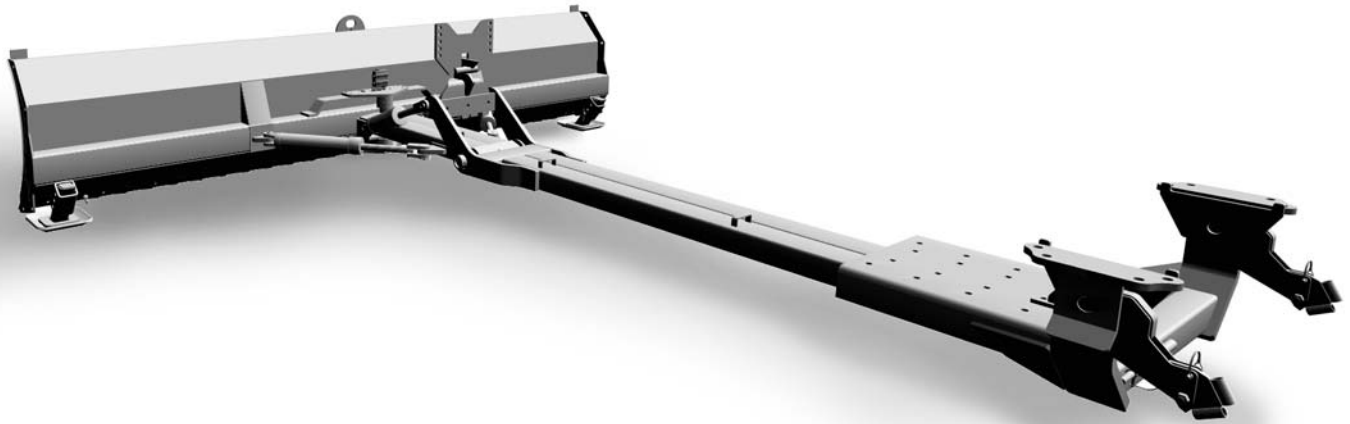


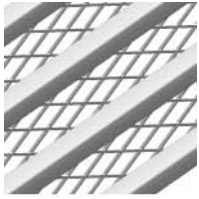
Deegelman
INDUSTRIES LTD.

46/57 **Dlock**[®]
dozerblade

John Deere 7600 - 7800
7610 - 7810
7610 TLS - 7810 TLS
Tractors



MANUAL
142020



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INDUSTRIES LTD.

46/57 **Dlock**[®]
dozerblade

John Deere 7600 - 7800
7610 - 7810
7610 TLS - 7810 TLS

Tractors



Blade, pivot frame	1
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Tractor fit-up, mounting	5
Operation, maintenance	9
Previous hydraulic system	10
Attachments	11
Safety, warranty	12



