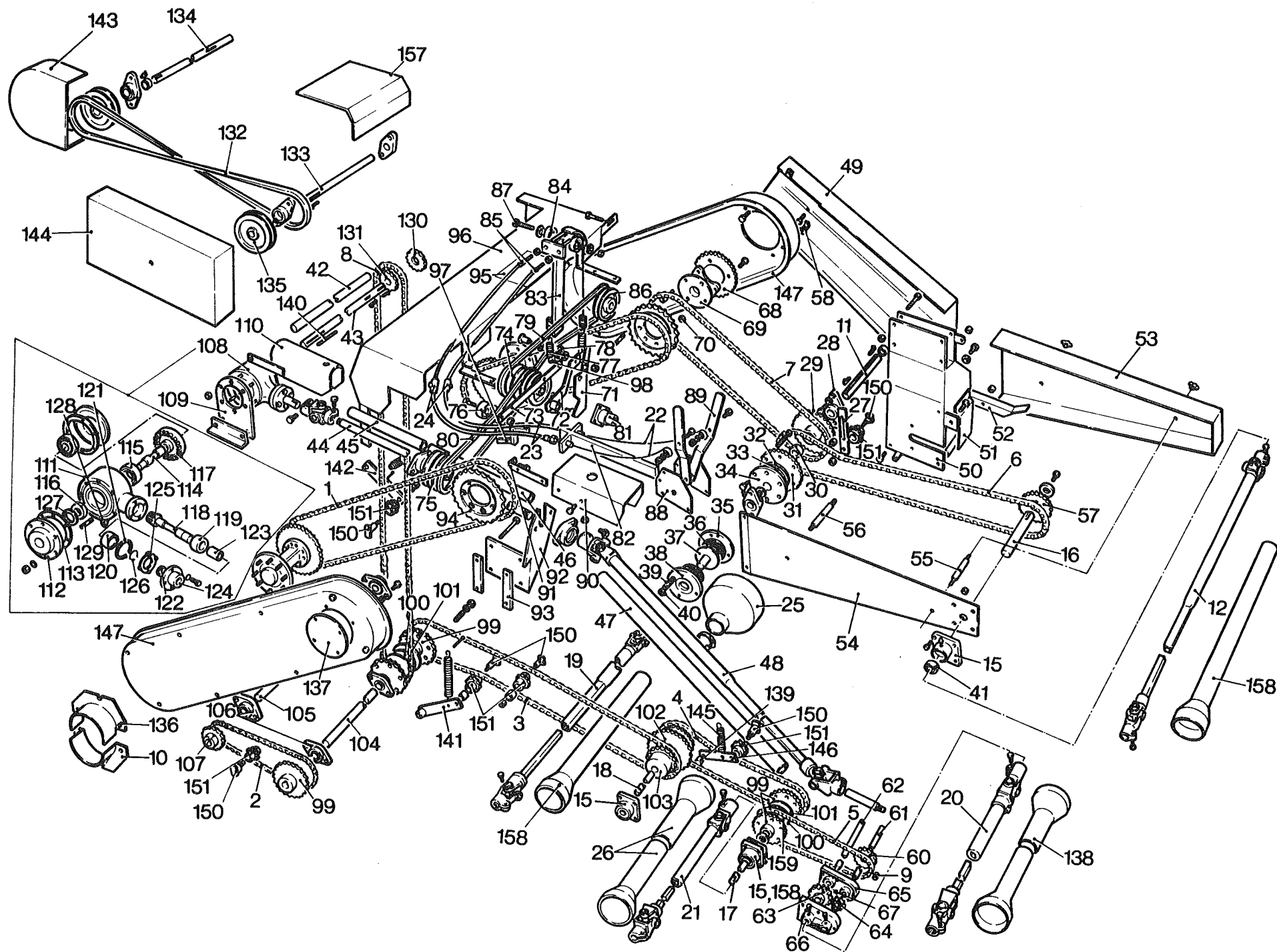
Item No.	Part No.	Description	Qty per Assy	Remarks
49	SP459	Power Driven Lifting Wheel Chain Guard (DB780)	1	
50	SP403/CM	Drive Shaft Mounting Bracket	1	
51	SPCL89	Secondary Drive Shaft Bracket Guard	1	
52	SP411	Angle Step	1	
53	SPCL10	Topping Unit Clutch Drive Guard	1	
54	SPCL9	Topping Unit Clutch Drive Guard Back Plate	1	
55	SPCL154	Guard Bolt	1	
56	SP225M	Guard Bolt	1	
57	17075	21. T ¾ Pitch Sprocket	1	
58	SP517	Power Driven Lifter Wheel Chain Case Bracket (Ford, Ferg. Int.)	1	
59	Discontinued			
60	BMZ112M	15T Spur Box Sprocket	1	
61	TBM48M	Spur Box Shaft – Input	1	
62	TBM49M	Spur Box Shaft – Output	1	
63	TBM3/AM	Spur Box Gear 27T	1	
64	TBM4/AM	Spur Box Gear 12T	1	
65	TBM30	Spur Box Side L.H.	1	
66	TBM31	Spur Box Side R.H.	1	
67	PS441M	Spur Box Bushes	1	
	PS386M	Spur Box Bushes	2	
	RH53M	Spur Box Bushes	1	
	PS441M	Spur Box Bushes	1	
68	SP417	Tractor Axle Drive Sprocket	1	
69	SP416	Tractor Axle Drive Sprocket	1	
70	SP418	Spigot	1	
		Tractor Axle Hub Extension Stud (Ferg.)	4	
	SP505	Tractor Axle Hub Extension Stud (Ford 3000 Int B414, B434)	4	
	SP419	Tractor Axle Hub Extension Stud (DB780 & 880)	4	
71	SP158/AM	Jockey Arms Pivot Plate (DB, Ferg. & Ford only*)	1	
72	SPCT87M	Discharge Elevator Drive Belt Jockey Arm	1	
73	SP179/1M	Main Drive Belt Jockey Arm (SP271 / (SP271/A for DB Tractors)	1	
74	SPCT122	Main Drive P.T.O. Pulley	1	
75	SPCT123M	Main Drive Multi-V Pulley	1	
76	RP46A	Main Drive Belt Jockey Roller (with FPS118 Bearing)	1	
77	PS766	Jockey Arm Cable Tension Spring	2	
78	RP46A	Discharge Elevator Drive Belt Jockey Roller (with FPS118 bearing)	1	
79		Spur Box Drive 'V' Belt (VB5 MF135, MF148 and Ford 3000), (VB19 Int.), (VB31 Ferg.), (VB37 DB), (VB45 Int. 454) *SP158/A/INT/*- Int. only plus SP286 spacer.	1	
80		Main Drive Multi 'V' Belt (VB44 Ferg. Ford, INT*) (VB43 DB) (VB47 Int. 545)	1	
81	SP182	Splined Flange for P.T.O. Pulley	1	
82	SPCL95	Operating Lever Arm R.H. side	1	
83	SPCL96	Operating Lever Arm Rear	1	
84	SP426	Operating Cable Roller	2	
85	SPCL98	Operating Cable Adjusters	4	
86	BM35M	Spur Box Pulley	1	
87	SP427	Cable Roller Spindle	1	
88	TBMW57	Control Lever Support Arm Mounting Plate	1	
89	TBMW56	Jockey Arm Control Lever	2	
90	SP262	Flail Rear Drive Coupling Guard	2	
91	SP429	Flail Rear Drive Coupling Guard Brackets	1	
92	SPCL512	Main Drive Shaft Mounting Plate	2	
93	SP257M	Main Drive Shaft Mounting Plate Straps	2	
94	SP19A	Tractor Axle Sprockets 20T x 1½P	1	
95	SPCT107/A	Main Drive Guard Centre Cover – not DB (SPCT107 DB only)	1	
96	SPCT106	Main Drive Guard Ford & Ferg. (SPCT106/INT for INT) SPCL229L, 259R, 304A for INT454	1	

