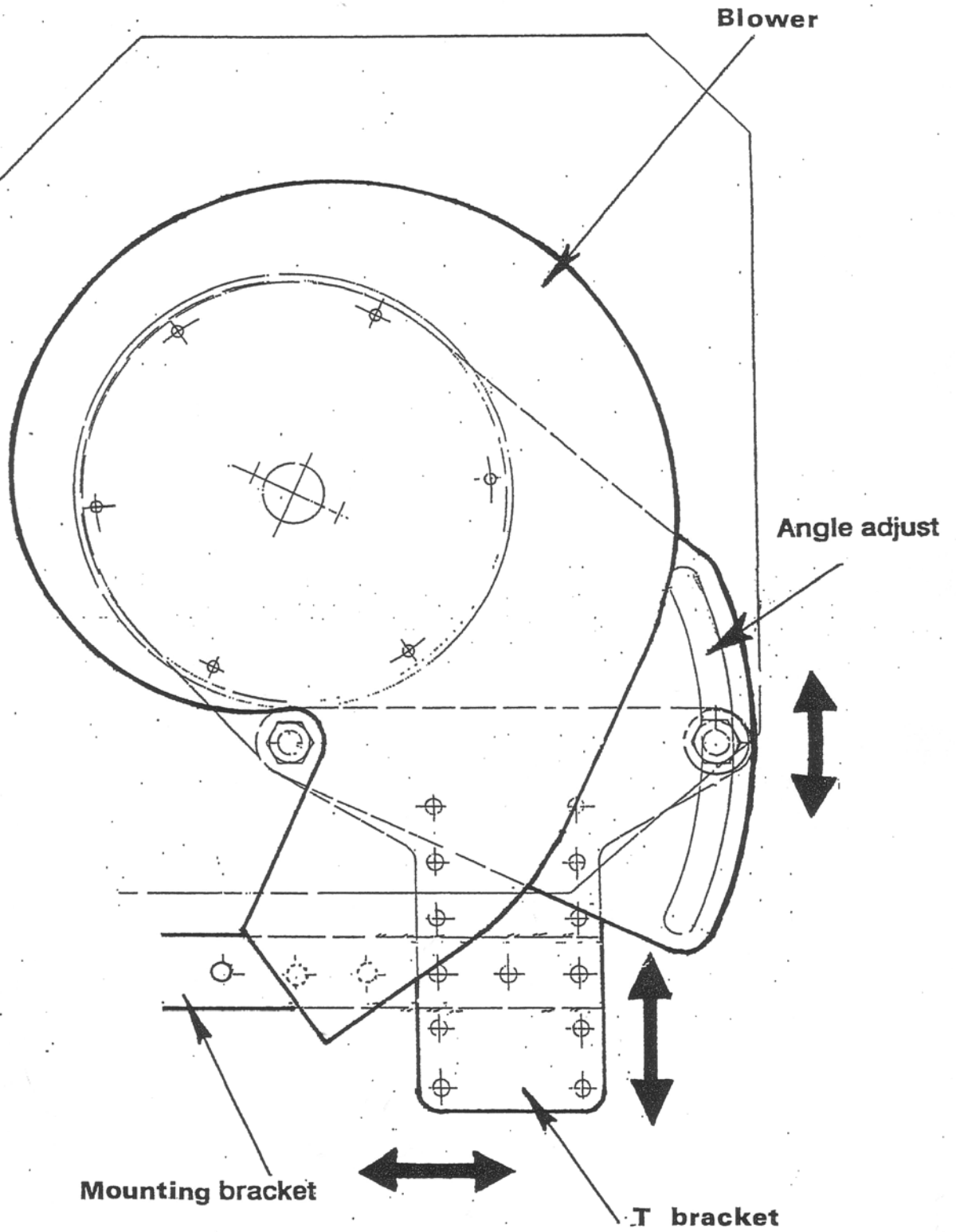


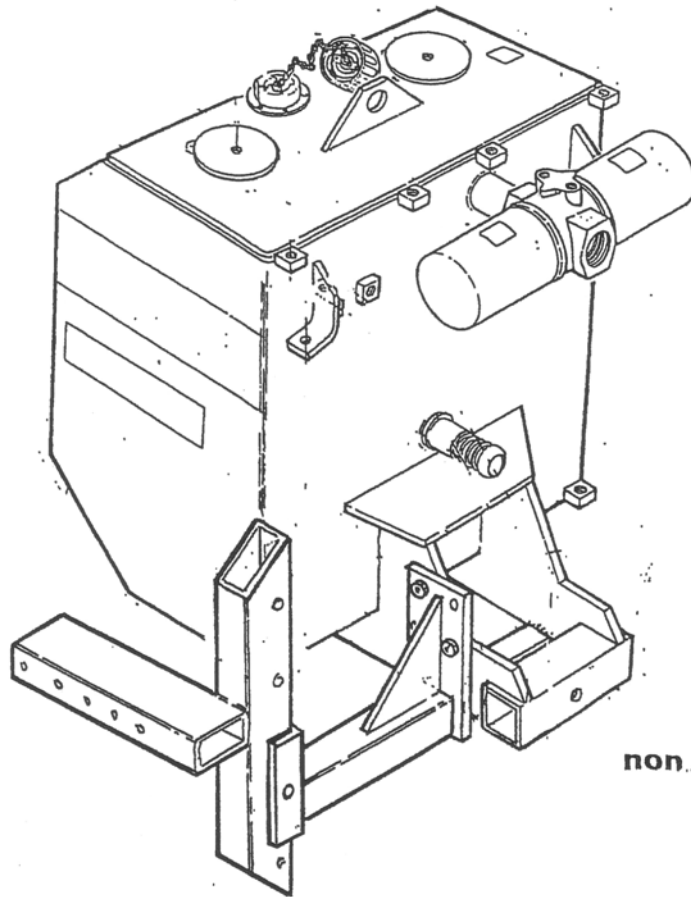
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DEBRIS BLOWER -2

