

Turning Earth Around The World

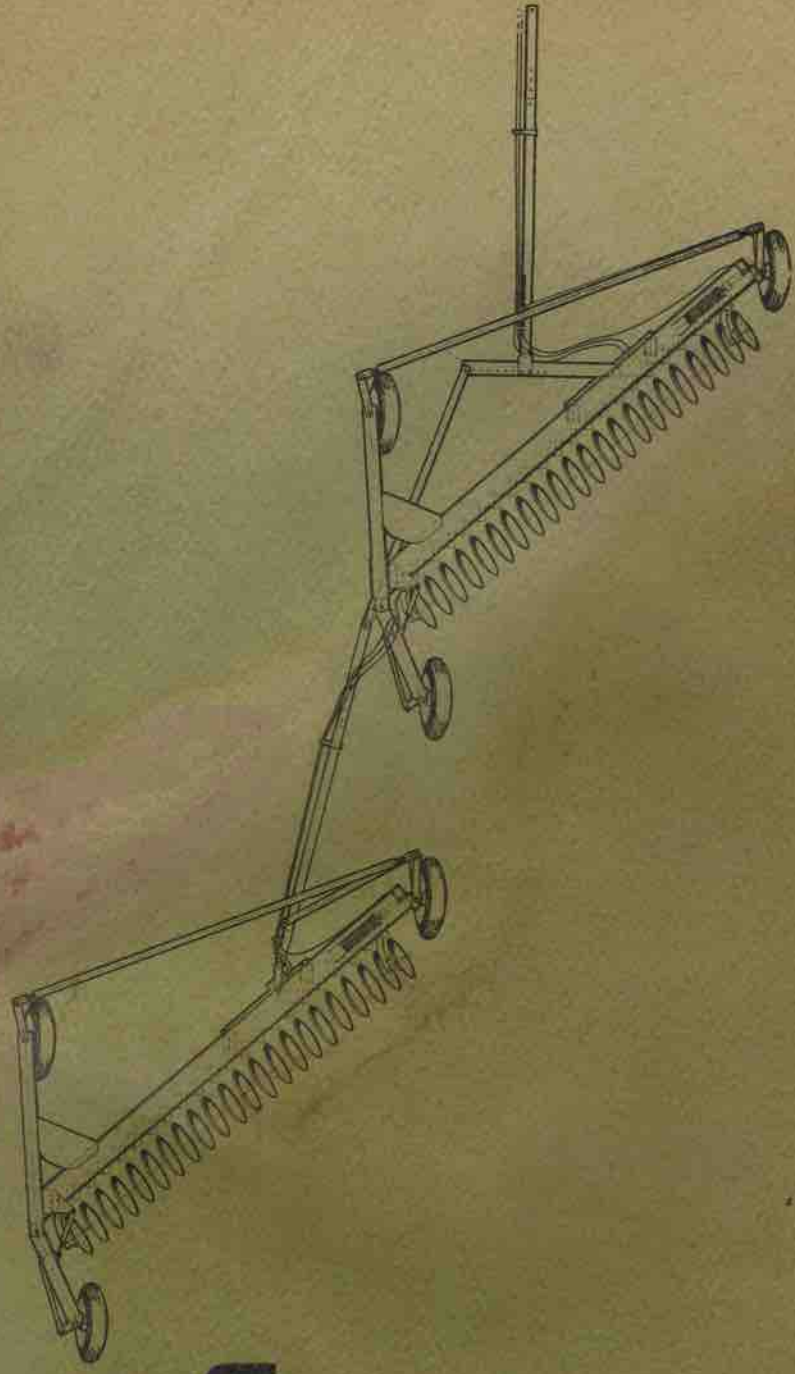


JOHN SHEARER TANDEM HITCH (DISC PLOUGH--5GP)

parts and instruction manual

no. 83J1

Price \$ 0-70





JOHN SHEARER & SONS LIMITED

ESTABLISHED 1877 INCORPORATED IN SOUTH AUSTRALIA

HEAD OFFICE & FACTORY

BOX 42 KILKENNY
SOUTH AUSTRALIA 5009

TELEPHONE — 45 4651 (8 LINES)

