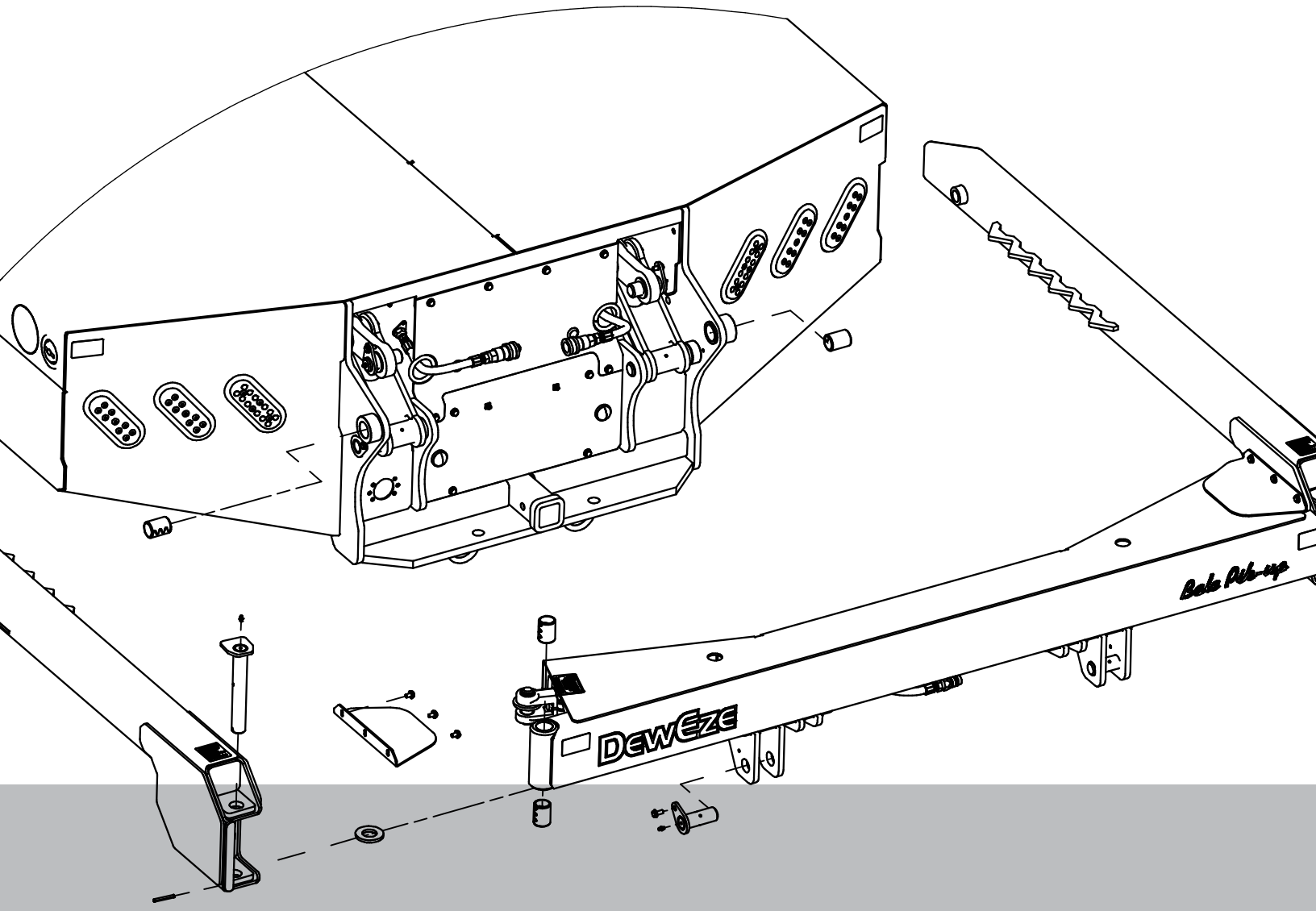
PIVOT SQUEEZE



DewEze®

Thank you for purchasing a DewEze Flatbed.

TO THE OWNER OR OPERATOR:

As with all Harper products, the 600 and 700 Series Flatbeds have been thoroughly tested and built to provide a sturdy, dependable product. The Flatbed is equipped with live hydraulics, which allows it to be used for a wide range of lifting and hauling tasks. This manual is written as an aid to operating and maintaining the DewEze Flatbed. Read and understand the manual thoroughly before operation to avoid damage to the unit or injury to the operator or bystanders.

A Flatbed can present hazards to an operator who follows unsafe procedures in either the operation or maintenance of the unit. Therefore, **SAFETY WARNINGS** are present at certain locations in the text. Harper Industries is not responsible for accidents or injuries that result from the misuse or lack of maintenance of the Flatbed.

SYMBOL: **SAFETY WARNING!**

MEANING: Failure to understand and obey this warning may result in injury to you or others. Whenever this symbol is used, please pay very close attention to the information presented, and make sure you fully understand. If you do not, contact your dealer or Harper Industries for clarification.

HARPER® INDUSTRIES, INC.

151 E. HWY. 160 Harper, KS 67058
(620) 896-7381 • **Fax** (620) 896-7129
Toll Free 800-835-1042
Email info@deweze.com
Website www.deweze.com

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Statement of Warranty

Harper Industries warrants to each purchaser of a new DewEze Flatbed from an authorized dealer or representative, that such equipment is free of manufacturer's defects which appear while in normal service for a period of TWO YEARS commencing with deliver to the original user. The Flatbed hydraulic and electrical systems are warranted for a period of one year.

The obligation of Harper Industries under this warranty is expressly limited, at our option, to replacement or repair at a service facility designated by Harper Industries or at the manufacturing plant in Harper, Ks. A part will be replaced after inspection discloses it to have been defective. This warranty does not apply to defects caused by damage or unreasonable use (including failure to provide reasonable and necessary maintenance, or by performing functions without genuine DewEze accessories) while in the possession of the consumer.

Harper Industries shall not be liable for the consequential damages of any kind, including but not limited to consequential labor costs or transportation charges in connection with replacement or repair of defective parts.

Harper Industries makes no warranty with respect to trade accessories. They are subject to the warranties of their respective manufacturers.

ANY IMPLIED OR STATUTORY WARRANTIES, INCLUDING ANY WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. Harper Industries makes no other express warranty, nor is anyone authorized to make any on behalf of Harper Industries.

For further information please contact your nearest DewEze dealer.

RECORDS

Date of Purchase _____ / _____ / _____

Dealer's Name _____

Dealer's Phone _____

Serial Number Machine _____

Serial Number Engine _____

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Specifications

DewEze flatbeds are specifically designed to transport and feed round hay bales.

Model Specifications

MODEL	670	671	675	676	677	679	682	684
WIDTH	7’ 1”	7’1”	7’ 1”	7’ 1”	7’ 1”	7’ 1”	7’ 9”	7’ 9”
LENGTH	7’ 2”	7’7”	8’ 6”	8’ 11”	9’ 4”	9’ 8”	9’ 4”	9’ 8”
WEIGHT	2070#		2120#	2175#	2230#	2270#	2320#	2470#

687	688
7’ 9”	7’ 9”
11’ 6”	11’ 10”
2590#	2730#

MODEL	770	778	776	782	784	787	788
WIDTH	8’	8’	8’	8’	8’	8’	8’
LENGTH	7’ 2”	8’ 6”	8’ 11”	9’ 4”	9’ 8”	11’ 6”	11’ 10”
WEIGHT	2130#	2170#	2240#	2320#	2470#	2590#	2730#

*** Length of all flatbeds includes 6” for crosstube.**

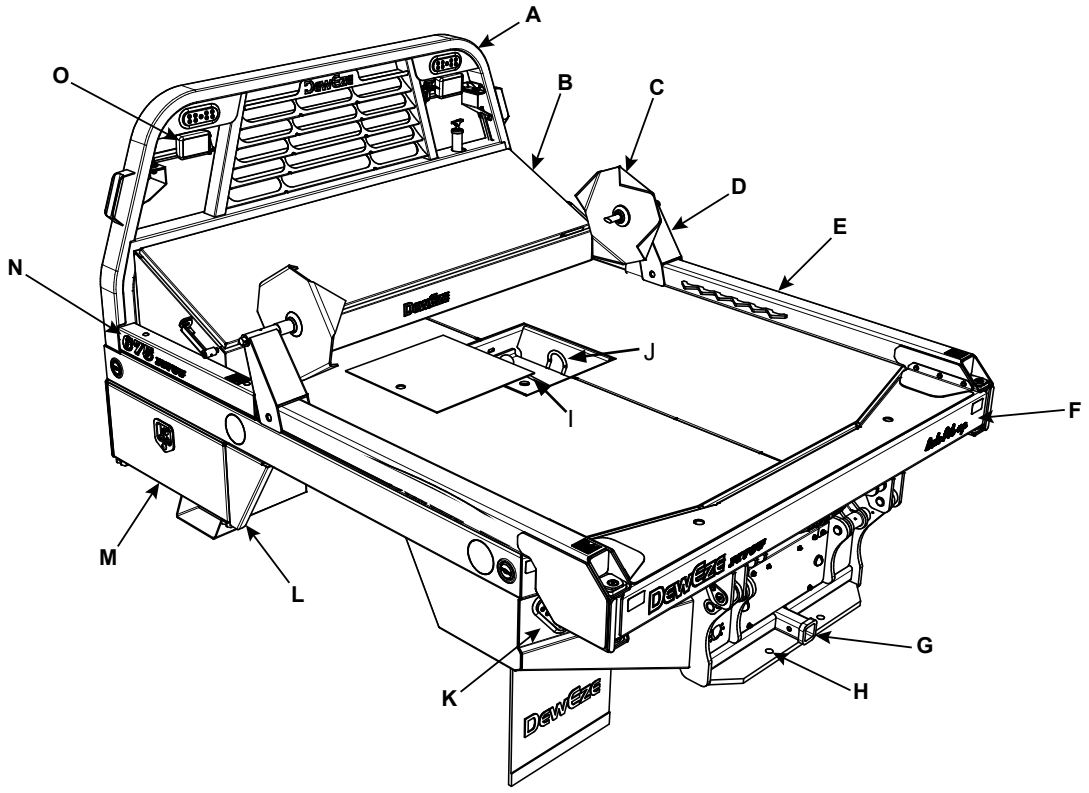
Hydraulic System Specifications

HYDRAULIC SYSTEM	Powered by engine driven pump
SYSTEM PRESSURE	2450 psi
OIL RESERVOIR CAPACITY	10 gallons
OIL FILTER	DewEze 720043, WIX 51551 (10 micron)
CYLINDER, LIFT (2)	3.50” x 16.62”
CYLINDER, SQUEEZE	3.00” x 5.00” 3.25” x 5.00” Rephasing

Protective Coating Specifications

PAINT	Heat-cured, polyurethane based paint
GATORHYDE	Long-lasting, textured polyurea surface

Feature Identification



A. Headache Rack – protects the rear pickup window. The hydraulic oil tank and valve are located in the headache rack.

B. Across-the-bed Toolbox (optional) – measures 78” wide, 15.5” tall and 21.5” deep and has a shelf mounted inside.

C & D. Spinners & Risers (optional) – used to unroll hay. The risers allow the hugger arms to lie flat on the bed with the spinners attached.

E. Hugger Arms – squeeze together to grip the bale and lift it onto the flatbed. When the arms are stored they serve as side rails for the flatbed.

F. Crosstube – houses the squeeze cylinder and guides the hugger arms.

G. Hitch Plate – allows for a 2” square receiver hitch and has holes for hitch pins.

H. Safety Chain Loops – always use safety chains when towing.

I. Gooseneck Hitch – located under a cover plate in the middle of the bed.

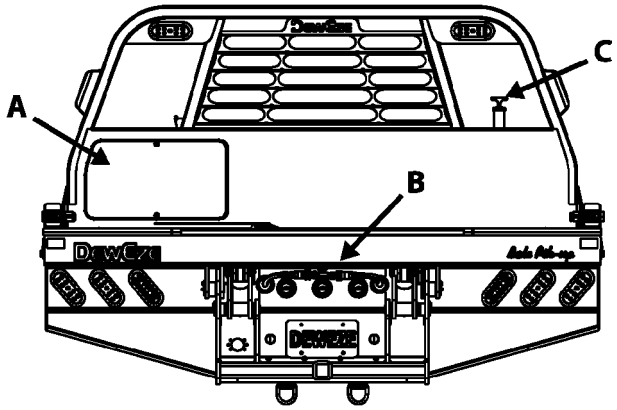
J. Safety Chain Loops – always use safety chains when towing.

K. Lights – LED lighting for stop-tail-turn has long life and low current draw.

L & M. Skirts & Toolboxes (optional) – mount under front of bed on both sides. The Electric/Hydraulic Power unit mounts inside the left toolbox.

N. Dummy Arms – serve as side rail along with hugger arms.

O. Swing Lights (optional) – lights can be pivoted out wider than the bale when working at night.



A. Valve Compartment – houses the hydraulic control valve, hydraulic oil filter and the radio frequency receiver.

B. Pioneer Couplers – connect hydraulic hoses to the squeeze cylinder – may also be used to connect to implements.

C. Hydraulic Oil Fill & Dipstick – check hydraulic oil level with dipstick – fill here when necessary.

Remote Control Transmitter – operates all functions of the flatbed – uses two AA batteries.

⚠ SAFETY WARNING! ⚠

Do not stand under the hugger arms when operating the bale pickup unit, even when arms are empty.

Specifications

Operator safety is of upmost concern when designing and developing a new piece of equipment. Designers and manufacturers build in as many safety features as possible. However, every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling equipment. Most accidents can be avoided by observing the precautions in this section. To avoid personal injury, study the safety warnings and cautions listed in this manual and follow them.

General Equipment Safety

- This equipment can be dangerous to children and persons unfamiliar with its operation. The operator should be a responsible adult familiar with farm machinery and trained for this unit.
- Do not attempt to operate equipment under the influence of drugs or alcohol.
- Do not allow persons to operate or assemble this unit until they have read this manual and have developed a thorough understanding of the safety precautions and how the unit works.
- Review the safety warnings and cautions with all users annually.

If you have any questions not answered in this manual or require additional copies, contact your dealer or Harper Industries.

Flatbed Operation Safety

- Replace any CAUTION, WARNING, DANGER or instruction decal that is not readable or is missing.
- Make sure all safety pins are in place and flatbed mounting bolts are secure to the truck frame.
- Make sure hinges, joints, and sliding parts are well greased, especially during off season to prevent rusting and binding.

- Check with truck dealer for any load limits, additional suspension or tire requirements. The flatbed's lifting capability may exceed the truck's load capacity in some instances.

Hydraulic Safety

- Do not operate the hydraulic system with the hood open.
- Do not activate the electric clutch unless the truck engine is at idle. Operating the clutch at road speeds can damage the hydraulic system.

⚠ SAFETY WARNING! ⚠

Hydraulic system operates under high pressure and escaping fluid can penetrate the skin.

Operating Instructions

Beginning Operation

- Turn the pump switch on the dash to the "ON" position. (Red light will indicate that pump is on).

CAUTION: In cold weather, let engine idle for 5-10 minutes with pump on before operating arms to warm oil. Neglecting to do so may cause hydraulic pump failure.

- Press and hold the power button on the transmitter until both LEDs turn on, then release.
- The green LED will flash rapidly when the communication has been established. If the receiver is off, the red LED will flash slowly.
- Press the corresponding buttons on the transmitter keypad to turn on and off each of the outputs.

Loading

- Back truck against bale with the arms wide apart and tilted slightly upward.
- Squeeze arms firmly against the bale.
- Lift the bale onto the truck.
- Release the bale and repeat the operation for the second bale.

CAUTION: When hauling one bale, make sure it is held tightly and rests on the bed. When hauling two bales make sure the second bale is as far forward as possible (Fig. 1). Carrying a bale behind the bed, as show in Fig 2, places excessive stress on the cylinder, linkage, and pins.

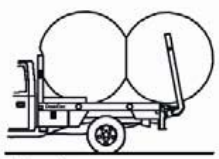


Fig. 1

Fig. 2

CAUTION: Do not exceed GVRW rating of truck when loading. Two bales can easily exceed the GVRW on a ¾ ton truck. A typical ¾ ton truck can haul 2,300 lbs. of payload in addition to the flatbed.

Extending (option)

- Always squeeze the bale with the arms in the retracted position.
- Extend the arms and release the bale.
- Fully retract the arms before laying them on the bed.

CAUTION: Squeezing the bale when the arms are extended puts excessive force on the arms and cross-tube and may result in bending the unit.

Unloading

- To unload, do the reverse of the loading operation.
- Spinners may sometimes be needed to grip the front bale for unloading.

Unrolling (option)

- Use risers and spinners to unroll a bale.
- Position the arms over the bale so the spinners are at the center of the bale.

- To unroll, lower the bale to the ground.
- Turn the pump off and push the FLOAT switch on the remote control.
- Slowly drive STRAIGHT forward. The bale will gradually unroll.

CAUTION: Turning while unrolling a bale may cause hugger arms to bend.

CAUTION: Failure to use FLOAT while unrolling may damage flatbed frame or lift cylinder. The FLOAT switch on the remote transmitter stays on until it is pressed a second time or another switch is activated. To avoid power loss, always deactivate the FLOAT when not in use.

Storing the Arms
- Close the arms partially and lay them on the flatbed.
- Open the arms until they are flush with the side of the bed. They now function with the dummy arms as side rails.

Turning System Off
- Turn the pump off when it is not in use.
- The remote control turns itself off automatically after 10 minutes.

CAUTION: Operating truck at road speeds or above 2,000 RPM with pump engaged may cause hydraulic pump failure.

Maintenance

Check Daily or Before Use
- Check the hydraulic oil level. Keep the level to “FULL” on the dipstick.
- Check the belt, belt tensioner and idler pulleys on engine clutch pump system.
- Examine the hydraulic hoses for leaks with an object such as cardboard.

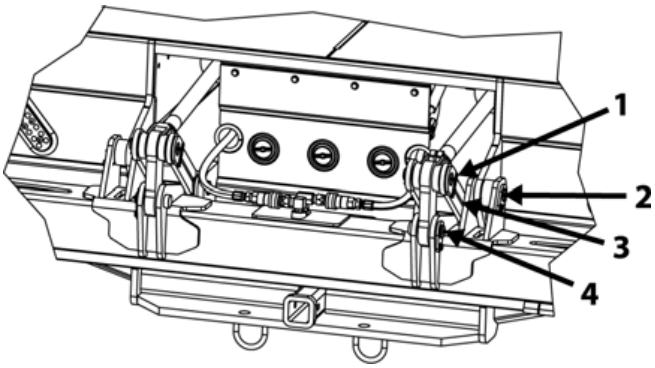
SAFETY WARNING!

Hydraulic fluid escaping under pressure can penetrate the skin and may cause death if not treated immediately.

Lubrication

Grease the locations indicated in the illustrations below once per week while the unit is in use and at the end of each season (same locations on right and left).

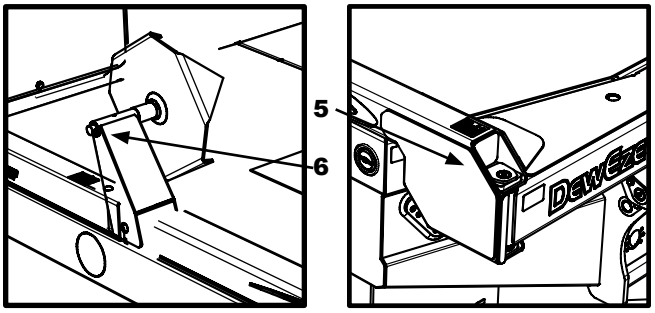
1. Lift cylinder – rod end
2. Cross-tube hinge
3. Idler arm base
4. Idler link pin



SAFETY WARNING!

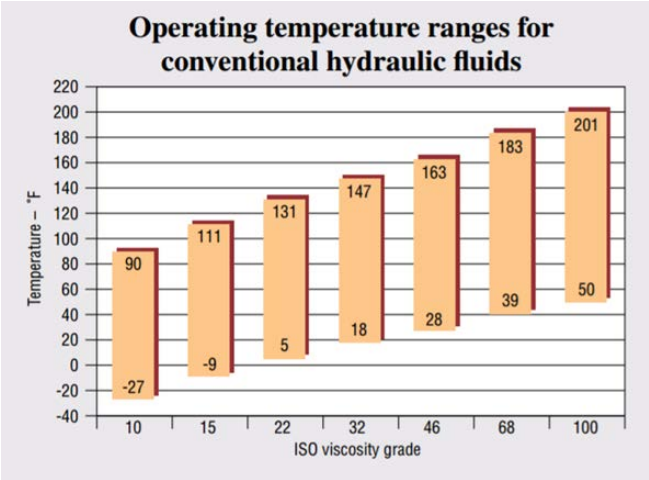
Use extreme caution when greasing the flatbed. Completely lower arms to expose rear zerks and turn off ignition.

5. Pivot
6. Riser (option)



Hydraulic Oil

- Hydraulic fluid selection will affect the performance of the hydraulic system.



- Consult your local oil supplier for help in selection of a hydraulic fluid appropriate for your area. Consideration will also need to be given as to whether the system is a clutch pump or electric over hydraulic.
- Change the hydraulic oil filter after the first 40 hours of use and then every 250 hours, or annually thereafter.
- Change the hydraulic oil if it becomes contaminated or turns milky in appearance.
- If other hydraulic equipment is connected to the system, the oil will intermix and cold weather viscosity may be lost.

Hydraulic System

- If the quick-couplers leak, the o-rings may need to be replaced.
- High heat, 190° or greater, can be damaging to the hydraulic system. Feel various parts of the system to make sure there are no “hot spots” which may indicate a problem.
- In the off season, run the bed at least twice a month to prevent valve condensation.
- For easy hookup of the couplers, turn the pump switch off and activate the control valve switches with the ignition on. This will release pressure in the lines.

GatorHyde Protective Coating

- In the event that damage should occur to the GatorHyde protective coating, repair materials are available from your DewEze dealer to fix small areas. Follow the instructions provided in Appendix I.

Remote Control

- The remote control transmitter has two LED indicators, the green TRANSMIT indicator and the red BATTERY / DIAGNOSTIC indicator.
- The green TRANSMIT indicator flashes rapidly whenever there is communication between the transmitter and the receiver.
- The red BATTERY / DIAGNOSTIC indicator starts blinking once every second when the battery voltage is low and requires replacement. It also blinks when there is a problem with the system in the form of an error code. Refer to the ERROR CODE CHART in Appendix II.
- To synchronize a new transmitter and receiver together, refer to the TEACH ID CODE instructions in Appendix II.

Power Unit

- If the flatbed is powered with a DewEze Under-the-Hood hydraulic system, refer to the following chart when troubleshooting.
- See Appendix III if the flatbed is powered with the Electric/Hydraulic power unit.

Troubleshooting

Problem	Symptom	Possible Solutions
Hydraulic Pump	No Oil Flow	• CHECK OIL LEVEL IN RESERVOIR. If oil level is low, check for leaks in system then re-fill to FULL. • CHECK BELT TENSION. Replace tensioner or tighten idlers if needed. Replace belt if worn. • CHECK FOR SHEARED KEY ON PUMP SHAFT. Replace key. • CHECK IF SUCTION HOSE COLLAPSES IN SUCTION. Locate and remove obstruction. • CLUTCH NOT FUNCTIONING. See possible clutch solutions. • INTERNAL PUMP DAMAGE. **Seek assistance from dealer.**
Hydraulic Pump	No Oil Pressure	• HYDRAULIC OIL LEAKS IN SYSTEM. Take safety precautions and check for leaks. Tighten fittings and replace damaged hoses. • CHECK FOR MALFUNCTIONING SWITCH. Replace switches. • BELT OR CLUTCH MAY BE SLIPPING. Replace tensioner or tighten idlers if needed. Replace belt if worn. • VALVE NOT FUNCTIONING. Check for disconnected wires at solenoid or rusted ground wires. **Seek assistance from dealer if valve continues to be unresponsive.** • PRESSURE RELIEF MAY BE SET TOO LOW OR BROKEN. **Seek assistance from dealer. CAUTION: PRESSURE EXCEEDING 2,600 PSI CAN DAMAGE THE PUMP.** • PUMP IS WORN OR DAMAGED. **Seek assistance from dealer.**
Clutch	Does Not Engage	• CHECK FOR BLOWN FUSE. Replace fuse. **CAUTION: FUSE SHOULD NOT EXCEED 30 AMPS** • CHECK WIRE TO CLUTCH. Insure there are no breaks or shorts. • CHECK FOR BAD SWITCHES IN SYSTEM. Replace switches. • CLUTCH IS WORN OUT. **Seek assistance from dealer.**
Belt(s)	Jumps Off Pulley	• BELT(S) TOO LOOSE. Replace tensioner or tighten idler pulleys. • CHECK FOR EXCESSIVE BELT WEAR. Replace worn belt(s). • CHECK FOR LOOSE PUMP BRACKET. Tighten loose bolts. Replace broken bolts. • CHECK CRANKSHAFT PULLEY FOR LOOSE OR BROKEN BOLTS. Tighten loose bolts. Replace broken bolts. • CHECK ALIGNMENT OF IDLER PULLEYS AND CONDITION OF BEARINGS. Re-align idler pulleys or replace worn idler pulleys. • CHECK ALIGNMENT OF CLUTCH AND CRANKSHAFT PULLEY. **If misalignment is visible, seek assistance from dealer.**

⚠ SAFETY WARNING! **⚠ Use extreme caution when inspecting an engine. Serious injury or death could result from getting too close! Remove key from ignition when servicing.**

DewEze®

PIVOT SQUEEZE

PARTS

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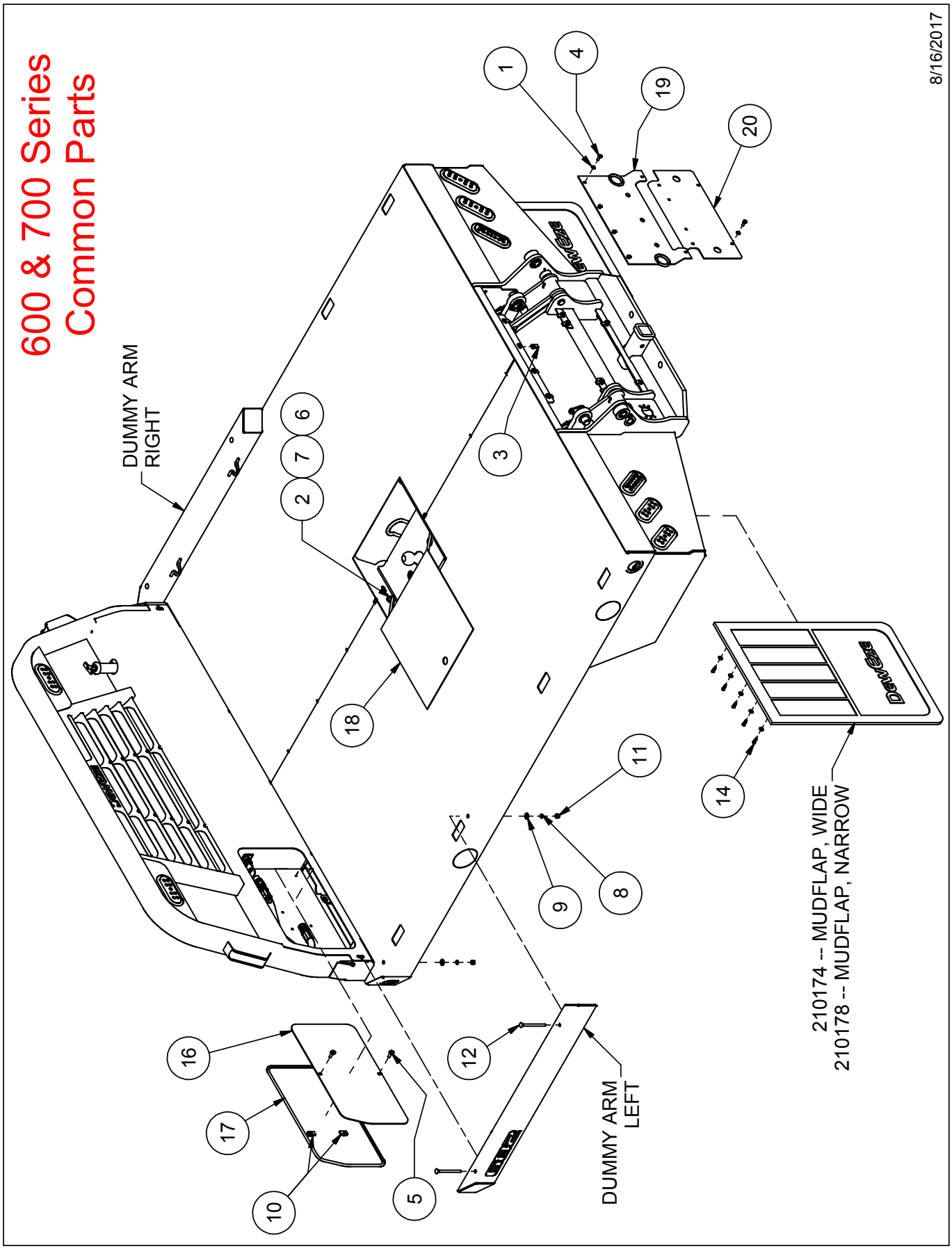

600 & 700 Series
Common Parts
8/16/2017
DUMMY ARM
RIGHT
DUMMY ARM
LEFT
210174 -- MUDFLAP, WIDE
210178 -- MUDFLAP, NARROW
1
2
3
4
5
6
7
8
9
10
11
12
14
16
17
18
19
20

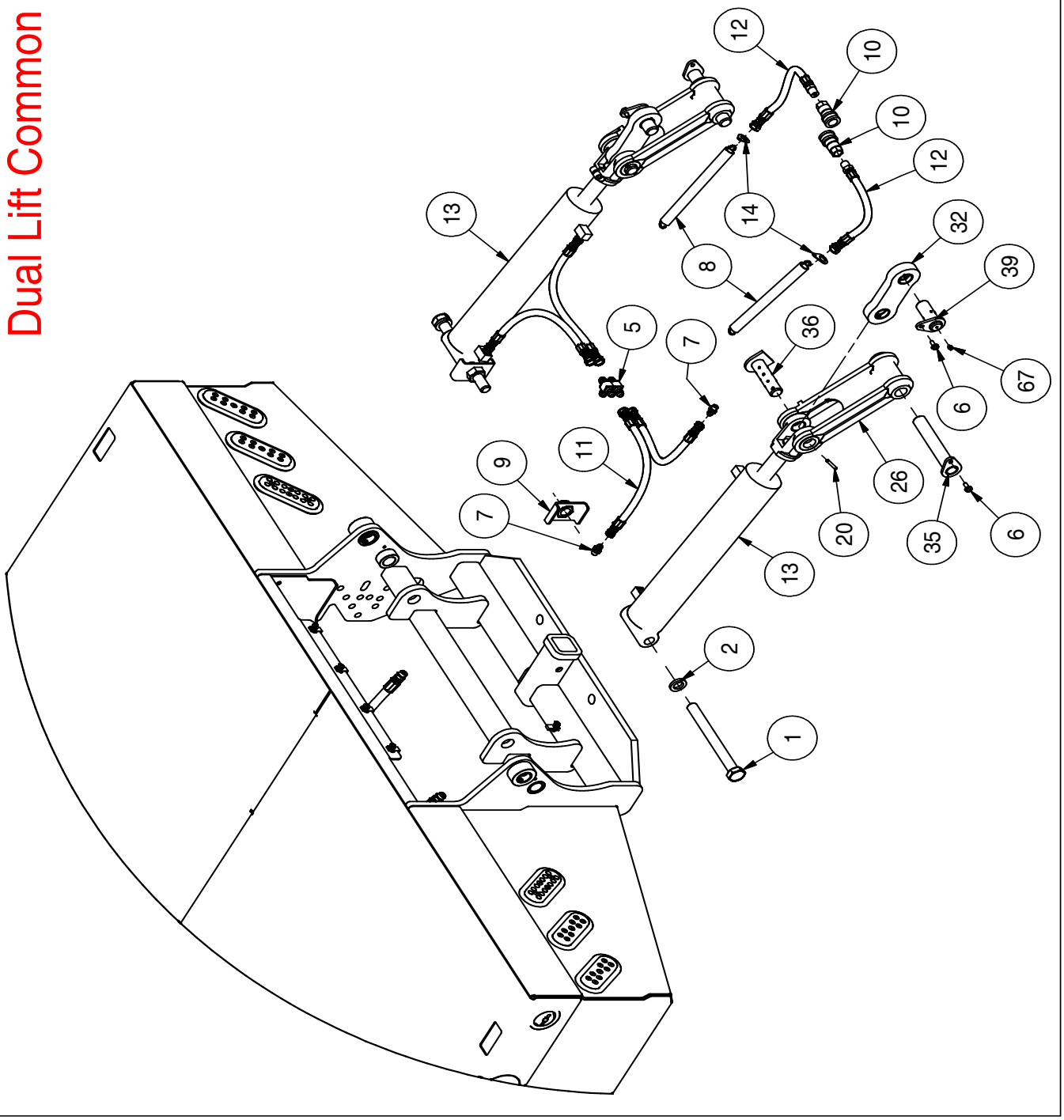
600 & 700 Series
Common Parts

Dummy Arms	
Left & Right	Part #
670	215189
671	215384
675	215150
676	215249
677	215191
679	215208
682	215145
684	215193
687	215198
688	215200
770	215210
778	215160
776	215257
782	215158
784	215202
787	215204
788	215206

Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	10	110069	WASHER, 5/16" FLAT SAE
2	2	110244	BOLT, 1/2-13 X 1.5 SHCS
3	10	110319	NUT, 5/16-18 U-TYPE .75L
4	10	110422	BOLT, 5/16-18 X .75
5	2	110440	BOLT, 3/8-16 X 1, WIZ FLANGE
6	2	110588	NUT, 1/2-13 WIZ FLANGE
7	2	110658	WASHER, 1/2" FLAT STANDARD
8	4	110672	WASHER, 3/8" LOCK
9	4	110676	WASHER, 3/8" FLAT STANDARD
10	2	110804	NUT, 3/8-16 U-TYPE .75L
11	4	110826	NUT, 3/8-16 GR 5
12	4	110846	Bolt, 3/8-16 X 5 in Carriage
14	1	205043	INSTALL HARDWARE
15	1	210459	HITCH BALL AND NUT
16	1	211202	VALVE COVER
17	1	211481	EDGE TRIM, VALVE COVER
18	1	215128	BALL WELL DOOR WELDMENT
19	1	215230	CENTER TAILBOARD DOOR WELDMENT, UPPER
20	1	260253	CENTER TAILBOARD, LOWER, ARM BED

Dual Lift Common Parts

8/29/2013



Dual Lift Common Parts

Dual Lift Cylinders
Production Part# 223038
Seal Kit Part# 212012

Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	2	110352	BOLT, 1-8 X 10, GR8
6	10	110444	BOLT, 5/16-18 X 0.75, WIZ FLANGE
2	2	110649	WASHER, 1" LOCK
5	2	120242	ADAPTER, 8MJ-8MJ-8MJ
7	4	120319	ADAPTER, 6MJ-6MB
20	2	200150	ROLL PIN, 1/4 X 2
8	2	202022	SPRING, 1" O.D. X 12" L X .105 WIRE
26	2	210935	IDLER ARM, MACHINE DWG.
32	2	214002	PUSH ARM ASSY, DUAL LIFT
35	2	215141	PIN WELDMENT, 1-1/4 X 7
36	2	215142	PIN WELDMENT, 1-1/4 X 4
9	2	215144	KEEPER, 1 IN NUT, WELDMENT
39	2	215148	PIN WELDMENT, CROSSTUBE LINK
10	2	220084	COUPLER, PIONEER FEMALE
11	4	220681	HOSE ASSY, FLATBED DUAL LIFT
12	2	220682	HOSE ASSY, FLATBED SQUEEZE SHORT
13	2	223038	LIFT CYLINDER 3.50 X 16.6
14	2	260111	MOUNT, HOSE SPRING
67	8	510174	GREASE ZERK, 1/4-28 ST

600 - 700 WITH GENERATION 2 VALVES

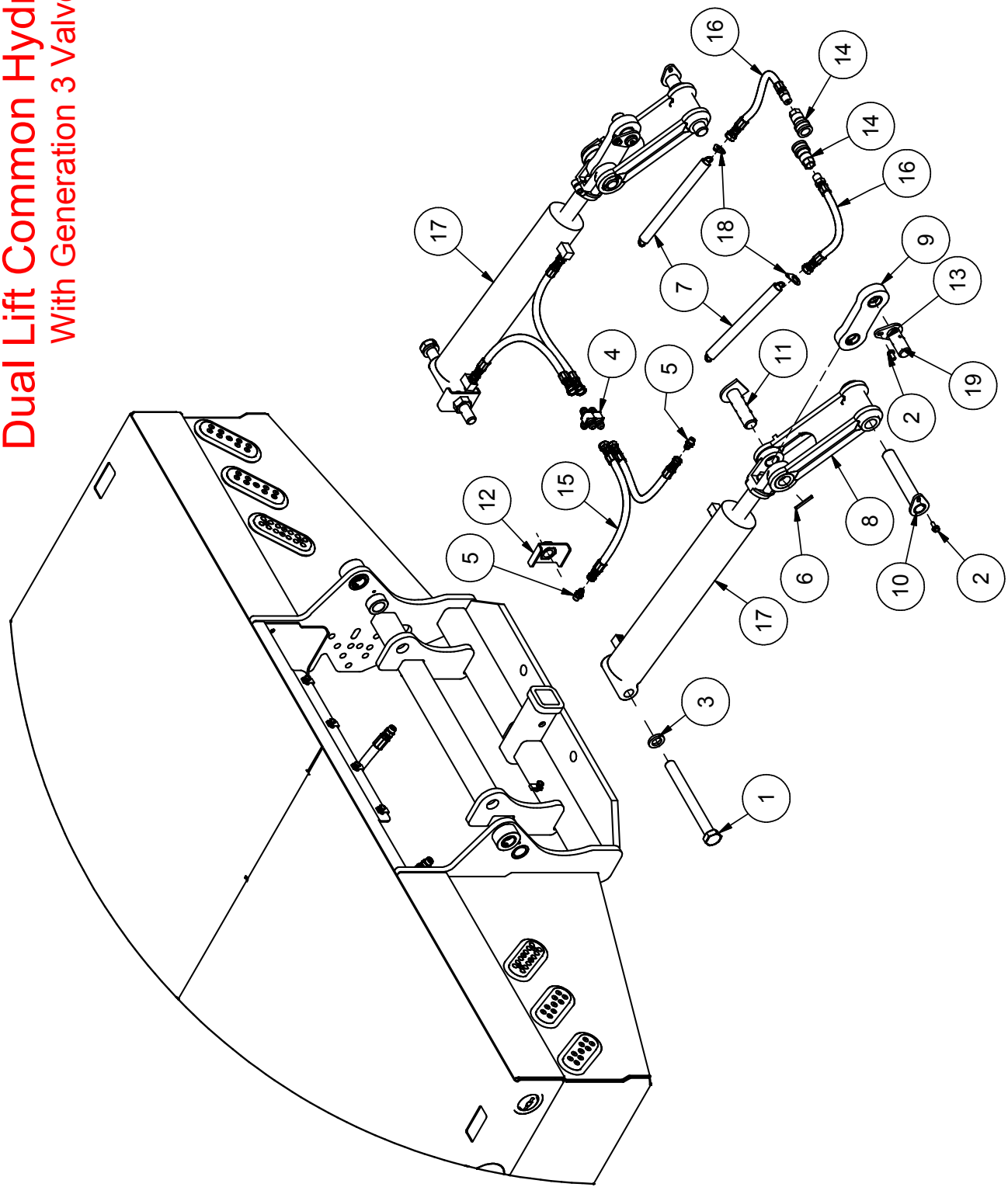
COMMON HOSES		SQUEEZE HOSES SHORT	LIFT HOSES SHORT	RESERVOIR RETURN	HYDRAULIC HOSE KIT #
		6MTF3 - 8FJX / 8MP	8M3K - 6FJX / 8FJX	12-10FJX / 12-12MPX90	
		2 ea.	4 ea.	1 ea.	
		220682 (17 in.)	220681 (17 in.)	220691 (12.25 in.)	**223033**
FLATBED LENGTH		**SQUEEZE HOSES**	**LIFT HOSES**		
		8M3K - 8FJX / 8MJ	8M3K - 6FJX / 8FJX		
		2 ea.	2 ea.		
80 in.	_70	220683 (106 in.)	220687 (76 in.)		**223034**
96 in.	_75 & _78	220684 (122 in.)	220688 (99 in.)		**223035**
106-110 in.	_77 & _82, _79 & _84	220685 (132 in.)	220689 (111 in.)		**223036**
132-136 in.	_87 & _88	220686 (158 in.)	220690 (137 in.)		**223037**