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

degeleman@degeleman.com

www.degeleman.com



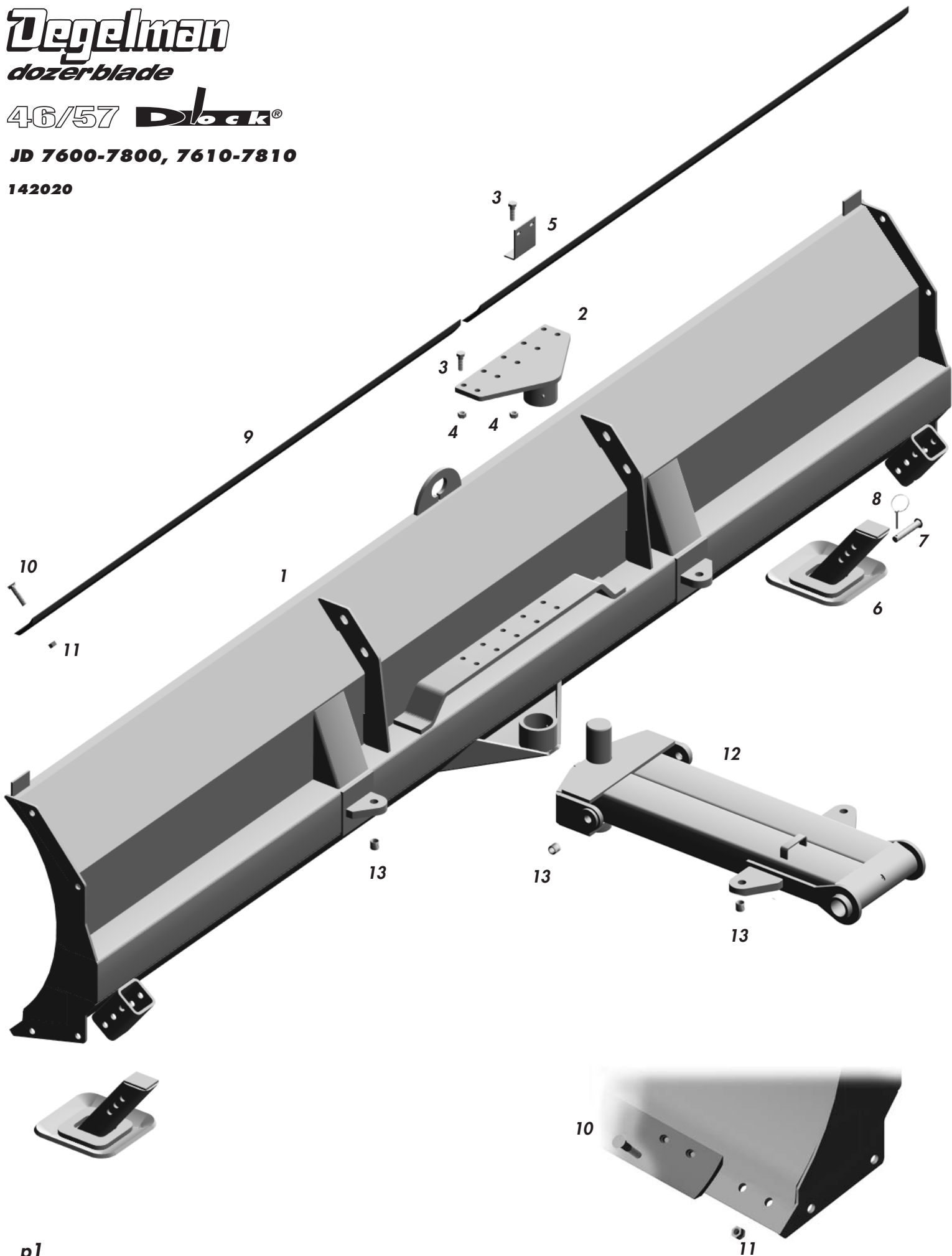
Degelman

dozerblade

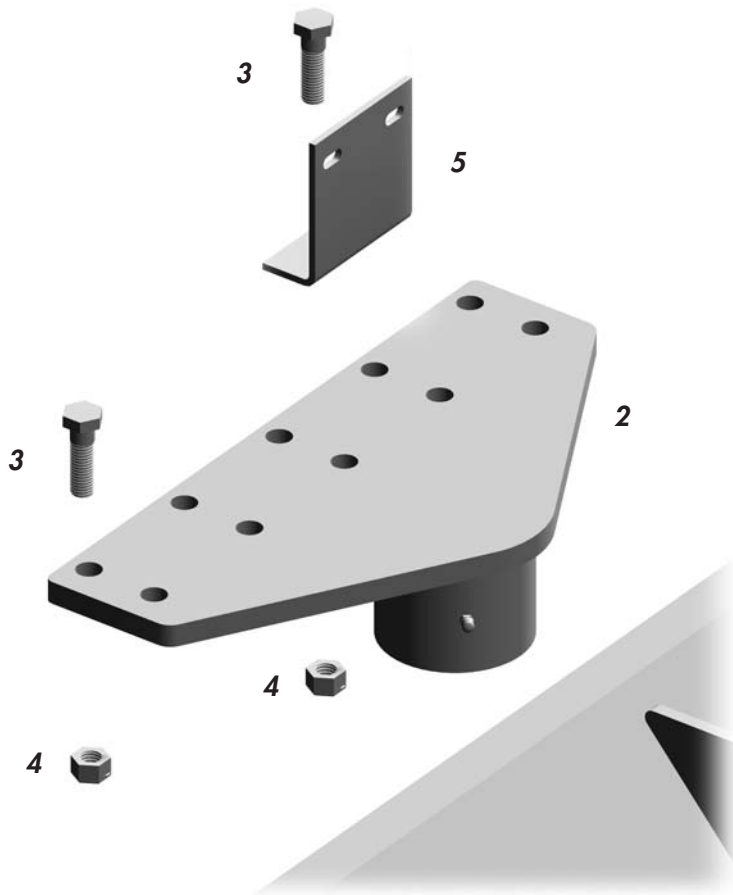
46/57 **Dlock**®

JD 7600-7800, 7610-7810

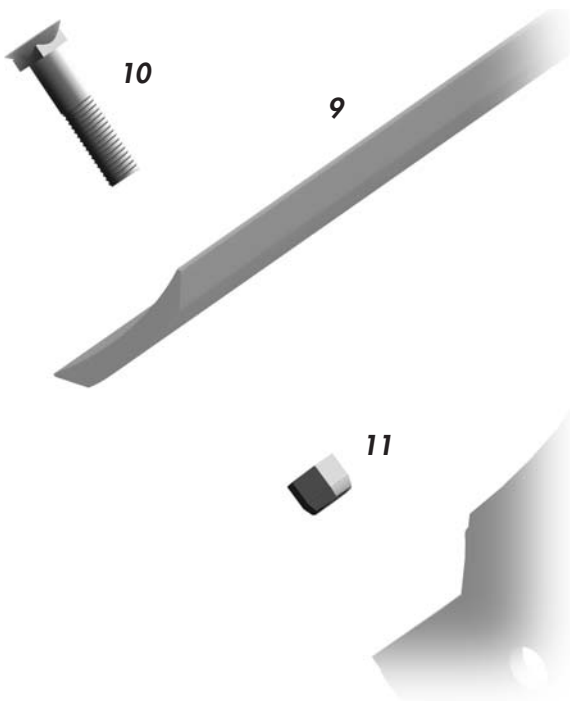
142020



p1



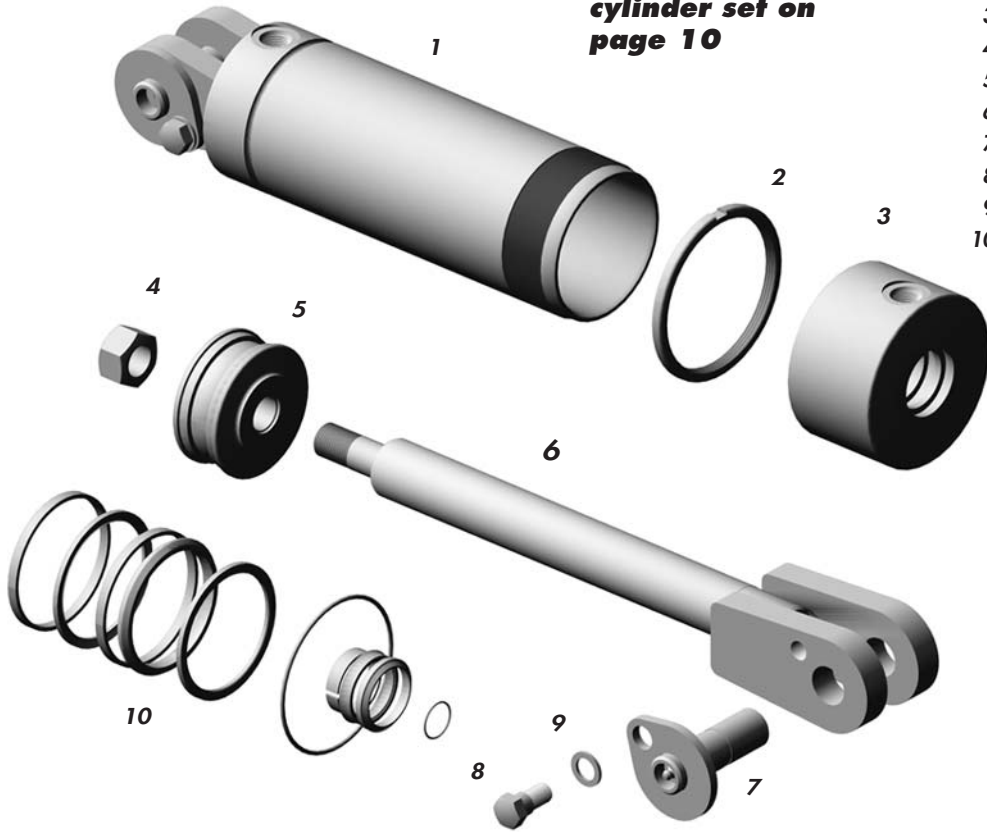
			Qty
1	778024	14ft 46/57 Dlock blade	1
	778003	12ft	1
	778002	10ft	1
	778001	9ft	1
2	778051	Angling cap	1
3	118795	Bolt 5/8 x 2 gr8	10
4	118447	Lock nut 5/8 grC	10
5	778127	Relief valve brkt	1
6	806001	Depth shoe	2
7	115402	Pin 4 1/8 lg	2
8	118901	Lynch pin 1 1/2 lg	2
9	116207	Cutting edge 7ft	2
	116206	6ft	2
	116210	10ft	1
	116209	9ft	1
10	118204	Plow bolt 5/8 x 2 1/4	as
11	118448	Lock nut 5/8 unitq	required
12	778056	Pivot frame 4600	1
13	117087	Wear bushing 1	6



