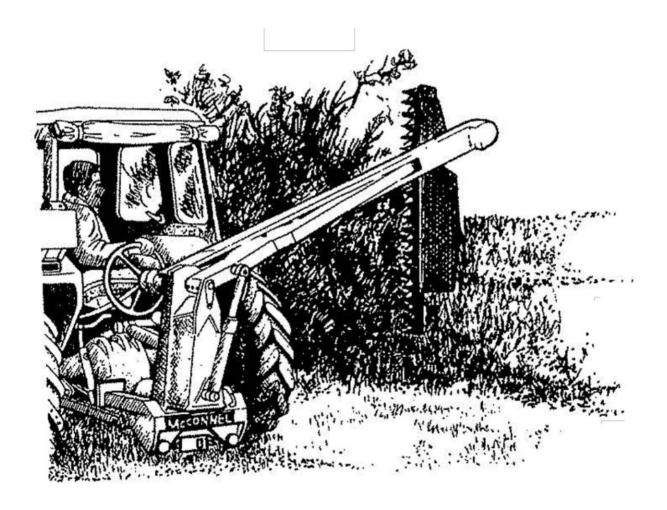
SWINGOVER HEDGER

OPERATION AND SPARE PARTS MANUAL



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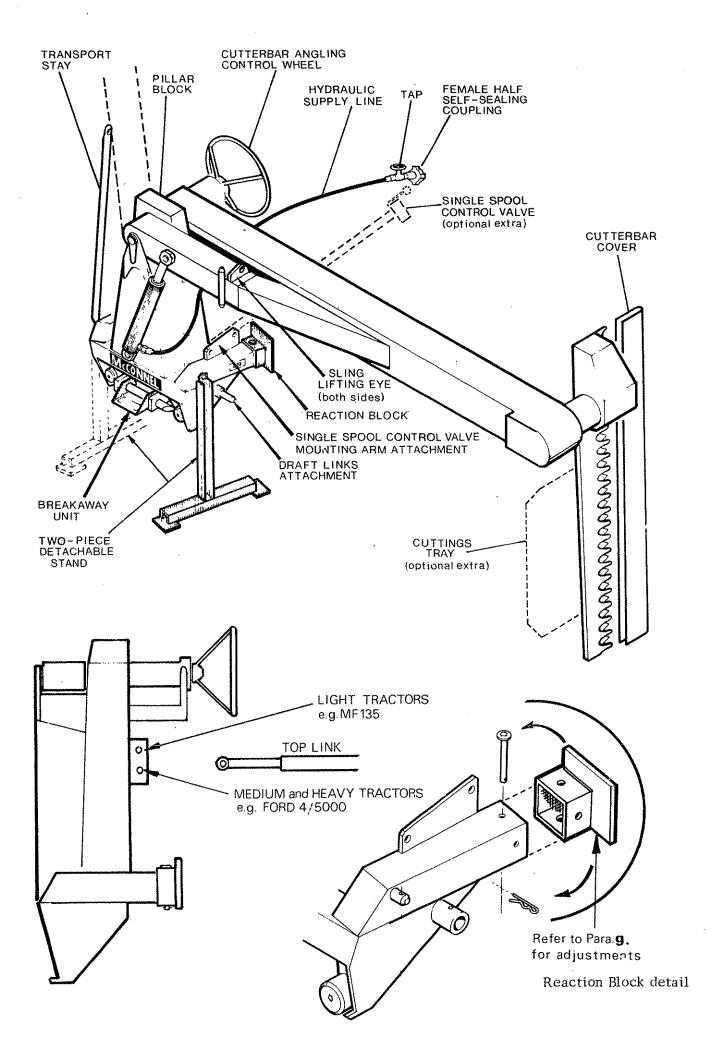
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WARNING

SAFETY PRECAUTIONS

NEVER	••••	leave the PTO engaged when the tractor is unattended.
	* * * *	exceed 400 RPM on the PTO shaft.
		operate the machine without safety guards covering PTO shaft drive belts and chain in position.
	••••	park or transport machine with the main arm vertical.
*		operate machine with the breakaway device 'locked'.
	****	raise machine on the tractor linkage after the PTO driveshaft is fitted.
ALWAYS	••••	when travelling on a public highway, the transport stay should be fitted, the breakaway device locked and the cutterbar turned inboard over the cab roof.
	••••	make sure there is adequate clearance around tractor before carrying out 'swingover' operation.
	****	before operating machine ensure hydraulic hoses are not kinked frayed or trapped.



SECTION 2 FITTING INSTRUCTIONS

Tractor requirement and preparation

- a) Tractor hydraulic pump should be serviceable and capable of delivering a minimum pressure of 2000 psi.
- b) LINKAGE ISOLATION IS ESSENTIAL ON ALL TRACTORS.
- CAUTION: The push/pull control knob on Ford isolation valves should be protected against accidental engagement. It should be retained in the 'out' position at all times.
- c) Lower draft links and ensure both are set at the same height above level ground by adjusting levelling box.
- d) Adjustable stabilizer bar or check chains must be used.
- e) Leave tractor PTO shield in place.

Machine preparation and fitting

- a) Remove transport stay placing the cutter bar on the ground.
- b) Remove the reaction blocks and reverse tractor, stop engine before attaching draft links and stabilizer bar to the machine linkage pins. (use sleeves for Category II linkage).

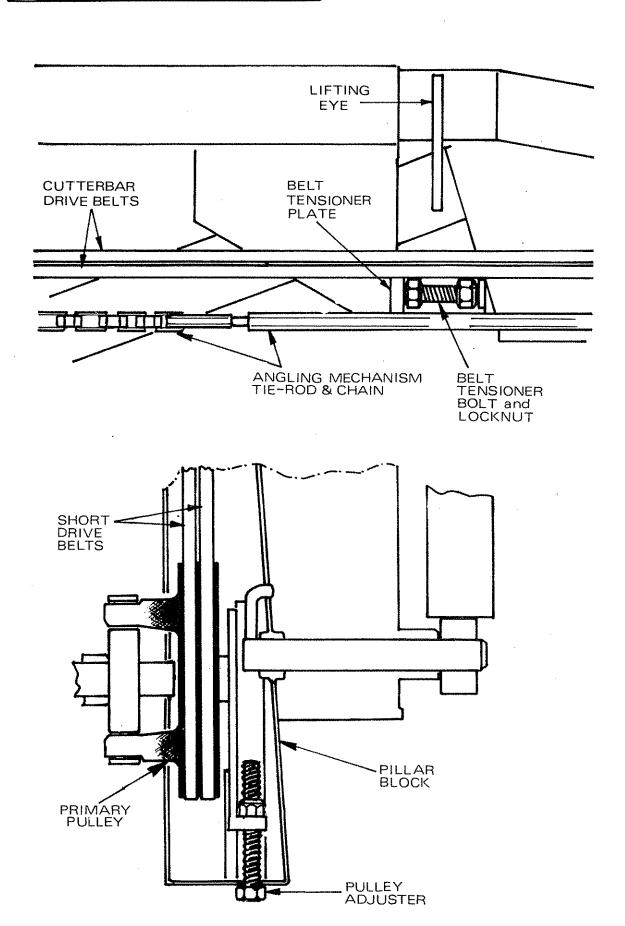
NOTE: Care should be taken to see that the rear tractor wheel does not foul cutter bar.

