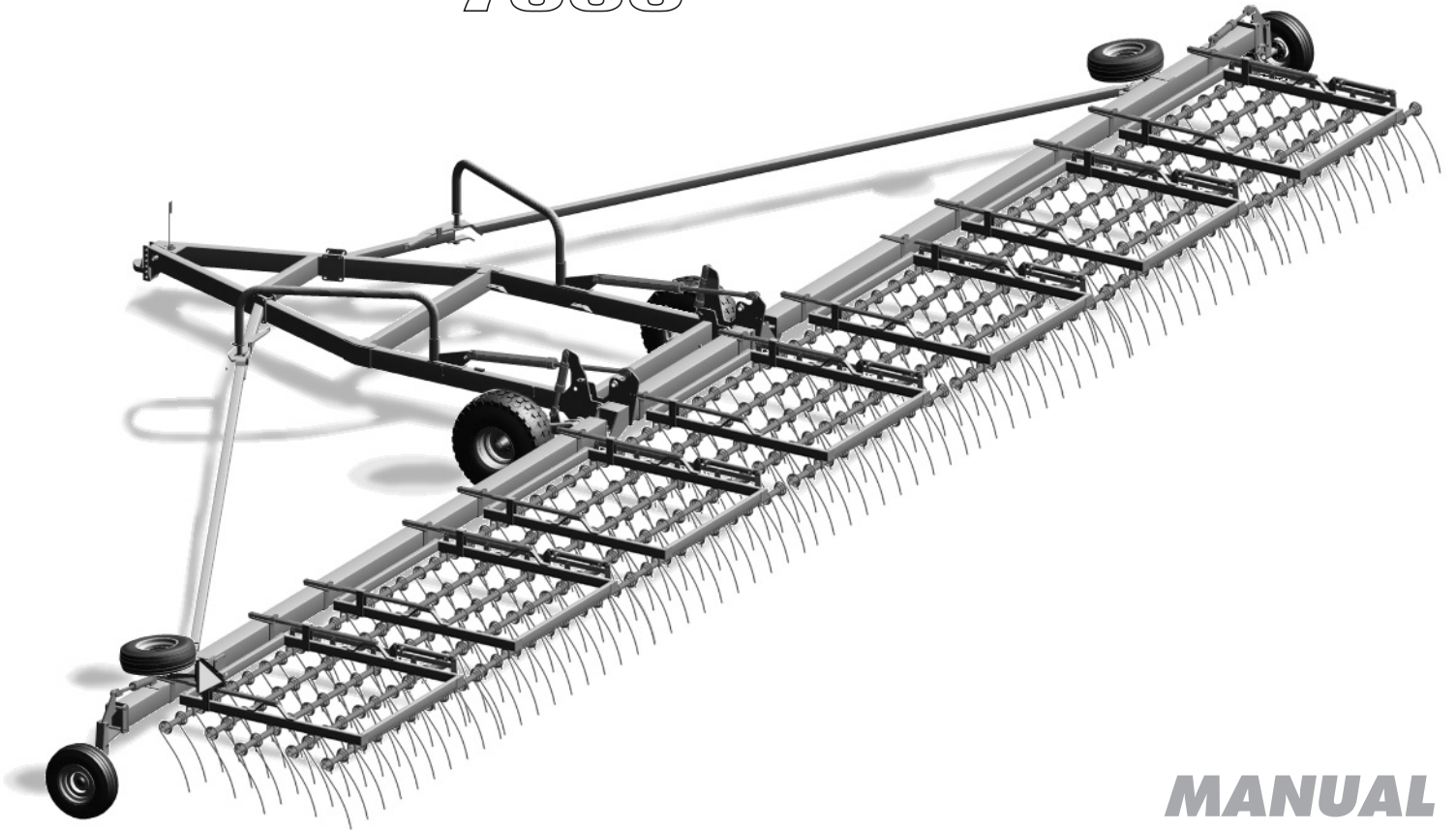


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7000



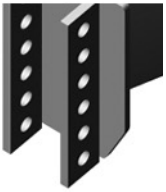
MANUAL
143043



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Trailer, centre & wing beams	1
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SAFETY

The safety instructions that follow pertain only to this specific equipment. You should be aware of agricultural & industrial safety especially related to heavy equipment. If you are not familiar with safety procedures then you should get training. Improper use will result in maiming or death.



**272 Industrial Drive, Box 830
Regina, Sask. Canada S4P 3B1
306 543-4447 543-2140 fx**

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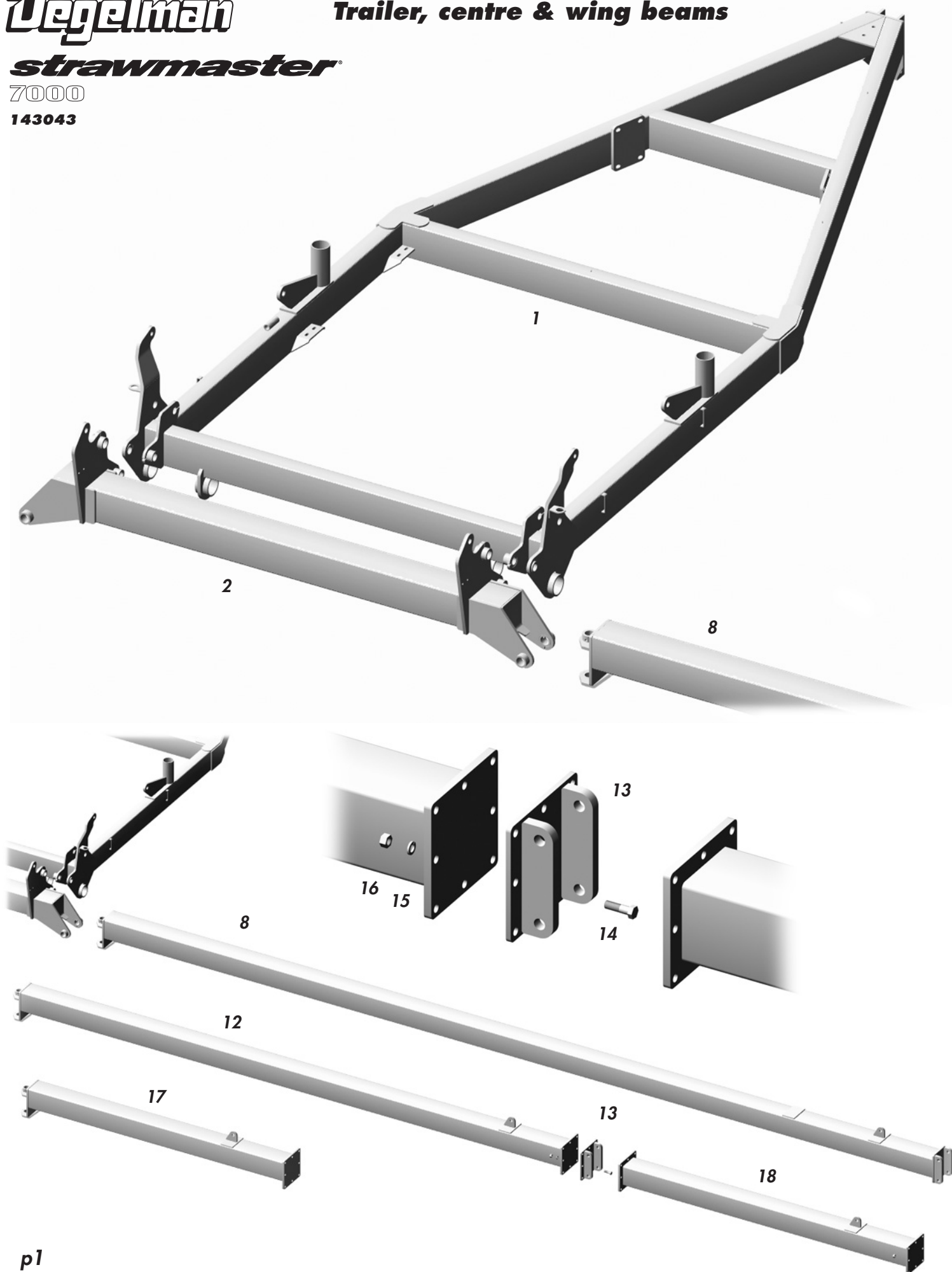
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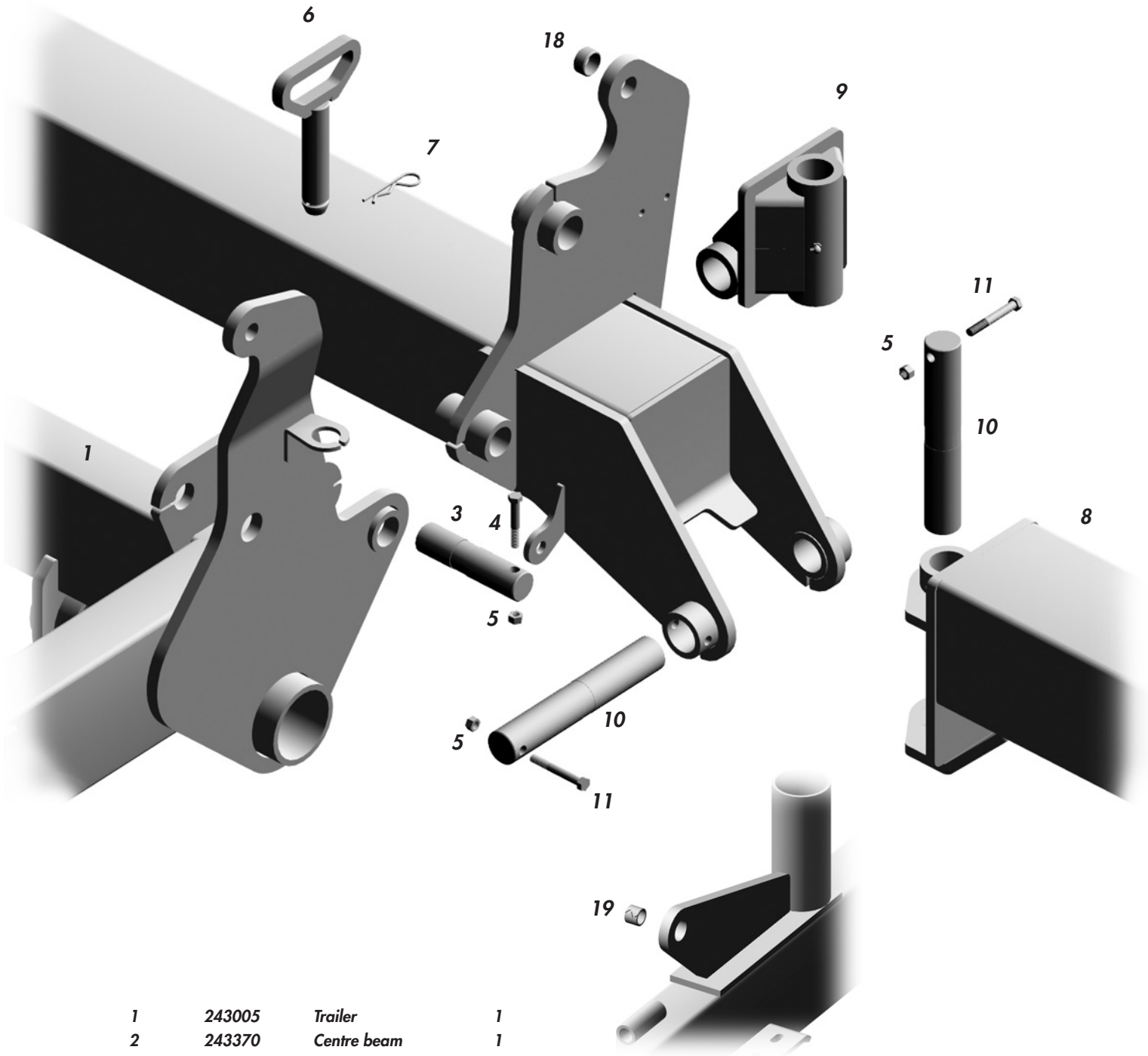
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Trailer, centre & wing beams





1	243005	Trailer	1
2	243370	Centre beam	1
3	243101	Pin trailer/centre 7 lg	2
4	118082	Bolt 1/2 x 3 1/2	2
5	118420	Lock nut 1/2 unitq	2
6	245242	Transport pin	2
7	118817	Cotter pin 3 3/4	2
8	243302	Wing beam 70ft SM	2
	244740	Wing beam 62ft SM	2
	244385	Wing beam 82ft SM	2
9	243791	Cross joint	2
10	243103	Cross joint pin 12 lg	4
11	118126	Bolt 1/2 x 4	4
5		Lock nut 1/2 unitq	4

12	243295	Wing beam 50ft SM	2
13	243165	End whl plate	2
14	118047	Bolt 3/4 x 2 1/2	16
15	118509	Lock washer 3/4	16
16	118410	Nut 3/4	16
17	243831	Wing beam 30ft SM	2
18	243088	Extension 10ft	2
19	117129	Wear bushing	4

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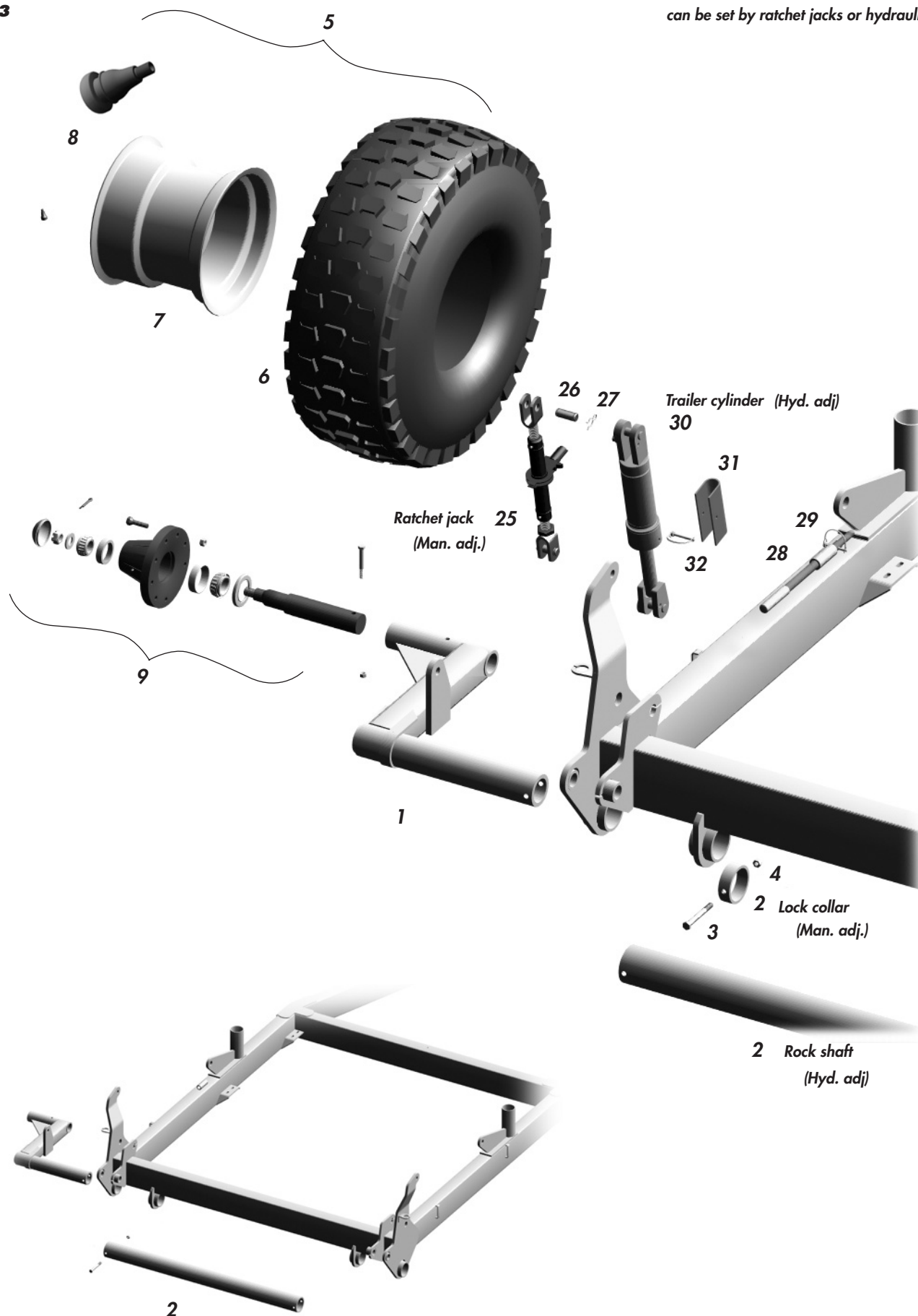
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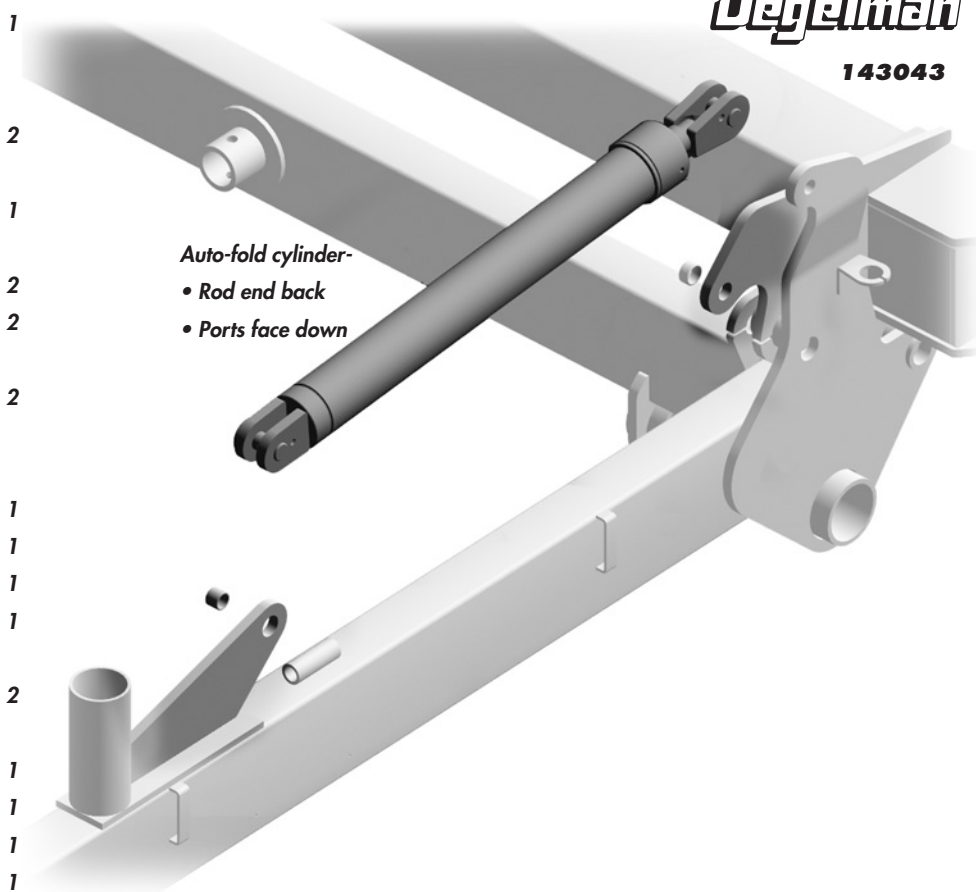
143043

Trailer wheels

Stawmasters can have either manual or hydraulic adjustment. Trailer height & tine angle can be set by ratchet jacks or hydraulics.



