

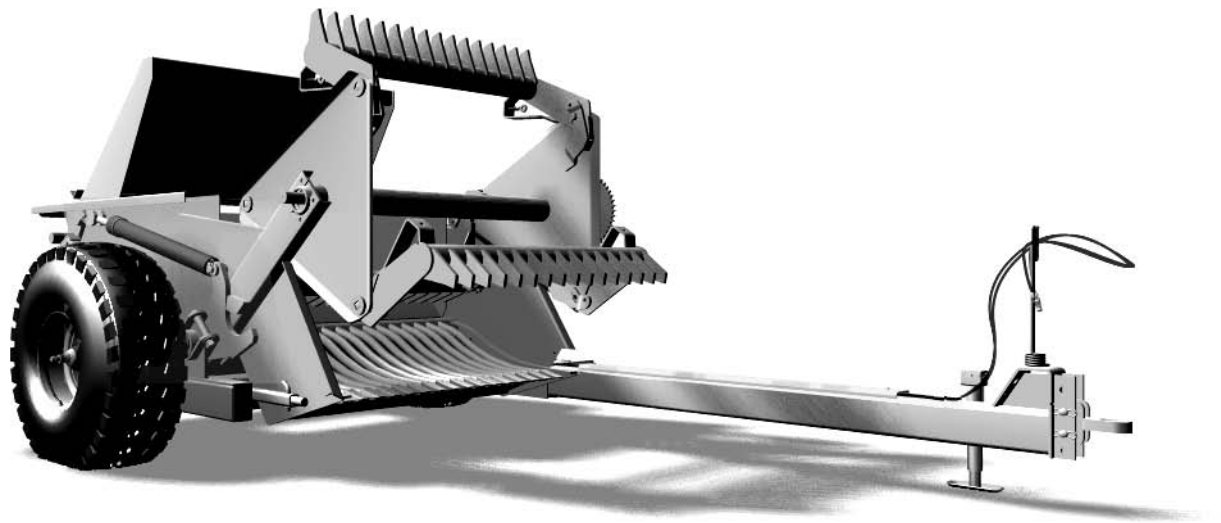
Degelman

signature[®]

6000

7200

W. J. Degelman



MANUAL

142584

Degelman

signature[®]

6000

7200

W. J. Degelman

Base unit	1
Grill	5
Reel	7
Rockguard	11
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**272 Industrial Drive, Box 830
Regina, Sask. Canada S4P 3B1
306 543-4447 543-2140 fx**

degelman@degelman.com

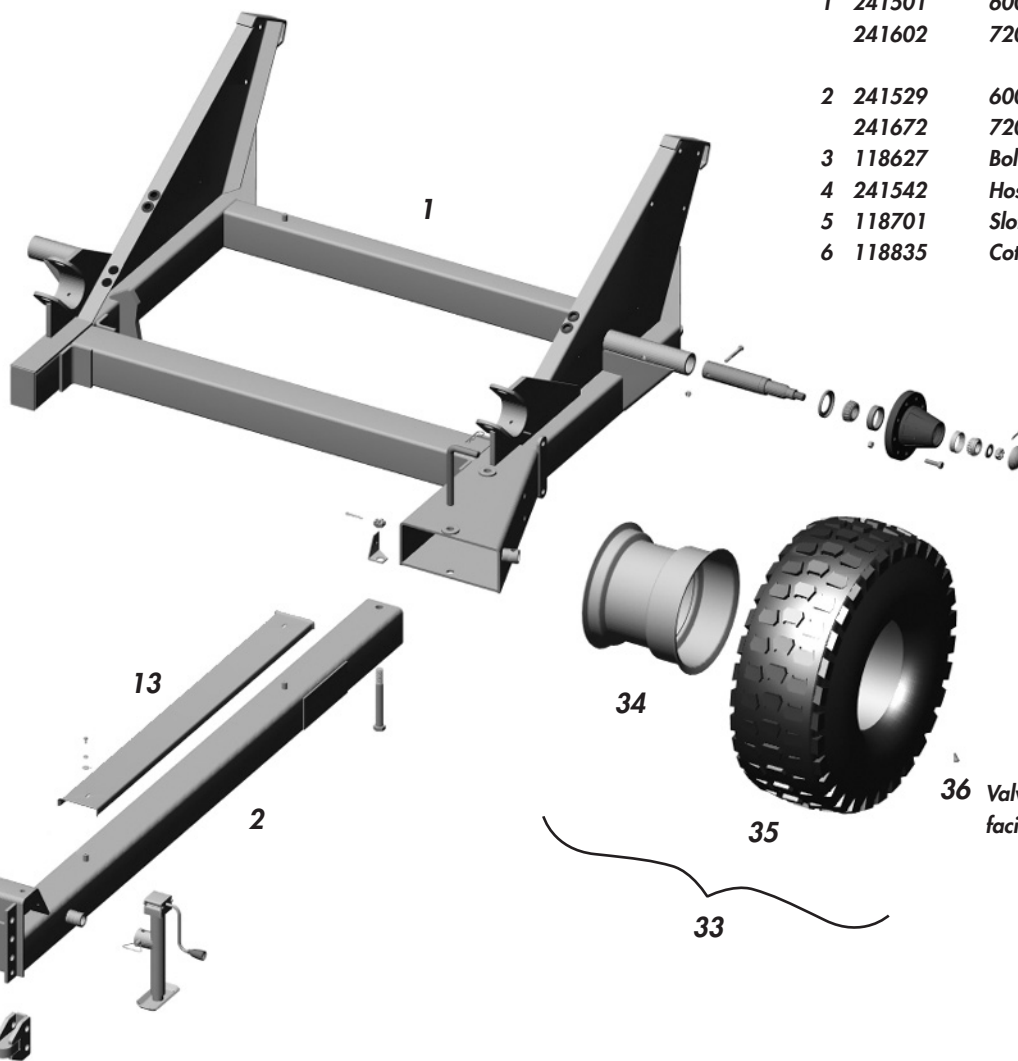
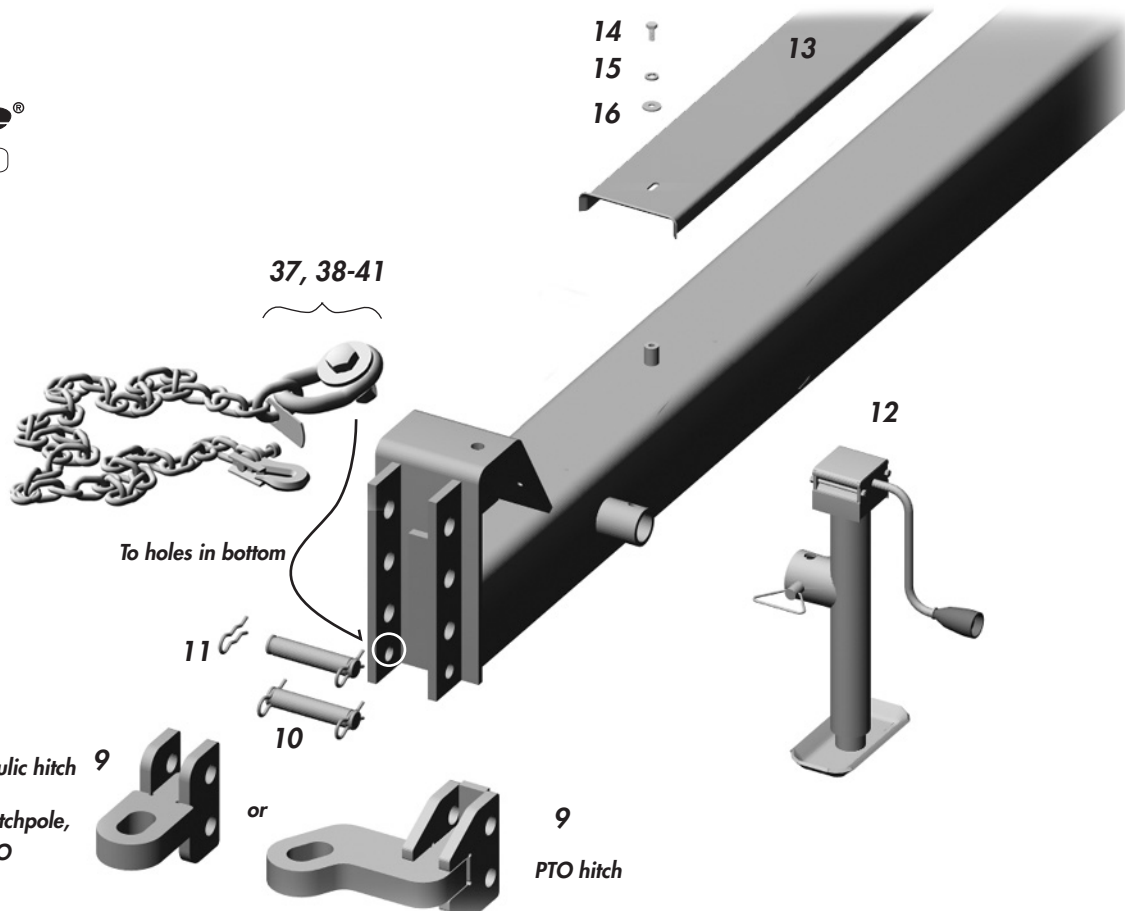
www.degelman.com



SAFETY

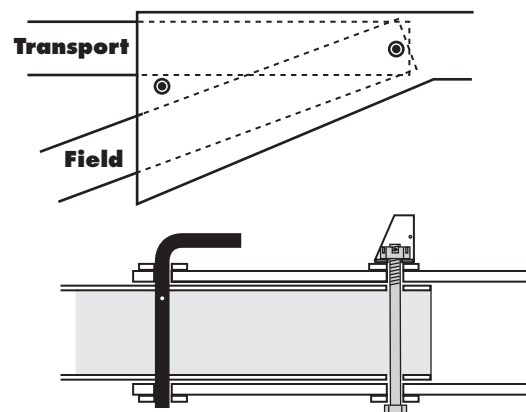
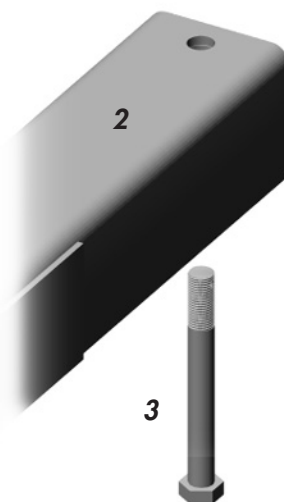
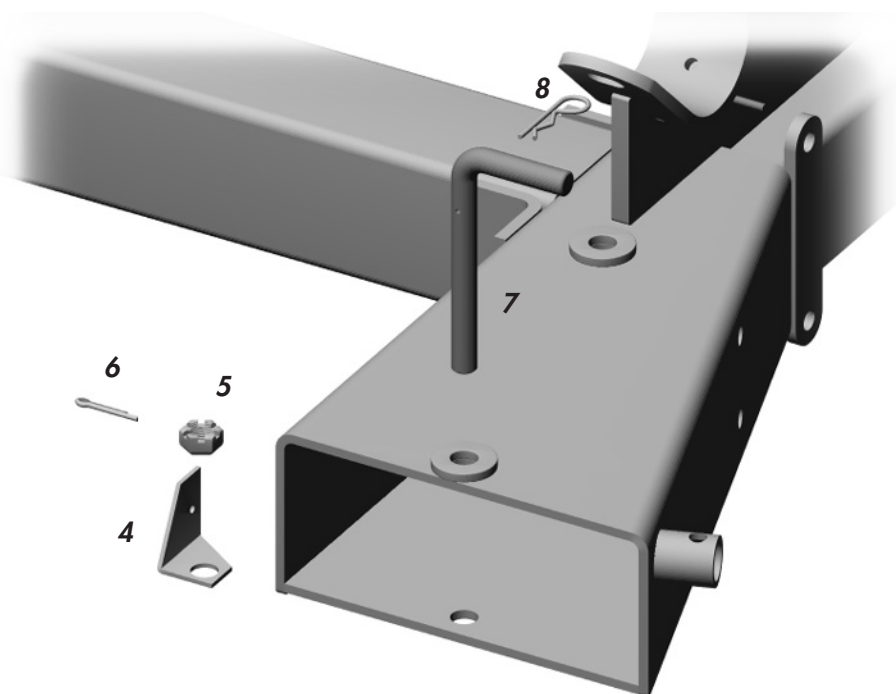
The safety instructions that follow pertain only to this specific equipment. You should be aware of agricultural & industrial safety especially related to heavy equipment. If you are not familiar with safety procedures then you should get training. Improper use will result in maiming or death.

**Frame hitchpole
 & wheel**

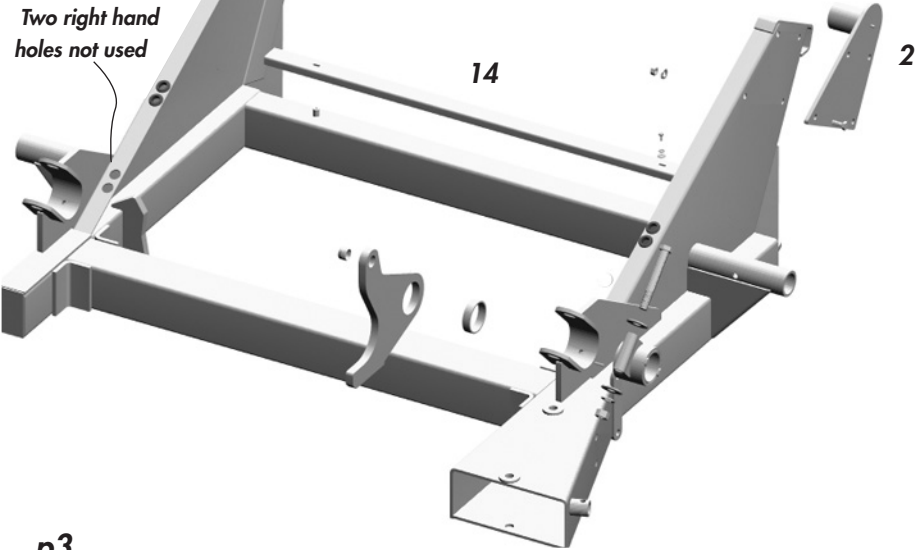
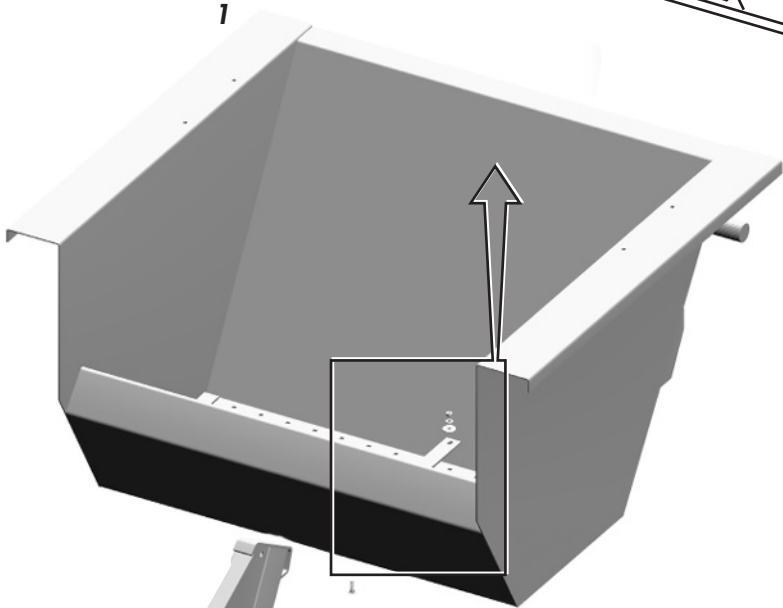
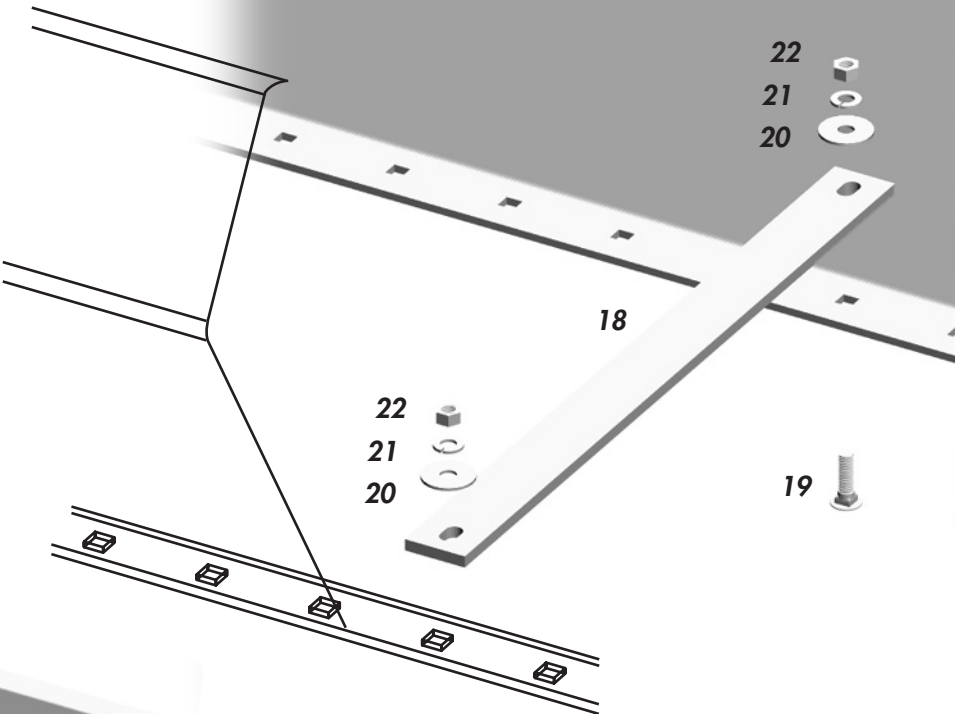


1	241501	6000 Frame	1
	241602	7200	1
2	241529	6000 Hitchpole	1
	241672	7200	1
3	118627	Bolt 1 x 9 drilled	1
4	241542	Hose clip bent	1
5	118701	Slotted nut 1	1
6	118835	Cotter pin 1 1/2	1

7	241670	Transport pin 8 3/4	1
8	118817	Hair pin 3 3/4	1
9	241533	Hitch hydraulic	1
	241218	Hitch PTO	1
10	121944	Pin 4 5/16	2
11	118882	Hair pin 2 3/4	4
12	132005	Sidewind jack	1
13	241631	Hose guard	1
14	118177	Bolt 5/16 x 3/4	2
15	118530	Lock washer 5/16	2
16	118538	Flat washer 5/16	2
17	240387	Hub spindle	2
	c/w...		
18	131093	Hub cap	2
	131706	Hub cap CTD	2
	19 118835	Cotter pin 3/16 x 1 1/2	1
20	118553	Flat washer 1 1/16	1
21	131294	Cone bearing 1.563	1
22	131094	Hub	1
	131705	Hub CTD	1
	c/w...		
23	131071	Bearing cup 3	1
24	131180	Bearing cup 3.672	1
25	131295	Cone bearing 2.063	2
26	131184	Dust seal	2
27	131306	Spindle	1
	c/w...		
28	118423	Slotted nut 1 uns	2
29	118914	Wheel bolt 9/16 x 1 3/4	16
30	118651	Jam nut 9/16 unf gr2	16
31	118126	Bolt 1/2 x 4	2
32	118420	Lock nut 1/2	2
33	131500	Wheel tire & rim	2
	c/w...		
34	131502	Rim	2
35	131501	Tire	2
36	127006	Valve	2
37	116244	Safety chain	1
	c/w....		
38	118048	Bolt 3/4 x 2 1/2	1
39	118635	Flat wahser 3/4 HRD	1
40	118509	Lock washer 3/4	1
41	118770	Nut 3/4	1



Base unit



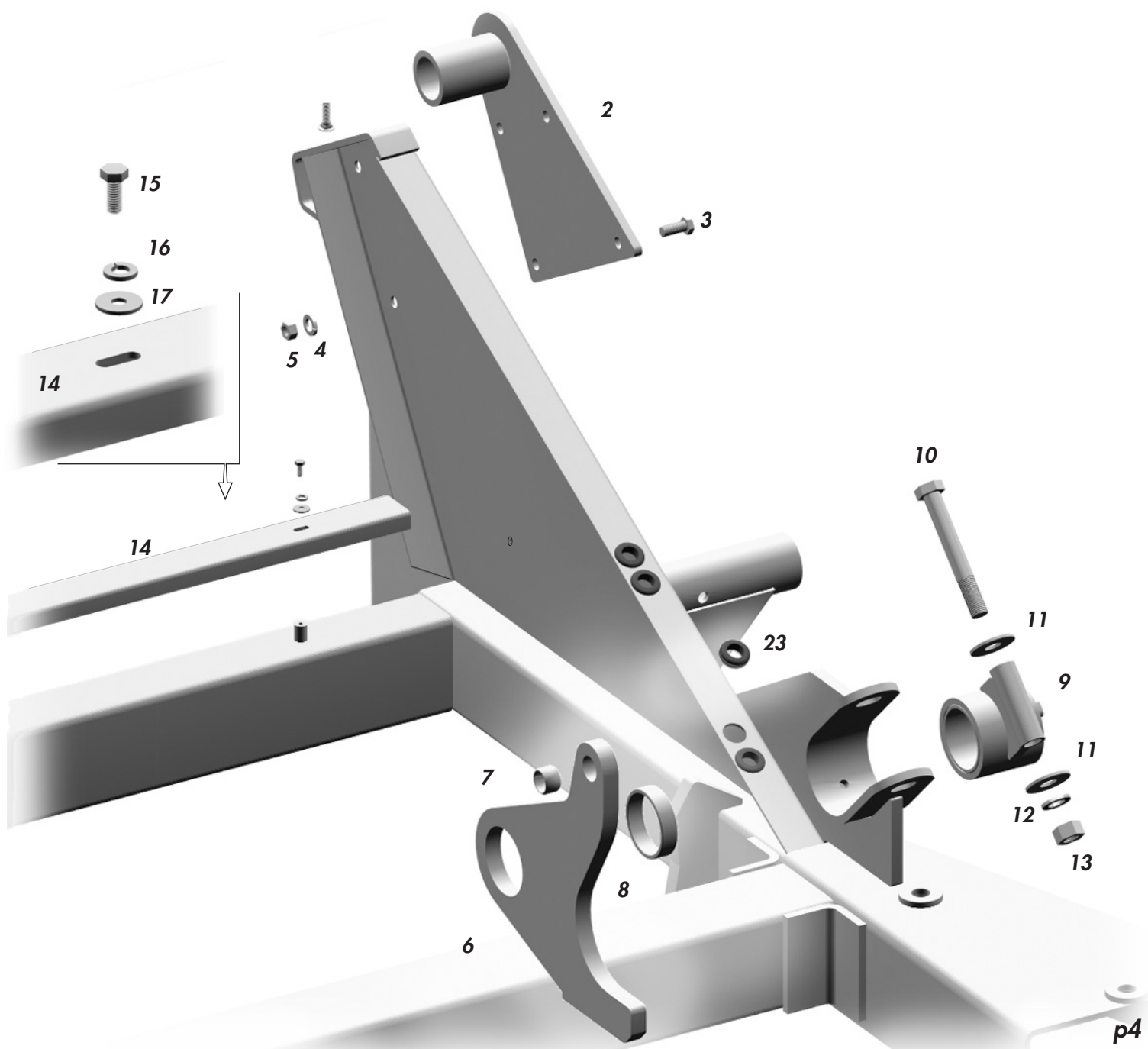
1	241081	6000 Hopper box	1
	241621	7200	1
2	241130	LH pivot plate	1
	241128	RH	1
3	118024	Bolt 5/8 x 1 1/2	8
4	118508	Lock washer 5/8	8
5	118407	Nut 5/8	8

6	241124	Flotation plate	2
	c/w...		
7	117111	Bushing 1 1/4 STL	1
8	117125	Bushing 3.53 Nyl	1

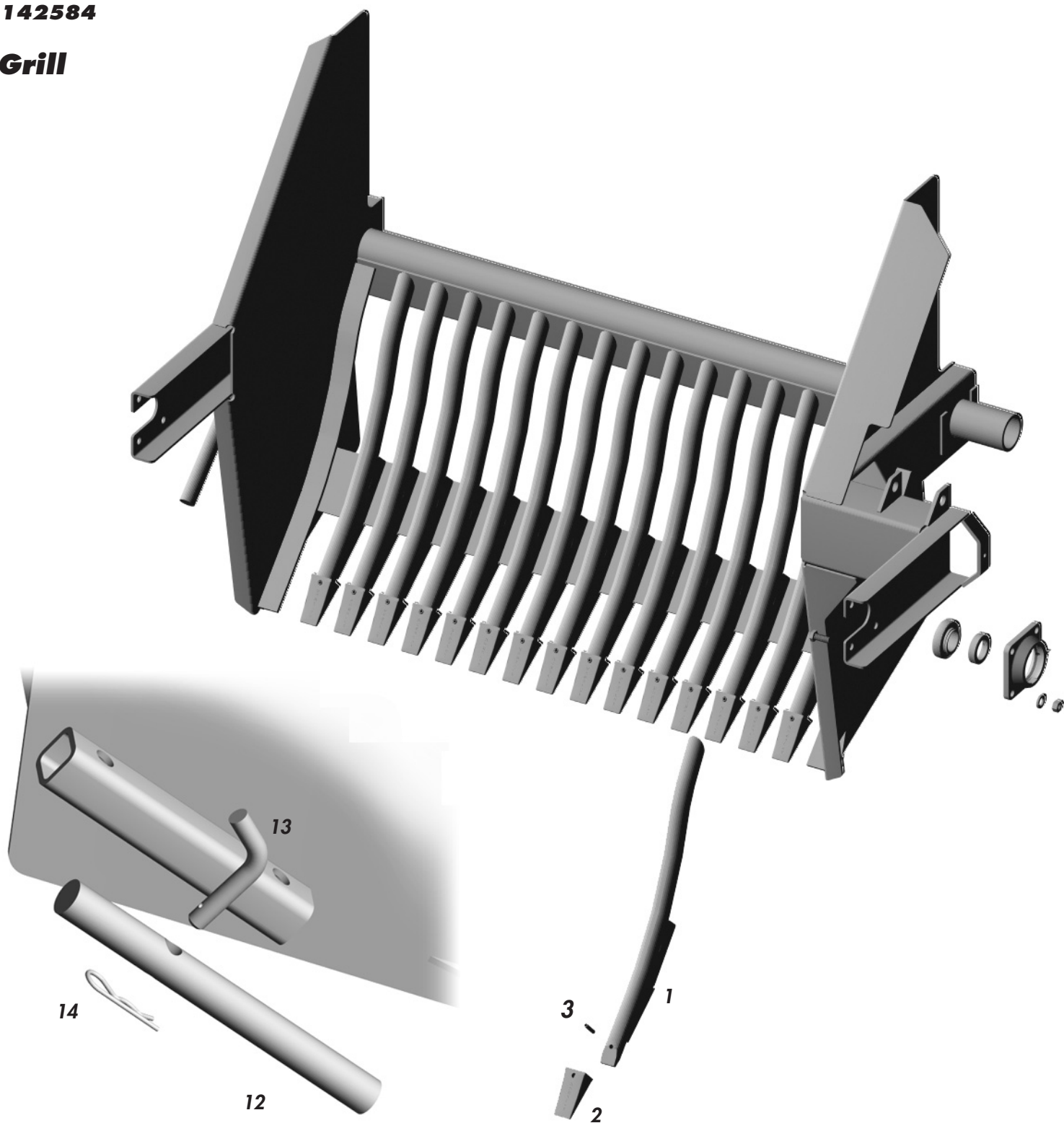
9	241524	Grill support	2
10	118624	Bolt 1 x 7 1/2	2
11	118520	Flat washer 1	4
12	118510	Lock washer 1	2
13	118412	Nut 1	2