*SP158/A/INT/. Int. only plus SP286 spacer.



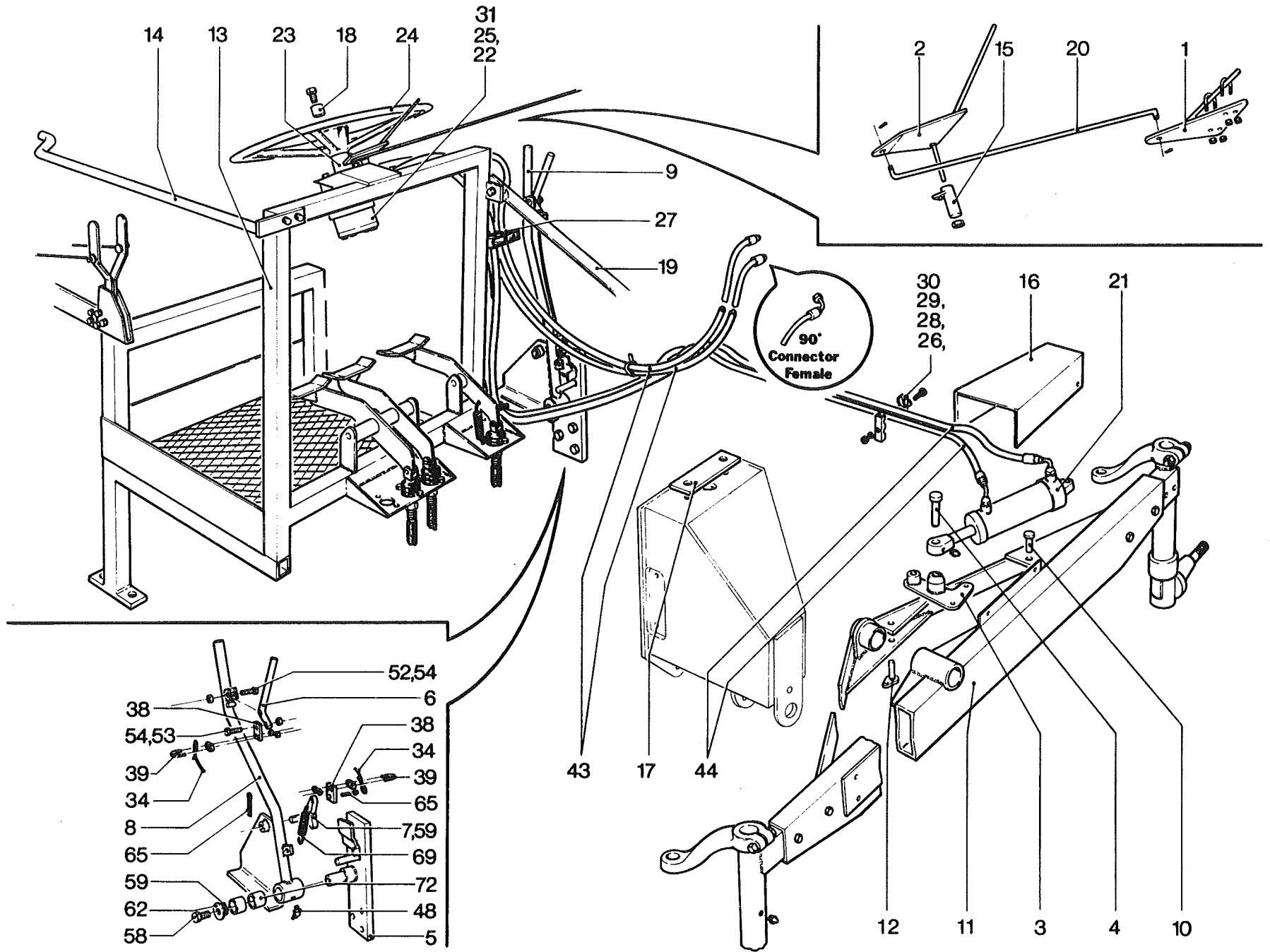
MAIN DRIVES

Item No.	Part No.	Description	Qty per Assy	Remarks
97	SP188/D	Mounting Bkt & Belt Guide (Ferg. only)	1	* Replaced by 11003 Plate Spkt. 26T * Replaced by 11004 Clutch Centre Plate * Replaced by 11006 Ferodo Discs * Replaced by SPCL671 Main Web Shaft
	SP268/B	Mounting Bkt & Belt Guide (DB only)	1	
98	TBM73	Spring Anchor (all tractors)	1	
99	BMZ114	Plate Sprocket 26T	4	
100	BMZ95M	Clutch Centre Plate	2	
101	BMZ118/A	Ferodo Discs	2	
102	TBMW161	Double Sprocket	1	
103	TBMW204	23T Sprocket	1	
104	SPCL502	Main Web Shaft	1	
105	SPCL500	Stripper Barrel Shaft	1	
106	SFT30A & 40A	Pollard Flange Bearings	As req	
107	SPCL503	19T Sprocket	1	
108	PS450/2TM	Gear Box	1	
109	SP149	Gear Box Mounting Plate	1	
110	SPCL157	Main Drive Shaft Coupling Guard (Gearbox end)	1	
111	PS200/2M	Gear Box Housing	1	
112	PS201/2M	Gear Box Side Plate	2	
113	PS470/A	Gear Box Side Plate Gasket	2	
114	PS243M	Gear Box Tubular Shaft Bearing	1	
115	145	Oil Seal	2	
116	PS245	Oil Seal	2	
117	PS242	Bevel Gear	1	
118	PS236/241M	Tail Shaft & Bevel Pinion	1	
119	330	Tail Shaft Bearing	1	
120	330/C	Tail Shaft Bearing (with Circlip Groove)	1	
121	PS236	Tail Shaft Bearing Circlip	1	
122	962170A	Tail Shaft Oil Seal	1	
123	PS237	Spacer	1	
124	PS202	Tail Shaft End Plate	1	
125	PS469	End Plate Gasket	1	