Hydraulics

Previous
cylinder set on
page 10

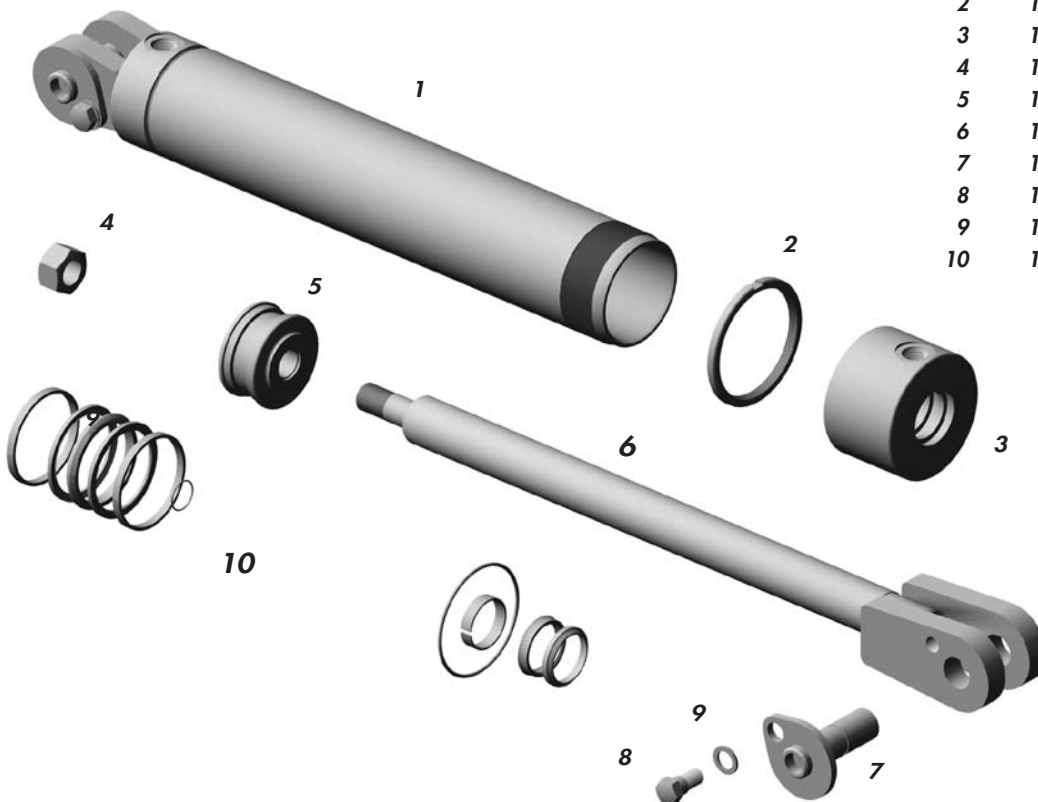
122731, 3 1/2 x 8 x 1 1/2 Lift cylinder



1	121687	Barrel	1
2	122658	Lock ring	1
3	122656	Open cap	1
4	118441	Lock nut 7/8 unf unitq	1
5	122663	Piston	1
6	122083	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	122522	Seal kit	2

780040 Lift hydraulic kit

122729, 3 x 16 x 1 1/2 Angle cylinder

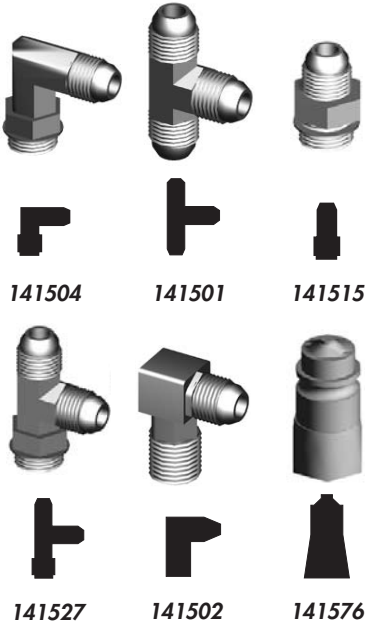
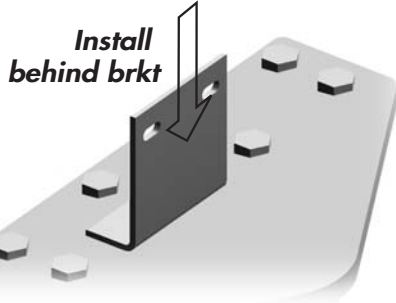
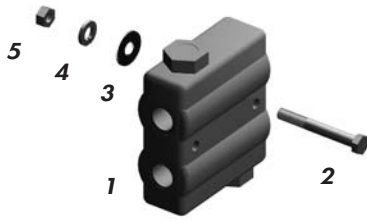


1	121671	Barrel	1
2	122558	Lock ring	1
3	122556	Open cap	1
4	118441	Lock nut 7/8 unf unitq	1
5	122563	Piston	1
6	122099	Rod & clevis	1
7	118930	Clevis pin	2
8	118796	Shld bolt 1/2 x 1 1/8	2
9	118924	Flat washer .591	2
10	122523	Seal kit	2

778040 Angle hydraulic kit

JD 7600-7800, 7610-7810

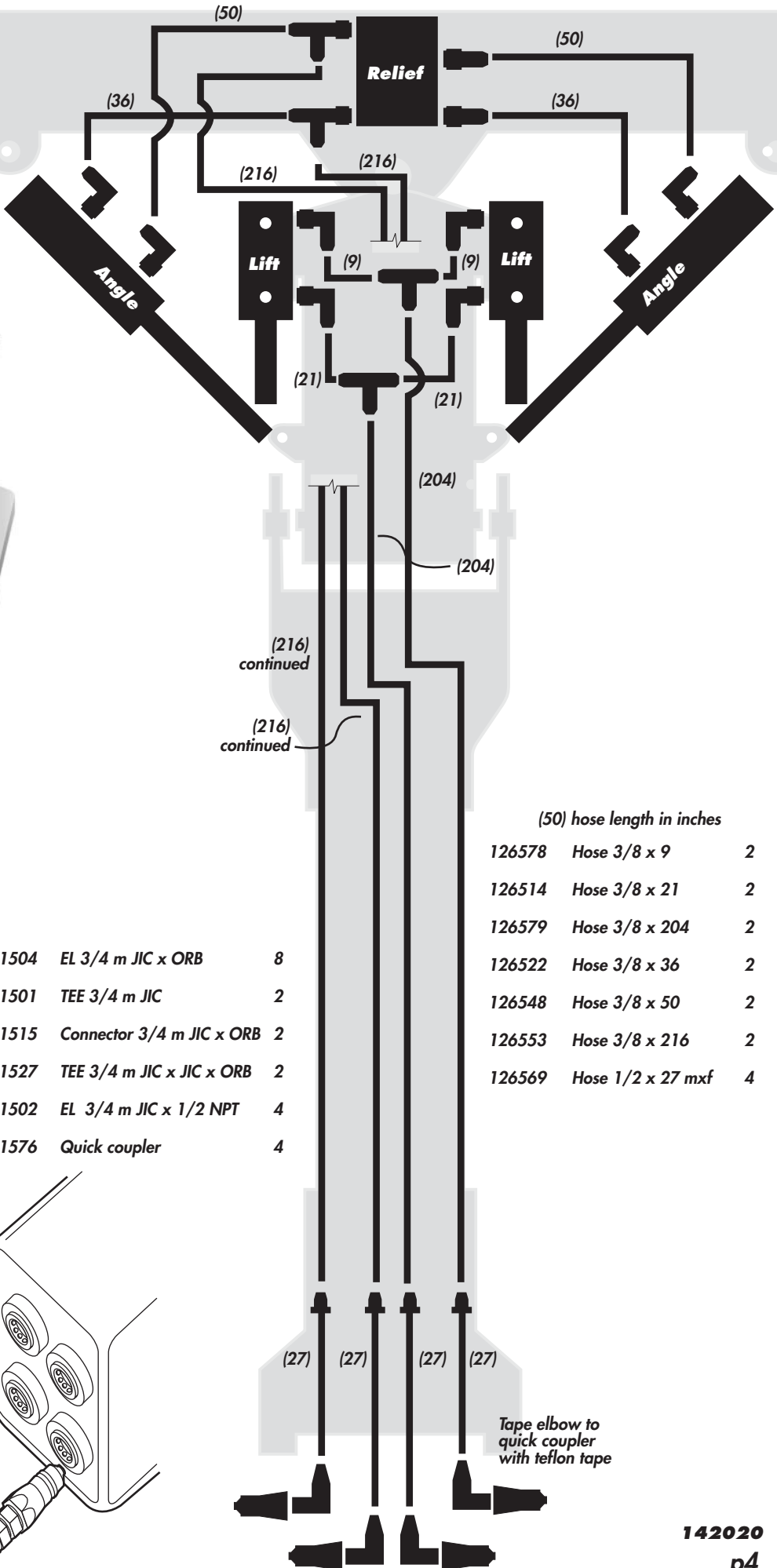
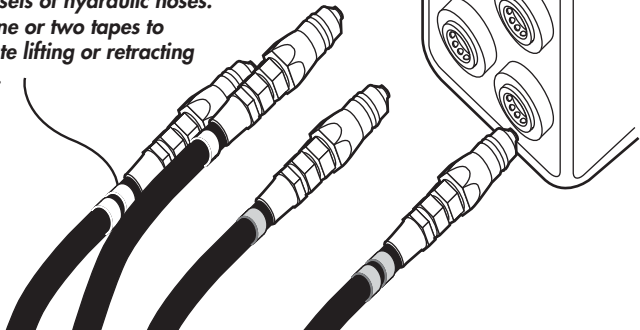
	Qty
1 141524 Relief valve	1
2 118105 Bolt 5/16 x 2 1/2	2
3 118538 Flat washer 5/16	2
4 118530 Lock washer 5/16	2
5 118427 Nut 5/16	2



141504	EL 3/4 m JIC x ORB	8
141501	TEE 3/4 m JIC	2
141515	Connector 3/4 m JIC x ORB	2
141527	TEE 3/4 m JIC x JIC x ORB	2
141502	EL 3/4 m JIC x 1/2 NPT	4
141576	Quick coupler	4

133091 Coloured hose markers, 2 packs

Use different coloured tape to mark sets of hydraulic hoses. Use one or two tapes to indicate lifting or retracting hoses.