14	241133	6000 Hose guard	1
	241630	7200 Hose guard	1
15	118177	Bolt 5/16 x 3/4	2
16	118530	Lock washer 5/16	2
17	118538	Flat washer 5/16	2

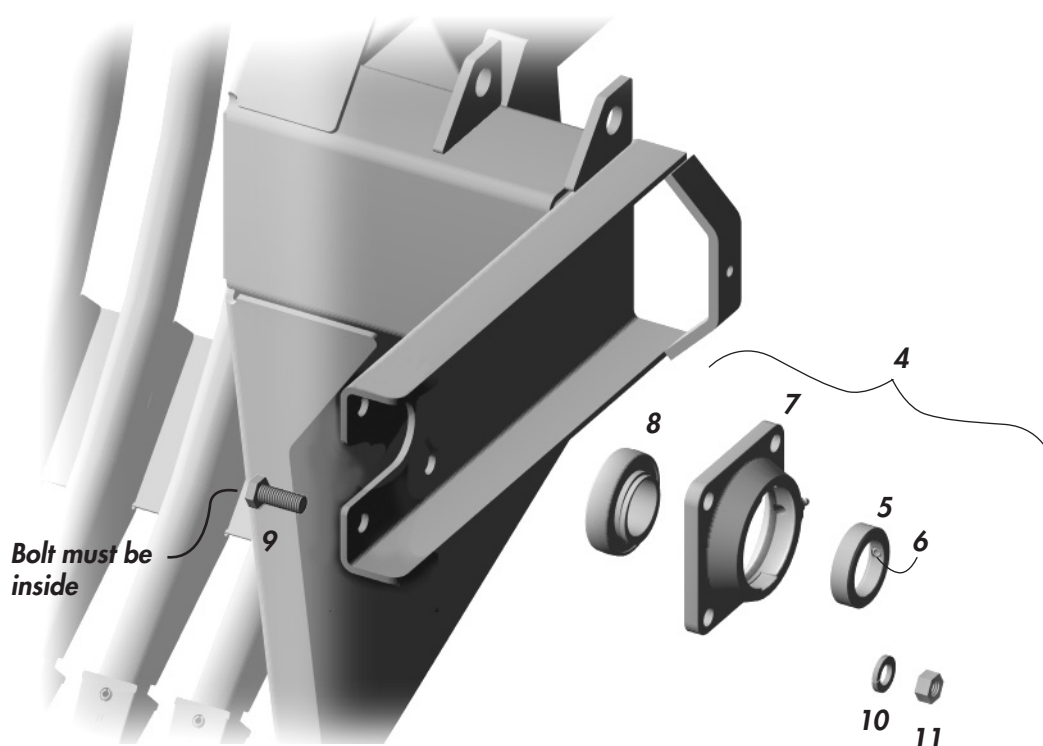
		Qty for 6000 & 7200	
18	241095	Strap	14 16
19	118218	Carriage bolt 1/2 x 1 1/2	28 32
20	118512	Flat washer 1/2	28 32
21	118504	Lock washer 1/2	28 32
22	118405	Nut 1/2	28 32
23	129052	Rubber grommet	6



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6000 7200
142584
Grill

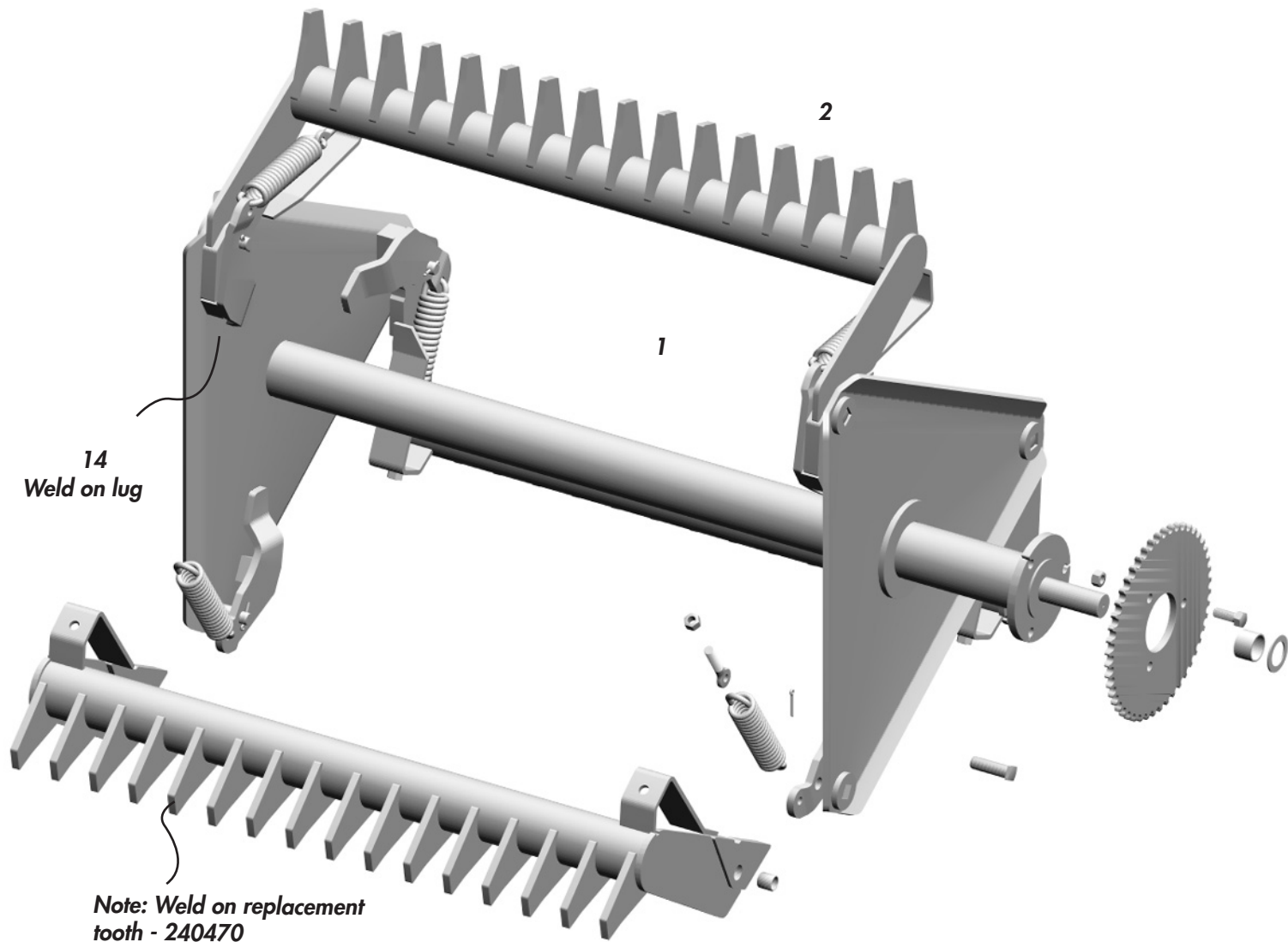


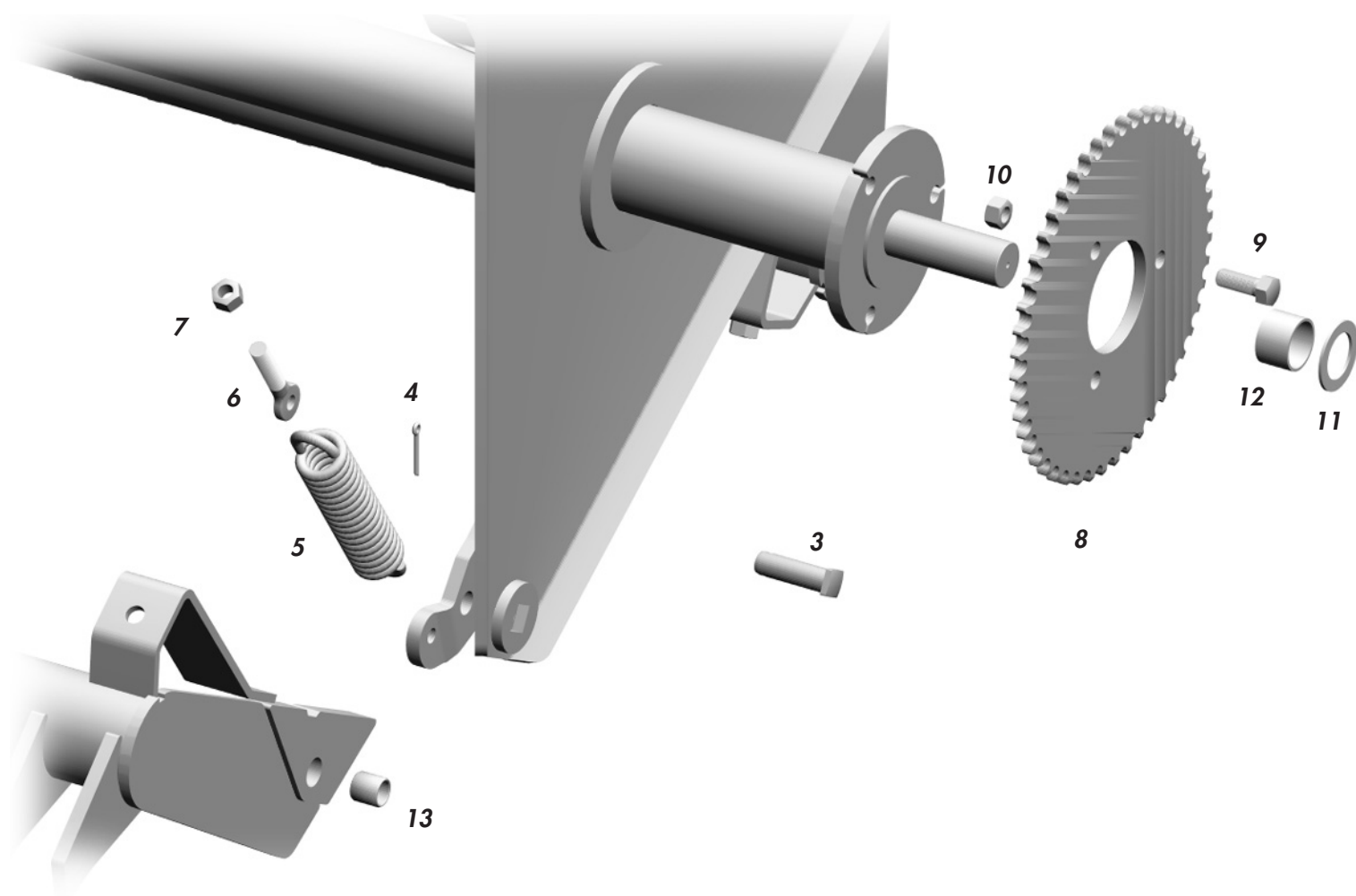
		Qty
241062	6000 Grill	
241611	7200	
		6000
1	241065 Tooth	15,19 —7200
2	240927 Cast tip	15,19
3	118857 Roll pin	15,19
4	117134 Bearing unit INA	2
or	117018 Bearing unit NTN	2
	c/w...	
5	117136 Locking collar INA	1
or	117016 Locking collar NTN	1
6	118358 Setscrew allen 3/8	1
7	117135 Flange casting INA	1
	117017 Flange casting NTN	1
8	117137 Insert bearing INA	1
	117015 Insert bearing NTN	1
9	118026 Bolt 5/8 x 2	8
10	118508 Lock washer 5/8	8
11	118407 Nut 5/8	8
12	240278 Transport lock shaft	1
13	240277 Lock shaft pin, red	1
14	118830 Hair pin 3 1/4	1



**Reel & paddle
6000**

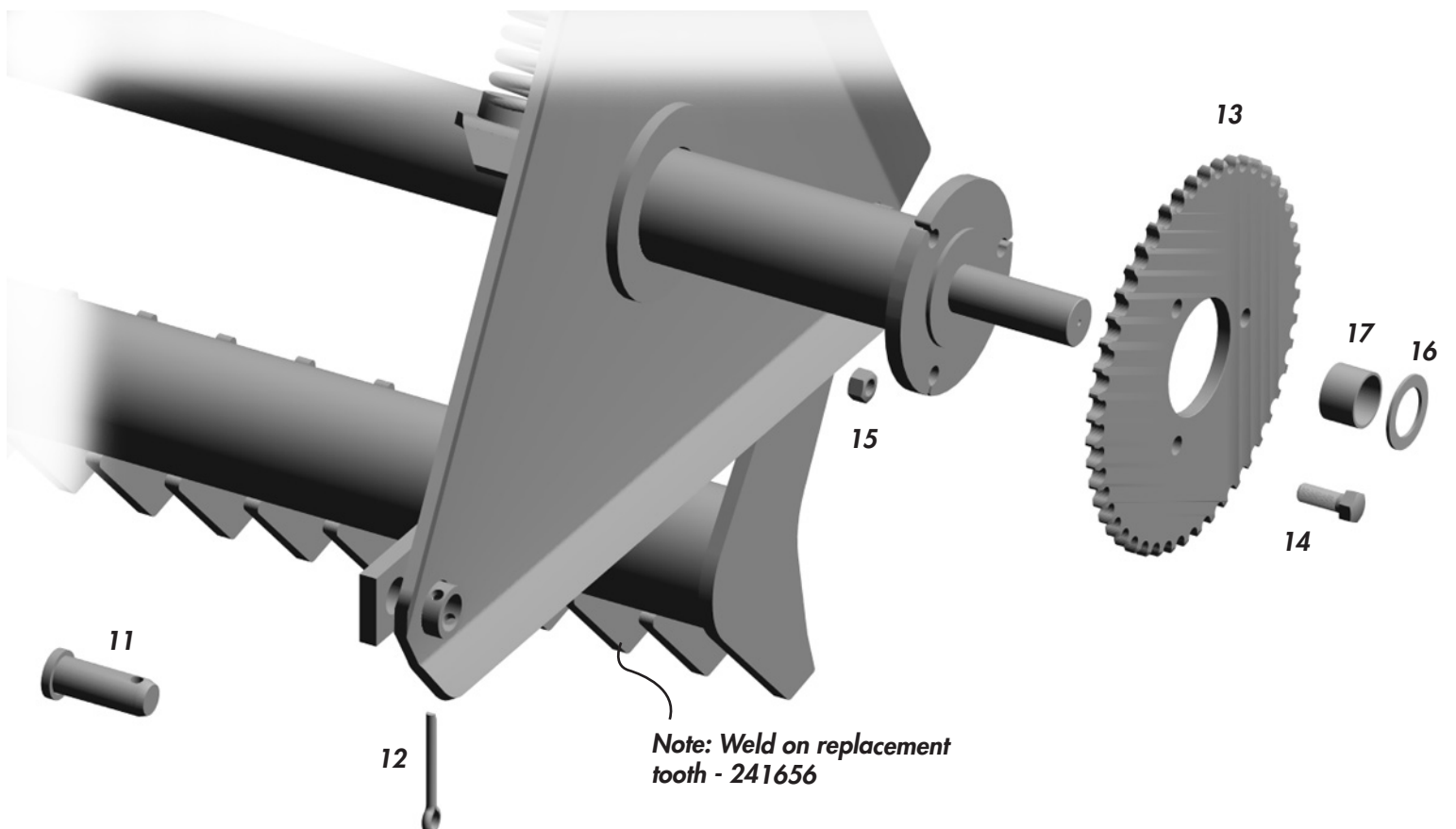
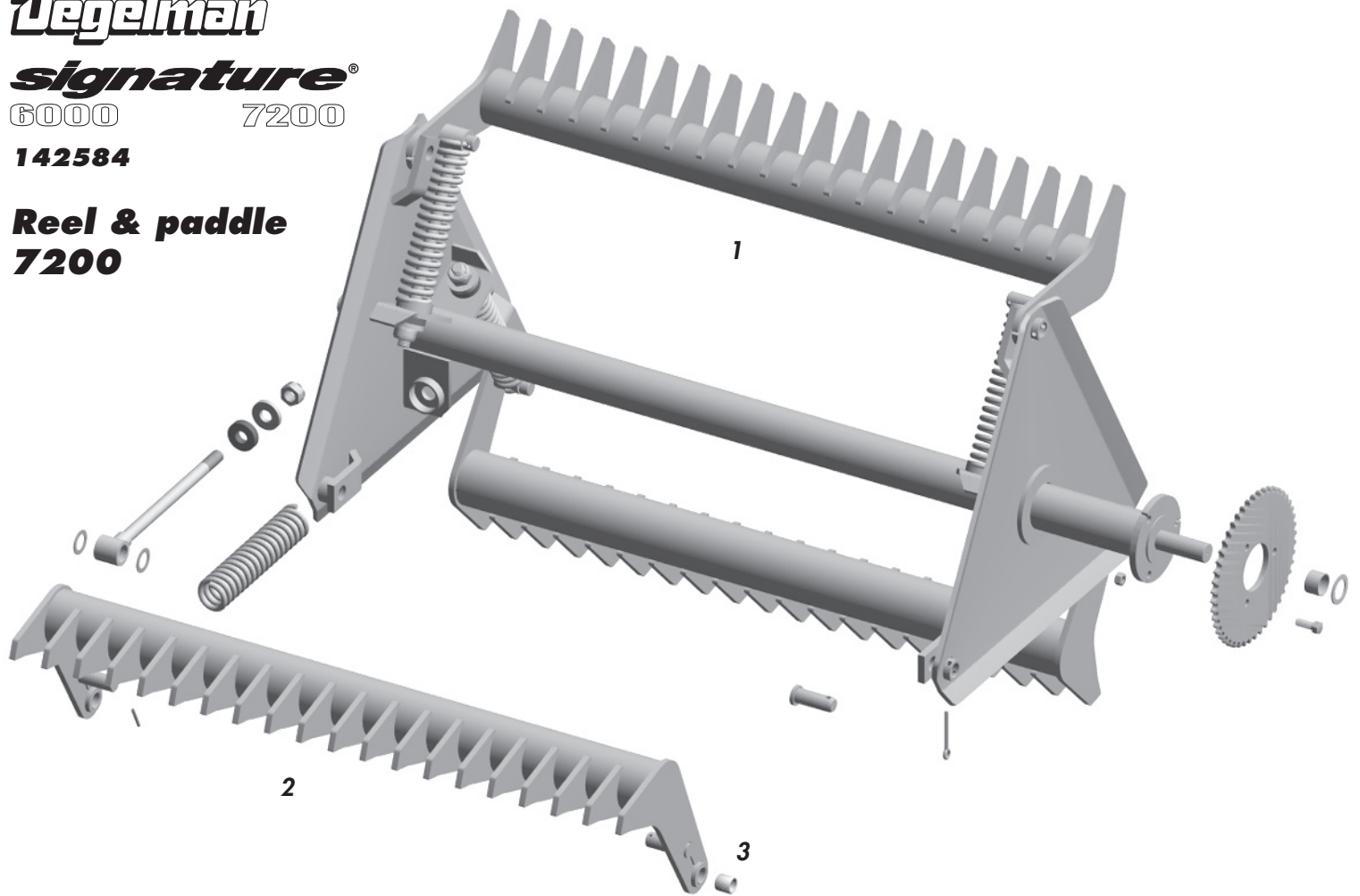
	241097	Reel & paddle 6000	
1	241099	Reel & shaft	1
2	241106	Paddle	3
3	118801	Square hd 1 x 2 3/4 EFF	6
4	118838	Cotter pin 1/4 x 1 1/2	6
5	143005	Spring	6
6	118241	Eyebolt 3/4 x 5 1/4	6
7	118422	Lock nut 3/4	6
8	122046	Sprocket #80	1
9	118269	Bolt 3/4 x 2 UNF Gr8	3
10	118466	Lock nut 3/4 UNF Gr8 unitq	3
11	118589	Machine bushing	ar
12	241202	Spacer bushing	2
13	117114	Stop plate bushing	6
14	209030	RH spring lug	1
	209040	LH	1





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**Reel & paddle
7200**

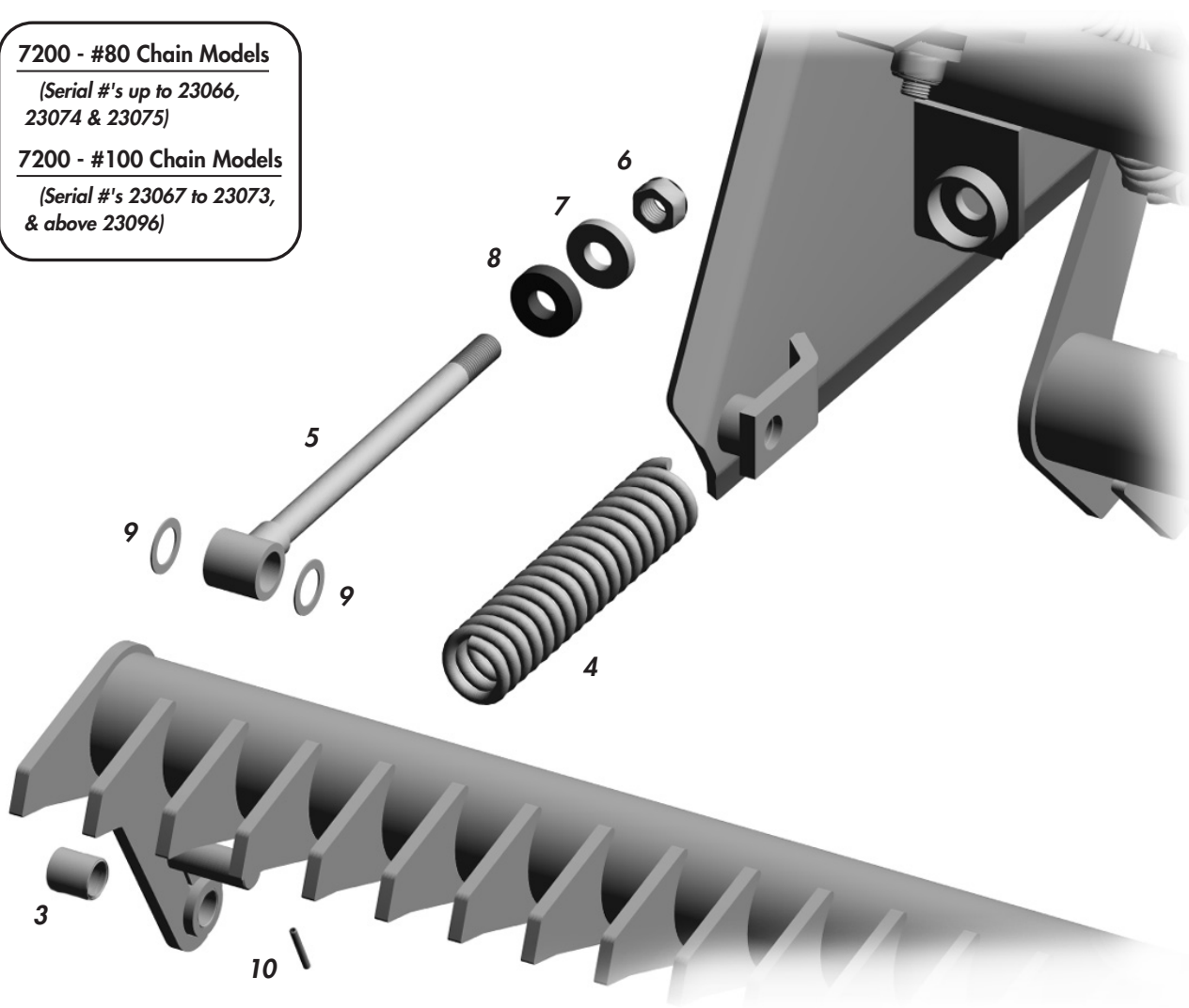


7200 - #80 Chain Models

(Serial #'s up to 23066,
23074 & 23075)

7200 - #100 Chain Models

(Serial #'s 23067 to 23073,
& above 23096)