8/29/2013

Dual Lift Common Hydraulics

With Generation 3 Valve

8/16/2017



Dual Lift Common Hydraulics

With Generation 3 Valve

Dual Lift Cylinders
Production Part# 223038
Seal Kit Part# 212012

Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	2	110352	BOLT, 1-8 X 10, GR8
2	10	110444	BOLT, 5/16-18 X 0.75, WIZ FLANGE
3	2	110649	WASHER, 1" LOCK
4	2	120242	ADAPTER, 8MJ-8MJ-8MJ
5	4	120319	ADAPTER, 6MJ-6MB
6	2	200150	ROLL PIN, 1/4 X 2
7	2	202022	SPRING, 1" O.D. X 12" L X .105 WIRE
8	2	210935	IDLER ARM, MACHINE DWG.
9	2	214002	PUSH ARM ASSY, DUAL LIFT
10	2	215141	PIN WELDMENT, 1-1/4 X 7
11	2	215142	PIN WELDMENT, 1-1/4 X 4
12	2	215144	KEEPER, 1 IN NUT, WELDMENT
13	2	215148	PIN WELDMENT, CROSSTUBE LINK
14	2	220084	COUPLER, PIONEER FEMALE
15	4	220681	HOSE ASSY, FLATBED DUAL LIFT
16	2	220682	HOSE ASSY, FLATBED SQUEEZE SHORT
17	2	223038	LIFT CYLINDER 3.50 X 16.6
18	2	260111	MOUNT, HOSE SPRING
19	8	510174	GREASE ZERK, 1/4-28 ST

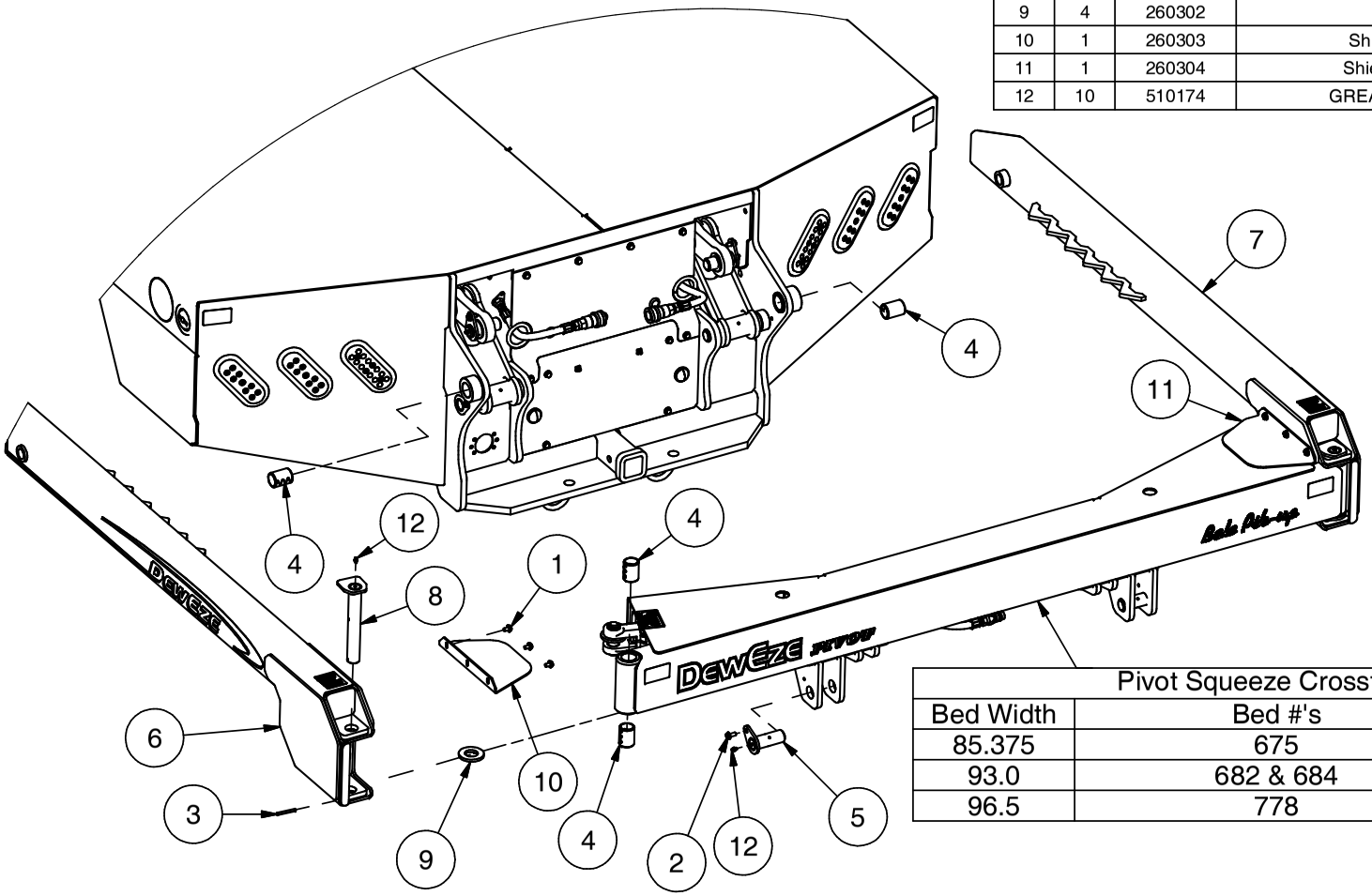
600 - 700 WITH GENERATION 3 VALVES

COMMON HOSES		SQUEEZE HOSES SHORT	LIFT HOSES SHORT	RESERVOIR RETURN	HYDRAULIC HOSE KIT #
		6MTF3 - 8FJX / 8MP	8M3K - 6FJX / 8FJX	12-10FJX / 12-12FJX	
		2 ea.	4 ea.	1 ea.	
		220682 (17 in.)	220681 (17 in.)	220723 (25 in.)	**223051**
FLATBED LENGTH		**SQUEEZE HOSES**	**LIFT HOSES**		
		8M3K - 8FJX / 8MJ	8M3K - 6FJX / 8FJX		
		2 ea.	2 ea.		
80 in.	_70, _71	220683 (106 in.)	220687 (76 in.)		**223034**
96 &101 in.	_75, _76 & _78	220684 (122 in.)	220688 (99 in.)		**223035**
106-110 in.	_77 & _82, _79 & _84	220685 (132 in.)	220689 (111 in.)		**223036**
132-136 in.	_87 & _88	220686 (158 in.)	220690 (137 in.)		**223037**

8/16/2017

Pivot Squeeze Crosstube & Arms

Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	6	110426	BOLT, 5/16-18 X 0.5, WIZ FLANGE
2	10	110444	BOLT, 5/16-18 X 0.75, WIZ FLANGE
3	4	200150	ROLL PIN, 1/4 X 2
4	6	202023	BUSHING, 1.5 X 1.25 X 2.0 SPLIT CG/ID
5	2	215140	PIN WELDMENT, 1-1/4 X 3
6	1	215237	Weldment, Pivot Squeeze Arm Left
7	1	215238	Weldment, Pivot Squeeze Arm Right
8	2	215239	Weldment, Pivot Pin
9	4	260302	Shim Washer
10	1	260303	Shield, Pivot Arm, Left
11	1	260304	Shield, Pivot Arm, Right
12	10	510174	GREASE ZERK, 1/4-28 ST



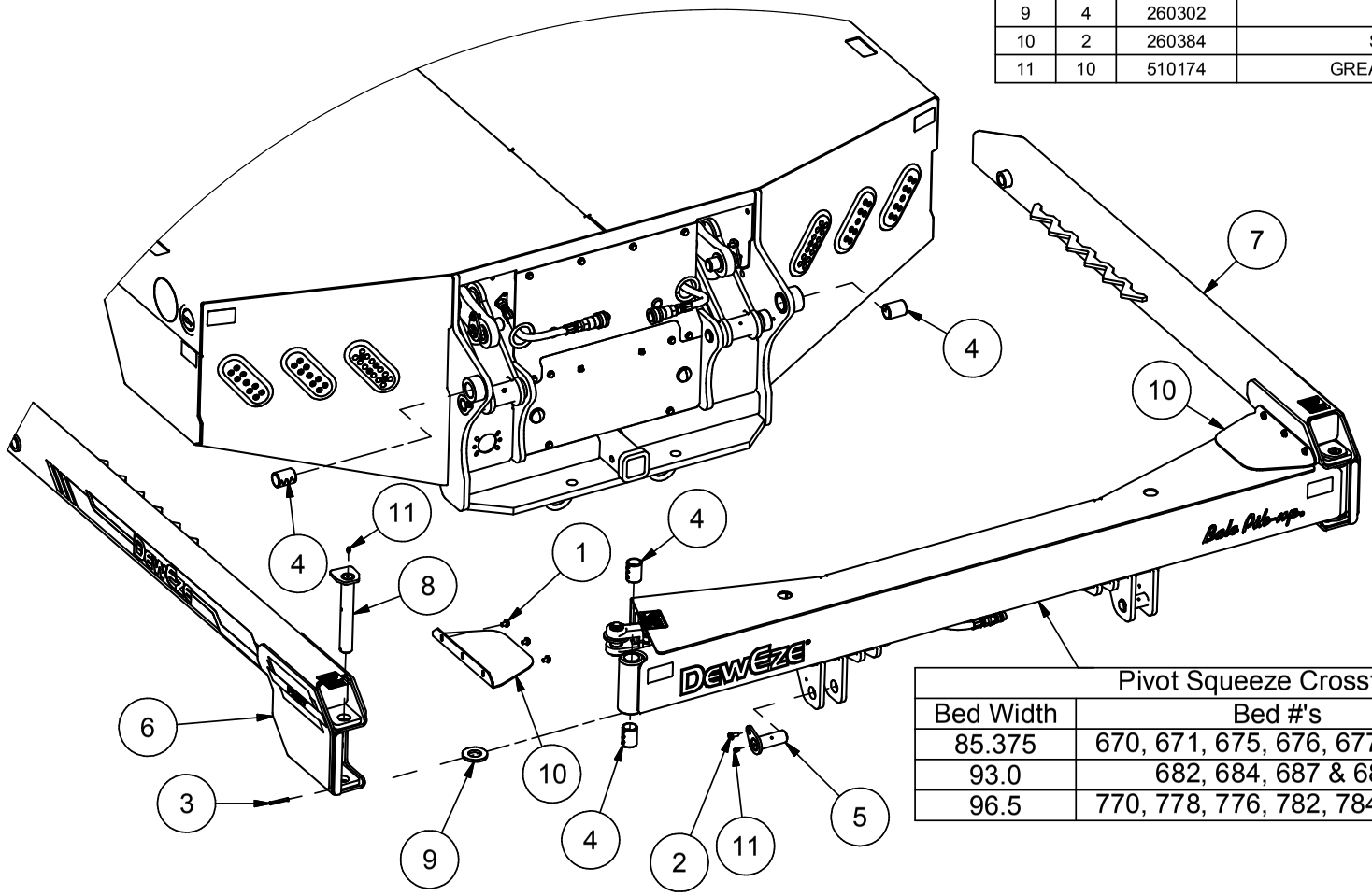
Pivot Squeeze Crosstubes		
Bed Width	Bed #'s	Part #
85.375	675	215236
93.0	682 & 684	215240
96.5	778	215241

8/29/2013

Pivot Squeeze Crosstube & Arms

Starting S/N's 2014

Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	6	110426	BOLT, 5/16-18 X 0.5, WIZ FLANGE
2	10	110444	BOLT, 5/16-18 X 0.75, WIZ FLANGE
3	4	200150	ROLL PIN, 1/4 X 2
4	6	202023	BUSHING, 1.5 X 1.25 X 2.0 SPLIT CG/ID
5	2	215140	PIN WELDMENT, 1-1/4 X 3
6	1	215237	Weldment, Pivot Squeeze Arm Left
7	1	215238	Weldment, Pivot Squeeze Arm Right
8	2	215239	Weldment, Pivot Pin
9	4	260302	Shim Washer
10	2	260384	Shield, Pivot Arm
11	10	510174	GREASE ZERK, 1/4-28 ST

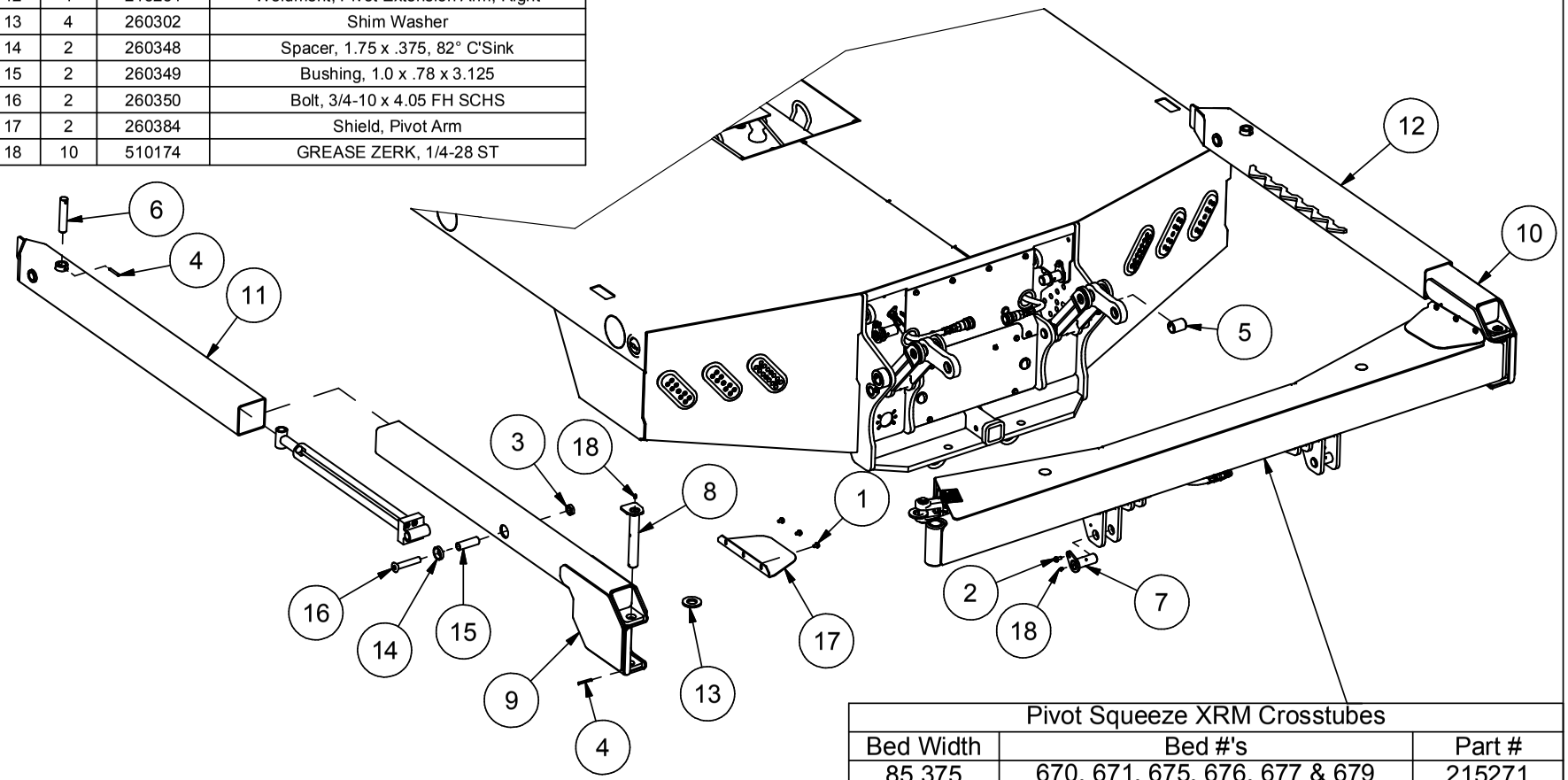


Pivot Squeeze Crosstubes		
Bed Width	Bed #'s	Part #
85.375	670, 671, 675, 676, 677 & 679	215236
93.0	682, 684, 687 & 688	215240
96.5	770, 778, 776, 782, 784 & 788	215241

8/17/2017

Pivot Squeeze XRM Crosstube & Arms

Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	6	110426	BOLT, 5/16-18 X 0.5, WIZ FLANGE
2	10	110444	BOLT, 5/16-18 X 0.75, WIZ FLANGE
3	2	111036	Heavy JamHexNut 3_4-10 UNC
4	6	200150	ROLL PIN, 1/4 X 2
5	2	202023	BUSHING, 1.5 X 1.25 X 2.0 SPLIT CG/ID
6	2	210941	CYLINDER PIN
7	2	215140	PIN WELDMENT, 1-1/4 X 3
8	2	215239	Weldment, Pivot Pin
9	1	215251	Weldment, Pivot Squeeze XRM Arm Left
10	1	215252	Weldment, Pivot Squeeze XRM Arm Right
11	1	215253	Weldment, Pivot Extension Arm, Left
12	1	215254	Weldment, Pivot Extension Arm, Right
13	4	260302	Shim Washer
14	2	260348	Spacer, 1.75 x .375, 82° C'Sink
15	2	260349	Bushing, 1.0 x .78 x 3.125
16	2	260350	Bolt, 3/4-10 x 4.05 FH SCHS
17	2	260384	Shield, Pivot Arm
18	10	510174	GREASE ZERK, 1/4-28 ST



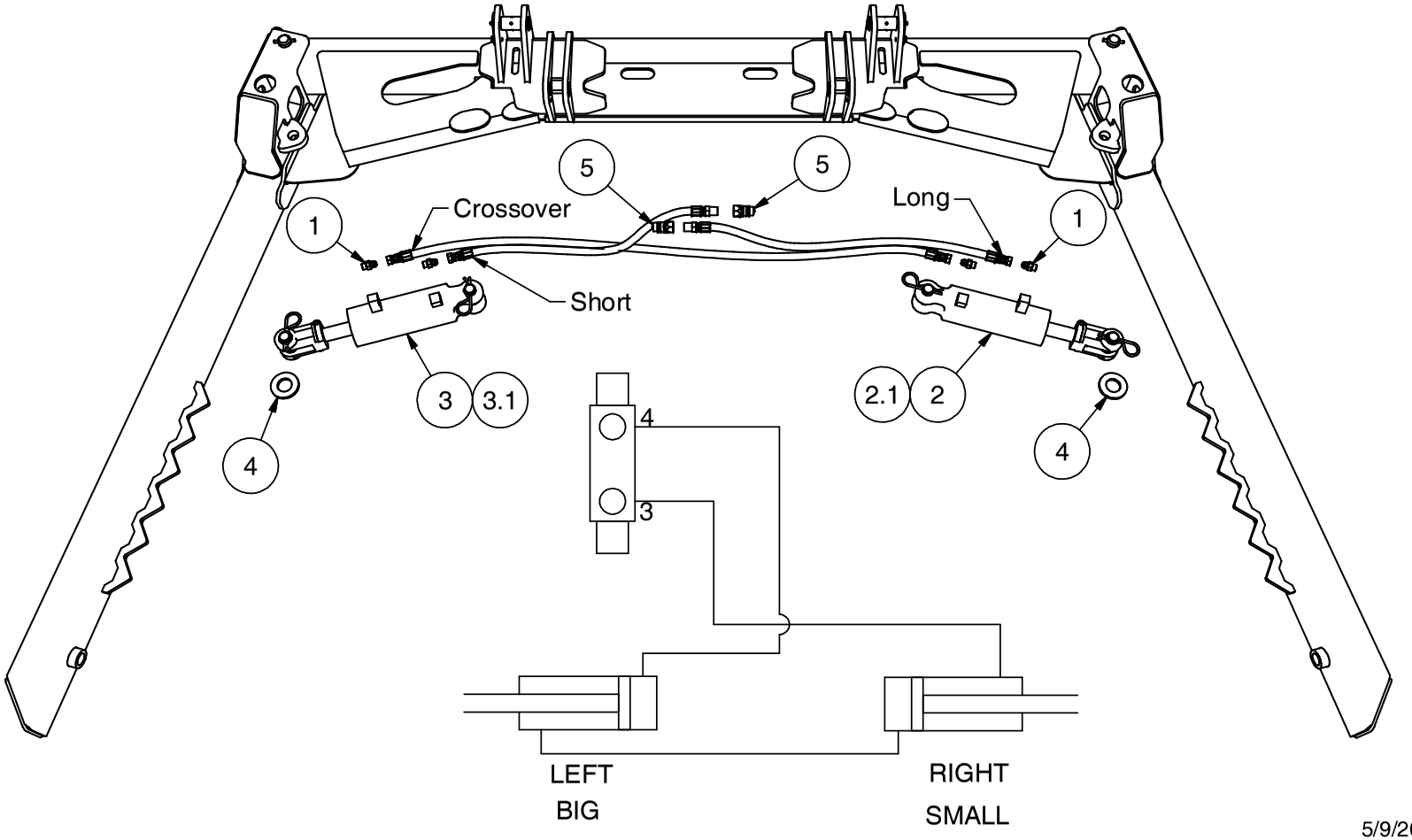
Pivot Squeeze XRM Crosstubes		
Bed Width	Bed #'s	Part #
85.375	670, 671, 675, 676, 677 & 679	215271
93.0	682, 684, 687 & 688	215272
96.5	770, 778, 776, 782, 784, 787 & 788	215273

8/17/2017

Pivot Squeeze Hydraulics

Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	4	120319	ADAPTER, 6MJ-6MB
2	1	223042	Pivot Cylinder, 3.0 x 5.0
2.1		212021	Seal Kit
3	1	223043	Pivot Cylinder, 3.25 x 5.0
3.1		212025	Seal Kit
4	4	260302	Shim Washer
5	2	420005	COUPLER, PIONEER MALE

Pivot Squeeze Hoses			
Hoses	67-	68-	7--
Pivot Squeeze Crossover	220711 (56in)	220716 (62.5in)	220714 (66in)
Pivot Squeeze Short	220712 (27in)	220717 (30in)	220713 (32in)
Pivot Squeeze Long	220713 (32in)	220718 (35in)	220715 (37in)
Kit number	223048	223049	223050

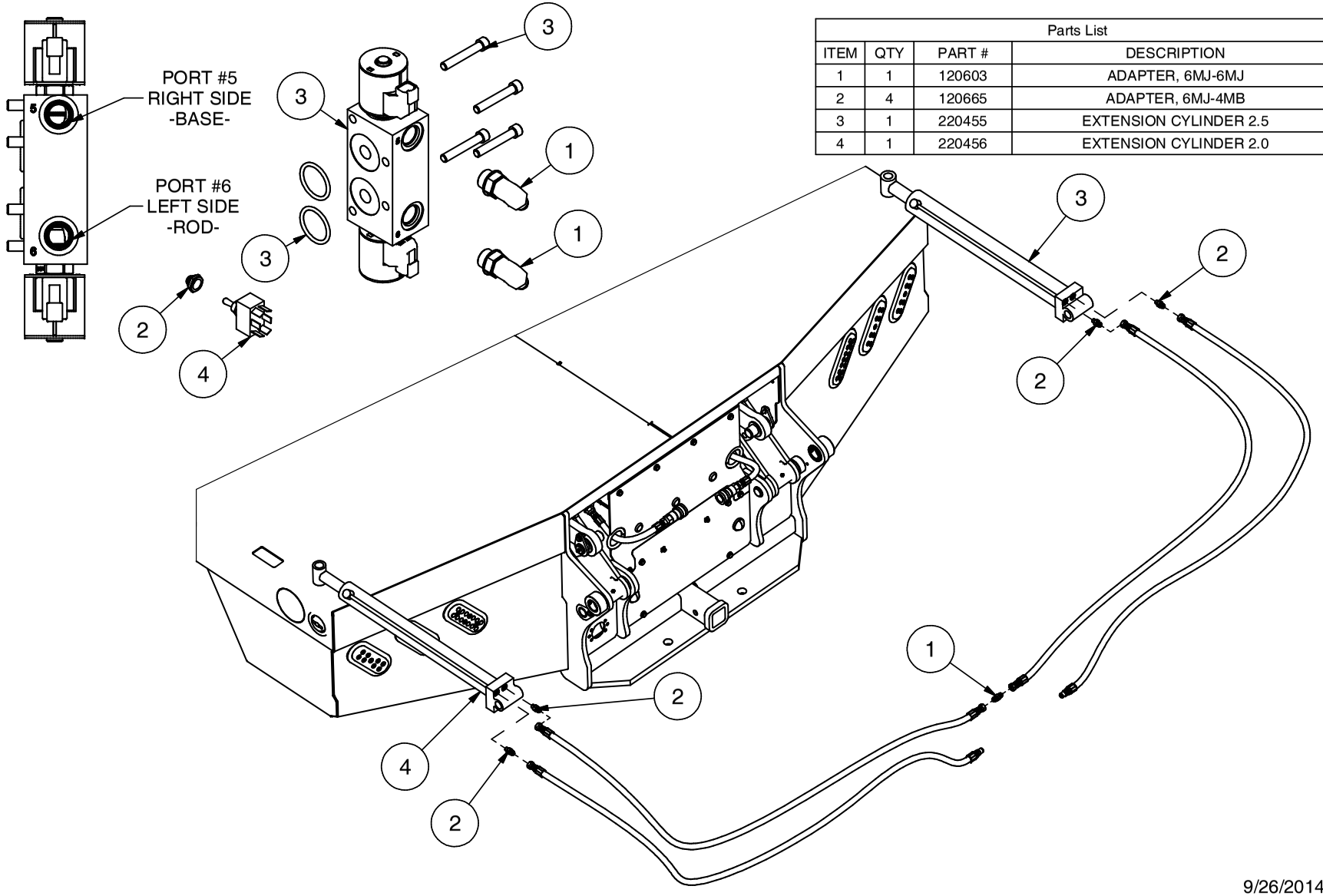


5/9/2014

Pivot Squeeze XRM Hydraulics

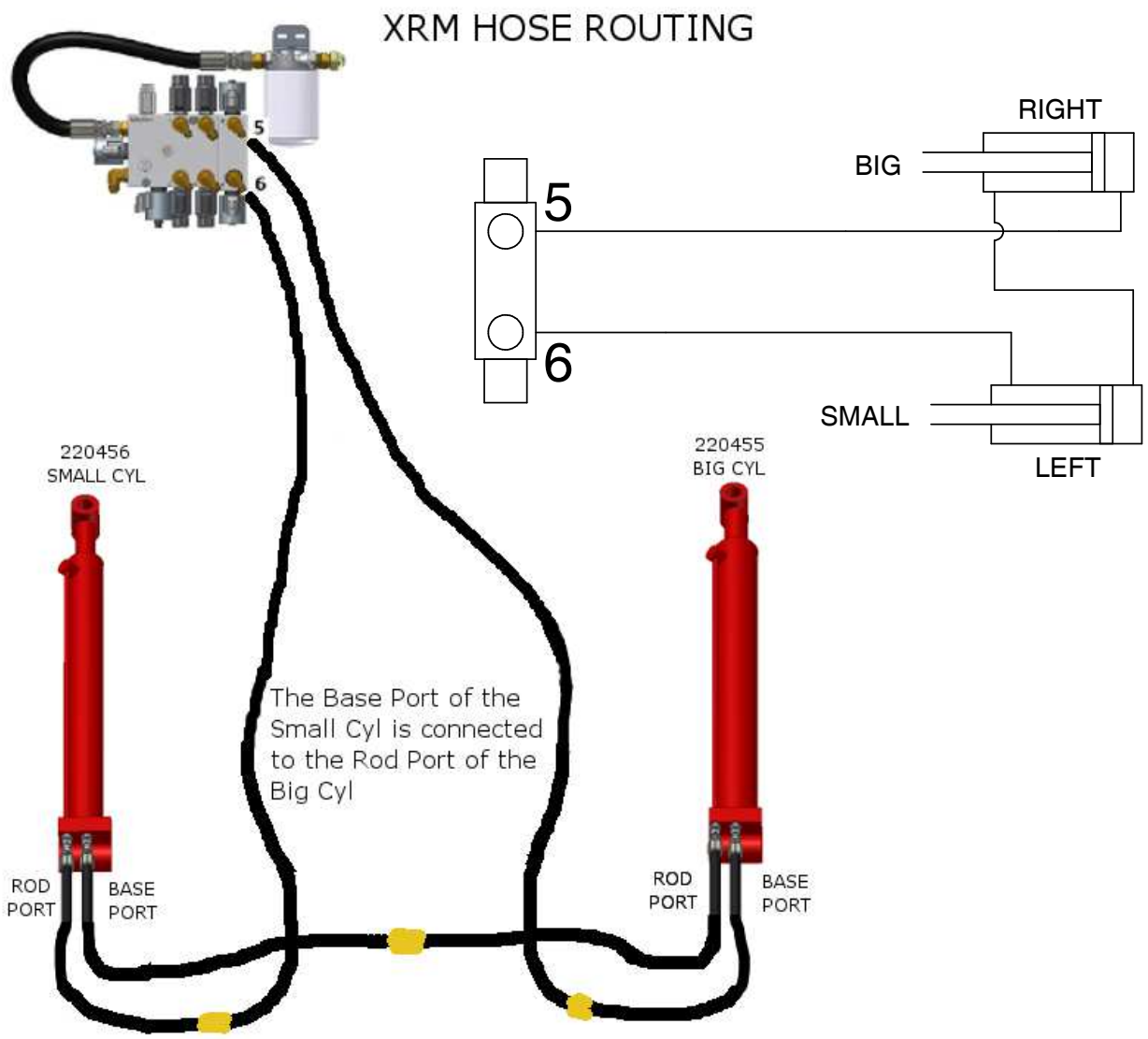
Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	2	120134	ADAPTER, 6MJ-8MB90
2	1	132035	SWITCH BOOT
3	1	223045	Valve, 3rd Bank add on (223044)
4	1	232086	SWITCH, DPDT, M, 6 PIN, PUSH ON

Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	1	120603	ADAPTER, 6MJ-6MJ
2	4	120665	ADAPTER, 6MJ-4MB
3	1	220455	EXTENSION CYLINDER 2.5
4	1	220456	EXTENSION CYLINDER 2.0



9/26/2014

Pivot Squeeze XRM Hydraulics

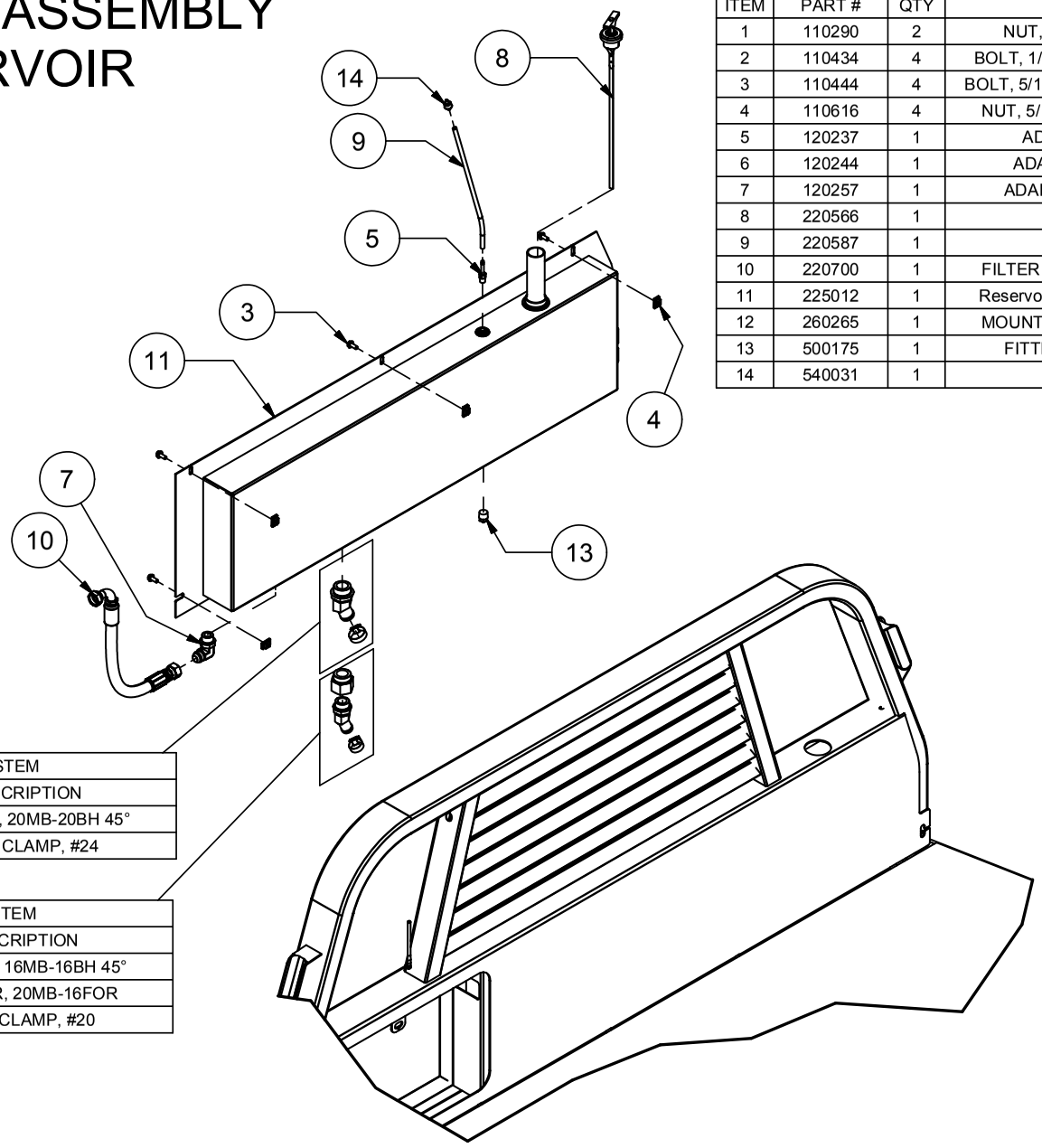


Pivot Squeeze XRM Valve Hoses				
Hoses	--70	--75	--82	--87
Pivot XRM Front to Back (2ea)	220728 (111 in)	220729 (127 in)	220644 (137 in)	220731 (163in)
Kit	223063	223064	223065	223066

Pivot Squeeze XRM Hoses			
Hoses	67-	68-	7--
XRM Crossover	220732 (64 in)	220733 (72 in)	220734 (75 in)
XRM To Valve	220735 (69 in)	220736 (77 in)	220737 (80 in)
Kit number	223060	223061	223062

9/26/2014

HYDRAULIC ASSEMBLY RESERVOIR



Parts List			
ITEM	PART #	QTY	DESCRIPTION
1	110290	2	NUT, 1/4-20 WIZ FLANGE
2	110434	4	BOLT, 1/4-20 X 0.5, WIZ FLANGE
3	110444	4	BOLT, 5/16-18 X 0.75, WIZ FLANGE
4	110616	4	NUT, 5/16", J-TYPE, CAGE, .5C
5	120237	1	ADAPTER, 4BH-4MP
6	120244	1	ADAPTER, 12MJ-12MP
7	120257	1	ADAPTER, 12MJ-12MB90
8	220566	1	DIP STICK
9	220587	1	VENT HOSE
10	220700	1	FILTER TO RESERVOIR HOSE
11	225012	1	Reservoir, Flatbed, Remote Filter
12	260265	1	MOUNTING BRACKET, FILTER
13	500175	1	FITTING, PLUG 1/2" PIPE
14	540031	1	FUEL FILTER

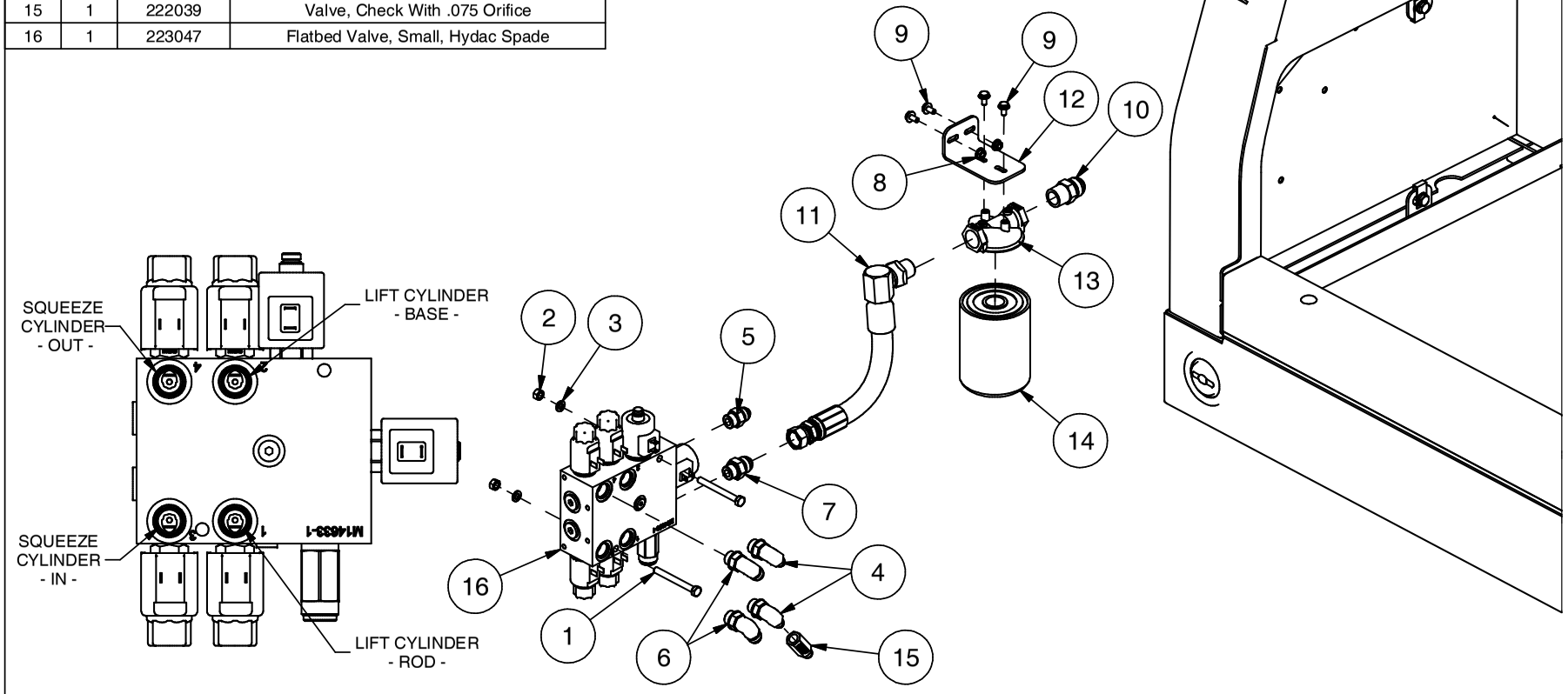
12 & 17 GALLON SYSTEM		
PART #	QTY	DESCRIPTION
120189	1	ADAPTER, 20MB-20BH 45°
511002	1	HOSE CLAMP, #24

