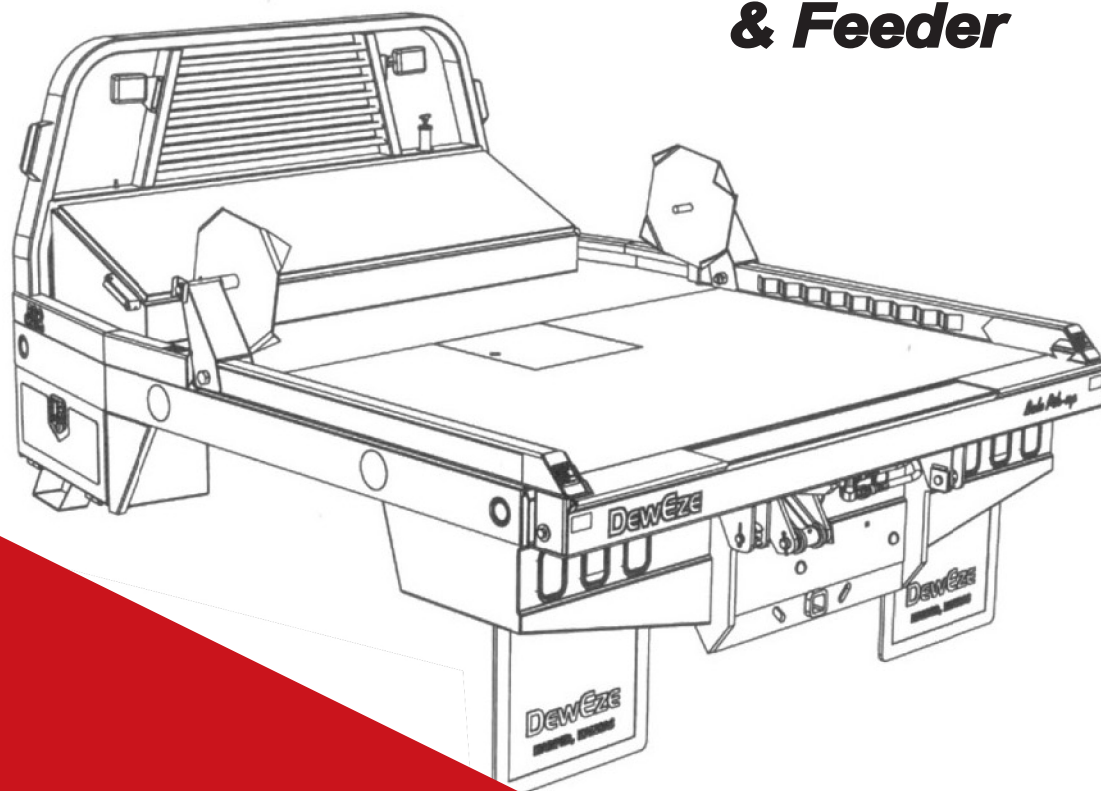




# **400 & 500 Series Flatbed**

## ***Round Bale Transporter & Feeder***



# **Operator's Manual**





**Thank you for purchasing a DewEze Flatbed.**

**TO THE OWNER OR OPERATOR:**

As with all Harper products, the 400 and 500 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.



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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 \_\_\_\_\_

# Table of Contents

## OPERATOR SECTION

- To the Owner or Operator..... 1
- Warranty Statement..... 2
- Table of Contents..... 3
- Specifications..... 4
- Feature Identification
  - Dummy Arms..... 5
  - Hugger Arms..... 5
  - Headache Rack..... 5
  - Gooseneck Hitch..... 5
  - Hitch Plate..... 5
  - Optional Toolbox & Fender Skirt..... 5
  - Remote Hand Control..... 5
- Safety Guidelines
  - Equipment Safety..... 6
  - General Flatbed Safety..... 6
  - Hydraulic Safety..... 6
- Operating Instructions
  - Beginning Operation..... 7
  - Loading..... 7
  - Unloading..... 7
  - Unrolling..... 7
  - Storing the arms..... 7
  - Turning System Off..... 7
- Maintenance
  - Check Daily or Before Use..... 8
  - Grease..... 8
  - Hydraulic Pressure..... 8
  - Hydraulic Oil..... 8
  - Other Maintenance Notes..... 8
- Troubleshooting..... 9