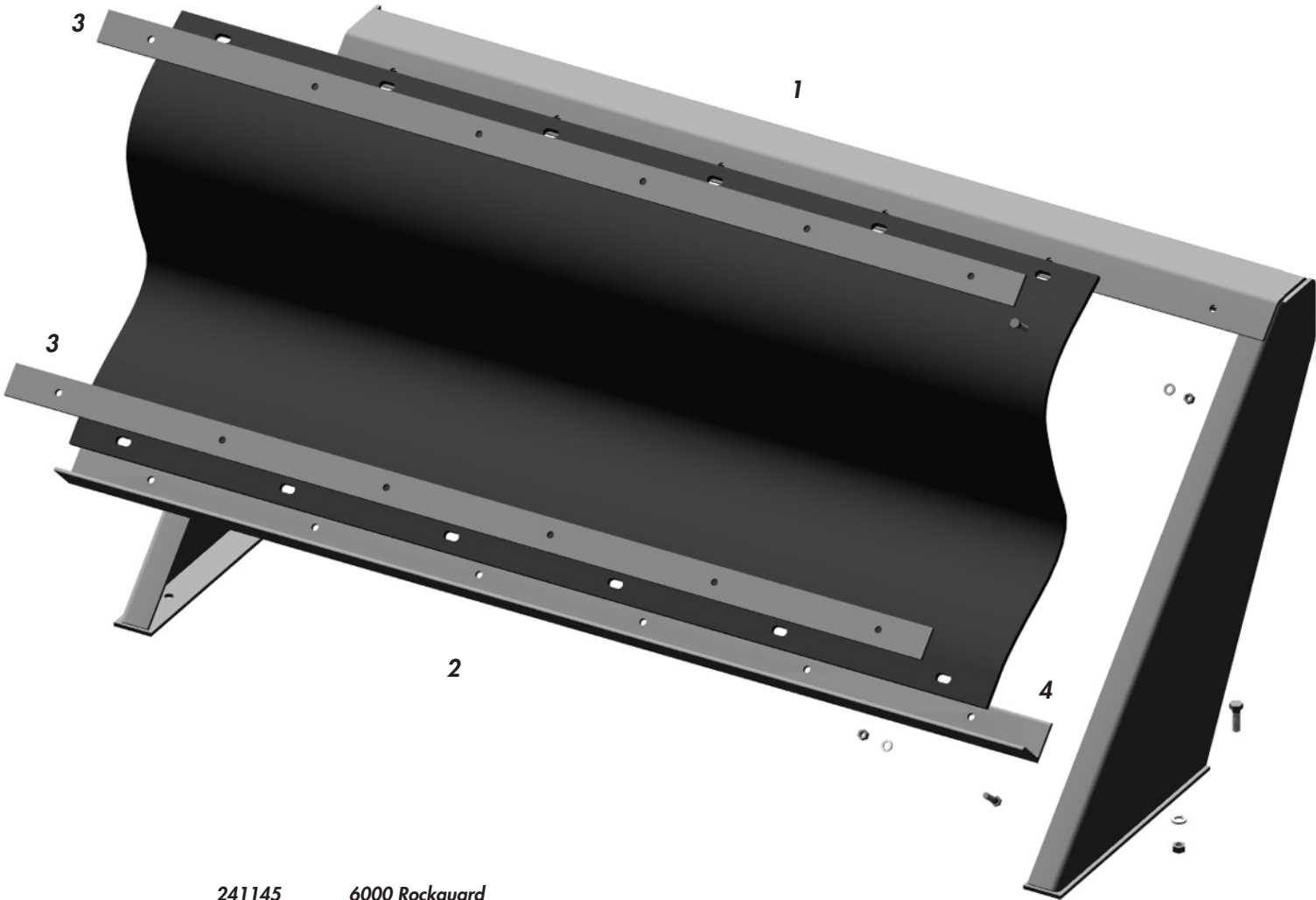


241634 Reel & paddle 7200 (#80 Chain Model)

241764 Reel & paddle 7200 (#100 Chain Model)

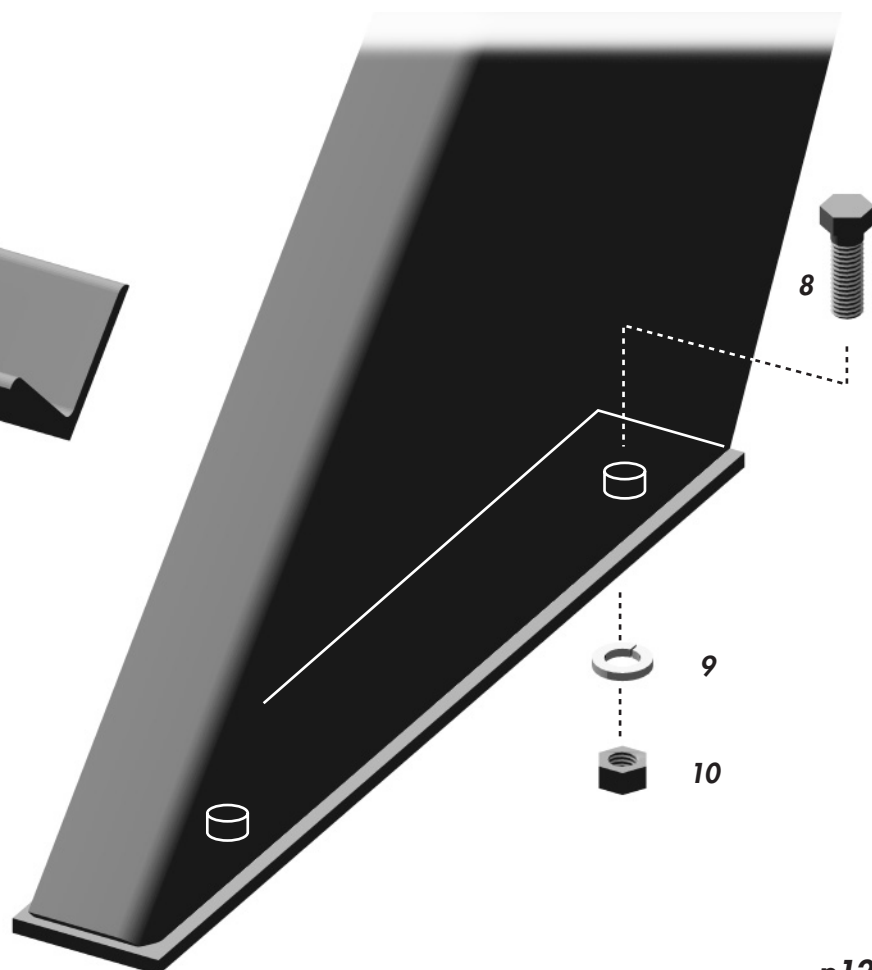
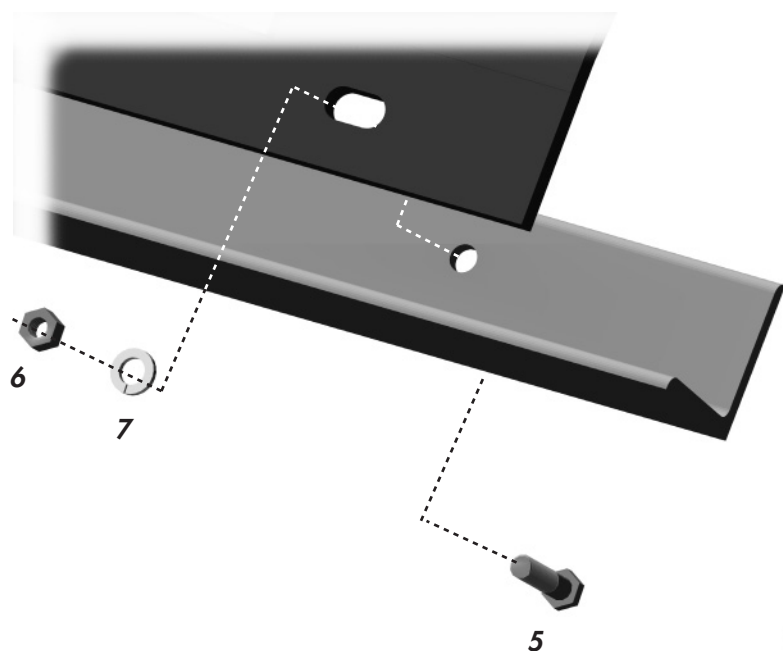
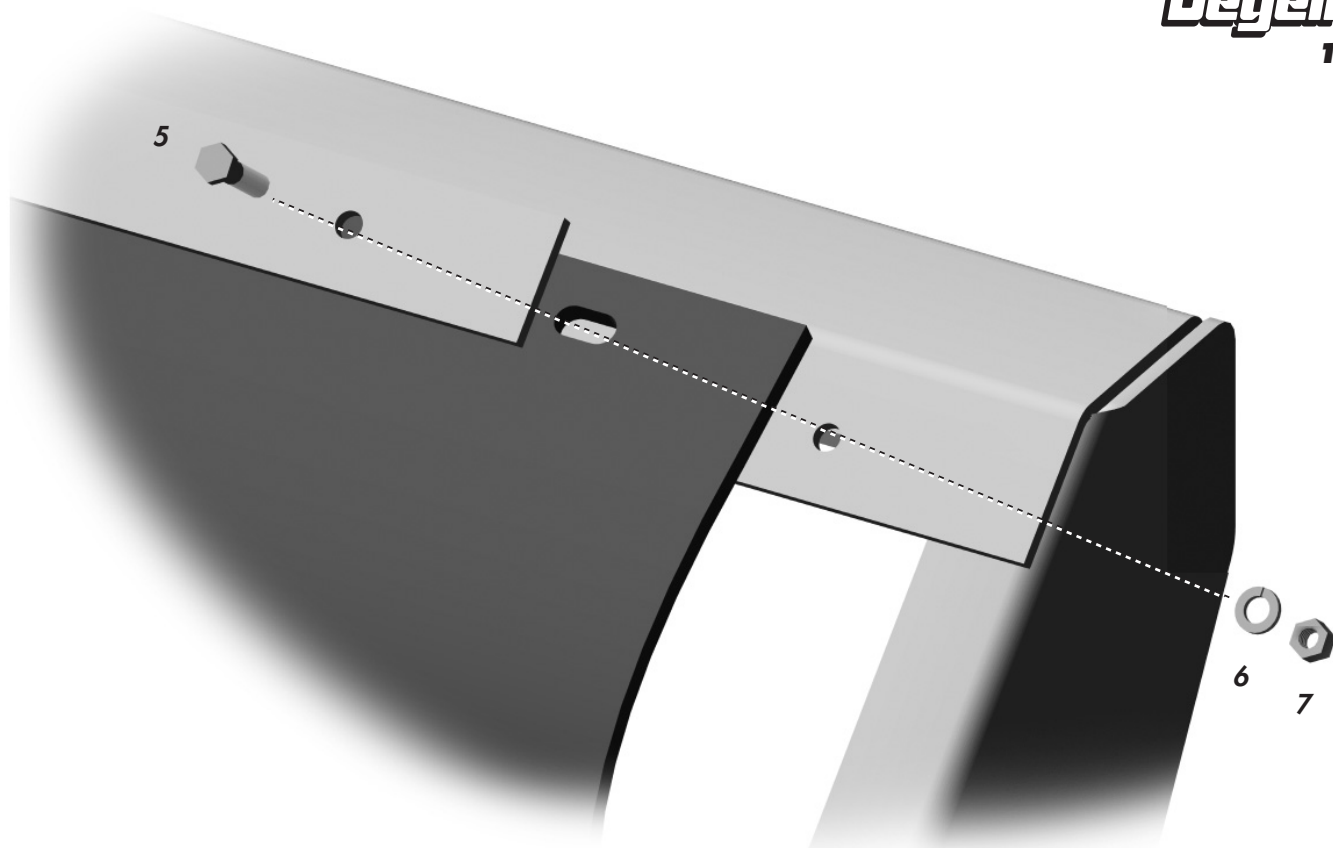
1	241636	Reel & shaft	1	11	240288	Reel pin	6
2	241650	Paddle	3	12	118880	Cotter pin 1/2 x 3	6
3	117103	Bushing	6	13	122046	Sprocket #80	1
4	143022	Spring	6		122074	Sprocket #100	
5	240316	Eyebolt 1 1/4 x 20 1/4	6	14	118269	Bolt 3/4 x 2 UNF Gr8	3
6	118445	Lock nut 1 1/4	6	15	118466	Lock nut 3/4 UNF Gr8 Unitorq	3
7	240327	Flat washer 1 5/16 x 3 1/2	6	16	118589	Machine bushing	ar
8	240018	Bumper pad	6	17	241202	Bushing	2
9	240286	Machine bushing 1 1/2	12				
10	118845	Roll pin 5/16 x 2 1/2	6				

Rockguard



	241145	6000 Rockguard	
	241675	7200	
1	241146	6000 Frame	1
	241676	7200	1
2	240497	6000 Rubber flap	1
	241680	7200	1
3	240495	6000 Bolt bar	2
	241681	7200	2
4	240496	6000 Angle bolt bar	1
	241679	7200	1
5	118136	Bolt 3/8 x 1 1/2	12/14
6	118503	Lock washer 3/8	12/14
7	118403	Nut 3/8	12/14
8	118011	Bolt 1/2 x 1 1/2	4
9	118504	Lock washer 1/2	4
10	118405	Nut 1/2	4

Qty for 6000 & 7200

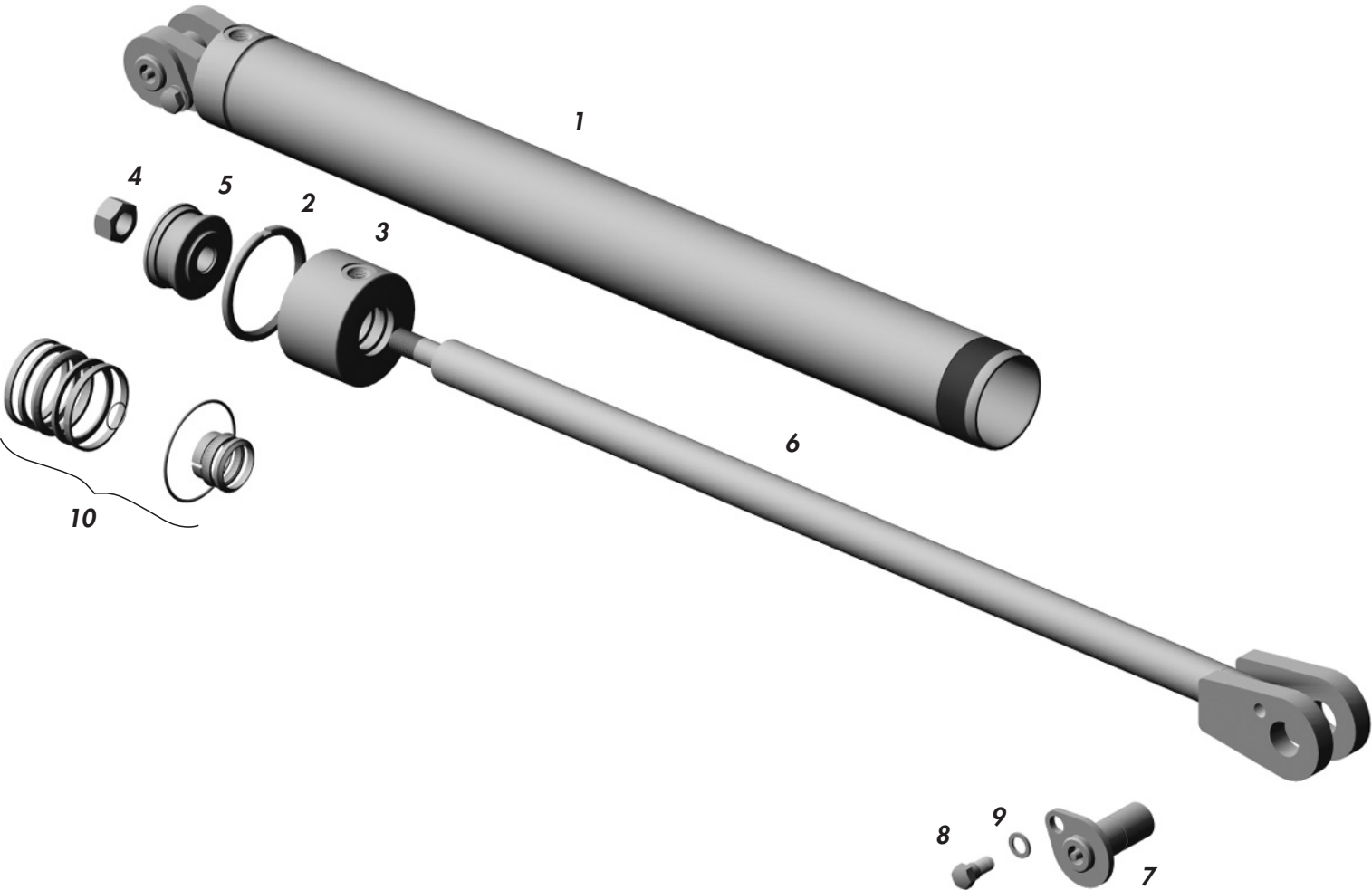


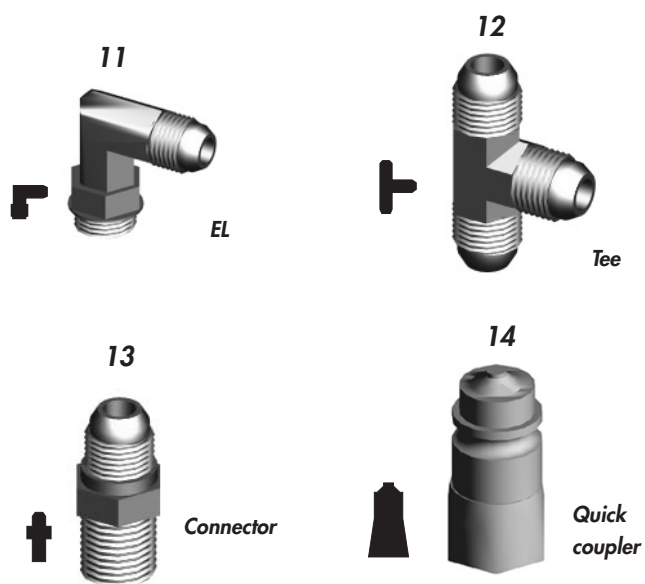
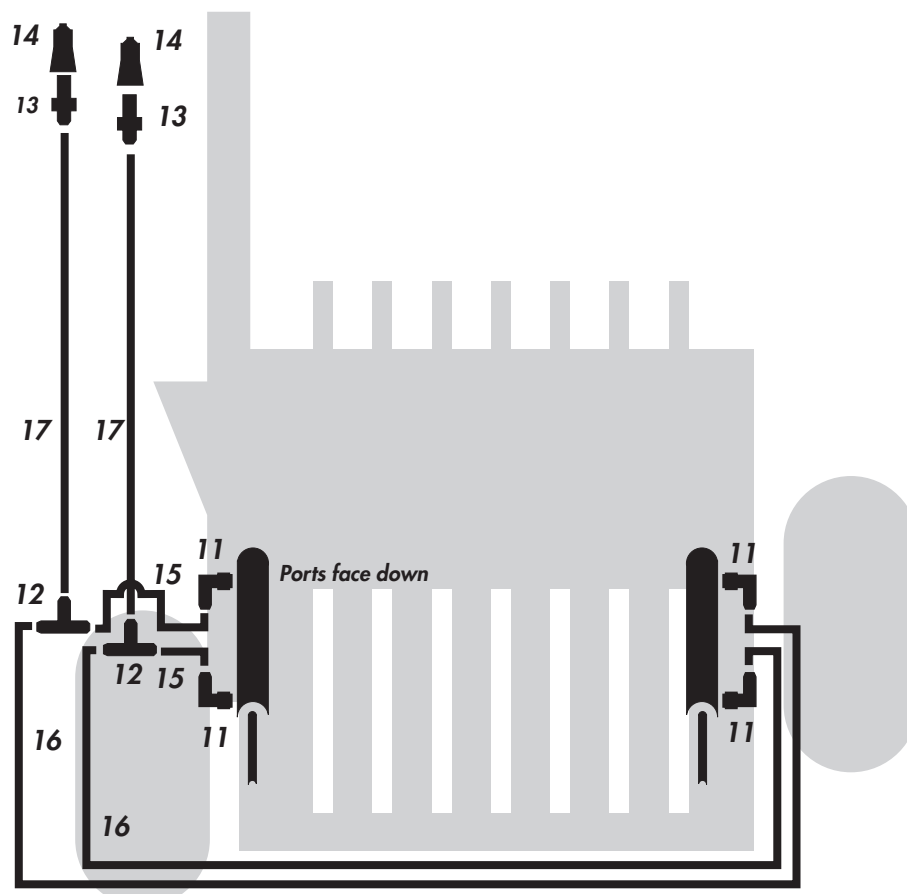
Hydraulics

Hopper box dump

**Common to all
models; hydraulic &
PTO drive**

	122732	3 x 31 x 1 1/2 Cylinder	2
1	122751	Barrel	1
2	122558	Lock ring	1
3	122556	Open cap	1
4	118441	Locknut 7/8 UNF Unitorg.	1
5	122563	Piston	1
6	122759	Rod & clevis	1
7	122755	Clevis pin	1
8	118796	Shld bolt 1/2 x 1 1/8	2
9	118924	Flat washer .591	2
10	122523	Seal kit	1

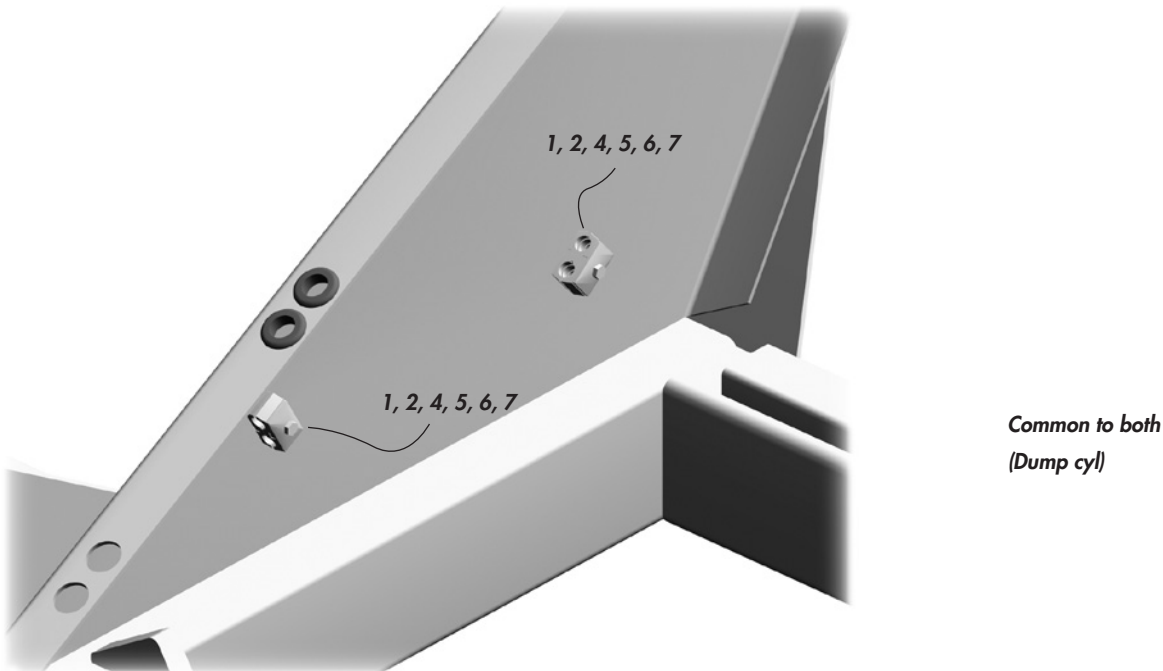
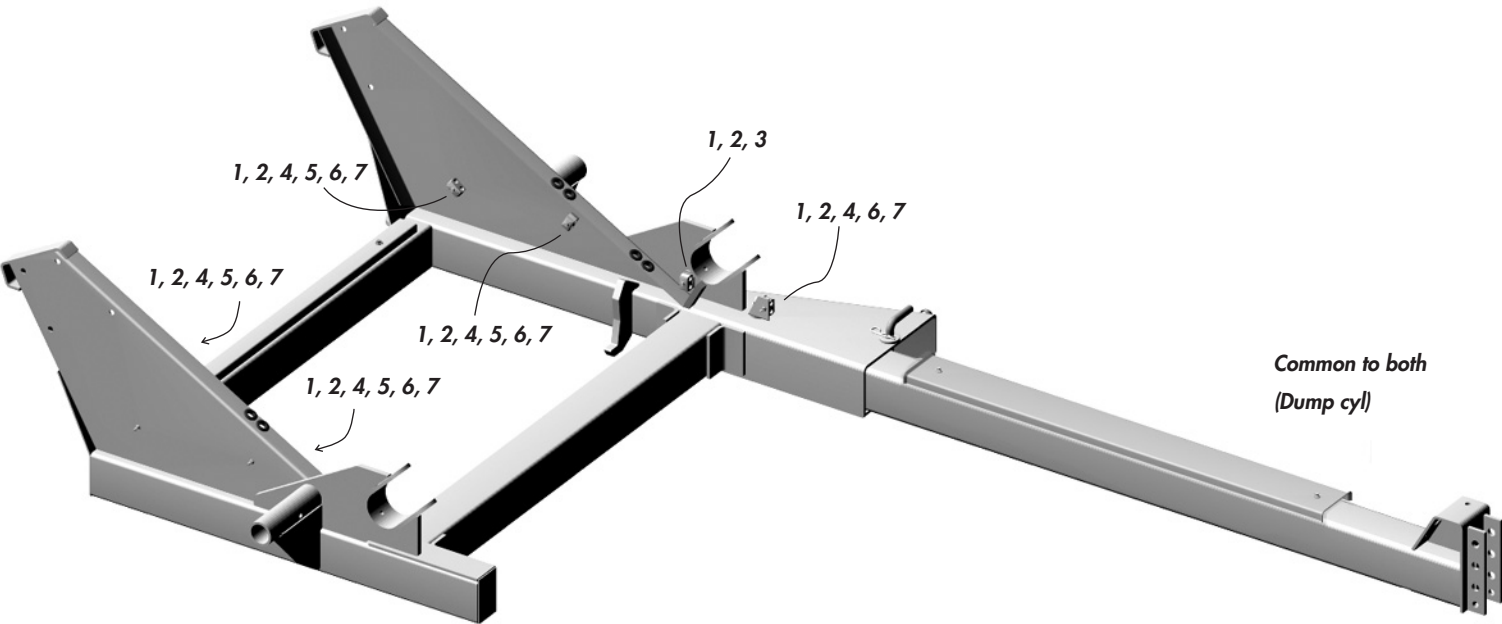
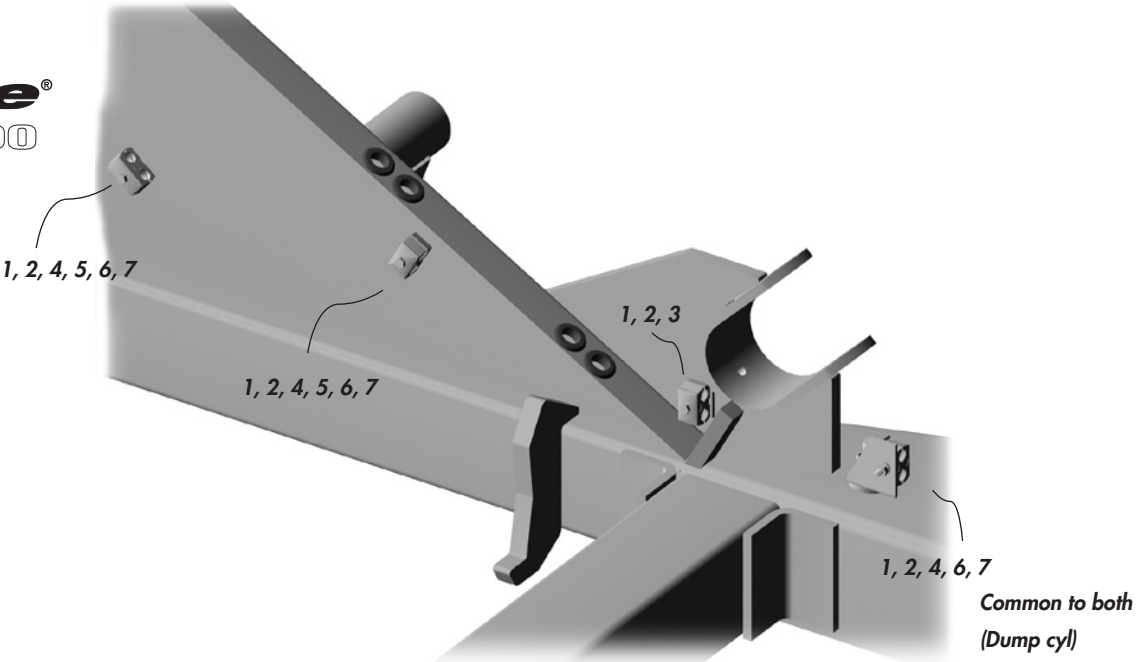