TELEGRAMS & CABLES — SHEARER ADELAIDE

TELEX — AA88109

STREET LOCATION — SHARE STREET & KILKENNY ROAD

WHEN ORDERING SPARE PARTS PLEASE STATE:

1. MODEL & SERIAL NUMBER (OF THE MACHINE / IMPLEMENT).
2. PART NUMBER & DESCRIPTION (OF THE SPARE PART).
3. NUMBER OF PARTS REQUIRED.
4. FORWARDING INSTRUCTIONS.
5. CORRECT NAME & ADDRESS OF DESTINATION.



MODEL & SERIAL NUMBER PLATE
IS PLACED ON THE LEFT HAND FRONT
OF THE MAIN FRAME.

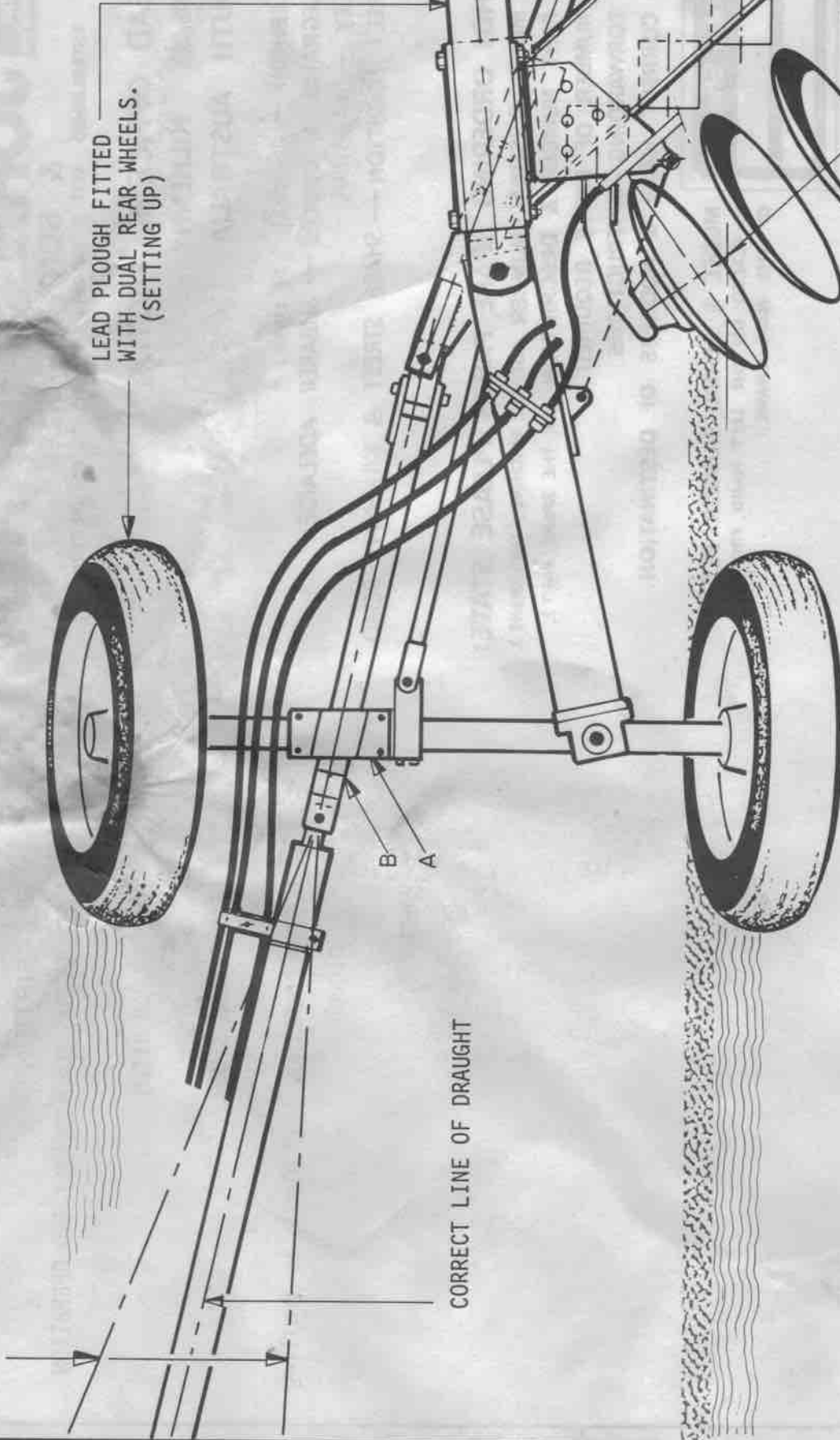
GENERAL CONTENTS

PAGES DESCRIPTION

2-3	INSTRUCTIONS FOR ASSEMBLY AND OPERATION
4-5	TAIL PLOUGH HITCH
6-7	LEAD PLOUGH HITCH
8-9	HOSE & COUPLING, lead plough to trailing plough
10	HARDWARE

MADE & PRINTED IN AUSTRALIA BY JOHN SHEARER & SONS LIMITED.
83J1 NOVEMBER, 1974

INCORRECT LINE OF DRAUGHT



LEAD PLOUGH FITTED WITH DUAL REAR WHEELS. (SETTING UP)

A B

CORRECT LINE OF DRAUGHT

INSTRUCTIONS FOR ASSEMBLY AND OPERATION

27.1174M83J1



All components should be assembled in the manner shown pictorially in the illustrations.

Setting up instructions for the trailing plough are identical with those of a plough being operated singularly. Line of draught considerations for the leading plough are basically the same but the rear furrow wheel of the leading plough is much less likely to leave the furrow because it has the restraining influence of the trailing plough attached to it. Should the front furrow wheel of the leading plough have a tendency to leave the furrow the line of pull should be moved further away from the furrow.

When the leading plough is fitted with dual rear wheels, the clamp on the rear wheel axle (item A) should be located so that the draught member (item B) does not pull hard against either side in normal straight ahead ploughing.

HYDRAULIC CONNECTIONS

As shown pictorially a single (joined) hose (item C) is used to connect the manifold of the lead plough to the accumulator on the trailing plough. This connection ensures that all discs on both ploughs have identical pressure exerted on them in the same way as the manifold does on the single plough. This in turn ensures that working depth is identical across the whole width of both ploughs. Consequently a multiple hitch HYDRAULIC 5GP provides a vastly improved depth control facility over any previously available multiple hitch plough configuration. With a tractor with two sets of remote hydraulics these should be connected to the manifold and to the plough lift circuit. Once the plough frames are set level there will be no need to use the plough lift circuit unless the tractor is being over-loaded in soft conditions or for transport.

Width of cut control cylinders cannot be effectively used on a tandem hitch. This is because the load against the operating cylinder on one plough can be different for that on the other and consequently one plough will operate at a different width of cut per disc than the other. That is, the width of cut of each plough must be set separately and left in the most suitable position.