- c) Fit top link to machine and couple to tractor.
- d) Start tractor and raise machine sufficiently to take the weigh fit and adjust stabilizer on tractor to centralize the machine.
- e) Connect the swingover's hydraulic supply line to the tractors isolated hydraulic system.
- f) Raise machine on linkage sufficiently to remove support legs, then raise or lower to obtain PTO shaft alignment to within 15°. Do not fit the drive shaft at this stage.
- g) Fit reaction blocks so that the flange contacts the draft link. The reaction blocks can be rotated to four different positions and if necessary changed from side to side. Both blocks must be set to the same height.
- h) Lower the machine on the linkage and adjust top link to bring the pillar vertical.
- i) Fit PTO drive shaft and cover.

CAUTION: The drive shaft supplied with the machine should be long enough to provide the minimum shaft overlap of 3½" on most common tractors.

On tractors with long draft links eg. M.F. 185 an extra long drive shaft assembly should be fitted part number 10 80 144.

When changing the machine to an alternative tractor it may be necessary to cut off any surplus length of the internal tube to confirm to dimensions shown on page 10.



FUNCTIONAL CHECKS

After fitting the machine, carry out the following checks and adjustments making sure there is ample space around tractor and cab.

- a) With linkage isolated, start tractor, and open tap in hydraulic supply hose.
- b) Using tractor quadrant lever, raise the cutter bar 5' off the ground and check that the machine is level. Then lower the cutter bar to ground noting its rate of descent.
- c) To suit tractor oil viscosity rate of descent can be adjusted as follows:-
 - (i) With cutter bar resting on ground, stop tractor.
 - (ii) Remove hydraulic hose from ram which will reveal a slot headed screw.
 - (iii) Turn CLOCKWISE to slow rate of descent. Turn ANTI-CLOCKWISE to increase rate of descent.

Cutterbar

With the tractor p.t.o. disengaged and the engine stopped, remove the belt guards and pull along the 'V' belts to operate the knife through its full cycle of movement. Any tight spots should be investigated. It is possible for the cutterbar mechanism to be damaged or otherwise become misaligned during shipment.

Refer to page 11 Cutterbar Maintenance for adjustment.

Knife drive

The connecting rod guard additionally carries wear strips which support the knife heel. A check for overheating should be made by operating the machine for a few minutes under no load at about 250 r.p.m. on the p.t.o. Stop tractor and place a hand against the guard in the area of the wear strips. Although it is expected that the guard will get warm, the guard should be re-adjusted if hot spots occur. See page 12

Drive belt tension check

- a) Drive belts in the pillar block assembly should have approximately %" deflection midway between pulleys. The adjuster (see Fig. 4) is situated in the base of the pillar.
- b) Cutterbar drive belts should be tightened sufficiently to eliminate slip during normal working. After any adjustments, the tensioner locknuts should be securely tightened. Belt tension should be checked frequently in the first few hours of work.

Angling Mechanism Chain Tension Check

With the machine arm and cutterbar parallel to ground on the left hand side of the tractor there should be $1\frac{1}{2}$ " of vertical movement at cutterbar tip. Adjustment is made on chain tensioner as shown on page 10.

If the chain is too tight then excessively stiff cutterbar angling will result.

General

Machine should be thoroughly lubricated according to the maintenance chart. All hydraulic connections checked for leaks, and hoses are not kinked or fouled.

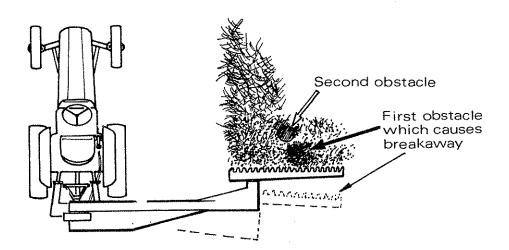
SECTION 3 OPERATION

The following points should be observed.

- a) PTO Speed Recommended range between 280 400 RPM. Run at a speed that gives the smoothest operation consistant with good performance.
- b) Linkage Isolation On some tractors linkage isolation is not completely positive, therefore the linkage may creep upwards when the swingover is being used. Should both reaction blocks lose contact with the tractor draft links, the pillar assembly could become unstable and detached from the linkage lift frame. If this creeping occurs, return tractor quadrant lever to neutral, de-isolate linkage to allow machine to settle then isolate linkage again before operating quadrant lever.

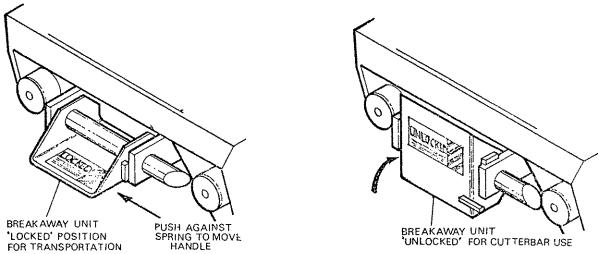
c) Breakaway Action

The automatic self-returning breakaway device has been designed to reset the cutterbar within the limits of its travel. The cutterbar will still operate when the breakaway comes into action, therefore operators are warned not to continue driving forwards with the main arm back against the breakaway stop. If another obstacle was encountered, damage to the machine could result.



When the breakaway action occurs and the cutterbar rises out of work, allow the knife to run free before moving forward again.

Do not attempt to use the machine with the breakaway locked.



d) Swingover Action

The cutterbar can be operated on either side of the tractor. Make sure there is adequate clearance and headroom before carrying out the following:-

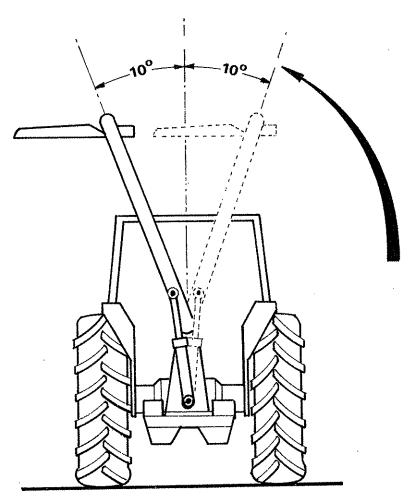
- i Raise the arm about 6ft. off the ground and angle cutterbar to the inboard position.
- ii Raise the arm quickly to about 10° of the vertical position and return control lever to neutral. The momentum of the cutterbar will carry the arm over the vertical centre position and bring it to rest about 10° after vertical.
- iii A lowering movement of the control lever will lower the arm to working position. After a little practice, this operation can be carried out very smoothly.

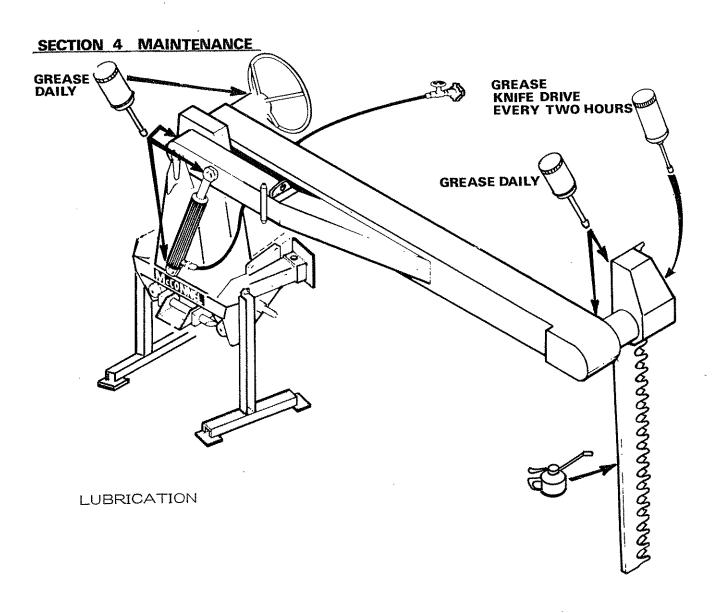
CAUTION

Do not continue to hold control lever in raised position when the arm is vertical or damage to the ram and arm could result.