(50) hose length in inches

126578	Hose 3/8 x 9	2
126514	Hose 3/8 x 21	2
126579	Hose 3/8 x 204	2
126522	Hose 3/8 x 36	2
126548	Hose 3/8 x 50	2
126553	Hose 3/8 x 216	2
126569	Hose 1/2 x 27 mxl	4

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46/57 **Block**[®] dozerblade

JD 7600-7800, 7610-7810

142020

Hardware

JD 7600-7800
use 7 & 4

JD 7610-7810
use 8 & 9

All 2WD

6 - Front Bracket for:
JD 7610-7810 TLS
JD 7710-7810 TLS IVT

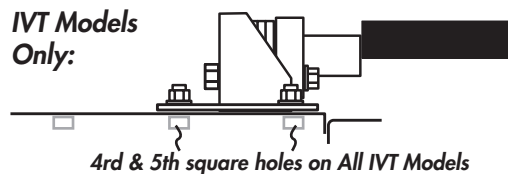
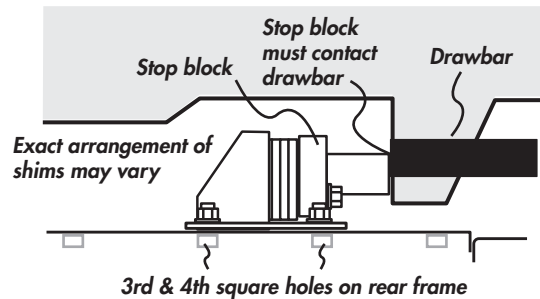
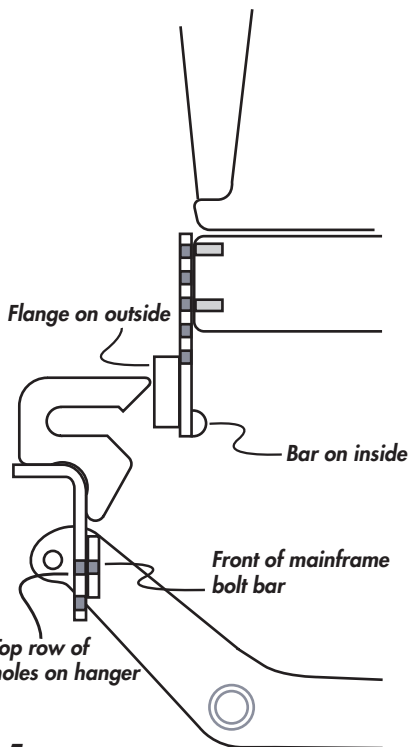
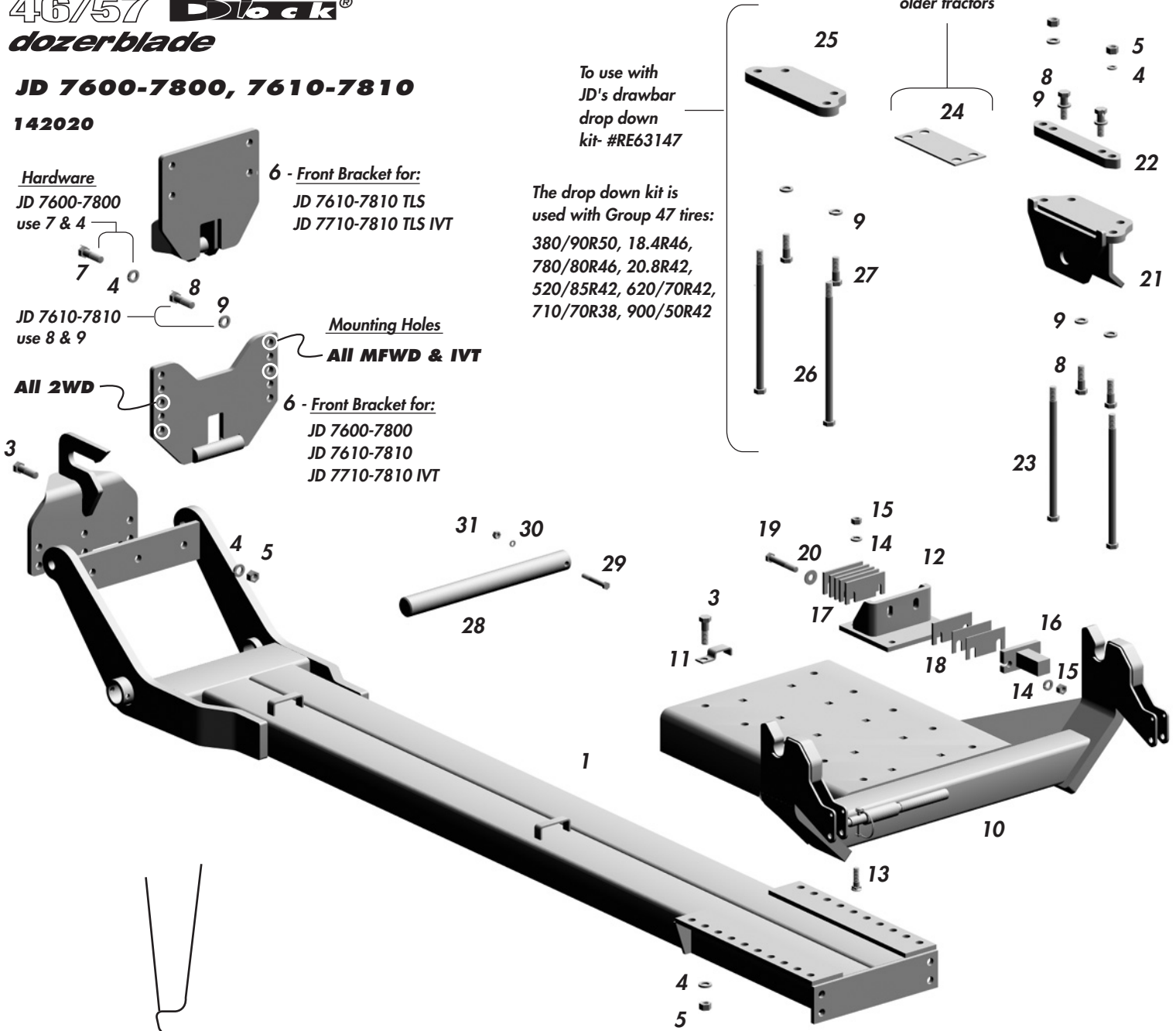
Mounting Holes
All MFWD & IVT

6 - Front Bracket for:
JD 7600-7800
JD 7610-7810
JD 7710-7810 IVT

To use with
JD's drawbar
drop down
kit- #RE63147

The drop down kit is
used with Group 47 fires:
380/90R50, 18.4R46,
780/80R46, 20.8R42,
520/85R42, 620/70R42,
710/70R38, 900/50R42