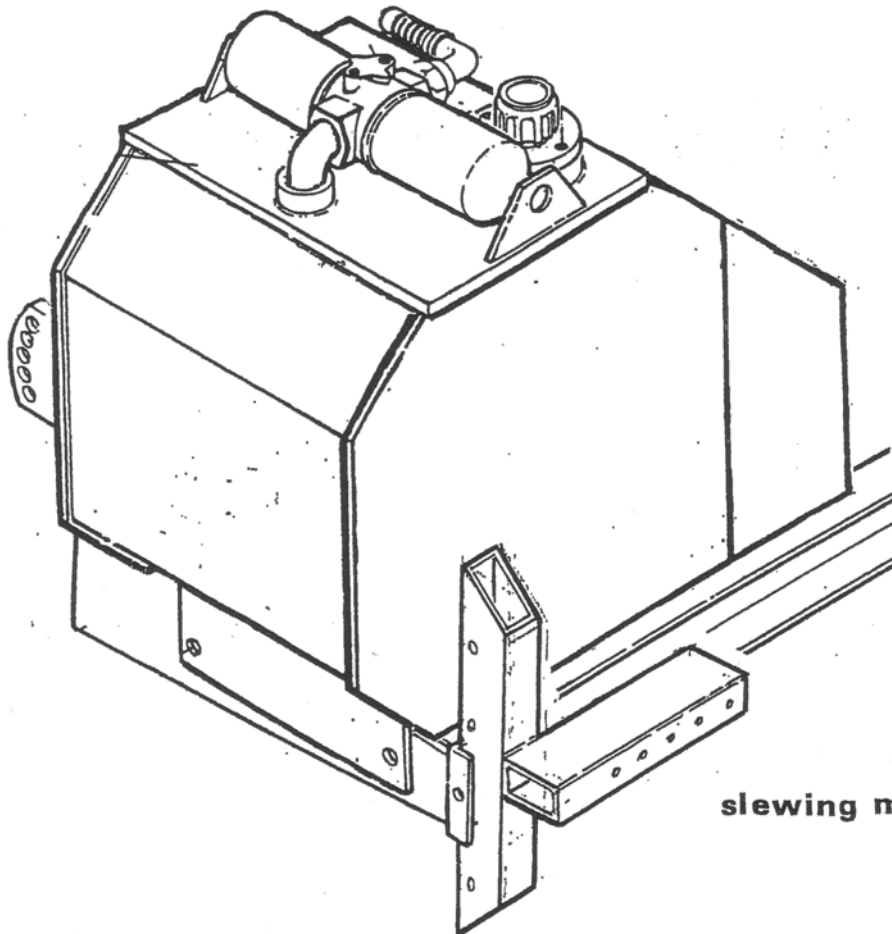


The debris blower is a self contained optional kit which blows the debris generated during flail operations off the road and onto the verge.