NOTE

The speed of lift is determined by the tractor engine speed and is in no way controlled by the restrictor in the ram.





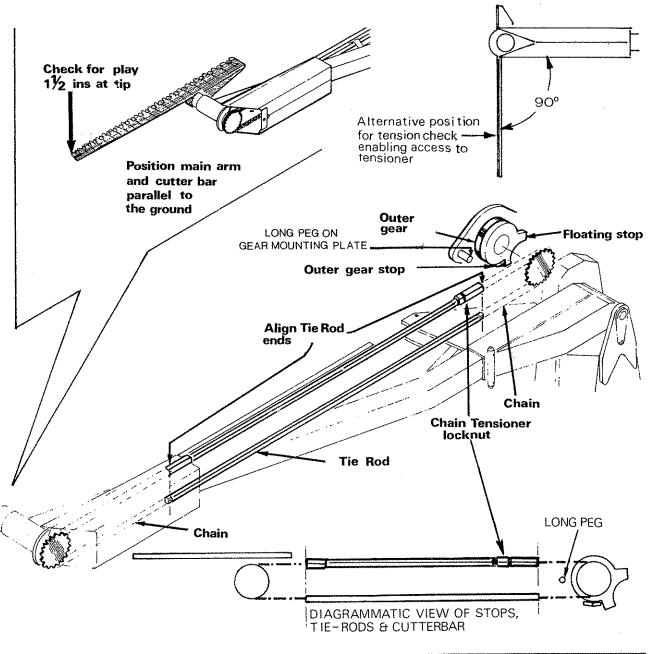
STORAGE

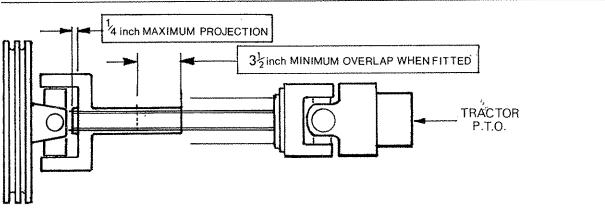
Ensure the swingover is stored on firm level ground and in a safe place. The machine is perfectly stable with the cutterbar tip resting on the ground but the cutterbar should be wrapped and protected against corrosion.

Slacken off drive belts and check their condition, also check the cutterbar, sections, knife clips, connecting rod etc. so that replacements can be ordered.

Lubricate all polished surfaces and apply grease to the exposed portion of the ram rod. Place hydraulic hose where it will not be damaged and cover the self seal coupling with a plastic bag to avoid contamination.

ANGLING CHAIN TENSION AND TIMING DETAILS





PTO DRIVESHAFT FITTING

Cutterbar Maintenance

Examine knife clips, knife sections and finger sections for signs of wear and damage, and replace as necessary.

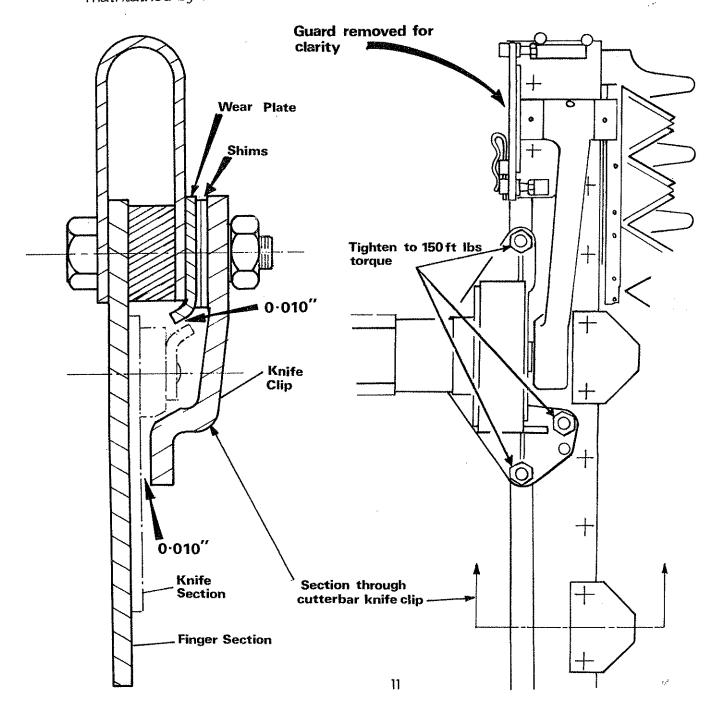
Note: Finger sections can be removed and turned over to give a longer working life.

All bolts must be kept tight. If cutterbar is removed for any reason the three mounting bolts should be tightened to 150 ft/lbs torque when refitting.

Knife Drive

Careful attention must be paid to the initial setting of the knife in the cutterbar. A running clearance of approx. .010" should be maintained between the knife back and the wear plate. This adjustment is obtained by loosening the bolts and nuts that retain the knife clip assembly and moving the wear plate in its slotted holes.

Clearance of .010" between the knife clip and knife section must be maintained by removal of shims.

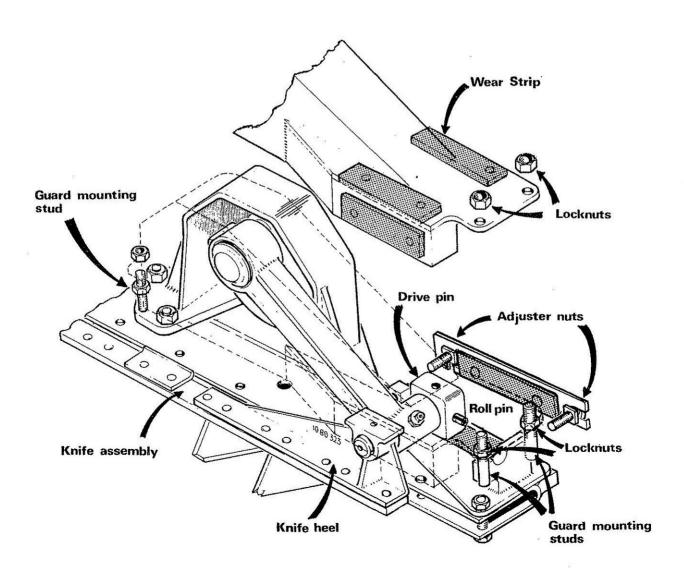


Drive guard adjustment.