1	243106	LH trailer wheel arm	1
	243105	RH	
	<i>Manual adjust models</i>		
2	243115	Lock collar	2
or	<i>Hydraulic adjust models</i>		
2	243843	Rock shaft	1
3	118954	Bolt 7/8 x 6 gr8	2
4	118454	Lock nut 7/8 unitq	2
5	131500	Trailer wheel	2
	131511	Trailer wheel (alternate)	
	c/w...		
6	131501	Tire 16.5L - 16.1	1
	131512	Tire 16.5L - 16.1 (alternate)	1
7	131502	Rim 8blt - 16.1	1
8	127006	Valve stem	1
9	240387	Hub/spindle H812 trail. whl	2
	c/w...		
10	131093	Hub cap H812	1
	131706	Hub cap CTD812	1
11	118835	Cotter pin 1/2	1
12	118553	Flat washer 1 1/16	1
13	131294	Cone bearing 1.563 ID	1
14	131094	Hub H812	1
	131705	Hub CTD812	1
	c/w...		
15	131071	Bearing cup 3 OD	1
16	131180	Bearing cup 3.672 OD	1
17	131295	Cone bearing 2.063 ID	1
18	131184	Dust seal	1
19	131306	Spindle 15 1/2 lg	1
	c/w...		
20	118423	Slotted nut 1 uns	1
21	118126	Bolt 1/2 x 4	2
22	118420	Lock nut 1/2 unitq	2
23	118914	Wheel bolt 9/16 x 1 3/4 unf	16
24	118651	Jam nut 9/16 unf gr2	16

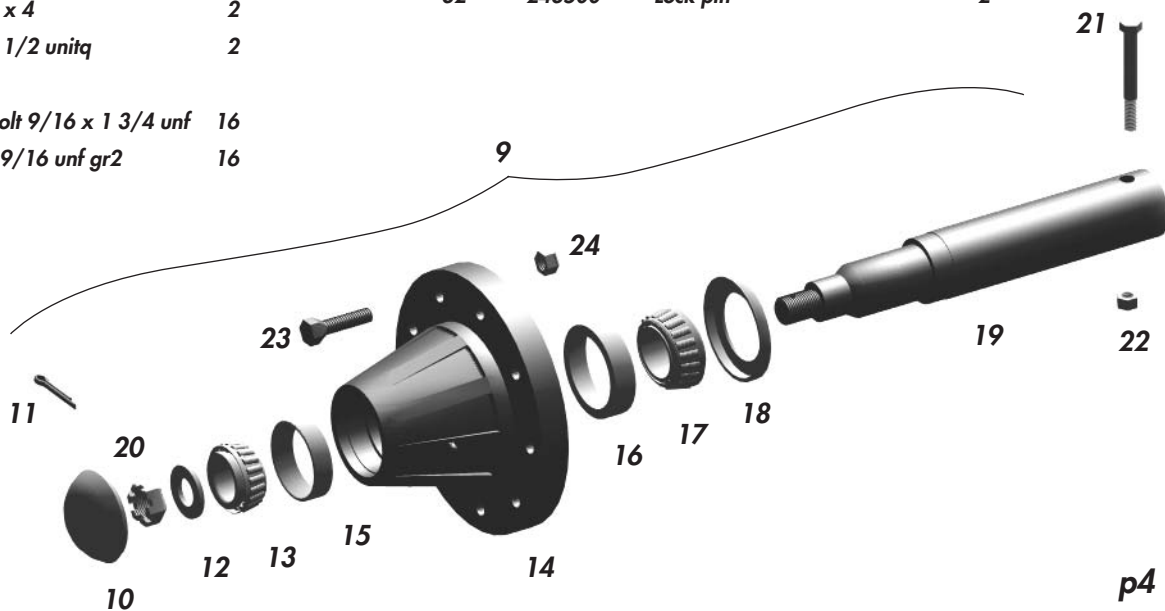


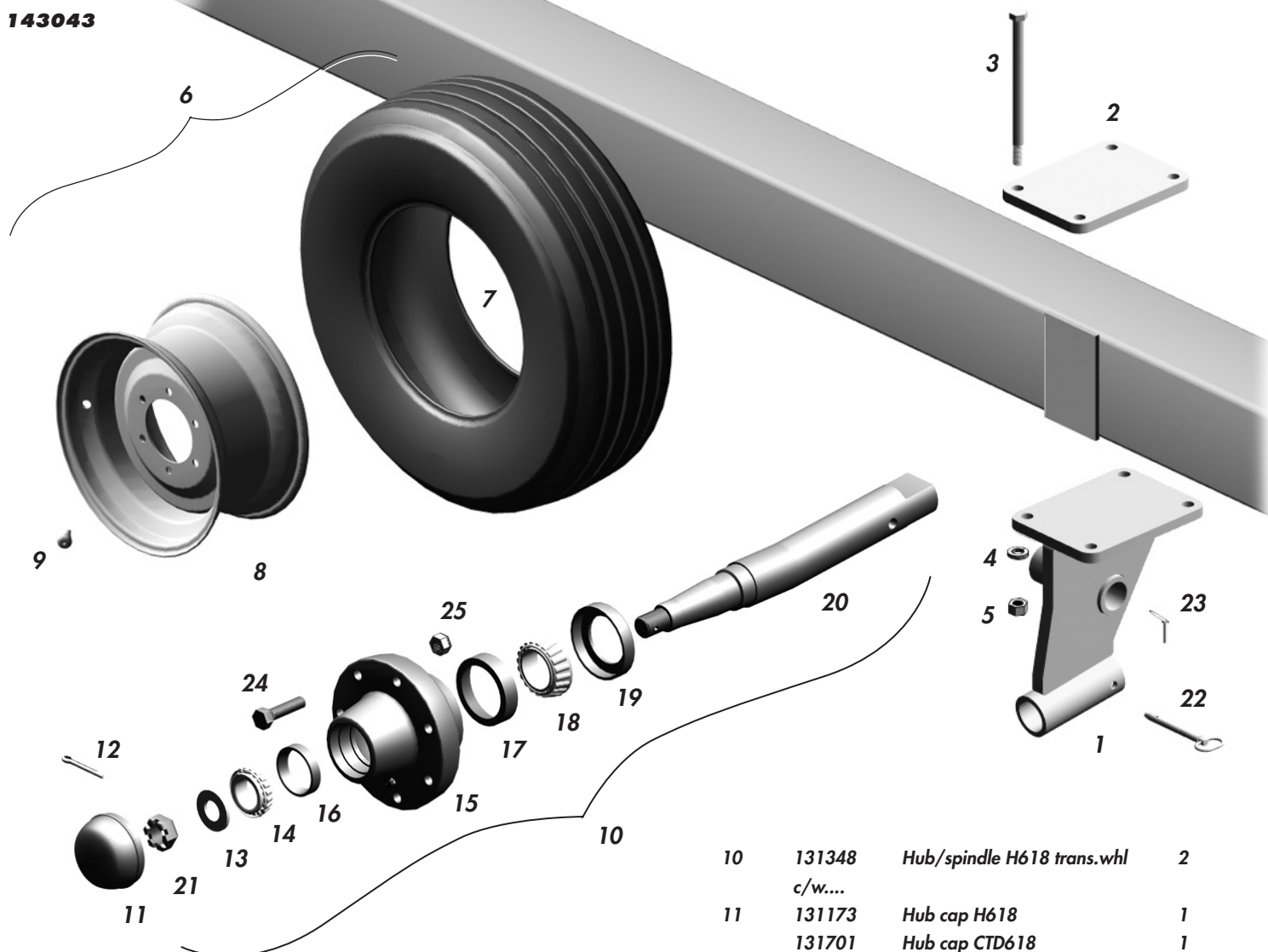
Auto-fold cylinder-

- Rod end back
- Ports face down

<i>Manual adjust models</i>			
25	132016	Ratchet jack	2
	c/w...		
26	132032	Pin 2 1/8 lg	2
27	118829	Hair pin 4	
28	243375	Ratchet jack handle	1
29	243500	Wire lock pin	1
or	<i>Hydraulic adjust models</i>		
30	122740	Trailer whl cyl 3 x 8 x 1 5/8	2
31	243844	Transport lock	2
32	243500	Lock pin	2

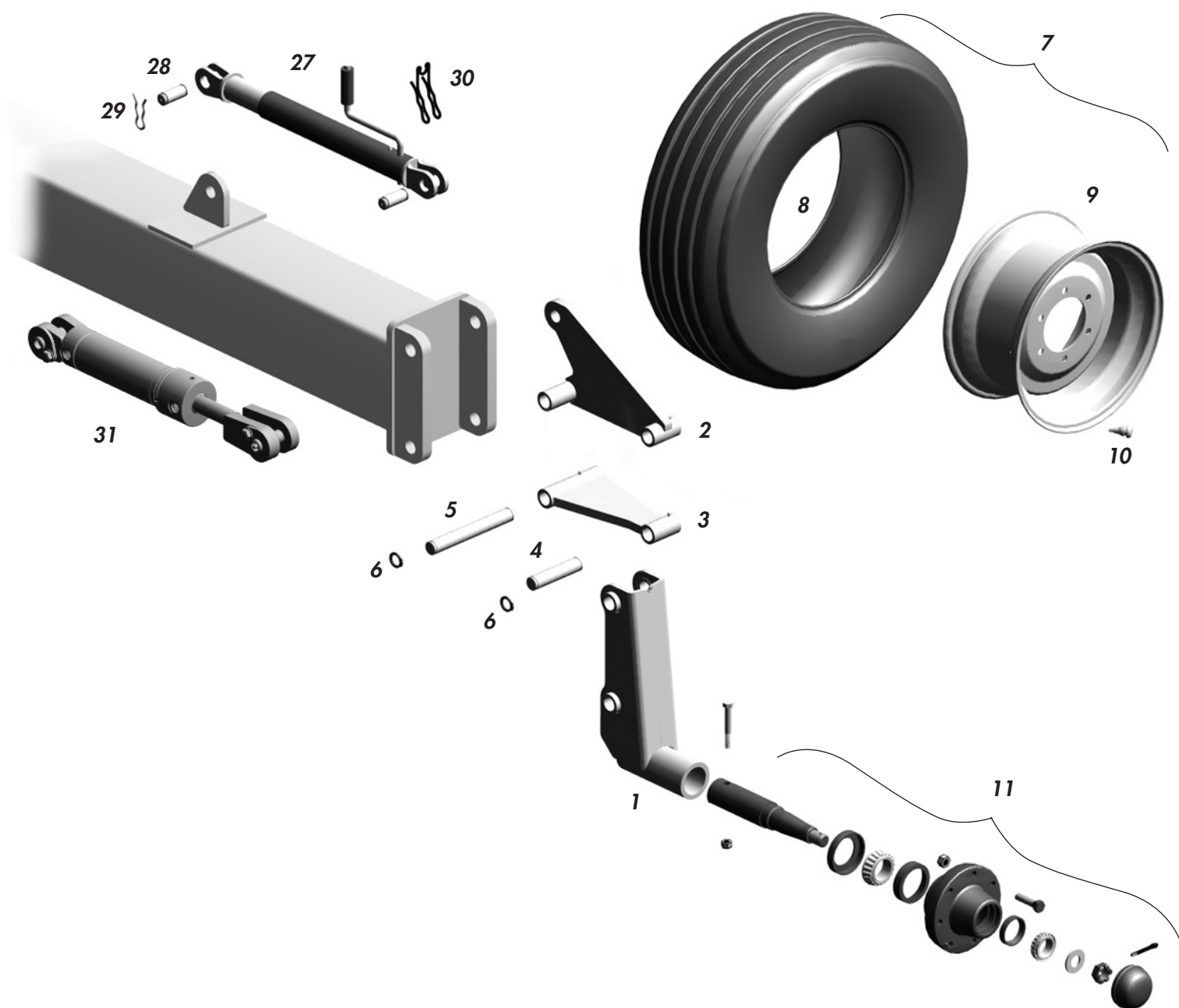
See
previous hyd
system p.39
for older
Strawmaster
setup.





1	243261	LH transport wheel holder	1
	243260	RH	
	244392	LH transport wheel holder - 82' (without truss swivel)	1
	244391	RH - 82'	
2	243133	Bolt plate	2
3	118155	Bolt 3/4 x 11	8
4	118509	Lock washer 3/4	8
5	118410	Nut 3/4	8
6	131062	Transport wheels (70', 62', 50', 30')	2
	131509	(70', 62', 50', 30' - alternate)	
	131600	Transport wheels (82'-only)	
	c/w....		
7	127003	Tire 9.5L - 15 (70', 62', 50', 30')	1
	131510	(70', 62', 50', 30' - alternate)	
	131601	Tire 11L - 15 (82' - only)	
8	131001	Rim 6blt - 15	1
9	127006	Valve stem	1

10	131348	Hub/spindle H618 trans.whl	2
	c/w....		
11	131173	Hub cap H618	1
	131701	Hub cap CTD618	1
12	118835	Cotter pin 1/2	1
13	131020	Flat washer 1	1
14	131024	Cone bearing 1.375 ID	1
15	131013	Hub H618	1
	131700	Hub CTD618	1
	c/w....		
16	131025	Bearing cup 2.563 OD	1
17	131023	Bearing cup 3.265 OD	1
18	131022	Cone bearing 1.75 ID	1
19	131026	Dust seal	1
20	131349	Bent spindle 17 lg	1
	c/w....		
21	118423	Slotted nut 1 uns	1
22	118900	Hitch pin 4	2
23	118901	Lynch pin 1 1/2	2
24	118914	Wheel bolt 9/16 x 1 3/4 unf	12
25	118651	Jam nut 9/16 unf	12



1	243180	Axle holder	2	11	131324	Hub/spindle H618 end whl	2
2	243170	Plate upper	2		c/w....		
3	243175	Plate lower	2	12	131173	Hub cap H618	1
4	243186	Pin 8 1/8	4		131701	Hub cap CTD618	1
5	243187	Pin 4 5/8	4	13	118835	Cotter pin 1/2	1
6	243164	Retaining ring	16	14	131020	Flat washer 1	1
				15	131024	Cone bearing 1.375 ID	1
7	131062	End wheels	2	16	131013	Hub H618	1
	131509	End wheels (alternate)			131700	Hub CTD618	1
	c/w....				c/w....		
8	127003	Tire 9.5L - 15	1	17	131025	Bearing cup 2.563 OD	1
	131510	Tire 9.5L - 15 (alternate)		18	131023	Bearing cup 3.265 OD	1
9	131001	Rim 6blt - 15	1	19	131022	Cone bearing 1.75 ID	1
10	127006	Valve stem	1	20	131026	Dust seal	1
				21	131322	Spindle 12	1
					c/w....		
				22	118423	Slotted nut 1 uns	1
				23	118082	Bolt 1/2 x 3 1/2	2
				24	118420	Lock nut 1/2	2
				25	118914	Wheel bolt 9/16 x 1 3/4 unf	12
				26	118651	Jam nut 9/16 unf	12

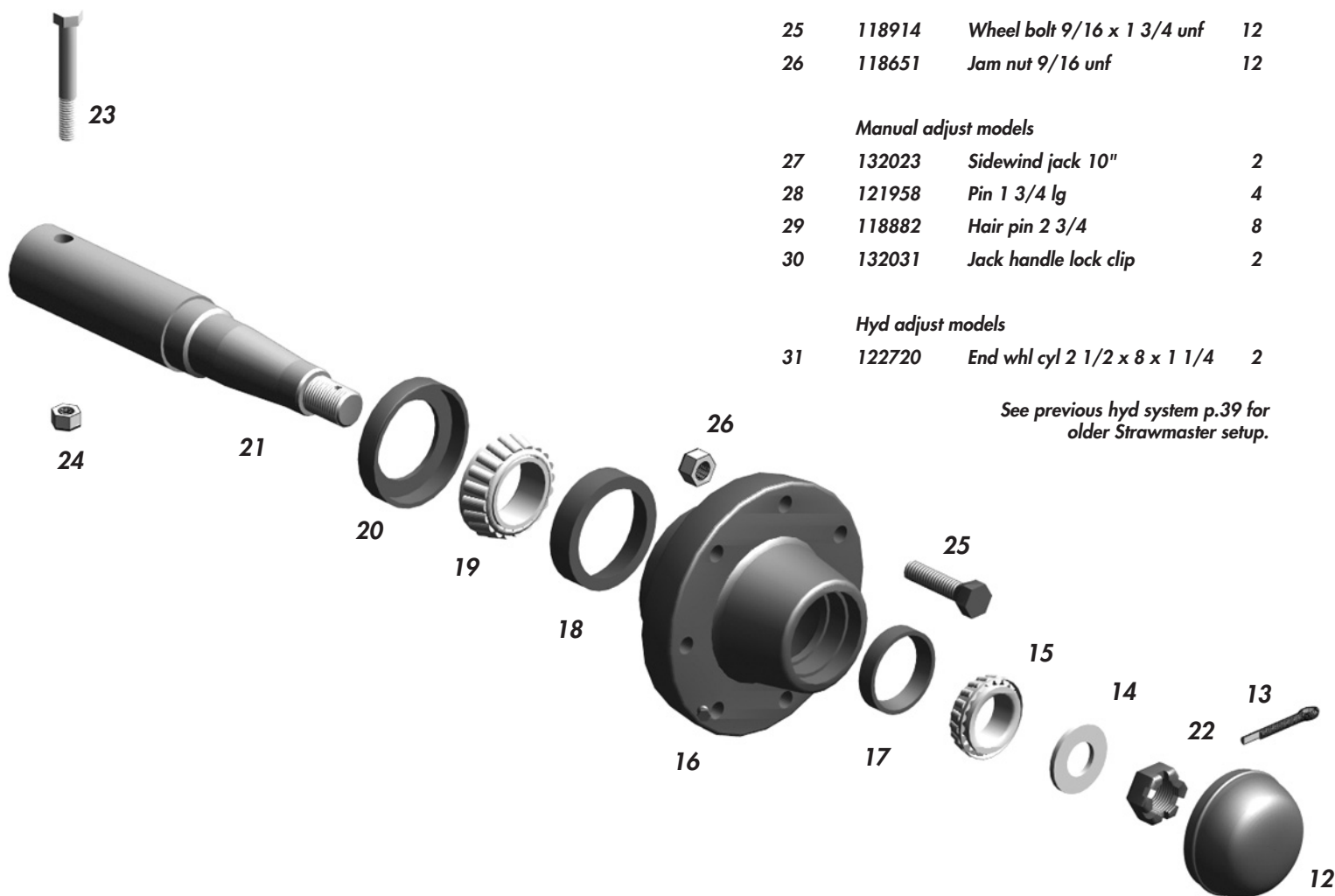
Manual adjust models

27	132023	Sidewind jack 10"	2
28	121958	Pin 1 3/4 lg	4
29	118882	Hair pin 2 3/4	8
30	132031	Jack handle lock clip	2

Hyd adjust models

31	122720	End whl cyl 2 1/2 x 8 x 1 1/4	2
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See previous hyd system p.39 for older Strawmaster setup.



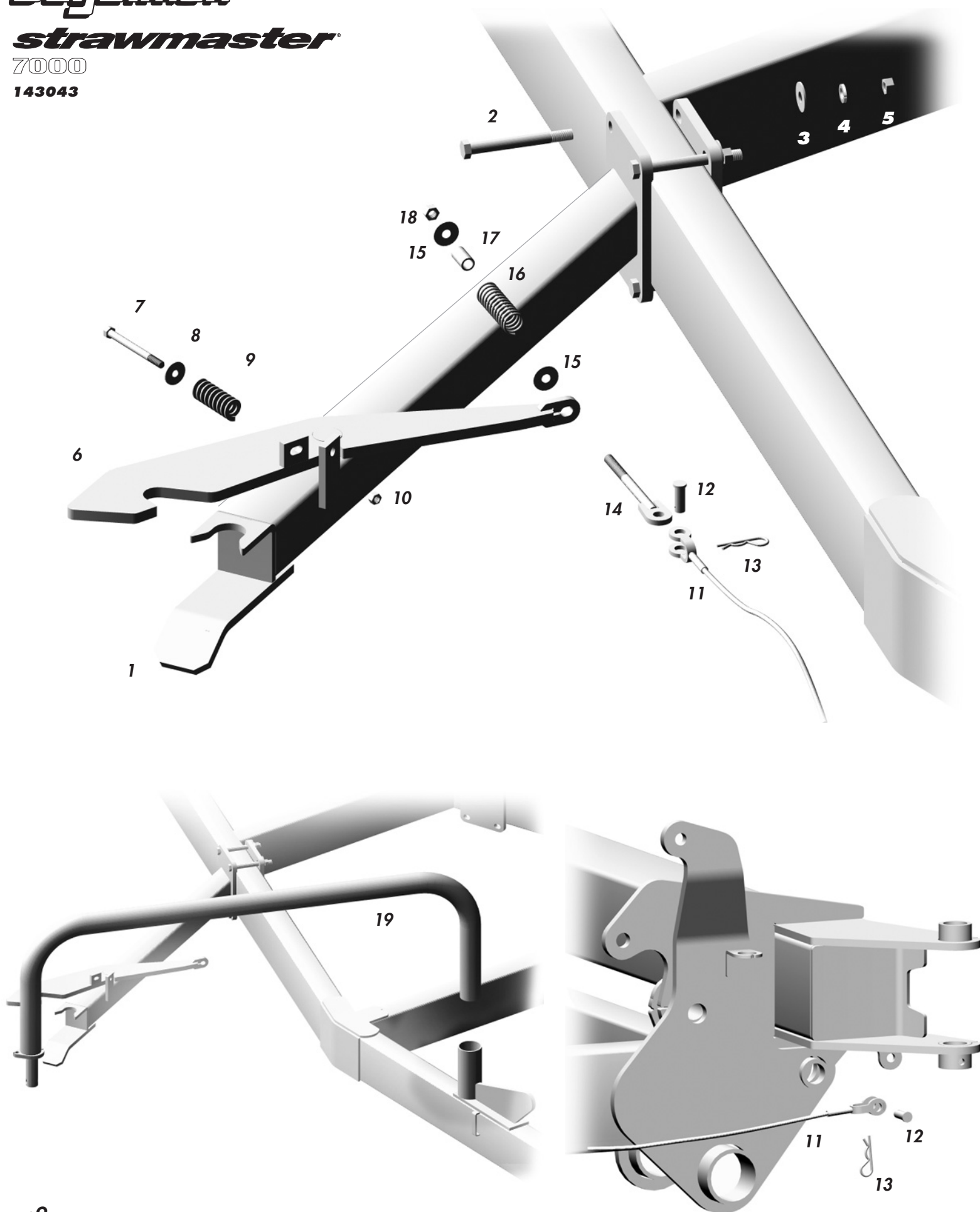
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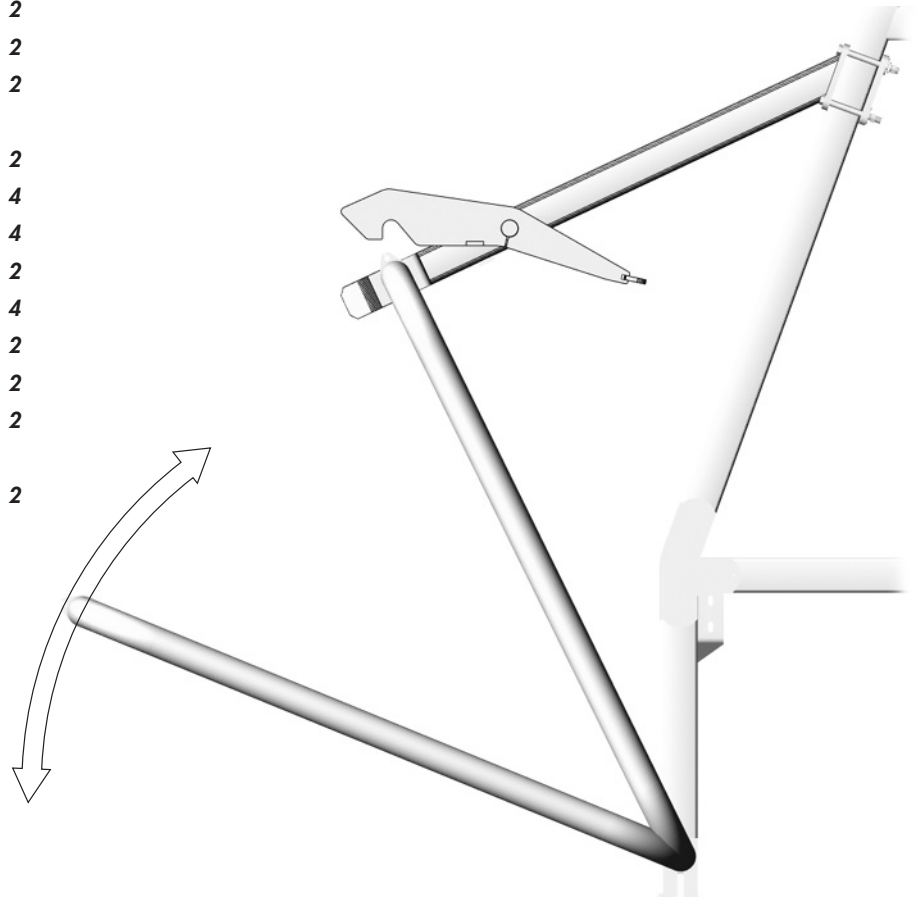
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Autofold latch