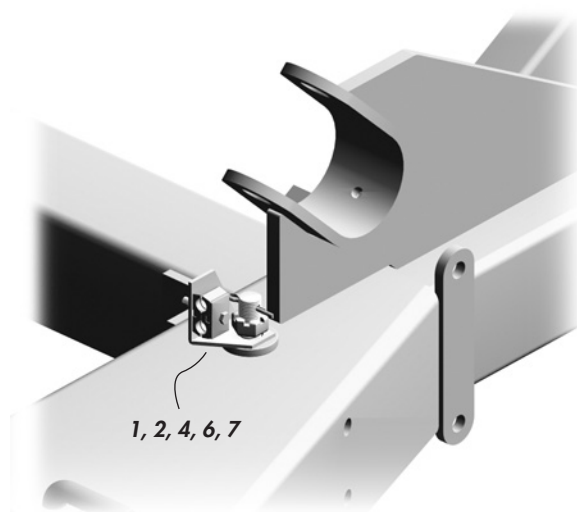


11	141504	El 3/4 m JIC x ORB	4
12	141501	Tee 3/4 JIC m	2
13	141514	Nipple m 3/4 JIC x 1/2 NPT	2
14	141576	Quik coupler 1/2 NPT	2

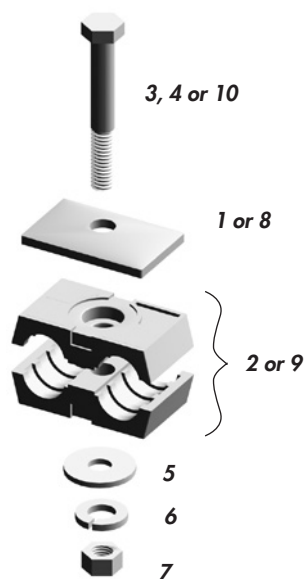
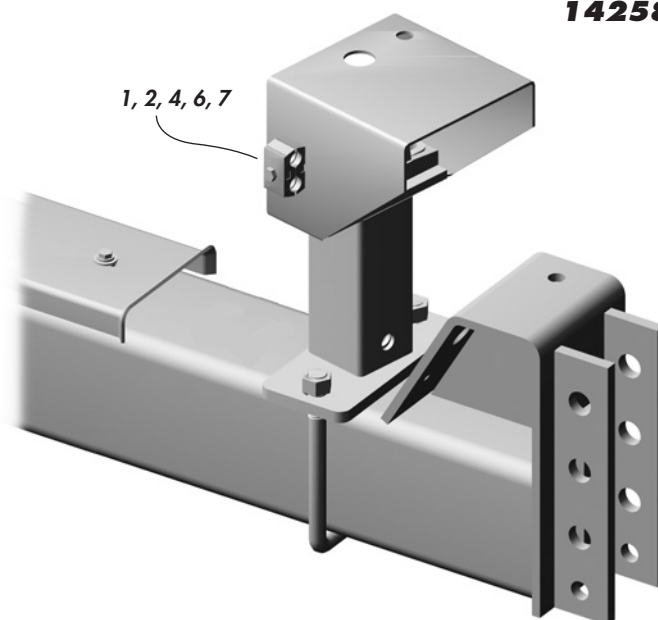
15	126522	Hose 3/8 x 36	2
16	126552	Hose 3/8 x 144 (6000)	2
	126531	Hose 3/8 x 156 (7200)	2
17	126643	Hose 3/8 x 198	2

Hose blocks





PTO drive



Dump cylinders: common to both drive systems

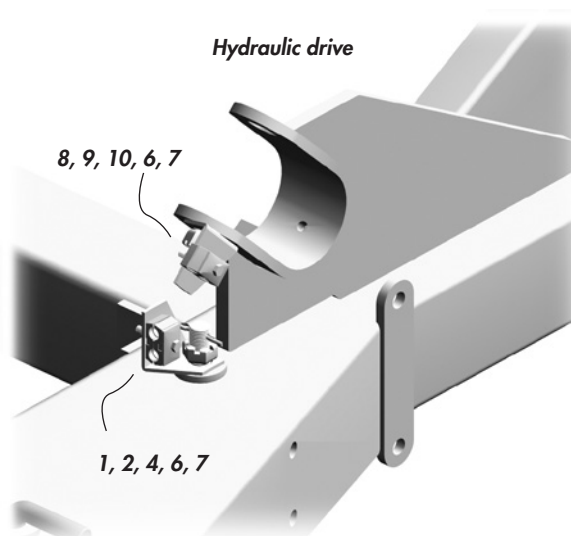
1	780279	Top plate 3/8 hose clamp	6	1
2	780278	Hose clamp 3/8	6	1
3	118144	Bolt 5/16 x 1 1/2	1	
4	118928	Bolt 5/16 x 2 1/4	5	1
5	118538	Flat washer 5/16	4	
6	118530	Lock washer 5/16	5	1
7	118427	Nut 5/16	5	1

Additional qty
needed for PTO

HYD setup only

8	780333	Top plate 1/2 hose clamp	2	
9	780332	Hose clamp 1/2	2	
10	118105	Bolt 5/16 x 2 1/2	1	

Hydraulic drive



PTO drive

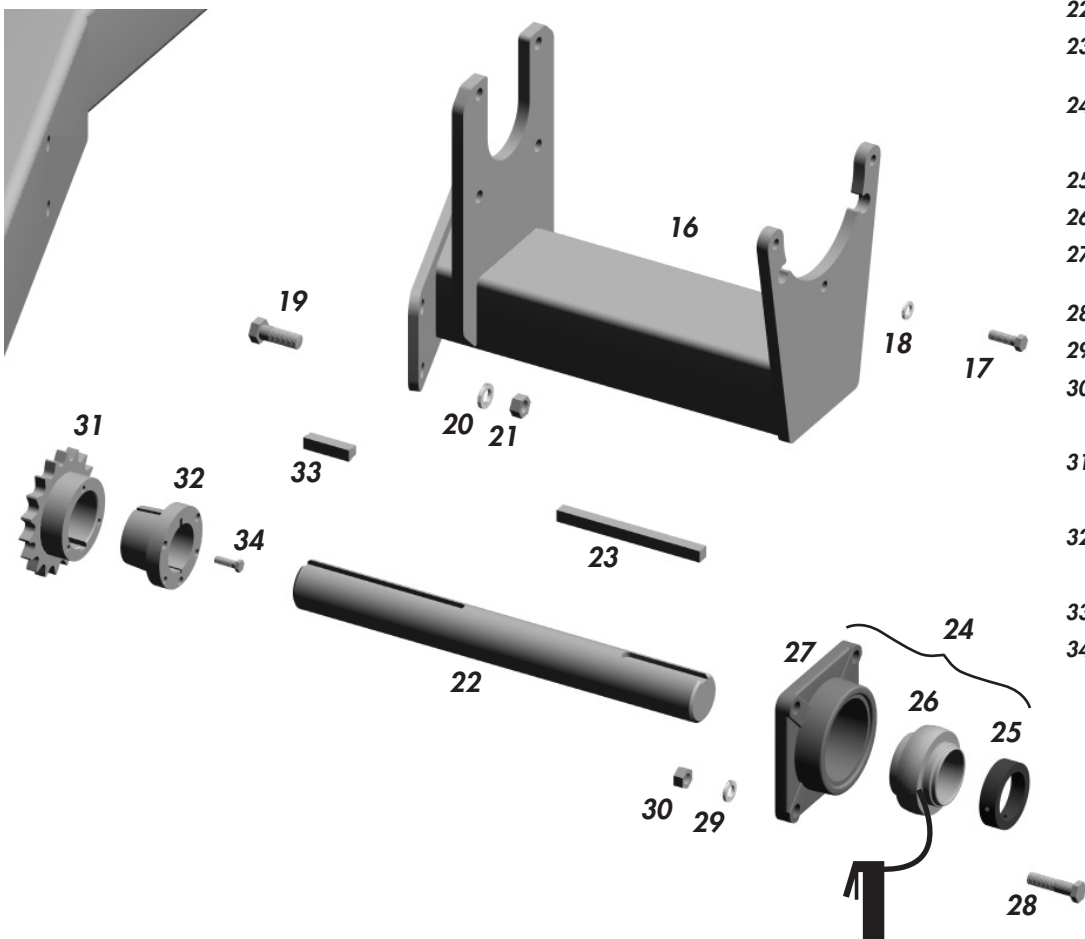
1	240541	Chain tightener, #80 Chain	1
	241770	Chain tightener, #100 Chain	
		c/w...	
2	143027	Tension spring	1
3	240544	Frame, #80	1
	241772	Frame, #100	
4	122001	Idler sprocket, #80	2
	122006	Idler sprocket, #100	
5	240548	Thd rod 3/4 x 4 1/2, #80	1
	241780	Bolt 1 x 5 1/2 - Grooved, #100	
6	222041	Bushing, #80	4
	241778	Bushing, #100	
7	118509	Lock washer 3/4, #80	2
	118510	Lock washer 1 in., #100	
8	118410	Nut 3/4, #80	2
	118412	Nut 1 in., #100	
9	118422	Lock nut 3/4, #80	1
	118456	Lock nut 1 in., #100	

10	118053	Bolt 3/4 x 3 1/2, #80	1
	118116	Bolt 1 x 4 1/2, #100	
11	121946	Pin	1
12	118882	Hair pin 2 3/4	2
13	118240	Eye bolt 5/8 x 5 1/4	1
14	118514	Flat washer 5/8	1
15	118448	Lock nut 5/8	1

16	241536	Gear box stand	1
17	118011	Bolt 1/2 x 1 1/2	3
18	118504	Lock wash 1/2	3
19	118043	Bolt 3/4 x 2	4
20	118509	Lock washer 3/4	4
21	118410	Nut 3/4	4

22	241210	Gearbox shaft	1
23	119032	Key 7 7/8	1
24	117006	Bearing unit	1
		c/w...	
25	117022	Locking collar	1
26	117106	Bearing insert	1
27	117107	Flange casting	1
28	118028	Bolt 5/8 x 2 1/2	4
29	118508	Lock washer 5/8	4
30	118407	Nut 5/8	4

31	122053	Tapered ID Sprocket, #80	1
	122018	Tapered ID Sprocket, #100	
32	122021	Split tapered bush/key	1
		c/w...	
33	122020	Key	1
34	118129	Bolt 3/8 x 1 1/4	3



Gearbox

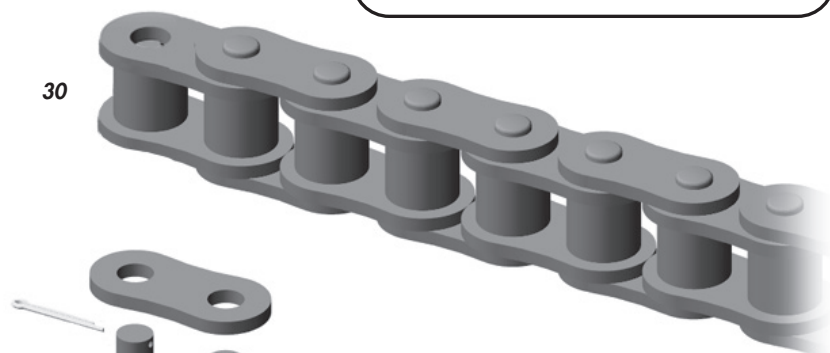
6000 - #80 Chain All Models

7200 - #80 Chain Models

(Serial #'s up to 23066, 23074 & 23075)

7200 - #100 Chain Models

(Serial #'s 23067 to 23073, & above 23096)



10	119053	Small output cap	1
11		Gasket	5
5		Bolt 3/8 x 1 1/4	8 16

12	119179	Pinion seal carrier	1
13	119012	Dust seal	1
14		Gasket	1
15	119070	Setscrew #10x3/4 unf allen	4

16	119178	Input cap	1
17		Gasket	5
18		Socket capscrew	7
19		Port plug 1/8 npt M allen	2

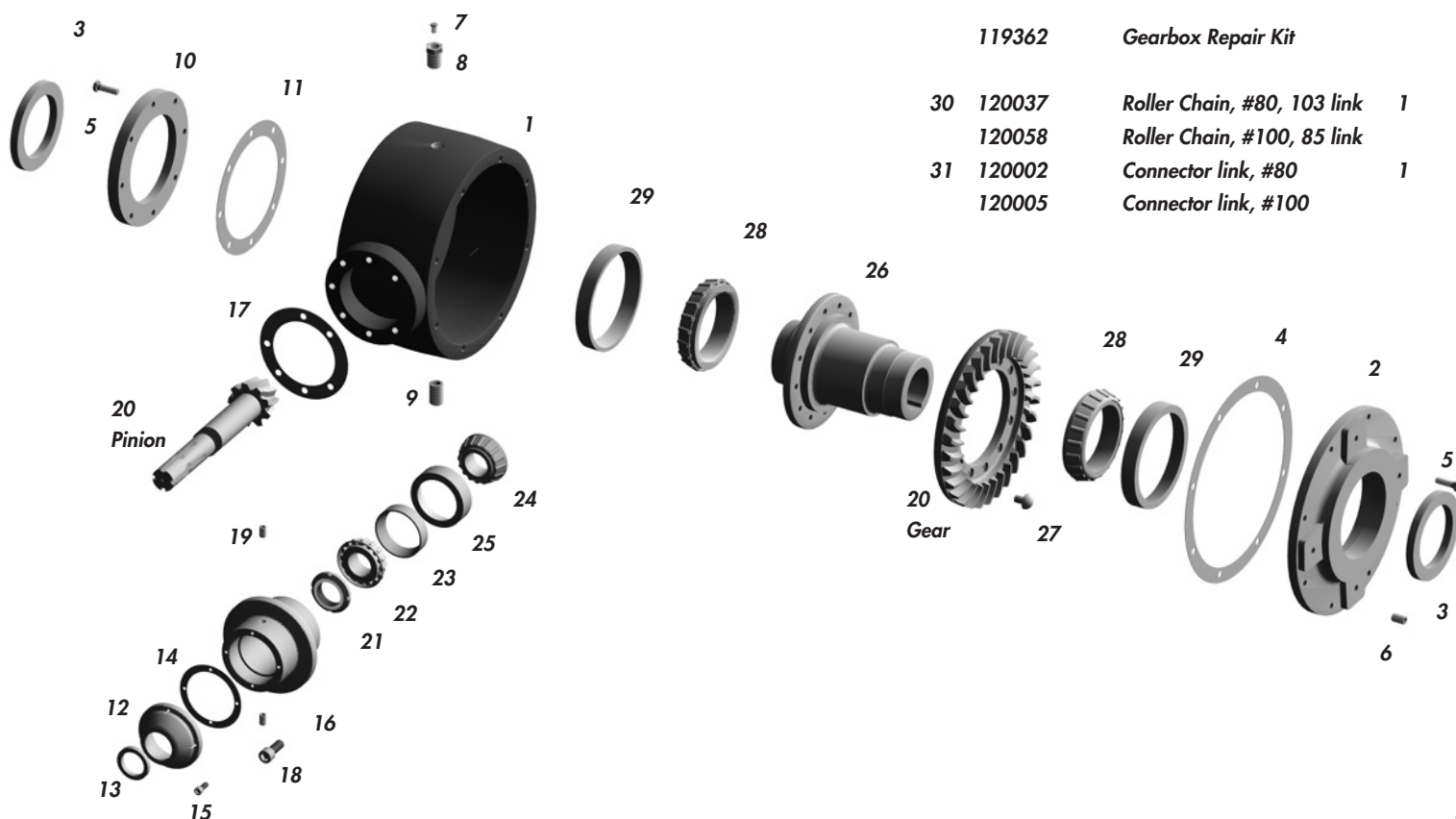
20	119361	Gear/pinion set	1
21		Lock nut 1 1/2	1
22	131070	Cone bearing	1
23	119182	Bearing cup	1
24	119183	Cone bearing	1
25	119181	Bearing cup	1

26	119054	Ring gear hub	1
27		Rivet 3/8 x 1 1/4	12

28	119056	Cone bearing	2
29	119055	Bearing cup	2

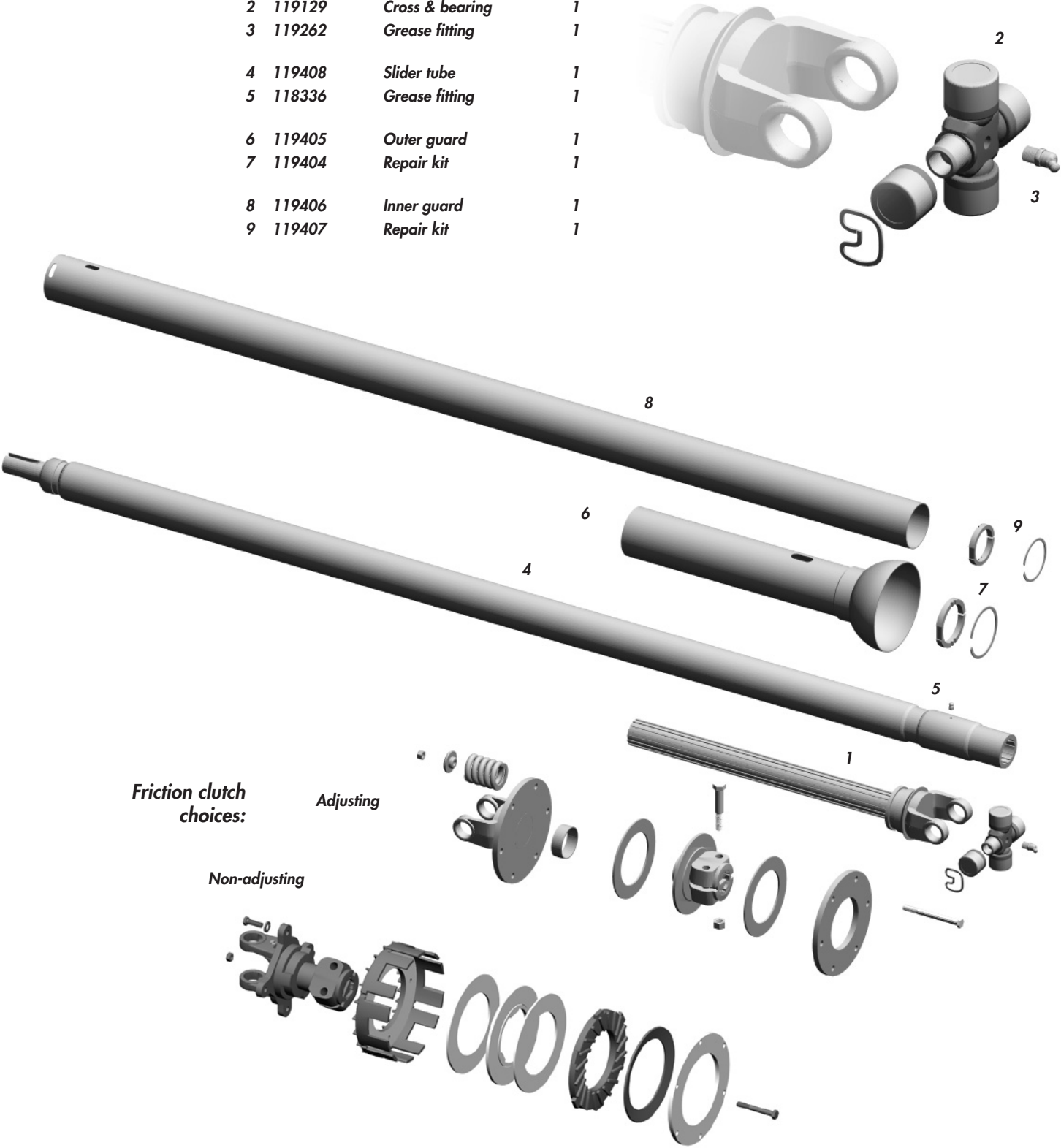
119362 Gearbox Repair Kit

30	120037	Roller Chain, #80, 103 link	1
	120058	Roller Chain, #100, 85 link	
31	120002	Connector link, #80	1
	120005	Connector link, #100	

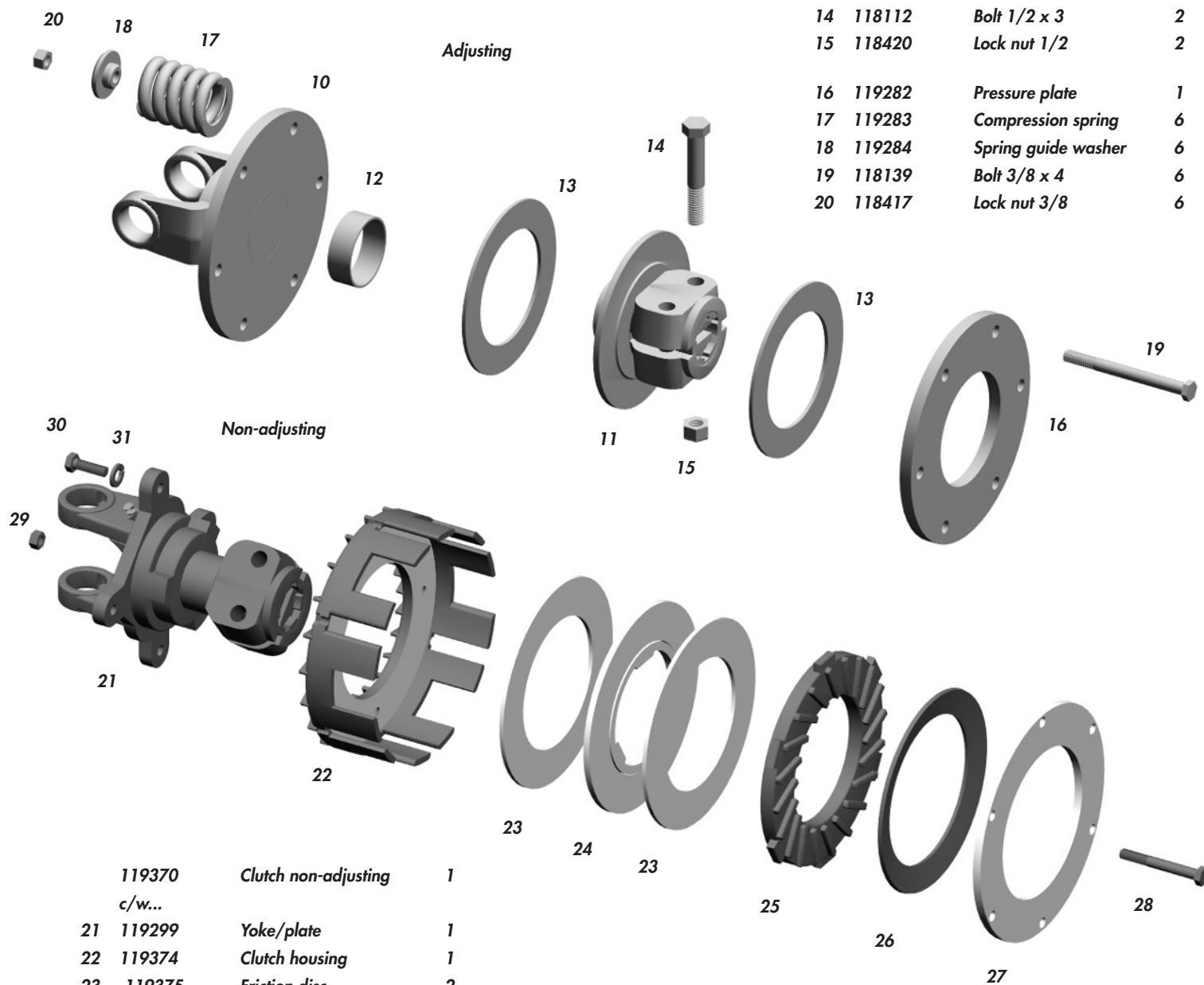


PTO drive

	119400	Drive shaft	1
	c/w....		
1	119403	Yoke/splined shaft	1
2	119129	Cross & bearing	1
3	119262	Grease fitting	1
4	119408	Slider tube	1
5	118336	Grease fitting	1
6	119405	Outer guard	1
7	119404	Repair kit	1
8	119406	Inner guard	1
9	119407	Repair kit	1