Fitting.



non slewing machines



slewing machines

A 'T' shaped plate which carries the blower unit is bolted to the carrier bracket both are equipped with a series of holes which allows vertical and side to side adjustment.

The blower carrier bracket which is bolted to the 'T' plate is furnished with a radial slot to allow the angle of the blower to be adjusted.

Note :- when fitting is complete there should be 36mm (1 1/2 ins) clearance between the rear of the tank and the blower motor.

It is the aim to mount the blower as far as possible towards the outside edge of the tank to give maximum coverage of the road. The height to the centre of the blower from the ground should be approximately 650mm (26 ins) whilst the angle is decided by operation experimentation.

These settings are recommendations for general flail operations. It is permissible to vary the mounting positions should special individual conditions require it.

TRACTOR OIL FLOW RATES

Tractors with a closed centre hydraulic system or with an oil flow capability of less than 36 l/min should be fitted with the low flow debris blower. For those with a flow capacity of 36 l/min and above the high flow debris blower should be fitted.

Working a high flow debris blower on a low flow tractor will result in considerably reduced blow.

Working a low flow debris blower on a high flow tractor will result in the same degree of blow but the oil will overheat.

HYDRAULIC CONNECTIONS FOR TRACTORS WITH OPEN CENTRE HYDRAULICS

Debris Blower Operator Instructions

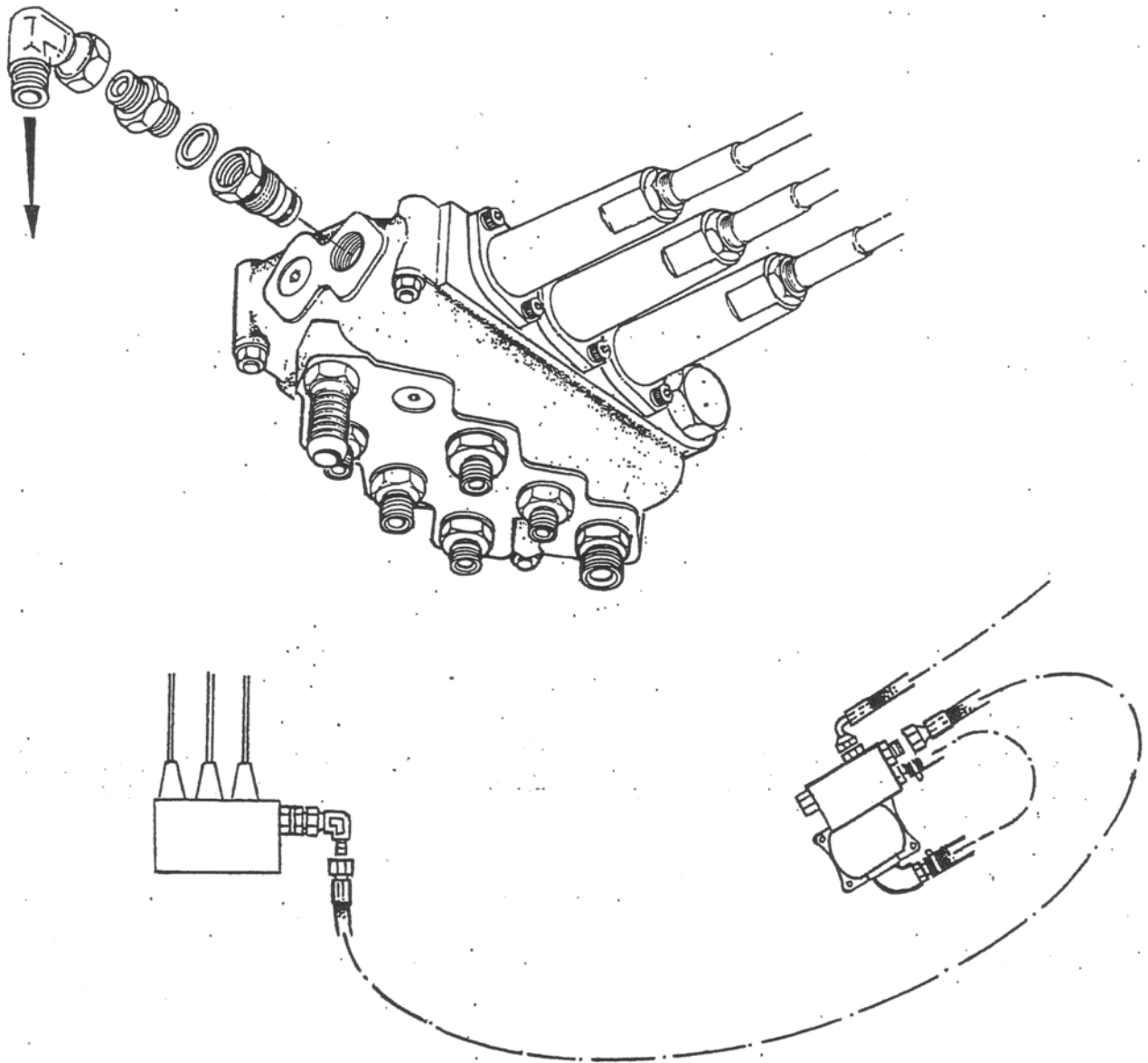
The oil supply hose should be connected to a single acting spool valve, a double acting spool valve with float or if neither of these are available a double acting spool valve. The return hose must be connected to a free flow return, note quick release couplings must not be used. Excessive back pressure will cause the motor seals to fail.