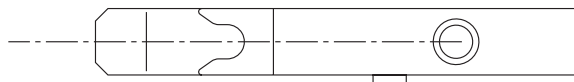
1	243389	LH autofold latch holder	1
	243388	RH	
2	118158	Bolt 3/4 x 7	8
3	118516	Flat washer 3/4	8
4	118509	Lock washer 3/4	8
5	118410	Nut 3/4	8
6	243385	LH autofold latch	1
	243384	RH	
7	118628	Bolt 1/2 x 5 1/2	2
8	118512	Flat washer 1/2	2
9	143034	Compression spring 4 lg	2
10	118420	Lock nut 1/2 unitq	2
11	243000	Autofold cable	2
12	243001	Cable pin	4
13	118830	Hair pin 3 1/4	4
14	243396	Eye bolt 5/8 x 8	2
15	118514	Flat washer 5/8	4
16	143115	Compression spring 5 lg	2
17	243394	Bushing 1 3/4	2
18	118448	Lock nut 5/8 unitq	2
19	243200	Swing arm pipe	2



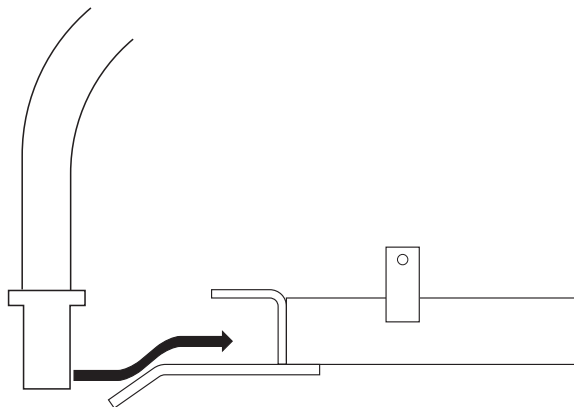
Insert the swing arm pipe into socket.

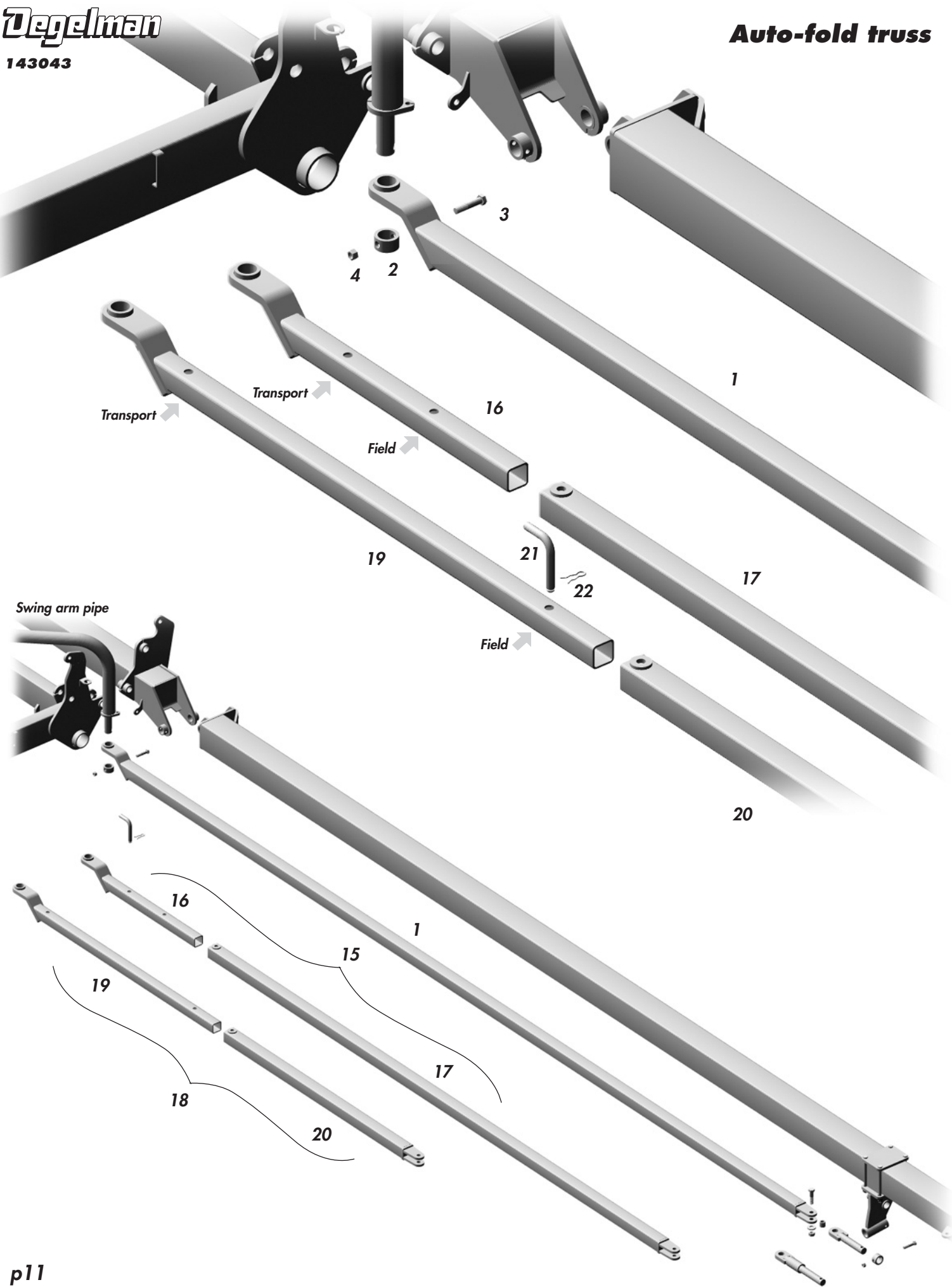
Rotate the Pipe forward so it connects with the centre of the slot on the Latch.

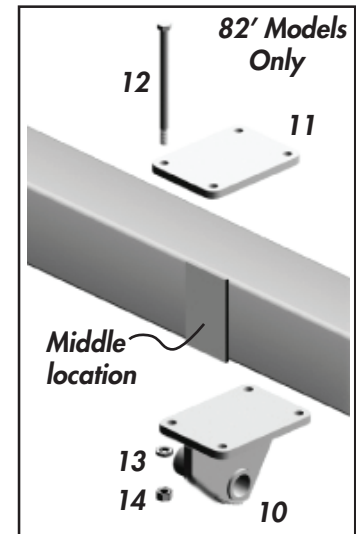
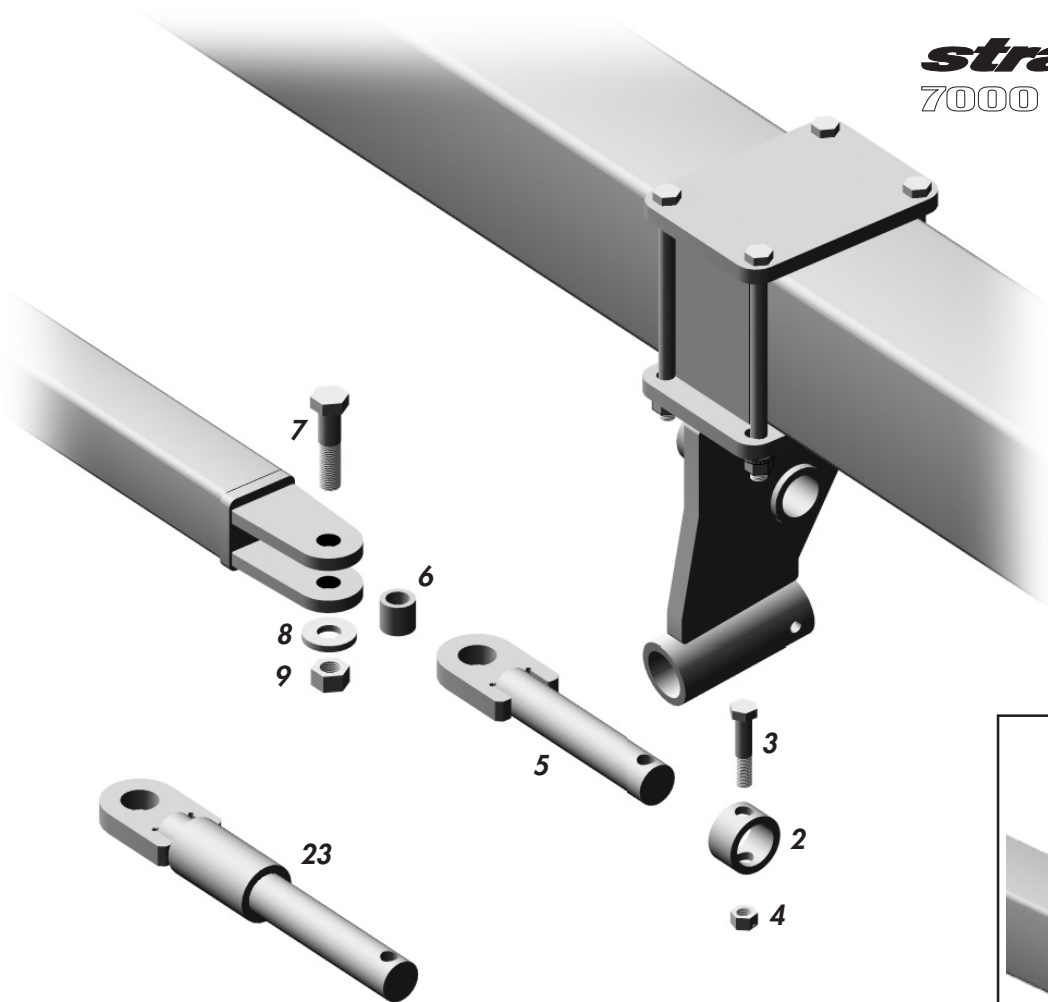
You might have to move the latch arm back & forth in the slotted bolt holes to align



The swing arm should strike the ramp plate of the latch holder at least half way up. If it doesn't hit the ramp at the proper point pull it up with an overhead crane and check it again







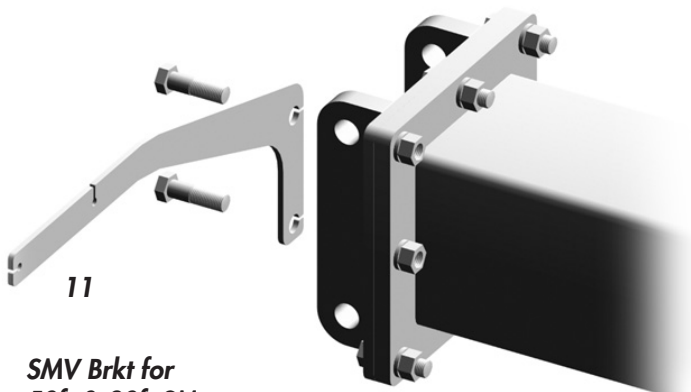
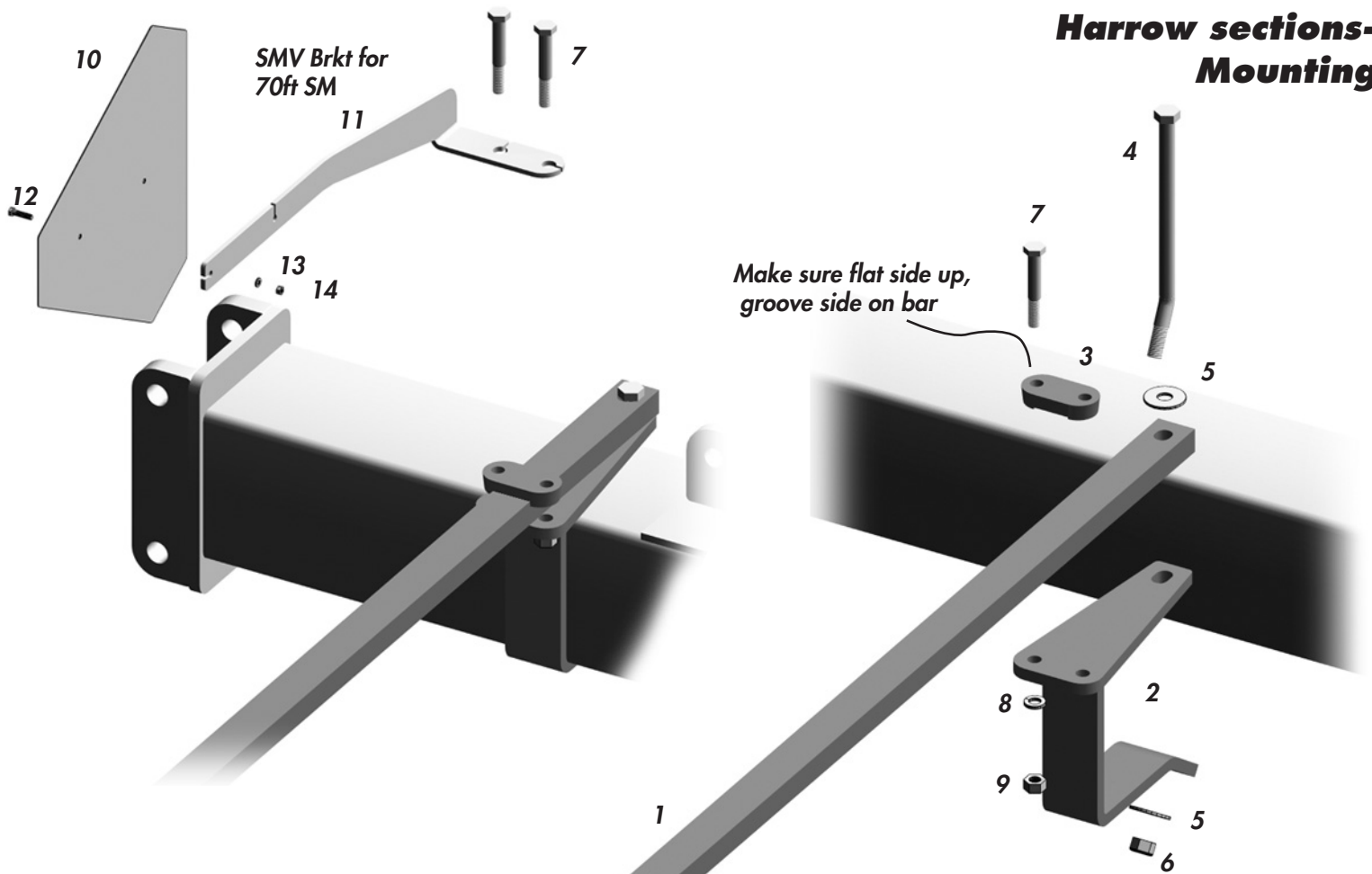
1	243335	Truss 70' & 82' SM	2
	244742	Truss 62' SM	
2	243158	Collar 2 3/4 OD x 1 1/2	4
3	118053	Bolt 3/4 x 3 1/2	4
4	118422	Lock Nut 3/4	4
5	243145	Swivel Shaft 82', 70', 62' & 50'	2
6	243159	Bushing 1 9/16 x 1 7/16	2
7	118180	Bolt 1 x 4	2
8	118510	Lock Washer 1	2
9	118412	Nut 1	2

10	244388	Swivel Shaft Holder - 82' Only requires...	1
11	243133	Bolt plate	2
12	118155	Bolt 3/4 x 11	8
13	118509	Lock washer 3/4	8
14	118410	Nut 3/4	8

15	243340	Truss 50' SM	2
	c/w...		
16	243341	Truss slider 50' SM	1
17	243215	Truss beam 50' SM	1
18	243834	Truss 30' SM	2
	c/w...		
19	243837	Truss slider 30' SM	1
20	243835	Truss beam 30' SM	1

	#10 & 13 c/w...		
21	243189	Bent transport pin	1
22	118882	Hair pin 2 3/4	1
23	243840	Swivel shaft 30' SM	2

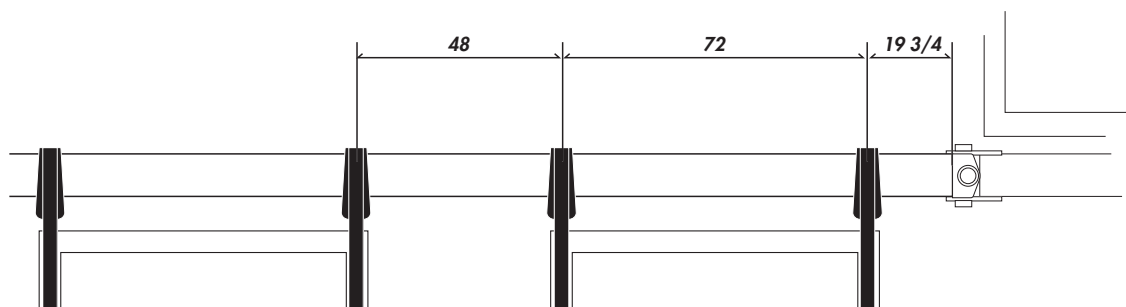
Harrow sections-Mounting

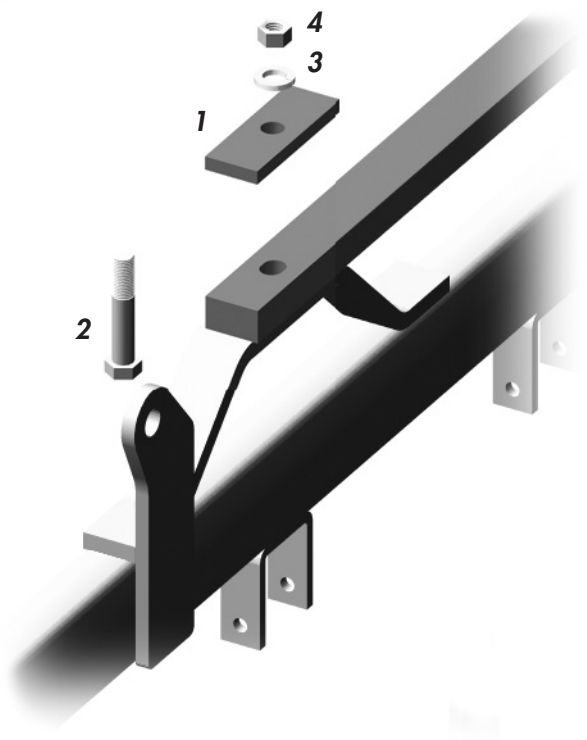


**SMV Brkt for
50ft & 30ft SM**

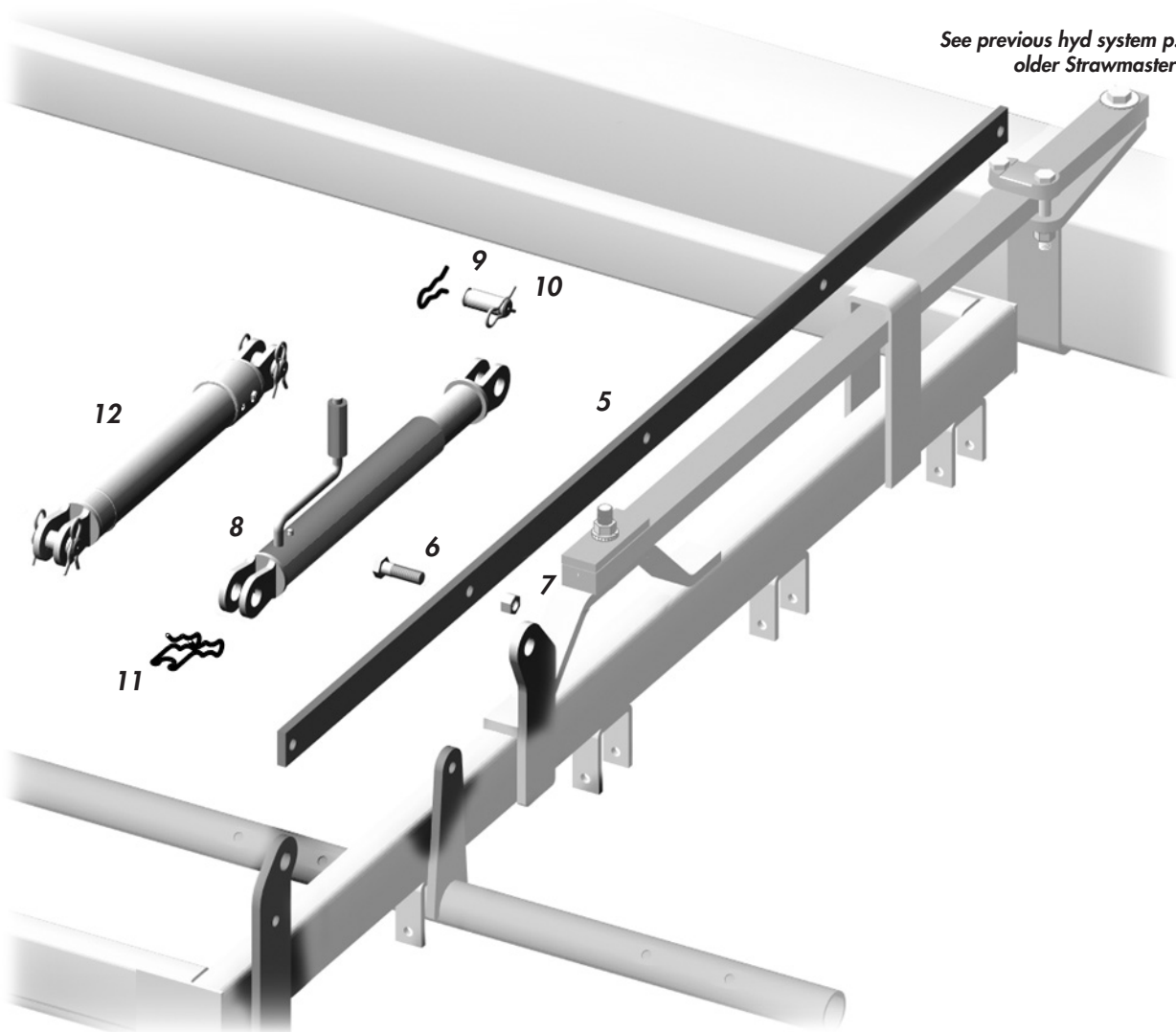
(Obsolete - current models
come with brkt for 70 ft
SM shown above.)