Friction clutch

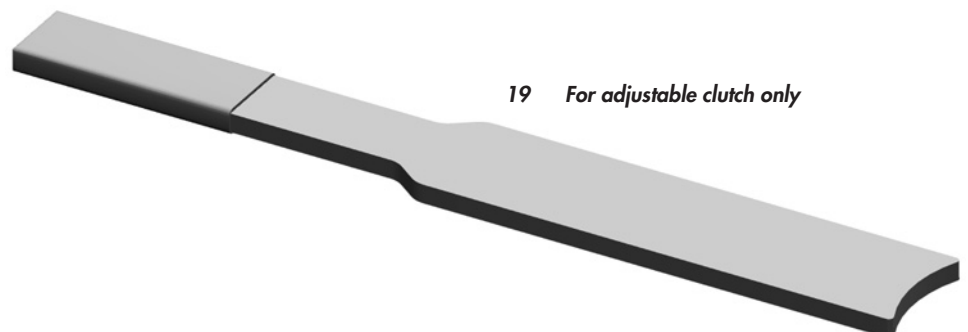
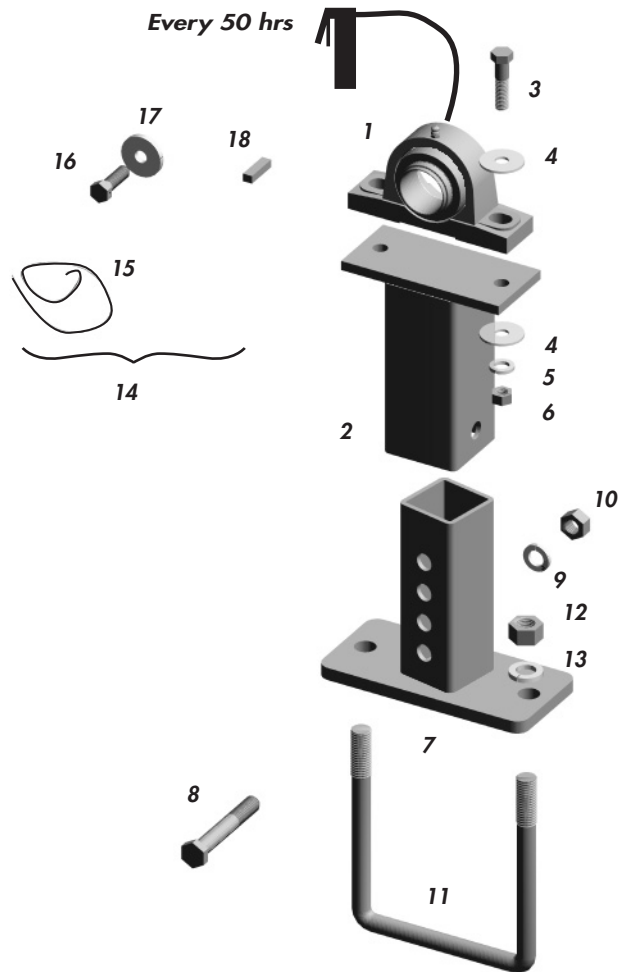


119402	Clutch, adjusting	1
c/w...		
10 119278	Yoke/plate	1
13 119608	Hub plate	1
12	Bronze bushing	1
13 119280	Friction disc	2
14 118112	Bolt 1/2 x 3	2
15 118420	Lock nut 1/2	2
16 119282	Pressure plate	1
17 119283	Compression spring	6
18 119284	Spring guide washer	6
19 118139	Bolt 3/8 x 4	6
20 118417	Lock nut 3/8	6

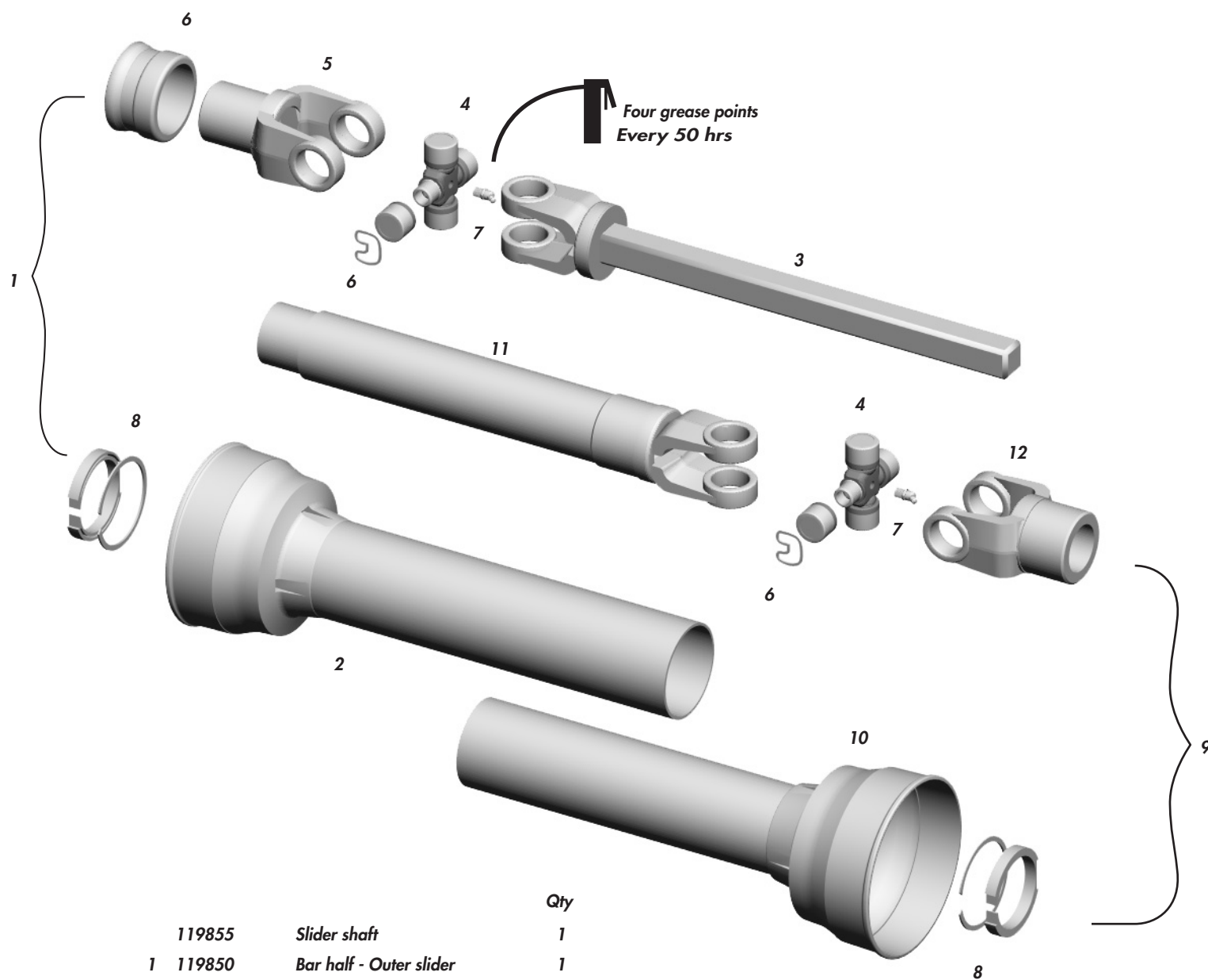
119370	Clutch non-adjusting	1
c/w...		
21 119299	Yoke/plate	1
22 119374	Clutch housing	1
23 119375	Friction disc	2
24 119376	Separator plate	1
25 119377	Pressure plate	1
26 119378	Disc spring	1
27 119379	Compression plate	1
28 118783	Bolt 5/16 x 2 1/2 gr8	6
29 118427	Nut 5/16	6
30 118792	Bolt 5/16 x 1	4
31 118530	Lock washer 5/16	4

PTO DRIVE
Bearing stand

		Qty
1	117023 Bearing unit c/w....	1
	117010 Pillow block casting	1
	117090 Bearing insert	1
	117024 Lock collar	1
2	241227 Bearing stand top	1
3	118014 Bolt 1/2 x 2	2
4	118512 Flat washer 1/2	4
5	118504 Lock washer 1/2	2
6	118405 Nut 1/2	2
7	241223 Bearing stand base	1
8	118094 Bolt 5/8 x 4	1
9	118508 Lock washer 5/8	1
10	118407 Nut 5/8	1
11	118622 U bolt 3/4 x 7 1/2	1
12	118410 Nut 3/4	2
13	118509 Lock washer 3/4	2
14	119340 U-Joint kit c/w....	1
15	Wire	1
16	Bolt 1/2 x 1 1/4 drilled	1
17	Flat washer 1/2, 1/4 thick	1
18	Key 1 3/8 long	1
19	241545 Clutch pry tool	1

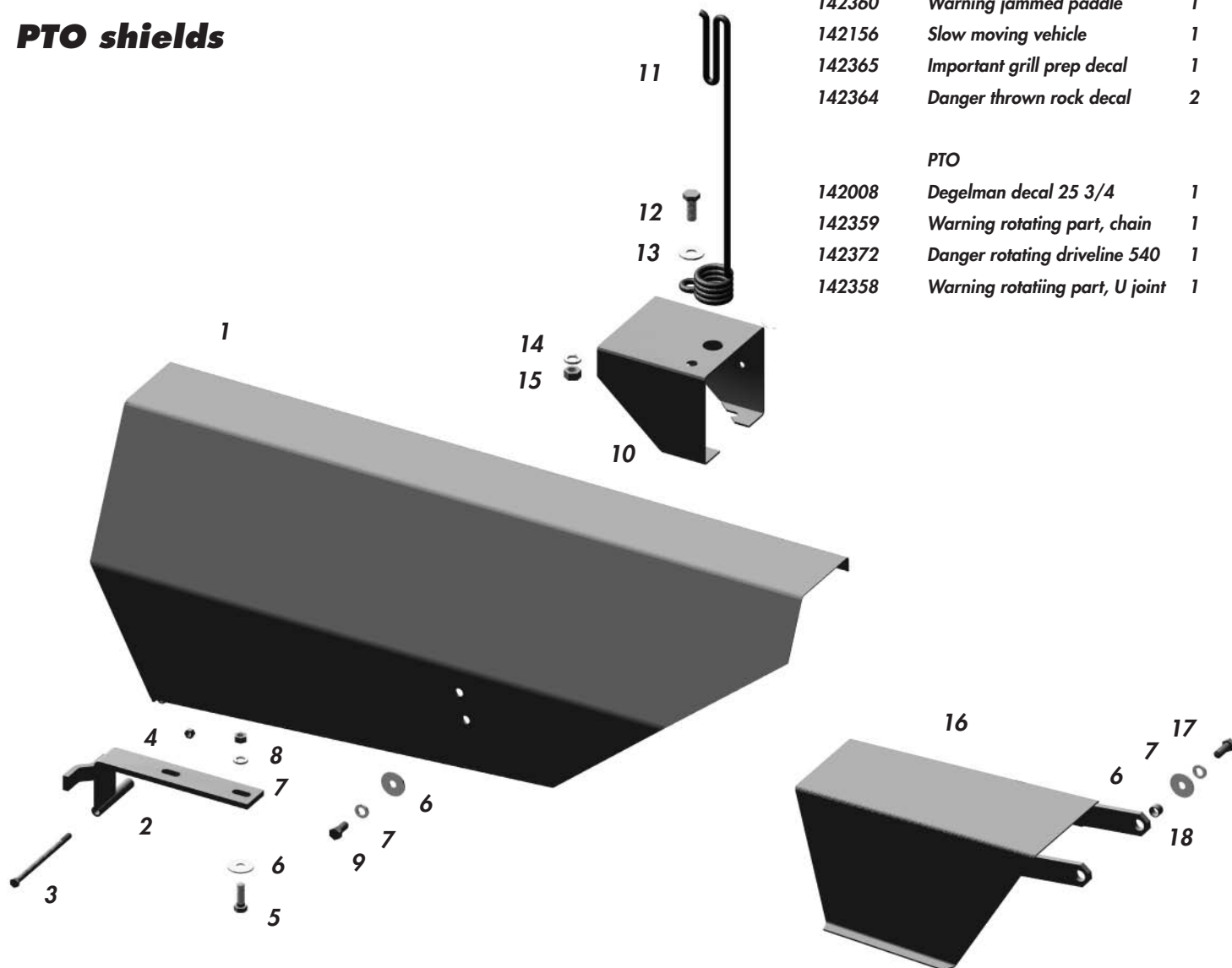


Slider shaft



			Qty
	119855	Slider shaft	1
1	119850	Bar half - Outer slider	1
2	119857	Outer shield	1
3	119856	Yoke & shaft	1
4	119129	Cross & bearing	1
5	119331	Yoke	1
6	119357	Spring lock, repair kit	1
7	119262	Grease fitting	
8	119428	Repair kit, nylon	1
9	119852	Tube half - Inner slider	1
10	119858	Inner shield	1
11	119860	Yoke & tube	1
12	119861	Yoke	1

PTO shields



Decals and reflectors, general

142009	Degelman decal 16 1/4	2
142356	Caution decal 10 pts safety	1
142280	Reflector tape red 2x6	2
142357	Warning missing shield decal	1
142360	Warning jammed paddle	1
142156	Slow moving vehicle	1
142365	Important grill prep decal	1
142364	Danger thrown rock decal	2

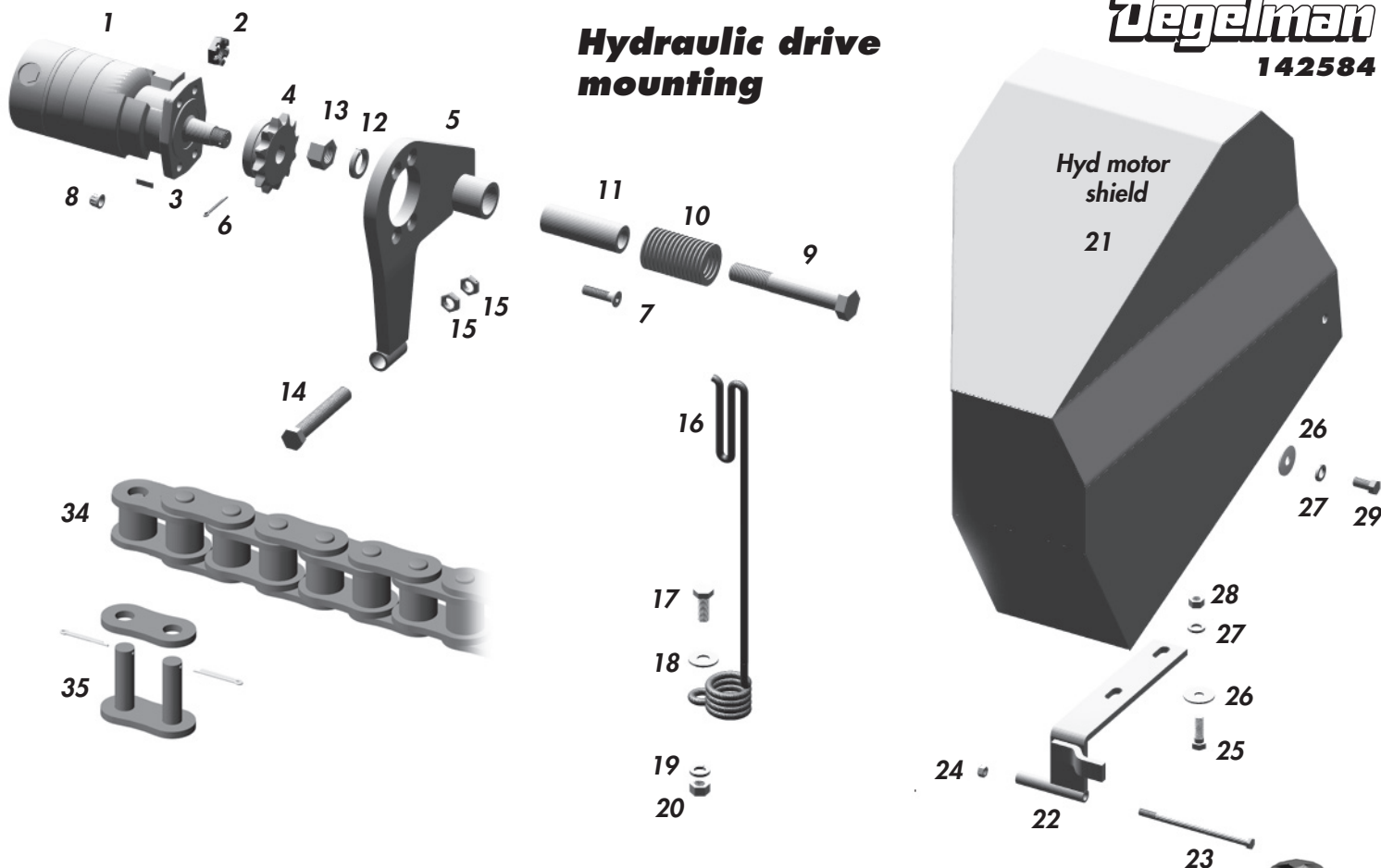
PTO

142008	Degelman decal 25 3/4	1
142359	Warning rotating part, chain	1
142372	Danger rotating driveline 540	1
142358	Warning rotating part, U joint	1

1	240758	Chain shield	1
2	240744	Chain shield brkt	1
3	118639	Bolt 3/8 x 6 1/2	1
4	118417	Lock nut 3/8	1
5	118011	Bolt 1/2 x 1 1/2	2
6	118512	Flat washer 1/2	2
7	118504	Lock washer 1/2	2
8	118405	Nut 1/2	2
9	118008	Bolt 1/2 x 1	1
7		Lock washer 1/2	1
6		Flat washer 1/2	1

10	241231	Front PTO shield	1
11	143111	Flexible hose holder	1
12	118024	Bolt 5/8 x 1 1/2	1
13	118514	Flat washer 5/8	1
14	118508	Lock washer 5/8	1
15	118407	Nut 5/8	1
16	240610	Torque limiter shield	1
17	118009	Bolt 1/2 x 1 1/4	2
7		Lock washer 1/2	2
6		Flat washer 1/2	2
18	240402	Bushing	2

Hydraulic drive mounting



1	226632	Ross hydraulic motor c/w...	1	14	240548	Threaded rod 3/4 x 4 1/2	1
2	118491	Slotted nut 1 UNF	1	15	118435	Jam nut 3/4	2
3	226600	Key	1	16	143111	Flexible hose holder	1
	226617	Shaft	1	17	118024	Bolt 5/8 x 1 1/2	1
	226627	Seal kit	1	18	118514	Flat washer 5/8	1
	226589	Relief valve 1000psi	1	19	118508	Lock washer 5/8	1
	226590	Relief valve 3000psi	1	20	118407	Nut 5/8	1
4	241156	Sprocket #80, 12 tooth	1	21	241160	Hyd motor shield	1
	122111	Sprocket #100, 9 tooth	1	22	240744	Chain shield brkt	1
5	241151	Motor mount, #80 Chain Type	1	23	118639	Bolt 3/8 x 6 1/2	1
	241766	Motor mount, #100 Chain Type	1	24	118417	Lock nut 3/8	1
6	118892	Cotter pin 2 lg	1	25	118011	Bolt 1/2 x 1 1/2	2
				26	118512	Flat washer 1/2	2
7	118709	Capscrew 1/2 x 2 UNF	4	27	118504	Lock washer 1/2	2
8	118710	Dbl hex lock nut 1/2 UNJF gr8	4	28	118405	Nut 1/2	2
				29	118008	Bolt 1/2 x 1	1
9	118115	Bolt 1 x 6 1/2	1	27		Lock washer 1/2	1 3
10	240286	Machine bushing shim 14ga	15	26		Flat washer 1/2	1 3
11	241155	Bushing 4 1/2	1				
12	118510	Lock washer 1	1	30	141539	Nipple m 3/4JICx7/8ORB	2
13	118412	Nut 1	1	31	126555	Hose 1/2 x 198	2
				32	141514	Nipple m 1/2NPTx3/4JIC	2
				33	141576	Quick coupler	2
				34	120008	Roller Chain, #80, 55 link	1
					120059	Roller Chain, #100, 43 link	1
				35	120032	Connector link, #80	1
					120005	Connector link, #100	1

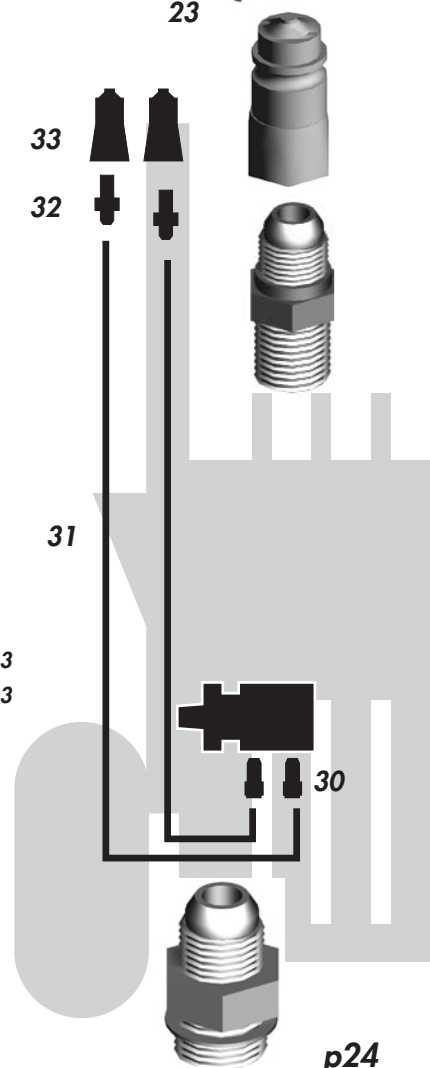
6000 - #80 Chain All Models

7200 - #80 Chain Models

(Serial #'s up to 23066, 23074 & 23075)

7200 - #100 Chain Models

(Serial #'s 23067 to 23073, & above 23096)

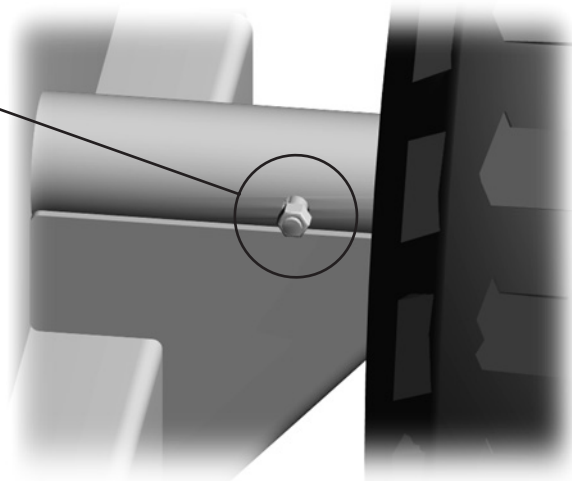


**Make sure
transport pin is
engaged in
transport
position.**

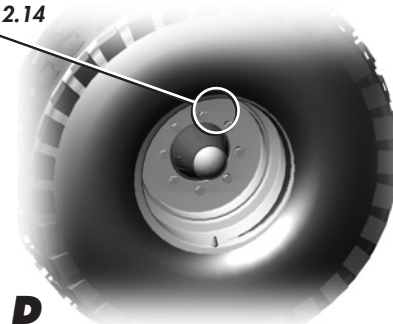


**Keeps grill
from dropping**

Two places;
Bolt 1/2 x 4
Lock nut 1/2



Sixteen places;
Wheel bolt 9/16 x 2.14
Jam nut 9/16



D

**Mount wheels to
hub with valve
stems on the
outside.**

A Block up 12 inches

**Keep clear of
underneath while
machine is
raised.**



TORQUE



all hardware

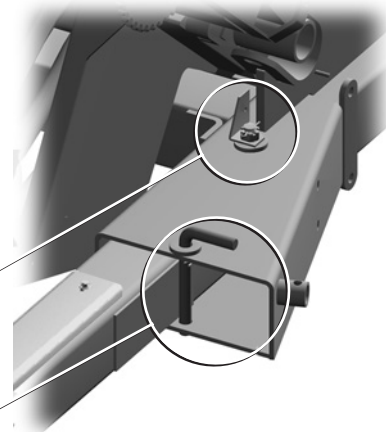
B

**Attach hitchpole
to frame**

C

Attach jack to hitchpole

Bolt 1 x 9 drilled
Bent hose clip
Nut 1 slotted

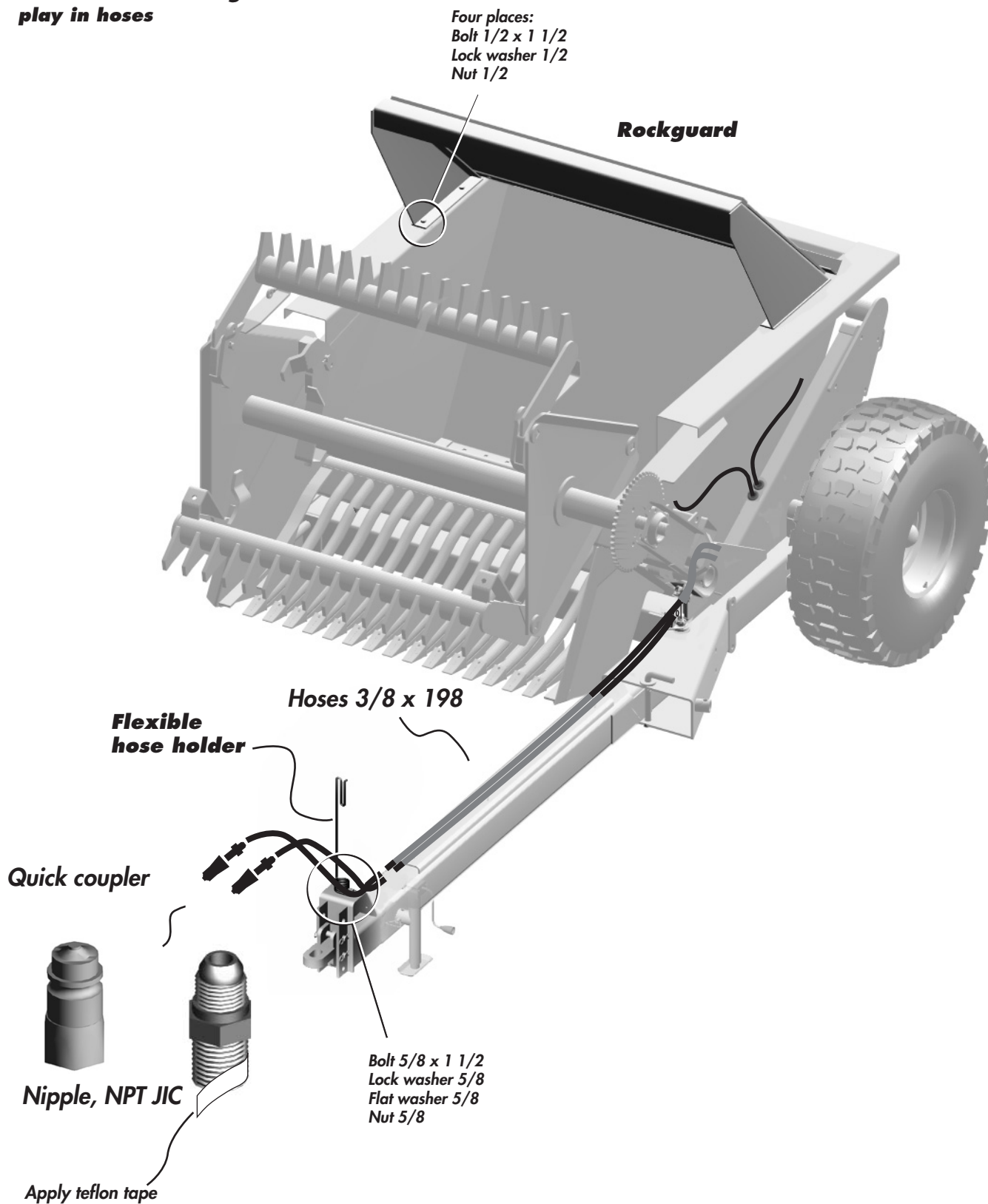


Transport pin
Hair pin

**General assembly-
for both hydraulic
& PTO drives**

E

- **Fasten rockguard to box**
- **Run hoses for dump cylinders**
- **Move hitchpole into field position and back to ensure there is enough play in hoses**