126		Tail Shaft Circlip	1	
127		Side Plate Shim	As req	
128	PS869	Drain Plug	1	
129		Housing Stud M10 x 50mm	12	
130	SP209M	Main Drive Sprocket	1	
131	TBMW153	Rear Elevator Drive Sprocket – 17T	1	
132	VB41	Top Elevator Drive 'V' Belts	1	
133	SPCL519	Forward Drive Shaft – Top Elev.	1	
134	SPCL516	Rear Elevator Drive Shaft	1	
135	SPCL526	Double Pulley	2	
136	SP463	Chain Case Hub Shield (Top)	1	
137	SP464	Blanking Plate	1	
138	SNA429	Coupling Guard	1	
139	SPCL117	Jockey Arm Spigot	1	
140		Gearbox Key (7mm x 8mm x RBE)	1	
141	Discontinued	Jockey Arm Spigot	2	
142	BM184/A	Jockey Arm	2	
143	SPCL347	Top Elev. Belt Guard Rear	1	
144	SPCL44B	Top Elev. Belt Guard Front	1	
145	H121/B	Jockey Arm Spring	2	
146	SP446	Jockey Arm	1	
147	SP111/L	Chain Case L.H. (Ford & Ferg.)	1	
	SP11/R	Chain Case R.H. (Ford & Ferg.)	1	
	SP457	Chain Case Upper (DB)	1 pr	
	SP457 (upper)			
	SP457 (lower)	Chain Case Lower (DB)	1 pr	
	SP288/L	Chain Case L.H. (INT (SPCL329 INT 454)	1	
	SP288/R	Chain Case R.H. (INT (SPCL329 INT 454)	1	
148				
149				
150	SP296M	Shoulder Bolt	As req	
151	SP295	Plastic Jockey Sprocket 11T	As req	
152	SP531	P.T.O. Shaft Spacer (not shown)	1	
153	SP531	P.T.O. Shaft Spacer (not shown)	1	
154	SPCT136	Main Drive Belt Guard Bracket (DB885) (not shown)	1	
	SPCT141	Main Drive Belt Guard Bracket (INT454) (not shown)	1	
	SPCT144	Main Drive Belt Guard Bracket (Ferg.) (not shown)	1	