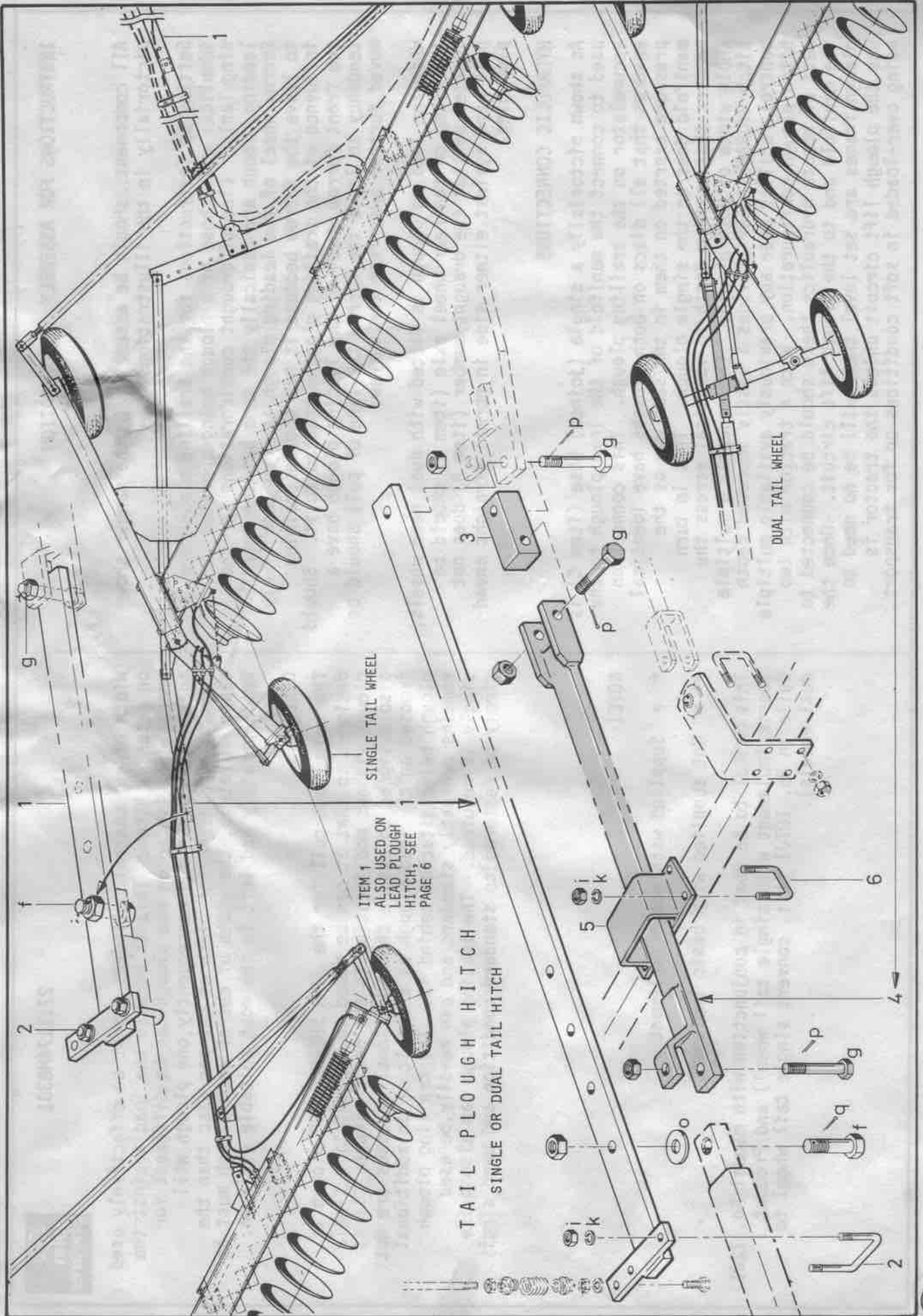
GENERAL

The two plough pull for the JOHN SHEARER 5GP plough is designed so that it can be added to any existing single plough without modification to the basic plough. It is also designed to ensure that additional stresses are not imposed on the lead plough as a result of an additional plough being attached behind it. The trailing plough remains perfectly standard and can readily be used singly if required. The leading plough can also quite simply be restored to standard condition and used singly.

NOTE!

- * = Supplied with basic implement
- ** = Not supplied with basic implement

This manual to be read in conjunction with manual No. 72J1 (basic implement with single tail wheel) and Product Bulletin No. 107J1 (kit, convert single tail wheel to dual wheels).



TAIL PLOUGH HITCH (TANDEM)

14.175M83J1



ITEM PART NO DESCRIPTION

ITEM PART NO DESCRIPTION

KITS

16271J91
16276J91
16272J91
16277J91
16274J91
16279J91
16275J91
16280J91

HITCH
14HS
14HS
18HS
18HS
22HS
22HS
26HS

TAIL WHEEL
single
dual
single
dual
single
dual
dual

Consisting of items on pages 5 & 6 as listed below.