Hydraulic Drive motor installation

A

- Bolt motor mount to motor
- Slip sprocket over spindle
- Fasten with castle nut & cotter pin

Slotted nut 1
 Cotter pin 1/2
 Key

Motor
 mount

Four places:
 Capscrew 1/2 x 2
 Dbl hex lock nut 1/2

Ports

Ports on
 same side as
 large bushing

Large bushing

B

- Loosely bolt motor mount between bearing mount lugs without shims in place

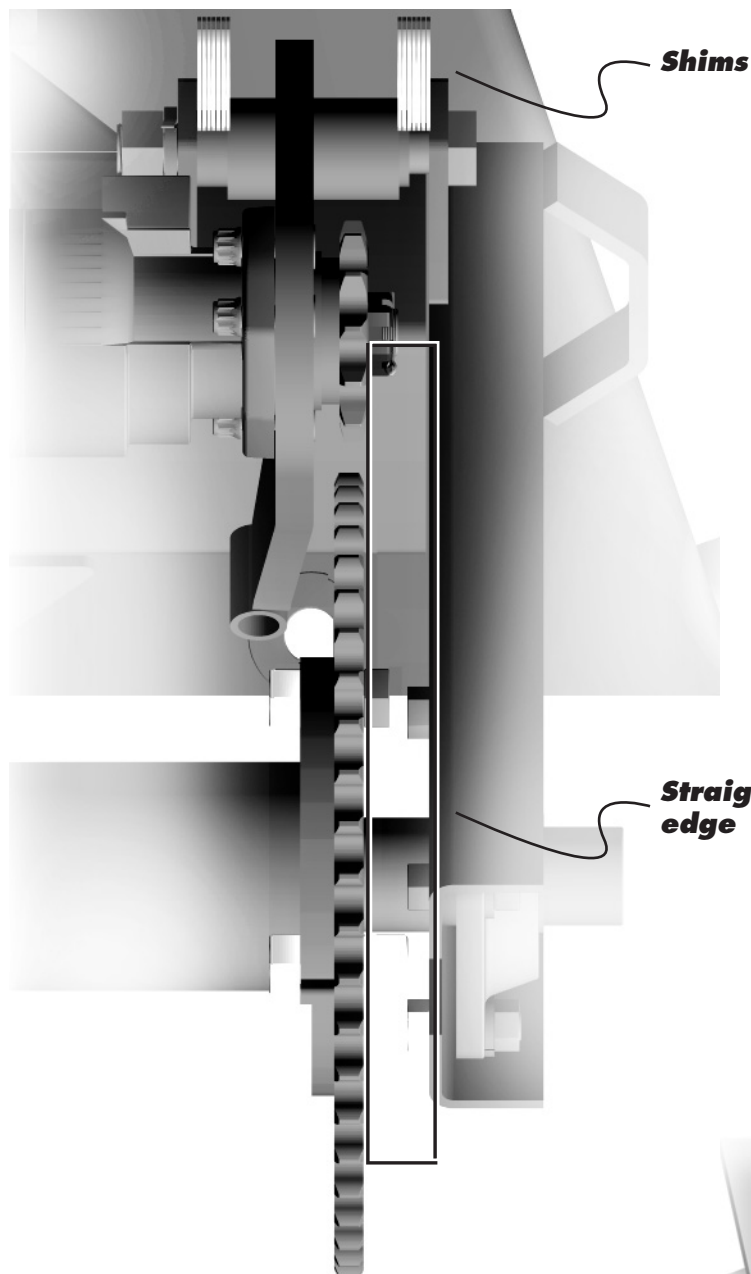
TORQUE



all hardware

Bolt 1 x 6 1/2
 Lock washer 1
 Nut nut 1
 Bushing 4 1/2

Lugs



C

- **Align the two sprockets with a straight edge**
- **Fit the edges of the shims between bushing & lugs**
- **Note how many shims go to the left and the right**

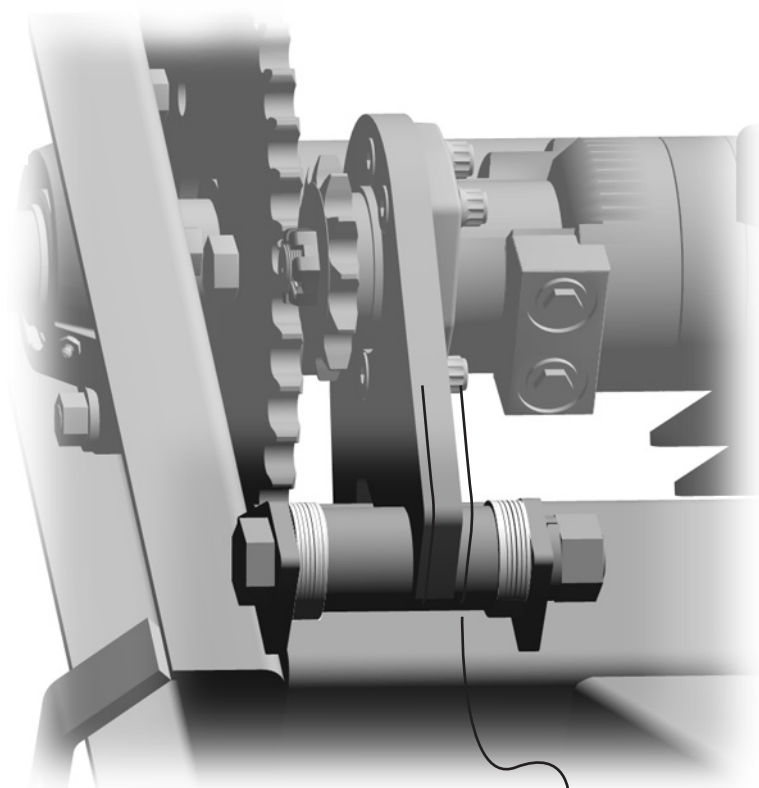
D

- **Reinstall motor mount with shims**
- **Re-check alignment with straight edge**

TORQUE



all hardware



Allow a small degree of float

Degelman

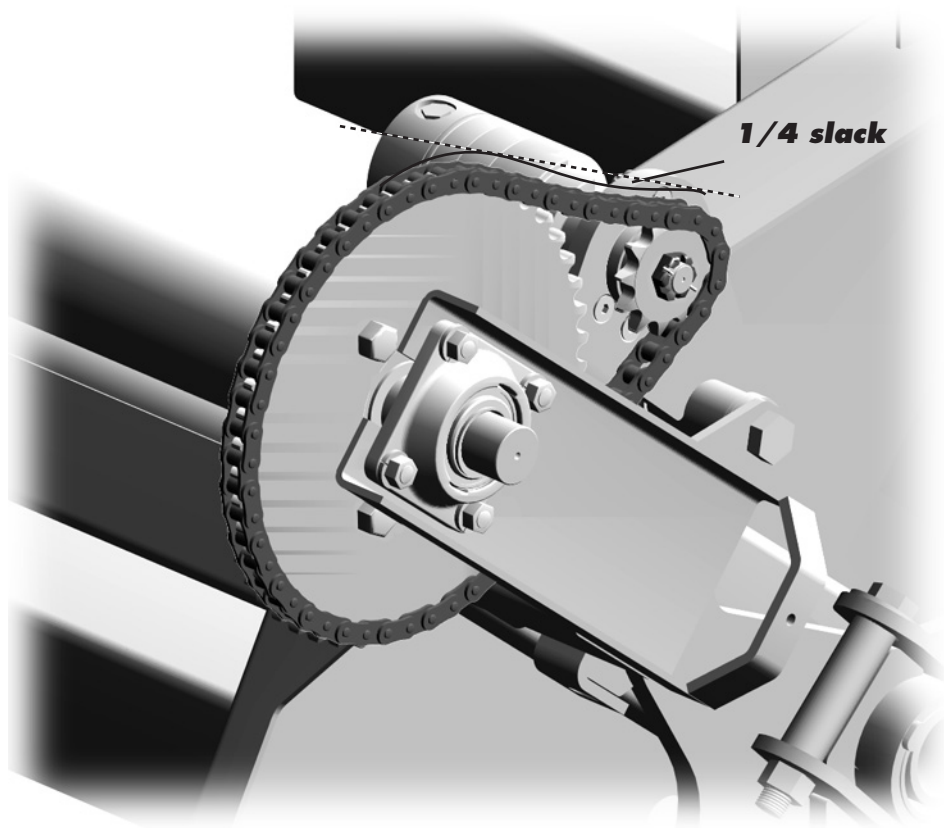
signature®

6000

7200

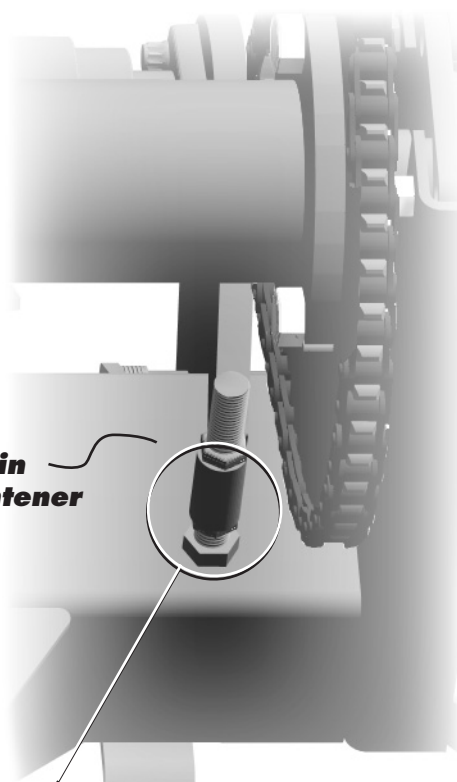
142584

Hydraulic Drive motor installation



A

- **Wrap chain around sprockets**
- **Join ends with connector link (the offset link is used to add additional length)**
- **Turn the large sprocket until there is the least amount of slack on the chain (A large sprocket will have minor variations in it's radius)**
- **Adjust chain tightener until there is 1/4 inch slack on upper part of chain**



TORQUE



all hardware

Threaded rod 3/4 x 4 1/2
Jam nut 3/4 (2)

B

- Loosely bolt on shield brkt's slotted holes onto reel support frame
- Fit brkt & shield's bushings and bolt
- Align holes on shield & frame & install bolt
- Tighten shield brkt

Brkt & shield bushings

Shield brkt

Holes on shield & frame to align

Two places:
Bolt 1/2 x 1 1/2
Flat washer 1/2
Lock washer 1/2

Bolt 1/2 x 1
Flat washer 1/2
Lock washer 1/2

C

Attach:

- Quick coupler to nipple using teflon tape
- Connector to motor ports
- Run 1/2 hoses
- Hose clips

Wedge hoses into flex. holder

Connector ORB JIC



Motor

Nipple NPT JIC



Hoses 1/2 x 198

Flex. hose holder

Quick coupler



Apply teflon tape

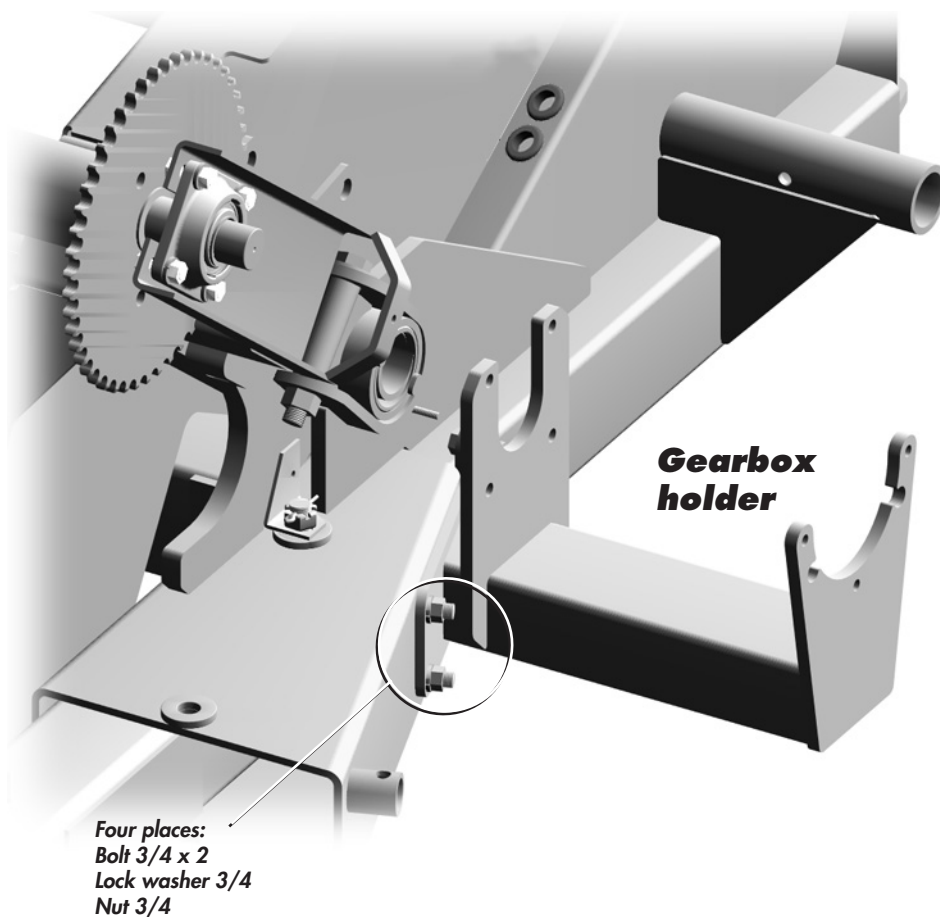
Move hitchpole to field position & back to check hose slackness



PTO Drive installation

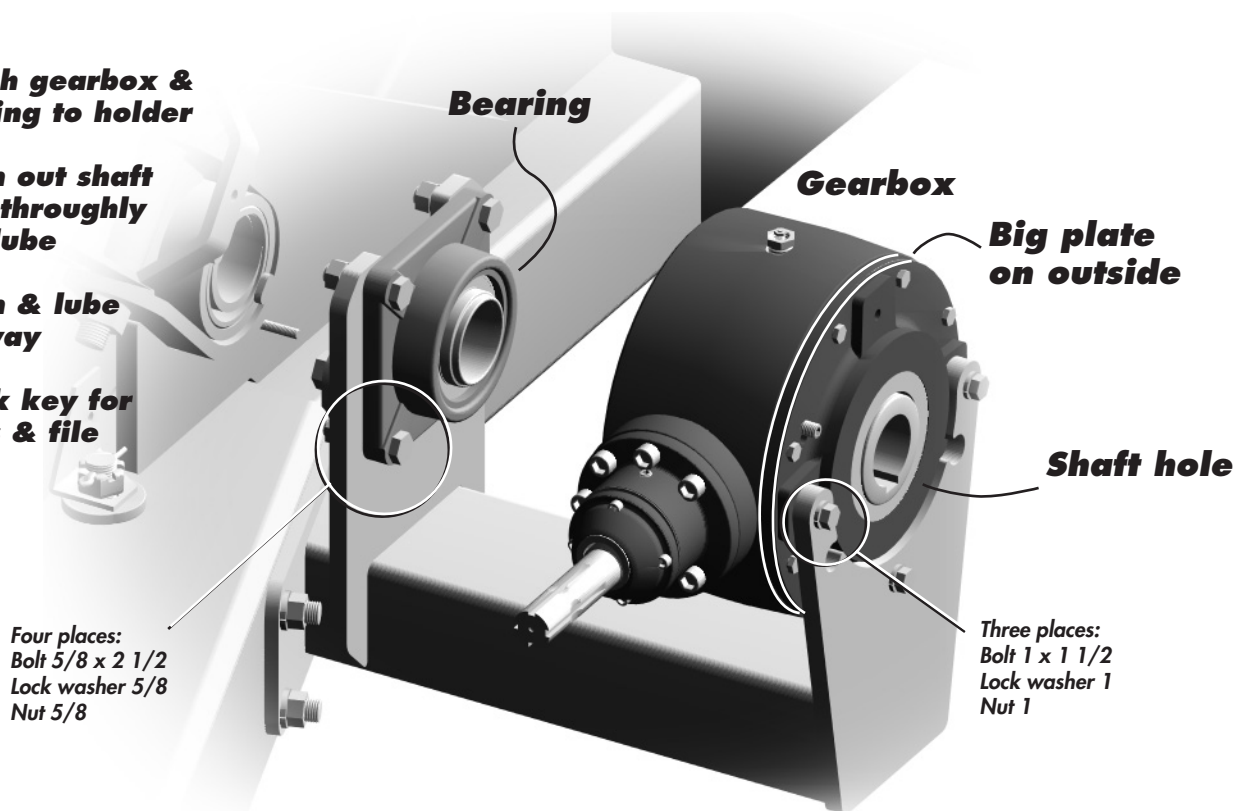
A

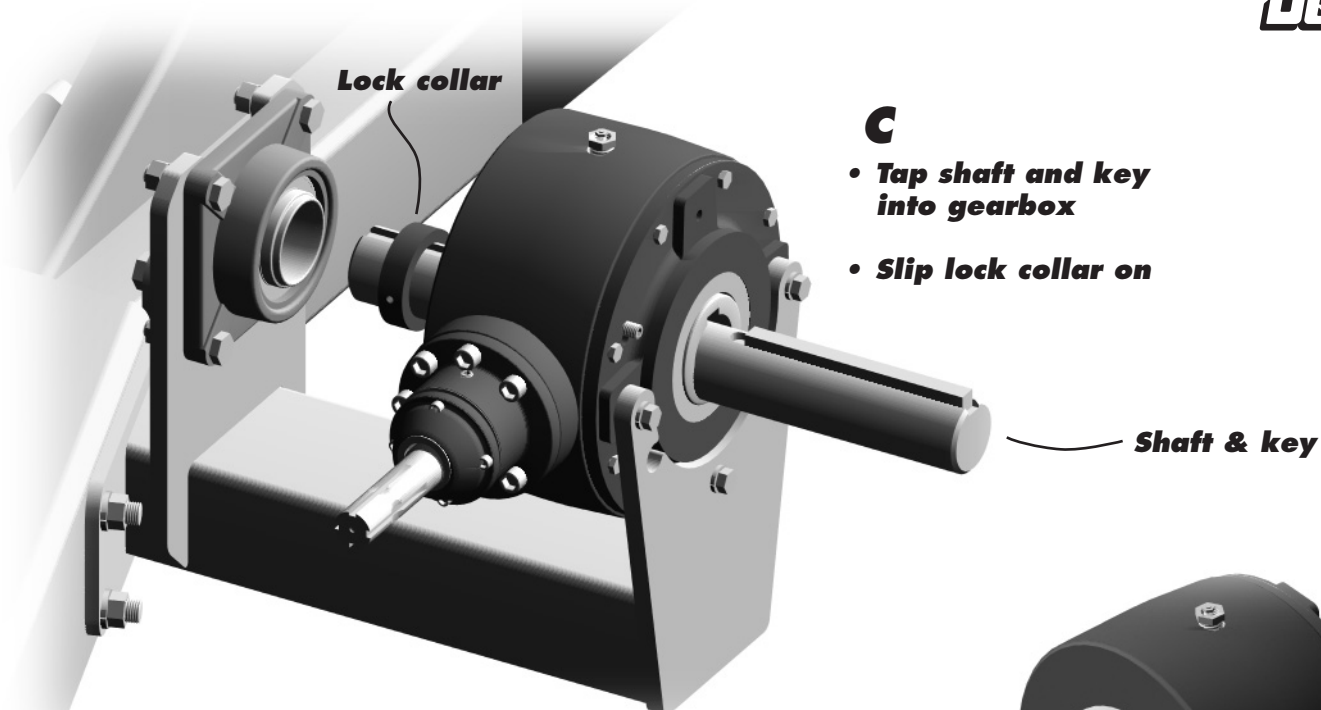
- **Attach gearbox holder to frame**



B

- **Attach gearbox & bearing to holder**
- **Clean out shaft hole thoroughly and lube**
- **Clean & lube keyway**
- **Check key for burrs & file**

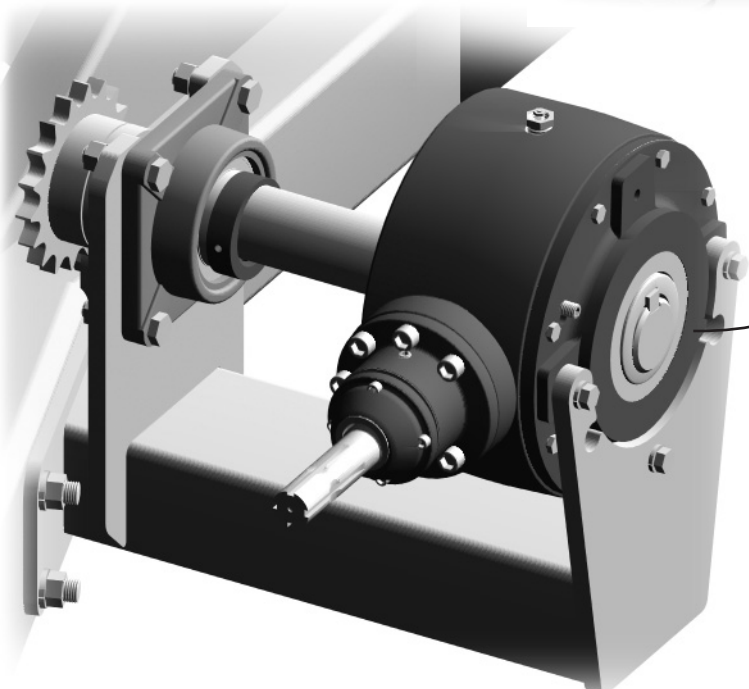
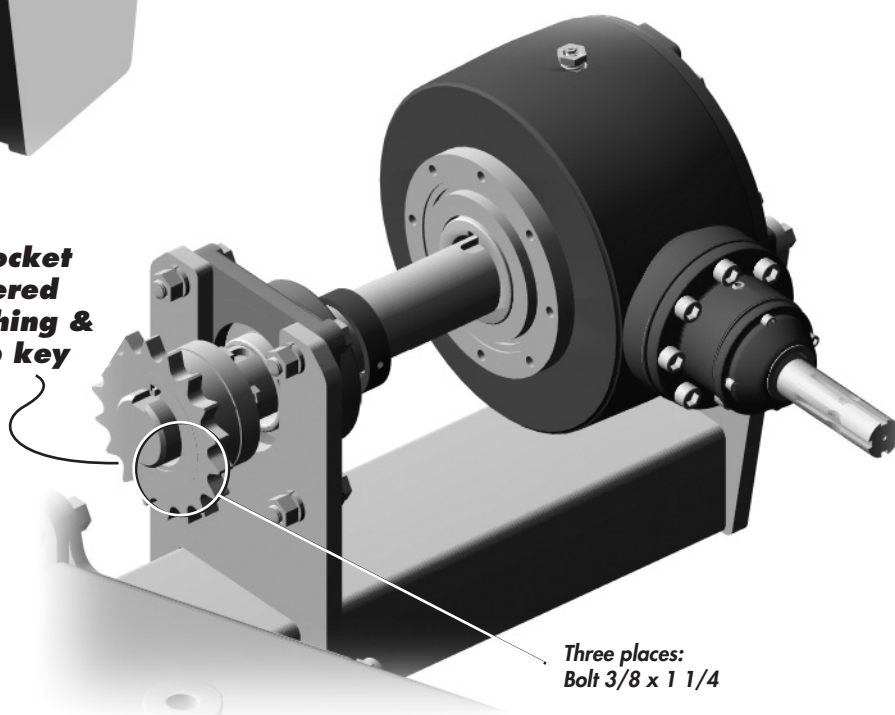