			82'	70'	62'	50'	30'
1	243333	Spring steel bar	18	14	10	10	6
2	243055	Frame holder	18	14	10	10	6
3	650250	Cast shank bolt bar	18	14	10	10	6
4	118630	Bent bolt 3/4 x 12 1/2	18	14	10	10	6
5	118516	Flat washer 3/4	36	28	20	20	12
6	118422	Lock nut 3/4	18	14	10	10	6
7	118094	Bolt 5/8 x 4	36	28	20	20	12
8	118508	Lock washer 5/8	36	28	20	20	12
9	118407	Nut 5/8	36	28	20	20	12
10	142135	SMV sign	1				
11	243163	SMV brkt 70', 50', 30'	1				
	243162	SMV brkt 30' & 50' (obs)	-				
12	118123	Bolt 1/4 x 1	2				
13	118533	Lock washer 1/4	2				
14	118402	Nut 1/4	2				





			82'	70'	62'	50'	30'
1	243061	Back-up bar	18	14	10	10	6
2	118119	Bolt 3/4 x 4	18	14	10	10	6
3	118509	Lock washer 3/4	18	14	10	10	6
4	118410	Nut 3/4	18	14	10	10	6
5	243060	Link bar 5 hole	9	7	7	5	3
	244217	Link bar 4 hole	9	7	7	5	3
6	118625	Bolt 5/8 x 2 unf					
7	118700	Lock nut 3/4 unf					
		5 row	45	35	35	25	15
		4 row	36	28	28	20	12
8	132023	Sidewind jack	9	7	7	5	3
9	121958	Pin 1 3/4	18	14	14	10	6
10	118882	Hair pin 2 3/4	36	28	28	20	12
11	132031	Jack handle lock clip	9	7	7	5	3
12	122715	Cylinder 2 x 10 x 1 1/4	9	7	7	5	3



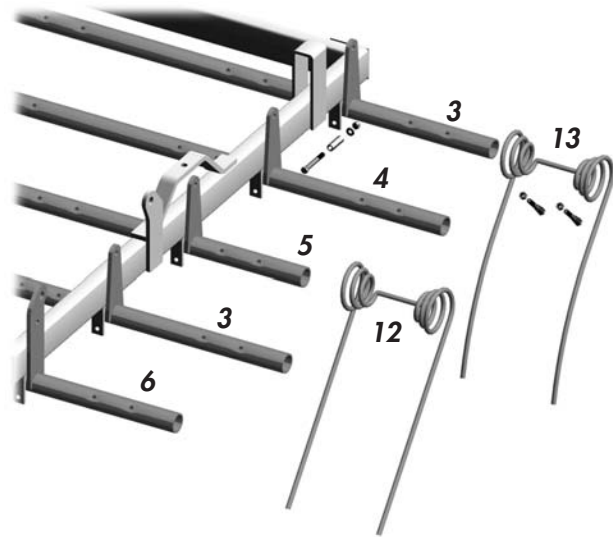
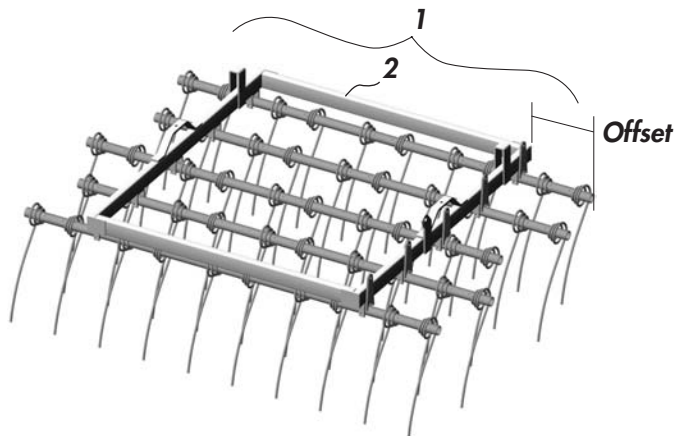
See previous hyd system p.39 for
older Strawmaster setup.

Harrow sections are broken up into 10' and 6' section assemblies. Most consist of 5 rows of pipe with attached harrow tines. (although 4 row - 10' sections are still available). Different tine options are available for these sections (1/2", 9/16" - straight or curved, 5/8").



10' Section - 5 Row

Standard - 5 Row (10 ft. section shown)



Number of 10' Section Assemblies req'd			82'	70'	62'	50'	30'
1	243194	1/2 straight tine	-	7	-	5	3
	243980	9/16 straight tine	7	7	5	5	3
	243256	9/16 straight tine (Individual Track Option)	7	7	5	5	3
	243805	9/16 curved tine	7	7	5	5	3
	244250	5/8 straight tine	7	7	5	5	3
	244524	5/8 straight tine (wear tip)	-	7	-	5	3

each 10' Section c/w...

2	243035	Frame - 5 row	1
	243257	Frame - 5 row (Individual Track Option)	1

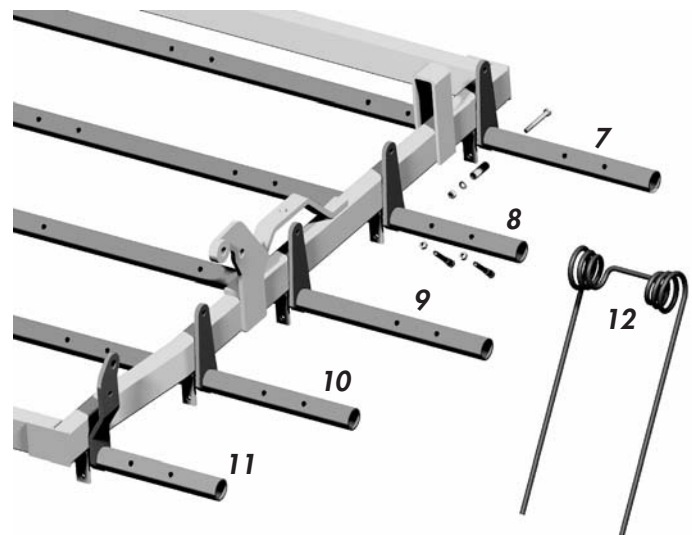
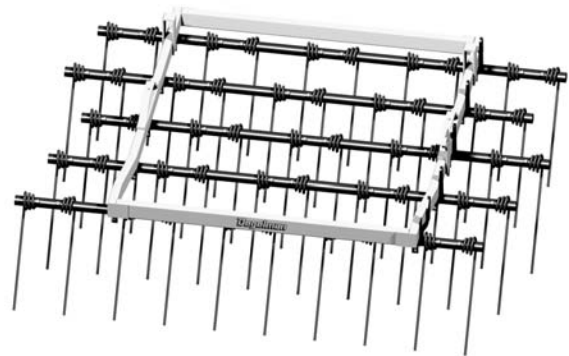
Pipe - Standard

3	243045	19" offset	1
4	243046	23" offset	2
5	243047	15" offset	1
6	243048	19" offset- cyl lug	1

Pipe - Individual Track Option

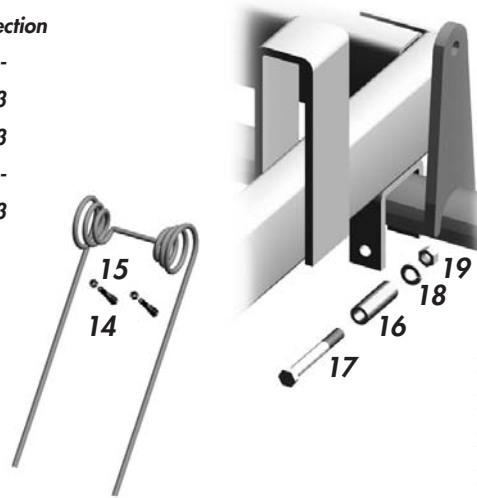
7	243490	20 21/32" offset	1
8	243491	15 27/32" offset	1
9	243492	23 1/16" offset	1
10	243493	18 1/4" offset	1
11	243494	14 15/16" offset- cyl lug	1

Individual Track Option - 5 Row (9/16 straight tine only)



Common Hardware

Number of 26" Tines (per row)			10' Sections	6' Section
12	143103	1/2 Straight	5	-
	143112	9/16 Straight	5	3
	143113	5/8 Straight	5	3
	143501	5/8 Straight (wear tip)	5	-
13	143110	9/16 Curve	5	3
Hardware required - per tine				
14	118706	Bolt 1/2 x 2 3/4 HIHD	2	
15	118420	Lock nut 1/2	2	



Hardware required - per pipe			
16	243059	Bushing 2 7/16	2
17	118126	Bolt 1/2 x 4	2
18	118504	Lock washer 1/2	2
19	118405	Nut 1/2	2

6' Section - 5 Row

Number of 6' Section Assemblies req'd			82'	62'
20	244366	9/16 straight tine	2	2
	244060	9/16 straight tine (Individual Track Option)	2	2
	244367	9/16 curve tine	2	2
	244368	5/8 straight tine	2	2

each 6' Section c/w...

21	244397	Frame five row - 6 ft.	1
	244061	Frame five row - 6 ft. (Individual Track Option)	1

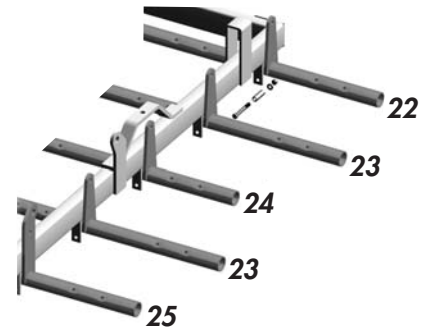
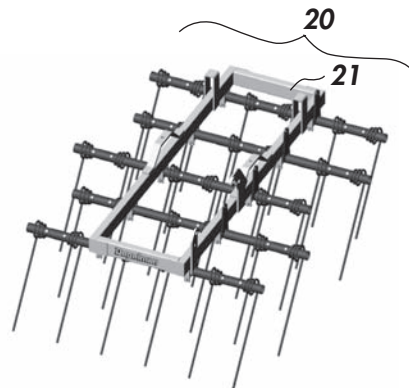
Pipe - Standard

22	244400	19" offset	1
23	244401	23" offset	2
24	244402	15" offset	1
25	244403	19" offset- cyl lug	1

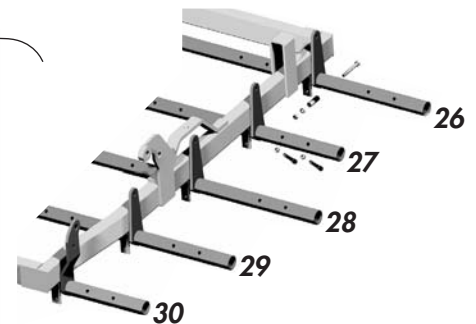
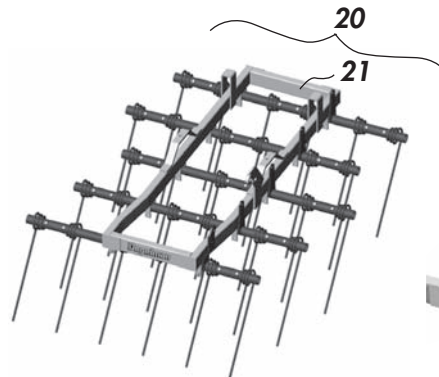
Pipe - Individual Track Option

26	244068	20 21/32" offset	1
27	244069	15 27/32" offset	1
28	244070	23 1/16" offset	1
29	244071	18 1/4" offset	1
30	244072	14 15/16" offset- cyl lug	1

Standard - 5 Row (6 ft. section shown)



Individual Track Option - 5 Row



10' Section - 4 Row

Number of 10' Section Assemblies req'd			70'	50'	30'
31	244205	5/8 straight tine	7	5	3

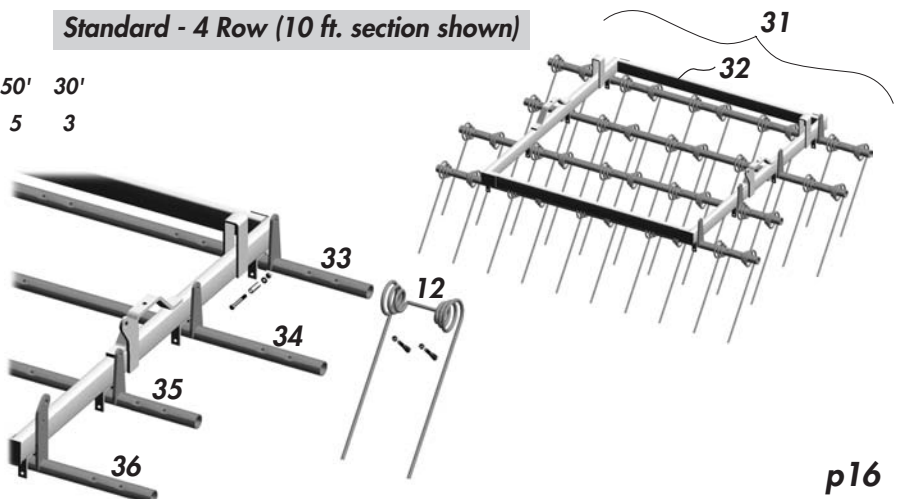
each 10' Section c/w...

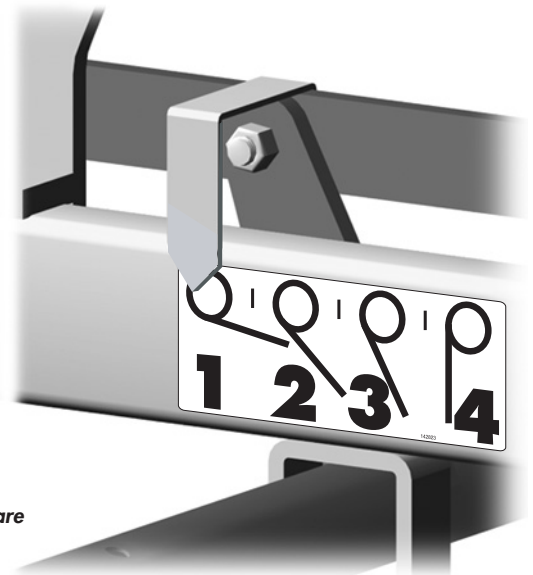
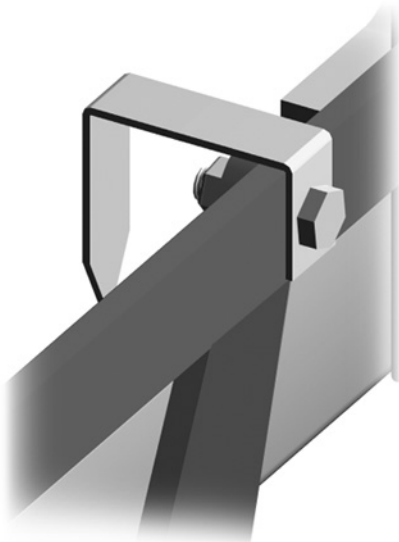
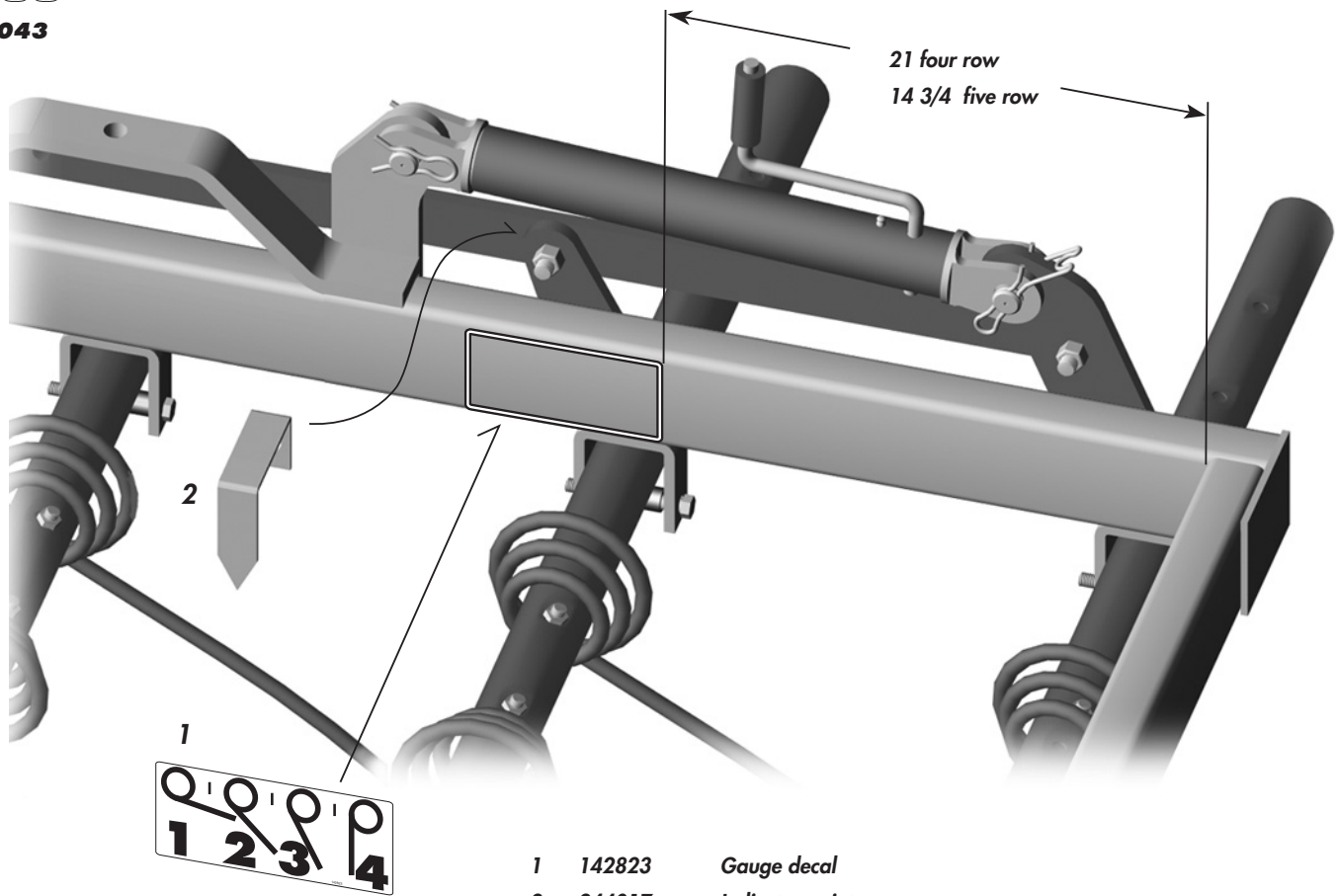
32	244206	Frame four row	1
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Pipe - Standard