Used on some
older tractors



			Qty
1	779790	Main frame	1
2	780021	Front hanger	1
3	118743	Bolt 3/4 x 2 1/4	3
4	118509	Lock washer 3/4	3
5	118410	Nut 3/4	3
6	Front brkt		
	780025	JD 7600-7800	1
or	781841	JD 7610-7810 TLS	1
For JD 7600-7800			
7	118047	Bolt 3/4 x 2 1/2	4
4		Lock washer 3/4	4
For JD 7610-7810			
8	118143	Bolt M20 x 60	4
9	118551	Lock washer M20	4
10	780530	Rear frame	1
11	778120	Hose clip	2
3		Bolt 3/4 x 2 1/4	6
4		Lock washer 3/4	6
5		Nut 3/4	6
12	778081	Stop block holder	1
13	118221	Carriage bolt 5/8 x 2	4
14	118508	Lock washer 5/8	4
15	118407	Nut 5/8	4
16	778510	Stop block	1
17	778090	Shim 6mm	6
18	778092	Shim 3mm	2
19	118094	Bolt 5/8 x 4	2
20	118514	Flat washer 5/8	2
14		Lock washer 5/8	2
15		Nut 5/8	2
21	779891	Axle bracket	2
22	778966	Bolt bar	2
23	118758	Bolt 3/4 x 14	4
4		Lock washer 3/4	4
5		Nut 3/4	4
8		Bolt M20 x 60	8
9		Lock washer M20	8

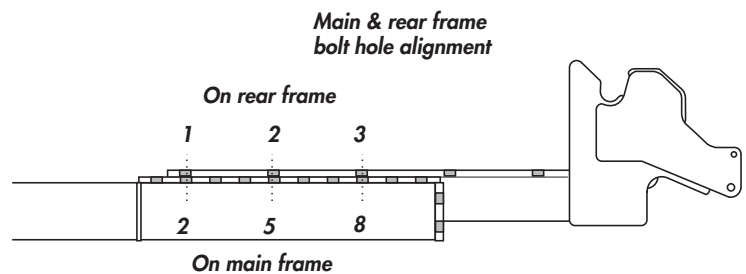
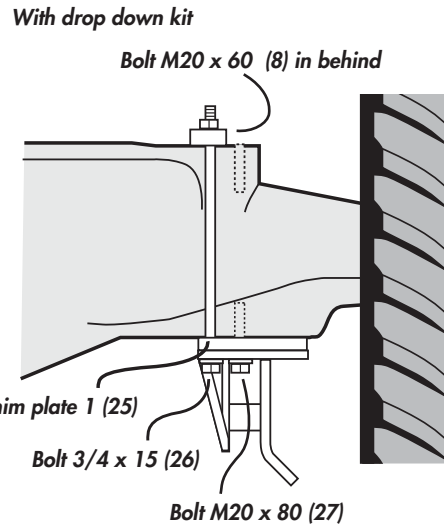
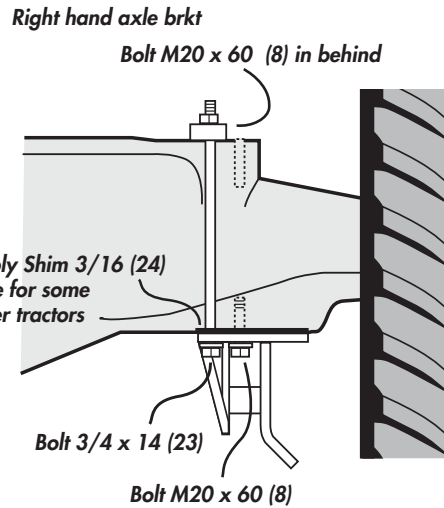
Some older tractors

24	778949	Shim 3/16	2
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With drawbar drop down kit

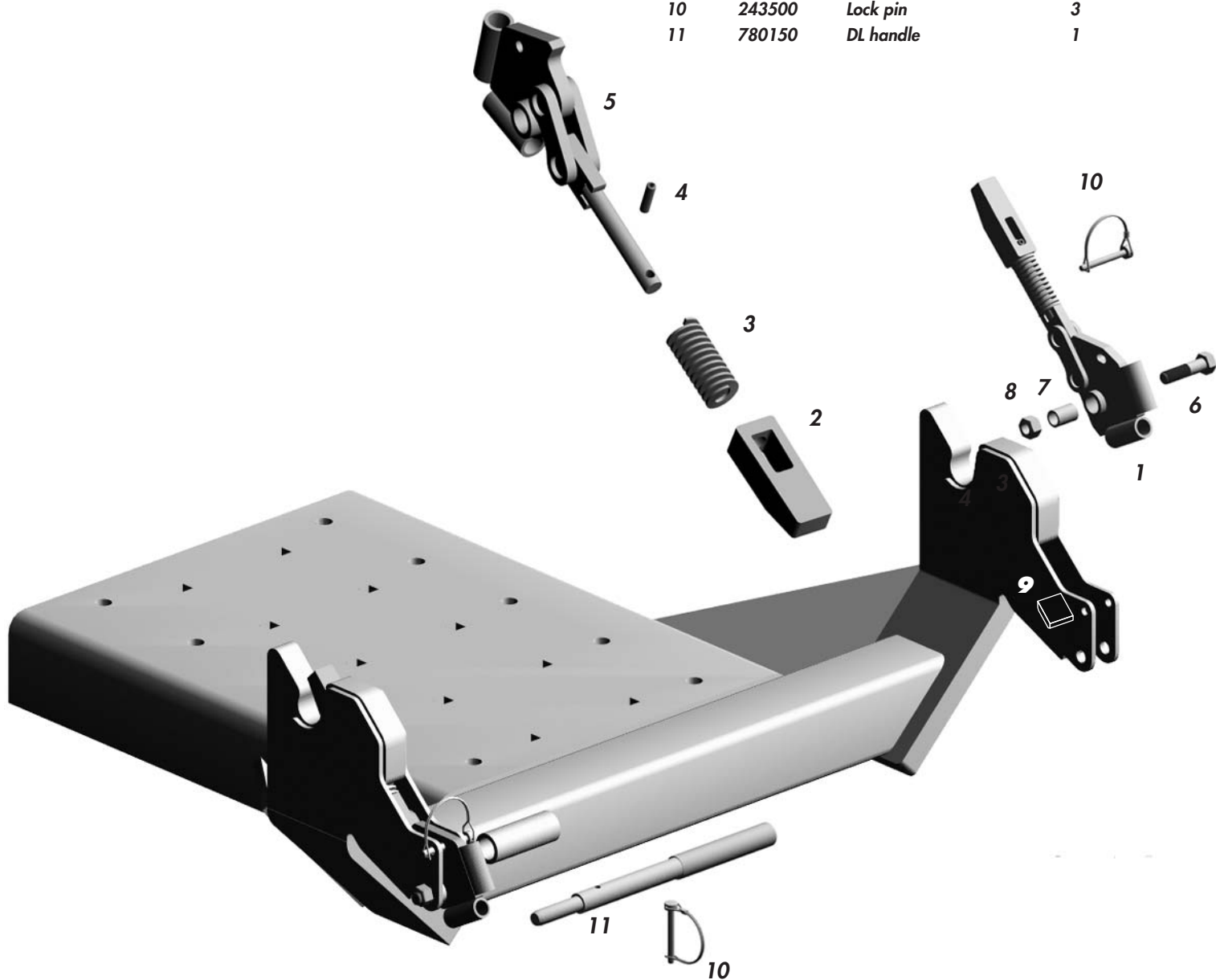
25	779893	Shim plate 1	2
26	118805	Bolt 3/4 x 15	4
27	118747	Bolt M20 x 80	4