MAIN DRIVES

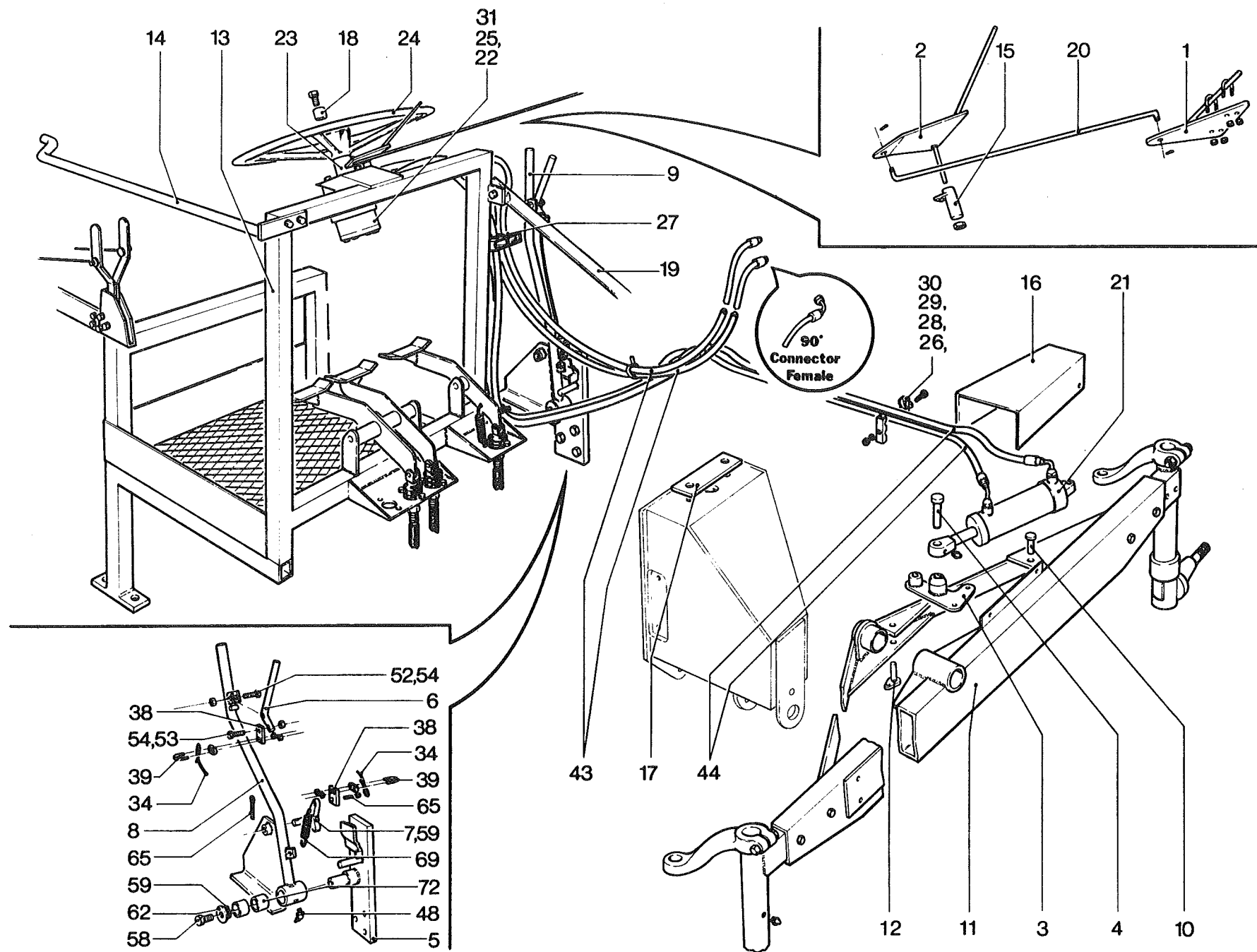
Item No.	Part No.	Description	Qty per Assy	Remarks
155	SPCT137	Main Drive Belt Guard Top Cover (DB885 & INT454) (not shown)	1	
	SPCT145	Main Drive Belt Guard Top Cover (Ferg. & Ford) (not shown)	1	
156	SPCT138	Main Drive Belt Guard Bottom Cover (DB885 & INT454)	1	
	SPCT146	Main Drive Belt Guard Bottom Cover (Ferg. & Ford)	1	
157	SPCL349M	Gear Box Shaft Guard	1	
158	SPC673	Spacer	1	
159	11005	Clutch Bearing	4	