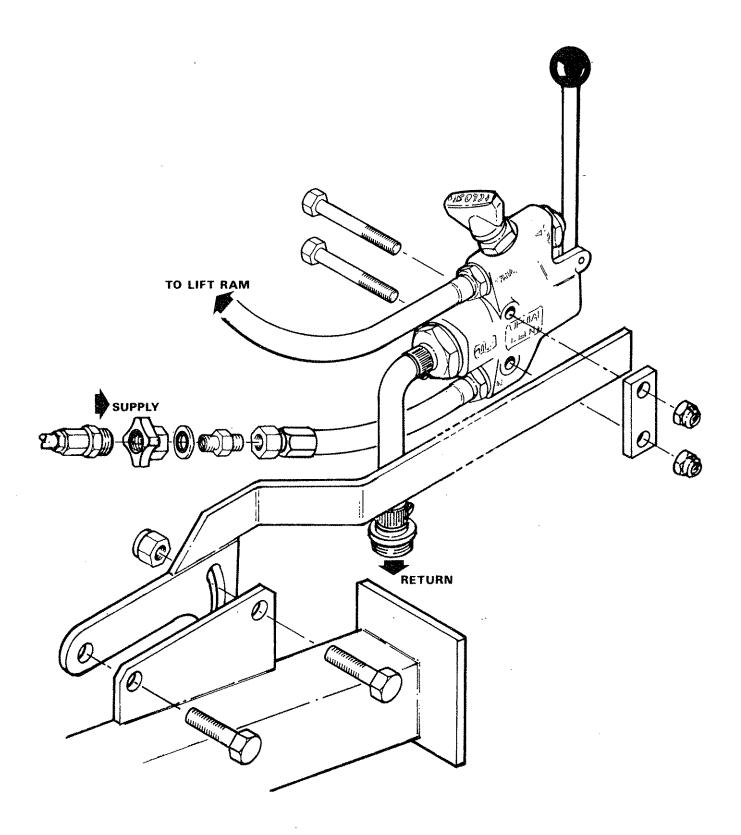
The drive guard which supports the knife heel is suspended on three mounting studs. The lower locknuts on these studs must be adjusted so that the guard does not exert excessive pressure on the sliding surfaces of the knife heel when the upper lock nuts are tightened. The guard should be evenly adjusted on the three studs to give a sliding clearance between the wear strips and the top faces of the knife heel and square headed pin. Excessive clearance will cause 'hammering' and eventual failure of the studs and knife back. If adjustment is too tight the rubbing surfaces will rapidly overheat.

The square headed pin is located by the retainer plate and adjusted by two adjuster studs to give a light rubbing clearance. A roll pin embedded in the side of the square head enables the drive pin to be correctly assembled for lubrication purposes.

All locknuts should be firmly tightened after completing adjustment.



SINGLE SPOOL CONTROL VALVE



McConnel Control Valve

Whenever difficulty is experienced in finding and holding a neutral position of the tractor hydraulic control lever it is recommended that a McConnel Single Spool Control Valve is fitted. The Single Spool Control Valve is designed to provide a more positive and safer control of the SWINGOVER Hedger. The control valve assembly can be fitted on either side of the SWINGOVER linkage lift frame for the convenience of the operator.

Spare Parts Manual SWINGOVER HEDGER



FOR BEST PERFORMANCE....

USE ONLY MCCONNEL SPARE PARTS

To be assured of the latest design improvements purchase your genuine replacements from the original equipment manufacturer F.W.McConnel Ltd. through your local dealer or stockist.

Always quote machine type and serial number as well as the part number.

Design improvement may have altered some of the parts listed in this manual - The latest part will always be supplied when it is interchangeable with an earlier one.

THE DOT SYSTEM

Many spares are supplied as Assemblies or as Sub assemblies and to help the customer determine the composition of an Assembly the Dot System is used. The Main Assembly will not show a dot preceding its description and is printed in BLOCK CAPITALS. Subsequent listed parts are preceded by one or more dots until the next major assembly is reached. An increase in the number of preceding dots indicates that the item is an associated part of the preceding item. Whenever the number of dots are decreased by one this indicates the termination of an assembly.