## PARTS SECTION

- Standard Parts
  - Flatbed Standard Parts..... 1.1
  - 1.1.1
  - Flatbed XRM Parts..... 1.2
  - 1.2.1
- Hydraulics
  - Hydraulic Assembly..... 2.1
  - Hydraulic Assembly Valve and Filter..... 2.2
  - Gen 2 Valve-Service Parts..... 2.3
  - Hydraulic Assembly Reservoir..... 2.4
  - 2.4.1
  - 2.4.2
  - Hose Change (after change)..... 2.5
  - Hose Change (before change)..... 2.6
  - 400 Series with Large and Small FPS Valves.. 2.7
  - XRM Hydraulics..... 2.8
  - 2.8.1
  - Hydraulic Assembly Lift & Squeeze..... 2.9
- Lights and Decals
  - 400/500 Series Lights..... 3.1
  - Decals..... 3.2
  - 3.2.1
- Accessories
  - Flatbed Accessories..... 4.1
  - 30" Toolbox ..... 4.2

- Cargo Lights & Across the Bed Toolbox..... 4.3
- Flatbed Accessories Spinners & Risers..... 4.4
- Other Accessories..... 4.5
- Switch, Clutch Control Assy..... 4.6
- Front Skirt Toolbox Replacement..... 4.7
- Appendices
  - I
    - Remote Control..... 5.1
    - 2-Bank Wiring - Kar-Tech Remote..... 5.2
    - 3rd Bank Wiring - Kar-Tech Remote..... 5.3
  - II
    - E/H Power Unit..... 5.4
    - E/H Power Kit..... 5.5
    - 5.5.1
    - E/H Power Kit w/ Remote..... 5.6
    - 5.6.1
    - 30" Toolbox Modification..... 5.7
    - XRM Fitting Update..... 5.8



# Specifications

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

## MODEL IDENTIFICATION

<b>MODEL</b>	<b>470</b>	<b>470W</b>	<b>475</b>	<b>477</b>	<b>478</b>	<b>480</b>	<b>482</b>	<b>485</b>	<b>487</b>	<b>578</b>	<b>582</b>	<b>587</b>
<b>WIDTH</b>	7'	7' 8"	7'	7'	7' 8"	7' 8"	7' 8"	7' 8"	7' 8"	8'	8'	8'
<b>LENGTH</b>	7'	7'	8' 6"	9' 4"	8' 6"	9' 2"	9' 4"	10'6"	11'6"	8' 6"	9' 4"	11'6"
<b>WEIGHT</b>	1830	1860	1880	2000	1960	2020	2040	2220	2260	2060	2180	2400

\*Add 100 lbs. for extendible arm option.

## FLATBED SPECIFICATIONS

<b>HYDRAULIC SYSTEM</b>	Powered by engine driven pump or self-contained battery-powered electric/hydraulic unit
<b>SYSTEM PRESSURE</b>	2450 psi
<b>OIL RESERVOIR CAPACITY</b>	10 Gallons
<b>OIL FILTER</b>	DewEze 720043, WIX 51551 (10 micron)
<b>CYLINDER, LIFT</b>	4.50" x 16.64"
<b>CYLINDER, SQUEEZE</b>	2.00" x 34.00" (400 Series) 2.00" x 39.25" (500 Series & all XRM)
<b>CYLINDER, EXTENDIBLE*</b>	2.00" x 20.0" (left side)
<b>CYLINDER, EXTENDIBLE*</b>	2.50" x 20.0" (right side)

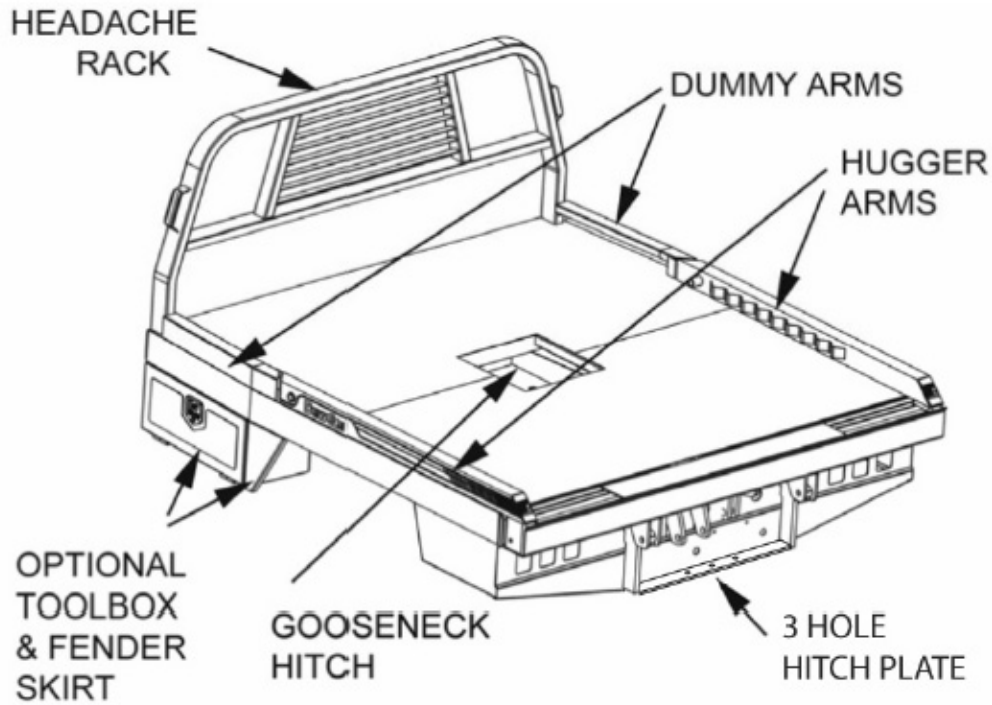
\*Cylinders used for extendible arm are optional.