33	244212	Row 1, 17 1/2" offset	1
34	244213	Row 2, 23 1/4" offset	1
35	244214	Row 3, 14 3/4" offset	1
36	244215	Row 4, 20 1/2" offset- cyl lug	1

Standard - 4 Row (10 ft. section shown)





**INSTALLING
 INDICATOR**

- Take off link bar to pipe lug hardware (2nd row from rear)
- Place indicator over bar & lug
- Reattach hardware; do not over tighten - allow movement

DECAL

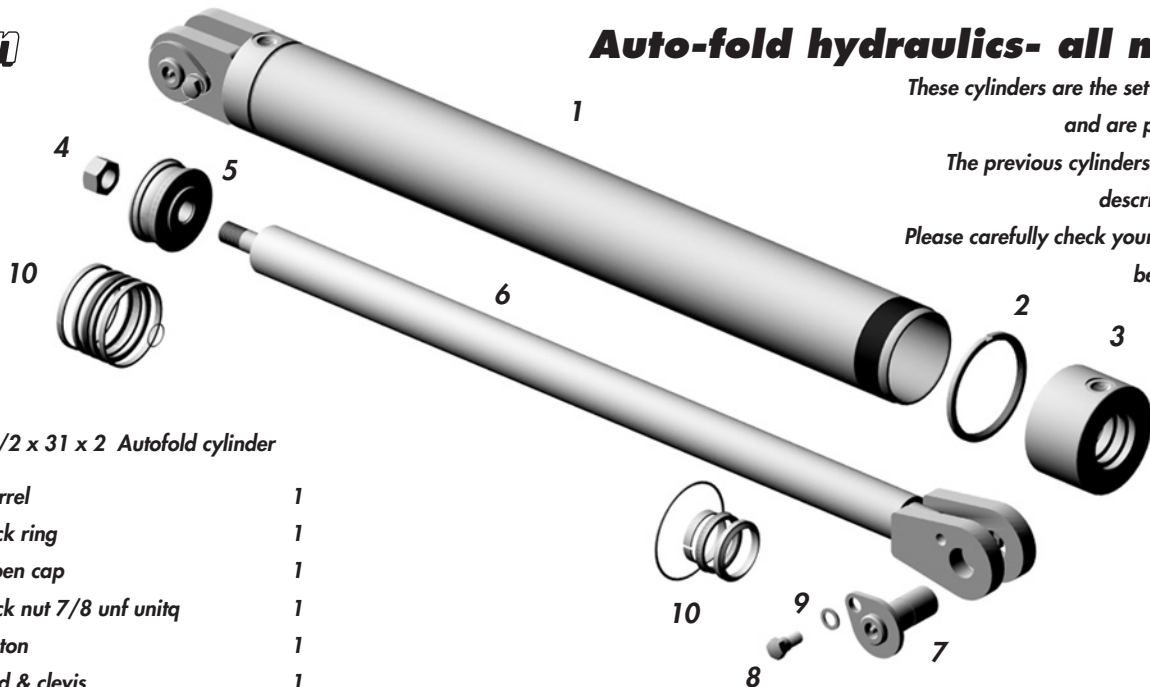
- Crank jack closed; least aggressive angle
- Place decal distance indicated for your machine (The pointer should read "one")

Auto-fold hydraulics- all models

These cylinders are the set currently used
and are painted yellow.

The previous cylinders are black and
described on pg 29.

Please carefully check your part numbers
before ordering.



122733, 3 1/2 x 31 x 2 Autofold cylinder

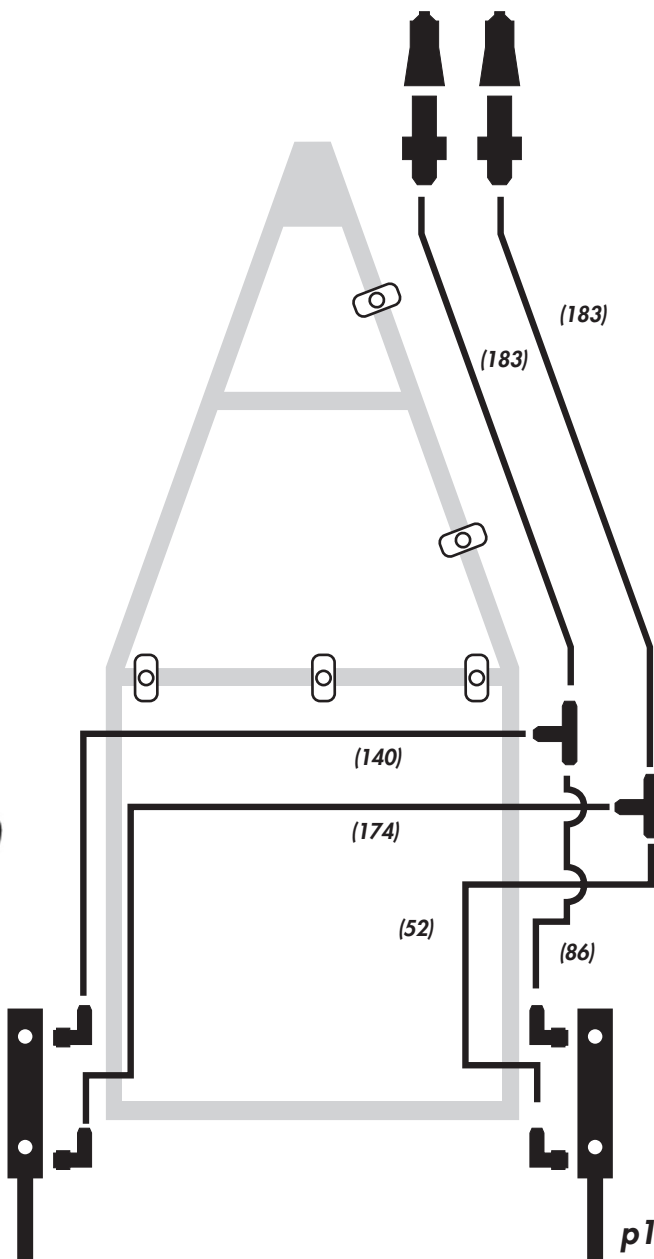
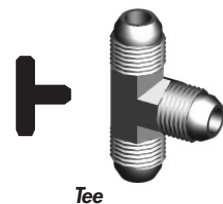
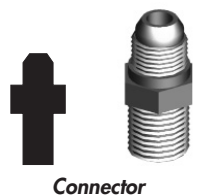
1	121763	Barrel	1
2	122658	Lock ring	1
3	122773	Open cap	1
4	118441	Lock nut 7/8 unf unitq	1
5	122663	Piston	1
6	122769	Rod & clevis	1
7	122755	Clevis pin	2
8	118796	Shld bolt 1/2 x 1 1/8	2
9	118924	Flat washer .591	2
10	122791	Seal kit	1

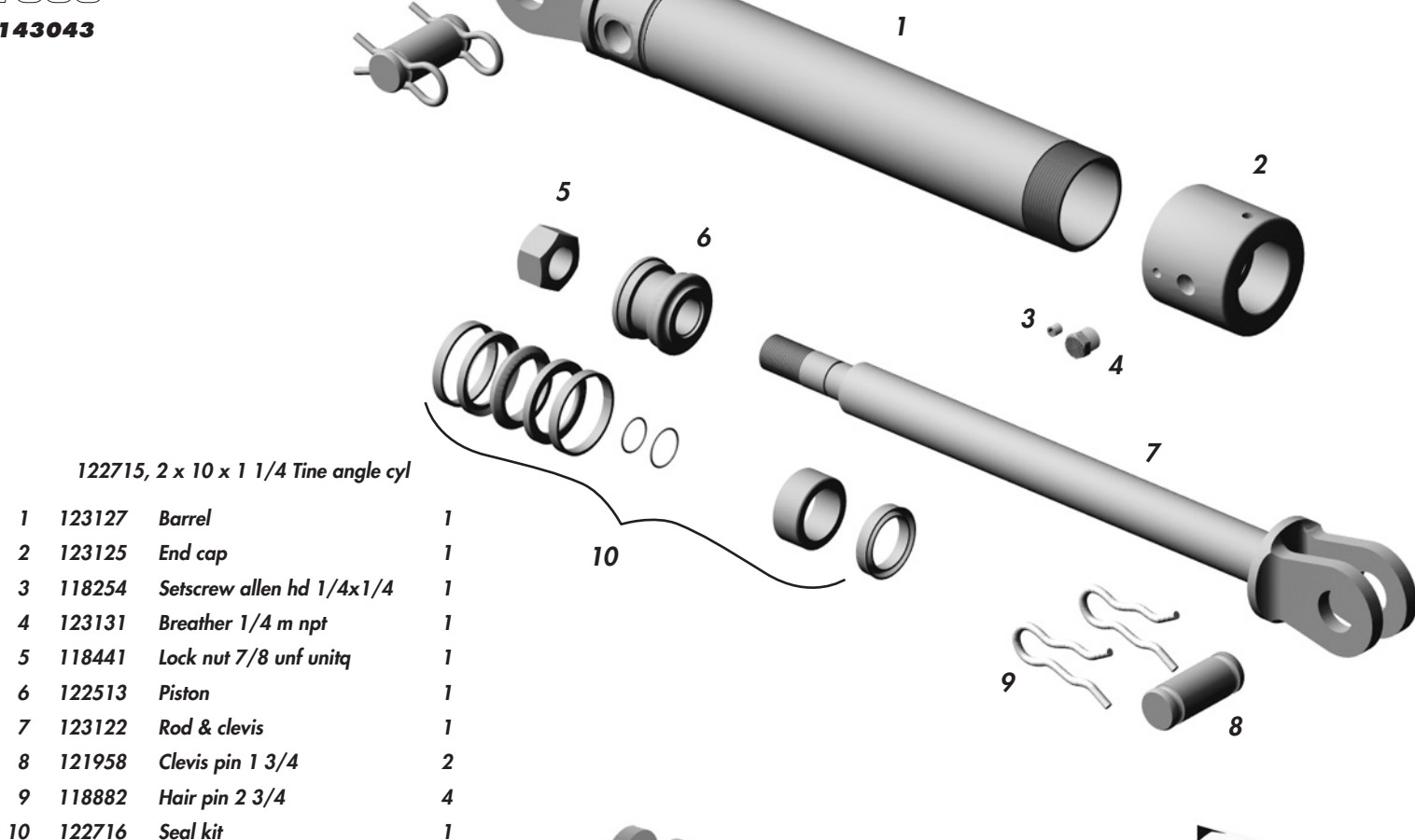
141576	Quick coupler	2
141514	Connector m 3/4 x 1/2NPT	2
141501	Tee 3/4m JIC	2
141504	EL 3/4m JIC x ORB	4

Hose 1/2, 3/4 JIC f swivel

126567	(183)	2
126599	(140)	1
126600	(174)	1
126597	(52)	1
126598	(86)	1

11	650256	Two hose clip	5
12	118530	Lock washer 5/16	5
13	118427	Nut 5/16	5





Rod end

Piston end

EL fitting

Orifice

Pins to remove

Clevis

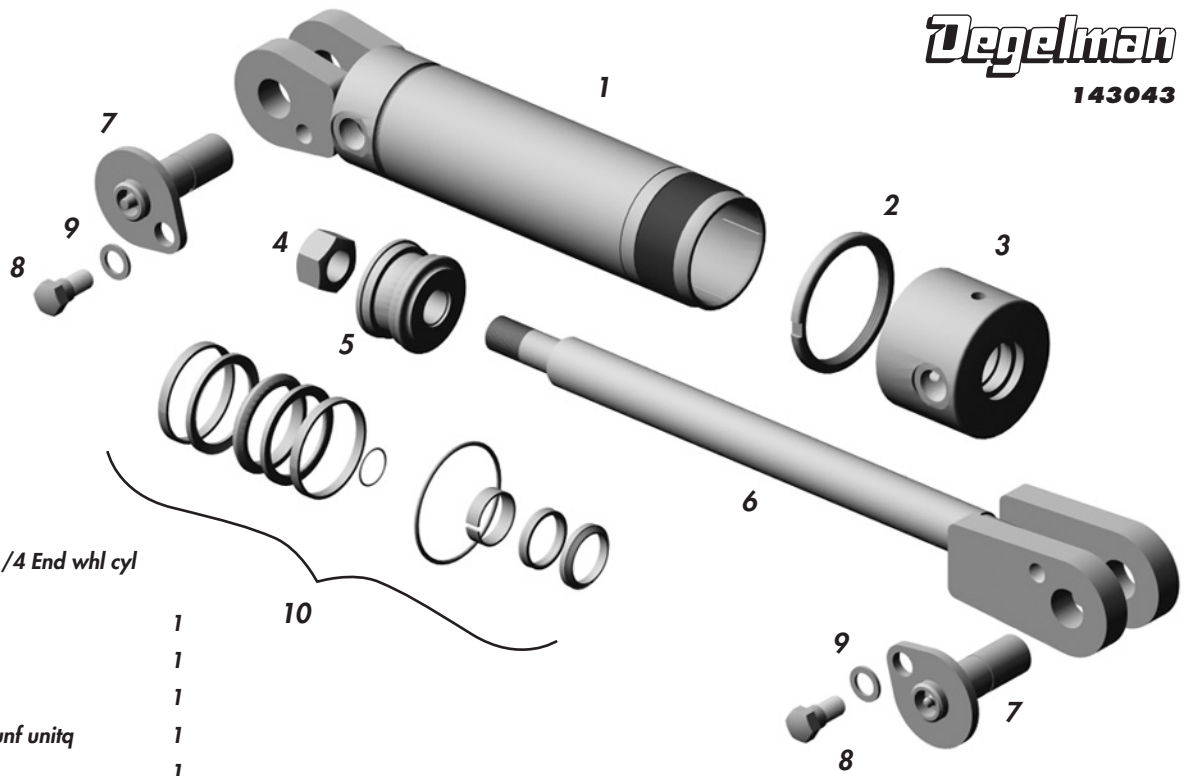
Rotate

Unslotted
side faces
out

Slotted
side goes
inside

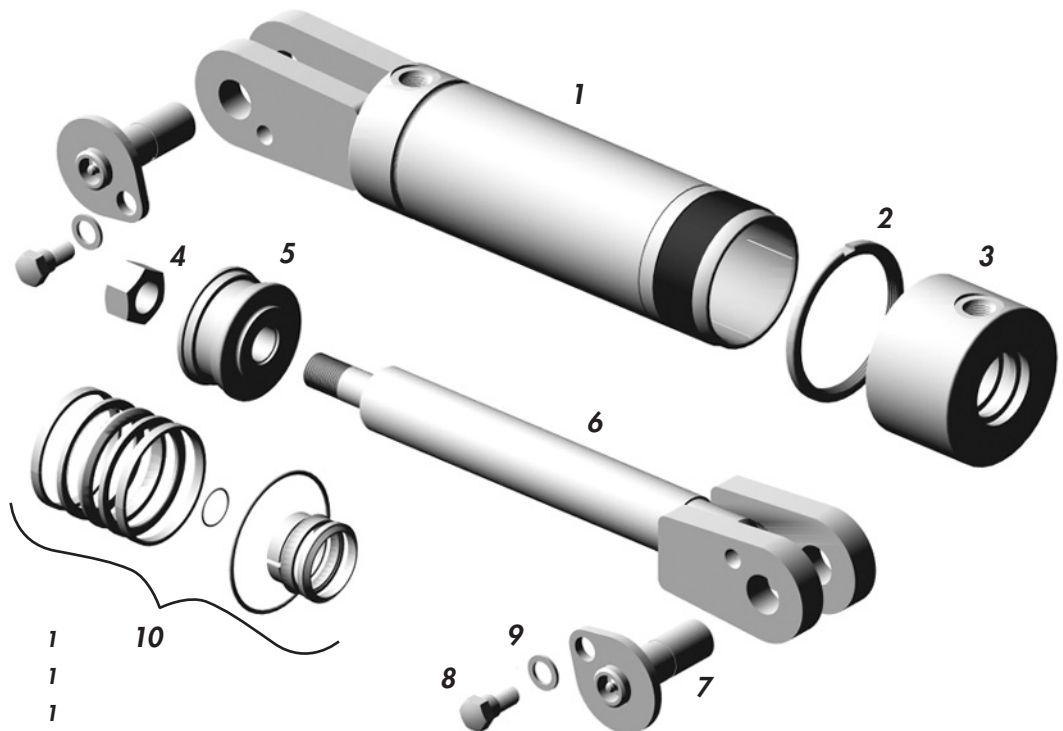
To make placing the orifice into the port easier have the port facing up.

- Take the pins out of the clevis on the barrel end
- Lift clevis out of the lug it is attached to
- Rotate the barrel 90°
- Place orifice in cylinder's port - slot side in
- Install EL fitting - hand tighten
- Back off fitting one turn before tightening nut - creates small gap for orifice to float in
- Re-attach the cylinder to the lug



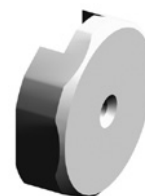
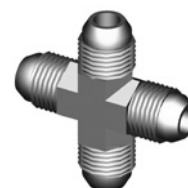
122720, 2 1/2 x 8 x 1 1/4 End whl cyl

1	123114	Barrel	1
2	122725	Lock ring	1
3	122723	Open cap	1
4	118441	Lock nut 7/8 unf unitq	1
5	122726	Piston	1
6	122086	Rod & clevis	1
7	118930	Clevis pin	2
8	118796	Shld bolt 1/2 x 1 1/8	2
9	118924	Flat washer .591	2
10	122721	Seal kit	1



122740, 3 x 8 x 1 5/8 Trailer whl cyl

1	123102	Barrel	1
2	122558	Lock ring	1
3	122807	Open cap	1
4	118441	Lock nut 7/8 unf unitq	1
5	122563	Piston	1
6	122084	Rod & clevis	1
7	118930	Clevis pin	2
8	118796	Shld bolt 1/2 x 1 1/8	2
9	118924	Flat washer .591	2
10	122811	Seal kit	1



Connector

Tee

EL 2 1/2

EL

Cross

Orifice

141576	Quick coupler
141514	Connector m 3/4 x 1/2NPT
141501	Tee 3/4m JIC
141580	EL 3/4m JIC x ORB 2 1/2
141504	EL 3/4m JIC x ORB
141603	Cross 3/4m JIC
141506	Orifice .07 ID

30ft

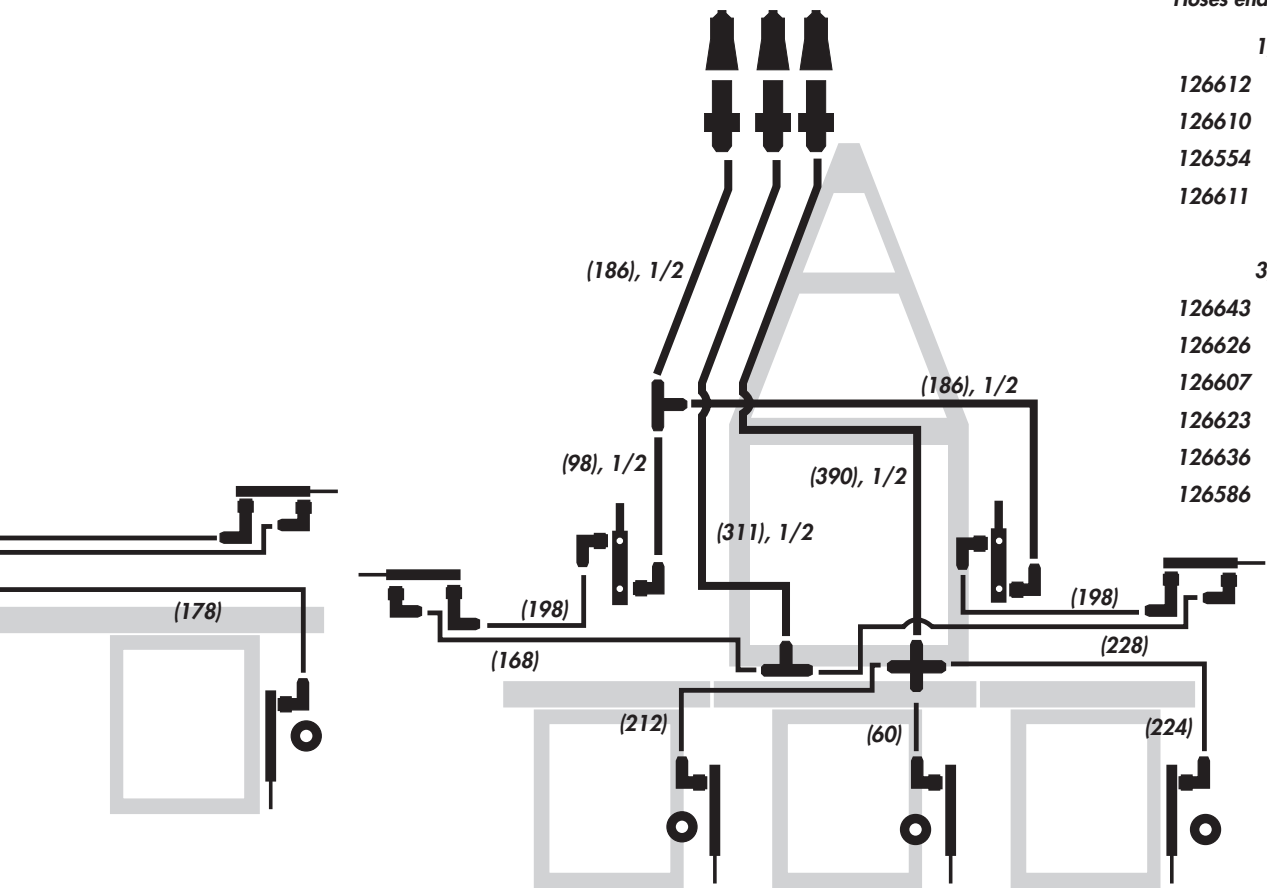
Hoses ends 3/4 JIC f swivel

1/2 ID hose

126612	(186)	2
126610	(311)	1
126554	(390)	1
126611	(98)	1

3/8 ID hose

126643	(198)	2
126626	(168)	1
126607	(228)	1
126623	(212)	1
126636	(224)	1
126586	(60)	1