D

- Continue through bearing
- Slip sprocket, tapered bushing & stepped key over end of shaft
- Attach bolts loosely into bushing & sprocket

Sprocket tapered bushing & step key



E

- Tap shaft/key flush with outside of gearbox

Degelman

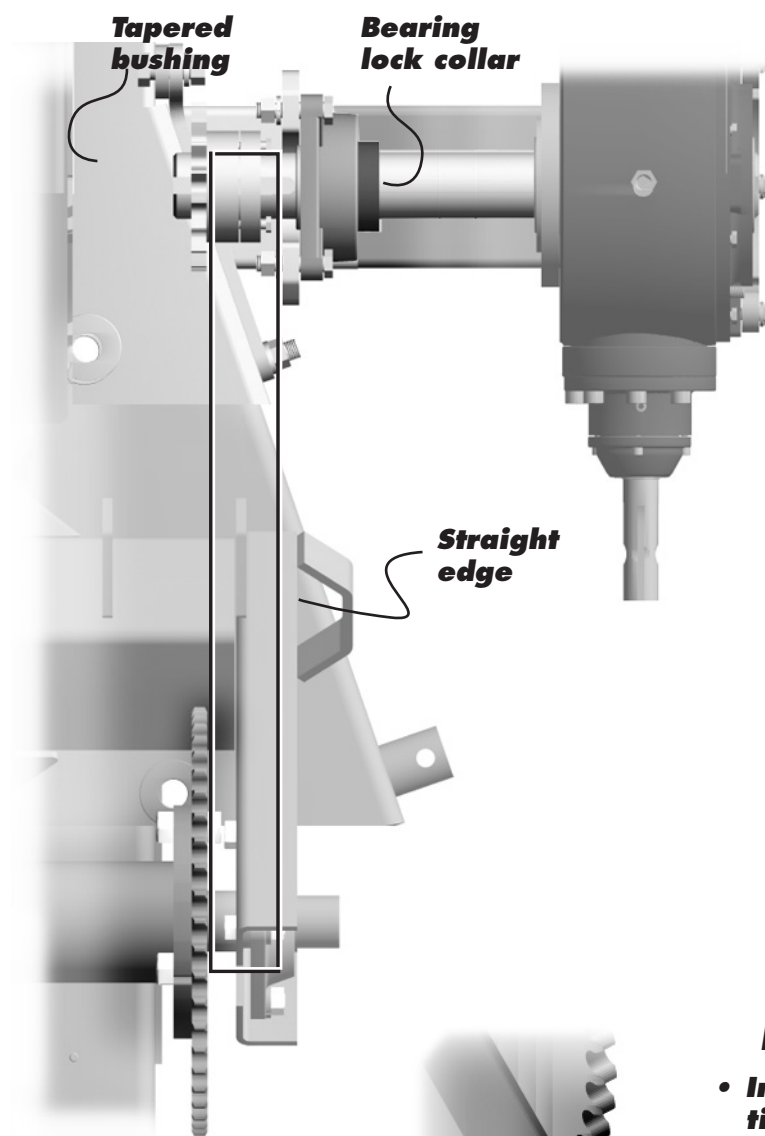
signature®

6000

7200

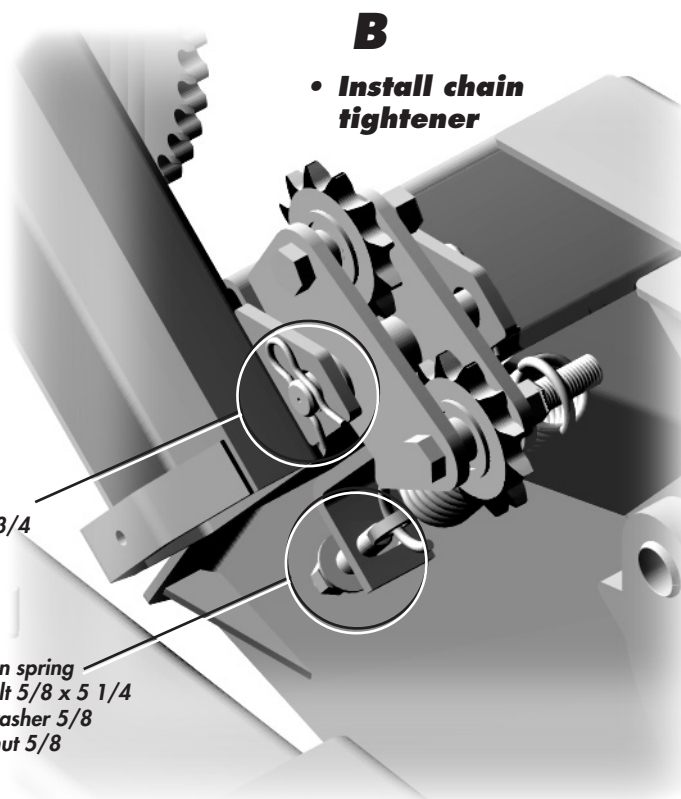
142584

PTO Drive installation



A

- Align the two sprockets with a straight edge
- Tighten the bolts on the tapered bushing to fix the position
- Tighten bearing lock collar

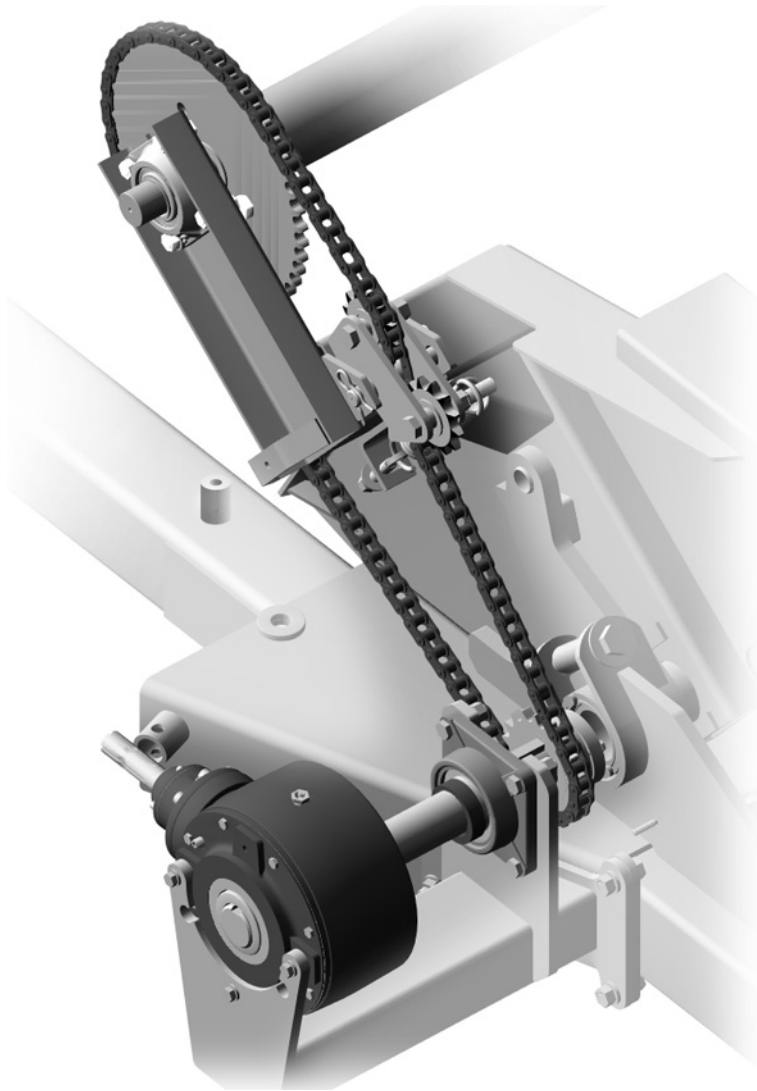


B

- Install chain tightener

Pin 5 5/16
Hair pin 2 3/4

Tension spring
Eyebolt 5/8 x 5 1/4
Flat washer 5/8
Lock nut 5/8



C

- **Run chain around sprockets & through chain tightener**
- **Join with connector link**

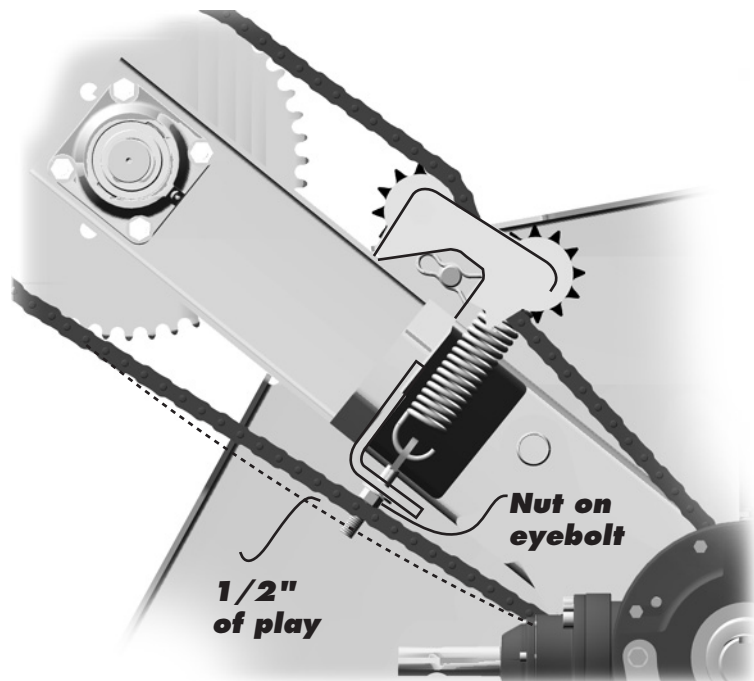
D

- **Adjust chain tightener nut on eyebolt to allow 1/2" slack**

TORQUE



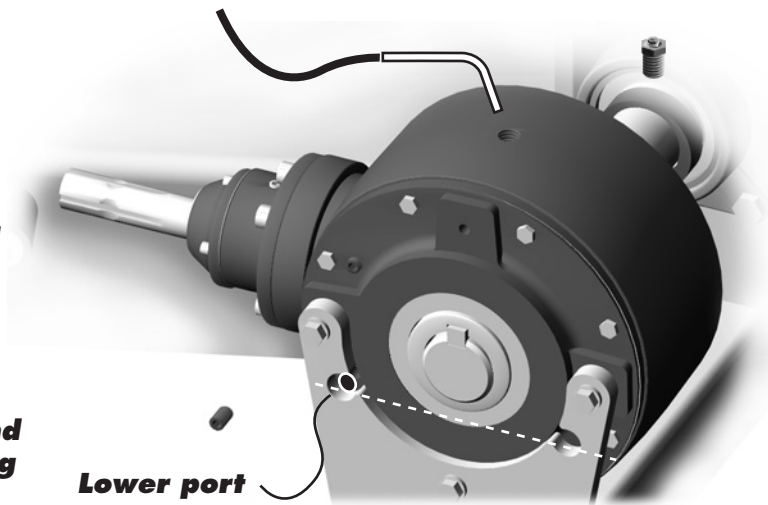
all hardware



PTO Drive installation

A

- Fill with gearbox oil
 SAE #90 level with
 lower port
- Replace port plugs
- Install relief vent and
 top port reducer plug



B

- Attach pillow
 block bearing &
 holder
- Replace standard
 hitch with offset
 hitch

Two places:
 Bolt 1/2 x 2
 Flat washer 1/2 (2)
 Lock washer 1/2
 Nut 1/2

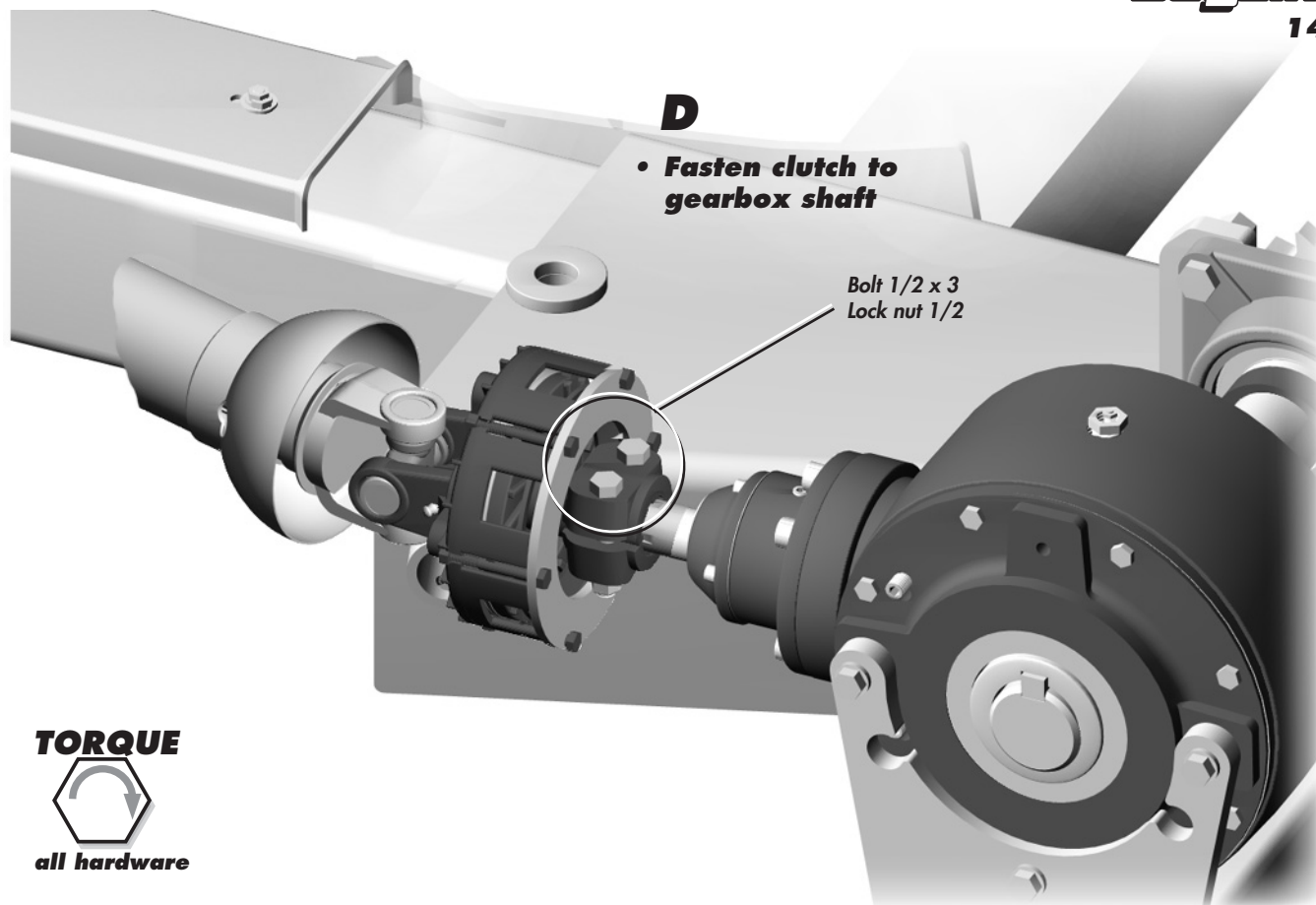
Two places:
 Nut 3/4
 Lock washer 3/4

8"

**Offset
 hitch**

C

- Slip end of long
 slider shaft into
 bearing



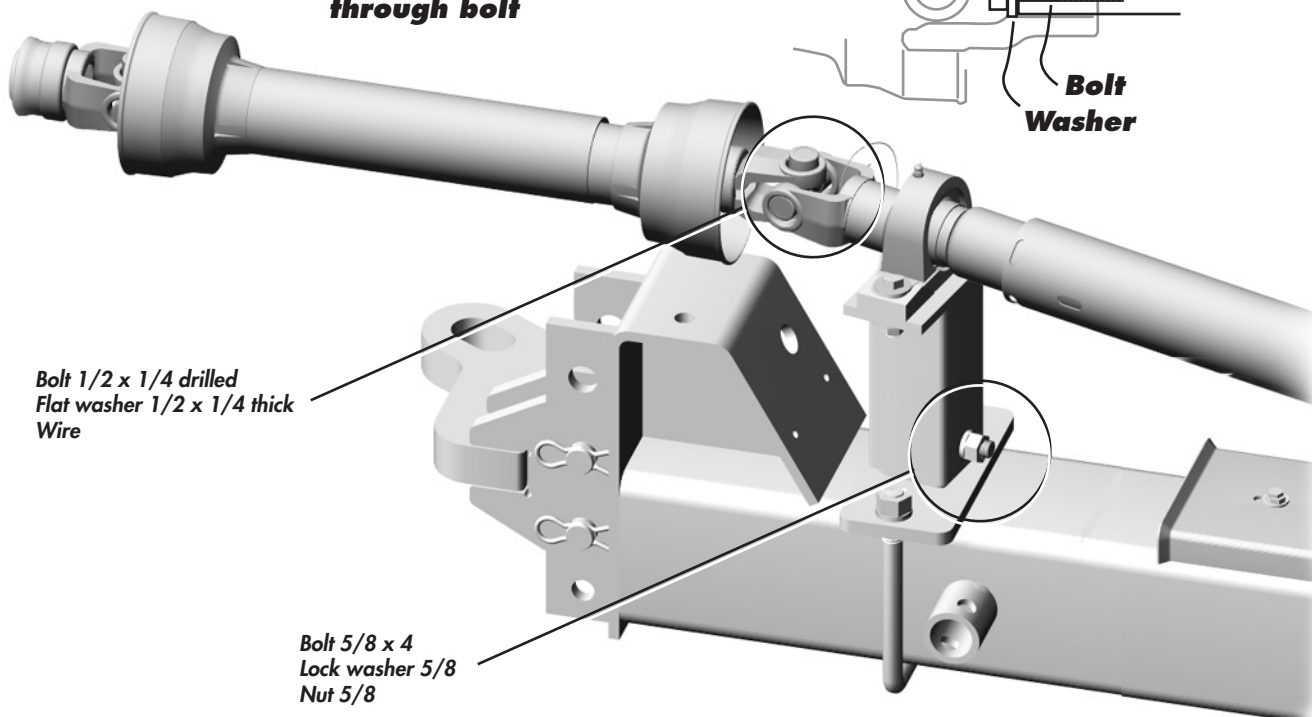
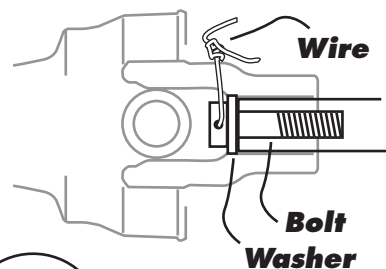
TORQUE



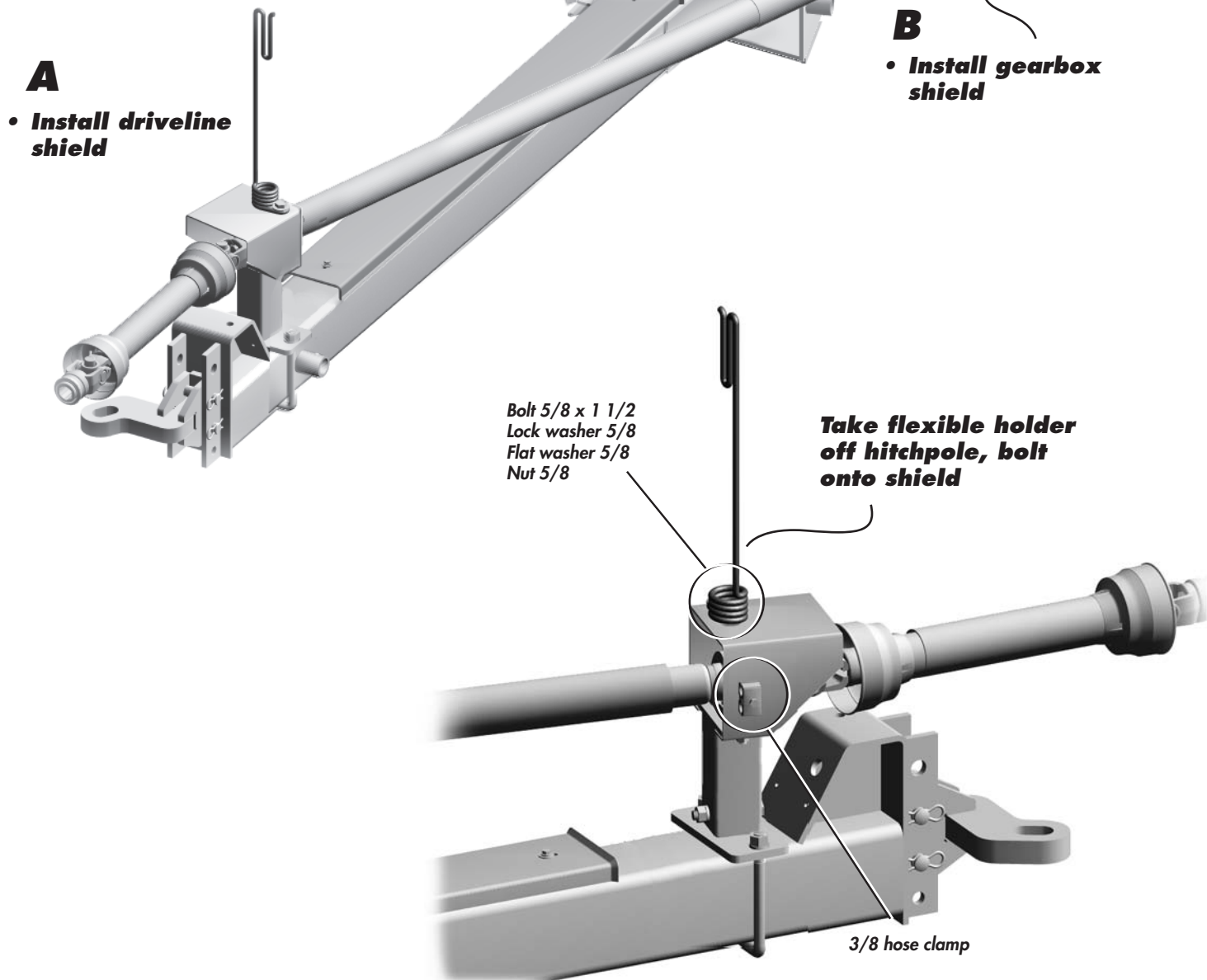
all hardware

E

- Install crossjoint into yoke of small slider shaft
- Fasten bolt and washer to hold, tie and twist wire through bolt

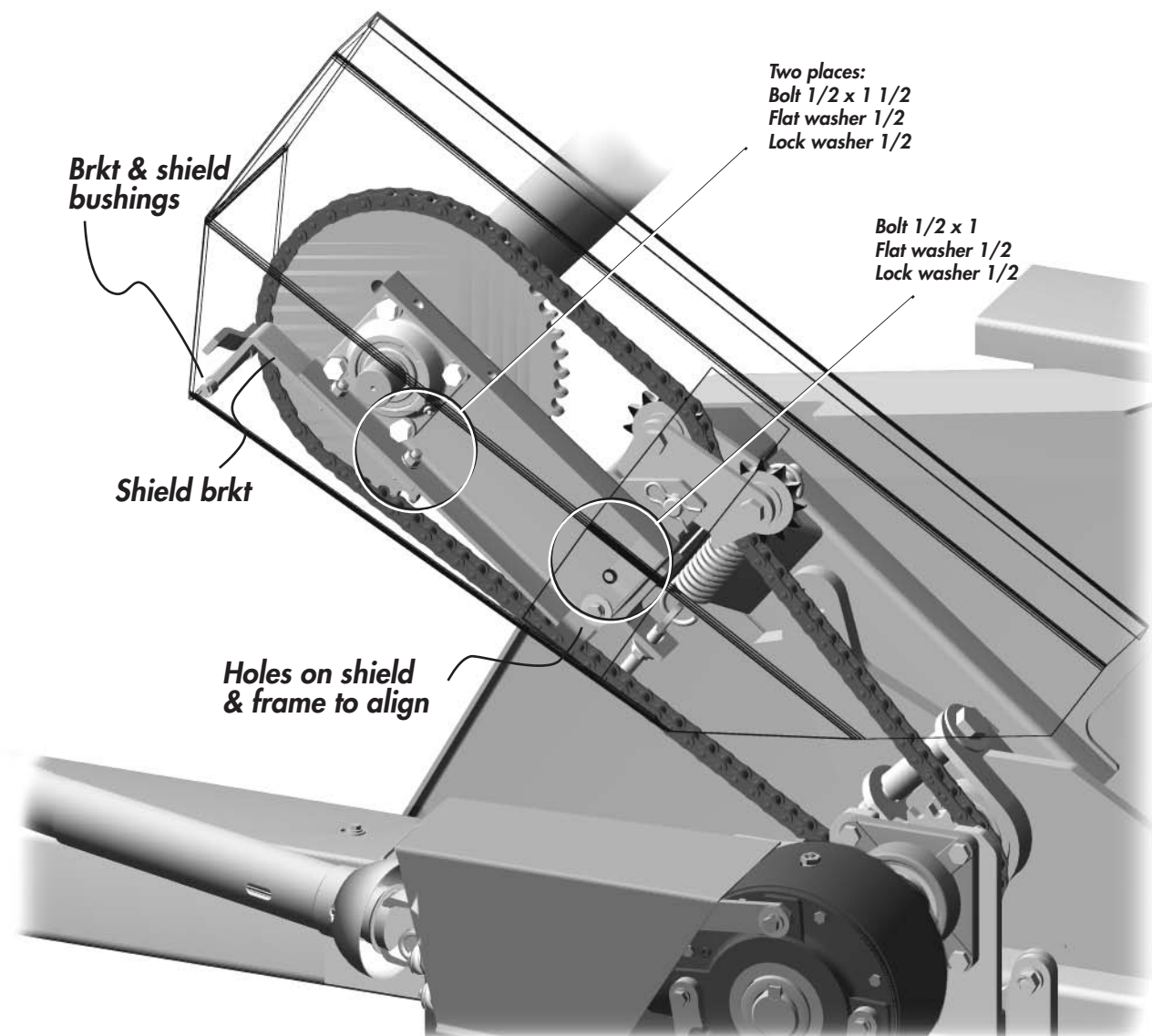


**PTO Drive
installation**



C

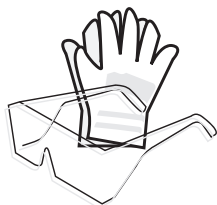
- Loosely bolt on shield brkt's onto reel support frame
- Fit brkt & shield's bushings and bolt
- Align holes on shield & frame & install bolt
- Tighten shield brkt



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.