5, 7 & 9 GALLON SYSTEM		
PART #	QTY	DESCRIPTION
120188	1	ADAPTER, 16MB-16BH 45°
120511	1	ADAPTER, 20MB-16FOR
720107	1	HOSE CLAMP, #20

6/15/2012

Pivot Squeeze Valve & Filter

Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	2	110538	BOLT, 5/16-18 X 3.0
2	2	110608	NUT, 5/16-18
3	2	110674	WASHER, 5/16" LOCK
4	2	120134	ADAPTER, 6MJ-8MB90
5	1	120277	ADAPTER, 8MJ-8MB
6	2	120288	ADAPTER, 8MJ-8MB90
7	1	120493	ADAPTER, 10MJ-8MB
8	2	110290	NUT, 1/4-20 WIZ FLANGE
9	4	110434	BOLT, 1/4-20 X 0.5, WIZ FLANGE
10	1	120244	ADAPTER, 12MJ-12MP
11	1	220691	RESERVOIR RETURN
12	1	260265	MOUNTING BRACKET, FILTER
13	1	720041	FILTER HEAD
14	1	720043	FILTER, 10 MICRON
15	1	222039	Valve, Check With .075 Orifice
16	1	223047	Flatbed Valve, Small, Hydac Spade

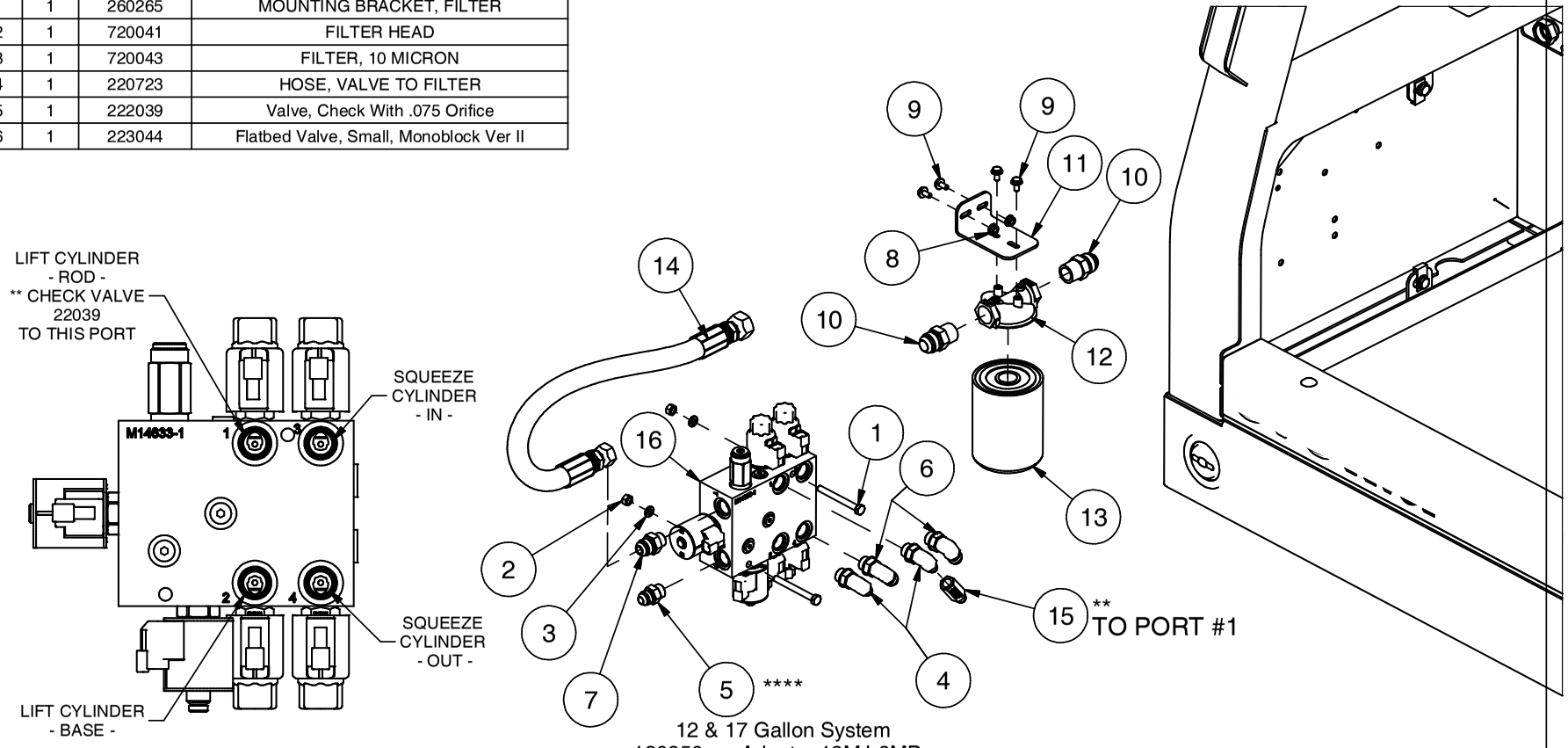


8/29/2013

Valve & Filter

Gen 3 Double Poppet

Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	2	110538	BOLT, 5/16-18 X 3.0
2	2	110608	NUT, 5/16-18
3	2	110674	WASHER, 5/16" LOCK
4	2	120134	ADAPTER, 6MJ-8MB90
5	1	120277	ADAPTER, 8MJ-8MB
6	2	120288	ADAPTER, 8MJ-8MB90
7	1	120493	ADAPTER, 10MJ-8MB
8	2	110290	NUT, 1/4-20 WIZ FLANGE
9	4	110434	BOLT, 1/4-20 X 0.5, WIZ FLANGE
10	2	120244	ADAPTER, 12MJ-12MP
11	1	260265	MOUNTING BRACKET, FILTER
12	1	720041	FILTER HEAD
13	1	720043	FILTER, 10 MICRON
14	1	220723	HOSE, VALVE TO FILTER
15	1	222039	Valve, Check With .075 Orifice
16	1	223044	Flatbed Valve, Small, Monoblock Ver II

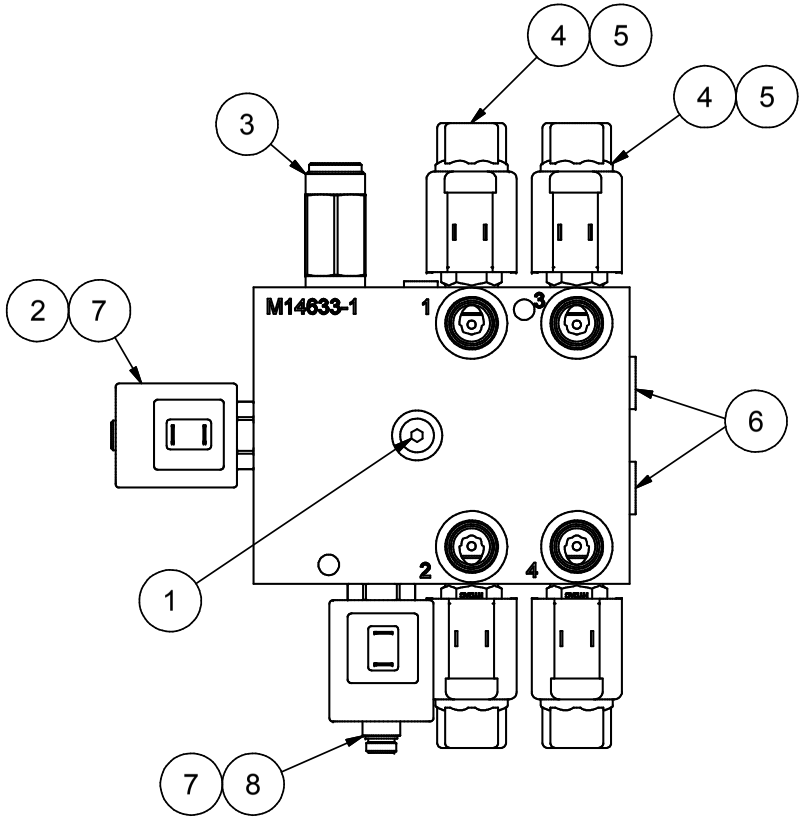


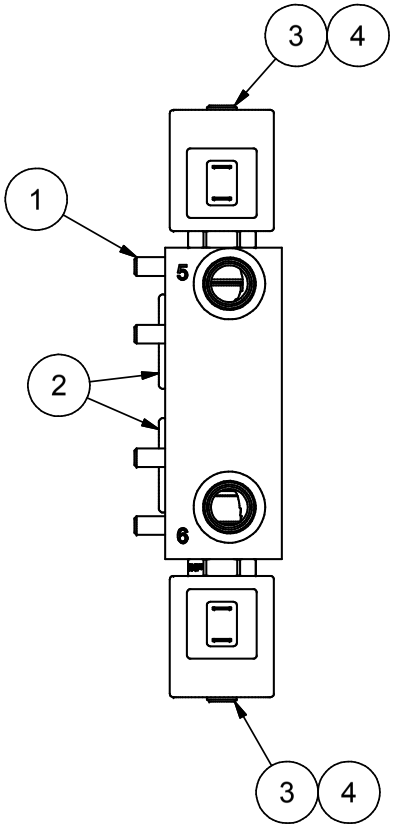
12 & 17 Gallon System
120250 -- Adapter 12MJ-8MB

Also As Required
120368 -- Adapter 8mj-8fjx90
120267 -- Adapter 12mj-12fjx90

9/18/2014

GEN 2 VALVE
-08 HYDAC DUAL SPADE
SERVICE PARTS





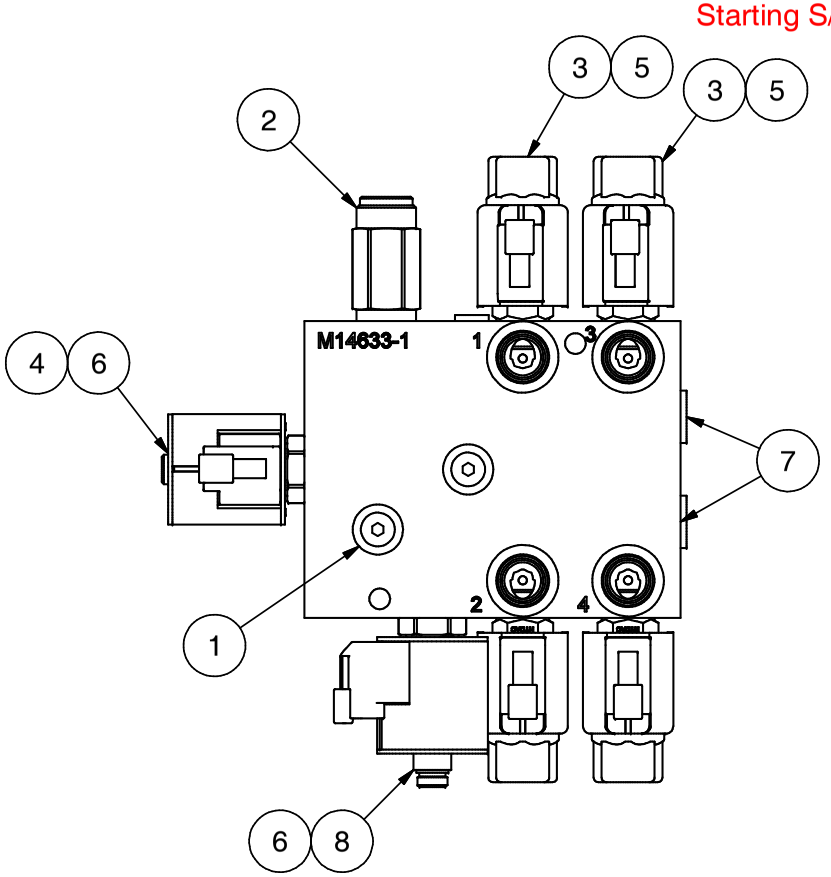
Flatbed Valve, Small, Hydac Spade P/N 223047			
ITEM	QTY	PART #	DESCRIPTION
1	1	120062	O-Ring Plug, #4 7/16-20
2	1	222002	Valve, Directional, 4-Way
3	1	222004	Valve, Pressure Relief
4	4	222010	Cartridge, #8 HYDAC Double Poppet
5	4	222011	Coil, #8 Hydac, Dual Spade
6	2	720164	O-Ring Plug, #8 3/4-16
7	2	820229	COIL, #10 DUAL SPADE
8	1	820232	Spool, #10 Valve

VALVE, 3rd BANK ADD ON P/N 223017			
ITEM	QTY	PART #	DESCRIPTION
1	4	110168	BOLT, 5/16-18 X 2.0 SHCS
2	2	120376	O'RING, -219, 90 DURO
3	2	222003	Valve, Poppet N.C. SOL VALVE
4	2	820229	COIL, #10 DUAL SPADE

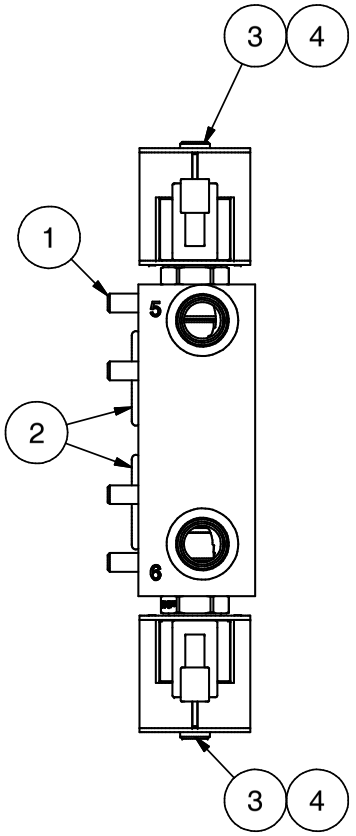
8/28/2013

GEN 3 VALVE
-08 HYDAC DEUTSCH
SERVICE PARTS

Starting S/N's 2014



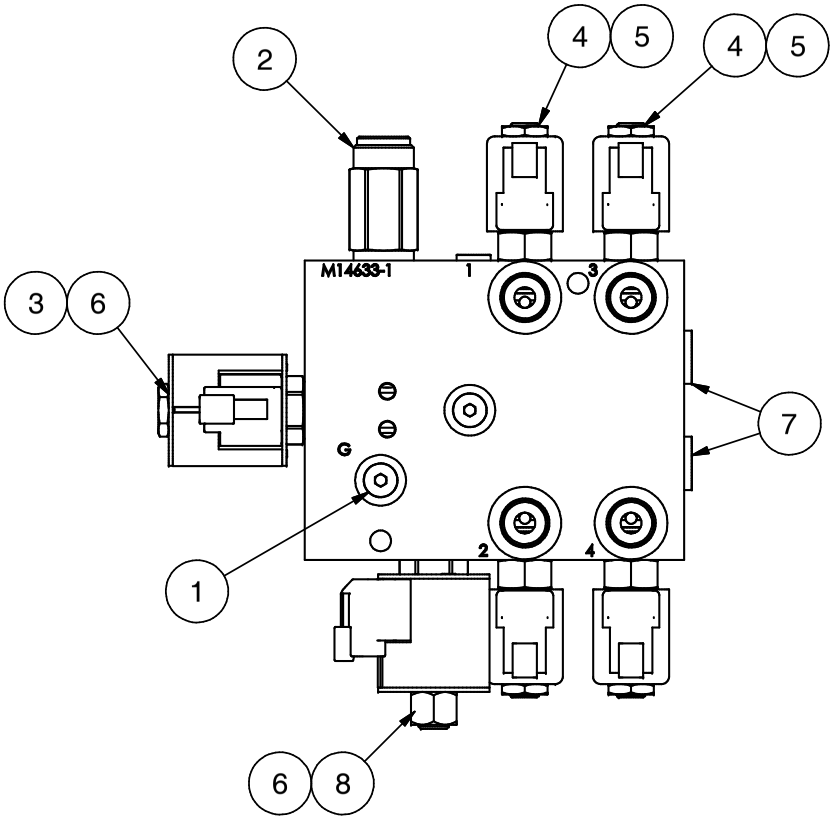
Flatbed Valve, Small, Hydac Deutsch P/N 223044			
ITEM	QTY	PART #	DESCRIPTION
1	2	120062	O-Ring Plug, #4 7/16-20
2	1	222004	Valve, Pressure Relief
3	4	222010	Cartridge, #8 HYDAC Double Poppet
4	1	222045	#10 SOLENOID, 2 POSITION 4 WAY
5	4	222050	Coil, #8 Hydac, Deutsch DT04-2P
6	2	522163	#10 E-COIL, 12 VDC, DEUTSCH DT04-2P
7	2	720164	O-Ring Plug, #8 3/4-16
8	1	820232	Spool, #10 Valve

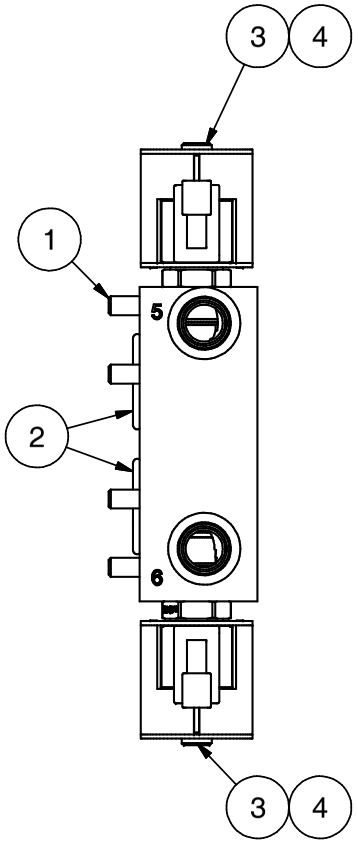


Valve, 3rd Bank add on P/N 223045			
ITEM	QTY	PART #	DESCRIPTION
1	4	110168	BOLT, 5/16-18 X 2.0 SHCS
2	2	120376	O'RING, -219, 90 DURO
3	2	222003	Valve, Poppet N.C. SOL VALVE
4	2	522163	#10 E-COIL, 12 VDC, DEUTSCH DT04-2P

12/5/2014

GEN 3 VALVE
-08 EATON DEUTSCH
SERVICE PARTS
Starting S/N's Late 2015





Flatbed Valve, Small, Eaton Deutsch P/N 223044			
ITEM	QTY	PART #	DESCRIPTION
1	3	120062	O-Ring Plug, #4 7/16-20
2	1	222004	Valve, Pressure Relief
3	1	222045	#10 SOLENOID, 2 POSITION 4 WAY
4	4	222056	Valve, #8 Eaton, Dbl Poppet
5	4	222057	Coil, #8 Eaton, 12V, Deutsch DT04-2P
6	2	522163	#10 E-COIL, 12 VDC, DEUTSCH DT04-2P
7	2	720164	O-Ring Plug, #8 3/4-16
8	1	820232	Spool, #10 Valve

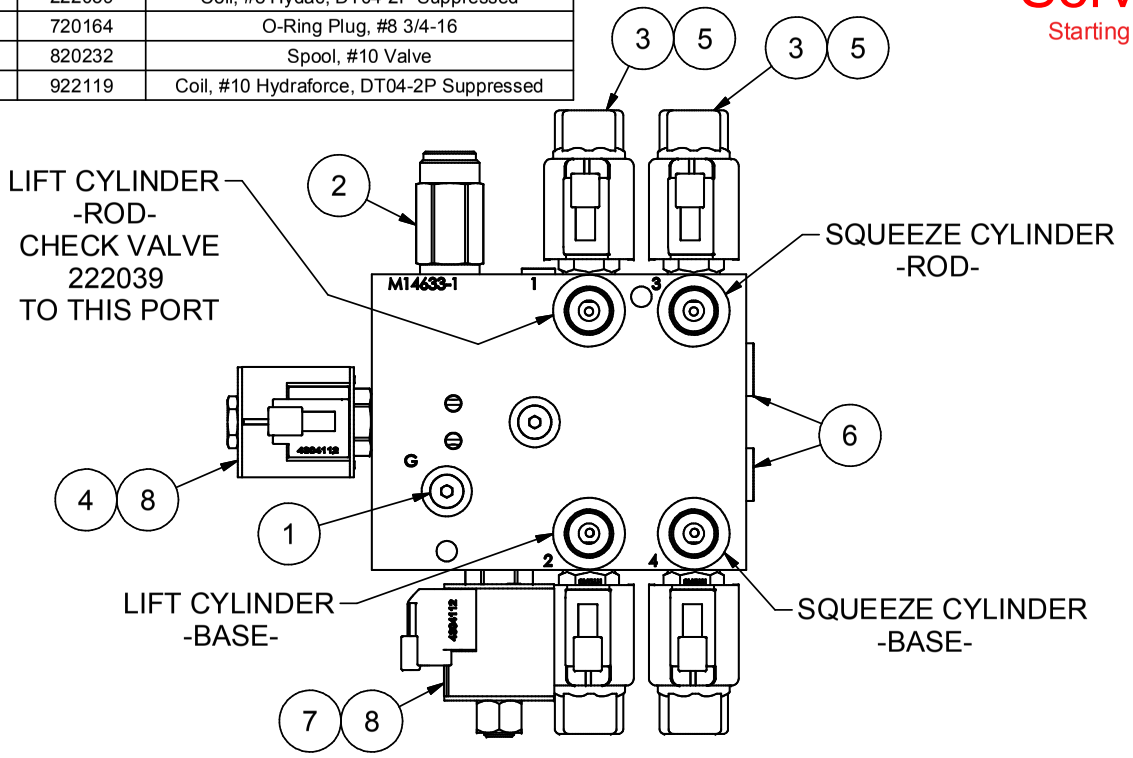
Valve, 3rd Bank add on P/N 223045			
ITEM	QTY	PART #	DESCRIPTION
1	4	110168	BOLT, 5/16-18 X 2.0 SHCS
2	2	120376	O'RING, -219, 90 DURO
3	2	222003	Valve, Poppet N.C. SOL VALVE
4	2	522163	#10 E-COIL, 12 VDC, DEUTSCH DT04-2P

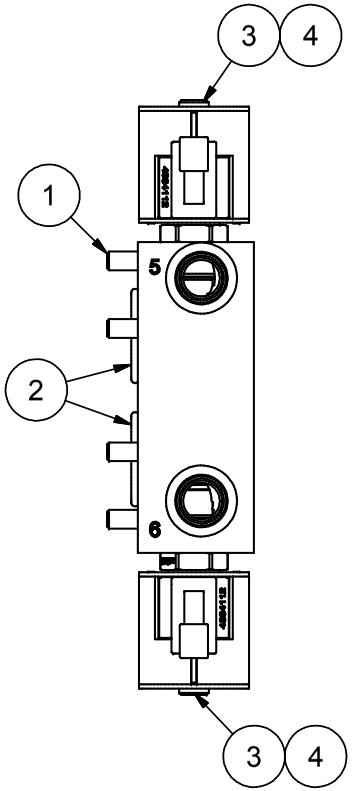
8/24/2015

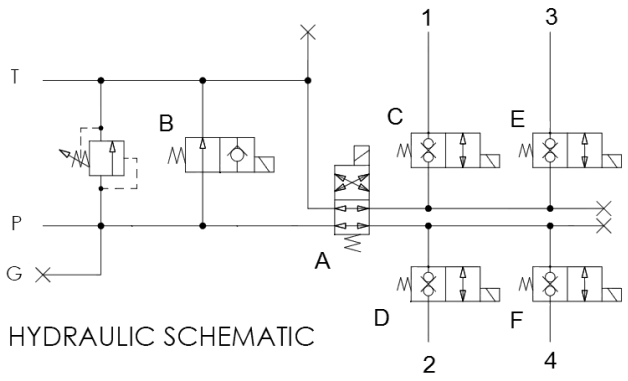
Flatbed Valve
-08 Hydac Deutsch
Service Parts

Starting S/N's Late 2016

Flatbed Valve, Small, Hydac Deutsch P/N 223044			
ITEM	QTY	PART #	DESCRIPTION
1	3	120062	O-Ring Plug, #4 7/16-20
2	1	222004	Valve, Pressure Relief
3	4	222010	Cartridge, #8 HYDAC Double Poppet
4	1	222045	#10 SOLENOID, 2 POSITION 4 WAY
5	4	222059	Coil, #8 Hydac, DT04-2P Suppressed
6	2	720164	O-Ring Plug, #8 3/4-16
7	1	820232	Spool, #10 Valve
8	2	922119	Coil, #10 Hydraforce, DT04-2P Suppressed



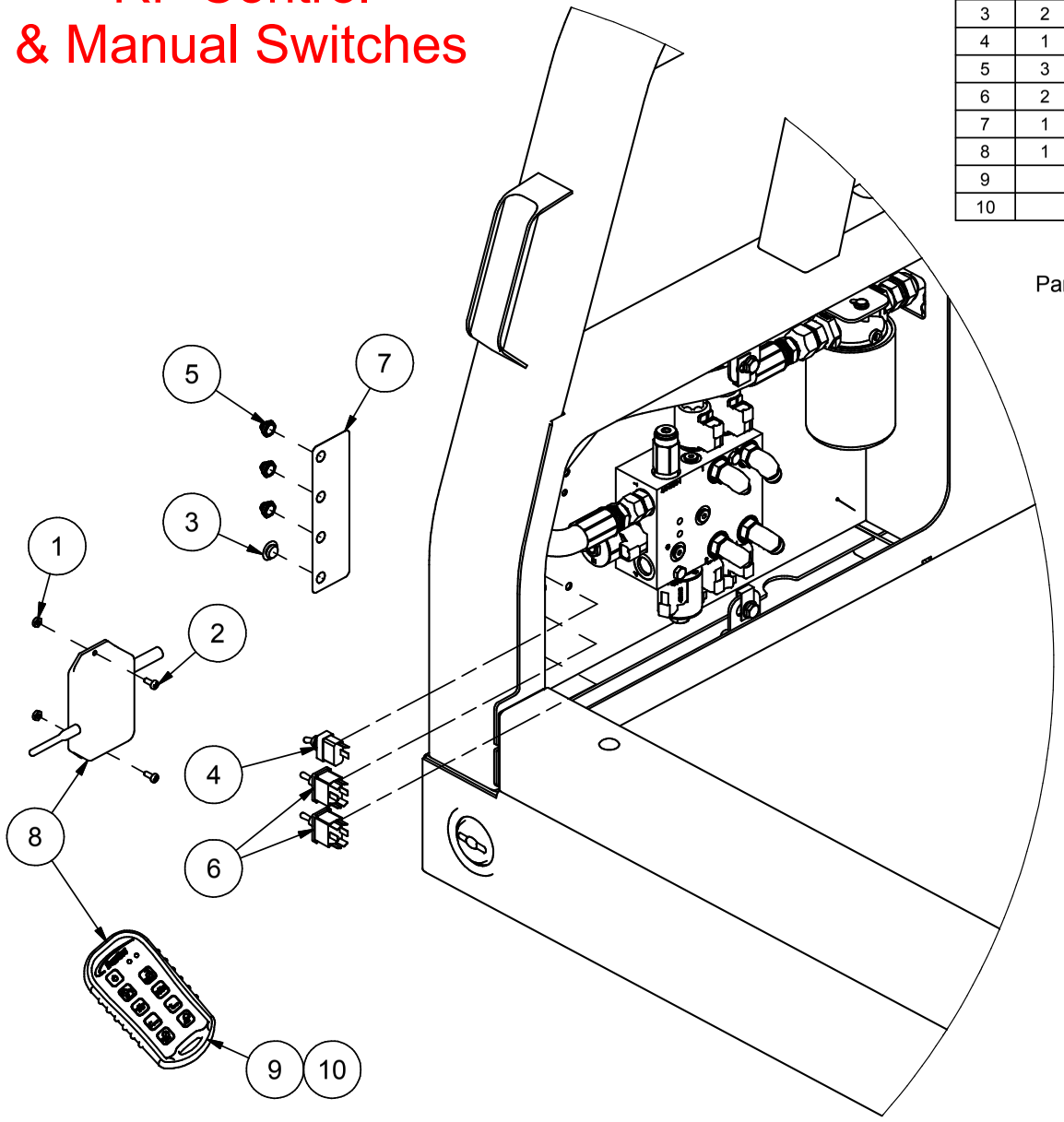




Valve, 3rd Bank add on P/N 223045			
ITEM	QTY	PART #	DESCRIPTION
1	4	110168	BOLT, 5/16-18 X 2.0 SHCS
2	2	120376	O'RING, -219, 90 DURO
3	2	222003	Valve, Poppet N.C. SOL VALVE
4	2	922119	Coil, #10 Hydraforce, DT04-2P Suppressed

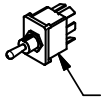
11/9/2016

RF Control & Manual Switches



Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	3	110119	NUT, 10-24 LOCK
2	3	110264	BOLT, 10-24 X .5 STAINLESS, PHILLIPS
3	2	110753	PLUG, 1/2" BUTTON PLASTIC
4	1	132027	Switch, Spst, Toggle .250 Tab
5	3	132035	SWITCH BOOT
6	2	132127	Switch, Toggle, DPDT, (On)-OFF-(ON)
7	1	202003	DECAL, SWITCH IDENTIFICATION
8	1	233003	Transmitter & Receiver, Kar-Tech
9		233004	Transmitter, Kar-Tech
10			Two AA Batteries

Part # 132134



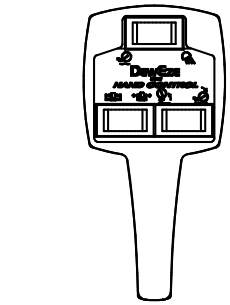
Note: Optional Latching Switch On-Off-On is Available

11/15/2016

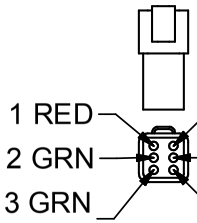
Flatbed Hand Control Options

2 Bank

Hand Control
150044



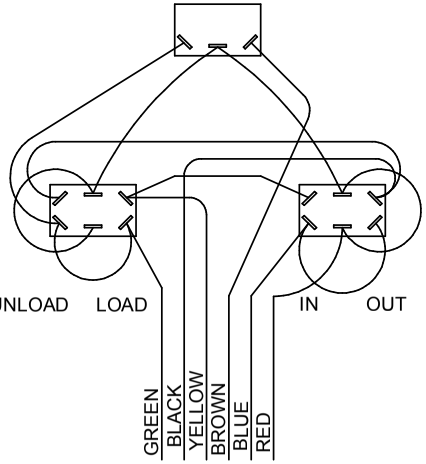
3 BRN — 4 BLU
2 GRN — 5 YEL
1 RED — 6 BLK



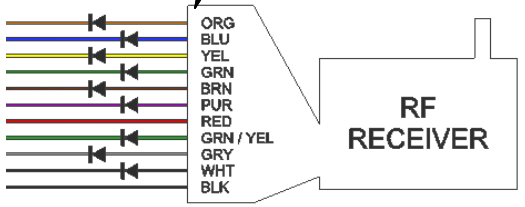
1 RED — 6 PUR
2 GRN — 5 YEL
3 GRN /YEL — 4 BLU

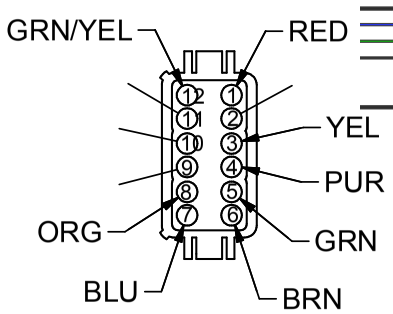
Harness
232105

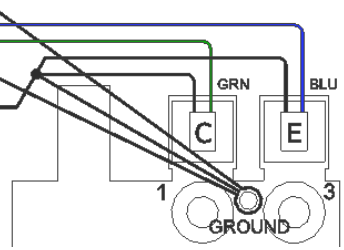
Wiring Diagram
Switches Shown From Back Side



Plug in Hand Control
in Place of Receiver on
Flatbed Valve Harness
232098

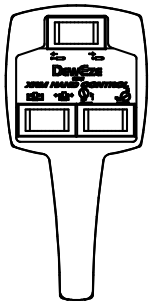




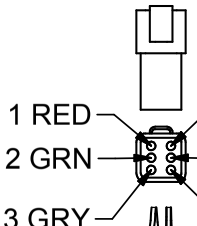


3 Bank

Hand Control
150045



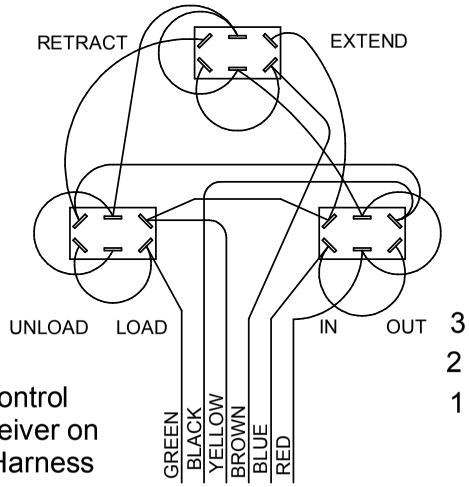
3 BRN — 4 BLU
2 GRN — 5 YEL
1 RED — 6 BLK

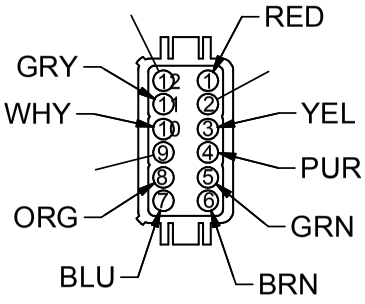


1 RED — 6 PUR
2 GRN — 5 YEL
3 GRY — 4 BLU

Harness
232106

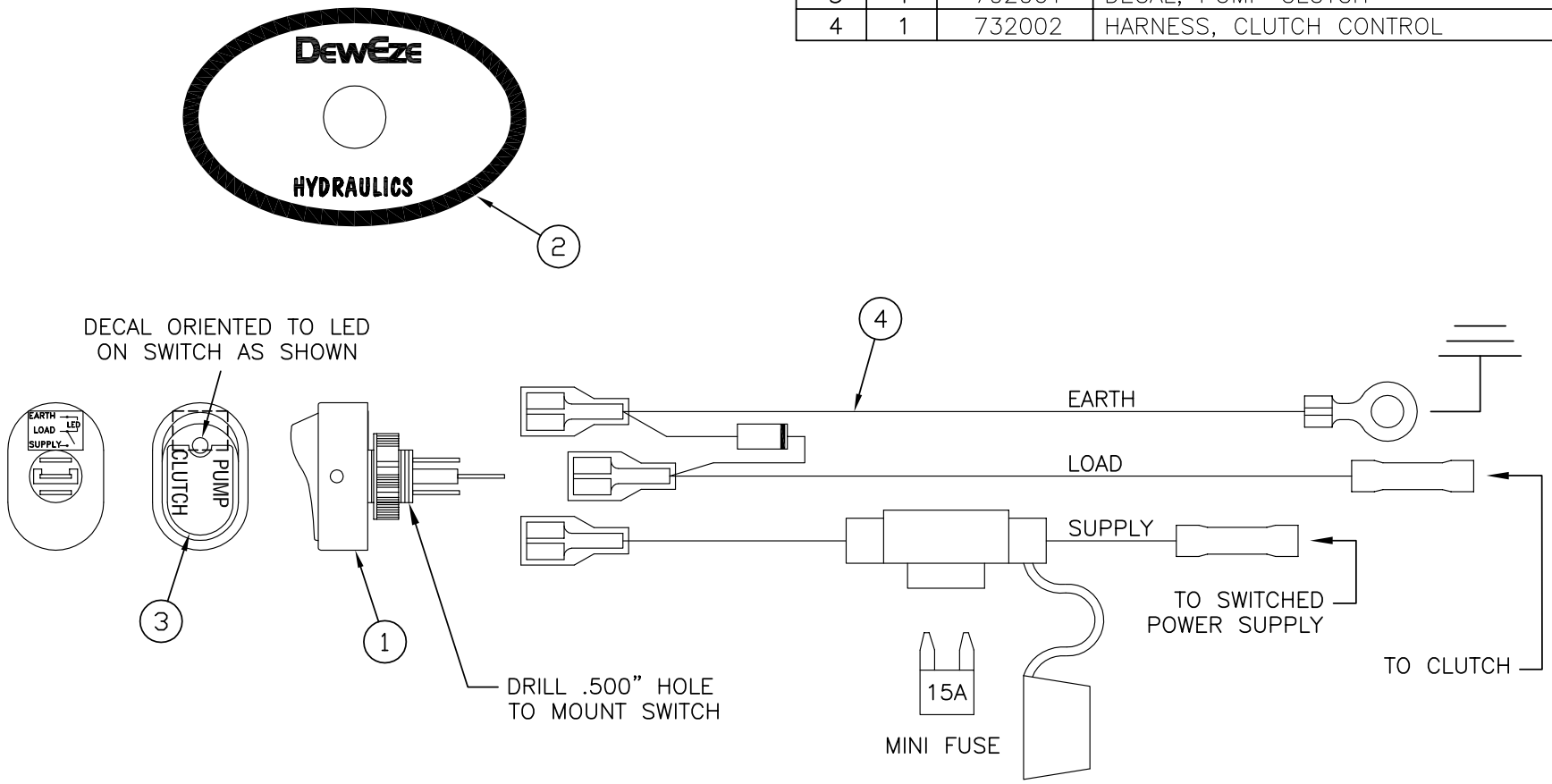
Wiring Diagram
Switches Shown From Back Side





8/17/2017

ITEM	QUAN	PART #	NAME
1	1	132044	SWITCH, SPST ROCKER LED
2	1	702002	DECAL, DEWEZE HYDRAULICS
3	1	702061	DECAL, PUMP CLUTCH
4	1	732002	HARNESS, CLUTCH CONTROL