POWER STEERING

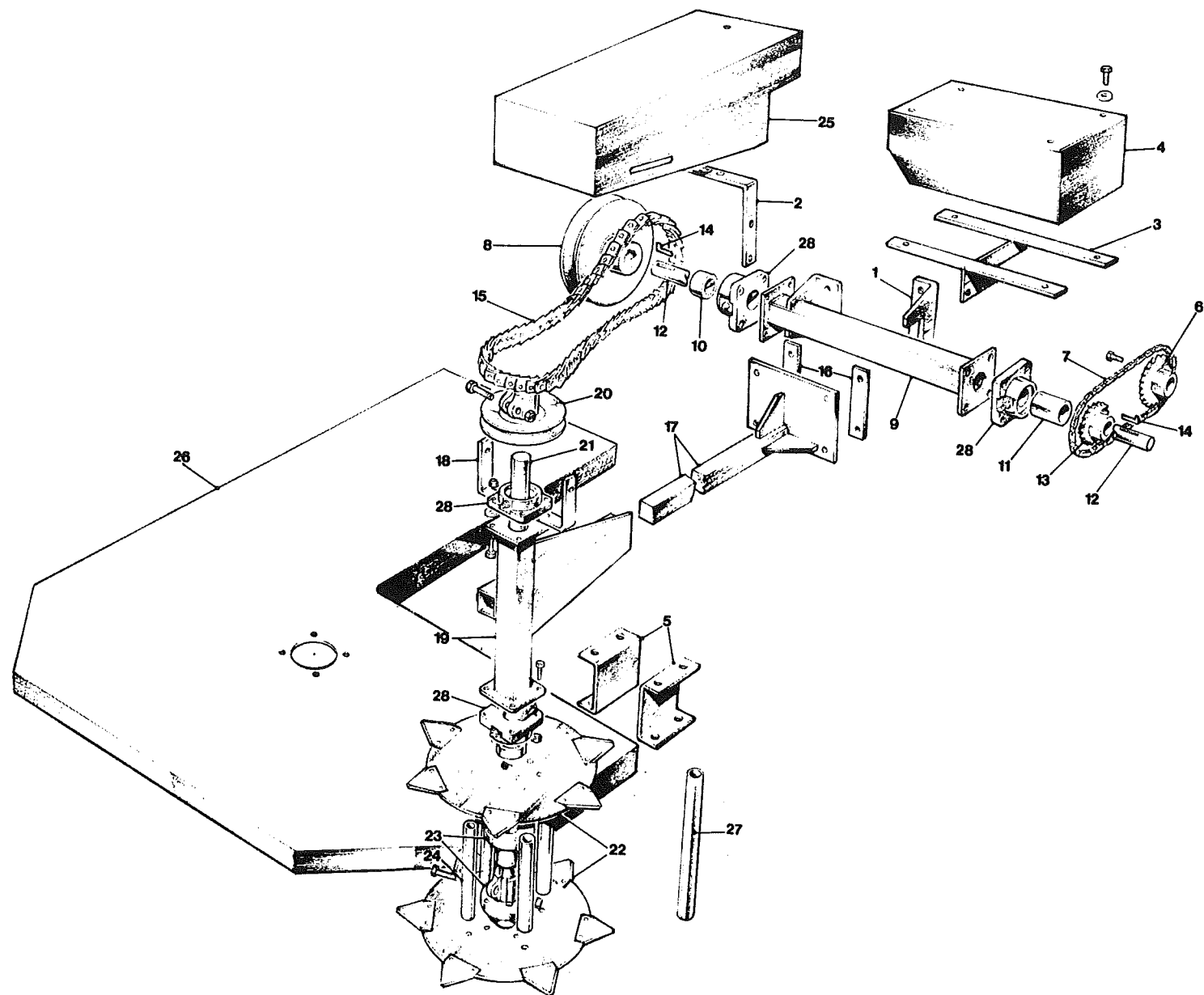
Item No.	Part No.	Description	Qty per Assy	Remarks
1	SPCL129M	Remote Control Throttle Plate — David Brown	1	
2	SPCL131M	Remote Control Hand Throttle Lever — David Brown	1	
3	SPCL581	Steering Crank	1	
4	SPCL582	Steering Ram Piston Pin	1	
5	SPCL584	Handbrake Attachment Plate	1	
6	SPCL585	Handbrake Lever	1	
7	SPCL590	Handbrake Panel	1	
8	SPCL591	Handbrake Handle	1	
9	SPCL592	Handbrake Assembly	1	
10	SPCT156	Ram Pivot Pin	1	
11	SPCT157M	Axle Beam	1	
12	SPCT159M	Steering Pin	1	
13	SPCT161M	Seating Platform (not INT454)	1	
14	SPCT162M	Seating Platform Handrail	1	
15	SPCT163M	Throttle Pivot Boss — DB	1	
16	SPCT164M	Ram Guard	1	
17	SPCT165M	Steering Head Blanking Plate	1	
18	SPCT166M	Steering Column Spacer	2	
19	SPCT167M	Seating Platform/Tractor Stay — David Brown	1	
20	SPCT169M	Seating Platform/Tractor Stay — Ford 3000	1	
21	SPCT168M	Remote Control Throttle Rod — David Brown	1	
22	SPCT200M	Steering Ram	1	
23	SPCT201	Steering Valve	1	
24	SPCT202	Steering Column	1	
25	SPCT203	Steering Wheel	1	
26	SPCT204	¾" Rubber 'O' Ring	4	
27	SPCT208	Pipe Clamp	5 pr	
28	SPCT209	Rubber Grommet	10	
29	SPCT210	Stacking Nut	5	
30	SPCT211	Welded Stud	2	
31	SPCT212	Stacking Stud	2	
32	SPTT68	Adaptor	5	
33				
34	PH101/450	Wire Rope	1	
35				
36				
37				
38	TBMW22	Cable Tab	2	
39	TBMW65	Cable Clamp	2	
40				
41				
42				
43	SPCI662	Hose Assembly	2	M.F. only.
	SPCI677	Hose Assembly	2	Ford 3000 only.
	SPCI675	Hose Assembly	2	Int. only.
	SPCI666	Hose Assembly	1	DB 885 only.
	SPCI665	Hose Assembly	1	DB 885 only.
44	SPCI669	Hose Assembly	2	M.F. Ford 3000, Int. 885.
45				

Replaced by SPCL583 on later machines.