16297J91
16300J1
16319J1
16317J91
16312J91
FC160-174

LINK ASSY.
CLAMP
BLOCK
LINK ASSY.
GUIDE ASSY.
CLAMP

QTY.
single dual
2 1
2 1
- 1
- 1
- 1
- 2

Items below illustrated on page 6.

16286J1
select
select
16293J1
16294J91
select

PLATE
DRAWBAR
BAR
HAKE
OUTRIGGER ASSY.
BAR ASSY.

QTY.
2 2
1 1
1 1
1 1
1 1
1 1

KIT

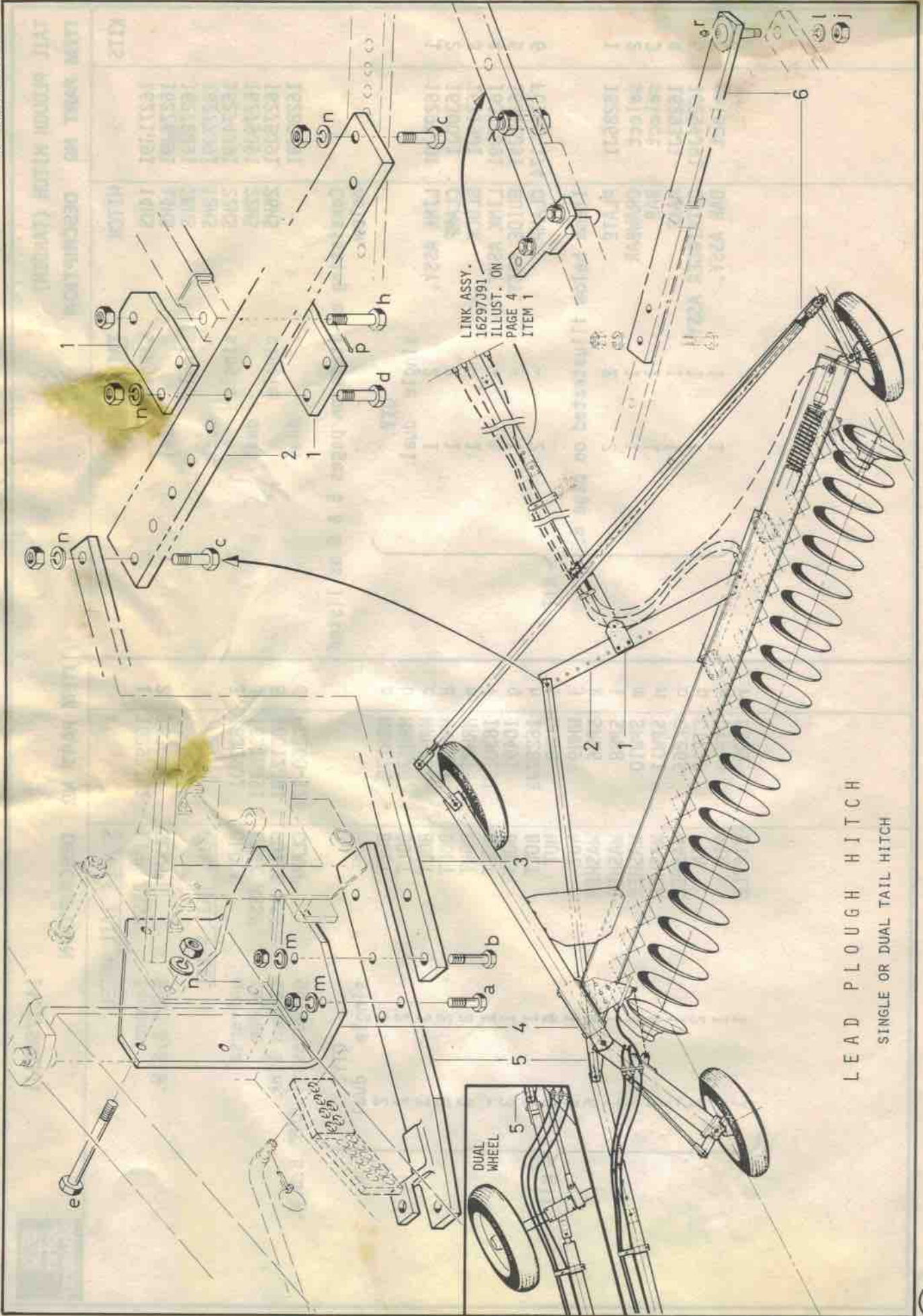
QTY.
single dual
2 2
2 2
3 3
2 2
3 3
1 1
1 1
1 1
4 4
1 1
4 4
1 1
4 4
9 9
1 1
2 2
1 1
1 1