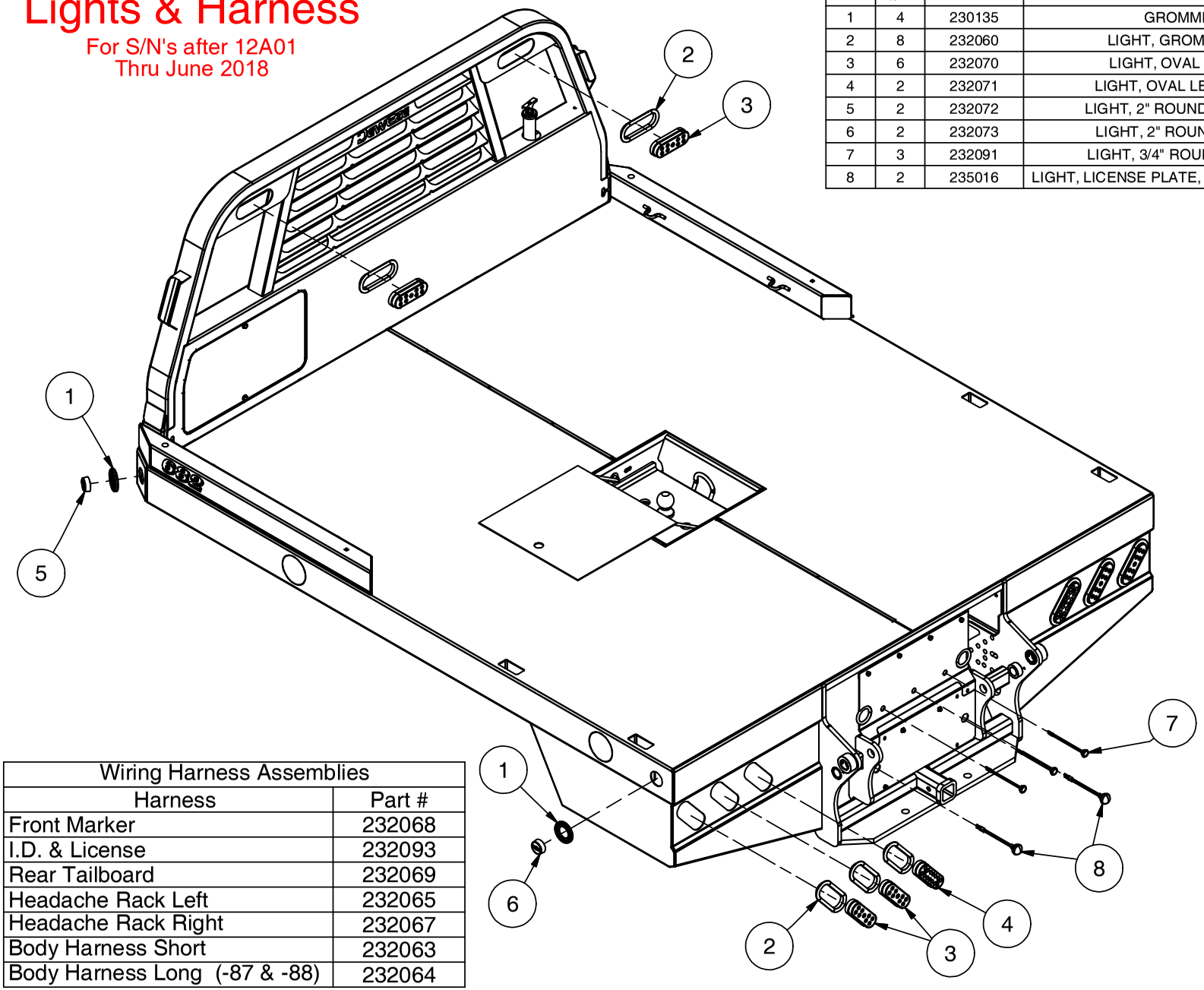


SWITCH, CLUTCH CONTROL ASSY 735001

Lights & Harness

For S/N's after 12A01
Thru June 2018

Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	4	230135	GROMMET, 2"
2	8	232060	LIGHT, GROMMET OVAL
3	6	232070	LIGHT, OVAL LED, S/T/T
4	2	232071	LIGHT, OVAL LED, BACK-UP
5	2	232072	LIGHT, 2" ROUND LED, AMBER
6	2	232073	LIGHT, 2" ROUND LED, RED
7	3	232091	LIGHT, 3/4" ROUND, LED, RED
8	2	235016	LIGHT, LICENSE PLATE, LED W/.180 BULLETS



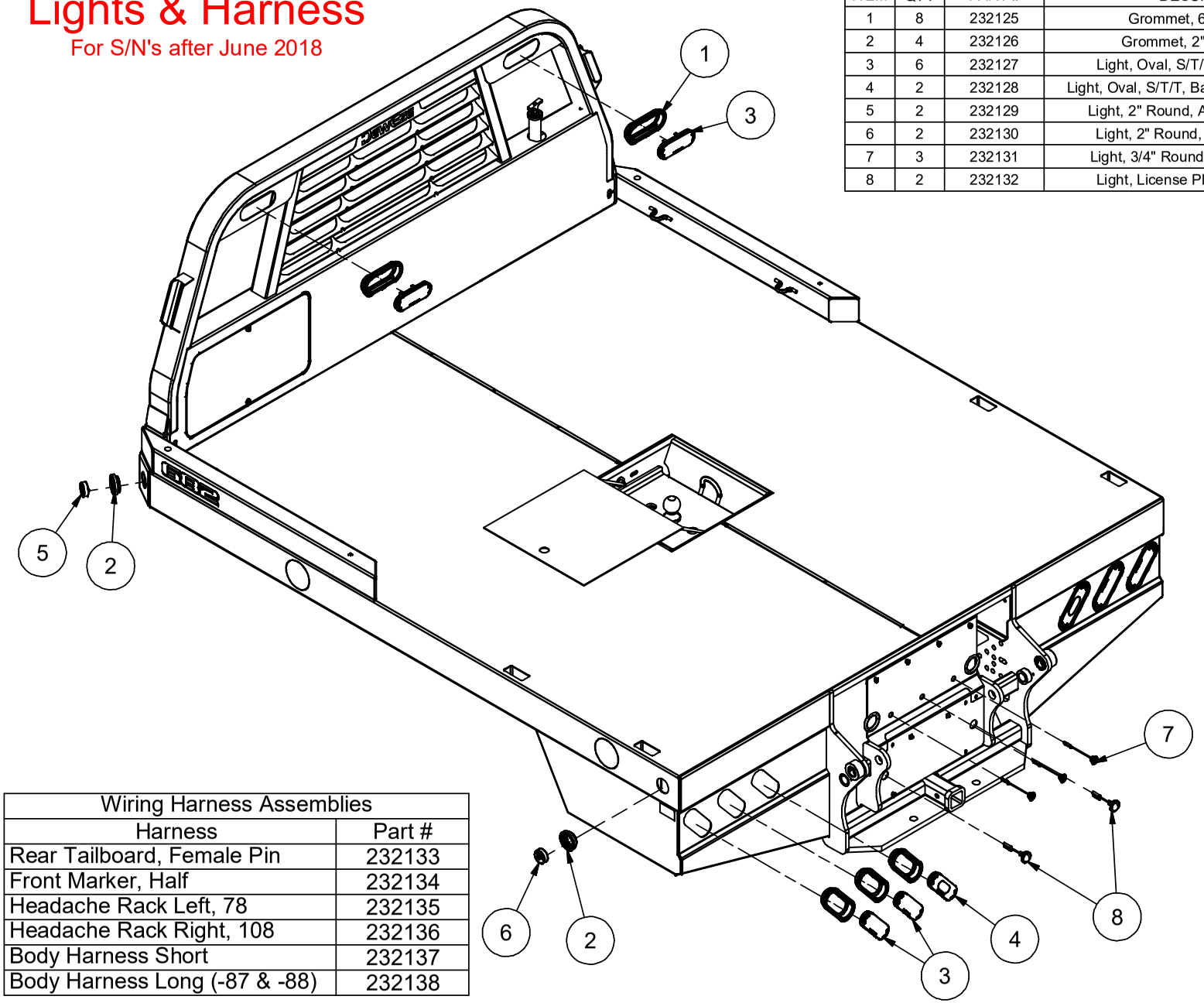
Wiring Harness Assemblies	
Harness	Part #
Front Marker	232068
I.D. & License	232093
Rear Tailboard	232069
Headache Rack Left	232065
Headache Rack Right	232067
Body Harness Short	232063
Body Harness Long (-87 & -88)	232064

9/18/2014

Lights & Harness

For S/N's after June 2018

Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	8	232125	Grommet, 6" Oval, Grote
2	4	232126	Grommet, 2" Round, Grote
3	6	232127	Light, Oval, S/T/T, Male Pin, Grote
4	2	232128	Light, Oval, S/T/T, BackUp, Male Pin, Grote
5	2	232129	Light, 2" Round, Amber, Grote 47113
6	2	232130	Light, 2" Round, Red, Grote 47112
7	3	232131	Light, 3/4" Round, Red, Grote 49332
8	2	232132	Light, License Plate, w/Plug, Grote

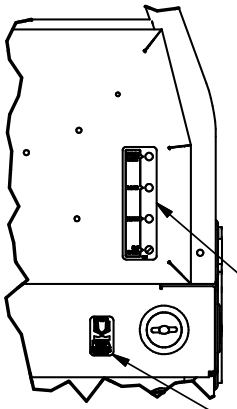


Wiring Harness Assemblies	
Harness	Part #
Rear Tailboard, Female Pin	232133
Front Marker, Half	232134
Headache Rack Left, 78	232135
Headache Rack Right, 108	232136
Body Harness Short	232137
Body Harness Long (-87 & -88)	232138

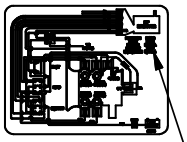
6/8/2018

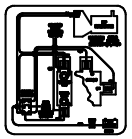
Decals
Safety & Operation
Pivot Squeeze

PART #	QTY	DESCRIPTION
200010	4	DANGER DECAL, HORIZONTAL
200137	1	BALE PIK-UP, SILVER SCRIPT
200144	2	DANGER DECAL, VERTICAL
200181	1	DEWEZE, SILVER OUTLINE
200190	4	REFLECTIVE DECAL
202003	1	DECAL, SWITCH IDENTIFICATION
202045	1	DECAL, WIRING DIAGRAM, KAR-TECH REMOTE
202046	1	DECAL, 3rd BANK OPTION, KAR-TECH REMOTE
202050	3	DECAL, PIVOT
202052	1	DECAL, DOUBLE POPPET VALVE
300002	1	FEMA DECAL

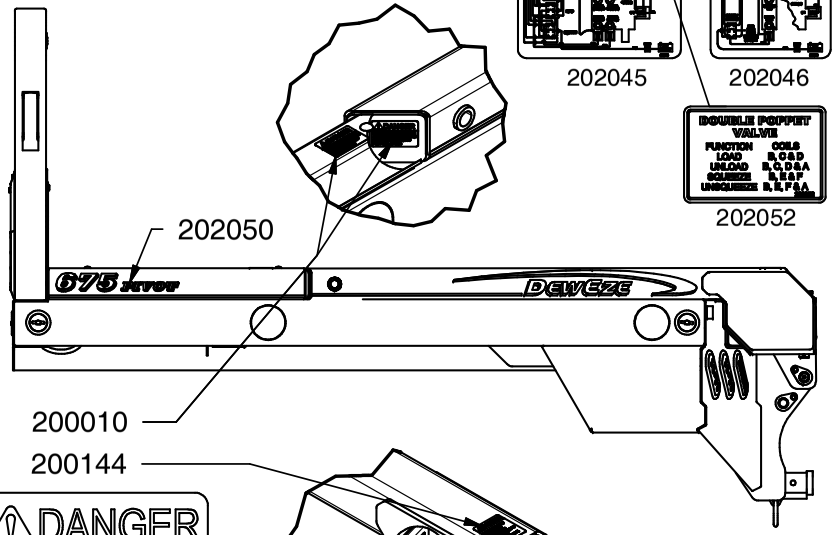


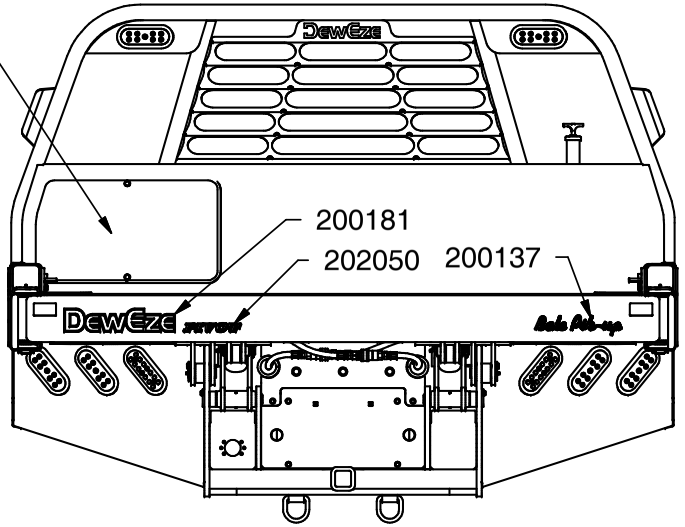
INSIDE OF VALVE COVER
2 BANK 3rd BANK

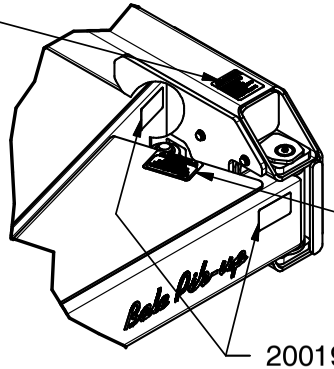

202045


202046

202052







DANGER

KEEP AWAY WHILE MACHINE IS IN OPERATION TO REDUCE POSSIBILITY OF SERIOUS PERSONAL INJURY.

BOTH SIDES

WARNING

SHIELD HAS BEEN REMOVED! REPLACE PRIOR TO MACHINE OPERATION

400014

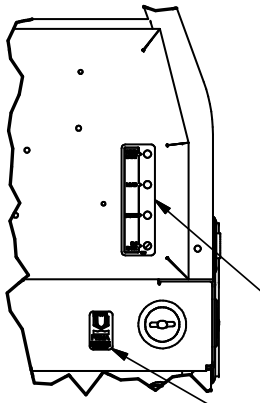
400014

IT IS THE OWNER'S RESPONSIBILITY TO REPLACE MISSING OR DAMAGED WARNING DECALS. DECALS ARE AVAILABLE FROM YOUR DEALER OR FROM THE DEWEZE FACTORY.

10/25/2013

Decals
Safety & Operation
Pivot Squeeze

PART #	QTY	DESCRIPTION
200010	4	DANGER DECAL, HORIZONTAL
202114	1	BALE PIK-UP, SCRIPT, WARM SILVER
200144	2	DANGER DECAL, VERTICAL
202118	1	DEWEZE, OUTLINE, WARM SILVER
200190	6	REFLECTIVE DECAL
202003	1	DECAL, SWITCH IDENTIFICATION
202052	1	DECAL, DOUBLE POPPET VALVE
202053	1	DECAL, WIRING DIAGRAM, KAR-TECH REMOTE
202054	1	DECAL, 3rd BANK OPTION, KAR-TECH REMOTE
300002	1	FEMA DECAL
400014	2	DECAL, SHIELD REMOVED

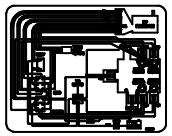


202003

300002

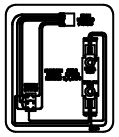
INSIDE OF VALVE COVER

2 BANK



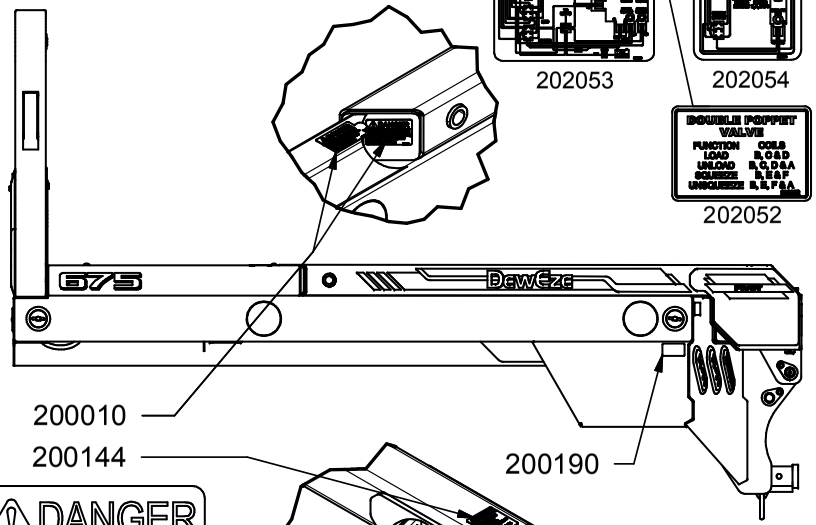
202053

3rd BANK



202054

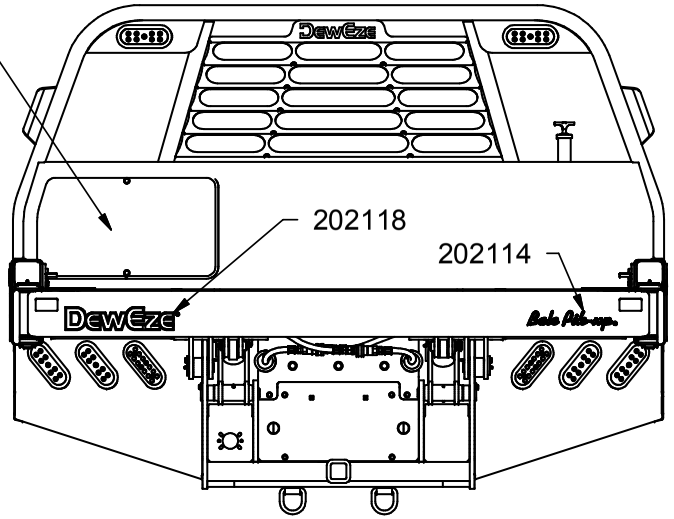
202052



200010

200144

200190



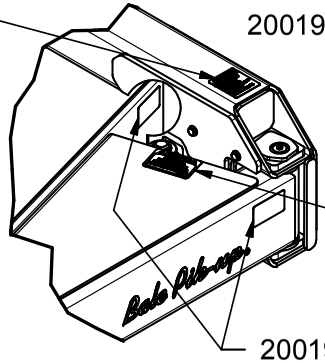
202118

202114

DANGER

KEEP AWAY WHILE MACHINE IS IN OPERATION TO REDUCE POSSIBILITY OF SERIOUS PERSONAL INJURY.

BOTH SIDES



200190

WARNING

SHIELD HAS BEEN REMOVED! REPLACE PRIOR TO MACHINE OPERATION

400014

400014

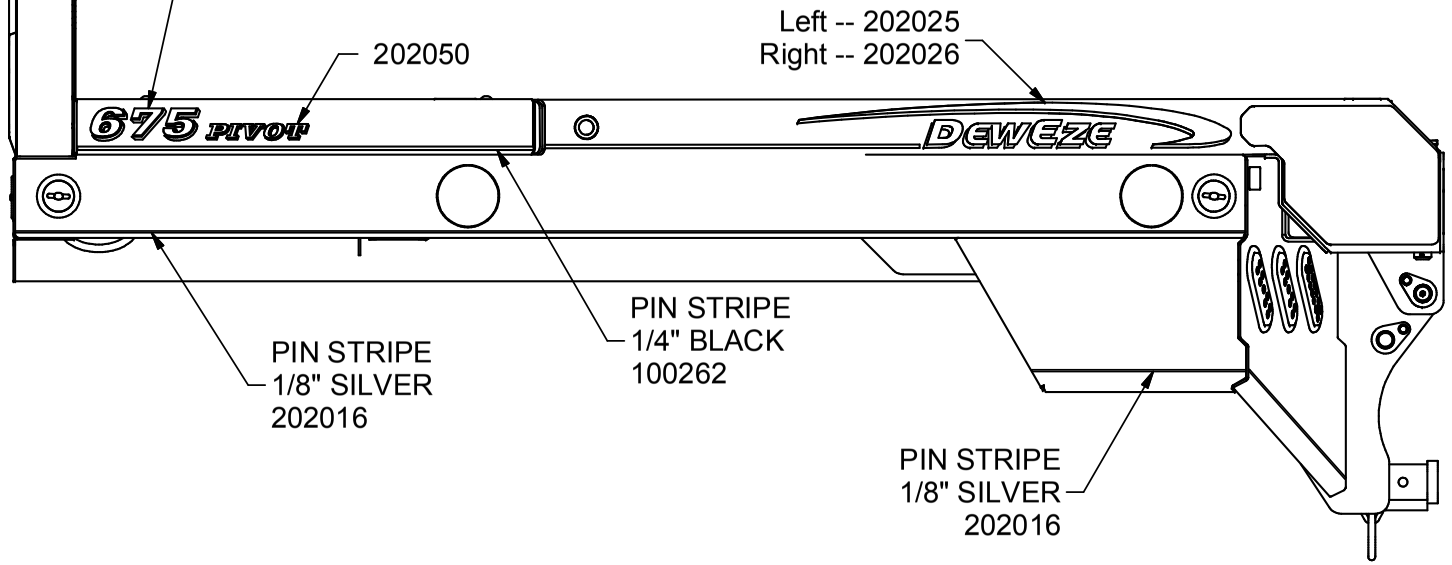
IT IS THE OWNER'S RESPONSIBILITY TO REPLACE MISSING OR DAMAGED WARNING DECALS. DECALS ARE AVAILABLE FROM YOUR DEALER OR FROM THE DEWEZE FACTORY.

8/16/2017

600 & 700 Series Pivot Squeeze Decals

Model # Decals		
Left & Right	Part #	Qty
670	202033	2
675	202027	2
676	202057	2
677	202034	2
679	202035	2
682	202028	2
684	202036	2
687	202037	2
688	202038	2
770	202039	2
778	202029	2
776	202058	2
782	202040	2
784	202041	2
787	202042	2
788	202043	2

Decal Kit, 6-700 Series Part # 205058		
PART #	QTY	DESCRIPTION
200010	4	DANGER DECAL, HORIZONTAL
200137	1	BALE PIK-UP, SILVER SCRIPT
200144	2	DANGER DECAL, VERTICAL
200181	1	DEWEZE, SILVER OUTLINE
200190	4	REFLECTIVE DECAL
202003	1	DECAL, SWITCH IDENTIFICATION
202045	1	DECAL, WIRING DIAGRAM, KAR-TECH REMOTE
202046	1	DECAL, 3rd BANK OPTION, KAR-TECH REMOTE
300002	1	FEMA DECAL
400014	2	DECAL, SHIELD REMOVED

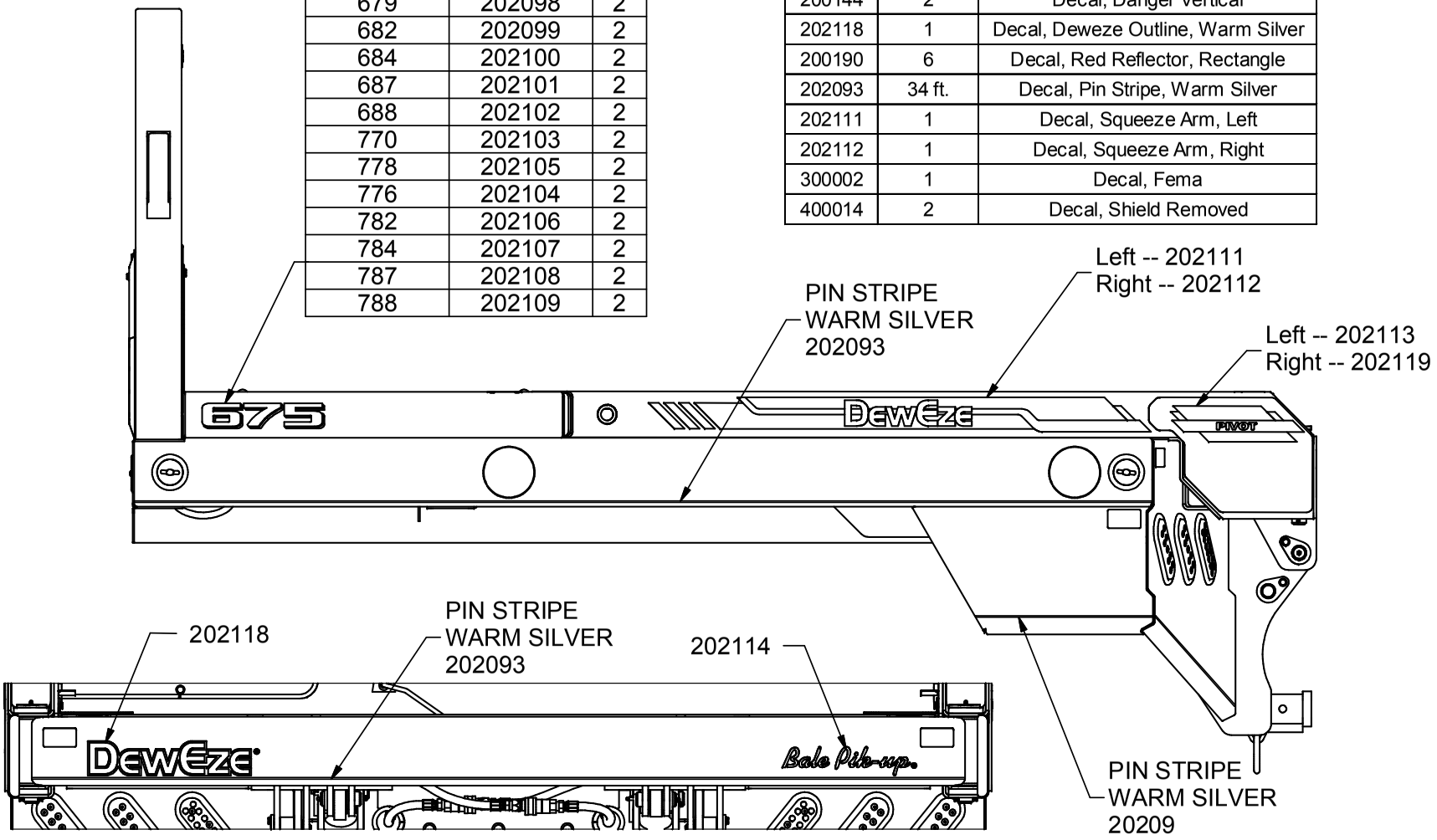


11/15/2016

600 & 700 Series Pivot Decals

Model # Decals		
Left & Right	Part #	Qty
670	202094	2
671	202129	2
675	202095	2
676	202096	2
677	202097	2
679	202098	2
682	202099	2
684	202100	2
687	202101	2
688	202102	2
770	202103	2
778	202105	2
776	202104	2
782	202106	2
784	202107	2
787	202108	2
788	202109	2

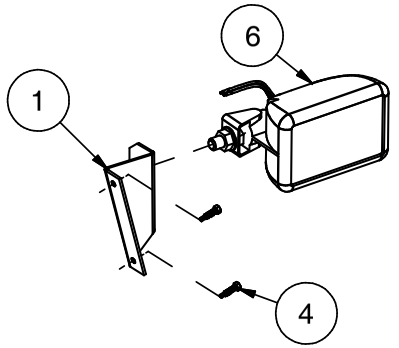
Decal Kit, 6-700 Series Part # 205133		
Part #	Qty	Description
200010	4	Decal, Danger Red On White
202114	1	Decal, Bale Pik-up Script, Warm Silver
200144	2	Decal, Danger Vertical
202118	1	Decal, Deweze Outline, Warm Silver
200190	6	Decal, Red Reflector, Rectangle
202093	34 ft.	Decal, Pin Stripe, Warm Silver
202111	1	Decal, Squeeze Arm, Left
202112	1	Decal, Squeeze Arm, Right
300002	1	Decal, Fema
400014	2	Decal, Shield Removed

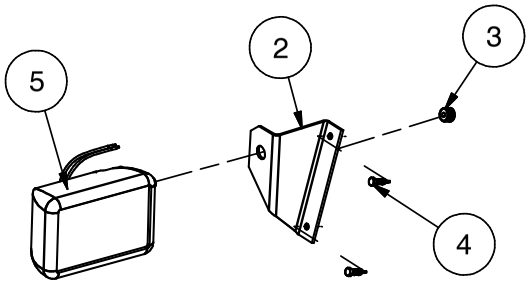


8/16/2017

Flatbed Accessories
Cargo Lights

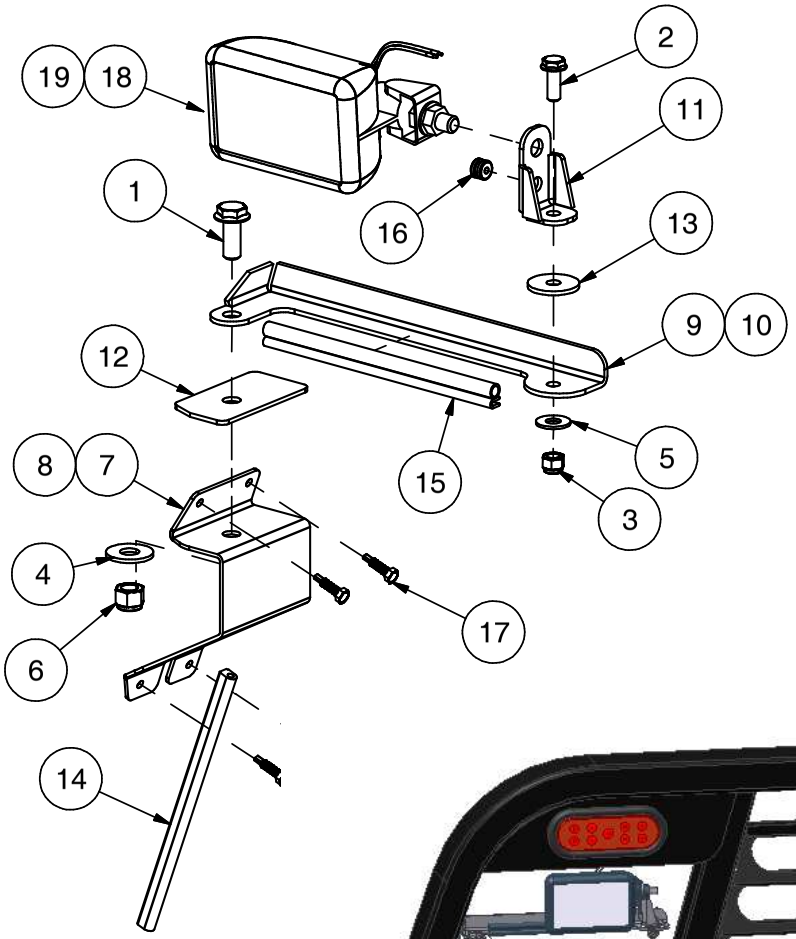
Cargo Light Assy, Part# 211391			
ITEM	QTY	PART #	DESCRIPTION
1	1	211389	LIGHT BRACKET, RIGHT
2	1	211390	LIGHT BRACKET, LEFT
3	1	230146	GROMMET, 3/16 ID X 9/16 OD
4	4	710587	SCREW, 3/16 X .75 TEK SELF-TAP
5	1	830031	WORK LIGHT, LEFT
6	1	830035	WORK LIGHT, RIGHT
NOT SHOWN			
20	130004	Wire, 14ga, Black	
1	130010	Terminal, Scotch Lock	
1	132027	Switch, Spst, Toggle .250 Tab	
1	132035	Boot, 1/2 Toogle Switch Seal	
3	530071	Terminal, Ring, 10-12 Ga, 5/16	
3	730008	Terminal, Butt Connector,14-16	
2	730010	Terminal, Ring, 14-16ga, 10-32	





8/29/2013

Flatbed Accessories
Swingout Lights

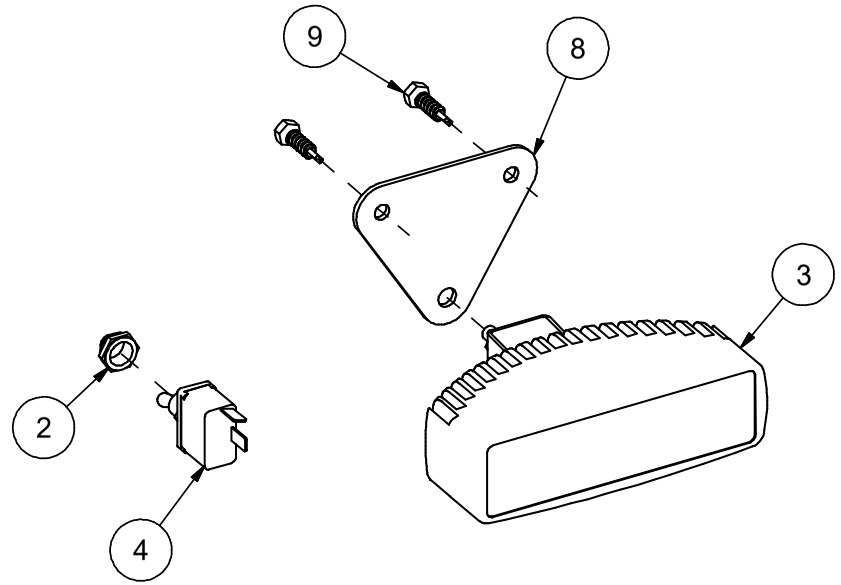


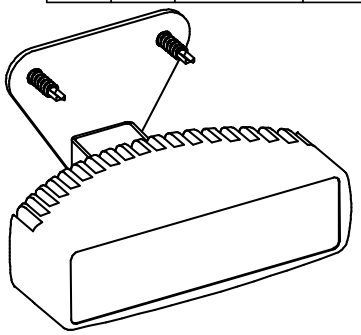
Swing Light Kit, Part# 205013			
ITEM	QTY	PART #	DESCRIPTION
1	2	110001	BOLT, 1/2-13 X 1.25, WIZ FLANGE
2	2	110440	BOLT, 3/8-16 X 1, WIZ FLANGE
3	2	110618	NUT, 3/8-16 LOCK NYLON INSERT
4	2	110658	WASHER, 1/2" FLAT STANDARD
5	2	110676	WASHER, 3/8" FLAT STANDARD
6	2	111034	NUT, 1/2-13 LOCK NYLON
7	1	211741	SWING LIGHT MOUNT, LEFT
8	1	211742	SWING LIGHT MOUNT, RIGHT
9	1	211743	SWING LIGHT ARM, LEFT
10	1	211744	SWING LIGHT ARM, RIGHT
11	2	211745	LIGHT MOUNT
12	2	211746	FRICTION MOUNTING PLATE
13	2	211747	FRICTION WASHER 1.5"
14	2	211748	SWING LIGHT, RUBBER SEAL
15	2	211749	SWINGLIGHT EDGE TRIM
16	2	230146	GROMMET, 3/16 ID X 9/16 OD
17	8	710586	SCREW, 1/4 X 1 TEK SELF-TAP
18	1	830031	WORK LIGHT, LEFT
19	1	830035	WORK LIGHT, RIGHT
			NOT SHOWN
	20'	130004	WIRE, 14GA BLACK
	2	130023	TERMINAL, RING, 14-16GA 3/8"
	1	132027	Switch, Spst, Toggle .250 Tab
	1	132035	Boot, 1/2 Toogle Switch Seal
	2	730008	TERMINAL, BUTT CONNECTOR, 14-16
	2	730010	TERMINAL, RING, 14-16GA. 10-32

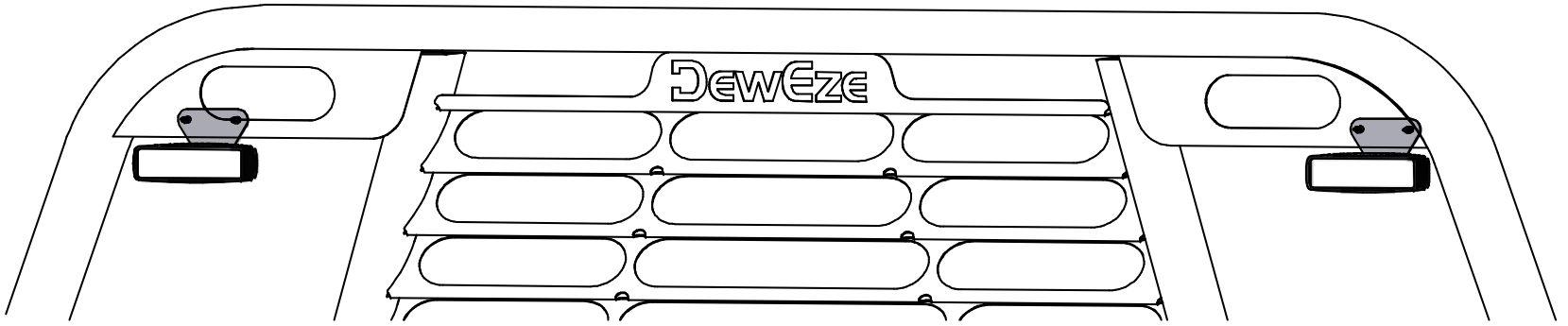
8/29/2013

Flatbed Accessories
Cargo Lights
LED

Cargo Light Kit, Part# 205113			
ITEM	QTY	PART #	DESCRIPTION
1	5 ft	130004	Wire, 14ga Black
2	1	132035	SWITCH BOOT
3	2	132133	Light, LED, 5" Rect. Flood
4	1	132135	Switch, Toggle, SPST, On-Off
5	3	132147	Terminal, Butt Connector, 16-14, Heat Shrink
6	2	132148	Terminal, Ring, 16-14, 1/4", Heat Shrink
7	1	132149	Terminal, Multi-Wire Butt Connector, Heat Shrink
8	2	260626	Bracket, Cargo Light
9	4	710586	SCREW, 1/4 X 1 TEK SELF-TAP
10	2	132155	Harness, Packard to Packard, 2 Terminal