28	778065	Pin, main to pivot	1
29	118082	Bolt 1/2 x 3 1/2	1
30	118504	Lock washer 1/2	1
31	118405	Nut 1/2	1



Dlock Rear frame 780530

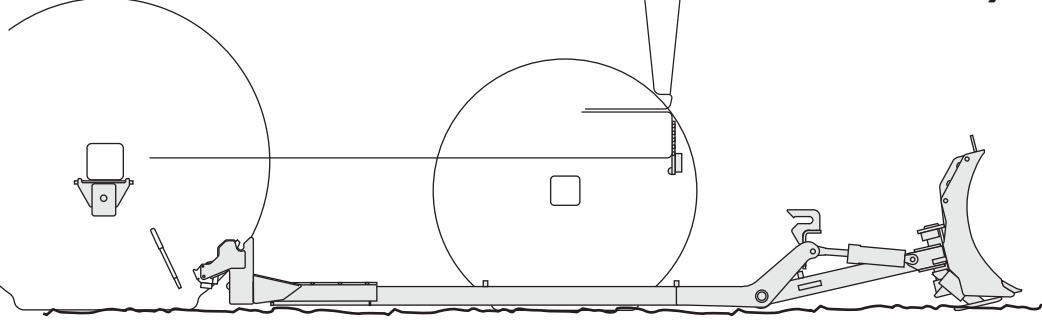
1	780152	Dlock	2
		c/w...	
2	780157	Wedge	1
3	143116	Compression spring	1
4	118913	Roll pin	1
5	780153	DL linkage plate/bush	1
6	118028	Bolt 5/8 x 2 1/2	2
7	780795	DL bushing	2
8	118448	Lock nut 5/8	2
9	780794	UHMW plastic block	2
10	243500	Lock pin	3
11	780150	DL handle	1



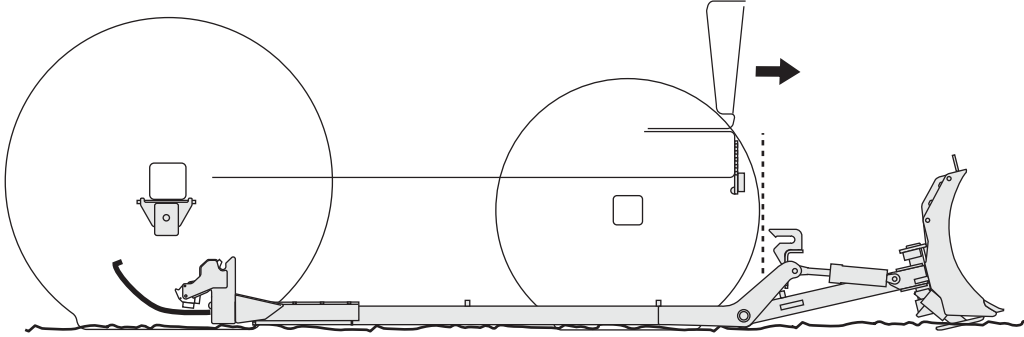
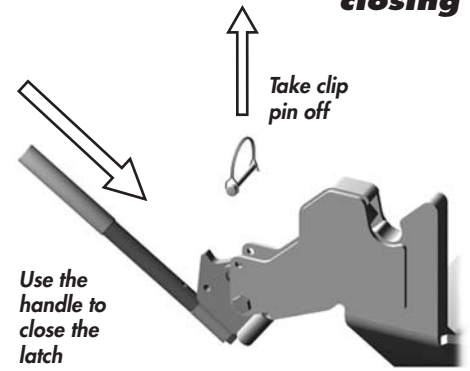
Mounting

JD 7600-7800, 7610-7810

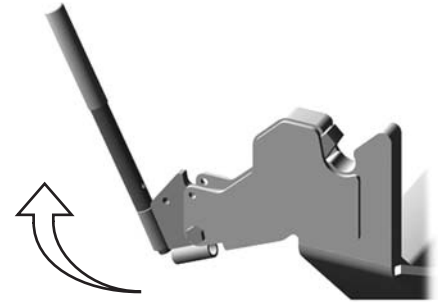
Dlock closing



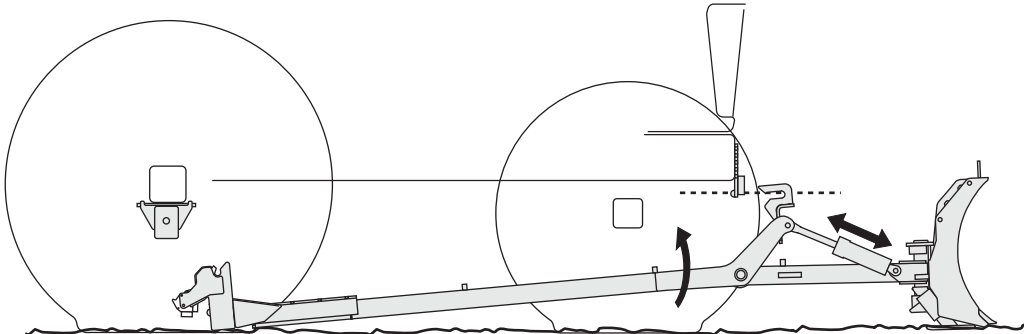
Line tractor up over the rear/main frames. Make sure Dlock is open, clip pin is put back on and handle is stored.



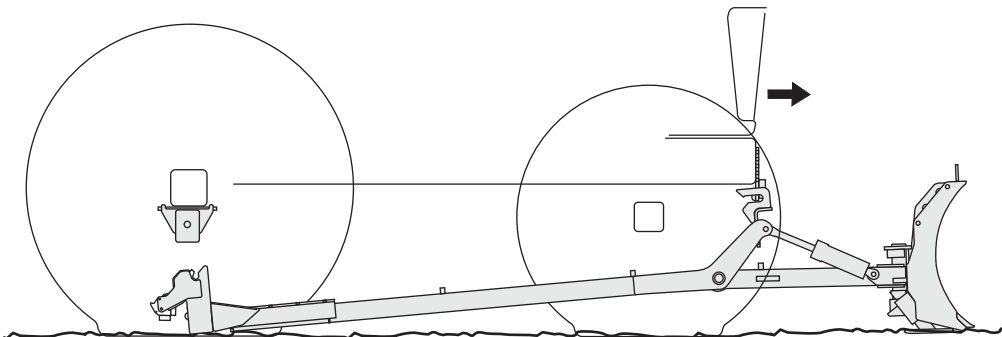
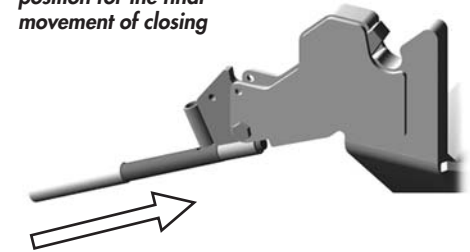
Drive forward so that the front bracket pin is just behind the front hanger's hook. It should be lined up so you can drive into the front hanger when it is raised up. Hook up the hydraulics.



Note the second position for the final movement of closing



Raise the front hanger by extending the lift cylinders so the pin and hook are level.



Drive forward until the pin is in the front hanger.