The Debris Blower incorporates a speed control valve to govern the fan maximum speed. Pumping excessive oil through the debris blower will not increase speed and only heat the oil. After connecting the debris blower it is suggested the following procedure is followed.

- Turn the flow control on the tractor's spool to minimum.
- Start the debris blower by engaging the spool valve.
- Set the engine to normal operating speed.
- Turn the flow control up, on the tractor's spool valve, until the debris blower fan reaches its maximum speed and set it there.

To stop the debris blower reduce the engine speed to idle and move the spool valve lever into float or neutral. Float is the best option as this allows the motor to run down smoothly.

For Debris Blowers that are fitted onto S.I. machines the following modifications need to be carried out.

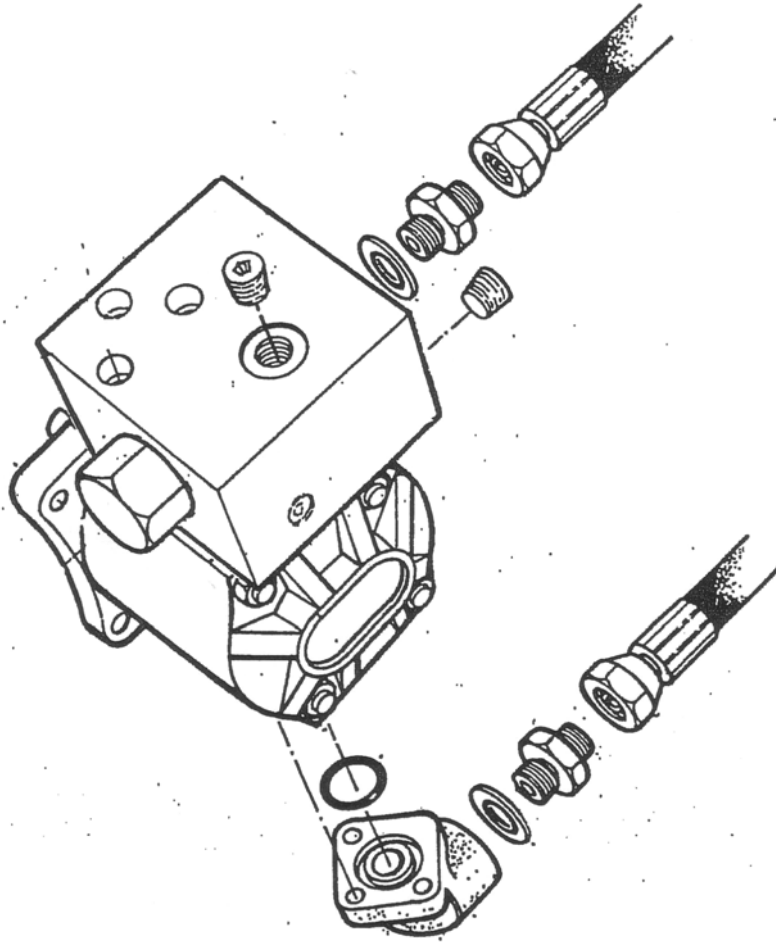


The plug from the end of the pressure gallery on the armhead control valve is removed and replaced with a pressure carry over adaptor, a union and a swivel elbow. The pressure supply to the Debris Blower is taken from this swivel elbow to the flow control valve block on the blower motor opposite the hexagon head of the valve.

The return hose is returned to the tractor transmission casing as return option 2 stated previously

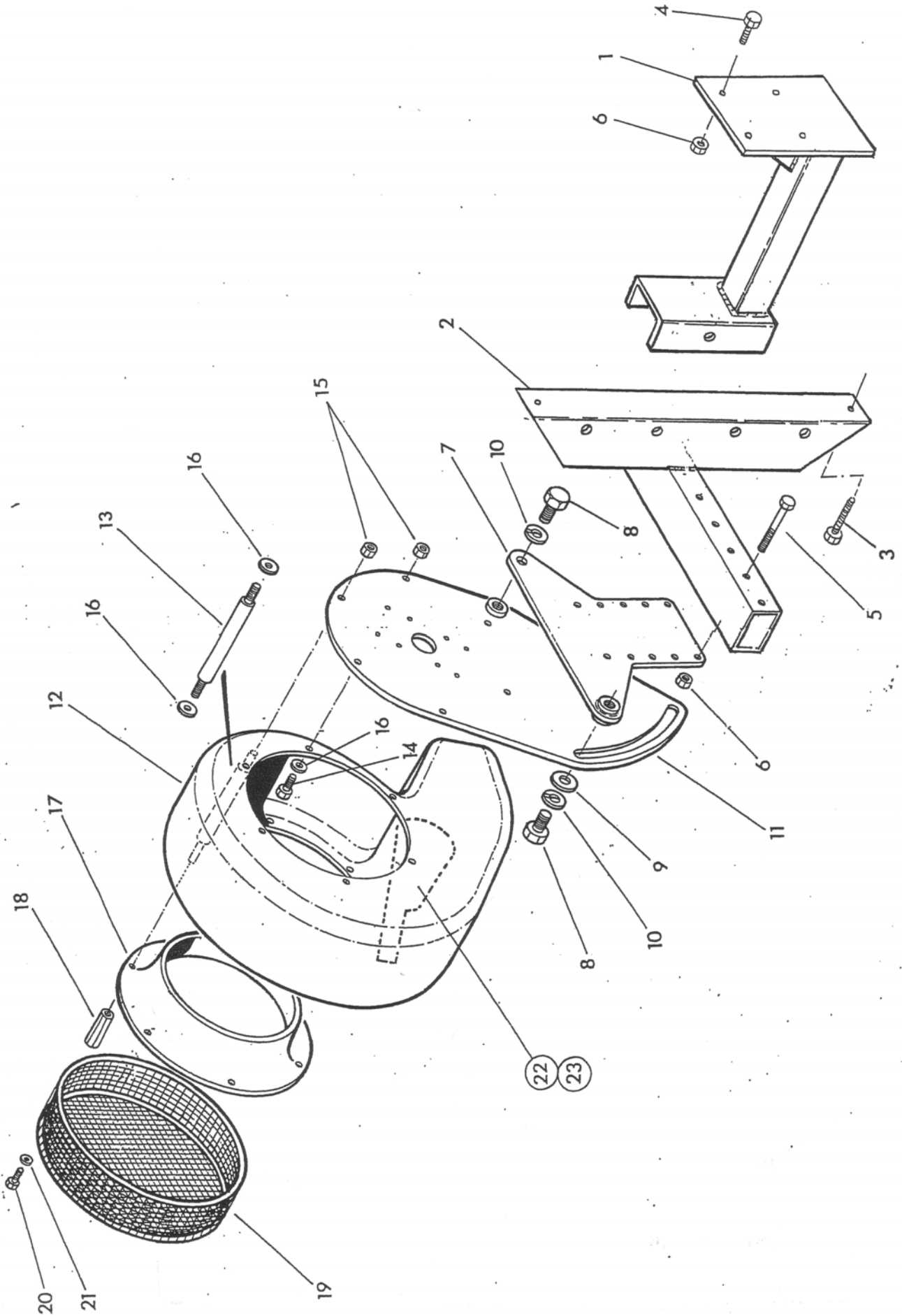
Note when Debris Blowers are fitted to S.I. machines the debris blower is automatically engaged when the tractors auxiliary service is selected to power the arms. It does not have an individual control.