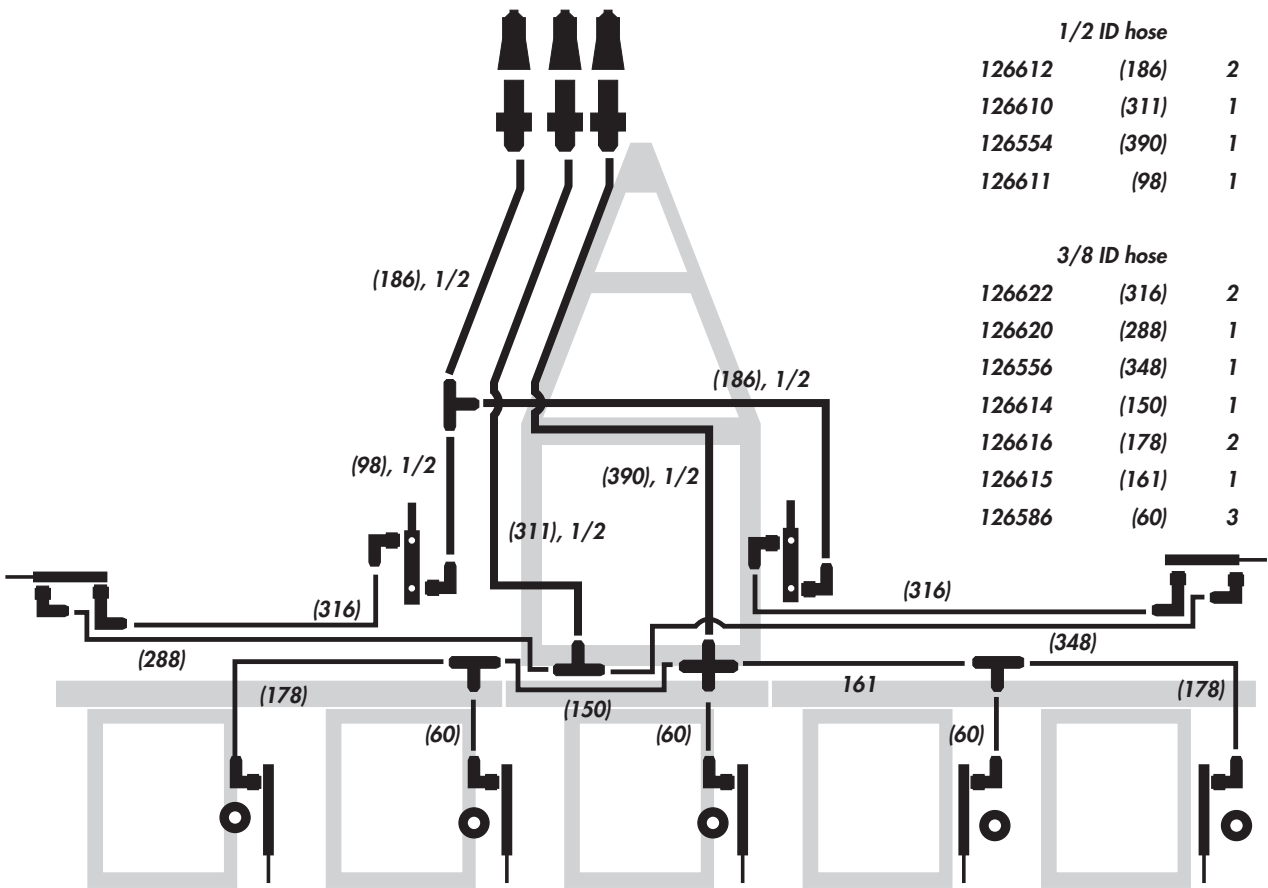
50ft

1/2 ID hose

126612	(186)	2
126610	(311)	1
126554	(390)	1
126611	(98)	1

3/8 ID hose

126622	(316)	2
126620	(288)	1
126556	(348)	1
126614	(150)	1
126616	(178)	2
126615	(161)	1
126586	(60)	3

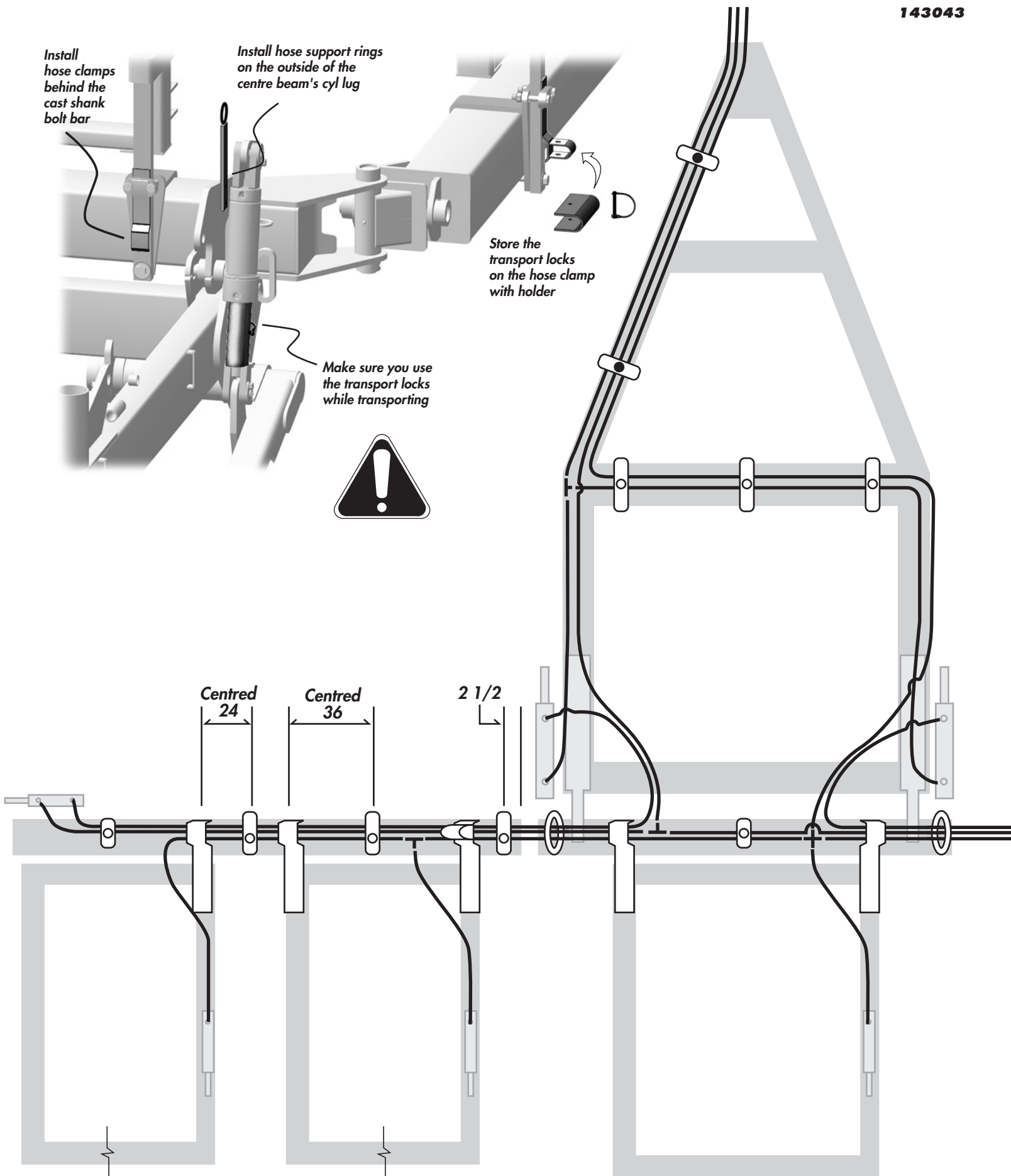


Install hose clamps behind the cast shank bolt bar

Install hose support rings on the outside of the centre beam's cyl lug

Store the transport locks on the hose clamp with holder

Make sure you use the transport locks while transporting



Hydraulic adjustable model

Degelman
strawmaster
 7000
 143043

Hose clamp,
three hose



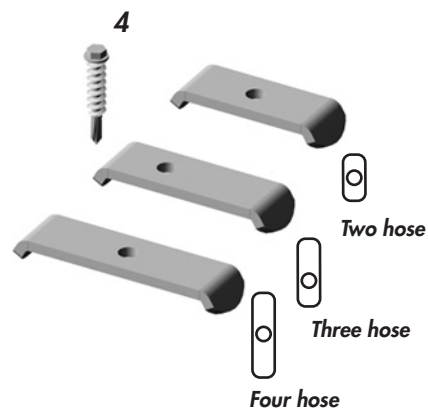
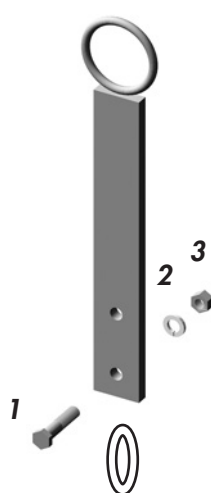
Hose clamp,
three hose w. holder



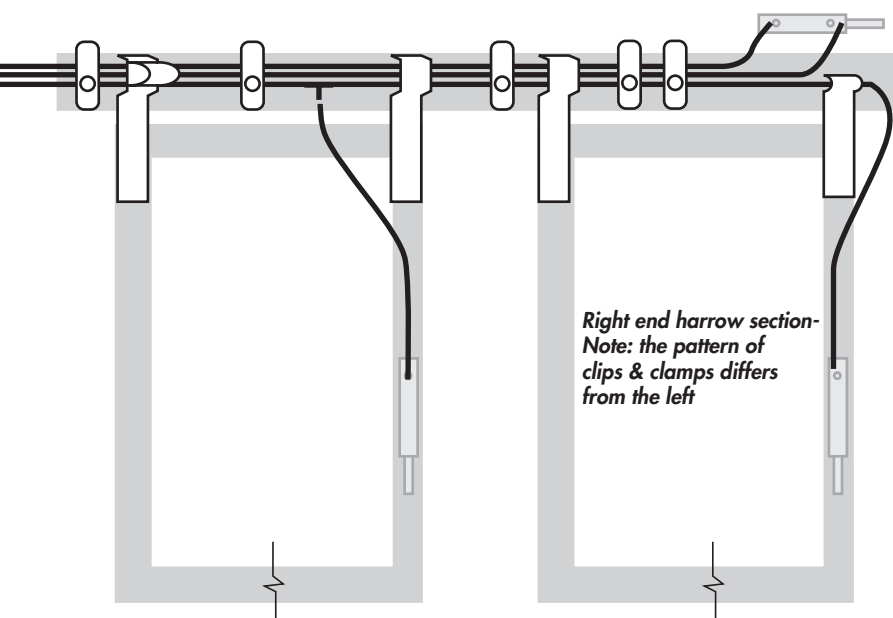
Hose clamp,
one hose

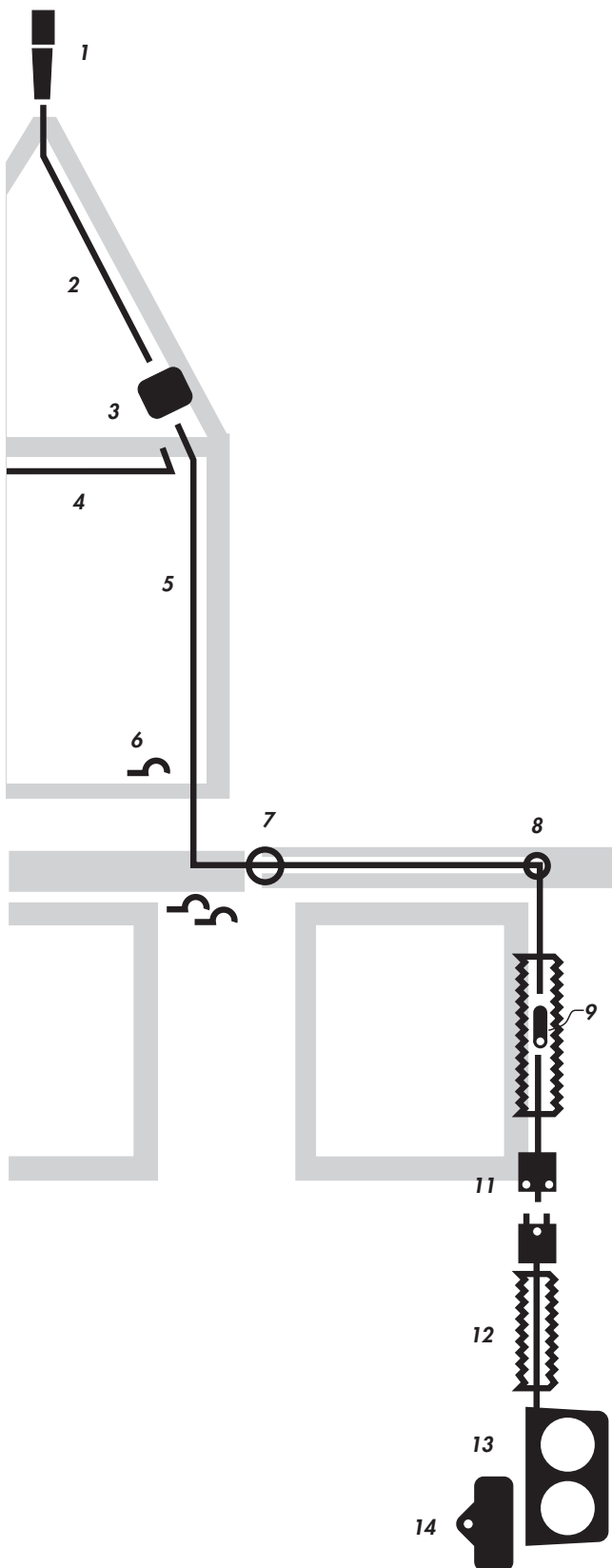


Hose support ring

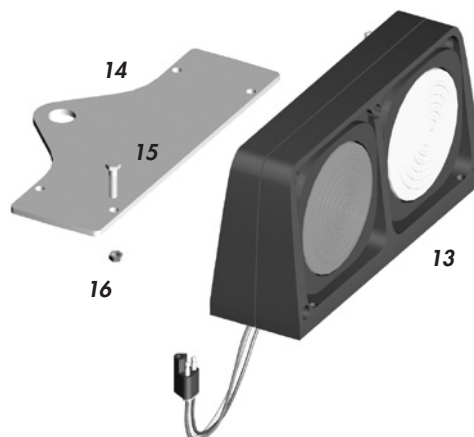


		70'	50'	30'						
243846	Hose clamp, three hose	10	6	2						
243845	Hose clamp, 3 hose w. holder	2	2	2						
243849	Hose clamp, one hose	1	1	1						
243850	Hose support ring	2	2	2	1	118603	Bolt 3/8 x 1 3/4		4	
650256	Hose clip two hose	3	2	2	2	118503	Lock washer 3/8		4	
243853	Hose clip three hose	14	9	5	3	118403	Nut 3/8		4	
660747	Hose clip four hose	3	3	3	4	118915	Self tap screw 5/16x1 3/4	18	12	8





1	129027	7 Pole Plug	1
2	244115	Wire, 16/4 Super VU 17ft	1
3	244105	Junction box	1
		Wire, 16/3 Super VU - Left	
4	244114	53ft (70ft SM)	1
	244113	42ft (50ft SM)	1
	244112	32ft (30ft SM)	1
		Wire, 16/3 Super VU - Right	
5	244111	46ft (70ft SM)	1
	244110	36ft (50ft SM)	1
	244109	26ft (30ft SM)	1
6	129042	Rubber Cushion Clamp 3/8	6
7	244120	Grommet 5/8 x 5/8	2
8	129041	Grommet 3/8 x 1/4	2
9	244108	Split Loom 3/8 x 39 1/2	2
10	129043	Crimp, Butt Splice 16 gauge	6
11	129022	Triplug Wire 18	2
12	244107	Split Loom 3/8 x 10 1/2	2
13	129020	Dual Lamp (RH)	1
	129021	Dual Lamp (LH)	1
14	244116	Lamp Base Plate	2
15	118756	Bolt 1/4 x 1 1/4	8
16	118483	Lock Nut 1/4	8
17	129033	Straight Cord Connector	3
18	118717	Lock Nut 1/2 NPT	3
19	129035	Terminal Strip 5 connection	1
20	118735	Screw 1/4 x 1 self tap	2
21	118588	Rubber Washer 3/16	2
22	118716	Screw #8 x 3/4	2





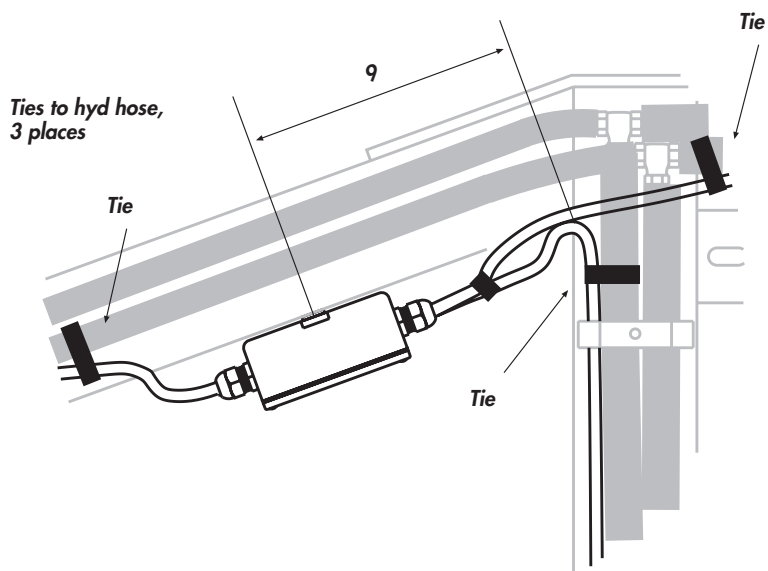
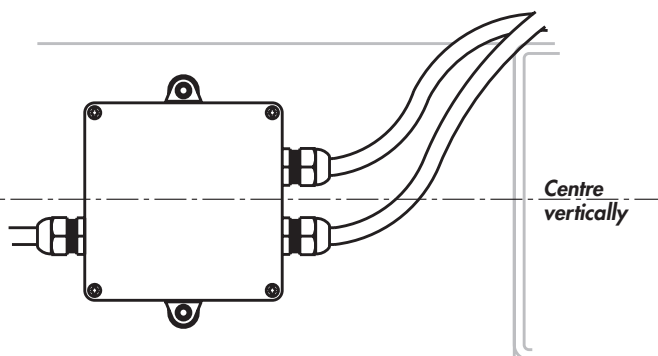
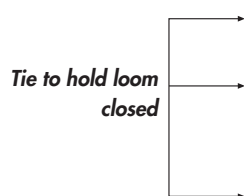
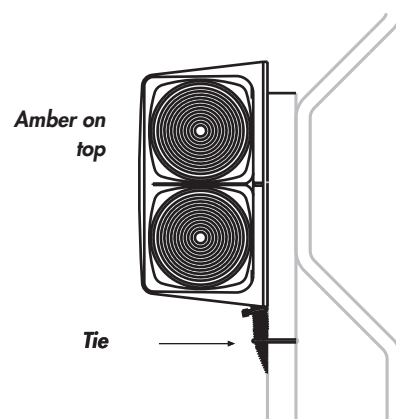
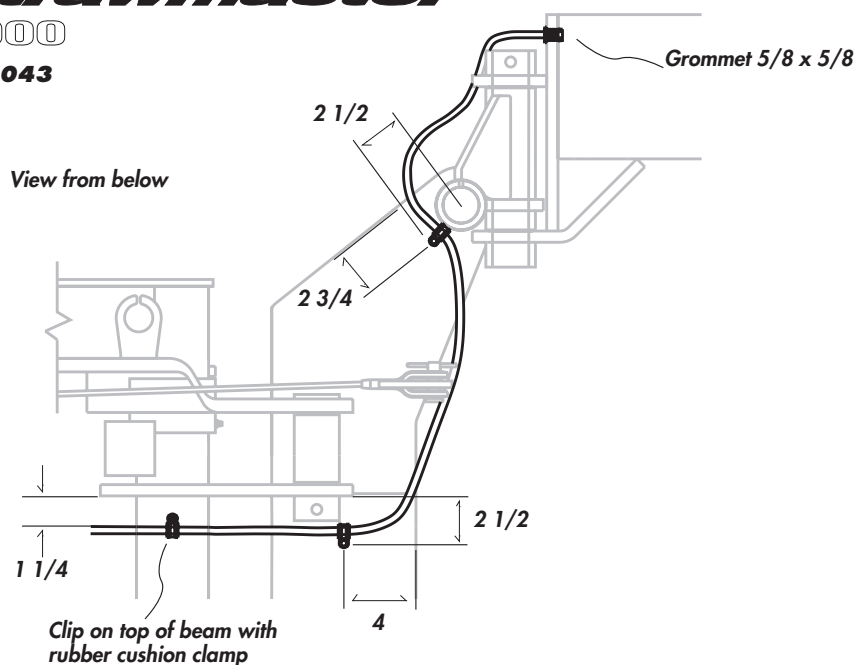
Degelman