PILLAR, LIFT FRAME & BREAKAWAY UNIT

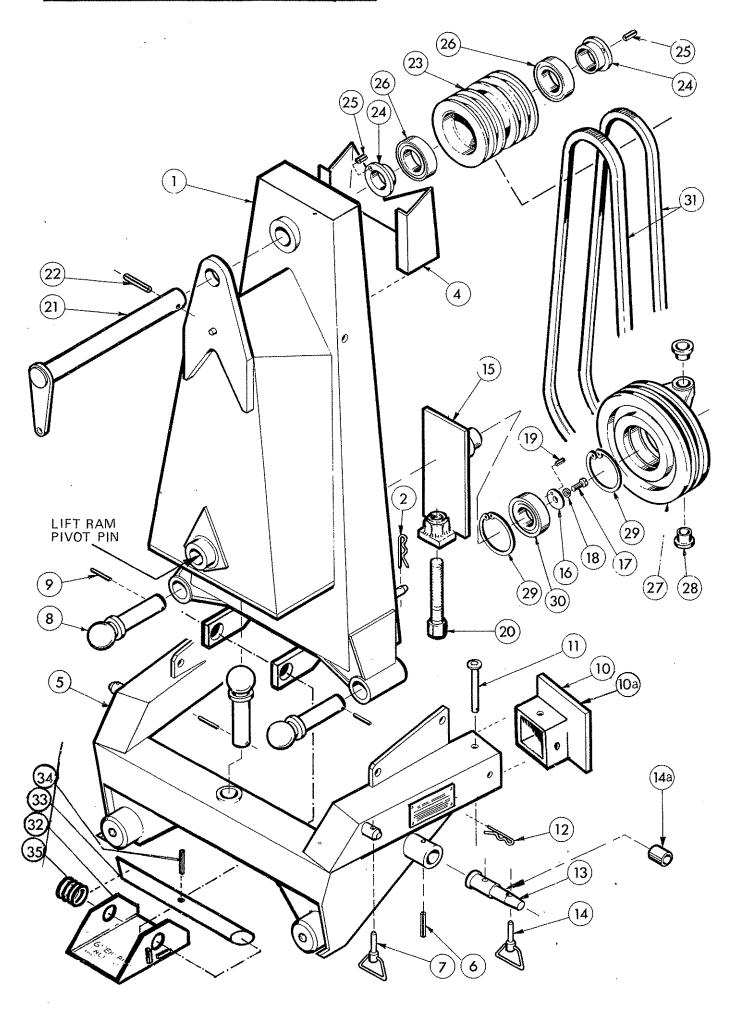


Illustration	Part		
Ref. Number	Number	Qty	Description
	10 80 250	1	SWINGOVER HEDGER ASSEMBLY
			consisting of:-
1	10 80 251	1 .	.Pillar Assembly c/w spring cotters
2	04 31 105	2	Spring cotter
3	14 67 049	1	Top hitch pin (if fitted) c/w chain
			and split pins
3a	14 67 063	1	Sleeve (if fitted)
4	10 80 058	1	.Loose guard (Pillar Assembly)
5	10 80 257	1	.Linkage lift frame c/w pins
6	04 22 714	2	Spring dowel 7/7" x 7/16" dia.
7	04 31 217	1	Linchpin
8	10 80 028	3	.Breakaway ball pin c/w spring dowel
9	.04 21 628	3	Spring dowel 1¾" x 3/16" dia.
10	10 80 029	1	.Reaction block, R.H. c/w location
			pin
10a	10 80 030	1	.Reaction block, L.H. c/w location
		ii ii	pin
11	10 80 080	2	Location pin & spring cotter
12	04 31 105	2	Spring cotter
13	10 80 069	2	.Linkage pin c/w spring dowel
14	04 21 628	2	Spring dowel,l¾" x 3/16" dia.
14a	14 67 096	. 2	Sleeve (if fitted)
15	10 80 056	1	.Belt adjusting bracket c/w special
			washer, setscrew, spring washer &
			spring dowel
16	10 80 057	1	Special bearing retaining washer
17	03 11 085	1	Setscrew,1" x ½" UNF
18	01 00 205	1	Spring washer, ½" dia.
19	04 21 810	1	Spring dowel, $5/8" \times 4"$ dia.
20	10 80 042	1	.Belt tensioner bolt
21	10 80 024	1	.Arm pivot pin c/w spring dowel
22	04 21 836	1	Spring dowel, $2\frac{1}{4}$ " \times $\frac{1}{4}$ " dia.
23	10 80 270	1	.Counter pulley
24	10 80 059	2	.Counter pulley bearing carrier
			c/w spring dowel
25	04 21 810	2	Spring dowel, 5/8" x ¼" dia.
26	06 00 013	2	.Ball bearing assembly
27	10 80 269	1	.Primary pulley c/w bushes & circlips.
28	60 02 150	2	Bush
29	04 16 280	2	Circlip, internal
30	06 00 009	1	.Ball bearing assembly
31	10 80 210	2	.V-belt, short (matched set)
32	10 80 294	1	.Breakaway lock handle
33	10 80 125	1	.Breakaway lock bar c/w spring dowel
34	04 22 628	1	Spring dowel 1¾" x 3/8" dia.
35	10 80 126	1	.Breakaway lock spring

ANGLING MECHANISM, STOPS & ARM SOCKET

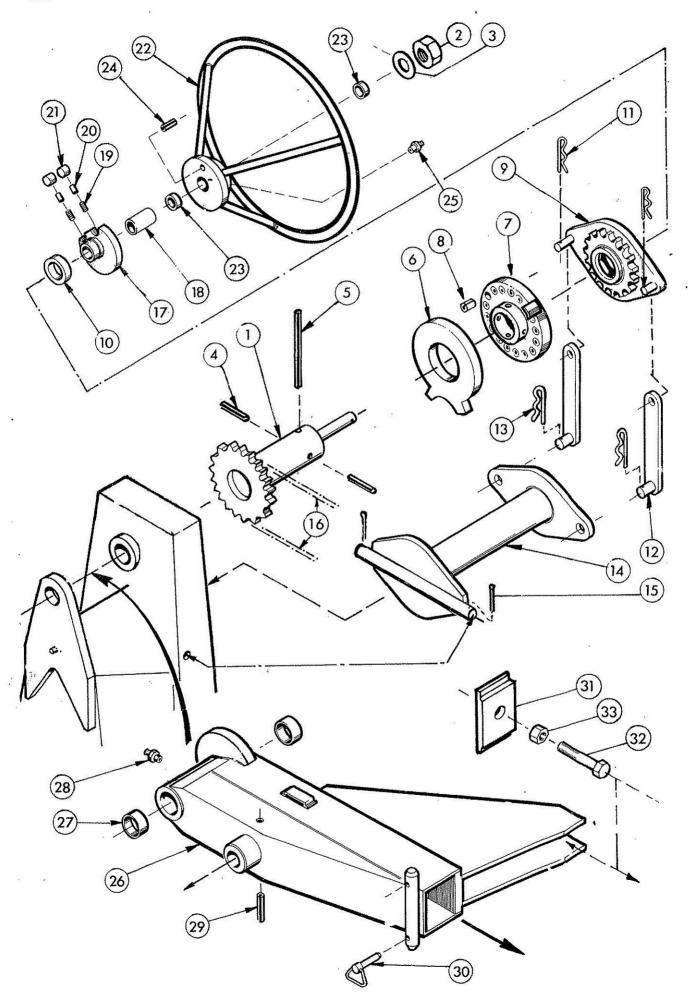
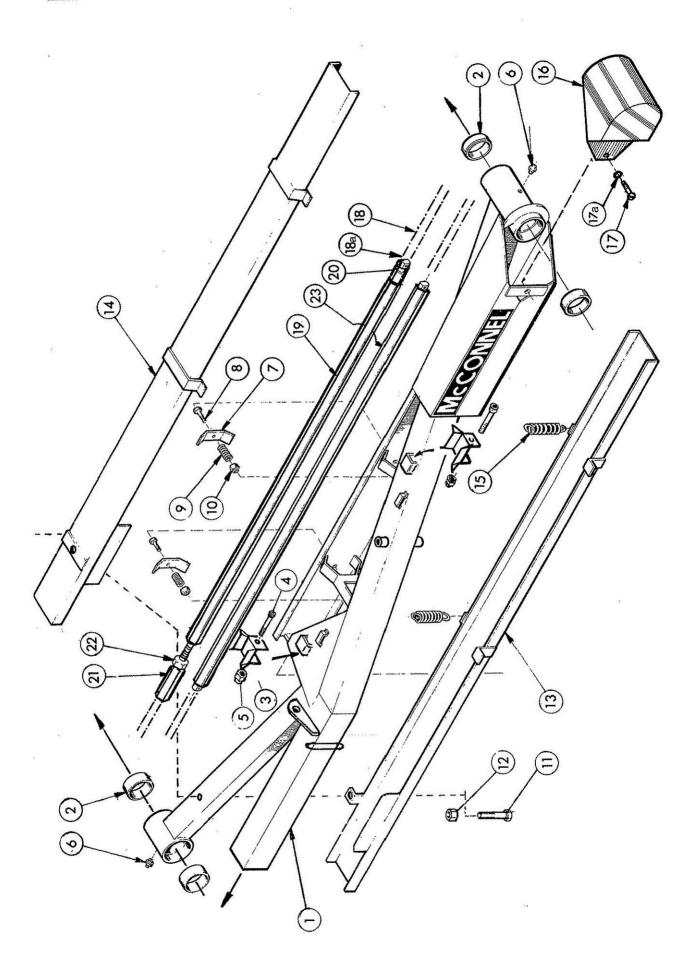
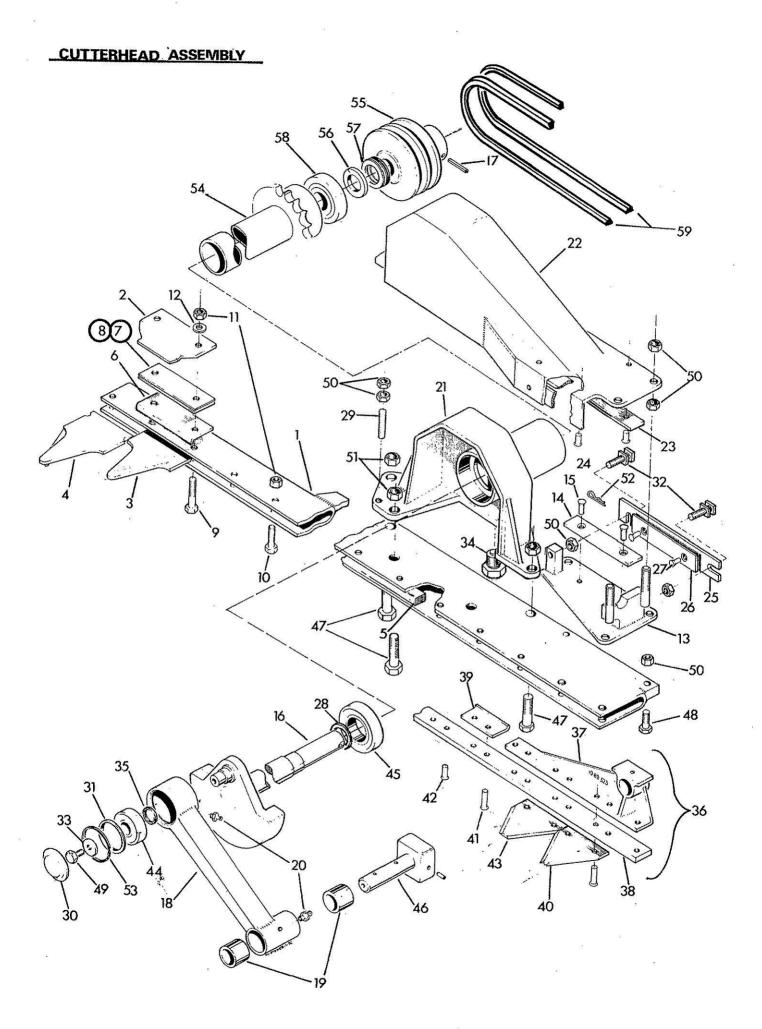