HYDRAULIC

Relieve pressure when disconnecting or generally working on hydraulics.

Do not make makeshift repairs to hydraulic system. Do not use tape.

When working around hydraulic systems make sure all fittings are tight and components are in good repair.

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 and can cause serious injury.

Safety

KILLED, INJURED or SAFE? YOUR CHOICE



JAMMED ROCK

Use a long pole to dislodge stuck material from paddles or grill. Pressure in hydraulics and tension in springs can cause paddles to kick back if they are jammed

BEFORE WORKING ON MACHINE

- Lower grill
- Turn tractor off
- Set hydraulic controls to down position
- Remove ignition key
- Put on park brake
- Make sure all parts have stopped moving

BEFORE OPERATING MACHINE

- Check that all hardware & fittings are tight and not broken
- Keep all parts clean
- Replace worn or damaged parts
- Remove foreign objects from machine

WHILE OPERATING

- Stay well back from machine when operating. Rocks can come flying out of box
- Turn to the left when turning. Turning to the right puts you in the line of fire of flying rocks
- Do not operate machine or raise hopper box on steep slopes
- Keep hands, hair, loose clothing away from all moving and rotating parts

DO NOT MODIFY EQUIPMENT

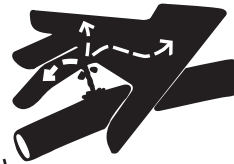
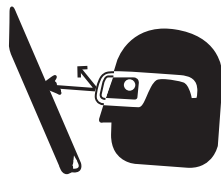
- Keep all shields and guards in place
- Don't try any makeshift repairs

OPERATORS & OTHERS

If you do not have a cab on your tractor wear a seat belt. Falling off a tractor and into the path of pull type equipment can be fatal.

- Do not have any riders with you in the tractor
- Keep people away from vicinity of machine when in operation, especially children

HAZARDS

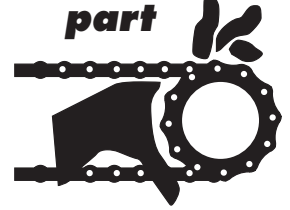


High pressure fluid

Deegelman
142584

**WEAR PROTECTIVE GEAR
DO NOT TEST FOR LEAKS
WITH HAND**

Rotating part



KEEP SHIELDS ON

Jammed paddle

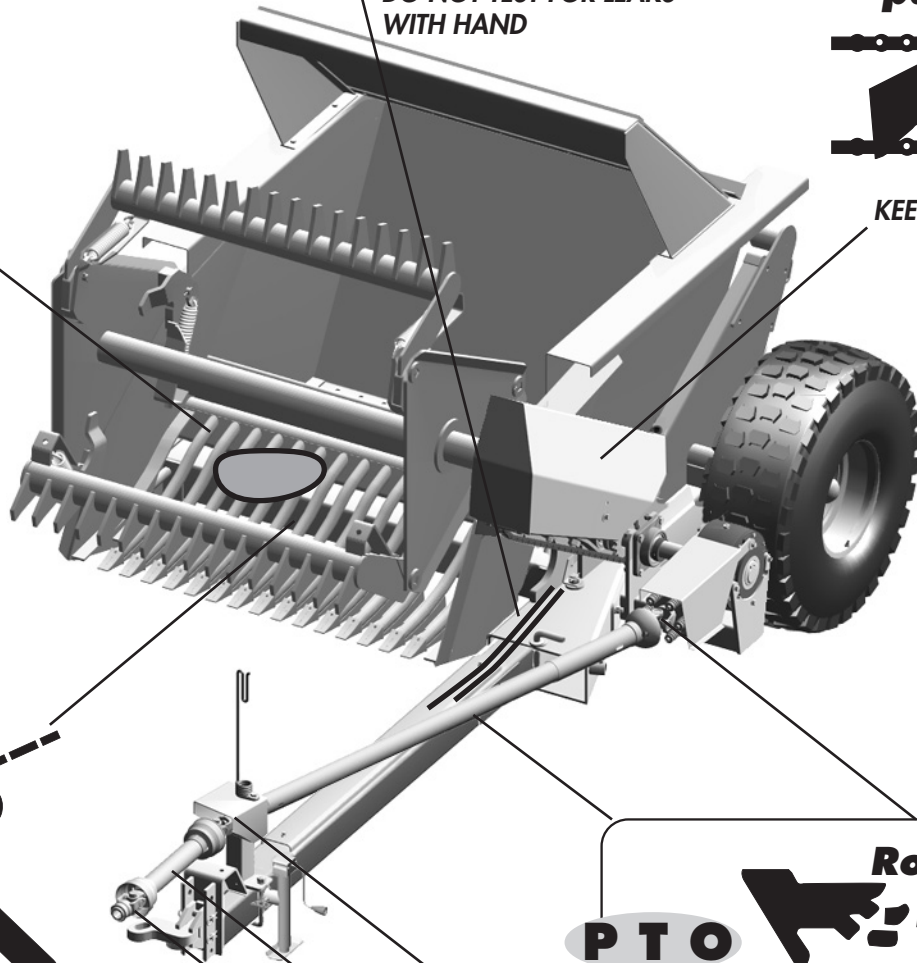


**USE POLE TO PRY OUT
STUCK ROCKS**

Thrown rock



- KEEP CLEAR OF MACHINE ESPECIALLY IN FRONT
- ROCKS CAN ALSO BOUNCE SIDWAYS
- DON'T OVERFILL



PTO

Rotating part



Rotating driveline



KEEP SHIELDS ON

TRANSPORTING



- ✓ Use drawbar with mechanical retainer & safety chain
- ✓ Use safety lights
- Use hazard lights on tractor
- ✓ Make sure transport pin is in place on grill
- Clean SMV sign and reflectors
- ✓ Travel at a safe speed



Record your serial number & model

- ☐ **6000 or** ☐ **Hydraulic or**
☐ **7200** ☐ **PTO**



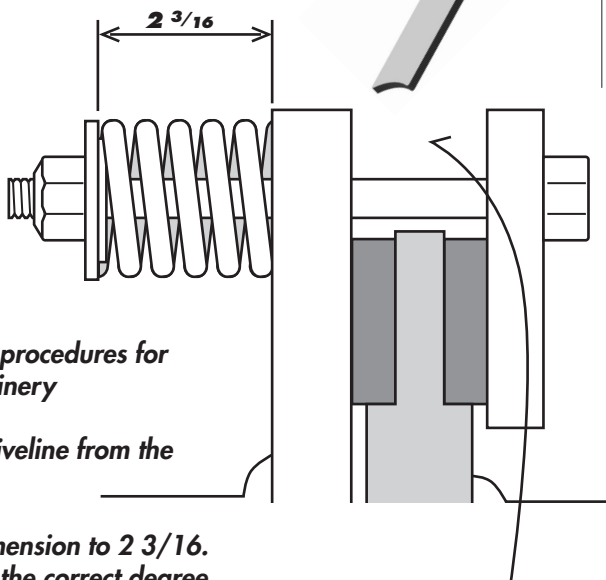
**All hardware; Hex head,
 Plated , Gr.5 UNC
 Hoses; 3/8,
 ends c/w 3/4 JIC female swivel
 Unless stated otherwise**



**TIRE
 PRESSURE; 36 psi**

**For those with
 adjustable
 clutches**

PTO



- Follow the safety procedures for working on machinery
- Disconnect the driveline from the tractor
- Set the spring dimension to 2 3/16. This will give you the correct degree of friction on a new machine
- As the plates wear out this dimension will have to be reduced to achieve this same degree of friction

IMPORTANT

- Be as accurate a possible. 1/64 will make a 15% difference in torque. Make sure you cross tighten gradually.

If your picker has sat for a while the friction clutch may have seized. Stick the clutch pry tool provided and crack the plates free HERE.

TORQUE



all hardware



Metric thread specs

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

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

**TORQUE
 SETTINGS**

Imperial Size	Grade 5	Grade 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	SAE 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	

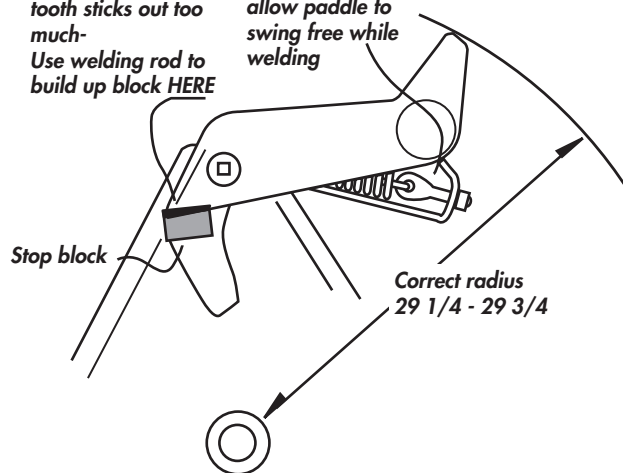
Hyd. fitting

Size		
3/4	75	ft lb
7/8	90	

REEL STOP BLOCK WEAR

Stop block gets worn down then tooth sticks out too much- Use welding rod to build up block HERE

Remove eyebolt to allow paddle to swing free while welding



- ✓ Check & tighten
- ✓ Check
- ⬆ Lube

8 hr

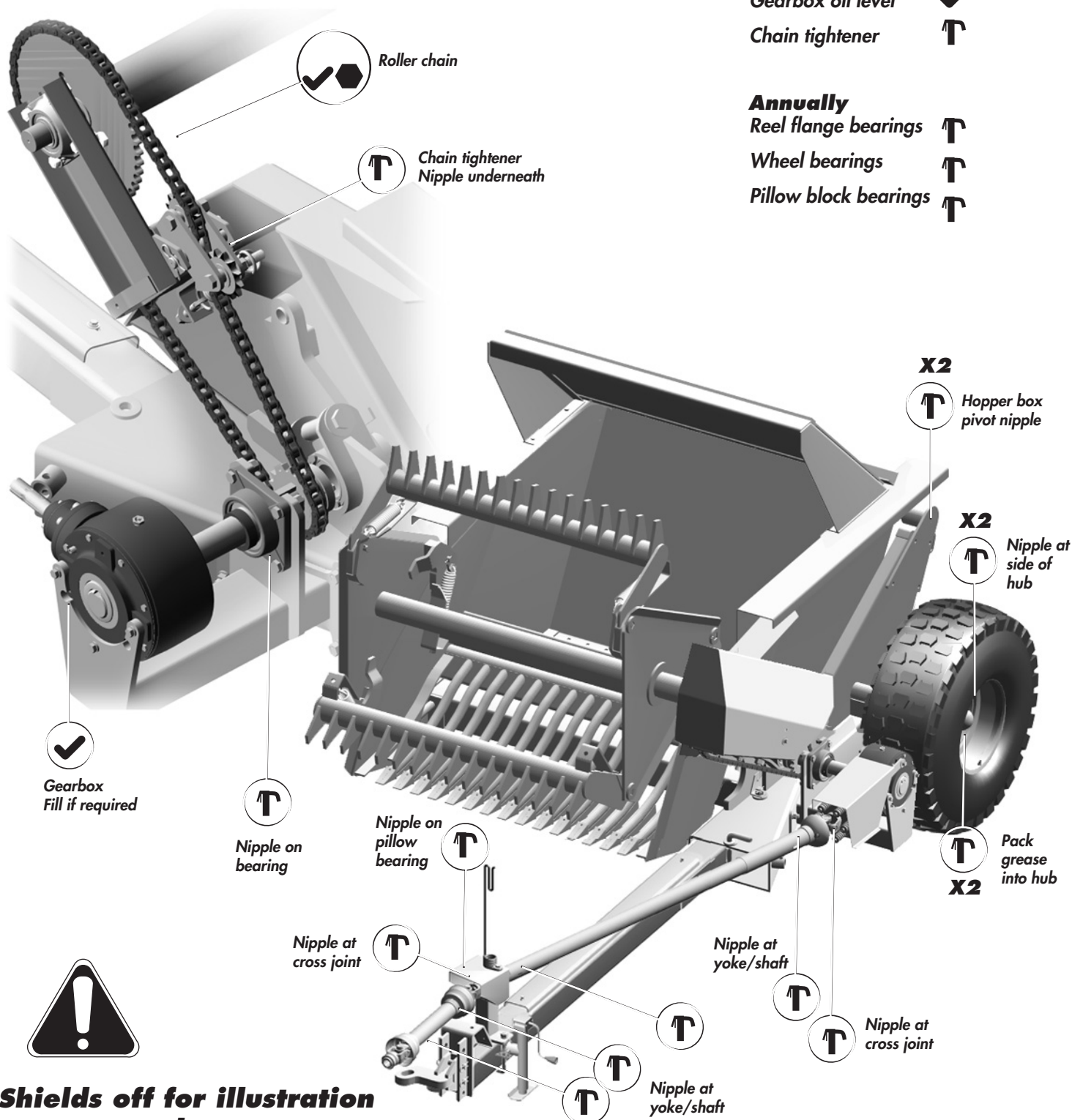
- PTO driveline ⬆
- Hopper box pivots ⬆
- Roller chain ⬆ ✓

25 hr

- Gearbox oil level ✓
- Chain tightener ⬆

Annually

- Reel flange bearings ⬆
- Wheel bearings ⬆
- Pillow block bearings ⬆



Shields off for illustration purposes only- DO NOT REMOVE SHIELDS!!

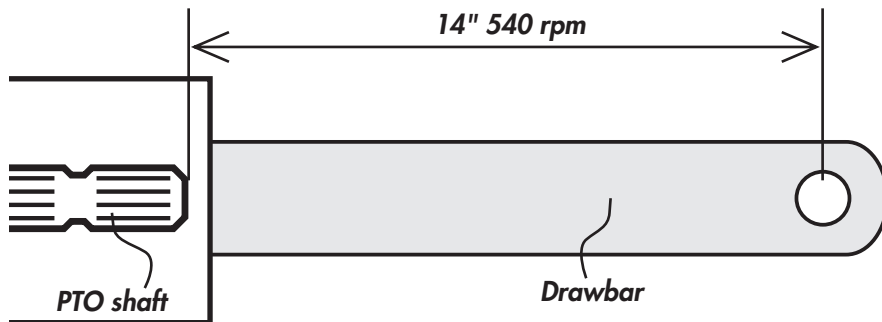
Your tractor

**MINIMUM TRACTOR 70 hp;
100 hp for hilly conditions**

Tractors with duals aren't recommended. The right hand tire pushes the rocks into the ground.

IMPORTANT

Do not use a tractor equipped with a PTO shaft adapter to prevent mismatching of PTO speeds and over telescoping of drivelines.



Maintenance; first time & ongoing

A Break-in

- Lubricate all grease points
- Check all bolt tightness

B After 2 hr of operation

- Retorque wheel bolts
- Check all hardware tightness
- Check all hydraulic connections

C After 10 hr of operation

- Repeat step B
- Go to SERVICE SCHEDULE

D After 100 hr of operation

- Drain the oil from the gear box
- Replace with SAE85W90 gear oil
- Replace oil again after 2500 hr

Before using each day

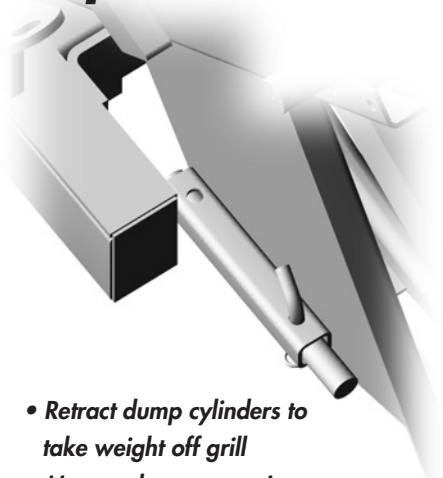
- Ensure tractor is properly attached to hitchpole
- Clean hyd. couplers before hooking up
- Ensure the PTO driveline is: **PTO**
 - Secure at both ends
 - Rotates freely
 - Telescopes easily
- Remove any debris in machine

CHECK:

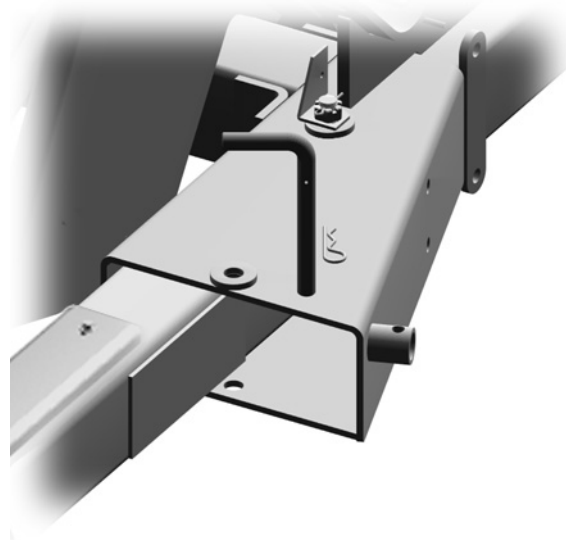
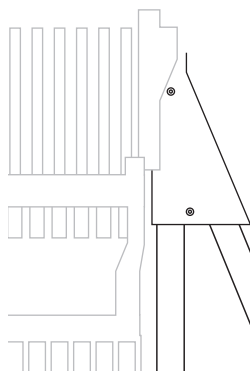
- Hydraulics for tightness & leaks
- All moving parts, remove debris
- Oil level in gear box **PTO**
- Oil level in tractor's hyd. reservoir
- That all shields are secure
- Tire pressure
- Chain & sprockets for tension & alignment

Hitchpole into field position

Put grill in field position



- Retract dump cylinders to take weight off grill
- Move red transport pin forward
- Replace pins



- Take out hitchpole transport pin
- Swing hitchpole into field position
- Replace pin

Transport

Field

PTO

Connect the drivelines

- Check that the PTO driveline telescopes easily and the shield rotates freely
- Attach the driveline to tractor by:
 - Retracting the locking collar
 - Slide the yoke over the shaft
 - Push yoke until lock collar clicks into position



- Always park on a level surface clear of debris and obstacles

Connect the hyd lines

- Clean off couplers on hose & tractor with cloth
- Remove plugs & insert couplers
- Ensure pressure & return lines are matched up on same valve bank

Turn jack sideways for field

Ensure hitchpole is parallel to ground, adjust with jack

Adjust pin in hitch clevis to set pole height

Check that there is at least 6" height

This will provide adequate clearance for hills

OPERATIONS

REEL SPEED

The purpose of the reel is to sweep the rocks from the front of the grill into the hopper box. The spring loaded paddles should keep the grill framework clear of rocks.



There is a danger that the paddles will catch the rocks and throw them forward if the reel speed is too fast.

GROUND SPEED

Ground speed varies according to;

- Rock size & density
- Spot picking or windrowing

Experience will teach you the correct combination of forward travel speed and reel RPM to suit field conditions:

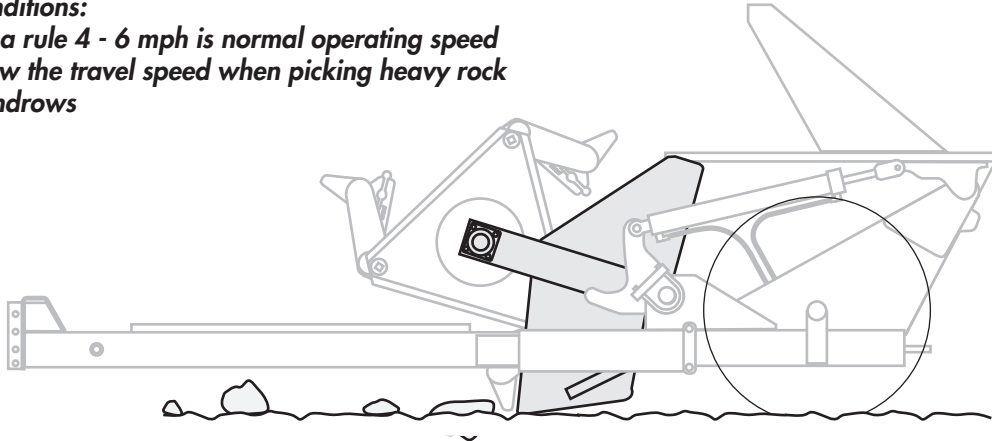
As a rule 4 - 6 mph is normal operating speed
Slow the travel speed when picking heavy rock
windrows

Spot picking

Best speed; 5% to 40% faster than ground speed.

Windrow picking

To ensure grill keeps clear of rocks reduce ground speed.

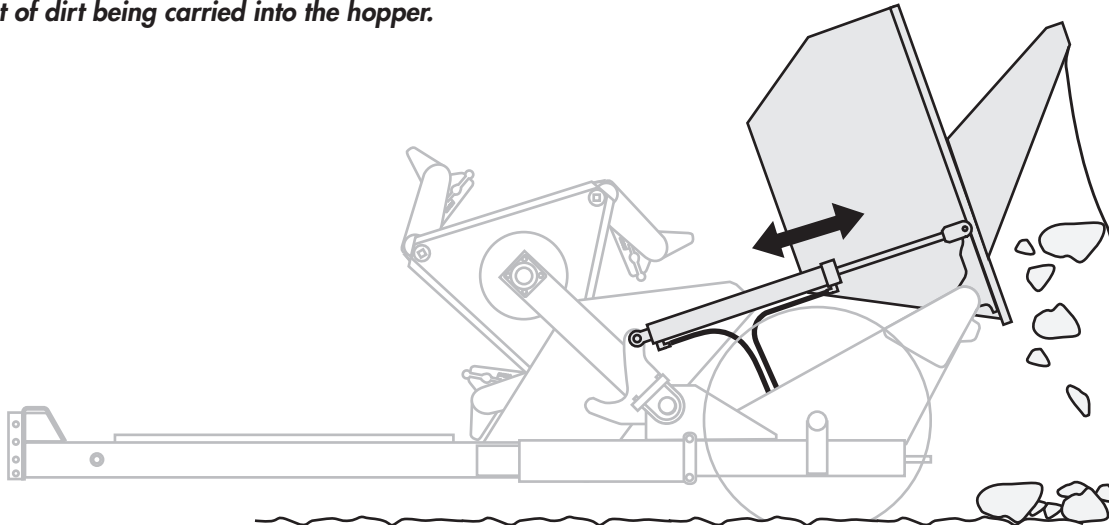


GRILL HEIGHT

The grill should be lowered to allow the front teeth to skim the ground surface. This will provide the best gathering angle and allow a minimum amount of dirt being carried into the hopper.

Buried rocks

Do not use the grill to pry out buried rocks. Grill teeth striking a buried rock will shock the machine and damage it.



DUMPING

Empty box when full by extending dump cylinders. Do not let the box get so full as to overflow onto the grill.

When backing up with a full load switch the hitchpole back to transport. This will prevent damage to the frame.

Make sure you are on level ground when dumping. Raising the box when the machine is tilted at an angle could be dangerous or damage the machine

The rock picker can pick rocks from 1 3/4 to 24"

JAMMING

Small rocks and debris can get stuck between the grill, paddle or frame jamming the reel.

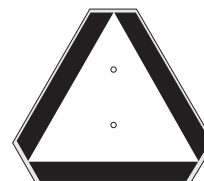
Unplugging

- Lower grill to ground
- Stop tractor engine
- Place controls in neutral
- Relieve pressure on hydraulics
- Set park brake
- Remove ignition key
- Use a long pry pole to dislodge material

- **NEVER USE HANDS**
- **NEVER GET YOUR HEAD OR ARMS, INTO MACHINE**

HYD

- You might be able to unplug a minor jam by reversing the rotation of the reel. First go to the float position then reverse. If your tractor doesn't have float idle down then reverse. Going directly to reverse will damage your hyd. motor.



TRANSPORTING

- Clear the area of bystanders, especially small children
- Raise the grill to it's highest position by retracting the hopper box cylinders
- Position red transport pin back into transport position, hold with pins
- Lower the grill to rest on the transport pin
- Rotate hitchpole jack up out of the way
- Unpin hitchpole, jackknife back into forward transport position

TURNING

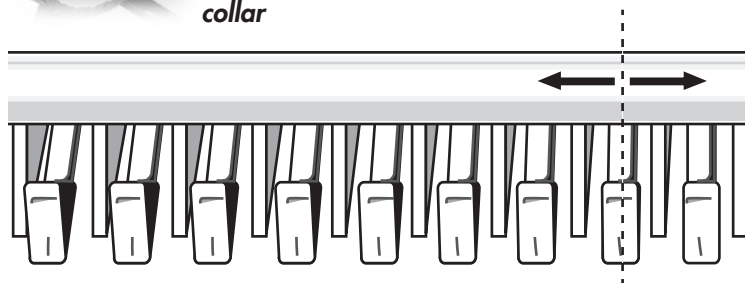
Turn to the left to keep yourself out of the path of flying rocks

Rocks can ricochet off to the side.
KEEP BYSTANDERS AWAY!

PADDLE ALIGNMENT



Keep grill & paddle teeth tracking down the centre.
To adjust loosen locking collar on reel bearing shift shaft & tighten





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 authorized 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 authorized 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 authorization 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.