strawmaster

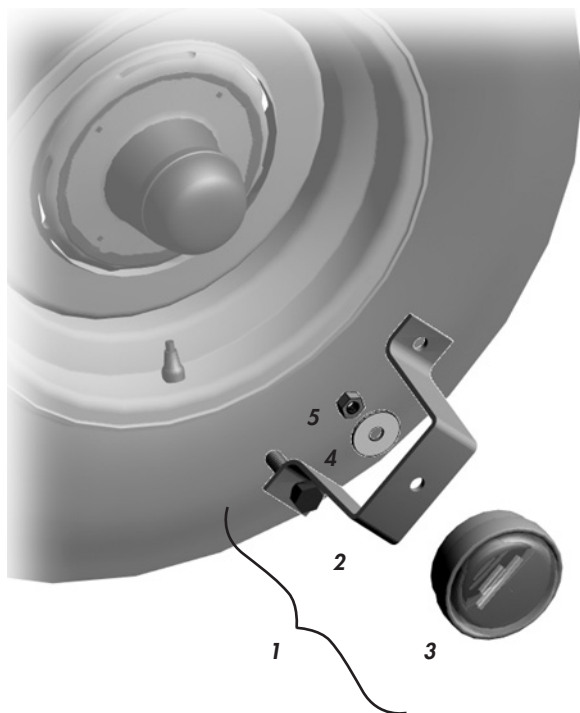
7000

143043

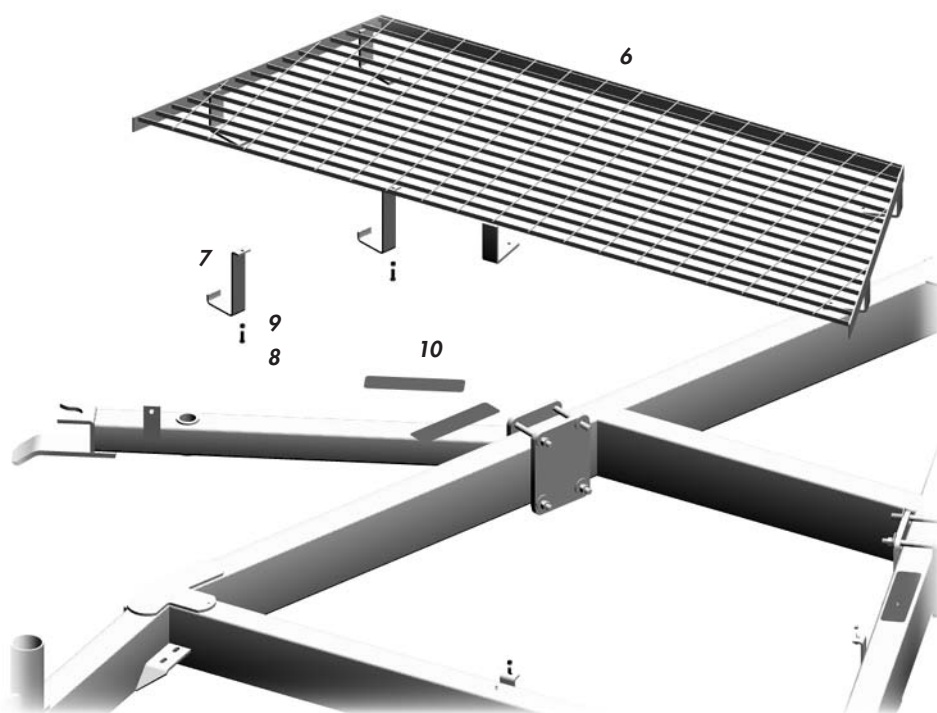
Safety lights- fastening



Options- Acremeter & Valmar® platform



1	243609	Acremeter kit 70ft SM	1
or	243608	Acremeter kit 50ft SM	1
	c/w...		
2	243606	Mounting brkt	1
3	241429	Acremeter 70ft SM	1
or	241428	Acremeter 50ft SM	1
	c/w...		
4	118512	1/2 flat washer	1
5	118419	1/2 lock nut unf	1
6	243961	Platform	1
7	243965	Platform clamp	5
8	118703	Lock nut 5/16	5
9	118145	Bolt 5/16 x 1 1/4	5
10	243966	Non-skid grip	4



Decals & reflectors

Trailer frame

142438	Strawmaster 7000	2
142383	Caution - 6 points	1
142368	Important - install pin	2
142008	Degelman - 6 x 25 3/4	2
143162	Manual Holder Decal	1

Auto-fold arm

142439	Important - back-up evenly	2
142280	Reflector - red 6 1/4	2
142279	Reflector - amber 3 1/4	2

Harrow section frame

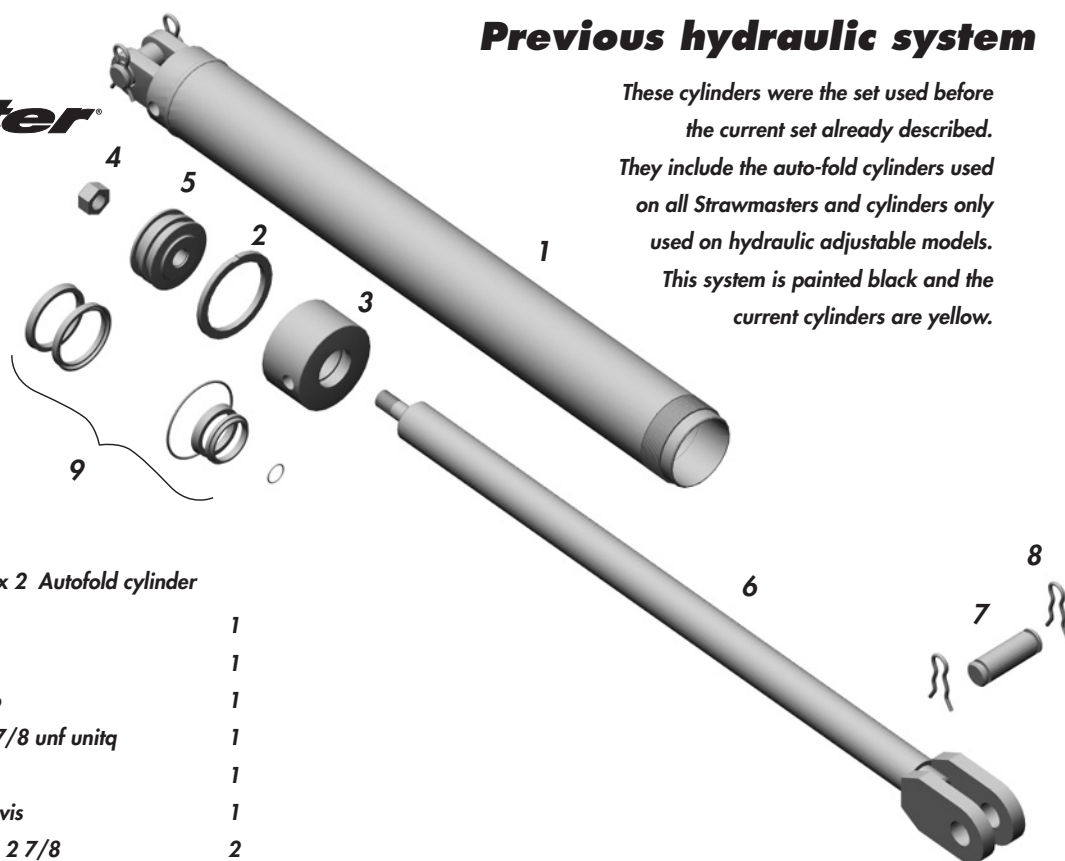
142010	Degelman - 2 3/4 x 12	1
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Previous hydraulic system

These cylinders were the set used before the current set already described.

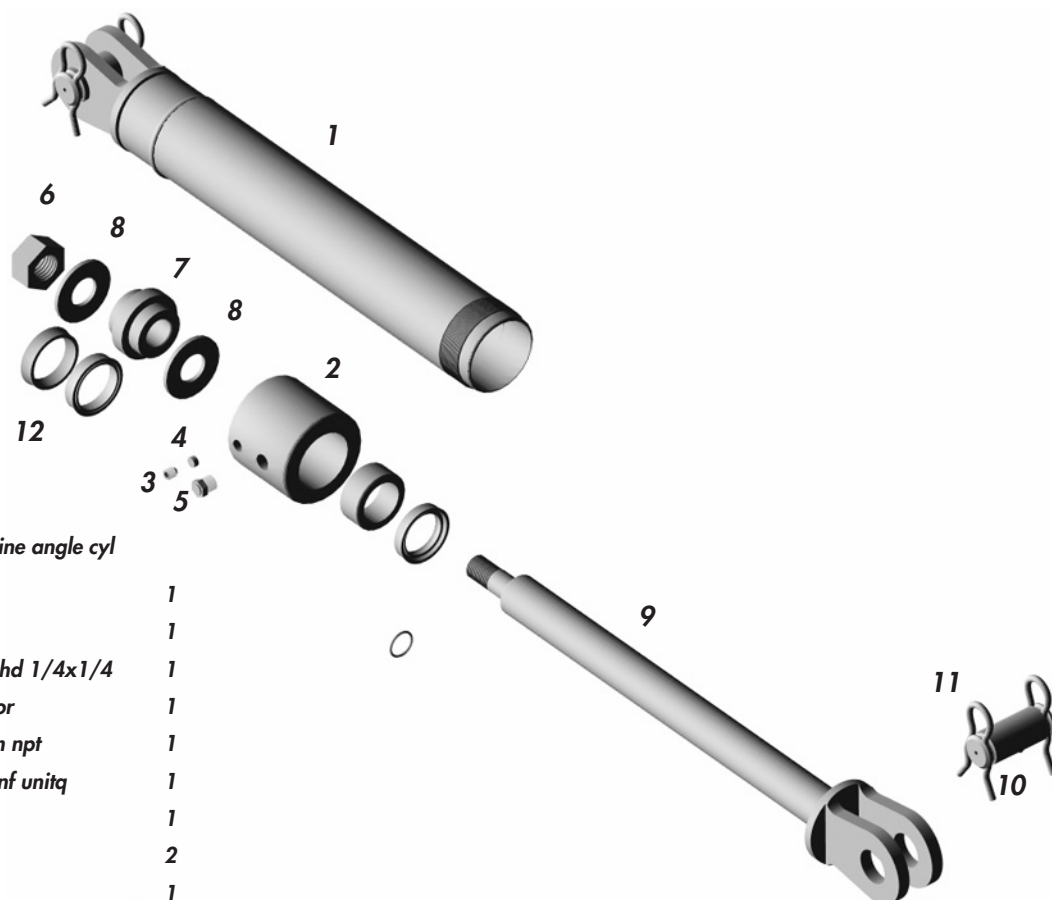
They include the auto-fold cylinders used on all Strawmasters and cylinders only used on hydraulic adjustable models.

This system is painted black and the current cylinders are yellow.



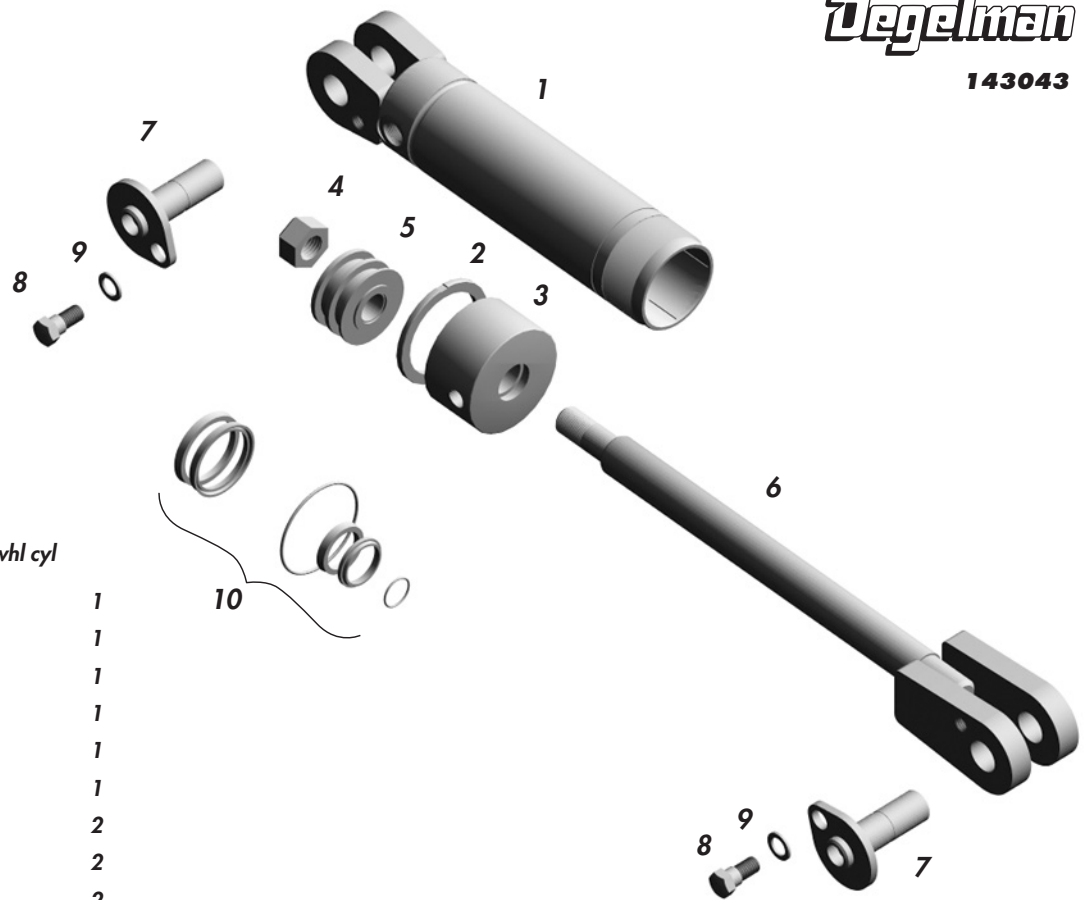
121387, 3 1/2 x 31 x 2 Autofold cylinder

1	121389	Barrel	1
2	121748	Lock ring	1
3	121845	Open cap	1
4	118441	Lock nut 7/8 unf unitq	1
5	121684	Piston	1
6	121392	Rod & clevis	1
7	121986	Clevis pin 2 7/8	2
8	118882	Hair pin 2 3/4	2
9	121852	Seal kit	1



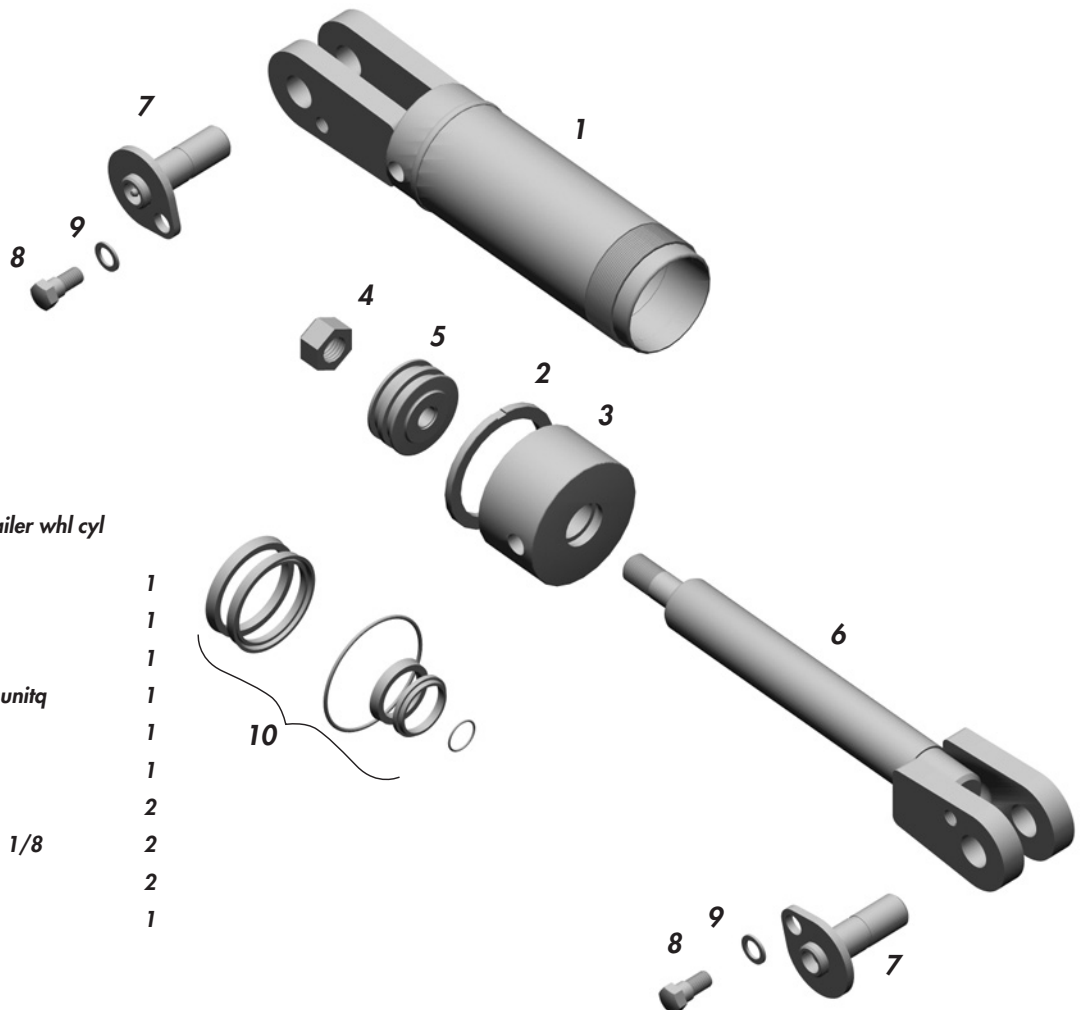
123120, 2 x 10 x 1 1/4 Tine angle cyl

1	123127	Barrel	1
2	123125	End cap	1
3	118254	Setscrew allen hd 1/4x1/4	1
4	121089	Thread protector	1
5	123131	Breather 1/4 m npt	1
6	118441	Lock nut 7/8 unf unitq	1
7	106011	Piston	1
8	106006	Follower plate	2
9	123122	Rod & clevis	1
10	121958	Clevis pin 1 3/4	2
11	118882	Hair pin 2 3/4	4
12	121529	Seal kit	1



123112, 2 1/2 x 8 x 1 1/4 End whl cyl

1	123114	Barrel	1
2	121741	Lock ring	1
3	121669	Open cap	1
4	118441	Lock nut 7/8 unf unitq	1
5	121664	Piston	1
6	122086	Rod & clevis	1
7	118930	Clevis pin	2
8	118796	Shld bolt 1/2 x 1 1/8	2
9	118924	Flat washer .591	2
10	121675	Seal kit	1



123100, 3 x 8 x 1 5/8 Trailer whl cyl

1	123102	Barrel	1
2	121746	Lock ring	1
3	123108	Open cap	1
4	118441	Lock nut 7/8 unf unitq	1
5	121606	Piston	1
6	122084	Rod & clevis	1
7	118930	Clevis pin	2
8	118796	Shld bolt 1/2 x 1 1/8	2
9	118924	Flat washer .591	2
10	122104	Seal kit	1

<i>Problem</i>	<i>Potential cause</i>	<i>Remedy</i>
<i>Hydraulics creep down during operation</i>	<i>Tractor hydraulic leak</i>	<i>To check raise sections half way, then disconnect from tractor hyd. Observe if sections creep down</i>
	<i>Damaged hose or loose fitting</i>	<i>Look for leaks</i>
	<i>Hydraulic cylinder leak</i>	<i>Replace seals or damaged parts</i>
<i>Harrow sections raise too slowly</i>	<i>Hyd. pressure from tractor too low</i>	<i>Check pressure, should be 2500 psi</i>
	<i>Restriction in hose</i>	<i>Disconnect & blow out lines with compressed air</i>
	<i>External hyd. leak</i>	<i>Repair</i>
<i>Oil build-up on cylinder shaft</i>	<i>Oil getting through seal</i>	<i>A little is good, a lot is bad; replace seal</i>
<i>Auto-fold latch will not close for field position</i>	<i>Latch holder has slid back on trailer frame</i>	<i>With machine in field position and sections raised up adjust latch holder in slotted bolt holes to meet the swing arm pipe</i>
<i>Auto-fold latch will not open for transport position</i>	<i>Cable slack or broken</i>	<i>Tighten or replace</i>
<i>Machine won't unfold fast enough</i>	<i>Transport wheel might be in transport position</i>	<i>Switch transport wheel over to field position by rotating the bent spindle until the wheel is leaning out</i>
<i>Auto-fold unlatches prematurely</i>	<i>The latch is too loose on the swing arm pipe</i>	<i>Latch holder has moved forward on the trailer frame. Move it back</i>

Auto-fold latch adjustment

After awhile the cable will stretch and the latch won't open to free the swing arm.