AUXILIARY CONTROLS

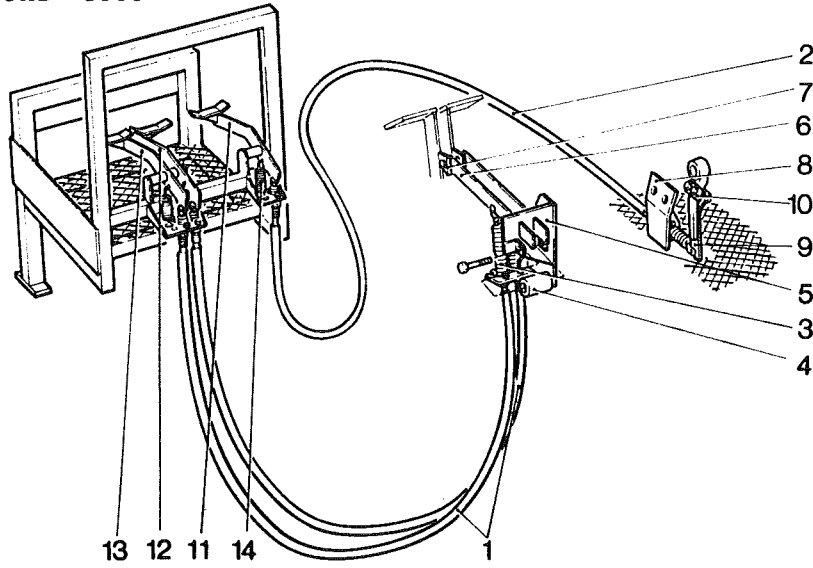
Item No.	Part No.	Description	Qty per Assy	Remarks
FORD				
1	SPCL554	Brake Cable 4'-8" LG	2	
2	SPCL556	Clutch Cable 6'-0" LG	1	
3	SPCL558	Rubber Gaiter	6	
4	SPCL579	Brake Pedal Operating Arm Rollers	2	
5	SPCL609	Brake Pedal Fixing Bracket	1	
6	SPCL610	Brake Pedal Operating Arm	2	
7	SPCL611	Brake Pedal Operating Arm Attachment Plate	2	
8	SPCL612	Clutch Cable Fixing Bracket	1	
9	SPCL613	Clutch Shaft Extension	1	
10	SPCL614	Clutch Shaft Extension Plate	1	
11	SPCL630	Clutch Pedal	1	
12	SPCL631	L.H. Brake Pedal	1	
13	SPCL632	R.H. Brake Pedal	1	
14	SPCL639	Pedal Spring	3	Replaced by SPCL 633 from June 1981.
MASSEY FERGUSON 135				
1	SPCL554	L.H. Brake Cable 4'-8" LG	1	
2	SPCL555	R.H. Brake Cable 4'-2" LG	1	
3	SPCL557	Clutch Cable 5'-6" LG	1	
4	SPCL558	Rubber Gaiter	6	
5	SPCL564	Pedal Spring	3	
6	SPCL621	Brake Pedal Operating Strip Rollers	2	
7	SPCL622	Brake Cable Attachment Bracket	1	
8	SPCL623	Brake Return Spring Angle	1	
9	SPCL624	L.H. Brake Pedal Operating Strip	1	
10	SPCL625	R.H. Brake Pedal Operating Strip	1	
11	SPCL626	Brake Pedal Operating Strip Attachment Bracket	2	On Massey 135 Use SPCL654, 655, 656
12	SPCL627	Brake Pedal Operating Strip Spacer	2	
13	SPCL628	Brake Pedal Operating Strip Attachment Plate	4	On Massey 135 Use SPCL654, 655, 656
14	SPCL629	Clutch Cable Attachment Bracket	1	
15	SPCL630	Clutch Pedal	1	
16	SPCL631	L.H. Brake Pedal	1	
17	SPCL632	R.H. Brake Pedal	1	
18	SPCL637	Clutch Operating Lever	1	Replaced by SPCL633 from June 1981
19	SPCL638	Brake Attachment Bracket Spacer	2	
20	SPCL650	Clutch Lever Attachment Strip	1	
21	SPCL653	Support Bracket	1	135 only
DAVID BROWN				
1	SPCL553	Brake Cable 5'-0" LG	2	
2	SPCL554	Clutch Cable 4'-8" LG	1	
3	SPCL558	Rubber Gaiter	6	
4	SPCL604	Brake Cable Fixing Bracket	1	
5	SPCL605	Brake Pedal Clevis Connecting Bracket	1	
6	SPCL606	Brake Pedal Clevis Connecting Bracket	1	
7	SPCL607	Clutch Cable Fixing Bracket	1	
8	SPCL608	Clutch Pedal Clevis Case Bracket	1	
9	SPCL634	Clutch Pedal	1	
10	SPCL635	L.H. Brake Pedal	1	Replaced by SPCL630 from June 1981.
11	SPCL636	R.H. Brake Pedal	1	Replaced by SPCL631 from June 1981.
12	SPCL639	Pedal Spring	3	Replaced by SPCL633 from June 1981.
INTERNATIONAL				
1	SPCL553	Type 70 Bowden Cable 5'-0" 3" Stroke	3	
2	SPCL558	Rubber Gaiter 62/183	6	
3	SPCL615	Brake Cable Fixing Bracket	1	
4	SPCL616	Clutch Pedal Attachment Bracket	1	
5	SPCL617	Clutch Pedal Hook Bolt	1	
6	SPCL618	Clutch Pedal Hook Bolt	1	
7	SPCL619	Brake Pedal Clevis Connecting Bracket	2	
8	SPCL620	Clutch Cable Fixing Bracket	1	
9	SPCL630	Clutch Pedal	1	
10	SPCL631	L.H. Brake Pedal	1	
11	SPCL632	R.H. Brake Pedal	1	
12	SPCL639	Spring (Pedal)	3	Replaced by SPCL633 from June 1981.