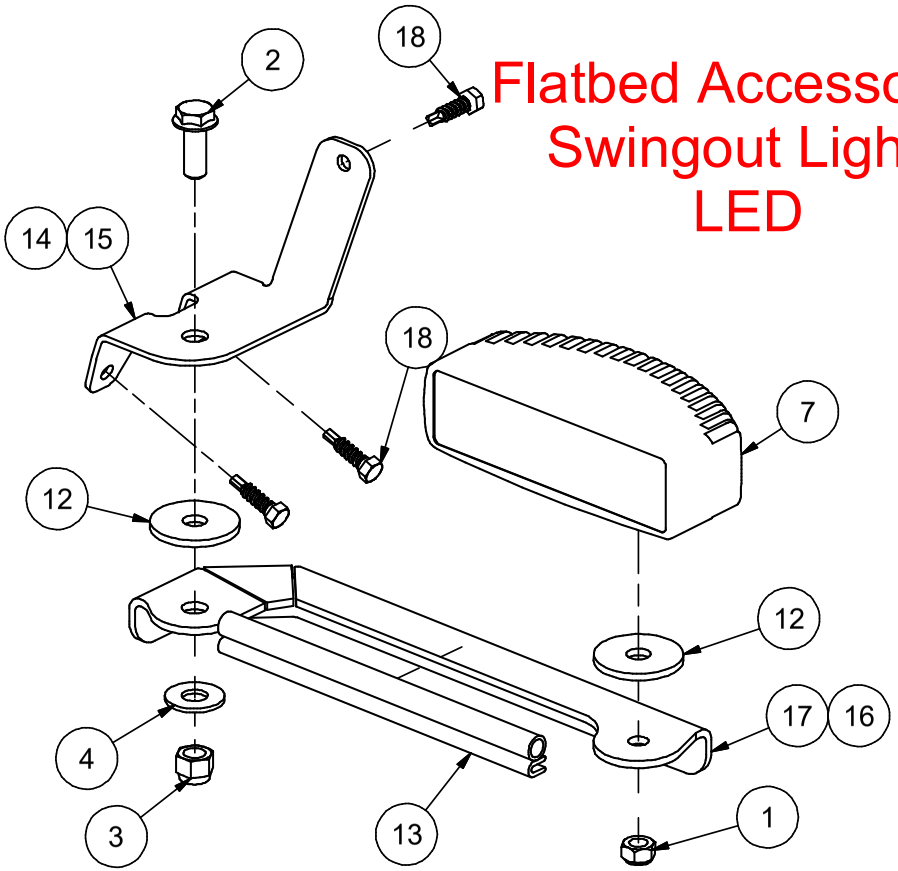




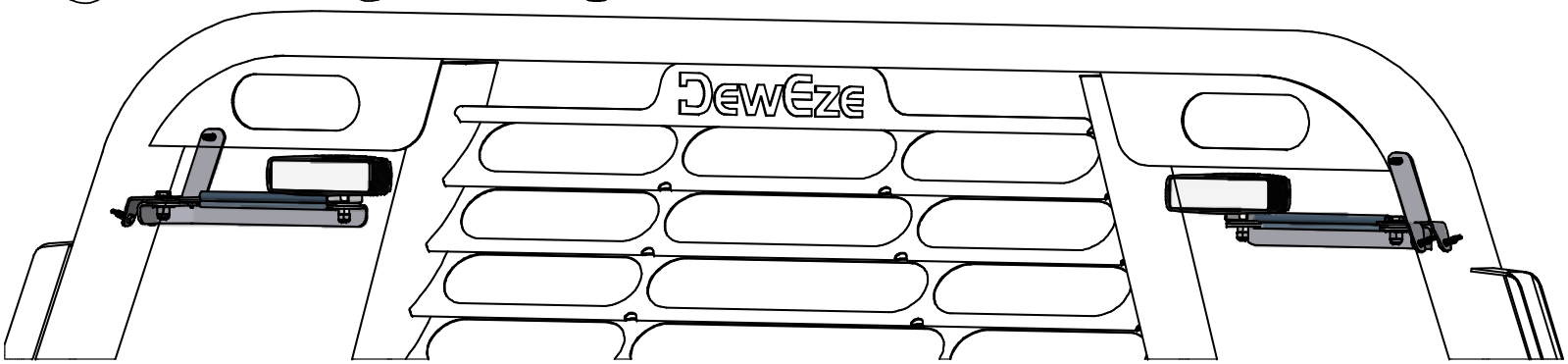


6/4/2018

Flatbed Accessories
Swingout Lights
LED



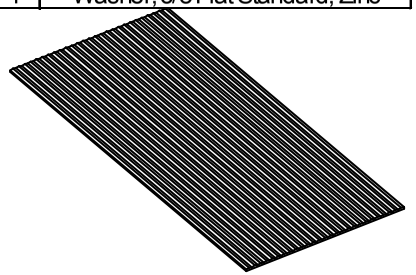
Swingout Light Kit, Part# 205114			
ITEM	QTY	PART #	DESCRIPTION
1	2	110230	NUT, M8 X 1.25, LOCK NYLON
2	2	110440	BOLT, 3/8-16 X 1, WIZ FLANGE
3	2	110618	NUT, 3/8-16 LOCK NYLON INSERT
4	2	110676	WASHER, 3/8" FLAT STANDARD
5	5 ft	130004	Wire, 14ga Black
6	1	132035	SWITCH BOOT
7	2	132133	Light, LED, 5" Rect. Flood
8	1	132135	Switch, Toggle, SPST, On-Off
9	3	132147	Terminal, Butt Connector, 16-14, Heat Shrink
10	2	132148	Terminal, Ring, 16-14, 1/4", Heat Shrink
11	1	132149	Terminal, Multi-Wire Butt Connector, Heat Shrink
12	4	211747	FRICTION WASHER 1.5"
13	2	211749	SWINGLIGHT EDGE TRIM
14	1	260622	Bracket, Swing Light, Base, Right
15	1	260623	Bracket, Swing Light, Base, Left
16	1	260624	Bracket, Swing Light, Arm, Right
17	1	260625	Bracket, Swing Light, Arm, Left
18	6	710586	SCREW, 1/4 X 1 TEK SELF-TAP
19	2	132155	Harness, Packard to Packard, 2 Terminal

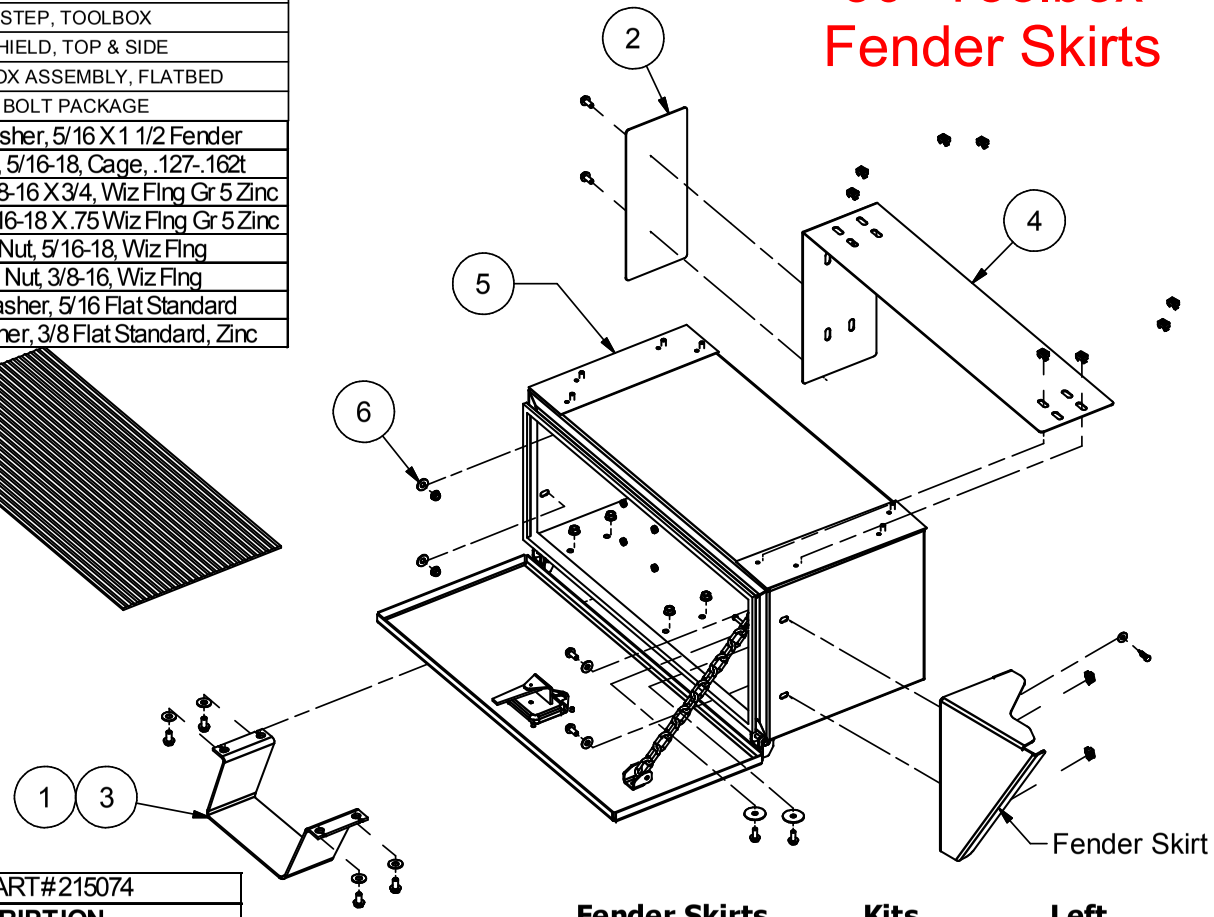


6/4/2018

Flatbed Accessories
30" Toolbox
Fender Skirts

Toolbox Complete W/Step, Part# 205011			
ITEM	QTY	PART #	DESCRIPTION
1	.7 ft	100449	Traction Pad
2	1	202001	DECAL, CHIP GUARD
3	1	211109	STEP, TOOLBOX
4	1	211684	SHIELD, TOP & SIDE
5	1	215074	TOOLBOX ASSEMBLY, FLATBED
6	1	205012	BOLT PACKAGE
		110049	8	Washer, 5/16 X 1 1/2 Fender
		110258	12	Nut, 5/16-18, Cage, .127-.162t
		110437	4	Bolt, 3/8-16 X 3/4, Wiz Flng Gr 5 Zinc
		110444	14	Bolt, 5/16-18 X .75 Wiz Flng Gr 5 Zinc
		110606	2	Nut, 5/16-18, Wiz Flng
		110645	4	Nut, 3/8-16, Wiz Flng
		110665	4	Washer, 5/16 Flat Standard
		110676	4	Washer, 3/8 Flat Standard, Zinc





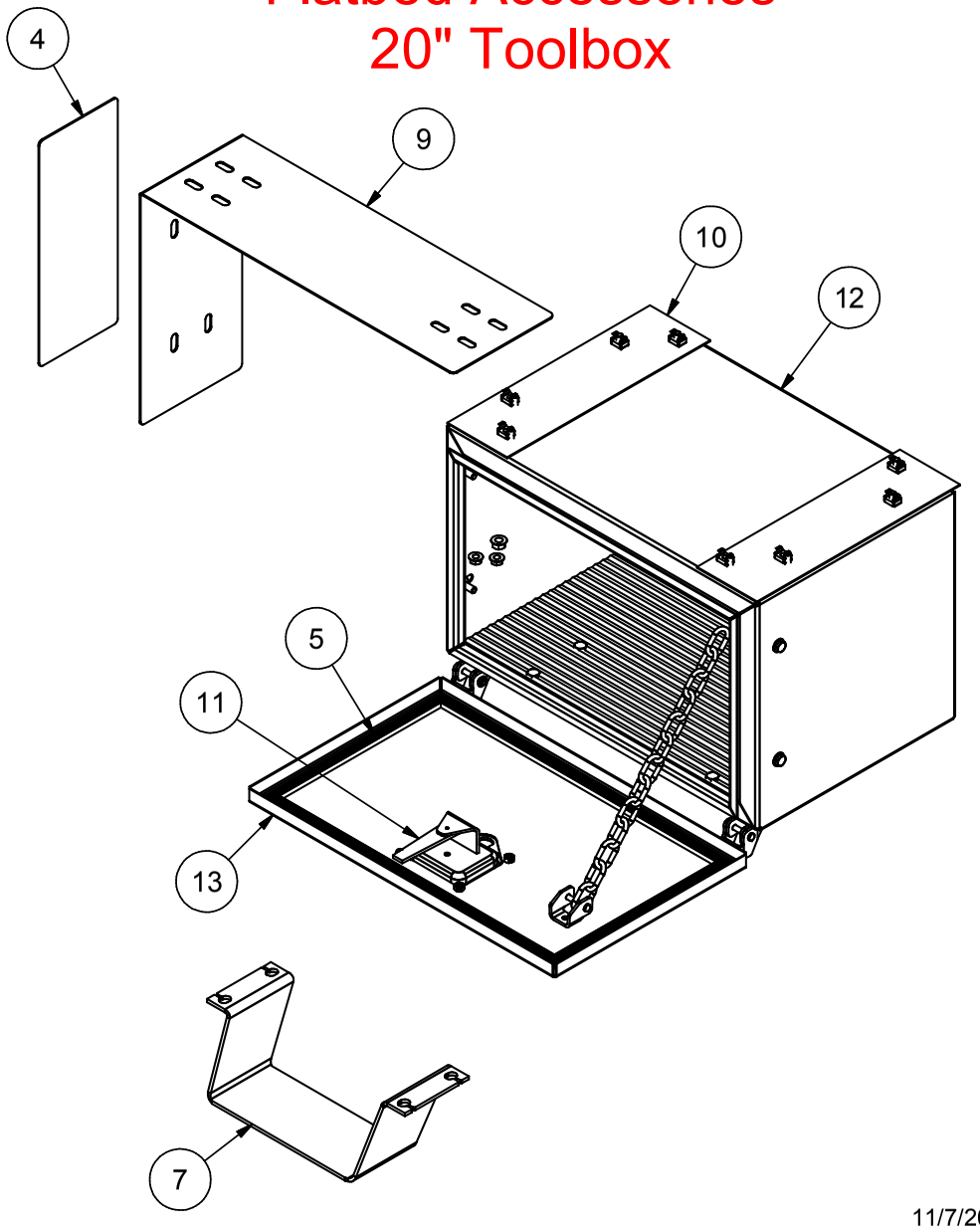
TOOLBOX COMPLETE, PART# 215074		
PART #	**QTY**	**DESCRIPTION**
110174	4	Nut, 1/4-20, Lock (2-way)
112011	3	Pushnut, Flat Round Type
112095	3	Clevis Pin, 1/4 X 1 5/8 Zinc
202010	1	Seal, Tool Box Lid
211119	1	Mat, Toolbox 30"
212003	2	Gasket, Tool Box Mount use DK111 Foam
212017	1	Latch, Toolbox w/Studs, Key & Gasket
215072	1	Weldment, Tool Box Door & Hinge
215073	1	Weldment, Tool Box & Hinge

Fender Skirts		Kits	Left	Right
400 Series	Short	205070	260269	260270
	Long	N/A	211293	211294
500 Series	Short	205071	260271	260272
	Long	N/A	211587	211588
600 Series	Short	205070	260269	260270
	Long	205072	260273	260274
700 Series	Short	205071	260271	260272
	Long	205073	260275	260276

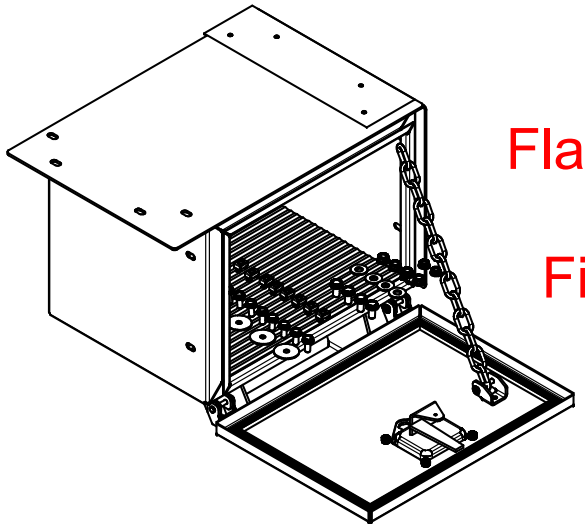
11/7/2017

Toolbox Complete W/Step, 20" Part# 205030			
ITEM	QTY	PART #	DESCRIPTION
1	4	110174	NUT, 1/4-20 LOCK 2-WAY
2	3	112011	PUSH NUT, WASHER CAP STYLE
3	3	112095	CLEVIS PIN, STD ZP 1/4 X 1 5/8
4	1	202001	DECAL, CHIP GUARD
5	1	202010	SEAL, TOOLBOX LID (TRIM-LOK X-2897)
6	1	205012	BOLT PACKAGE
	8	110049	WASHER, 5/16 X 1.50 FENDER
	12	110258	NUT, 5/16-18, CAGE TINNERMAN
	4	110437	BOLT, 3/8-16 X 0.75, WIZ FLANGE
	14	110444	BOLT, 5/16-18 X 0.75, WIZ FLANGE
	2	110606	NUT, 5/16-18 WIZ FLANGE
	4	110645	NUT, 3/8-16 WIZ FLANGE
	4	110665	WASHER, 5/16" FLAT STANDARD
	4	110676	WASHER, 3/8" FLAT STANDARD
7	1	211109	STEP, TOOLBOX
	1	100449	Traction Pad
8	1	211248	TOOLBOX MAT 20"
9	1	211593	TOOLBOX CHIP GUARD 20"
10	2	212003	GASKET, TOOLBOX MOUNT
11	1	212017	Latch, Toolbox w/Studs, Key & Gasket
	1	212015	Gasket, Toolbox Latch
12	1	215131	TOOLBOX & HINGE WELDMENT 20"
13	1	215133	TOOLBOX DOOR & HINGE WELDMENT 20"

Flatbed Accessories
20" Toolbox



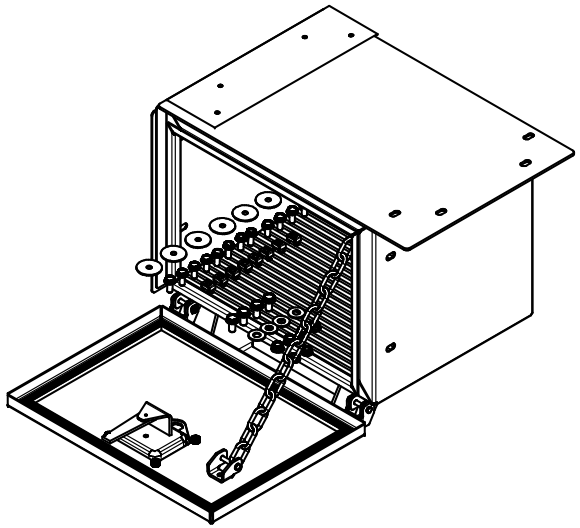
11/7/2017



Flatbed Accessories
17" Toolbox
Fits 20" Mounting

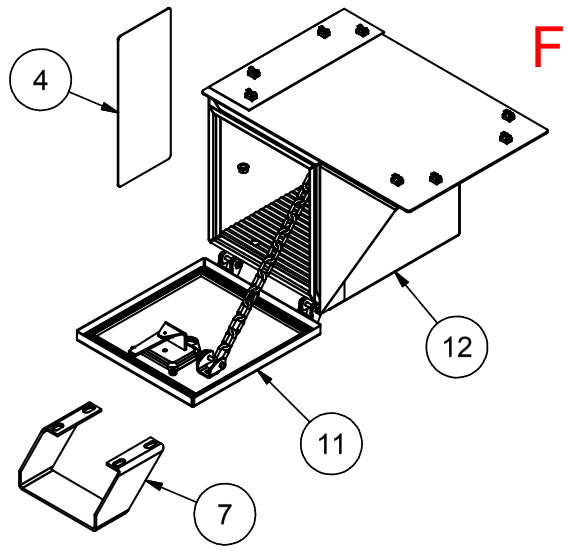
Toolbox Complete W/Step, 17" Right (205138)			
ITEM	QTY	PART #	DESCRIPTION
1	4	110174	NUT, 1/4-20 LOCK 2-WAY
2	3	112011	PUSH NUT, WASHER CAP STYLE
3	3	112095	CLEVIS PIN, STD ZP 1/4 X 1 5/8
4	1	202001	DECAL, CHIP GUARD
5	1	202010	SEAL, TOOLBOX LID (TRIM-LOK X-2897)
6	1	205012	BOLT PACKAGE
	8	110049	WASHER, 5/16 X 1.50 FENDER
	12	110258	NUT, 5/16-18, CAGE TINNERMAN
	4	110437	BOLT, 3/8-16 X 0.75, WIZ FLANGE
	14	110444	BOLT, 5/16-18 X 0.75, WIZ FLANGE
	2	110606	NUT, 5/16-18 WIZ FLANGE
	4	110645	NUT, 3/8-16 WIZ FLANGE
	4	110665	WASHER, 5/16" FLAT STANDARD
	4	110676	WASHER, 3/8" FLAT STANDARD
7	1	211109	STEP, TOOLBOX
	.7 ft	100449	Traction Pad
8	1	212003	GASKET, TOOLBOX MOUNT
9	1	212017	Latch, Toolbox w/Studs, Key & Gasket
	1	212015	Gasket, Toolbox Latch
10	1	215213	WELDMENT, TOOLBOX DOOR & HINGE, 17"
11	1	215394	Weldment, 17" Right, Toolbox & Hinge
12	1	260719	Toolbox Mat, 17"

Toolbox Complete W/Step, 17" Left (205139)			
ITEM	QTY	PART #	DESCRIPTION
1	4	110174	NUT, 1/4-20 LOCK 2-WAY
2	3	112011	PUSH NUT, WASHER CAP STYLE
3	3	112095	CLEVIS PIN, STD ZP 1/4 X 1 5/8
4	1	202001	DECAL, CHIP GUARD
5	1	202010	SEAL, TOOLBOX LID (TRIM-LOK X-2897)
6	1	205012	BOLT PACKAGE
	8	110049	WASHER, 5/16 X 1.50 FENDER
	12	110258	NUT, 5/16-18, CAGE TINNERMAN
	4	110437	BOLT, 3/8-16 X 0.75, WIZ FLANGE
	14	110444	BOLT, 5/16-18 X 0.75, WIZ FLANGE
	2	110606	NUT, 5/16-18 WIZ FLANGE
	4	110645	NUT, 3/8-16 WIZ FLANGE
	4	110665	WASHER, 5/16" FLAT STANDARD
	4	110676	WASHER, 3/8" FLAT STANDARD
7	1	211109	STEP, TOOLBOX
	.7 ft	100449	Traction Pad
8	1	212003	GASKET, TOOLBOX MOUNT
9	1	212017	Latch, Toolbox w/Studs, Key & Gasket
	1	212015	Gasket, Toolbox Latch
10	1	215213	WELDMENT, TOOLBOX DOOR & HINGE, 17"
11	1	215393	Weldment, 17" Left, Toolbox & Hinge
12	1	260719	Toolbox Mat, 17"



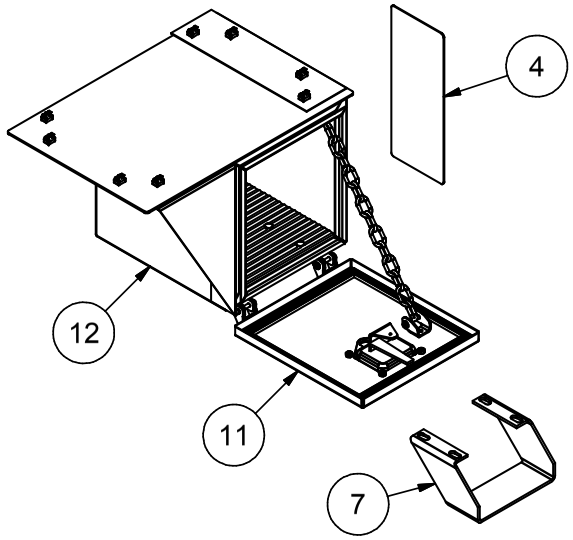
11/7/2017

Flatbed Accessories
12" Toolbox
Fits 20" Mounting



Toolbox Complete W/Step, 12" Left (205033)			
ITEM	QTY	PART #	DESCRIPTION
1	4	110174	NUT, 1/4-20 LOCK 2-WAY
2	3	112011	PUSH NUT, WASHER CAP STYLE
3	3	112095	CLEVIS PIN, STD ZP 1/4 X 1 5/8
4	1	202001	DECAL, CHIP GUARD
5	1	202010	SEAL, TOOLBOX LID (TRIM-LOK X-2897)
6	1	205012	BOLT PACKAGE
	8	110049	WASHER, 5/16 X 1.50 FENDER
	12	110258	NUT, 5/16-18, CAGE TINNERMAN
	4	110437	BOLT, 3/8-16 X 0.75, WIZ FLANGE
	14	110444	BOLT, 5/16-18 X 0.75, WIZ FLANGE
	2	110606	NUT, 5/16-18 WIZ FLANGE
	4	110645	NUT, 3/8-16 WIZ FLANGE
	4	110665	WASHER, 5/16" FLAT STANDARD
	4	110676	WASHER, 3/8" FLAT STANDARD
7	1	210697	STEP TOOL BOX
	.5 ft	100449	Traction Pad
8	1	211871	TOOLBOX MAT 12"
9	1	212003	GASKET, TOOLBOX MOUNT
10	1	212017	Latch, Toolbox w/Studs, Key & Gasket
	1	212015	Gasket, Toolbox Latch
11	1	215136	TOOLBOX DOOR & HINGE WELDMENT 12"
12	1	215151	WELDMENT, TOOLBOX 12" W/SKIRT, LEFT

Toolbox Complete W/Step, 12" Right (205032)			
ITEM	QTY	PART #	DESCRIPTION
1	4	110174	NUT, 1/4-20 LOCK 2-WAY
2	3	112011	PUSH NUT, WASHER CAP STYLE
3	3	112095	CLEVIS PIN, STD ZP 1/4 X 1 5/8
4	1	202001	DECAL, CHIP GUARD
5	1	202010	SEAL, TOOLBOX LID (TRIM-LOK X-2897)
6	1	205012	BOLT PACKAGE
	8	110049	WASHER, 5/16 X 1.50 FENDER
	12	110258	NUT, 5/16-18, CAGE TINNERMAN
	4	110437	BOLT, 3/8-16 X 0.75, WIZ FLANGE
	14	110444	BOLT, 5/16-18 X 0.75, WIZ FLANGE
	2	110606	NUT, 5/16-18 WIZ FLANGE
	4	110645	NUT, 3/8-16 WIZ FLANGE
	4	110665	WASHER, 5/16" FLAT STANDARD
	4	110676	WASHER, 3/8" FLAT STANDARD
7	1	210697	STEP TOOL BOX
	.5 ft	100449	Traction Pad
8	1	211871	TOOLBOX MAT 12"
9	1	212003	GASKET, TOOLBOX MOUNT
10	1	212017	Latch, Toolbox w/Studs, Key & Gasket
	1	212015	Gasket, Toolbox Latch
11	1	215136	TOOLBOX DOOR & HINGE WELDMENT 12"
12	1	215152	WELDMENT, TOOLBOX 12" W/SKIRT, RIGHT



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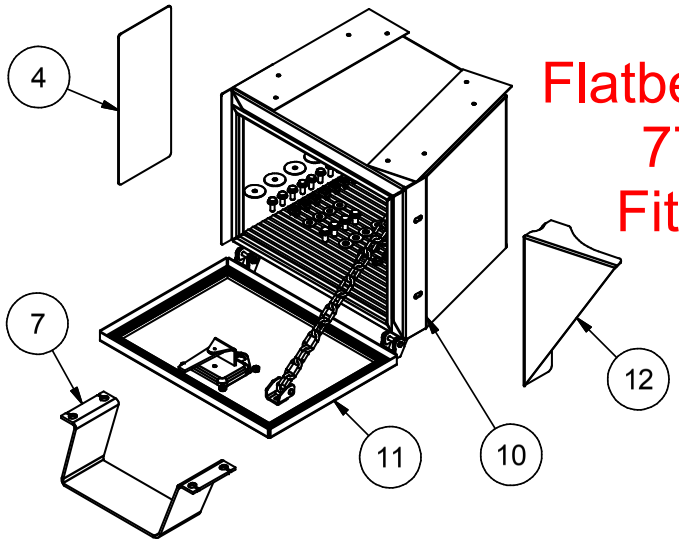
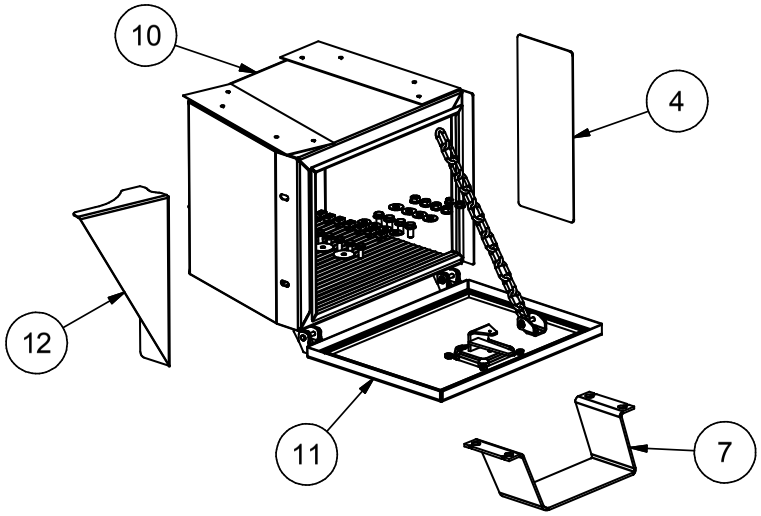


Flatbed Accessories
770 Toolbox
Fits "770" only

Toolbox Complete W/Step, 770 Right (205044)			
ITEM	QTY	PART #	DESCRIPTION
1	4	110174	NUT, 1/4-20 LOCK 2-WAY
2	3	112011	PUSH NUT, WASHER CAP STYLE
3	3	112095	CLEVIS PIN, STD ZP 1/4 X 1 5/8
4	1	202001	DECAL, CHIP GUARD
5	1	202010	SEAL, TOOLBOX LID (TRIM-LOK X-2897)
6	1	205012	BOLT PACKAGE
	8	110049	WASHER, 5/16 X 1.50 FENDER
	12	110258	NUT, 5/16-18, CAGE TINNERMAN
	4	110437	BOLT, 3/8-16 X 0.75, WIZ FLANGE
	14	110444	BOLT, 5/16-18 X 0.75, WIZ FLANGE
	2	110606	NUT, 5/16-18 WIZ FLANGE
	4	110645	NUT, 3/8-16 WIZ FLANGE
	4	110665	WASHER, 5/16" FLAT STANDARD
	4	110676	WASHER, 3/8" FLAT STANDARD
7	1	211109	STEP, TOOLBOX
	.7 ft	100449	Traction Pad
8	2	212003	GASKET, TOOLBOX MOUNT
9	1	212017	Latch, Toolbox w/Studs, Key & Gasket
	1	212015	Gasket, Toolbox Latch
10	1	215211	WELDMENT, TOOLBOX & HINGE, 770 LEFT
11	1	215213	WELDMENT, TOOLBOX DOOR & HINGE, 17"
12	1	260203	TOOLBOX SKIRT, 770, LEFT
13	1	260205	TOOLBOX MAT 770, LEFT

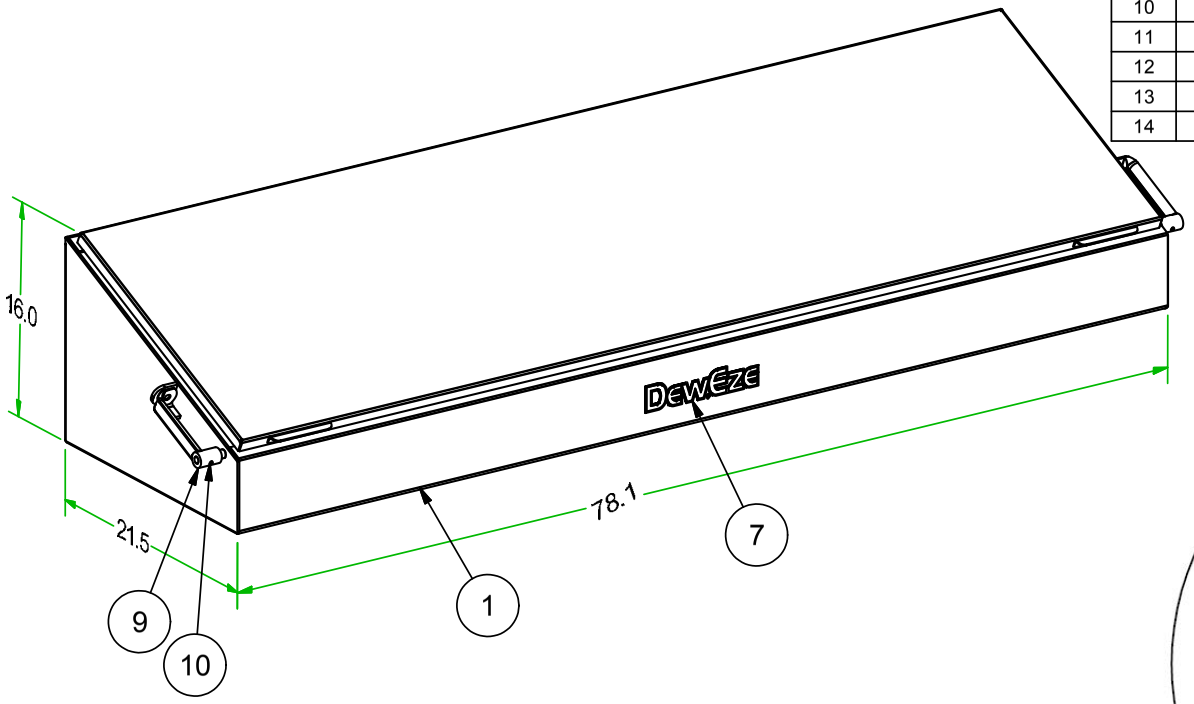
Toolbox Complete W/Step, 770 Left (205045)			
ITEM	QTY	PART #	DESCRIPTION
1	4	110174	NUT, 1/4-20 LOCK 2-WAY
2	3	112011	PUSH NUT, WASHER CAP STYLE
3	3	112095	CLEVIS PIN, STD ZP 1/4 X 1 5/8
4	1	202001	DECAL, CHIP GUARD
5	1	202010	SEAL, TOOLBOX LID (TRIM-LOK X-2897)
6	1	205012	BOLT PACKAGE
	8	110049	WASHER, 5/16 X 1.50 FENDER
	12	110258	NUT, 5/16-18, CAGE TINNERMAN
	4	110437	BOLT, 3/8-16 X 0.75, WIZ FLANGE
	14	110444	BOLT, 5/16-18 X 0.75, WIZ FLANGE
	2	110606	NUT, 5/16-18 WIZ FLANGE
	4	110645	NUT, 3/8-16 WIZ FLANGE
	4	110665	WASHER, 5/16" FLAT STANDARD
	4	110676	WASHER, 3/8" FLAT STANDARD
7	1	211109	STEP, TOOLBOX
	.7 ft	100449	Traction Pad
8	2	212003	GASKET, TOOLBOX MOUNT
9	1	212017	Latch, Toolbox w/Studs, Key & Gasket
	1	212015	Gasket, Toolbox Latch
10	1	215212	WELDMENT, TOOLBOX & HINGE, 770 RIGHT
11	1	215213	WELDMENT, TOOLBOX DOOR & HINGE, 17"
12	1	260204	TOOLBOX SKIRT, 770, RIGHT
13	1	260206	TOOLBOX MAT 770, RIGHT

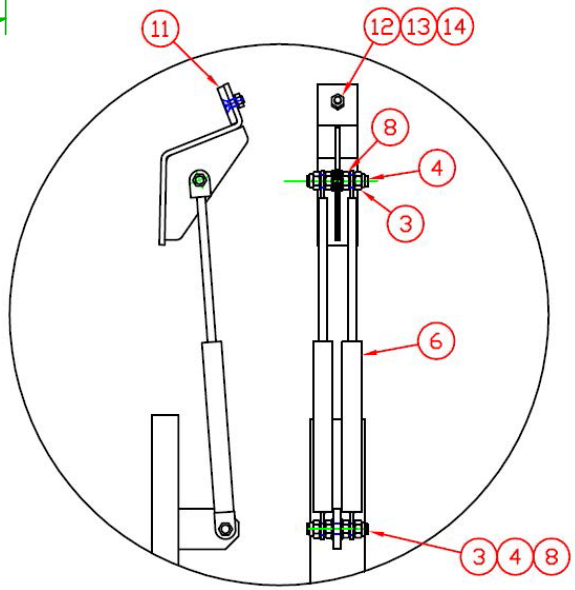


11/7/2017

Flatbed Accessories
Across the Bed Toolbox

Across the Bed Toolbox, Part# 210915			
ITEM	QTY	PART #	DESCRIPTION
1	1	210914	TOOLBOX WELD ASSEMBLY
2	2	211132	BUSHING, .625 X .5 X .062 FNG
3	4	110618	NUT, 3/8-16 LOCK NYLON INSERT
4	1	210908	ALL THREAD
5	2	211134	SPRING/LATCH
6	2	500078	Shock, Gas Filled
7	1	400010	DECAL, DEWEZE BLACK OUTLINE
8	4	110645	NUT, 3/8-16 WIZ FLANGE
9	1	211143	HANDLE WELD ASSY
10	2	110239	SetScrew, 5/16-18 X 0.3125
11	1	211138	WEAR PAD, PLASTIC TOOLBOX
12	1	110238	1/4-20 X .75 FLAT C'SUNK SCREW
13	1	110667	WASHER, 1/4" LOCK
14	1	110609	NUT, 1/4-20

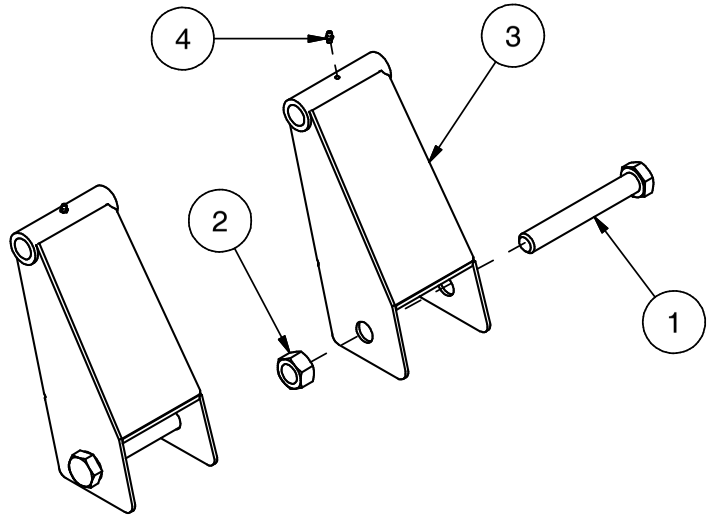




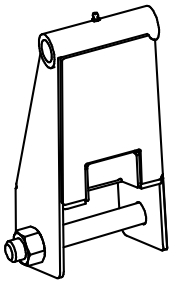
3/21/2011

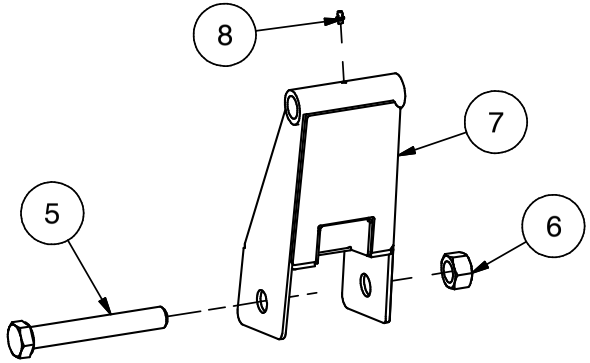
Flatbed Accessories
Spinners & Risers
Pivot Squeeze

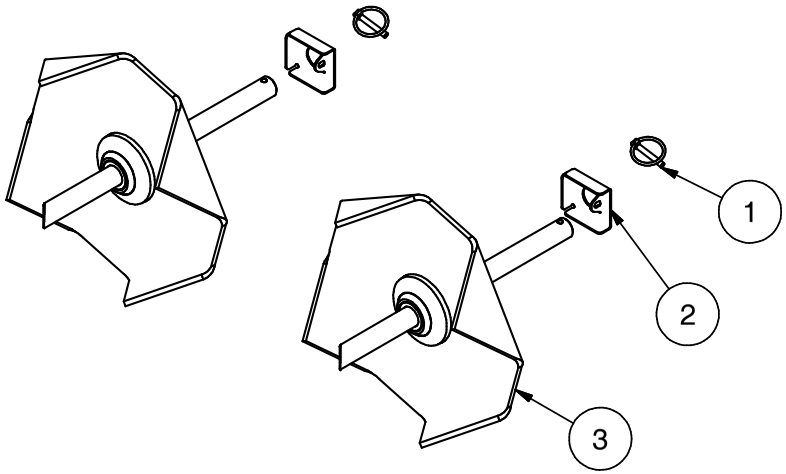
Riser, Offset Pair, Part# 211145			
ITEM	QTY	PART #	DESCRIPTION
1	2	110364	BOLT, 1-8 X 7.0
2	2	110601	NUT, 1-8
3	2	211125	RISER WELD ASSY
4	2	510174	GREASE ZERK, 1/4-28 ST



Riser, Offset Pair, Pivot XRM Part# 205096			
ITEM	QTY	PART #	DESCRIPTION
5	2	110364	BOLT, 1-8 X 7.0
6	2	110601	NUT, 1-8
7	2	215308	Weldment, Riser, Pivot XRM
8	2	510174	GREASE ZERK, 1/4-28 ST