Illustration	Part		
Ref. Number	Number	Qty	Description
			_
1	10 80 263	1	.Angling drive shaft c/w spring
			dowels, washer & nut
2	01 31 007	1	Aeronut
3 .	01 00 107	1	Washer
4	04 22 832	2	Spring dowel, 2" x½" dia.
5	04 22 856	1	Spring dowel, 3½" x½" dia.
6	10 80 051	1	.Floating stop
7	10 80 046	1	.Outer gear c/w spring dowels
8	04 22 714	20	Spring dowel
9	10 80 264	1	.Gear mounting plate c/w bush
	•	•	and spring cotters
10	10 80 047	1	Bush
11	04 31 105	2	Spring cotter
12	10 80 052	2	.Torque tube link c/w spring cotter
13	04 31 105	2	Spring cotter
14	10 80 266	1	.Torque tube
15	05 03 095	2	Split pin,1.1/8" x 3/16" dia.
16	10 80 054	2	.Chain
17	10 80 048	1	.Eccentric c/w bushes & springs etc.
18	10 80 142	1	Bush
19	81 14 009	2	Spring
20	10 80 050	2	Follower
21	10 80 049	2	Roller
22	10 80 265	1	 Angling control wheel c/w bushes and spring dowel etc.
23	60 01 216	2	Bush
24	04 22 824	1	Spring dowel,1½" x ½" dia. (if fitted)
25	09 01 121	1	Straight greaser (if fitted)
26	10 80 256	1	.Arm socket c/w bushes etc.
27	71 02 180	2	Bush
. 28	09 01 121	1	Straight greaser
29	04 22 640	1	Spring dowel, 2½" x 3/8" dia.
30	04 31 217	1	Linchpin
31	10 80 141	1	.Belt tensioner plate
32	10 80 042	1	.Long belt tensioner bolt
33	01 12 007	4	Locknut, ¾" UNC
		•	·

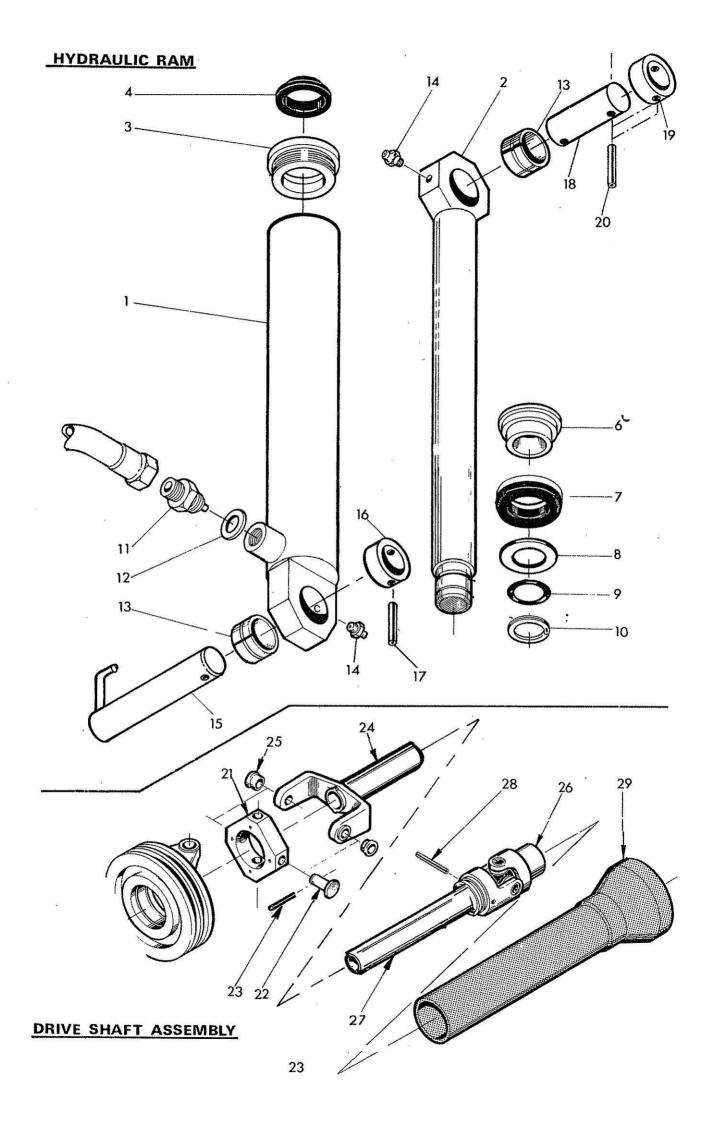
MAIN ARM & GUARDS



1 10 80 258 1 MAIN ARM ASSEMBLY c/w bushe 2 10 80 041 4 .Bush 3 10 80 110 4 .Belt guide 4 02 41 201 4 .Qapscrew 2½" x ¼" UNF 5 01 41 001 4 .Aeronut ¼" UNF 6 09 01 121 2 .Greaser 7 10 80 071 2 Rod clamp	
2 10 80 041 4 .Bush 3 10 80 110 4 .Belt guide 4 02 41 201 4 .Qapscrew 2½" × ¼" UNF 5 01 41 001 4 .Aeronut ¼" UNF 6 09 01 121 2 .Greaser	s etc.
3 10 80 110 4 .Belt guide 4 02 41 201 4 .Qapscrew 2½" x ¼" UNF 5 01 41 001 4 .Aeronut ¼" UNF 6 09 01 121 2 .Greaser	
5 01 41 001 4 .Aeronut ¼" UNF 6 09 01 121 2 .Greaser	
6 09 01 121 2 .Greaser	
7 10.80.071 2 Rod clamp	
,	
8 02 11 183 2 Bolt 2¼" × 3/8" UNF	
9 60 00 110 2 Spring	
10 01 61 003 2 Nyloc nut 3/8" UNF	
11 02 11 243 1 Bolt 3" × 3/8" UNF	
12 01 41 003 1 Aeronut 3/8" UNF	
13 10 80 260 1 Top guard	
14 10 80 261 1 Lower guard c/w spring catches	
15 70 14 052 2 .Spring catch	
16 10 80 262 1 Crankshaft pulley guard c/w setscr	rew
17 03 11 065 1 .Setscrew ¾" × ½" UNF	
17a Spring washer ½"	
18 10 80 054 2 Chain	
18a 60 01 165 4 Chain connecting link	
19 10 80 267 1 Chain tensioner assembly	
20 10 80 132 1 .Turnbuckle L.H.	
21 10 80 133 1 .Turnbuckle R.H.	
22 01 11 004 1 .Locknut	
23 10 80 268 1 Tie bar	