## BOLT TORQUE SPECIFICATIONS (UNLESS SPECIFIED ELSEWHERE)

<b>BOLT DIAMETER</b>	<b>BOLT TORQUE (ft-lb)</b>
5/16"	19
3/8"	33
5/8"	160
1"	630

**Note:**  
Specifications are for No. 5 bolts with no lubricant.

# Feature Identification



**Dummy Arms** - serve as side rails, along with the hugger arms, for the flatbed.

**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.

**Headache Rack** - protects the rear pickup window. The hydraulic fluid tank and the valve are also located in the bottom, left side of the headache rack.

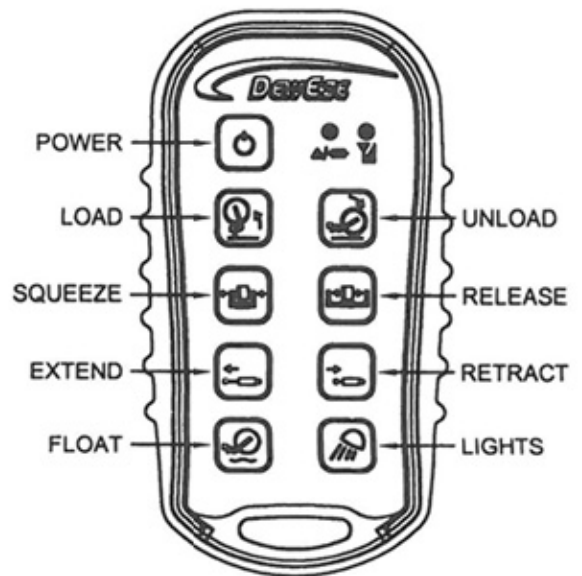
**Gooseneck Hitch** - is located under a door in the middle of the bed.

**Hitch Plate** - has three holes for towing.

**Optional Toolbox & Fender Skirt** - mount under the bed on both sides. The Electric/Hydraulic power unit mounts inside of the toolbox on the left.

**Remote Hand Control** - operates the functions of the flatbed. Uses two AA batteries.

**SAFETY WARNING!**  
Do not exceed chassis manufacturer's recommended towing capacity.



## Safety Guidelines

### Equipment Safety

Safety of the operator is one of the main concerns in 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. Many accidents can be avoided by observing the precautions in this section. To avoid personal injury, study the precautions listed in this manual and follow them.

- Do not attempt to operate this equipment under the influence of drugs or alcohol.
- Review the safety instructions with all users annually.
- This equipment is dangerous to children and persons unfamiliar with its operation. The operator should be a responsible adult familiar with farm machinery and trained in this equipment's operation.
- 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 of how it works.

If you have any questions not answered in this manual or require additional copies, please contact your dealer or DewEze manufacturing.

### General Flatbed Safety



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

- Replace any CAUTION, WARNING, DANGER or instructional 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 carrying capability may exceed the truck's GVRW, especially on a 3/4 ton truck.

### Hydraulic Safety



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

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



# Operating Instructions

## Beginning Operation

- Turn pump switch to the “on” position while engine is idling. (Red light will indicate that pump is on).

**IMPORTANT:** In cold weather, allow the engine to idle for 5-10 minutes with the pump on before operating the arms. This will allow the oil to warm up and flow more freely. Neglecting to do this may cause hydraulic pump failure.

## Loading

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

**IMPORTANT:** When hauling one bale, make sure it is resting on the bed. When hauling two bales make sure the second bale is as far forward as it will go (Fig. 1). Carrying a bale behind the bed, as shown in Fig 2, places excessive stress on the cylinder, linkage, and pins.