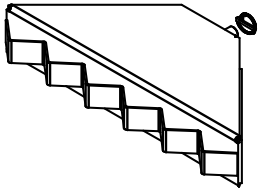


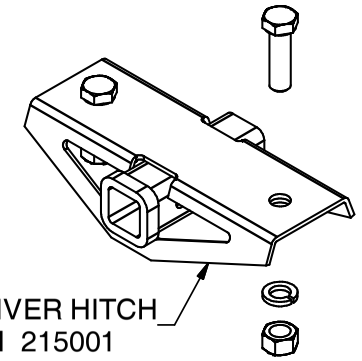
Spinner Assy, Swivel Pair Part# 205077			
ITEM	QTY	PART #	DESCRIPTION
1	2	210006	Pin, Lynch 1/4 x 1 1/2
2	2	211513	LYNCH PIN GUARD
3	2	215247	Weldment, Spinner, Swivel

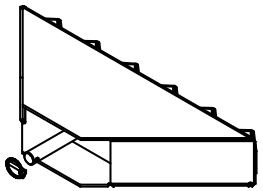
12/4/2014

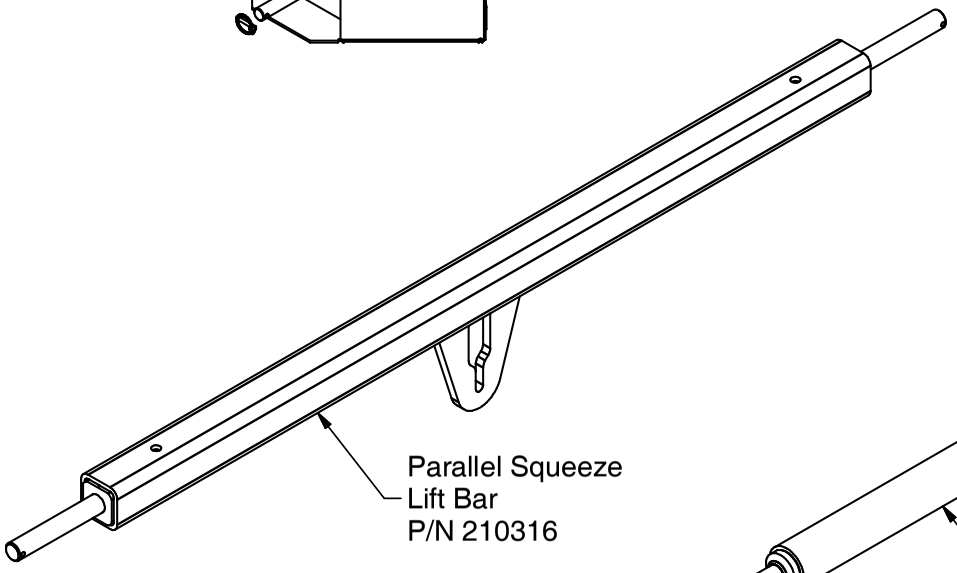
OTHER ACCESSORIES

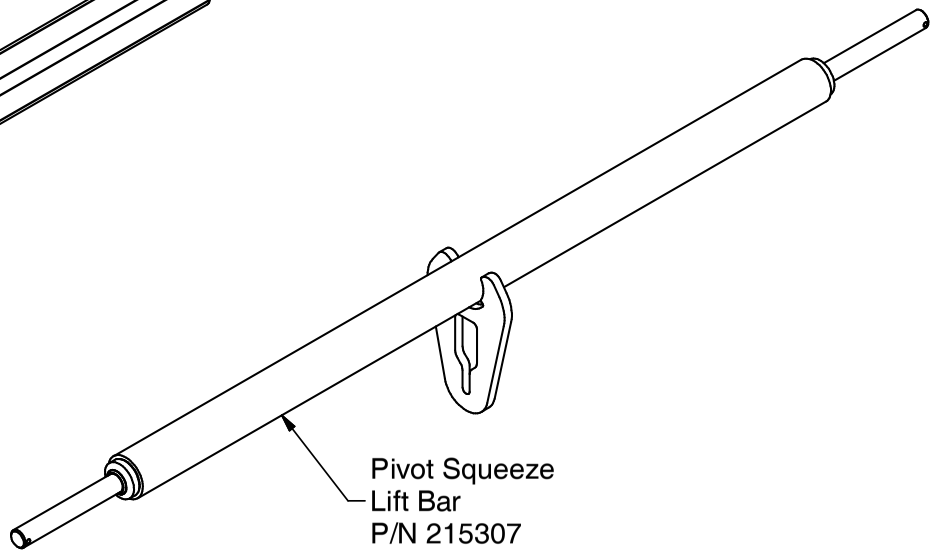
Adapter Assy, 4' Bale, Part# 210933			
ITEM	QTY	PART #	DESCRIPTION
1	2	210929	4' BALE ADAPTER
2	2	210006	Pin, Lynch 1/4 x 1 1/2





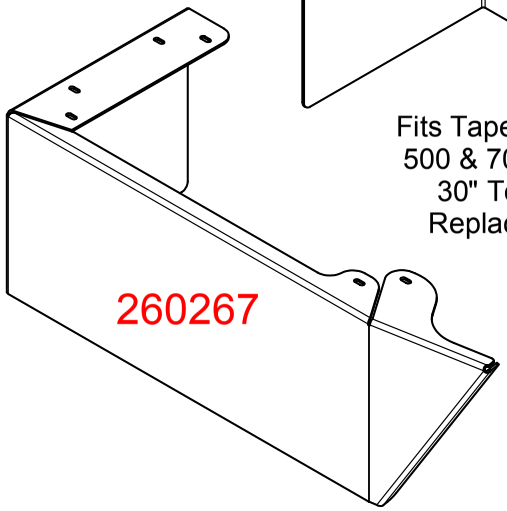




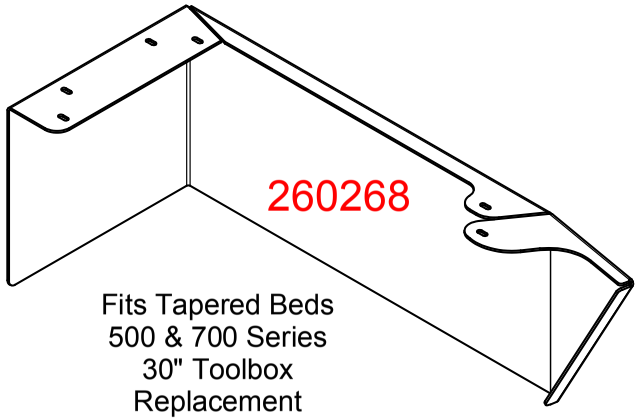


Front Skirt
Toolbox Replacement

215116
Bolt Kit
1ea Required
Per Fenderskirt

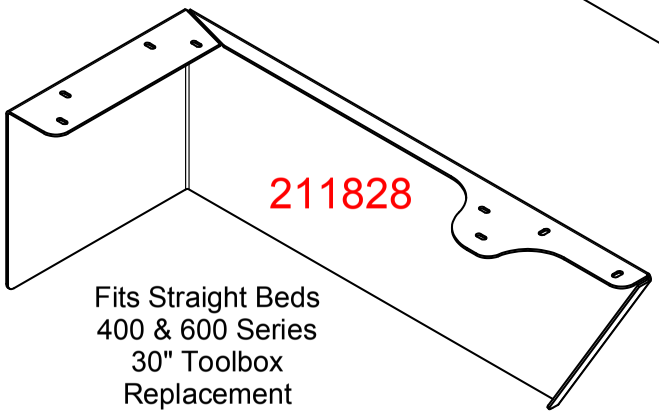


260267



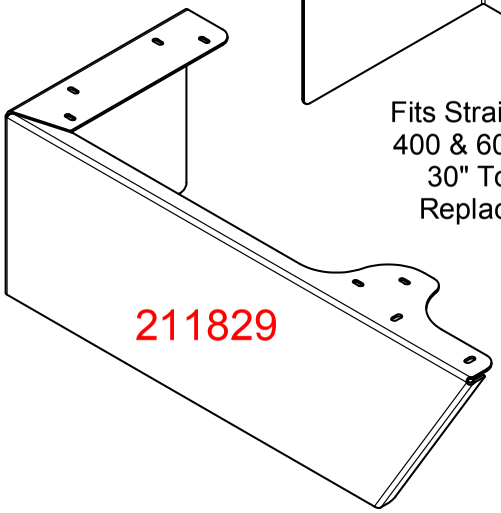
260268

Fits Tapered Beds
500 & 700 Series
30" Toolbox
Replacement

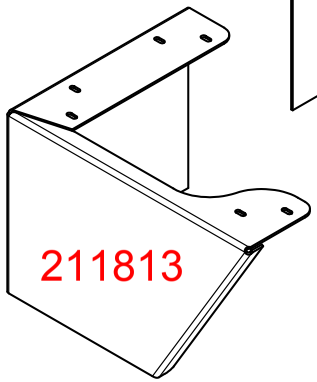


211828

Fits Straight Beds
400 & 600 Series
30" Toolbox
Replacement



211829



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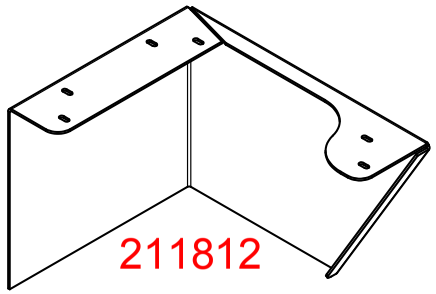


211812

Fits Short Beds
20" Toolbox
Replacement

7/24/2012

Appendix I

GatorHyde Repair Instructions

Required items:

1 – 25 x 25 ml caulking gun (202030)
1 – 25 x 25 ml cartridge set of GatorHyde Repair Material (202031)
1 – ¼" x 6" mixing wand (202032)
1 – pair of rubber gloves
1 – wooden stick
1 – Instruction sheet and MSDS sheet
1 – MEK – methyl ethyl ketone solvent (available at most hardware stores)
1 – small paint brush
2 – plastic cups

⚠ SAFETY WARNING!
Read the Master Safety Data Sheets (MSDS) on all chemicals before handling any chemical.
See: http://www.msds.com

Note:

This repair is designed to easily fix small, damaged areas fast and with limited amount of effort. However this product is fast reacting so make sure to thoroughly read this instruction sheet before proceeding with repairs.

Application Instruction:

Step 1. Before you start, put on rubber gloves and safety glasses.

Step 2. Place a piece of cardboard or newspaper next to the repair area prior to opening and mixing the material.

Step 3. Cut back damaged area with a razor knife to make a square.

Step 4. Sand area and feather edges with 40 grit sandpaper. Blow out sanded area to get rid of dust.

Step 5. Clean area well with MEK solvent and allow to dry for 30 minutes.

Step 6. Attach static mixing wand to 25 x 25 ml cartridge set, twist and lock in place. Insert cartridge into caulking gun.

Step 7. Hold the caulking gun in an upright position in one hand, then set the two plastic cups on a flat surface side by side. Next point the static mixing wand into a cup and squeeze the trigger of the gun two times so a small amount of material is discharged into the cup. (Note! This material is to be discarded.) Immediately move the static mixing wand over and point it into the next cup and continue to discharge the remaining amount of material into this cup.

Step 8. Allow the material to set in cup and gently stir with wooden stick for a period of 1 to 1 ½ minutes or until the GatorHyde becomes thicker and will stick to either a finger or wooden stick.

Step 9. Once material has begun to gel, apply enough product to finger or a stick and immediately dab onto damaged area. Use the paint brush to dab the area in a vertical manner to make a textured surface.

Cure time. Allow repaired area to cure for a period of 1 hour prior to heavy impact loading.

Clean-up. In order to clean up the area take a paper sack or plastic trash bag and place all the empty jars and remaining contents of the repair kit and dispose into a standard trash can or simply put everything back in the box and throw away.

GatorHyde Protective Coatings, Inc., 2210 South Highway 69, Wagoner, OK 74467 * (918) 485-2835 * www.gatorhyde.com

Appendix II

Remote Control

SYNCHRONIZING TRANSMITTER AND RECEIVER

To teach the transmitter ID code to the receiver, use the following procedure:

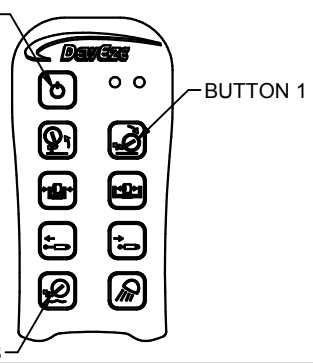
1. Make sure the receiver and transmitter are OFF.

2. Press and hold transmitter's button 1 and 8 (as shown) then press Power button until both LEDs start blinking, then release buttons.

3. Apply power to the receiver.

4. Wait for ~5 seconds or until the green LED on the transmitter starts blinking rapidly.

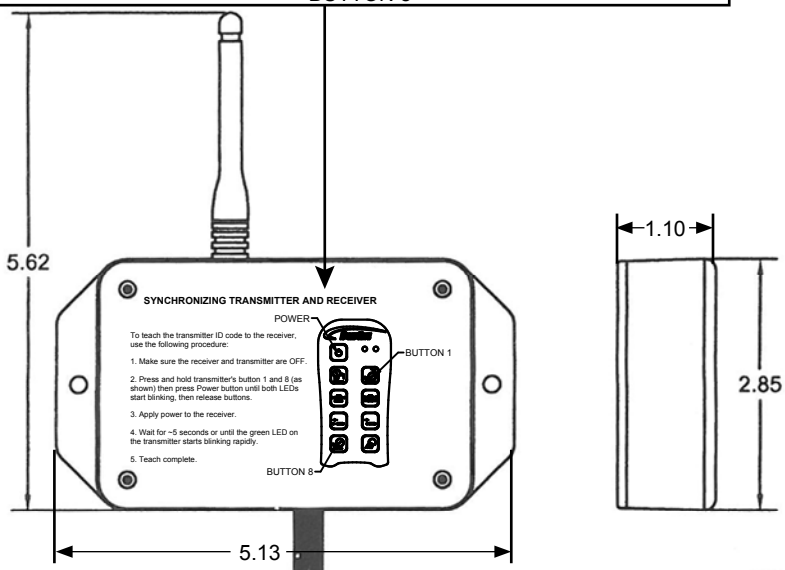
5. Teach complete.

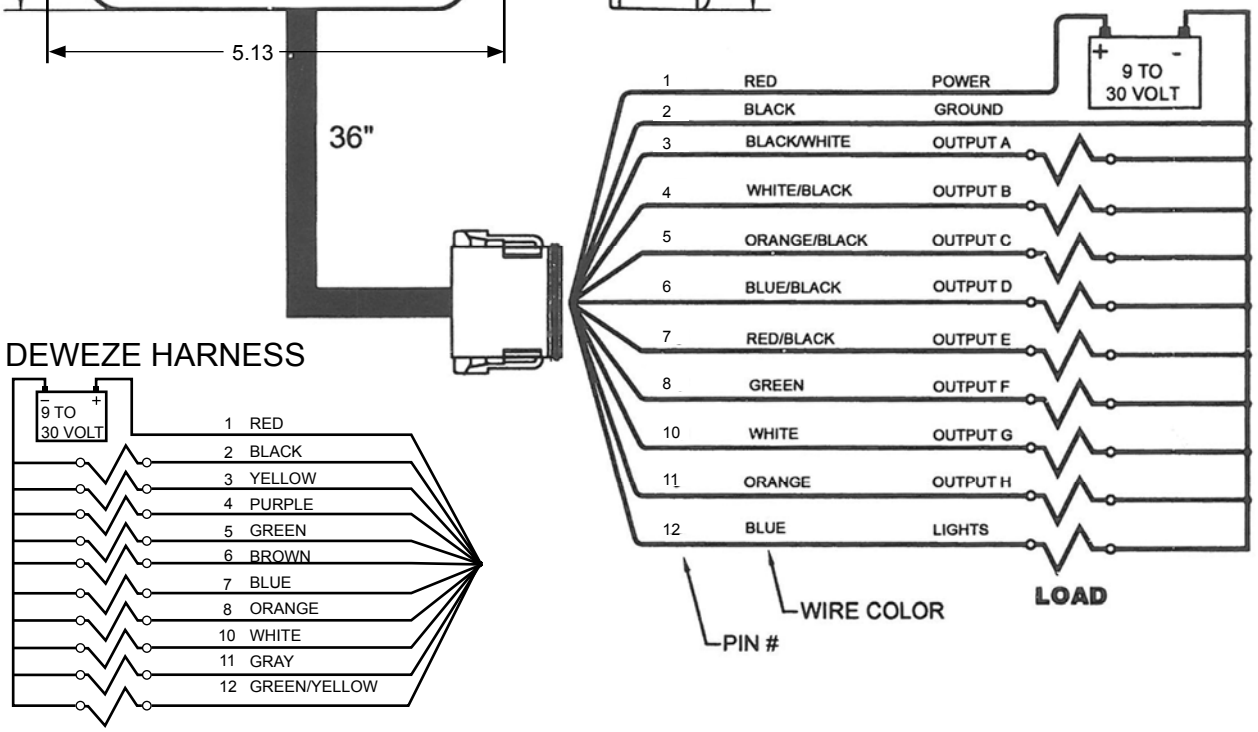


TRANSMITTER ERROR CODE CHART

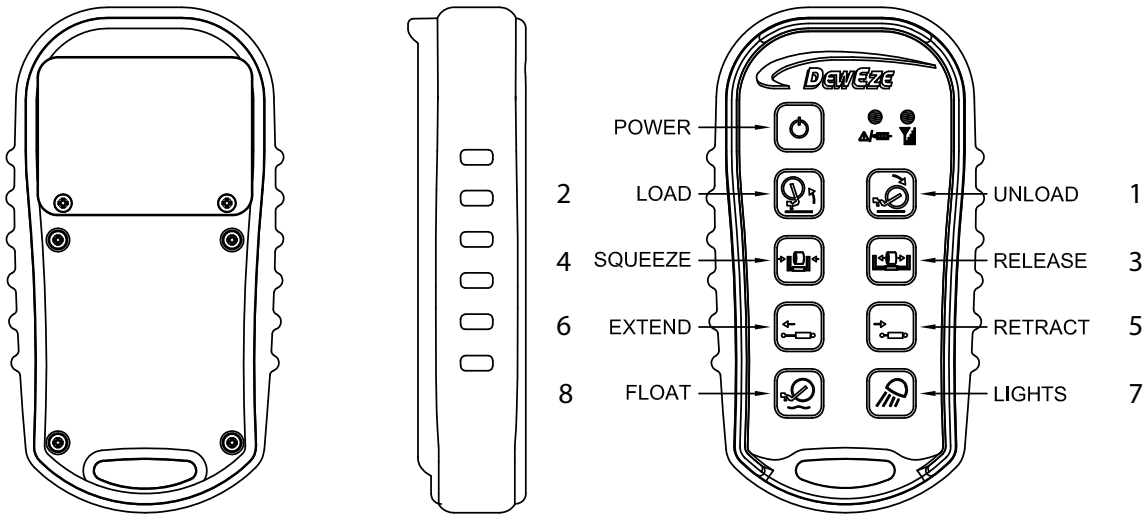
ERROR CODE	PROBABLE CAUSE
1	LOW BATTERY
2	FAULTY CIRCUIT TO OUTPUT A
3	FAULTY CIRCUIT TO OUTPUT B
4	FAULTY CIRCUIT TO OUTPUT C
5	FAULTY CIRCUIT TO OUTPUT D
6	FAULTY CIRCUIT TO OUTPUT E
7	FAULTY CIRCUIT TO OUTPUT F
8	FAULTY CIRCUIT TO OUTPUT G
9	FAULTY CIRCUIT TO OUTPUT H
10	FAULTY CIRCUIT TO LIGHT OUTPUT

ERROR CODE NUMBER IS THE NUMBER OF RED LIGHT BLINKS BETWEEN EVERY PAUSE.





DEWEZE HARNESS



TRANSMITTER (P/N: 3A1518C) Uses 2 AA Alkaline batteries.

SYSTEM OPERATION:

Press and hold the power button on the transmitter until both LEDs turn on, then release. The green LED will flash rapidly when communication has been established. When the receiver is off, the red LED will flash slowly indicating this. With the receiver on, press the corresponding buttons on the transmitter keypad to turn on and off each of the outputs.

CLONING:

1. On transmitter A (the teacher), press the POWER button, UNLOAD, and FLOAT simultaneously. At this point, both LEDs will flash on the first transmitter.
2. On transmitter B (the learner), press the POWER button to turn it on, then press LOAD, RELEASE, SQUEEZE, and FLOAT simultaneously, Both green and red LEDs will begin flashing.
3. Release buttons and wait for 1 second or until the green and red LEDs stop flashing on both units. Both transmitters will have the same ID at this point

SLEEP TIME

The transmitter is factory set to turn off (sleep) after 15 minutes. To change the time the transmitter waits before going to sleep, use the following procedure:

1. On the transmitter, press and hold POWER and buttons 3, 4, and 8
2. Release the buttons. At this point, both lights will blink once per second
3. On the transmitter, press one of the following buttons to adjust the sleep time:
    a. 1 = 15 min
    b. 2 = 30 min
    c. 3 = 1 hr
    d. 4 = 2 hr
    e. 8 = sleep disabled
4. Sleep time programming complete

INDICATOR LIGHTS:

The transmitter has two LED indicators, the red **BATTERY/DIAGNOSTIC** indicator and the green **TRANSMIT** indicator.

The green **TRANSMIT** indicator flashes rapidly whenever there is communication between the transmitter and the receiver.

The red **BATTERY/DIAGNOSTIC** indicator starts blinking once every second when the battery voltage is low and requires replacement. It also blinks when there is a problem with the system in the form of an error code. Refer to the **ERROR CODE CHART** tables for more information.

Note: To check for low battery, turn the receiver off and leave the transmitter on. If the transmitter red LED continues to blink, the battery is low and requires replacement. If the red LED blinks only when the receiver is on, count the number of blinks and refer to ERROR CODE CHART tables for additional information.

TEACH ID CODE:

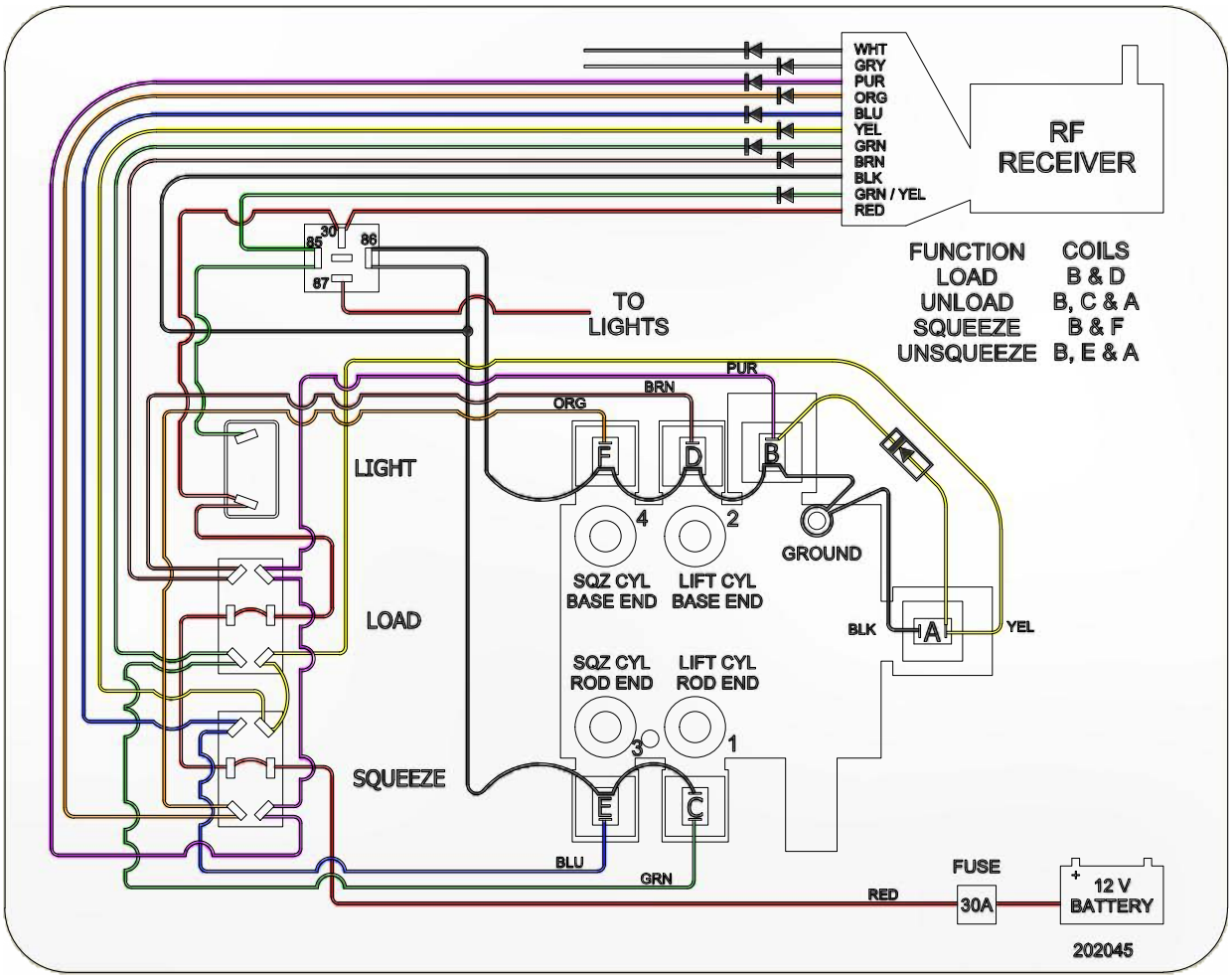
To teach the transmitter ID code to the receiver, use the following procedure:

1. Make sure the receiver and transmitter are OFF.
2. Press and hold transmitter's button 1 and 8 then press Power button until both LEDs start blinking then release buttons.
3. Apply power to the receiver.
4. Wait for ~5 seconds or until the green LED on the transmitter starts blinking rapidly.
5. Teach complete.

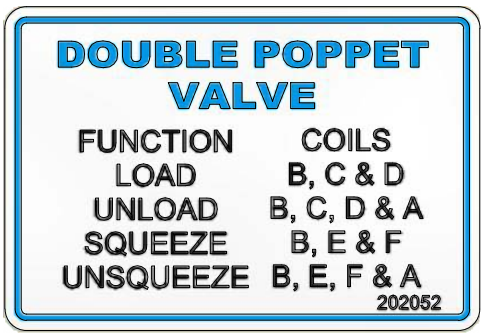
SPECIFICATIONS:

RF Transmit power (EIRP): 10 mW
RF Frequency: 902-928 MHz
Operating temperature - Radio: -40C to +85C
Battery life (min): 30 hours continuous.
Vibration: 3G to 200Hz
Outputs: 5A max each (20A system max)

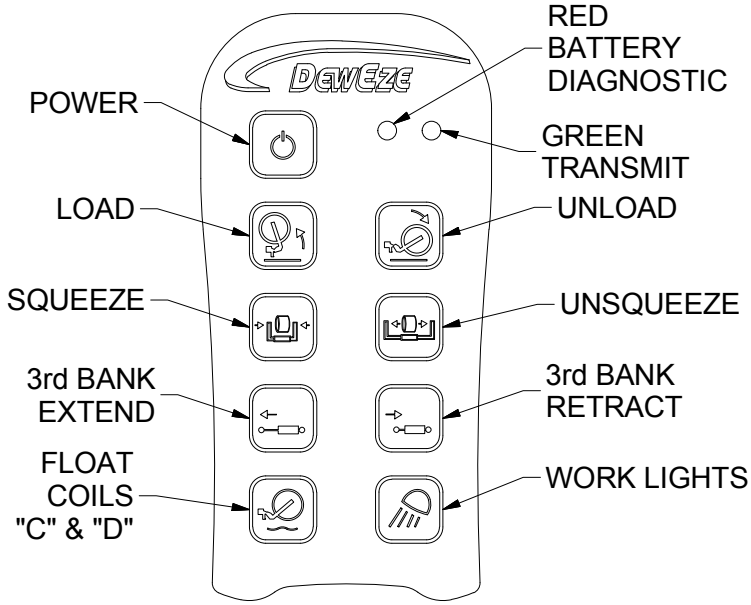
2 Bank Wiring, Kar-Tech Remote



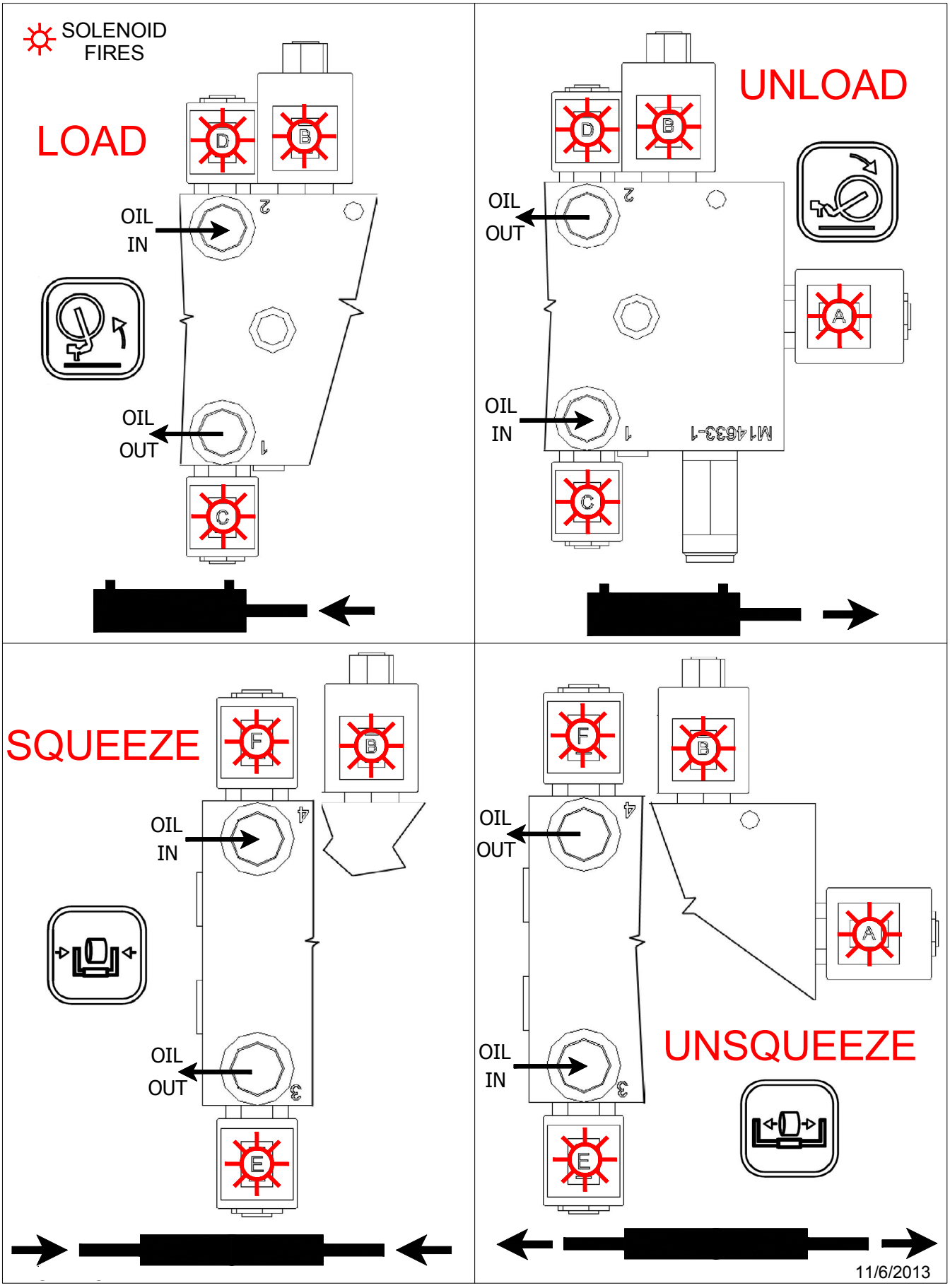
Decal Part# 202045 Harness Part# 232087



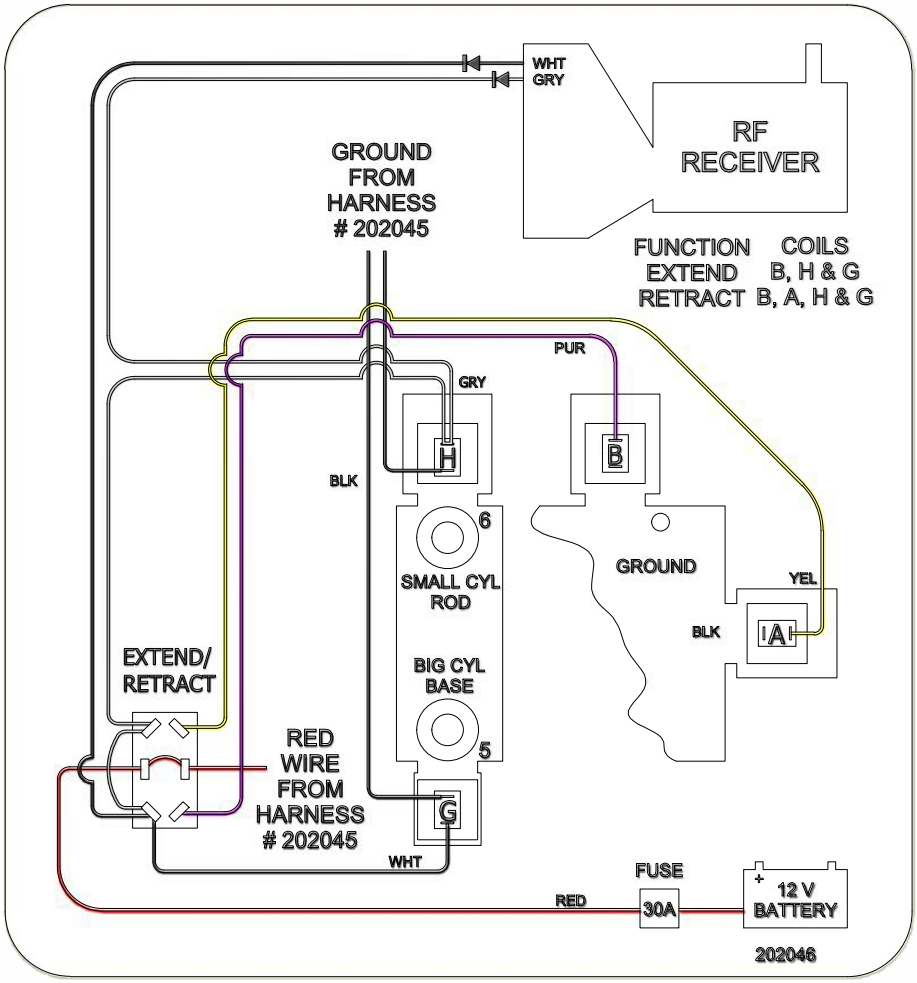
The Pivot Squeeze Bed
Has a Double Poppet Valve
With Jumper Wires Between
C & D (Green)
E & F (Blue)



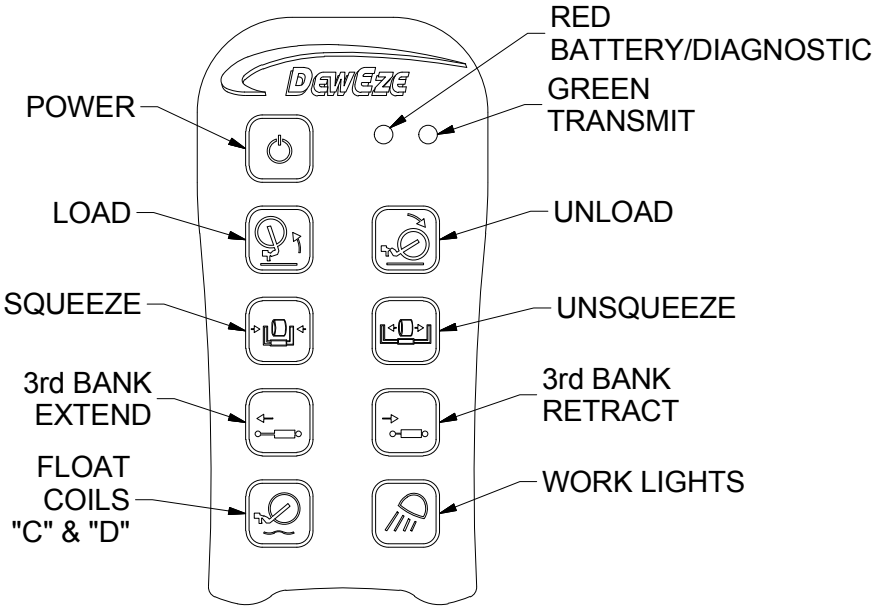
11/6/2013


SOLENOID FIRES
LOAD
OIL IN
OIL OUT
D
B
C
UNLOAD
OIL OUT
OIL IN
A
M14633-1
SQUEEZE
F
E
UNSQUEEZE
11/6/2013

3rd Bank Wiring, Kar-Tech Remote



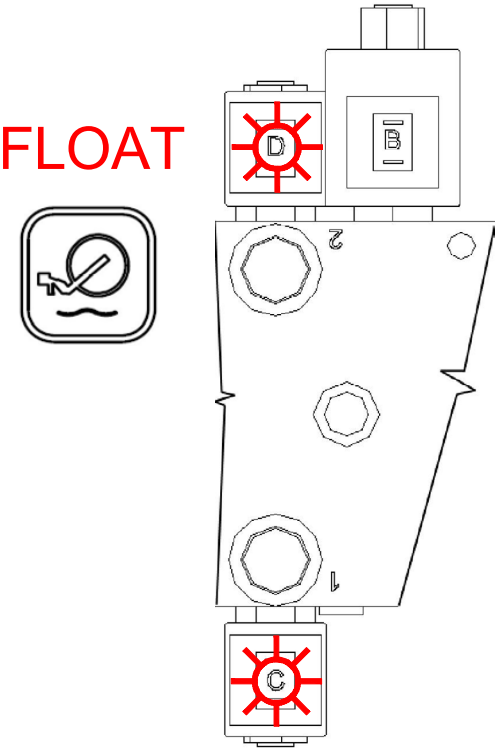
Decal Part# 202046 Harness Part# 232088



3/11/2011

SOLENOID FIRES

FLOAT



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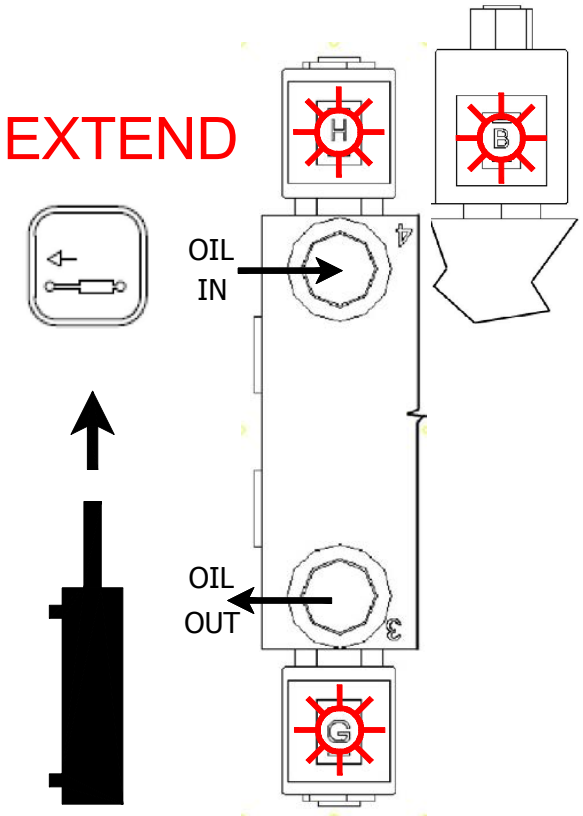