HRH172
HRH176
HRH200
HRH201
HRH213
16301J1
10491
16287J1
WHN8
WHN9
SPW6
SPW8
SPW10
SPW11
CK265
CTP13
CTP14
D999

a b c d e f g h i j k l m n o p q r

SINGLE TAIL WHEEL
LINK ASSY. tandem
CLAMP 5/8" B.S.W.
DUAL TAIL WHEEL
BLOCK universal
LINK ASSY. tandem
GUIDE ASSY. tandem link
CLAMP guide assy. 5/8" B.S.W.

BOLT
BOLT
BOLT
BOLT
BOLT
BOLT
BOLT
BOLT
NUT
NUT
WASHER
WASHER
WASHER
WASHER
WASHER
PIN
PIN
NIPPLE



LEAD PLOUGH HITCH

10.1074M83J1

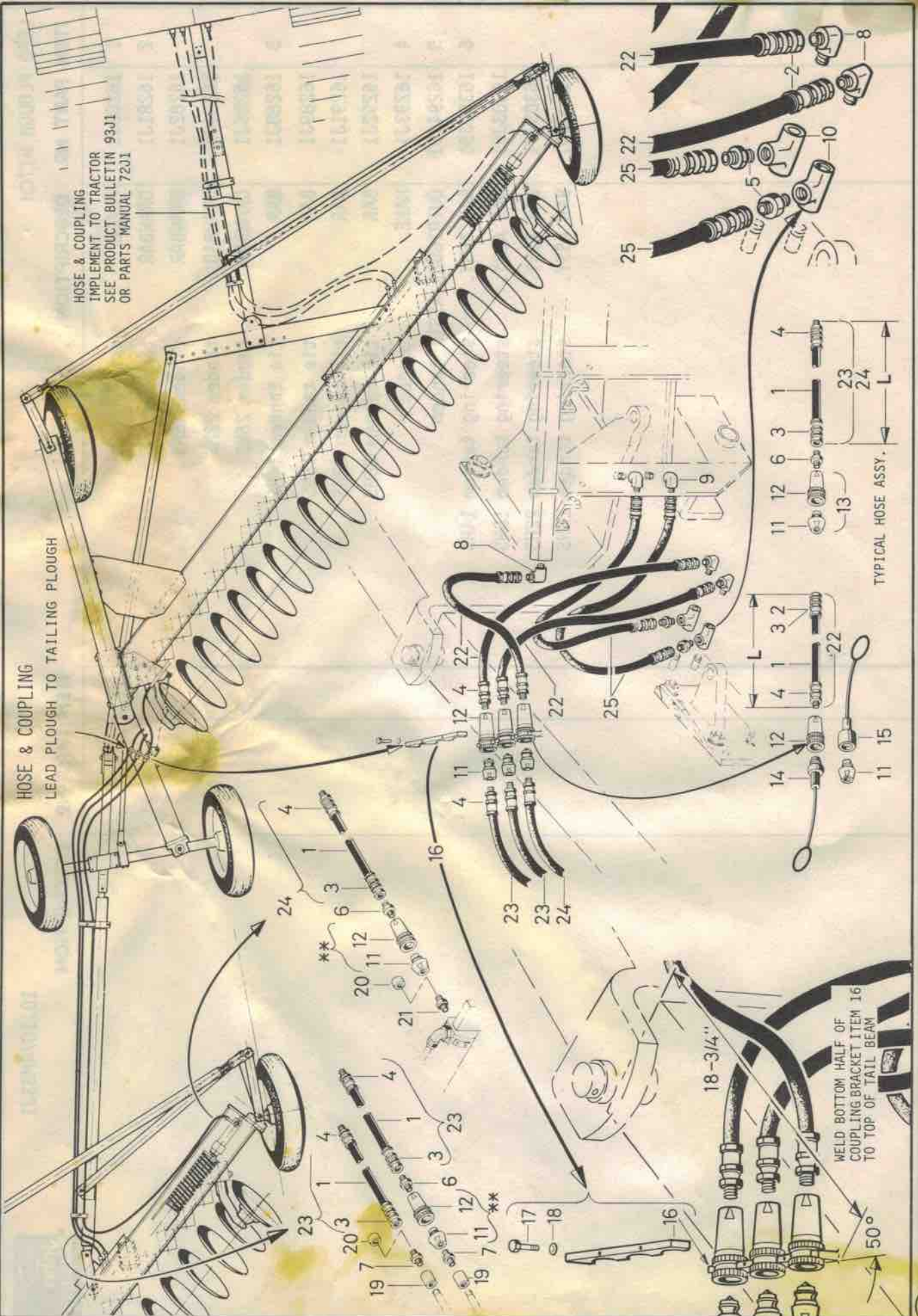


ITEM PART NO DESCRIPTION

ITEM	PART NO	DESCRIPTION	ITEM	PART NO	DESCRIPTION
1	16286J1	PLATE			drawbar
2	16281J1	DRAWBAR			tandem 14HS
	16282J1	DRAWBAR			tandem 18HS
	16284J1	DRAWBAR			tandem 22HS