Make sure Dlock is closed properly

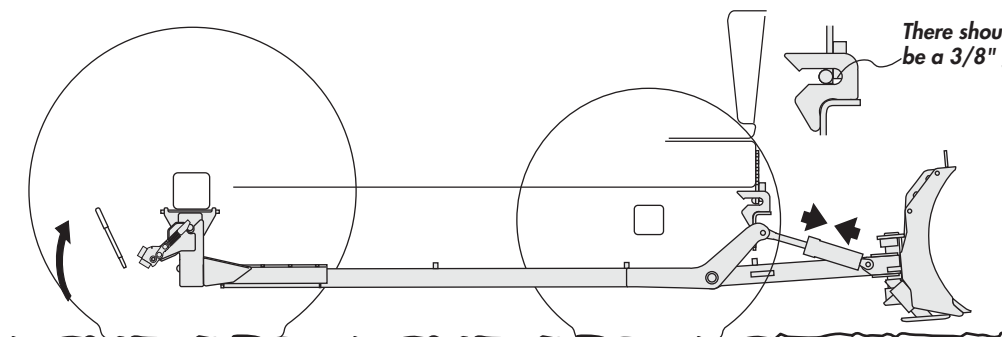
To disengage:

- 1- RAISE THE BLADE
- 2- Open the Dlock
- 3- Extend lift cylinder to lower rear frame
- 4- Lower main frame to ground
- 5- Back out to clear front hanger
- 6- Unhook hydraulics



WARNING

It is vital to raise the blade before opening Dlock. If you don't the rear frame will fall.



There should be a 3/8" gap

Now close the lift cylinders. This will raise up the rear frame. Take off clip, close the Dlock, attach clip then store the handle.

Before using for the first time

- Lube all points
- Torque all hardware to correct setting
- Check hardware torque & hydraulics after the first 2 hrs & again after 10 hrs
- Ensure tread setting & steering angle stops set correctly

Before using each time

Check:

- If all points lubricated
- All components attached securely
- Condition of cutting edge
- Depth shoe wear
- Hydraulics;
 - Tractor's oil reservoir
 - Condition of hoses, lines & fittings

Bleeding hyd

Bleed hydraulics of air. Cycle the hydraulics several times and hold the cylinders at full extent for several seconds.

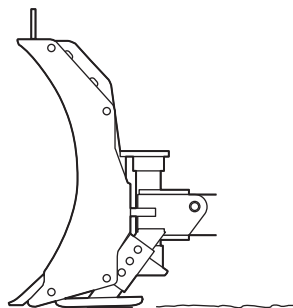
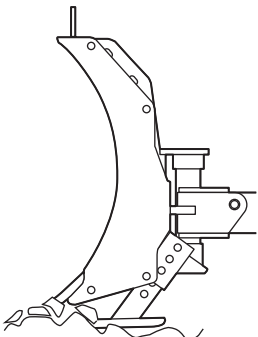
Depth shoes

Soft uneven ground

- Depth shoe low
- Blade high

Hard even ground

- Depth shoe high
- Blade low



Operation, maintenance

Record your serial number & blade width

9, 10, 12 or 14ft

Rear end weights & Tire inflation

If needed, balance out your tractor by ballasting the rear end. You may need to raise the tire pressure in the front wheels. Consult your tractor's manual.

Floatation mode

Here are some of the things you can do with your hyd system in float position;

- Skim the top of pavement
- Run on the skid shoes
- Back drag

Cold weather

Cycle the cylinders several times to warm up system.

TORQUE



all hardware

TORQUE SETTINGS

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

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	

Metric thread specs

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

Hyd. fitting

Size

3/4	75 ft lb
7/8	90

Lubrication



Lube all points and mechanisms after every 8 hr of use. Lube both sides

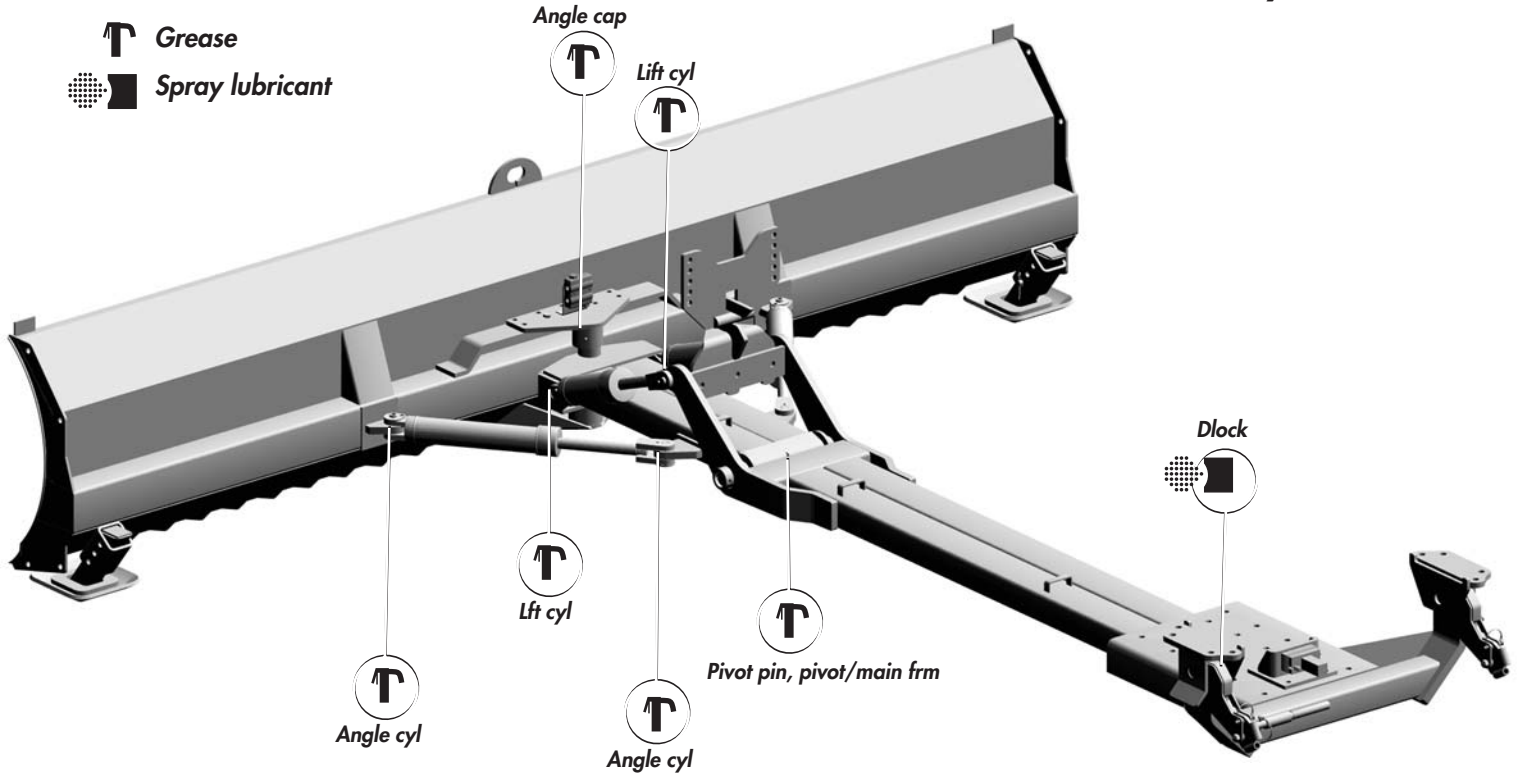
DeGelman

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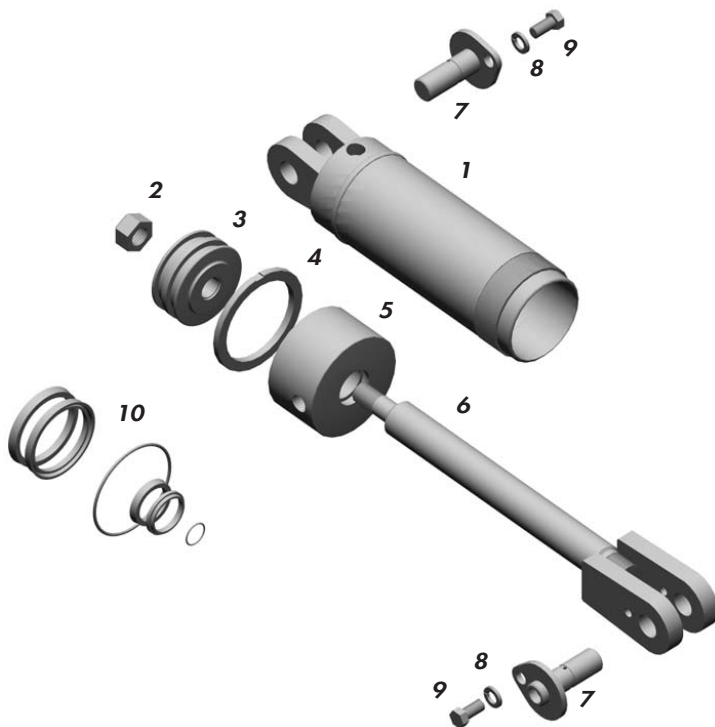
JD 7600-7800, 7610-7810