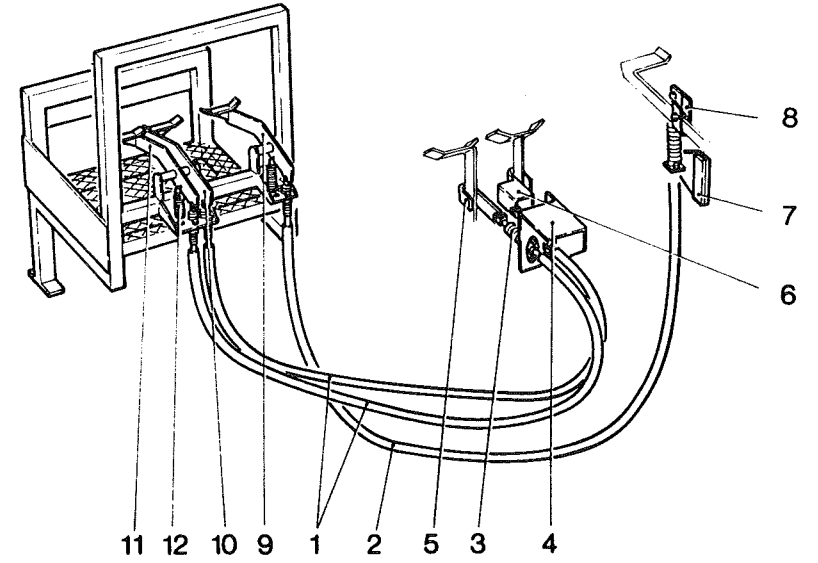
POWER STEERING

Item No.	Part No.	Description	Qty per Assy	Remarks
46	GS409	Grease Nipple	1	
47		M6 x 25mm Hex HD Setscrew	1	
48		M6 x 30mm Hex HD Setscrew	1	
49		M6 Locknut	2	
50				
51				
52				
53				
54				
55				
56				
57				
58		M10 x 30mm Hex HD Setscrew	1	
59		M10 x Plain Washer	2	
60				
61				
62		M12 x 35c/d Plain Washer	1	
63				
64				
65		Cotter Pin 3/16" x 7/8" LG	1	
66		Cotter Pin 5/32" x 1½" LG	1	
67				
68				
69	11244	Spring	1	
70				
71				
72	SPCL593	Bush	2	
73				
		SPECIAL ATTACHMENTS		
		Ford 3000 (Not Shown)		
	SPCL179	Seating Platform to Tractor Support Tie	1	
	SPCL181	Tractor Lifting Segment	1	
	SPCL182	Tractor Lifting Segment Shoulder Bolt	1	
	SPCL183	Tractor Lifting Segment Support DB780 (Not Shown)	1	
	SPCL133	Seat Transfer Mounting Plate	1	
	SPCL175	Hand Rail to Tractor Support Tube	1	
	SPCL127	Tractor to Seating Platform Stay INTERNATIONAL (Not Shown)	1	
	SP284	Handbrake Mounting Bracket (INT414)	1	
	SP291	Handbrake Mounting Bracket (INT434)	1	
	SPCL194	Seat Transfer Mounting Plate	1	
	SPCL193	Tractor to Seating Platform Stay	1	
	SPCL99	Operating Lever Arm Rear (Replaces SPCL96)	1	