	16285J1	DRAWBAR			tandem 26HS
3	16288J1	BAR			tie tandem 14HS
	16289J1	BAR			tie tandem 18HS
	16291J1	BAR			tie tandem 22HS
	16292J1	BAR			tie tandem 26HS
4	16293J1	HAKE			tandem
5	16294J91	OUTRIGGER ASSY.			tandem
6	16302J91	BAR ASSY.			steering tandem 14HS
	16303J91	BAR ASSY.			steering tandem 18HS
	16305J91	BAR ASSY.			steering tandem 22HS
	16306J91	BAR ASSY.			steering tandem 26HS

HOSE & COUPLING
LEAD PLOUGH TO TAILING PLOUGH

HOSE & COUPLING
IMPLEMENT TO TRACTOR
SEE PRODUCT BULLETIN 9301
OR PARTS MANUAL 7201

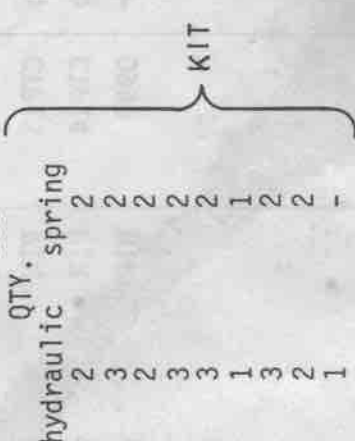


WELD BOTTOM HALF OF
COUPLING BRACKET ITEM 16
TO TOP OF TAIL BEAM

TYPICAL HOSE ASSY.