Lube with:

-  Grease
-  Spray lubricant



Previous hyd. cylinders



121811, 3 1/2 x 8 x 1 1/2 Lift cylinder

1	121687	Barrel	1
2	118441	Lock nut 7/8 unf unitq	1
3	121684	Piston	1
4	121748	Lock ring	1
5	121805	Open cap	1
6	122083	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	121806	Seal kit 3 1/2 x 1 1/2	

121674, 3 x 16 x 1 1/2 Angle cylinder

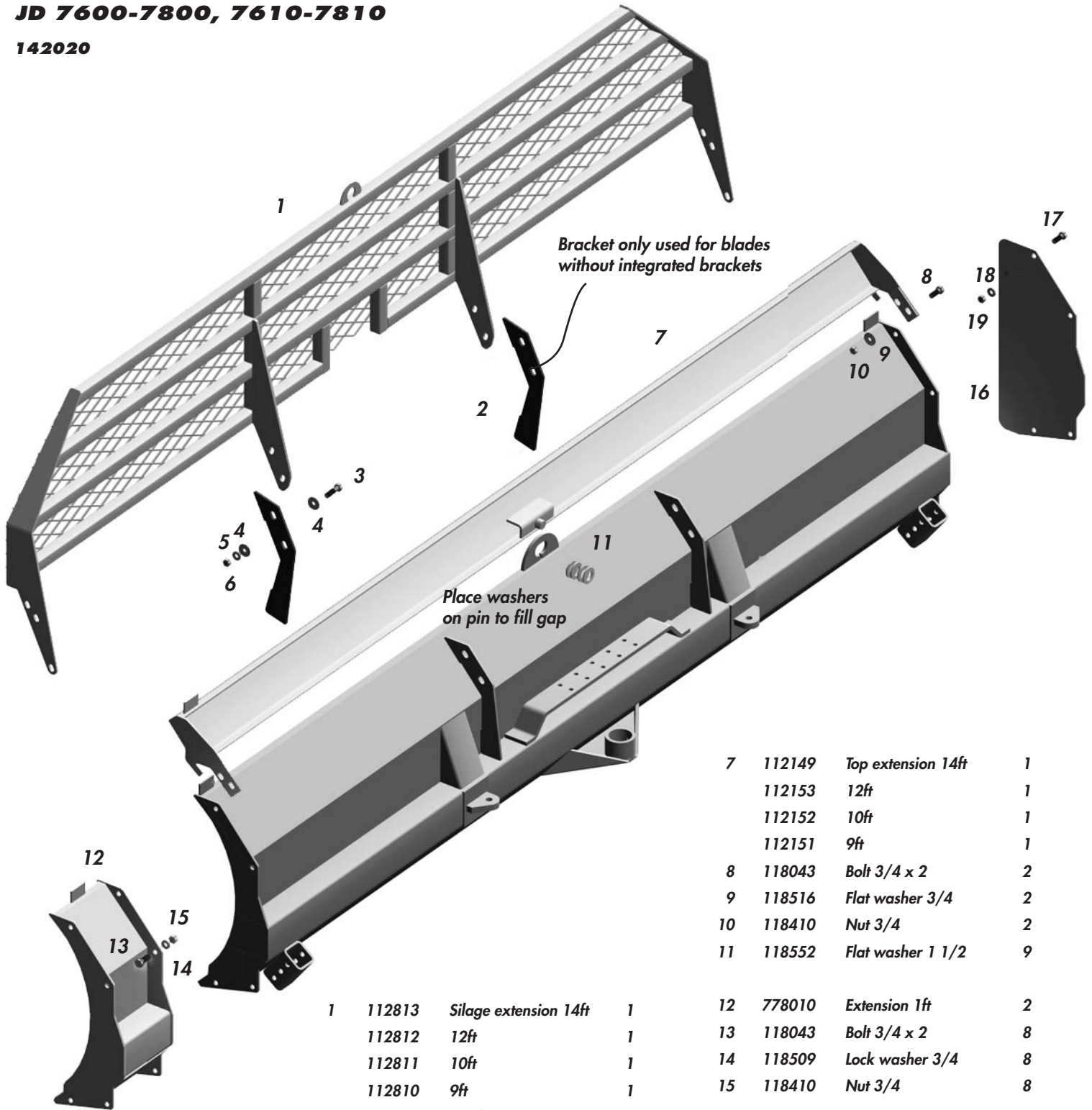
1	121671	Barrel	1
2	118441	Lock nut 7/8 unfunitq	1
3	121606	Piston	1
4	121746	Lock ring	1
5	121629	Open cap	1
6	122099	Rod & clevis	1
7	118930	Clevis pin	2
8	118796	Shld bolt 1/2 x 1 1/8	2
9	118924	Flat washer .591	2
10	121612	Seal kit 3 x 1 1/2	

These cylinders were the set used before the current set already described.
This system is painted black and the current cylinders are yellow.

Options

Decals & reflectors

142386	Warning decal, Falling Blade	2
142008	Degelman logo 25 3/4 lg	2
142280	Red reflector 6 3/8	2
142279	Amber reflector 3 1/4 lg	1
142904	46/57 blade decal	1



Bracket only used for blades without integrated brackets

Place washers on pin to fill gap

1	112813	Silage extension 14ft	1	12	778010	Extension 1ft	2
	112812	12ft	1	13	118043	Bolt 3/4 x 2	8
	112811	10ft	1	14	118509	Lock washer 3/4	8
	112810	9ft	1	15	118410	Nut 3/4	8
2	778236	Bracket	2	16	778013	Side plate	2
3	118047	Bolt 3/4 x 2 1/2	8	17	118043	Bolt 3/4 x 2	8
4	118516	Flat washer 3/4	16	18	118509	Lock washer 3/4	8
5	118509	Lock washer 3/4	8	19	118410	Nut 3/4	8
6	118410	Nut 3/4	8				
7	112149	Top extension 14ft	1				
	112153	12ft	1				
	112152	10ft	1				
	112151	9ft	1				
8	118043	Bolt 3/4 x 2	2				
9	118516	Flat washer 3/4	2				
10	118410	Nut 3/4	2				
11	118552	Flat washer 1 1/2	9				

KILLED, INJURED OR SAFE?

YOUR CHOICE



You are responsible for your own safety. If you are not familiar with basic agricultural & industrial safety, you must get training. 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



Safety

JD 7600-7800, 7610-7810

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.



BLADE

Lower blade to the ground when not in use. Keep clear of blade when tractor is running. Keep hands & feet away from under blade. Turn engine off when hooking up hydraulics and engaging DLOCK during mounting or dismounting.

TRANSPORTING

Lift blade up then hold with safety chain. Make sure SMV sign & reflectors are clean. Use your hazard lights.

Degelman
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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.