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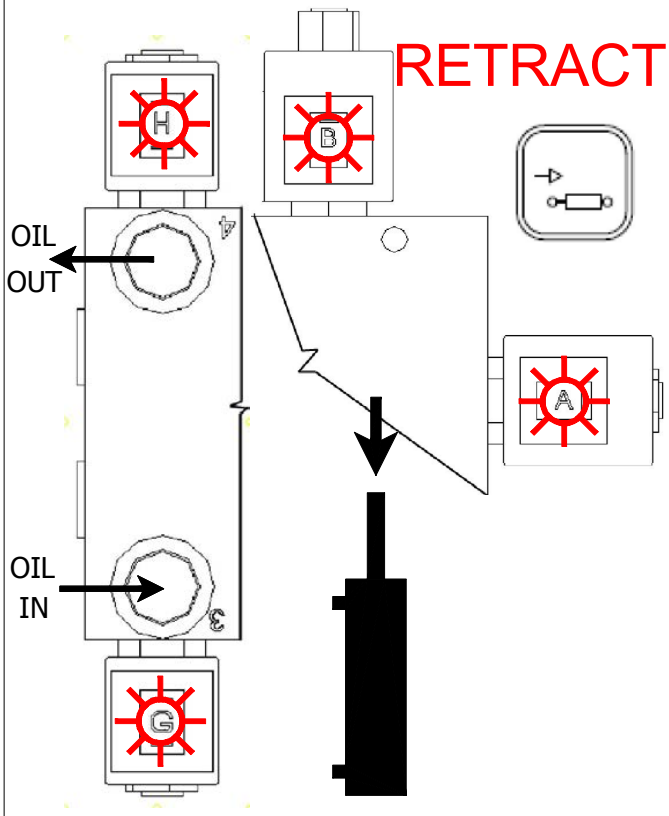
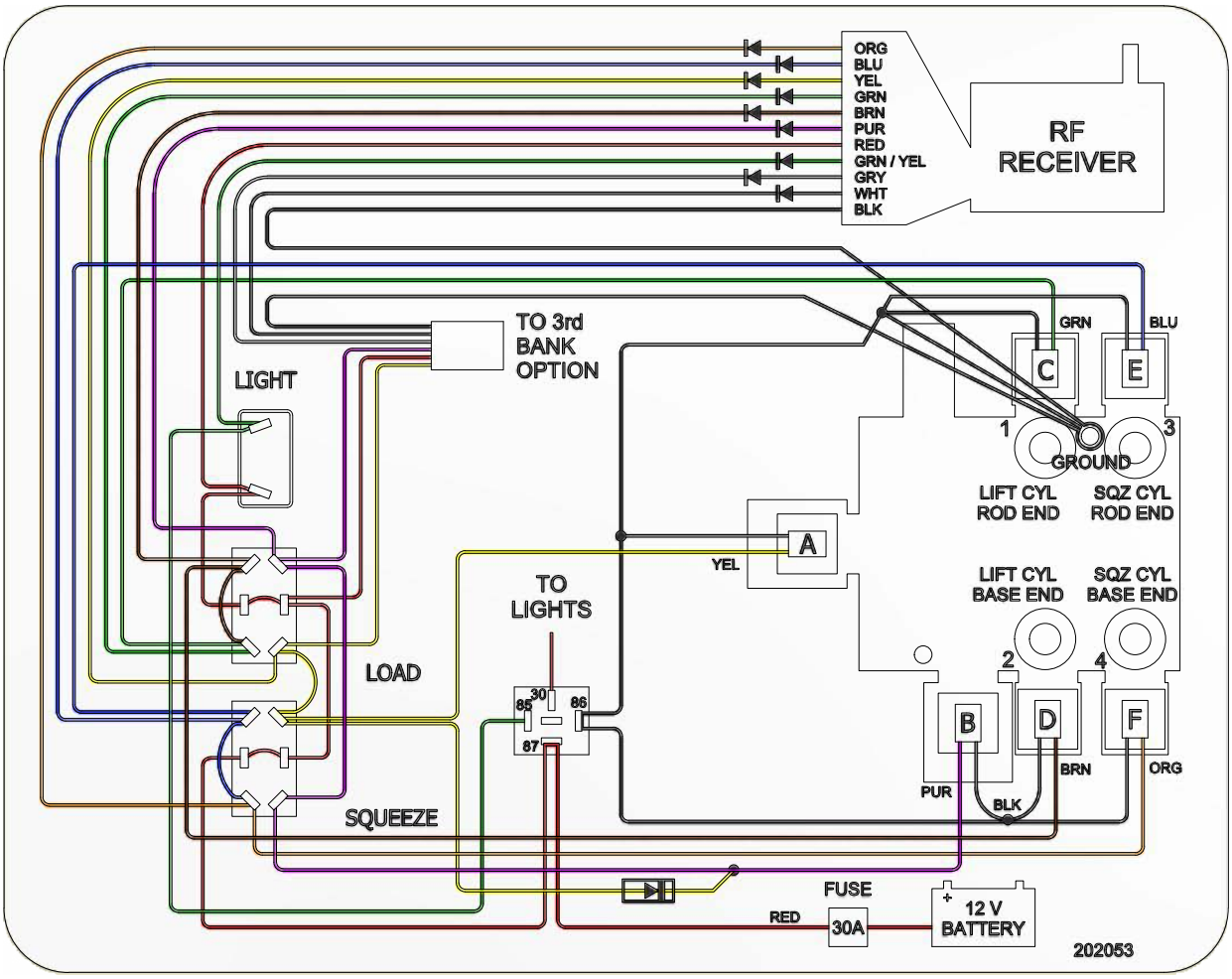


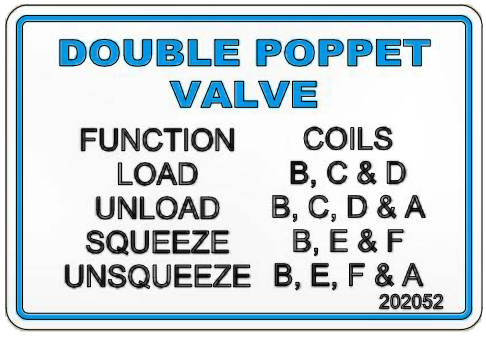
3/11/2011

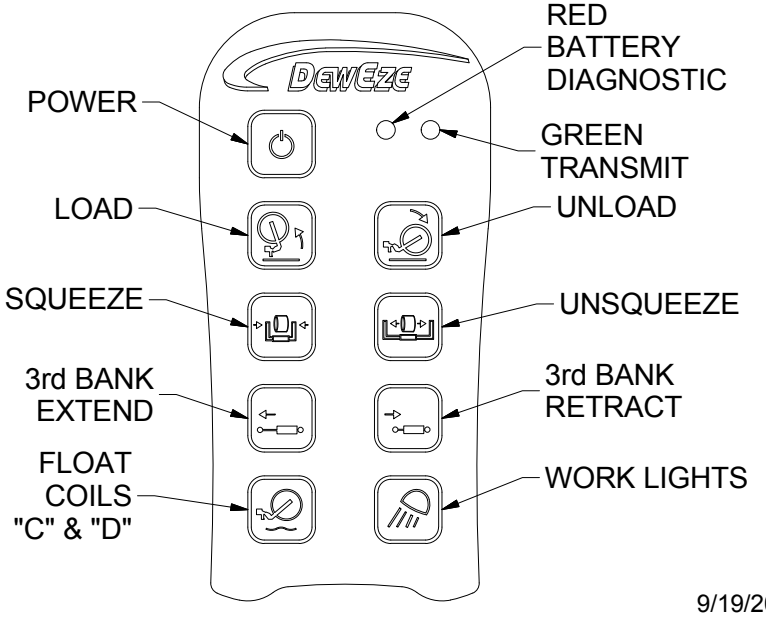
2 Bank Wiring, Kar-Tech Remote

Gen 3 Double Poppet, Deutsch

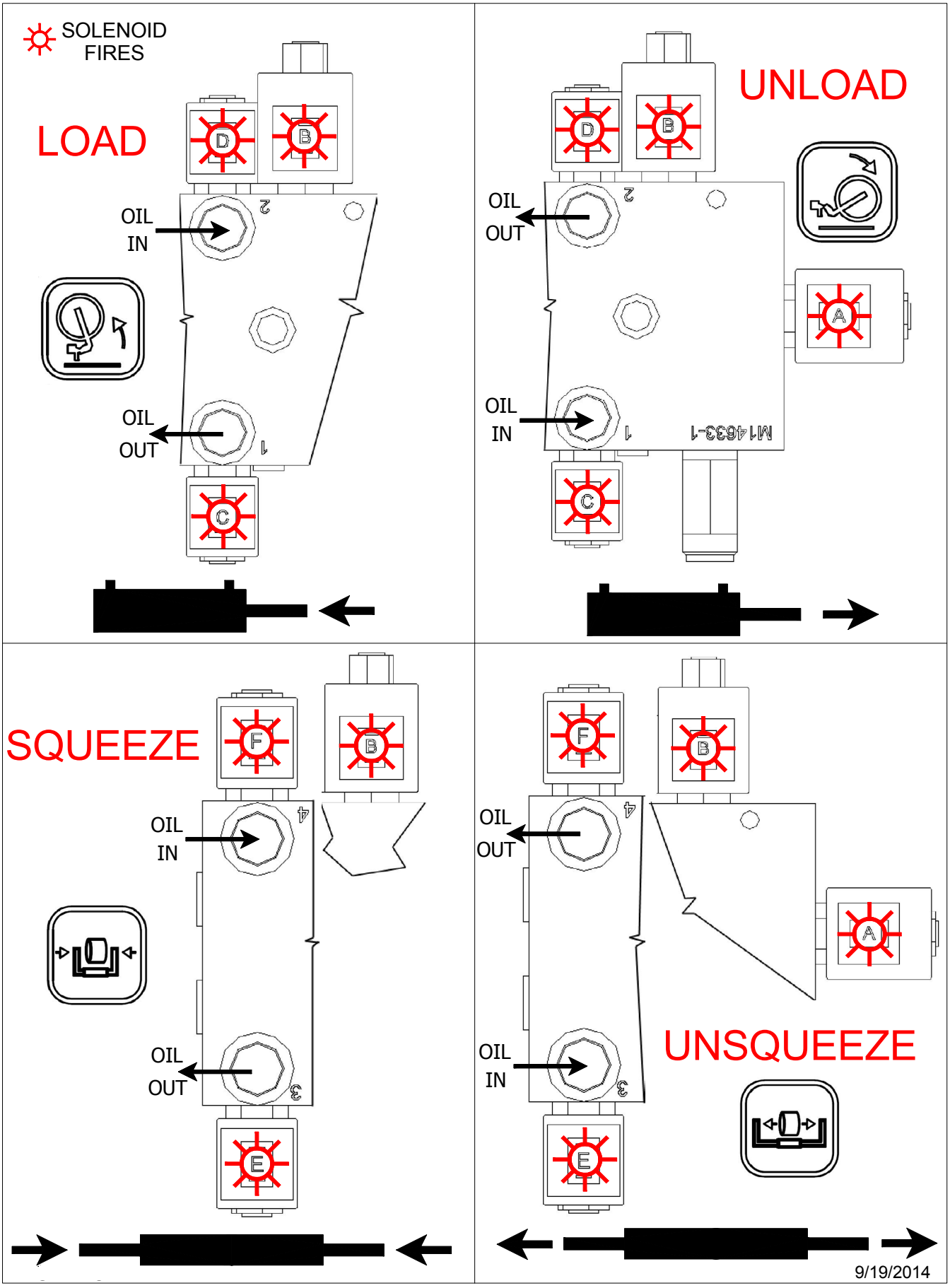


Decal Part# 202053 Harness Part# 232098



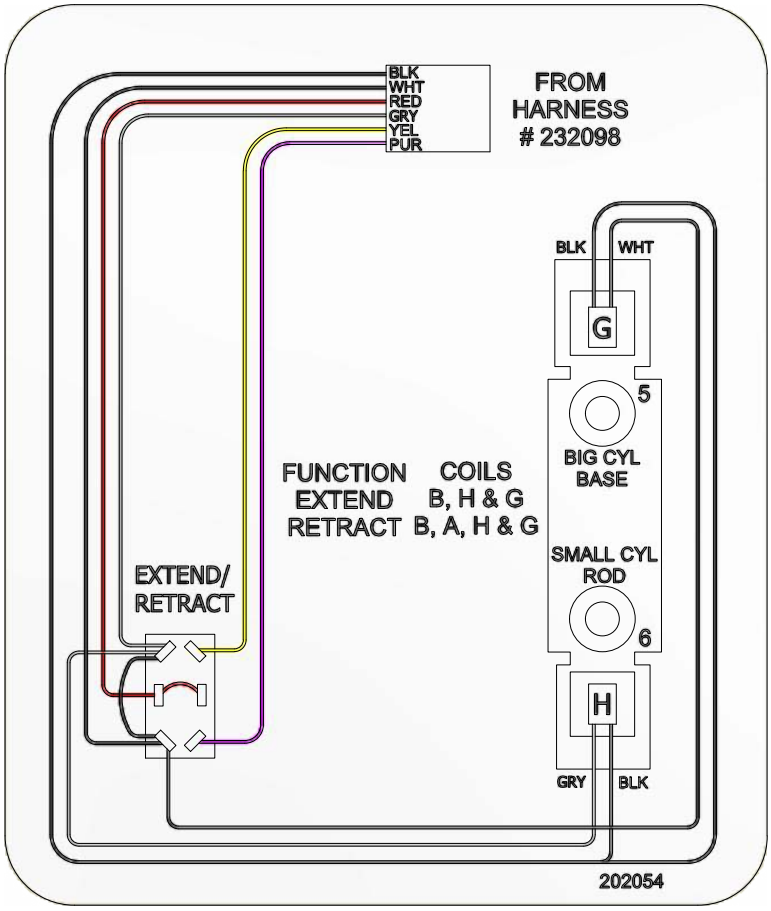


9/19/2014


SOLENOID FIRES
LOAD
OIL IN
OIL OUT
D
B
C
UNLOAD
OIL OUT
OIL IN
A
M14633-1
SQUEEZE
F
E
UNSQUEEZE
9/19/2014

3rd Bank Wiring, Kar-Tech Remote

Gen 3 Double Poppet, Deutsch



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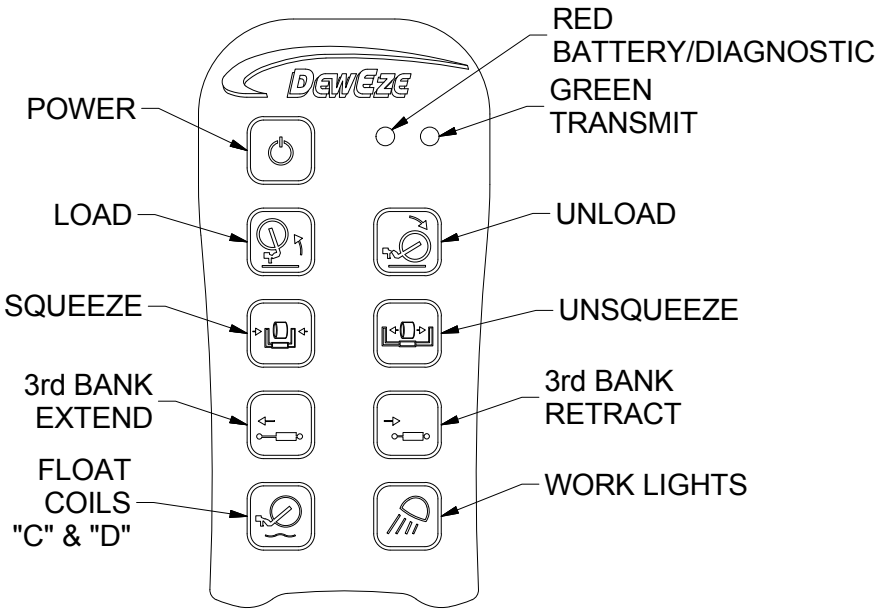
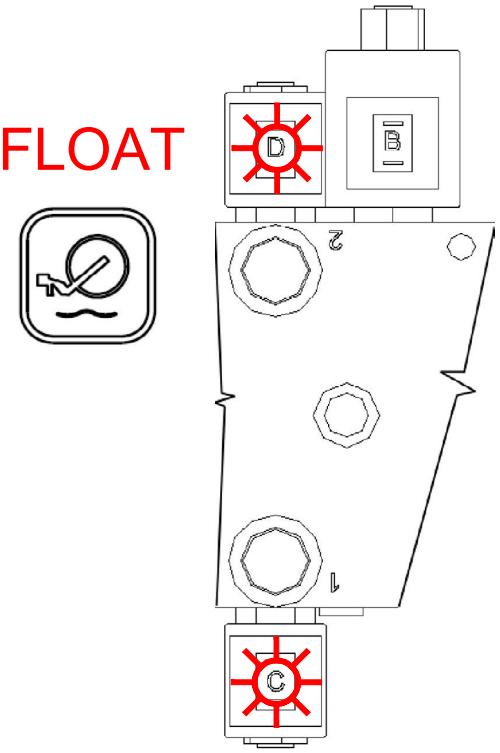


9/19/2014

SOLENOID FIRES

FLOAT



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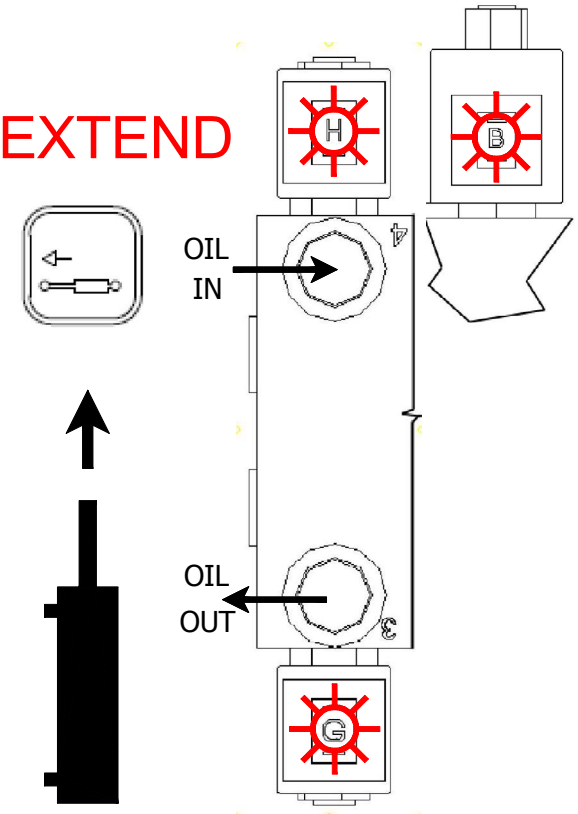

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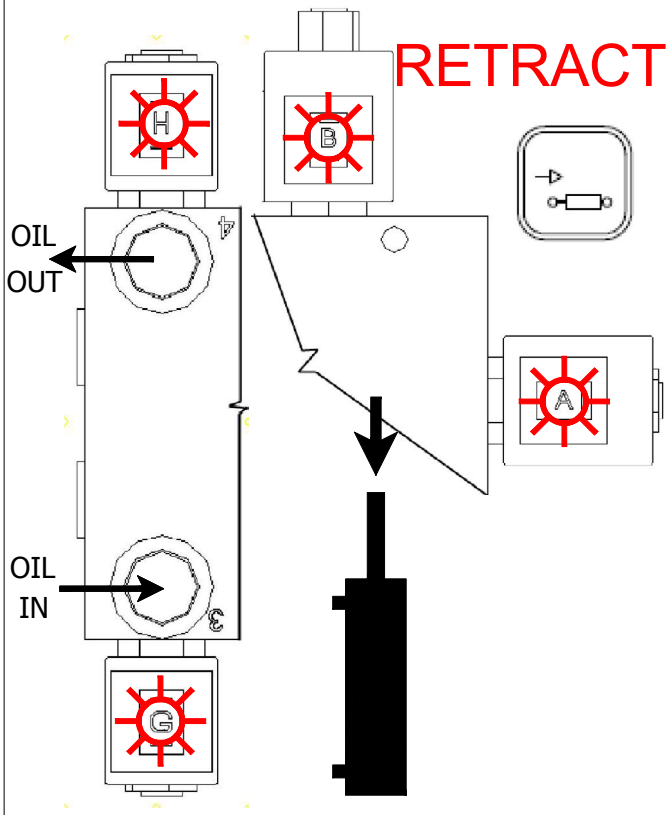
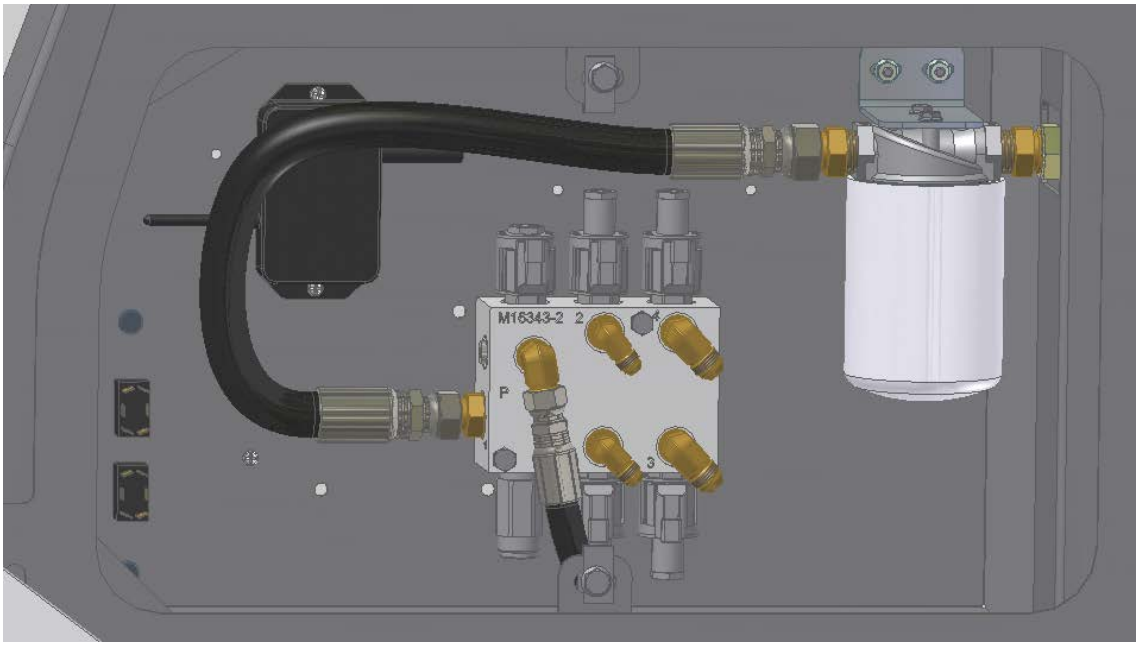


9/19/2014

E / H KIT INSTALLATION INSTRUCTIONS

* Read all instructions first.



1. Attach adapters to E/H valve and install inside cavity on headache rack.

2. Attach valve harness per diagram on decal.

3. Attach return hose to valve and filter housing. Attach pressure hose from pump.

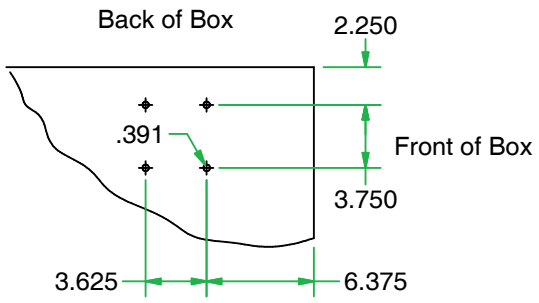
4. Attach 1/2” hoses from squeeze cylinder to valve ports #3 & #4.

5. Attach 3/8” hoses from lift cylinder to valve ports #1 & #2.

6. Use cover plate to locate cutout in right side toolbox.

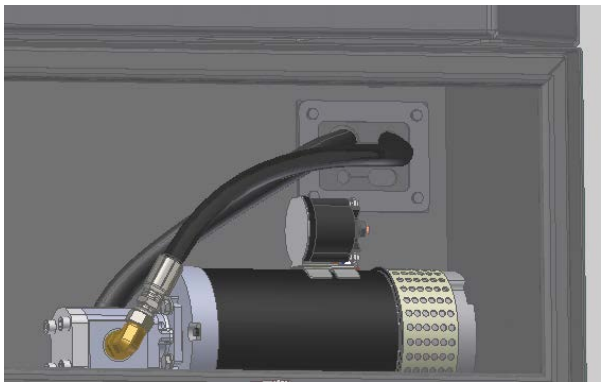
7. Use access cover or edge molding to protect hoses.

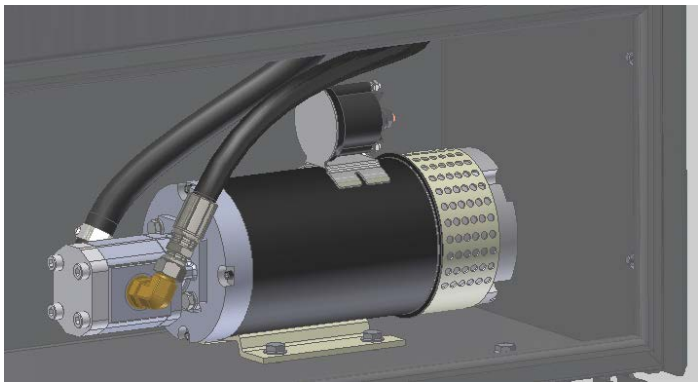
8. Drill holes for 3/8” bolts as indicated and bolt pump to inside of toolbox.



9. Attach power harness as indicated.

10. Attach 30-amp fuse holder to positive terminal on battery, run wire through switch on dash and then to the red wire on the harness.





11. Attach suction hose and pressure hose to pump with adapters provided.

12. Attach suction hose to bottom of reservoir.

13. Run battery cables through hole in toolbox and attach to E/H motor as indicated.

14. Run battery cables along frame rail and attach black cable to negative terminal on battery.

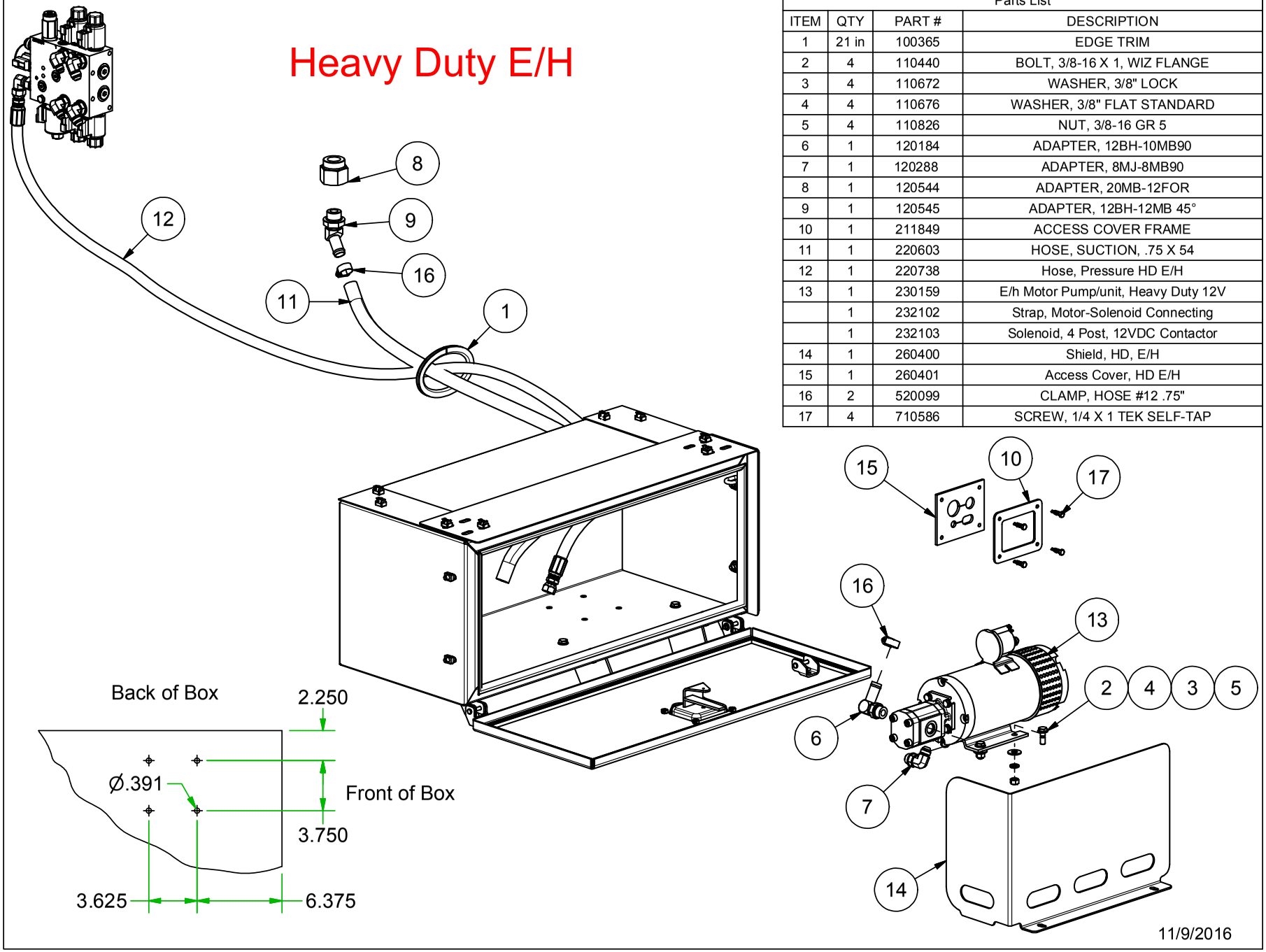
15. Attach 200-amp fuse holder to positive battery terminal.

16. Insert 200-amp fuse.

17. Attach red cable from E/H ontop of “ice cube” fuse. Install rubber cap.

If installing the 735021 Switch Unit — Read the E/H Hybrid specific instructions first.

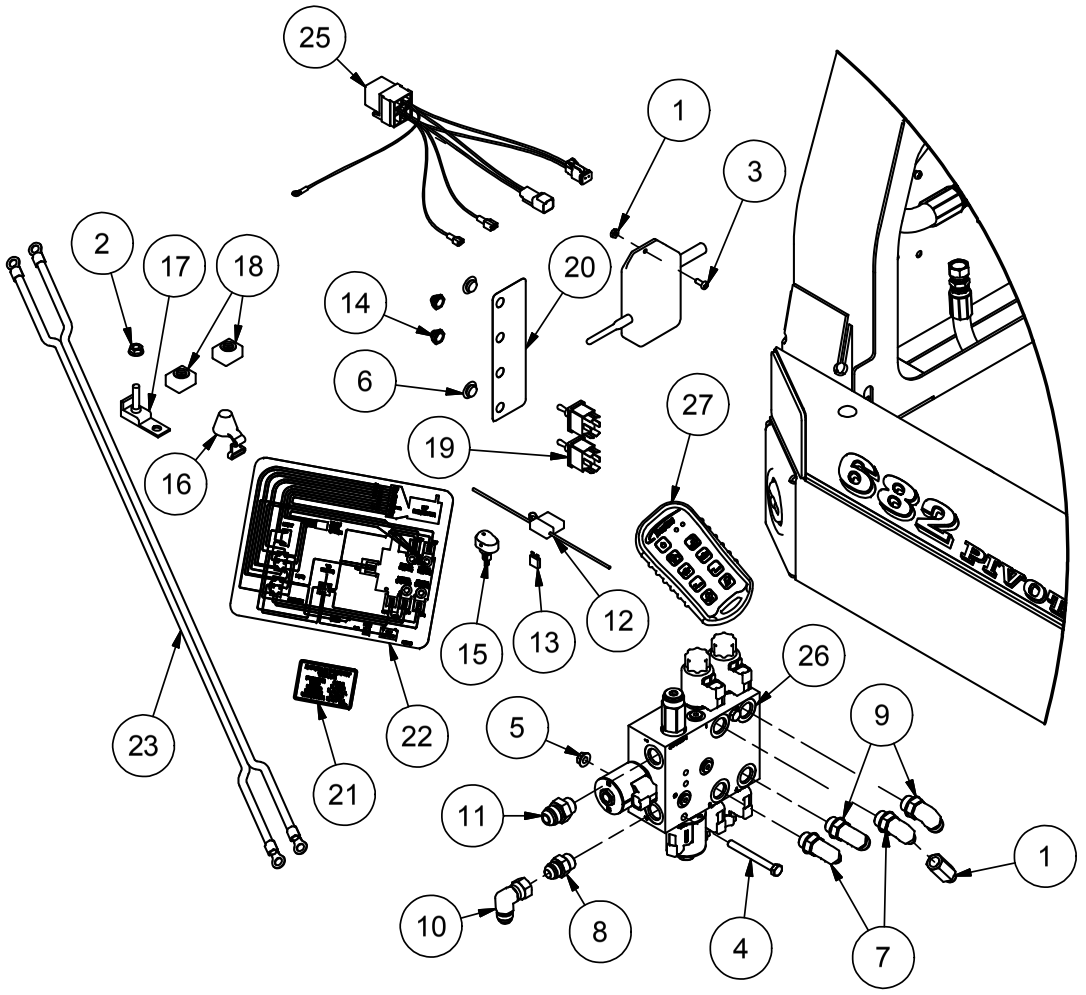
Heavy Duty E/H



Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	21 in	100365	EDGE TRIM
2	4	110440	BOLT, 3/8-16 X 1, WIZ FLANGE
3	4	110672	WASHER, 3/8" LOCK
4	4	110676	WASHER, 3/8" FLAT STANDARD
5	4	110826	NUT, 3/8-16 GR 5
6	1	120184	ADAPTER, 12BH-10MB90
7	1	120288	ADAPTER, 8MJ-8MB90
8	1	120544	ADAPTER, 20MB-12FOR
9	1	120545	ADAPTER, 12BH-12MB 45°
10	1	211849	ACCESS COVER FRAME
11	1	220603	HOSE, SUCTION, .75 X 54
12	1	220738	Hose, Pressure HD E/H
13	1	230159	E/h Motor Pump/unit, Heavy Duty 12V
	1	232102	Strap, Motor-Solenoid Connecting
	1	232103	Solenoid, 4 Post, 12VDC Contactor
14	1	260400	Shield, HD, E/H
15	1	260401	Access Cover, HD E/H
16	2	520099	CLAMP, HOSE #12 .75"
17	4	710586	SCREW, 1/4 X 1 TEK SELF-TAP

Heavy Duty E/H, W/Remote Part# 205115			
ITEM	QTY	PART #	DESCRIPTION
1	3	110119	NUT, 10-24 LOCK
2	1	110141	NUT, M8 X 1.25 WIZFLANGE
3	3	110264	BOLT, 10-24 X .5 STAINLESS, PHILLIPS
4	2	110538	BOLT, 5/16-18 X 3.0
5	2	110606	NUT, 5/16-18 WIZ FLANGE
6	2	110753	PLUG, 1/2" BUTTON PLASTIC
7	2	120134	ADAPTER, 6MJ-8MB90
8	1	120277	ADAPTER, 8MJ-8MB
9	2	120288	ADAPTER, 8MJ-8MB90
10	1	120368	ADAPTER, 8MJ-8FJX90
11	1	120493	ADAPTER, 10MJ-8MB
12	1	132001	FUSE HOLDER, ATC, 14 GA., MINI
13	1	132002	FUSE, MINI 30 AMP
14	2	132035	SWITCH BOOT
15	1	132044	Switch, Spst, Rocker Led
16	1	132092	FUSE COVER, BUSS CFCOVER-1R
17	1	132093	FUSE HOLDER, BUSS CFBAR1-M8XSP
18	2	132094	FUSE 200 AMP, BUSS MRBF-200
19	2	132127	Switch, Toggle, DPDT, (On)-OFF-(ON)
20	1	202003	DECAL, SWITCH IDENTIFICATION
21	1	202052	Decal, Double Poppet Valve
22	1	202053	Decal, Wiring Diagram, Double Poppet Deutsch
23	1	230155	BATTERY CABLE, 2GA TWIN LEAD, 186"
24	1	232098	Harness, Flatbed, Double Poppet Deutsch
25	1	232115	Harness, Flatbed Valve, E/H Control
26	1	223044	Flatbed Valve, Small, Monoblock Ver II
27	1	233003	Transmitter & Receiver, Kar-Tech