ITEM PART NO	DESCRIPTION	ITEM PART NO	DESCRIPTION
1	HOSE S.A.E. 100RI one-wire braid rubber covered hose - 3/8" (9.55mm) ID x 25/32" (20mm) OD maximum working pressure 3000 psi (212 kg/cm ²) specify length desired ref. D800-6 if ordering separately	16356J91	HOSE ASSY. 11ft 22HS 'L' = 18' 6" items 1, 3 & 4
2	HOSE END female 3/8" BSP ref. D801-66	16358J91	HOSE ASSY. 11ft 26HS 'L' = 20' 6" items 1, 3 & 4
3	HOSE END female 1/2" BSP ref. 801-86	16365J91	HOSE ASSY. accumulator 14H 'L' = 18' 0" items 1, 3 & 4
4	HOSE END male 1/2" BSP ref. 802-86	16366J91	HOSE ASSY. accumulator 18H 'L' = 20' 6" items 1, 3 & 4
5	NIPPLE 3/8" BSPT m/m ref. D04-66	16367J91	HOSE ASSY. accumulator 22H 'L' = 22' 0" items 1, 3 & 4
**6	NIPPLE 1/2" BSPT m/m ref. D04-88	16368J91	HOSE ASSY. accumulator 26H 'L' = 24' 0" items 1, 3 & 4
*7	NIPPLE 3/8" BSPT x 1-1/2" BSPT m/m ref. D04-86	15500J2	HOSE ASSY. 11ft 'L' = 2' 10" items 1 & 2
8	ELBOW 3/8" BSPT m/m ref. D04-66	16374J91	HOSE ASSY. hydraulic spring 14H
*9	ELBOW 3/8" BSPT m/f ref. D30-66	16376J91	HOSE ASSY. 18H
10	TEE 3/8" BSPT f/f/f ref. D68-666	16378J91	HOSE ASSY. 22H
11	SNAP COUPLING insert 1/2" BSPT female ref. DG2503-0800	16380J91	HOSE ASSY. 26H
12	SNAP COUPLING body 1/2" BSPT female ref. DG2503-0008	16375J91	
13	SNAP COUPLING assy. 1/2" BSPT f/f ref. DG2503-0808 items 11 & 12	16377J91	
14	DUST PLUG ref. DG2509-08	16379J91	
**15	DUST CAP ref. DG2508-08	16381J91	
16	BRACKET ASSY. snap coupling items 17 & 18		
17	BOLT hex-hd 1-1/4" x 1/4" BSW		
18	WASHER int-star 1/4"		
*19	SOCKET 3/8" BSPT f/f ref. DB67-6		
*20	CAP malleable 1/2" BSPT		
*21	NIPPLE 3/4" UNF 'O' ring x 1/2" BSPT m/m ref. D95-128		
22	HOSE ASSY. lift & accumulator 'L' = 28" items 1, 2 & 4		
23	HOSE ASSY. lift 14HS 'L' = 14' 6" items 1, 3 & 4		
	HOSE ASSY. lift 18HS 'L' = 16' 6" items 1, 3 & 4		
		24	select
		24	select
		5	16346J1
		8	16347J1
		10	16345J1
		13	16348J91
		14	16351J1
		16	16352J91
		22	16341J91
		23	select
		24	select



* = Supplied with basic implement, but not with tandem hitch.
 ** = Not supplied with basic implement or tandem hitch.

HARDWARE

1101074M83J1



ITEM PART NO DESCRIPTION

ITEM PART NO DESCRIPTION

a	HRH172	BOLT	HRH 2-3/4" x 7/8" BSW
b	HRH176	BOLT	HRH 3-3/4" x 7/8" BSW
c	HRH200	BOLT	HRH 3-1/4" x 1" BSW
d	HRH201	BOLT	HRH 3-1/2" x 1" BSW
e	HRH213	BOLT	HRH 9" x 1" BSW
f	16301J1	BOLT	HRH 4-1/2" x 1" drilled
g	10491	BOLT	HRH 6" x 1" drilled
h	16287J1	BOLT	HRH 4-1/2" x 1" heat treated
i	WHN8	NUT	hex-hd 5/8" BSW
j	WHN9	NUT	hex-hd 3/4" BSW
k	SPW6	WASHER	spring 5/8"
l	SPW8	WASHER	spring 3/4"
m	SPW10	WASHER	spring 7/8"
n	SPW11	WASHER	spring 1"
o	CK265	WASHER	flat 3" x 1-7/16" x 1/4"
p	CTP13	PIN	cotter 1-1/2" x 1/4"
q	CTP14	PIN	cotter 1-3/4" x 1/4"
r	D999	NIPPLE	grease straight 1/8" gas thd.