Ref	Part No	Qty	Description	
	10 80 280	1	CUTTERHEAD ASSEMBLY	
	10 60 326	1	.Cutterbar assembly	
1	10 80 325	1	Cutterbar pressing assembly	
2	10 80 100	5	Knife clip	
3	10 80 098	21	Finger	
4	10 80 101	1	End finger	
5	10 80 291	1	Distance bar	
6	10 80 099	5	Wear plate	
7	10 80 102	As req'd	Shim 2 mm	
8	10 80 103	As req'd	Shim 5mm	
9	92 13 085	15	Bolt 10 × 40 mm	
10	92 13 065	9	Bolt 10 x 30 mm	
11	10 80 107	23	Nut 10 mm Spring washer 7/16"	
12	01 00 204 10 80 324	10	Spring washer 77 to	
13 14	10 80 324	1	Wear strip	
15	10 80 097	2	Rivet 6mm × 15 mm	
16	10 80 171	1	.Crankshaft assembly c/w spring dowel	
17	04 22 740	1	Spring dowel 2½" x 7/16" dia.	
18	10 80 322	1	.Con rod c/w bushes and greasers	
19	71 01 083	2	Bush	
20	09:01 121	2	Greaser 1/8" BSP (straight)	
21	10 80 320	1	.Cutter bar mounting bracket	
22	10 80 321	1	.Guard c/w wearstrips and rivets	
23	10 80 153	3	Wear strip	
24.	10 80 097	6	Rivet 6mm x 15mm	
25	10 80 166	1	.Pin retainer c/w wear strip and rivets	
26	10 80 153	1	Wear strip	
27	10 80 097	2	Rivet 6mm x 15mm	
28	10 80 082	1	.Spacer	
29	10 80 168	1	.Stud	
30	10 80 172	1	.Shield	
31	10 80 173	1	.Spacer	
32	10 80 174	2	Adjuster stud	
33	10 80 175	1 .	.Special washer	
34	10 80 176 60 01 075	1 1	.Clamp bolt .Felt seal	
35 36	10 80 327	4	Saw tooth knifebar assembly	
36	10 80 328	1	Serrated knife bar assembly	
37	10 80 323	i	Knife heel	
38	10 80 287	1	Knife back	
39.	10 80 093	5	Cleaning plate	
40	10 80 094	21	Saw tooth knife section	
41	10 80 095	17 -	Rivet-6mm x 20mm long	
42	10 80 097	25	Rivet 6mm x 15mm, long	
43	10 80 096	21	Serrated knife section	
44	06 00 001	4	.Self aligning ball bearing	
45	06 00 014	1	.Ball bearing	
46	10 80 152	1	.Heel pin c/w spring dowel	
	04 21 608	1	Spring dowel 3/16" x ½" long	
47	92 13 157	3	.Bolt M16 x 55	
48	92 13 065	2	Bolt Mt0 x 30	
49	93 13 045	1	.Screw M10 x 20	
50	91 13 005	10	.Plain nut M10	
51	81 00 001	3	.M16 Conelok nut	
52	04 31 105	1	Spring cotter	
53	04 12 136	1	.Internal spirolox ring	
54 55	10 80 281	1	Charles to the Charles to the Charles and the Charles to the Charl	
55 50	10 80 060	1	.Crankshaft pulley	
56	10 80 120	1 As martid	.Spacer	
57 58	10 80 115 06 00 009	As req'd	.Shim .Ball bearing	
59	10 80 209	•	.Set 'V' belts comprising:-	
0.0	09 17 421	2	'V' belt	
		_	A A S STATE OF THE	



Ref. No.	Part No.	Qty	Description	
	10 80 301	1	LIFT RAM ASSEMBLY comprising:	
[1	10 80 302	1	.Lift ram barrel	
. 2	10 80 116	1	.Ram rod	
* 3	10 80 117	1	.Head bush c/w wiper seal	
4	86 29 115	1	Wiper seal	
_5	71 01 030	1	.Locking wire	
- 6	10 80 118	1	.Seal carrier	
7	86 34 131	1	.Seal	
8	10 80 119	1	.Seal retaining washer	
9	86 00 119	1	.'O' ring 1" i.d.	,
10	04 02 120	1	.Spirolox ring	
11	81 07 010	1	Adjustable restrictor	
12	86 50 103	4	Bonded seal 3/8" BSP	
13	71 05 037	2	Bush	•
14	09 01 121	2	Greaser 1/8" BSP	
15	10 80 022	1	Ram pivot pin c/w collar	
16	10 80 040	1	.Collar	
17	04 22 632	1	.Spring dowel	
18	10 80 023	1	Rod pivot pin c/w collar	
19	10 80 040	1	.Collar	
20	04 22 632	1	.Spring dowel	
			DRIVE SHAFT ASSEMBLY	
21	10 80 066	1	Spider – drive shaft	
22	10 80 067	4	Drive shaft pin c/w spirel pin	
23	04 42 520	4	.Spirol pin	
24	10 80 271	1	Yoke drive shaft c/w bushes	
25	60 02 150	2	.Bush	
*	10 80 061	1	Universal coupling c/w guard etc.	
26	10 80 063	1	.Universal coupling	
27	10 80 062	1	.Coupling tube	
28	04 22 640	4	.Spring dowel 2½" × 3/8"	
29	10 80 065	. 1	.Plastic guard	
*NOTE	Tractors wit		ong draft links e g. M.F. 185 use	
	10 80 144	1	Universal coupling c/w guard etc.	
	10 80 207	1	.Coupling tube	
**NOTE	Late model r	machines	are fitted with threaded ram cylinders	
•	10 80 304	1	Lift Ram barrel) Screw type	
	10 80 146	1	Head Bush) Screw type	
10 P	Locking wire	e 71 O1 O3	30 no longer required.	