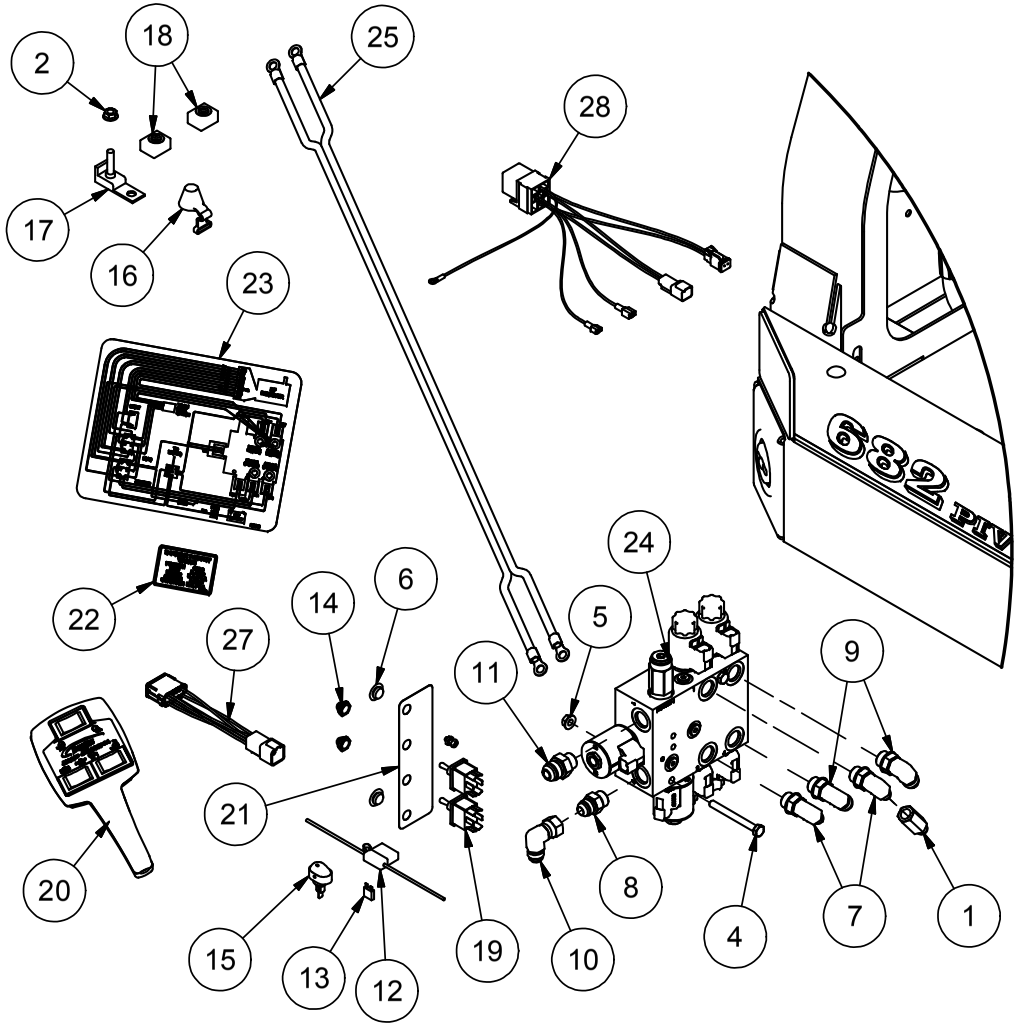
Heavy Duty E/H Kit
W/ Remote



11/9/2016

Heavy Duty E/H, W/Hand Control Part# 205116			
ITEM	QTY	PART #	DESCRIPTION
1	3	110119	NUT, 10-24 LOCK
2	1	110141	NUT, M8 X 1.25 WIZFLANGE
3	3	110264	BOLT, 10-24 X .5 STAINLESS, PHILLIPS
4	2	110538	BOLT, 5/16-18 X 3.0
5	2	110606	NUT, 5/16-18 WIZ FLANGE
6	2	110753	PLUG, 1/2" BUTTON PLASTIC
7	2	120134	ADAPTER, 6MJ-8MB90
8	1	120277	ADAPTER, 8MJ-8MB
9	2	120288	ADAPTER, 8MJ-8MB90
10	1	120368	ADAPTER, 8MJ-8FJX90
11	1	120493	ADAPTER, 10MJ-8MB
12	1	132001	FUSE HOLDER, ATC, 14 GA., MINI
13	1	132002	FUSE, MINI 30 AMP
14	2	132035	SWITCH BOOT
15	1	132044	Switch, Spst, Rocker Led
16	1	132092	FUSE COVER, BUSS CFCOVER-1R
17	1	132093	FUSE HOLDER, BUSS CFBAR1-M8XSP
18	2	132094	FUSE 200 AMP, BUSS MRBF-200
19	2	132127	Switch, Toggle, DPDT, (On)-OFF-(ON)
20	1	150044	Hand Control & Cable Assy, 2 Bank
21	1	202003	DECAL, SWITCH IDENTIFICATION
22	1	202052	Decal, Double Poppet Valve
23	1	202053	Decal, Wiring Diagram, Double Poppet Deutsch
24	1	223044	Flatbed Valve, Small, Monoblock Ver II
25	1	230155	BATTERY CABLE, 2GA TWIN LEAD, 186"
26	1	232098	Harness, Flatbed, Double Poppet Deutsch
27	1	232105	Harness, Adapter 2 Bank, Hand Control
28	1	232115	Harness, Flatbed Valve, E/H Control

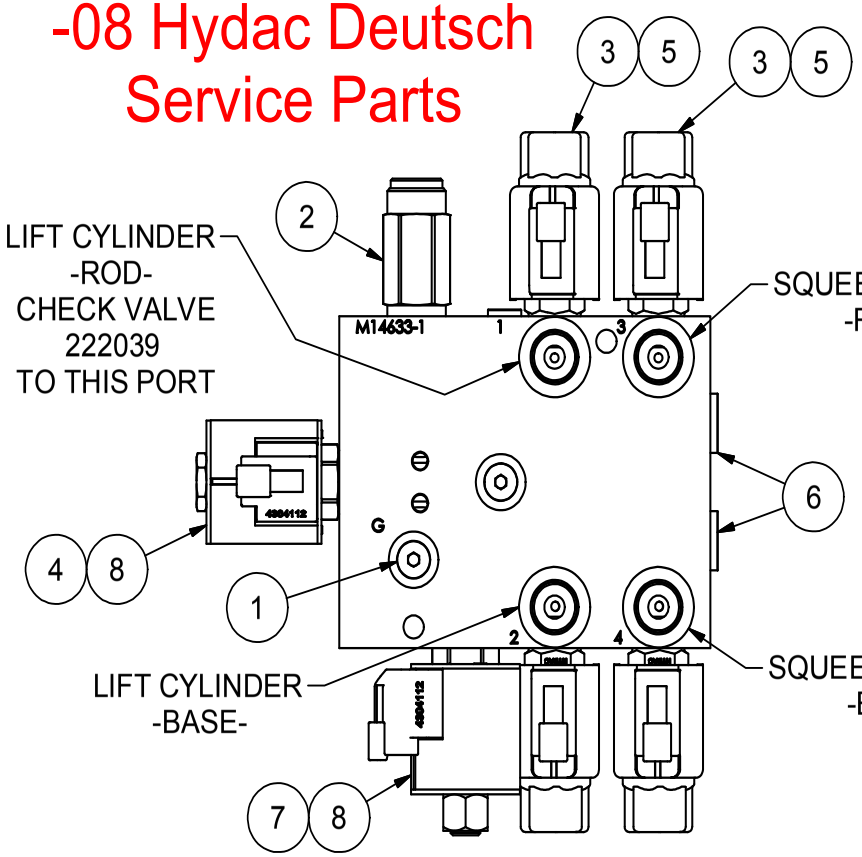
Heavy Duty E/H Kit W/ Hand Control



11/9/2016

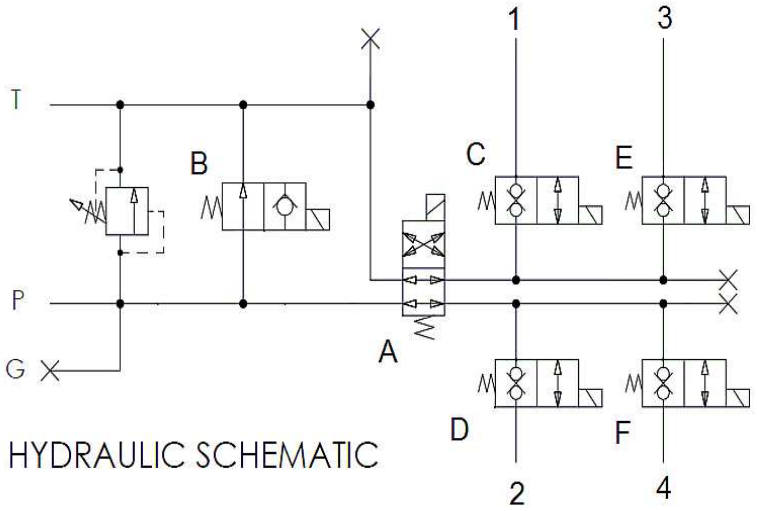
Flatbed Valve -08 Hydac Deutsch Service Parts

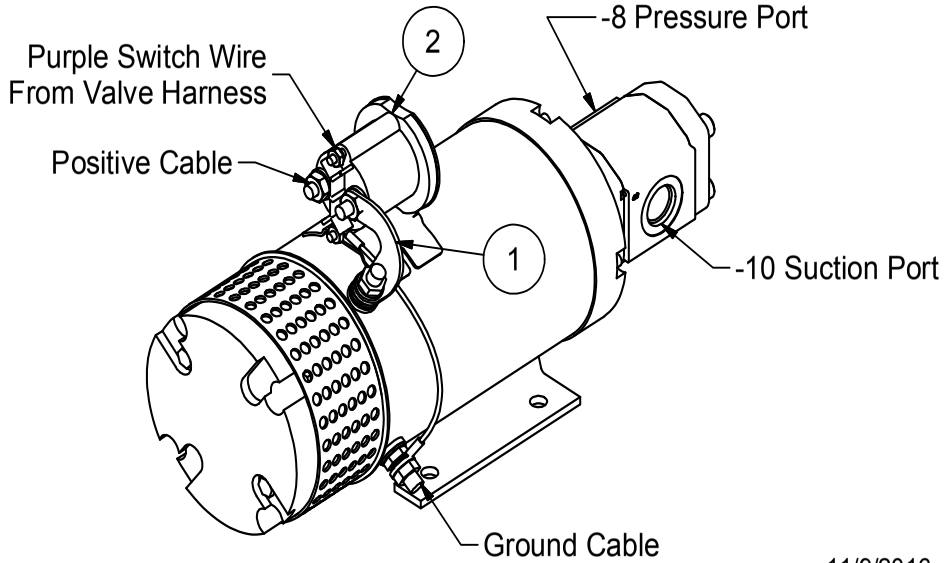
Flatbed Valve, Small, Hydac Deutsch P/N 223044			
ITEM	QTY	PART #	DESCRIPTION
1	3	120062	O-Ring Plug, #4 7/16-20
2	1	222004	Valve, Pressure Relief
3	4	222010	Cartridge, #8 HYDAC Double Poppet
4	1	222045	#10 SOLENOID, 2 POSITION 4 WAY
5	4	222059	Coil, #8 Hydac, DT04-2P Suppressed
6	2	720164	O-Ring Plug, #8 3/4-16
7	1	820232	Spool, #10 Valve
8	2	922119	Coil, #10 Hydraforce, DT04-2P Suppressed



Heavy Duty E/H Motor & Pump

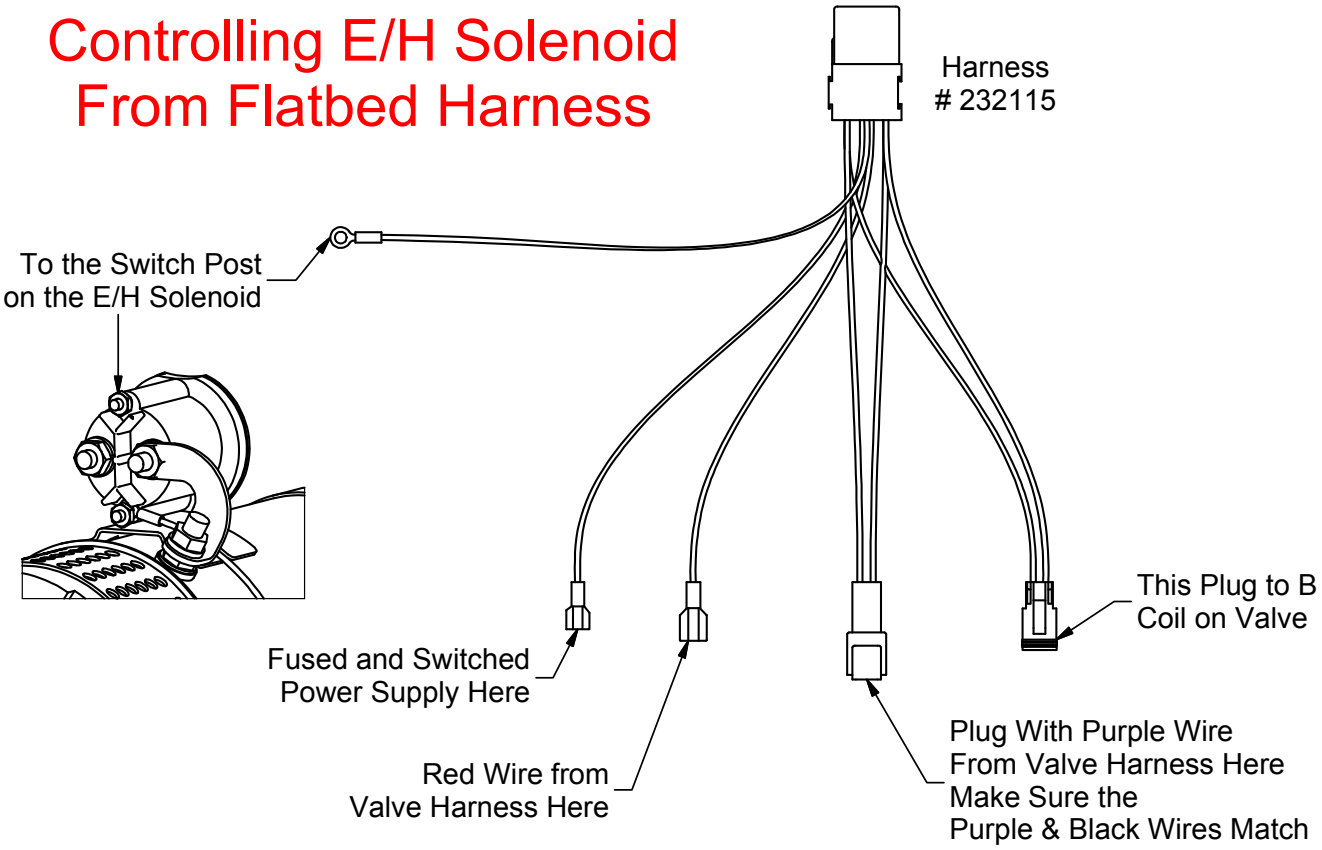
230159 E/H MOTOR & PUMP, HD 12V			
ITEM	QTY	PART #	DESCRIPTION
1	1	232102	Strap, Motor-Solenoid Connecting
2	1	232103	Solenoid, 4 Post, 12VDC Contactor

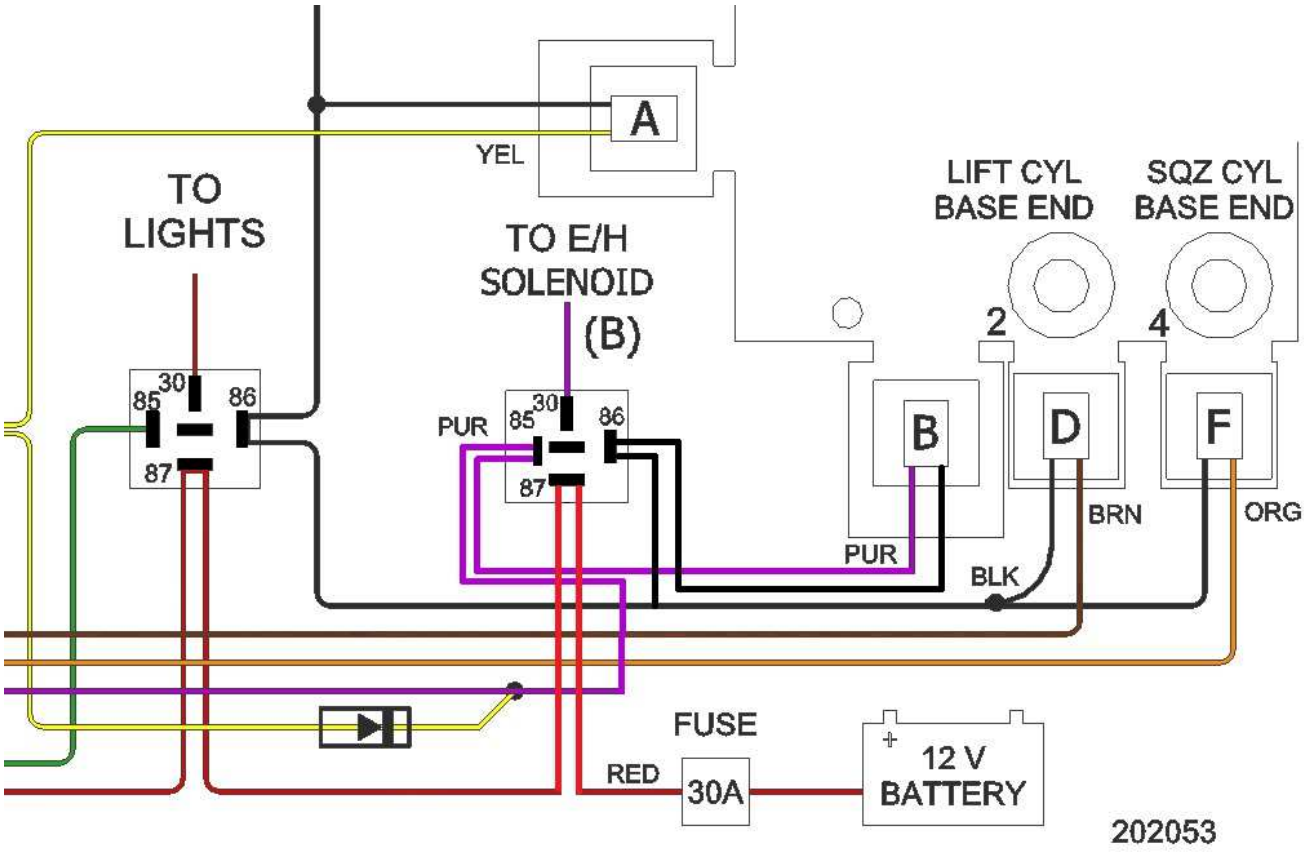




11/9/2016

Controlling E/H Solenoid From Flatbed Harness

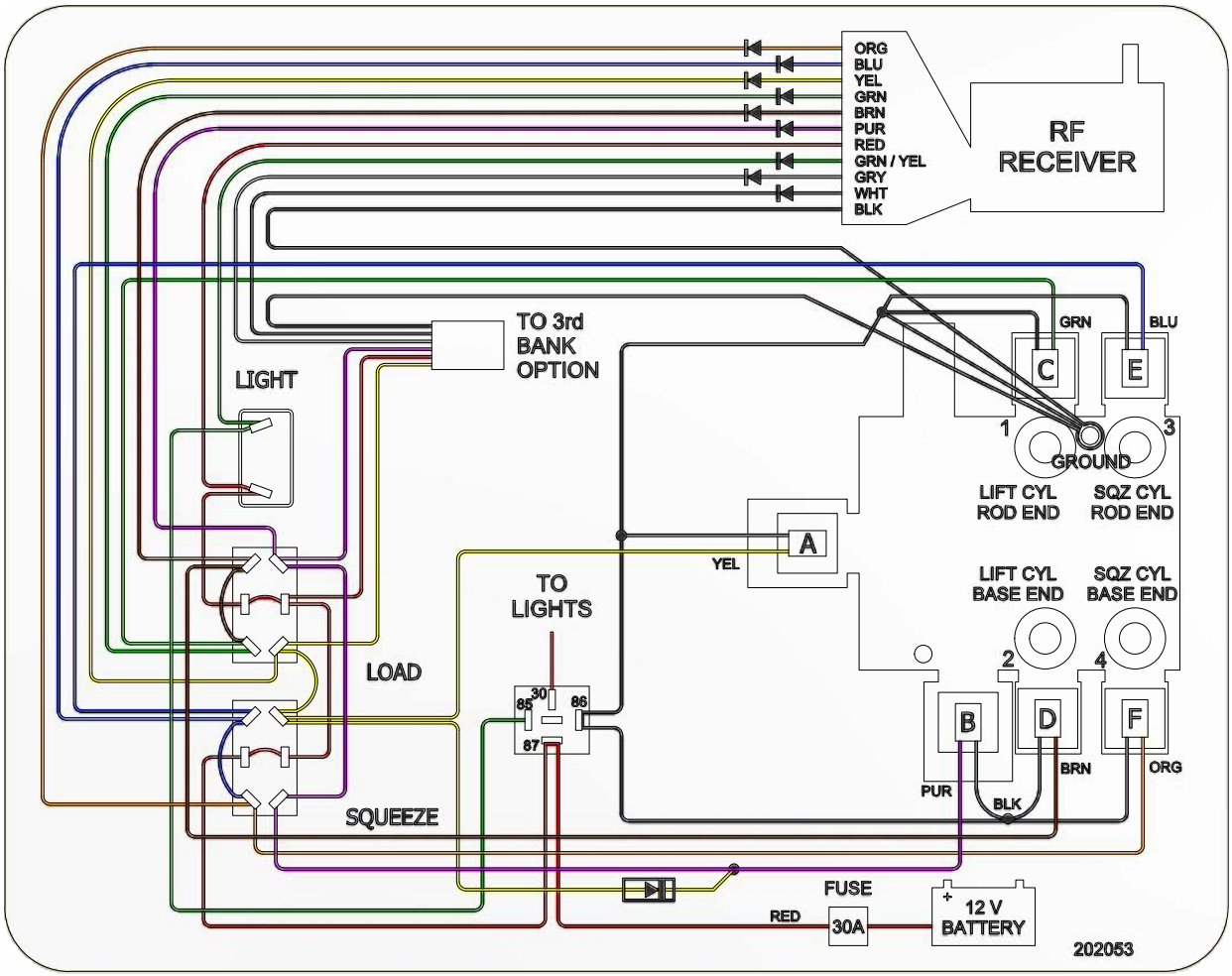




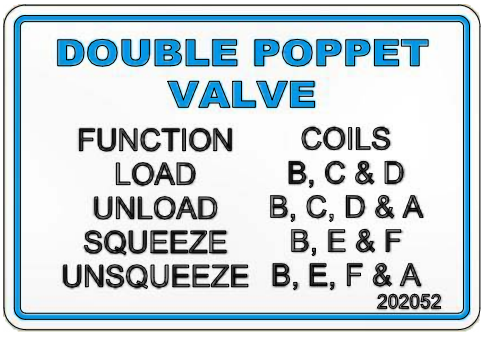
11/9/2016

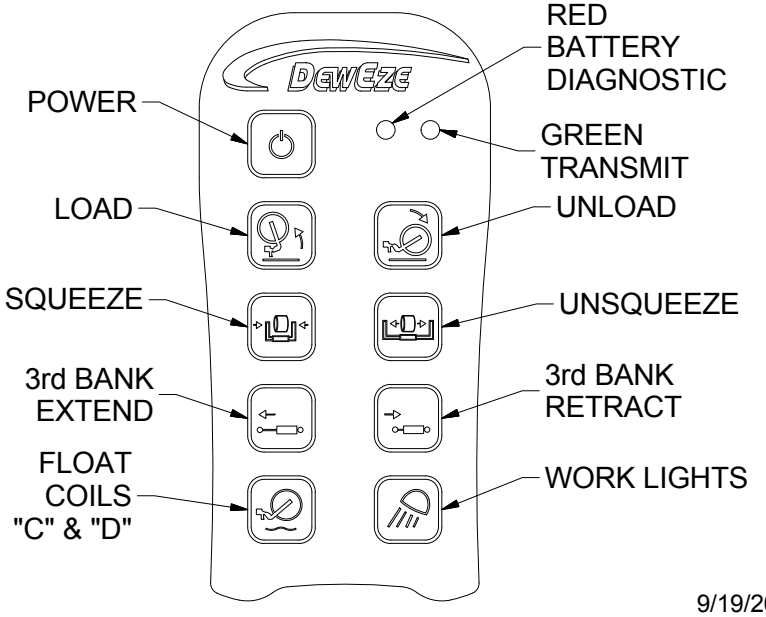
2 Bank Wiring, Kar-Tech Remote

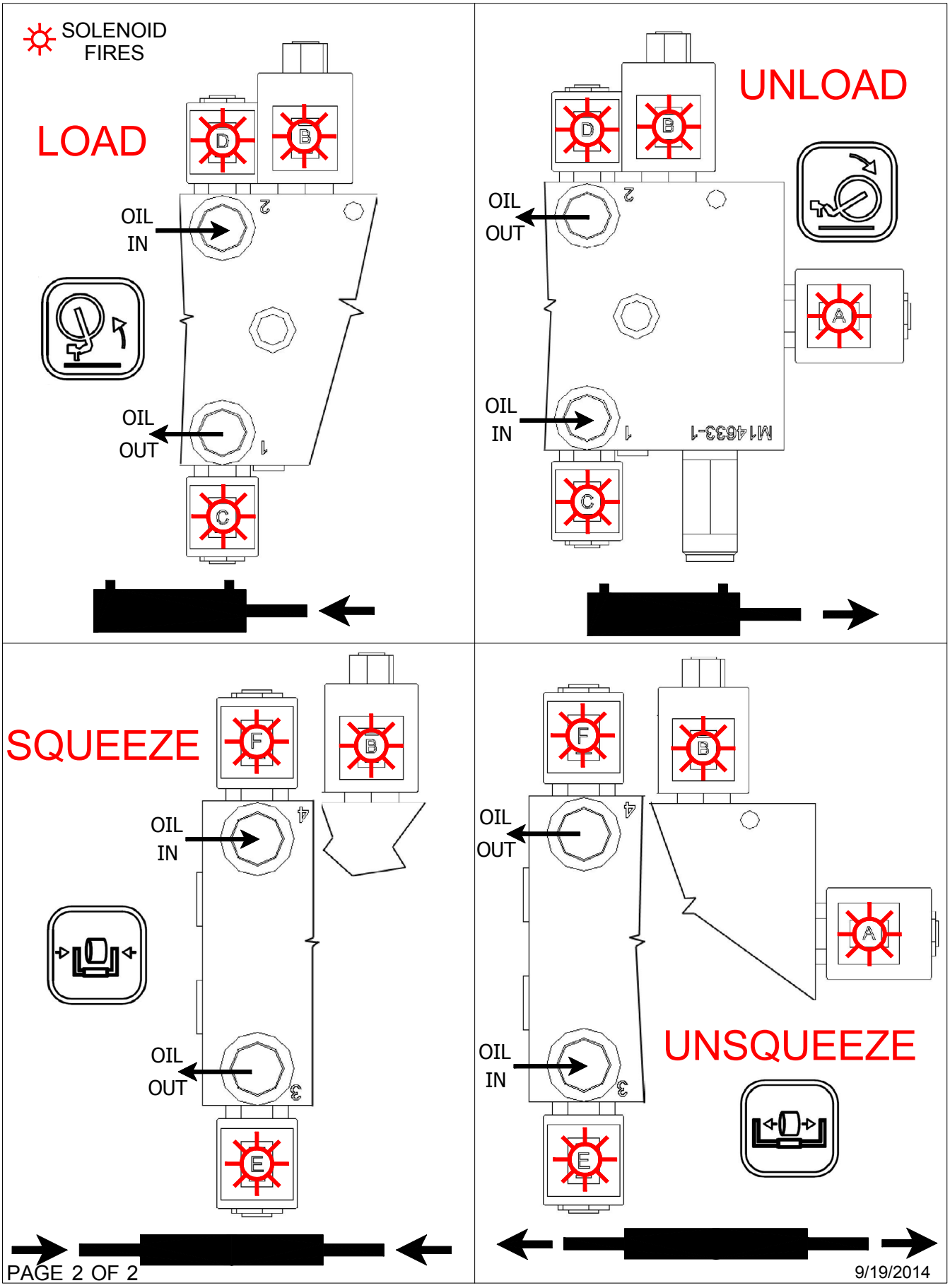
Gen 3 Double Poppet, Deutsch



Decal Part# 202053 Harness Part# 232098





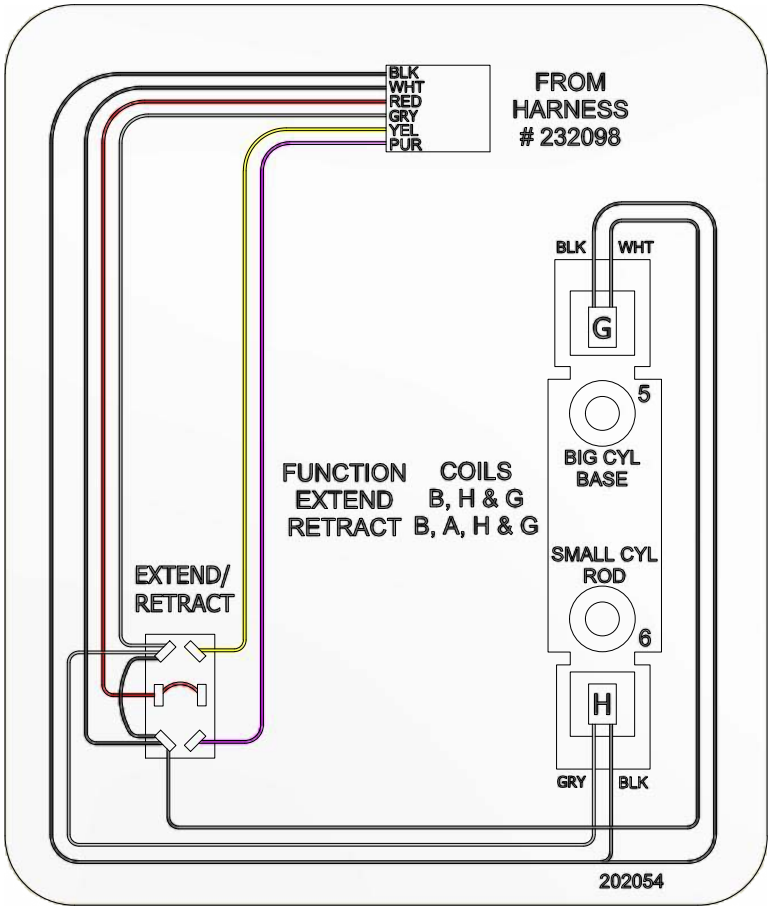


PAGE 2 OF 2

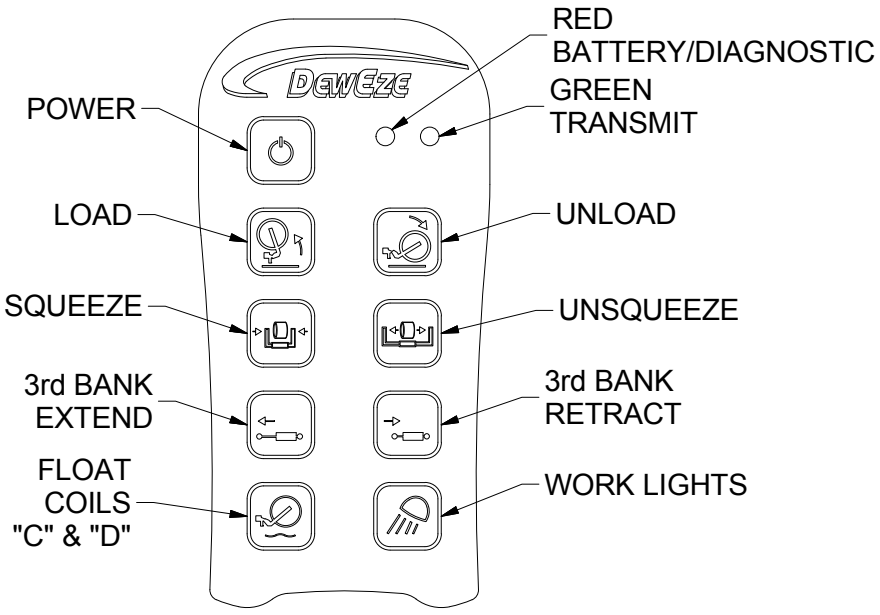
9/19/2014

3rd Bank Wiring, Kar-Tech Remote

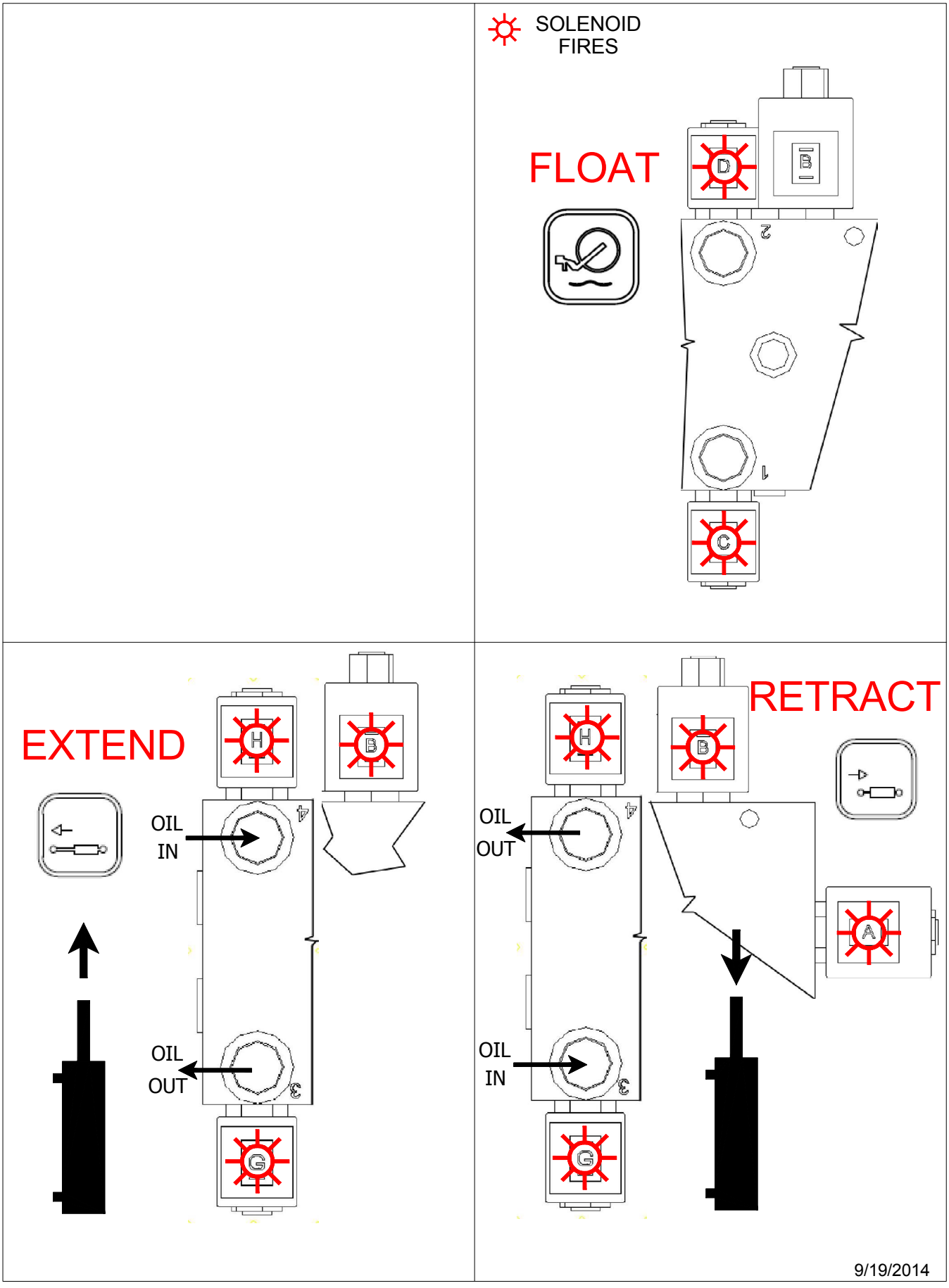
Gen 3 Double Poppet, Deutsch



Decal Part# 202054 Harness Part# 232099



9/19/2014


SOLENOID FIRES
FLOAT
D
B
2
1
C
EXTEND
H
B
OIL IN
4
OIL OUT
3
G
RETRACT
H
B
OIL OUT
4
OIL IN
3
G
A
9/19/2014

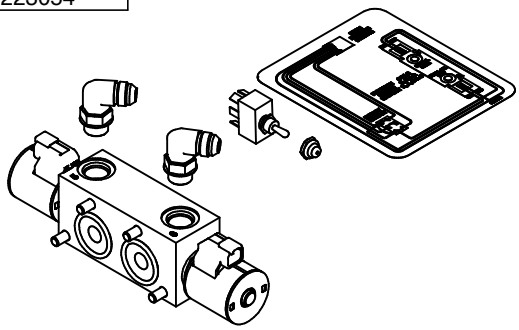
Appendix IV

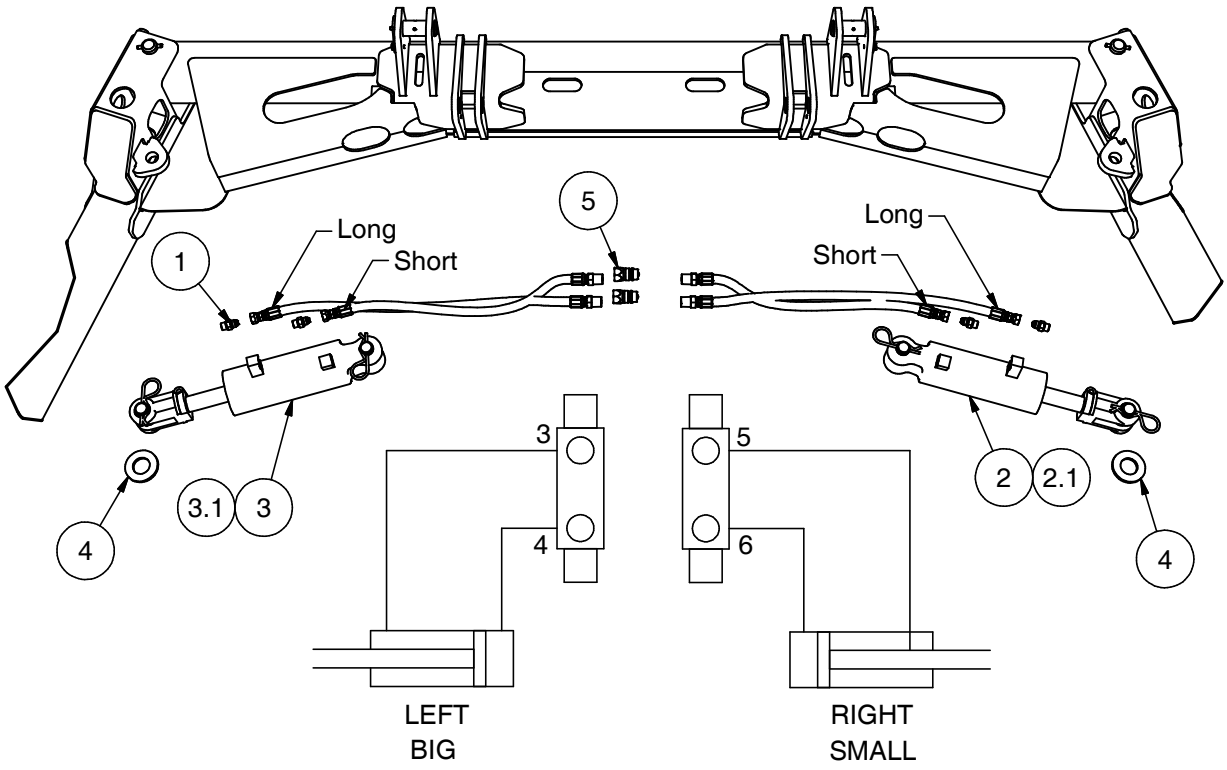
Pivot Squeeze Independent Arm Control Hoses				
Hoses	--70	--75	--82	--87
Independent Squeeze Front to Back (2ea)	220724 (110in)	220725 (127in)	220726 (137in)	220727 (163in)
Kit	223055	223056	223057	223058

Pivot Squeeze Hoses			
Hoses	67-	68-	7--
Pivot Squeeze Short	220712 (27in)	220717 (30in)	220713 (32in)
Pivot Squeeze Long	220713 (32in)	220718 (35in)	220715 (37in)
Kit number	223052	223053	223054

3rd Bank, Independent Arm (235022)

ITEM	QTY	PART #	DESCRIPTION
1	1	223045	Valve, 3rd Bank add on (223044)
2	2	120288	ADAPTER, 8MJ-8MB90
3	1	232099	Harness, Flatbed 3rd Bank, Deutsch
4	1	132035	SWITCH BOOT
5	1	232086	SWITCH, DPDT, M, 6 PIN, PUSH ON
6	1	202054	Decal, 3rd Bank, Double Poppet Deutsch





Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	4	120319	ADAPTER, 6MJ-6MB
2	1	223042	Pivot Cylinder, 3.0 x 5.0
2.1		212021	Seal Kit
3	1	223043	Pivot Cylinder, 3.25 x 5.0
3.1		212025	Seal Kit
4	4	260302	Shim Washer
5	2	420005	COUPLER, PIONEER MALE

Pivot Squeeze Independent Arm Control Hydraulics

9/22/2014

NOTES

Harper Industries, Inc.
151 E. Highway 160
Harper, KS 67058

Telephone: 620-896-7381
Toll-Free: 800-835-1042
Fax: 620-896-7129

Website: www.harperindustries.com

E-mail: info@harperindustries.com