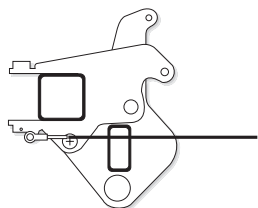
To adjust, have the wings out but the harrow sections vertical (not dropped down yet). With the swing arm pipe in the latch and the latch open just enough for the swing arm to clear adjust the nut on the eyebolt. That is the correct amount of tension for the cable.

Auto-fold procedure: transport to field

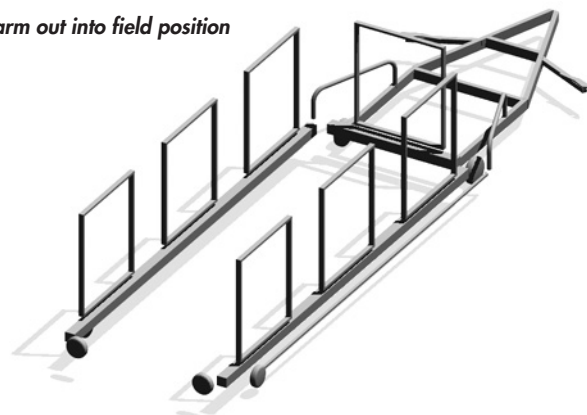
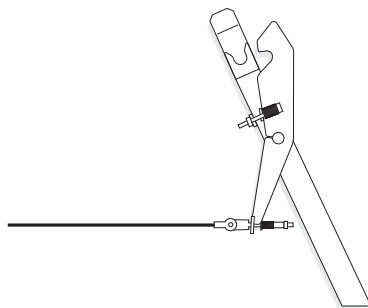
Degelman

143043

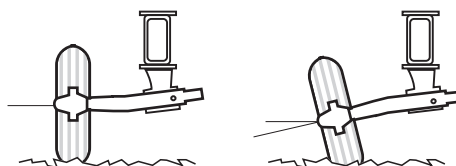
- A** Remove transport pin & place in holder
Move the 30 & 50 ft model's truss arm out into field position



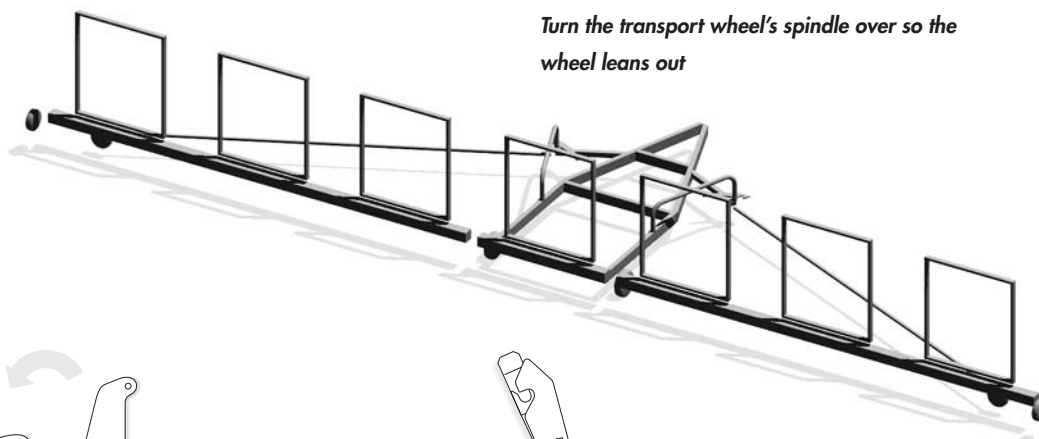
Cable taught,
latch open



B

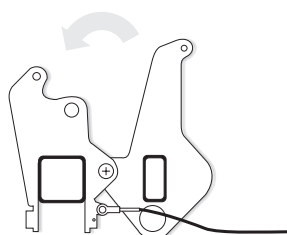


Turn the transport wheel's spindle over so the
wheel leans out

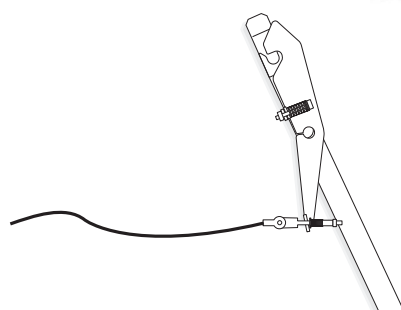


C

Back-up slowly.
The wings will open
up. Ensure there is lots
of room behind and to
the sides. Back-up
evenly so you don't
damage the transport
wheels



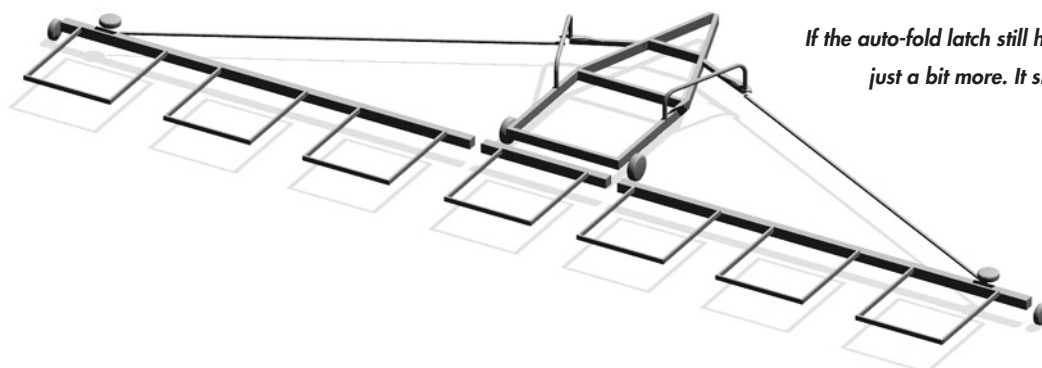
Cable slack
latch closed



Lower the harrow sections by extending the
auto-fold cylinders. The auto-fold latch will
close on the swing arm pipe

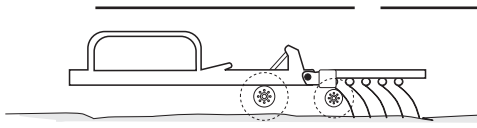
D

If the auto-fold latch still hasn't closed back up
just a bit more. It should then snap shut



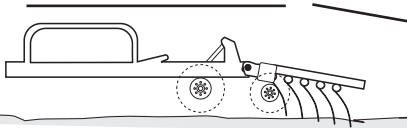
Operations- field settings

If trailer height is set correctly it will be is even with harrows



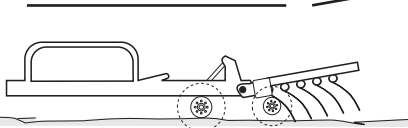
Front & back tines apply equal pressure

If trailer is too high...

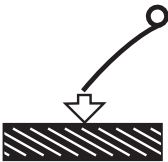
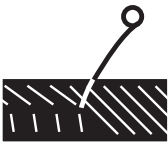
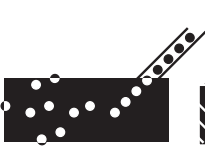


Front tines not applying pressure

If trailer is too low...



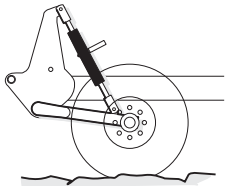
Front tines applying too much pressure



Chemical incorporation & raking

Breaking & spreading straw

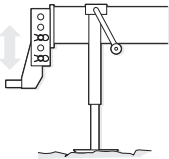
Field packing



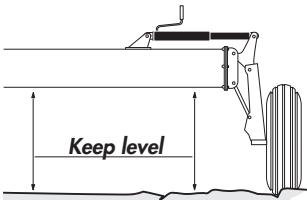
High

High

Low



Adjust clevis so that the trailer runs level



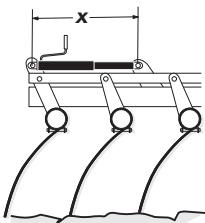
Keep level

High

High

Low

Measurement



31.0 - 28.0 inches

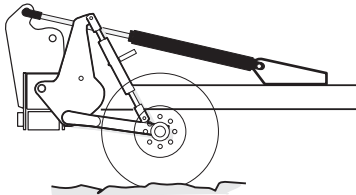
28.0 - 25.5

25.5 - 21.5

31.0 - 29.0

29.0 - 26.5

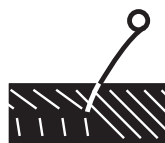
26.5 - 21.5



Down: extend auto-fold cyl

Down: extend auto-fold cyl
or
Float: hydraulics do no work

Down: extend auto-fold cyl
or
Float: hydraulics do no work



- Remember straw should be dry.
- If machine leaves clumps of straw, apply slight down pressure by extending hydraulic lift cylinders.
- Remember: actual settings will vary with tine wear.



Chemical incorporation

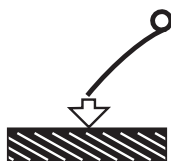
- Increasing downward pressure will help break the soil crust and place the granule in contact with moist soil.

- Avoid straw build up in the first two rows of tines. This makes for a more even granule or seed broadcast.



IMPORTANT: Always follow label directions for chemical herbicides.

- Valmar Airflow[®] offers all the necessary hardware required to neatly install their applicator on the Strawmaster 7000[®]. The Valmar Airflow Model 3255 can be used with both 50' and 70' Strawmasters. The Model 2055 can be used on the 30' and 50' Strawmasters.



Field packing

- To avoid deep ridges in your field, reduce down pressure and operate at lower speeds; 5-6 mph.
- If packing is done after seeding, make sure to check that seed is not being disturbed.
- To prevent tine damage, avoid tight turning.

Breaking & spreading straw

- For best results operate at 10 - 12 mph
- The straw built up in the harrow sections helps to achieve maximum rub action to break down straw.

TOUGH STRAW

- Advance the tine angle to a more aggressive setting (3-4 cranks of the harrow section jacks). This will hold straw for a longer period of time, allowing for a more even distribution of residue.



Raking

MACHINE PREPARATION

- Remove auto-fold cable pins on the 8"x 8" beam side. Loop the unfastened end of each cable around the cart frame and clip together (or remove auto-fold cable completely). By simply removing one bolt on each axle, remove both transport wheel assemblies.

THE FIELD

- Work the field at 45 degrees to the seeding line.
- In order to rake flax straw some down pressure is required.
- Before built-up straw starts to spill out the back of the machine dump straw load by lifting harrow

Horsepower requirements

Strawmaster 7000	Minimum	Ideal
30 ft	125 hp	150 hp
50	150	200
70	200	300

Horsepower requirements will vary depending on operation speed, the amount of down pressure applied and the task at hand.

Maintenance

TINE REPLACEMENT

- Replace tines if they are 16" or less. Try to avoid replacing one tine at a time.
- When replacing tines do one pipe at a time or label the pipes so you don't get mixed-up.

HOOK UP

- Use a drawbar pin with a mechanical retainer and a safety chain.
- Match pressure and return line to one valve bank.
- Store jack horizontally for field use.

HITCH & TRAILER HEIGHT

- As the tines wear down you'll need to lower the trailer height. It always has to be level.

STORING

- Oil exposed piston rods on hydraulics.
- Touch up paint nicks.

START UP & ONGOING

- Grease all fittings.
- Check all bolt tightness.
- Retorque bolts.
- Repeat after a days use and check for hydraulic leaks.
- Adjust hitch height; Set trailer so it is parallel to ground.
- Tine length wear.
- Check tire pressure.
- Oil level in tractor's hydraulic reservoir.
- Inspect lines, hoses, fitting & couplers. Wipe couplers with clean cloth.

**All hardware;
Hex head, Plated ,
Gr.5 UNC (imperial)
or P10.9 (metric)**

**Hoses;
3/8, ends 3/4 JIC
female swivel**

Unless stated otherwise

Metric thread specs

M	Thread pitch
14	2
16	2
20	2.5
22	2.5
24	3
27	3
30	3.5

TORQUE



all hardware

Hyd. fitting Size

3/4	75 ft lb
7/8	90

TORQUE SETTINGS

Imperial Size	Grade	
	5	8
1/4	9	12 ft lb
5/16	18	25
3/8	30	45
7/16	50	70
1/2	75	110
9/16	10	155
5/8	155	215
3/4	270	385
7/8	435	620
1	660	930

Metric Size	SAE	
	8.8	10.9
3	0.4	1.3 ft lb
4	2.2	3.3
5	4	7
6	7	11
8	18	26
10	37	52
12	66	92
15	66	228
20	321	450
24	553	774



Recommended tire pressure
25 psi - 16.5L
45 psi - 9.5L

Lubrication

CHECK REGULARLY AFTER

8 hours

- Hyd. fluid leaks
- Damaged hoses
- Tire pressure

25 hours

- Working points & pins
- Safety signs clean
- Tire wear

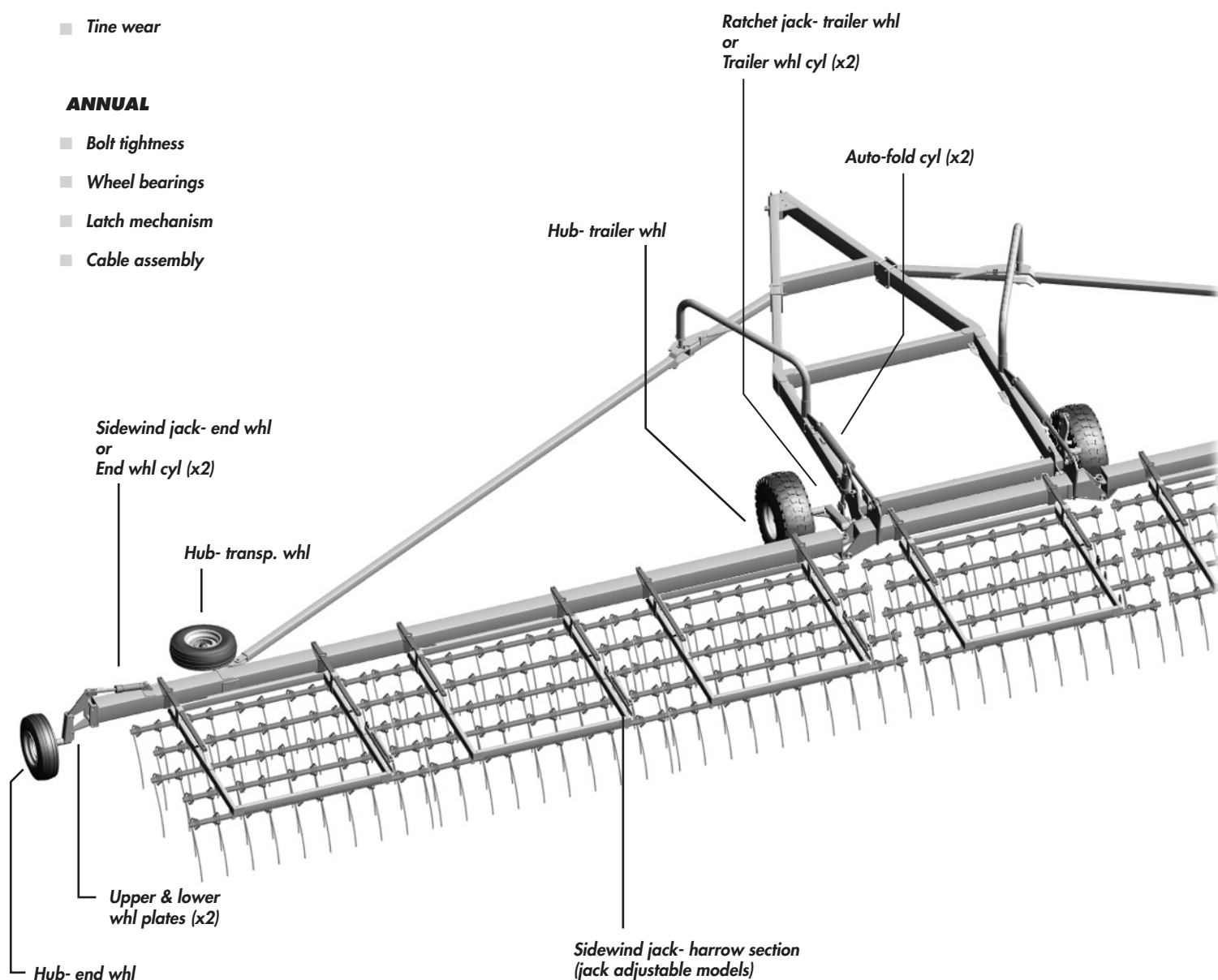
ANNUAL

- Bolt tightness
- Wheel bearings
- Latch mechanism
- Cable assembly



Grease fitting 118336

Lube both sides





**KILLED,
INJURED or
SAFE?**

**your
choice**

You are responsible for your own safety. If you don't know basic agriculture & industrial safety, find out.

Owners of equipment must by law give operating instructions to other operators such as family members or a hired hand.

Making any design changes to equipment could cause a hazard and damage your machine.

Wear proper safety equipment. Have handy first aid kit & fire extinguisher.

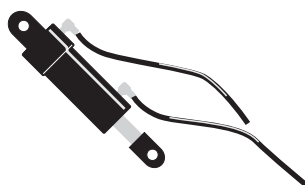
Before working on machine:

- ✓ Turn tractor off
- ✓ Set controls in neutral
- ✓ Remove ignition key
- ✓ Clean all reflectors and lights.

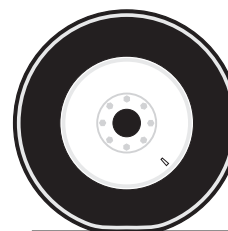
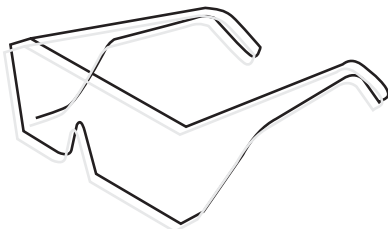


HYDRAULIC

- ✓ Keep all parts clean
- ✓ Replace worn or damaged parts
- ✓ Don't try any makeshift repairs
- ✓ Before operating check that everything is tight and not broken

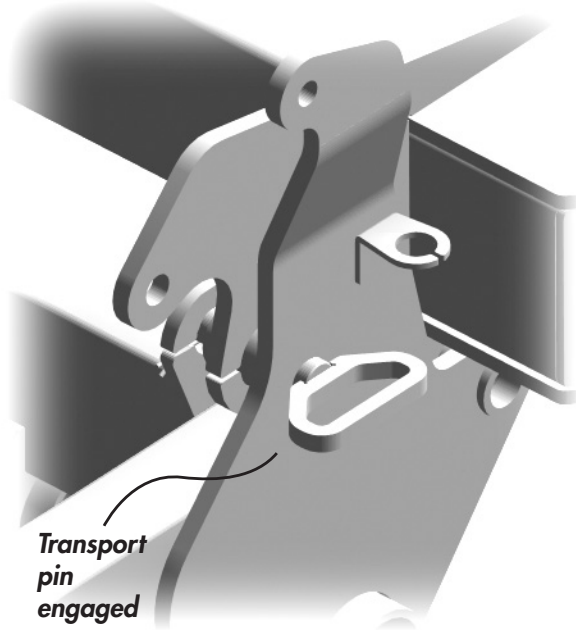


Wear gloves and eye protection when searching for leaks. Use a piece of wood or cardboard but not your hand. High pressure oil will penetrate your skin. If that happens you risk serious injury.

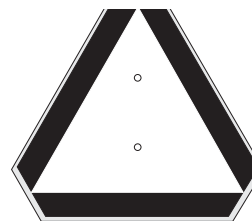


TRANSPORT

- ✓ Use Safety Lights
- ✓ For 30 & 50 ft models make sure Truss Beams are in transport position
- ✓ When in transport position make sure transport pin is in place
- ✓ Clean SMV sign and reflectors
- ✓ Use safety chain



Transport pin engaged





WARRANTY

Degelman Industries warrants this product to the original owner for a period of one (1) year parts and labour and two (2) years parts from the date of purchase. All matters related to the warranty of our products must be handled through the authorised selling dealer.

Warranty does not cover normal wear of the machine components or damages caused by lack of maintenance or misuse, and is subject to the following provisions.

REPLACEMENT PARTS:

Will be warranted for a period of ninety (90) days.

WARRANTY ON MACHINES USED FOR CUSTOM WORK, RENTALS OR INDUSTRIAL USE:

Will be warranted as stated above, with the exception that it will be for a period of ninety (90) days only.

TIRES:

Will be adjusted for warranty by tire manufacturer.

LABOUR:

Any labour subject to warranty must be authorised by a Degelman representative before work is started. Warranty labour allowance and rates will be handled according to established warranty service policy.

GOVERNMENT LEGISLATION:

Warranty terms and conditions are subject to Provincial or State legislation.

MODIFICATIONS:

Warranty will be void if any component is altered or modified, unless written authorisation is granted by Degelman Industries Limited.

WARRANTY ON ATTACHED EQUIPMENT:

No responsibility will be assumed for whatever damages may occur to persons, tractors or property.