McCONNEL SINGLE SPOOL CONTROL VALVE

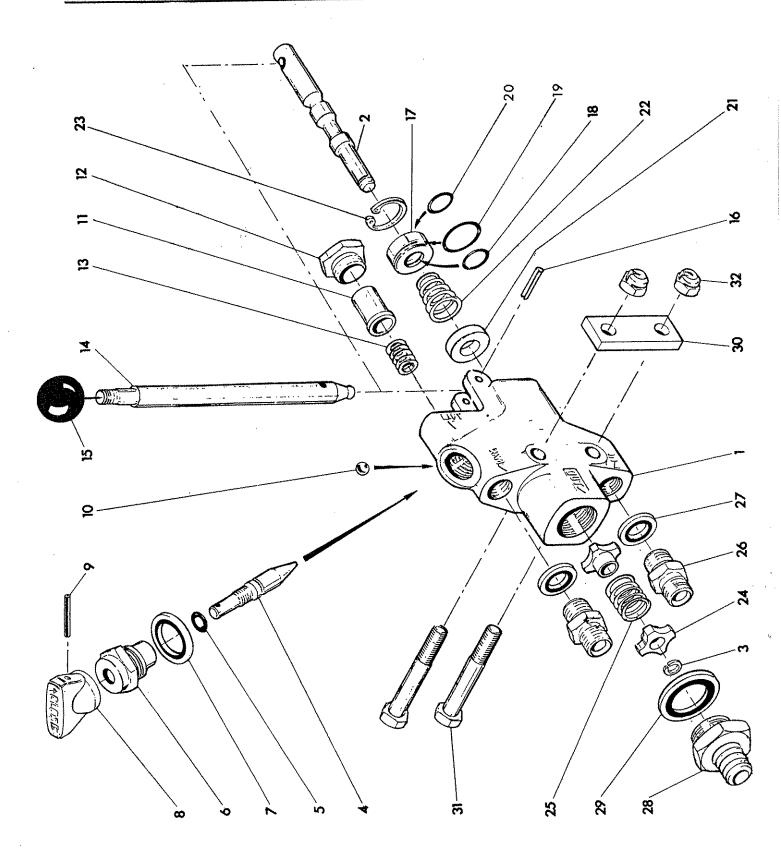


Illustration			
Ref. Number	Part Number	Qty	Description :
	81 06 270	1	SINGLE SPOOL CONTROL VALVE comprising:
1	81 06 271	1	. Valve body
2	81 06 032	1	. Valve spool c/w circlip
3	04 04 106	1	Circlip, External, 3/8" dia.
4	81 06 044	1	. Spindle c/w 'O' ring
5	81 06 045	1	'O' ring
6	81 06 043	1	. Gland nut
7	86 50 104	1	Bonded seal, ½" BSP
8	81 08 006	1	• Knob
9	04 20 820	1	. Spring dowel, 1¼" x 1/8" dia.
10	09 05 112	1	. Steel Ball, 3/8" dia.
11	81 06 037	1	. Stop
12	81 06 038	1	. Stop adjusting screw
13	81 06 041	1	. Spring
14	81 06 036	1	. Lever c/w ball knob
15	09 03 121	1	Ball knob
16	04 21 616	1	. Spring dowel, $1" \times 3/16"$ dia.
17	81 06 035	1	. Insert c/w 'O' rings & scraper
18	86 00 110	1	'O' ring,
19	86 00 401	1	'O' ring,
20	86 40 401	1	Scraper ring
21	81 06 022	1	. Seal
22	81 14 003	1	. Spring
23	81 14 077	1	. Circlip, internal, 1" dia.
24	81 06 039	2	. Spring register
25	81 06 047	1	. Spring
26	60 00 113	2	. Adaptor, 3/8" BSP x 3/8" BSP
27	86 50 103	2	Bonded seal, 3/8" BSP
28	81 06 040	1	. Return connection
29	86 50 106	1	. Bonded seal, ¾" BSP
30	81 06 042	1	. Clamp plate

Also required for the above valve to replace mounting arm 80 07 001 used with earlier type valve.

2

02 11 223

01 61 003

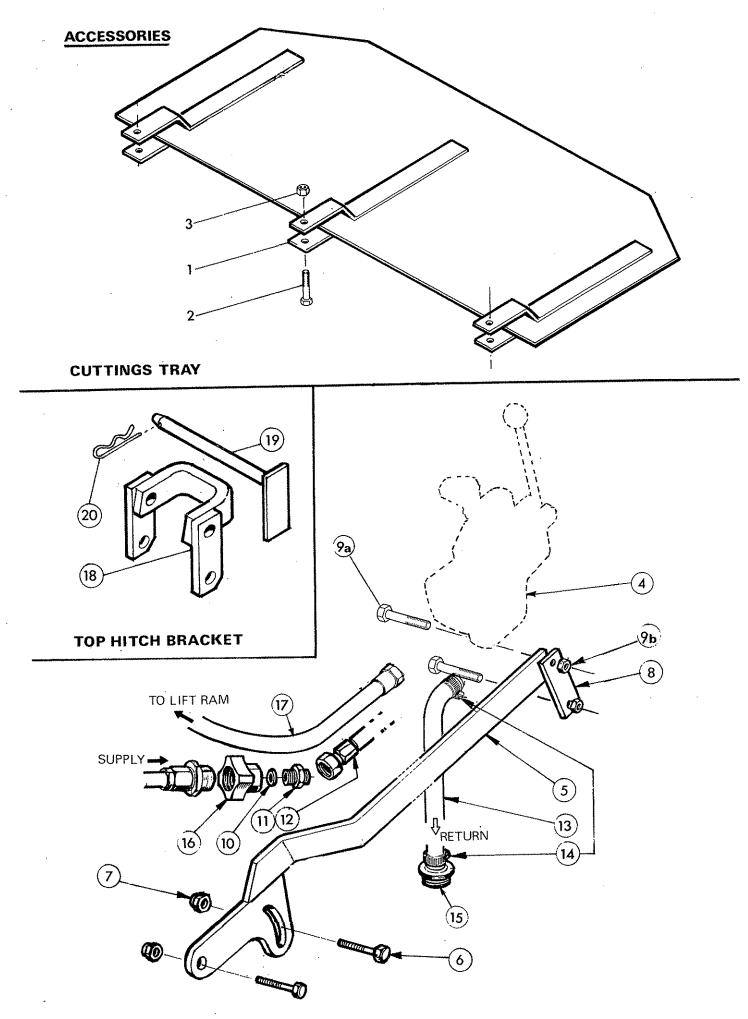
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80 06 001	1	Mounting arm
03 11 1 26	2	1½" × 5/8" UNF bolt
01 41 006	2	5/8" UNF aeronut

. Bolt, 2¾" x 3/8" UNF

. Locknut, 3/8" UNF



Ref. No.	Ref. No. Part No. Qty Description	Description	
1	10 80 293	1	Cuttings tray c/w nuts & bolts
2	10 80 105	3	.Raised cheese head boit
3	10 80 107	3	.Nut 10mm
	80 06 285	1	SINGLE SPOOL CONTROL VALVE KIT
4	8106270	1	.S/Spool control valve assembly
5	80 06 001	1	.Mounting arm
6	03 11 1 26	2	.Bolt 1½" × 5/8" UNF
7	01 41 006	2	.Aeronut 5/8" UNF
8	81 06 042	1	.Clamp plate
9a	02 11 223	2	.Bolt 2¾" × 3/8" UNF
9b	01 61 003	2	.Aeronut 3/8" UNF
10	86 50 103	1	.Bonded seal 3/8" BSP
11	60 00 1 1 3	1	.Adaptor 3/8" x 3/8" BSP
12	85 11 043	1	.Hose 58" long S/S
13	85 05 058	1	.PVC hose 5/8" bore
14	09 04 204	2	.Hose clips
15		4	.Return connection (according to tractor model)
16	85 90 023	1	Self seal coupling
17	85 41 003	1	Flexible hose 73" long S/135°

The following items are special equipment only

18	10 80 130	1	Top hitch bracket c/w pin
19	10 80 129	1	.Top hitch pin
20	04 31 105	1	Spring cotter

NOTE

The above mentioned hitch pin is for $M.F.\ 135$ Ford 2000 & 3000 require two top hitch pins.