TRACTORS WITH CLOSED CENTRE HYDRAULICS



Where tractors have closed centre hydraulics the following modifications to both T.I. and S.I. installations are required:-The long return hose, the short loop hose and their connections are removed from the flow control block. The ports should be blanked using the plugs provided and PTFE tape.

The low pressure connection should be removed from the cast elbow on the return side of the motor and replaced by the 3/4-1/2 BSP union taken from the block. The long return hose is then connected and the oil is returned to the tractor direct to the transmission casing as detailed previously in return option 2



**McCORMICK**

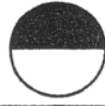
Ref. Part No. Qty. Description

DEBRIS BLOWER BODY

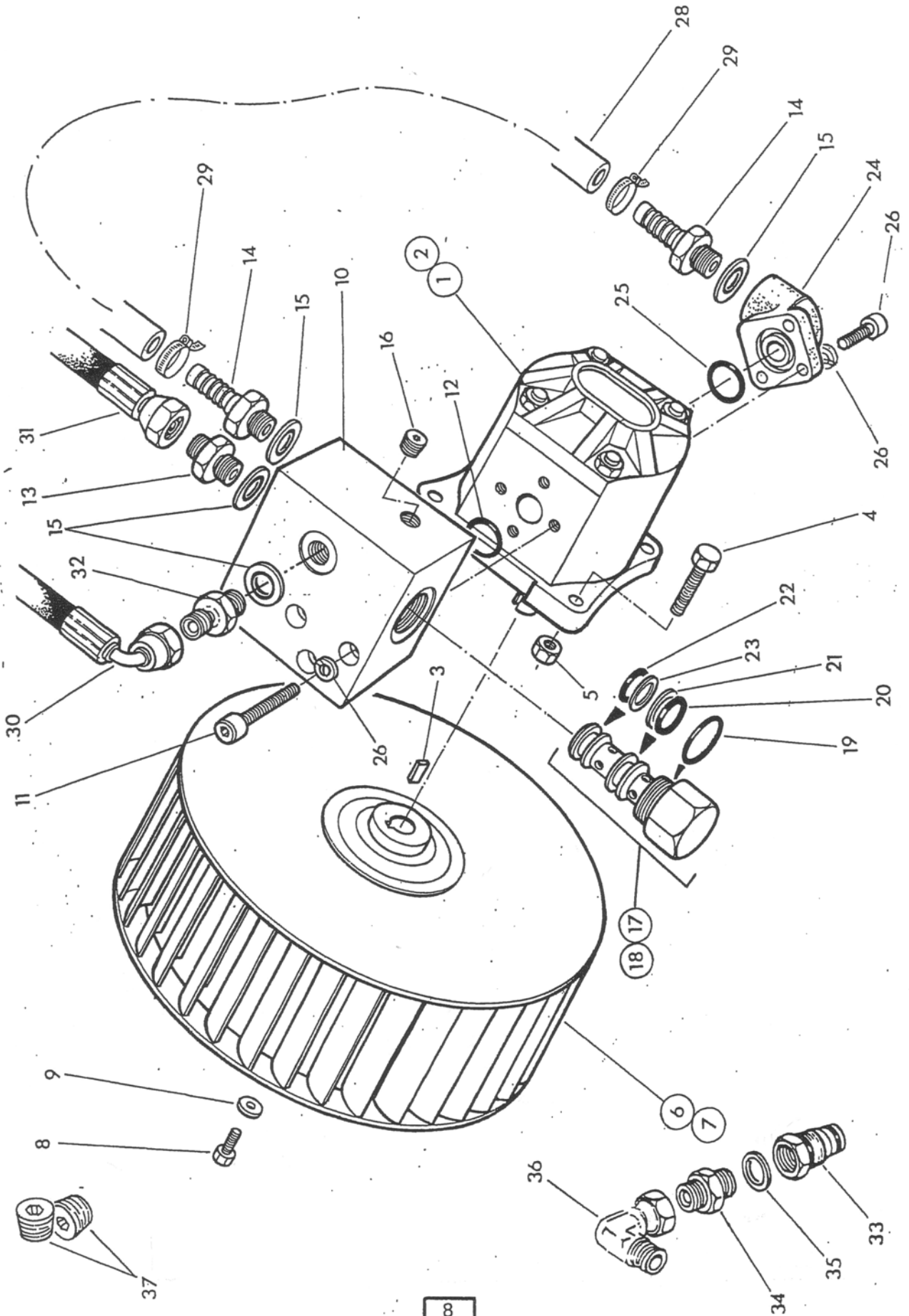
Items 1-21 inclusive are common to all debris blower assemblies.