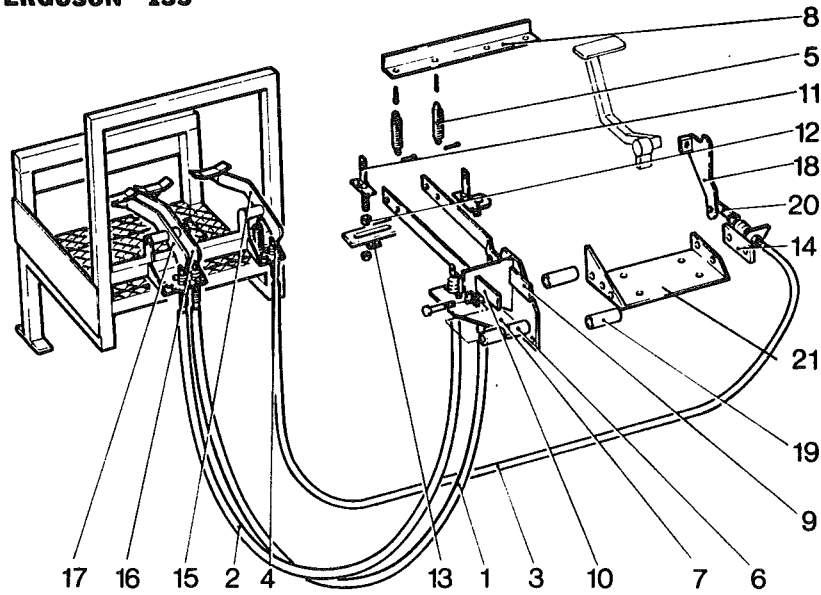
FORD 3000



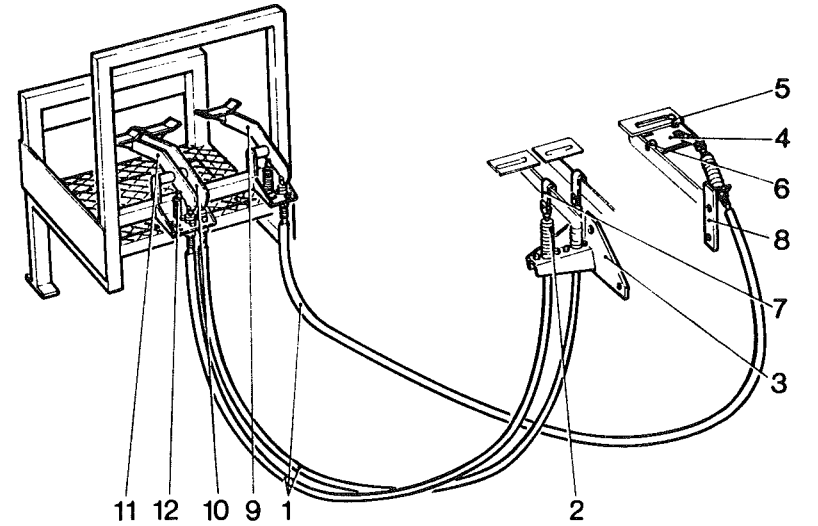
DAVID BROWN



FERGUSON 135



INTERNATIONAL



PULVERISOR

Item No.	Part No.	Description	Qty per Assy	Remarks
1	SP471	Counter Shaft Bracket Adjuster	1	
2	SP476M	Bearing Bracket	1	
3	SP475	Drive Chain Guard Bracket	1	
4	SP474	Main Drive Chain Guard	1	
5	SP383	Cutter Head Guard Support Bracket	2	
6	TBMW250	Sprocket	1	
7	PS666/34	Chain	1	
8	SP376M	Cutter Head Drive Pulley	1	
9	SP470M	Counter Shaft Bracket	1	
10	C35	Spacer	1	
11	B32	Spacer	1	
12	SP472M	Counter Shaft	1	
13	TBMW250	Sprocket	1	
14		Gib Head Key (for items 8 & 13)	2	
15	PV18/85	Brammer Belting	1	
16	SP257M	Clamp Bars (for item 17)	2	
17	SP370A	Cutter Head Support Bar	1	
18	SP478M	Bearing Bracket	1	
19	SP372M	Cutter Head	1	
20	KT7M	Pulley	1	
21	SP375M	Topping Head Shaft	1	
22	KT4/5	Cutter Plate	2	
23	KT19M	Clamps	2	
24	KT6M	Spacers	4	
25	SPCL196	Cutter Head Belt Guard	1	
26	SP384M	Cutter Head Guard	1	
27	SP385	Cutter Head Guard Sleeve	1	
28	SFT30A	Pollard Bearings	4	

INDEX

Part No.	Page No.	Qty per Assy	Remarks	Part No.	Page No.	Qty per Assy	Remarks	Part No.	Page No.	Qty per Assy	Remarks
SPCL1M	13	1		SPCL115AM	19	1		SPCL517	35	1	
SPCL3M	17	1		SPCL116	19	1 pr		SPCL518	35	1	
SPCL4M	17	1		SPCL117	39	1		SPCL519	31	1	
SPCL5AM	17	1		SPCL118M	35	1		SPCL520	35	1	
SPCL6M	17	1		SPCL120M	19	2		SPCL533	13	1	
SPCL7M	17	1		SPCL121M	19	1		SPCL534	13	1	
SPCL9	37	1		SPCL124M	19	1		SPCL535	25	1	
SPCL10	37	1		SPCL125	17	1		SPCL540	25	1	
SPCL13	17	1		SPCL127	45	1		SPCL541	25	4	
SPCL14A	17	1		SPCL129M	43	1		SPCL542	25	1	
SPCL15	17	1		SPCL131M	43	1		SPCL545	25	1	
SPCL16	17	1 pr		SPCL133	45	1		SPCL553	47	2	
SPCL17M	17	2		SPCL150	19	1		SPCL554	47	1	
SPCL18M	17	2		SPCL154	37	1		SPCL555	47	1	
SPCL19AM	17	2		SPCL156	19	1		SPCL556	47	1	
SPCL21AM	17	1		SPCL175	45	1		SPCL557	47	1	
SPCL22M	17	1		SPCL175M	13	1		SPCL558	47	6	
SPCL23M	17	1		SPCL176M	13	1		SPCL564	47	3	
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SPCL27M	31	1		SPCL181	45	1		SPCL581	43	1	
SPCL29M	31	2		SPCL181M	19	1		SPCL582	43	1	
SPCL30	31	4		SPCL182	45	1		SPCL584	43	1	
SPCL32M	35	1		SPCL182M	19	1		SPCL585	43	1	
SPCL36	35	3		SPCL183	45	1		SPCL590	43	1	
SPCL39M	35	1		SPCL193	45	1		SPCL591	43	1	
SPCL40A	19	2		SPCL194	45	1		SPCL592	43	1	
SPCL41A	17	1		SPCL196	49	1		SPCL593	45	2	
SPCL42AM	17	1		SPCL231	19	2		SPCL597	25	1	
SPCL44	17	1		SPCL232	19	2		SPCL604	47	1	
SPCL45BM	17	1		SPCL234	35	1		SPCL610	47	2	
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SPCL48	17	1		SPCL237	35	1		SPCL613	47	1	
SPCL49	17	1		SPCL238M	35	1		SPCL614	47	1	
SPCL50M	35	1		SPCL239M	19	1		SPCL615	47	1	
SPCL51M	35	1		SPCL240M	19	1		SPCL616	47	1	
SPCL52M	35	1		SPCL260AM	19	1		SPCL617	47	1	
SPCL53M	35	1		SPCL261M	19	1		SPCL618	47	1	
SPCL55	17	27		SPCL262M	19	1		SPCL619	47	2	
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SPCL59	19	1		SPCL274	31	4		SPCL623	47	1	
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