1	73 19 277	1	Mounting bracket
2	73 19 276	1	Mounting bracket
3	93 13 146	2	Setscrew
4	93 13 075	2	Setscrew
5	92 13 206	2	Bolt
6	91 43 004	4	Self locking nut
7	73 19 274	1	Pivot plate
8	93 13 067	2	Setscrew
9	91 00 107	1	Plain washer
10	91 00 207	2	Spring washer
11	73 19 273	1	Back plate
12	73 19 270	1	Fan casing
13	73 19 005	3	Casing spacer
14	93 13 054	3	Setscrew
15	91 43 004	6	Self locking nut
16	91 00 104	6	Plain washer
17	73 19 271	1	Shroud
18	73 19 004	3	Guard spacer
19	73 19 272	1	Guard
20	93 83 043	3	Setscrew pan head
21	91 00 103	3	Plain washer
22	12 90 317	1	Sticker "McCormick" - L.Hand machines as illustration
23	12 90 318	1	Sticker "McCormick" - R.Hand machines

RADIAL WHEEL & MOTOR



McCONNELL





Ref.	Part No.	Qty.	Description
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**MOTOR AND RADIAL WHEEL FOR T.I. M/CS
WITH OPEN CENTRE HYDRAULICS**

1	83 01 286	1	Hydraulic motor - low flow only
	83 01 285	1	Hydraulic motor - high flow only
3	82 01 161	1	Key
4	92 13 084	4	Bolt
5	91 43 004	4	Self locking nut
6	73 19 007	1	Radial wheel - L.Hand only as illustrated
7	73 19 008	1	Radial wheel - R.Hand only
8	93 13 033	1	Setscrew
9	73 19 013	1	Special washer
10	81 32 255	1	Flow control block
11	93 43 104	3	Cap screw socket head
12	86 00 402	1	O ring
13	85 81 110	1	Union
14	80 02 059	2	Adaptor
15	86 50 104	4	Bonded seal
16	85 82 043	1	Taper plug
17	81 04 040	1	Flow control valve assy - high flow only
18	81 04 041	1	Flow control valve assy - low flow only
19	86 00 716	1	O Ring
20	87 00 775	1	O Ring
21	87 09 775	1	Anti extrusion ring
22	87 00 772	1	O Ring
23	87 09 772	1	Anti extrusion ring
24	83 01 027	1	Return elbow
25	86 00 403	1	O Ring
26	93 43 054	3	Capscrew socket head
27	91 00 204	5	Spring washer
28	85 01 059	1	Hose 5/8" low pressure x 15" long
29	09 04 204	2	Hose clip - 5/8" bore hose
30	85 37 015	1	Hose 3/4" BSP SF-90 deg F x 110" long
31	85 13 024	1	Hose 1/2" BSP SF-SF x 120" long
32	85 81 130	1	Adaptor

86 99 242

SEAL KIT for hydraulic motors

KIT FOR S.I. INSTALLATION

33	81 30 180	1	Pressure carry over
34	60 00 112	1	Union
35	86 50 103	1	Bonded seal
36	85 81 215	1	Swivel elbow

KIT FOR CLOSED CIRCUIT HYDRAULICS

37	81 03 001	2	Taper plug
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