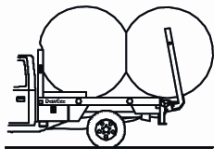


Fig. 1

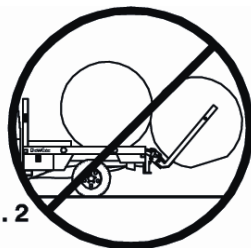


Fig. 2

**NOTE:** Spinners may be necessary to grip the front bale for unloading.

## Unloading

- To unload, do the reverse of the loading operation.

## Unrolling

**NOTE:** Risers and spinners must be installed to unroll bales.

- Position the arms over the bale so the spinner is at the center of the bale.
- Close the arms and pick up the bale.
- To unroll, lower the bale to the ground.
- Turn the pump off and push the FLOAT switch on the hand control.
- Drive forward slowly. Bale will gradually unroll.
- When finished, touch FLOAT or an other function to disengage.

**CAUTION:** Failure to engage FLOAT function while unrolling a bale may damage lift cylinder rod.

## Storing the Arms

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

## Turning the System Off

- Turn the pump off and release pressure in the system by stroking one of the function switches when flatbed is not in use.

**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 hydraulic oil level. Keep level between “add” and “full” on dipstick.
- Check belt tension and idler pulleys on engine clutch pump system.
- Examine hydraulic hoses for cracks or leaks.

### **SAFETY WARNING!**

**Do not check for hydraulic leaks with your hands while the system is operating. Use a piece of wood or cardboard. Hydraulic fluid escaping under pressure can penetrate the skin and may cause death if not treated immediately.**

## Grease

- Grease the locations indicated in the illustration below once per week.

## Hydraulic Pressure

- Hydraulic system pressure should be 2450 psi.
- To check pressure, hook a test gauge to the quick-couplers.

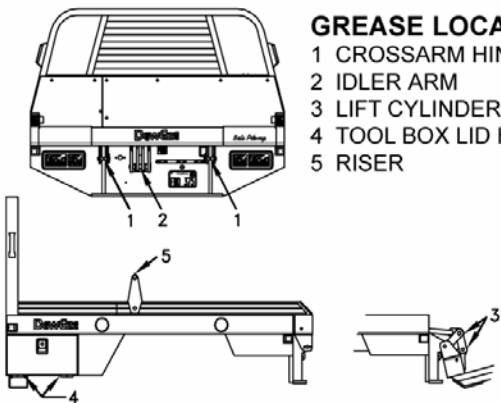
## Hydraulic Oil

- Change hydraulic oil when it is milky in appearance, or annually.
- Change hydraulic oil filter after the first 40 hours of use and then every 250 hours, or annually thereafter. In Cold Weather (below 10° F)
- Fill with hydraulic oil specifically rated for cold weather.
- Do not attach other hydraulic equipment to the bed. The oil will intermix and the cold weather viscosity will be lost.

## Other Maintenance Notes

- If the quick-couplers leak, the o-rings inside 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.
- For easy hookup of the couplers, shut switch “off” and activate control valve switches with the ignition “on”. This will release the pressure in the lines.
- In the off season, run the bed at least twice a month to prevent valve condensation.

- GREASE LOCATIONS**
- 1 CROSSARM HINGE
  - 2 IDLER ARM
  - 3 LIFT CYLINDER ROD END
  - 4 TOOL BOX LID HINGE
  - 5 RISER



## Troubleshooting

Problem	Symptom	Possible Solutions
Hydraulic Pump	No Oil Flow	<ul style="list-style-type: none"> <li>• CHECK OIL LEVEL IN RESERVOIR. If oil level is low, check for leaks in system.</li> <li>• CHECK BELT TENSION. Tighten if needed. Replace belt if necessary.</li> <li>• CHECK FOR SHEARED KEY ON PUMP SHAFT. Replace key.</li> <li>• CLUTCH NOT FUNCTIONING. See clutch section.</li> <li>• INTERNAL PUMP DAMAGE. Have pump repaired or replaced.</li> <li>• CHECK PRESSURE LINE AT PUMP TO SEE IF OIL IS MOVING.</li> <li>• CHECK TO SEE IF SUCTION HOSE COLLAPSES IN SUCTION</li> </ul>
Hydraulic Pump	No Oil Pressure	<ul style="list-style-type: none"> <li>• VALVE NOT FUNCTIONING. Check for disconnected wires at solenoid.</li> <li>• CHECK FOR POSSIBLE LEAKS IN SYSTEM. Repair blown hoses.</li> <li>• CHECK FOR MALFUNCTIONING SWITCH. Replace broken switches.</li> <li>• PRESSURE RELIEF IS BROKEN ALLOWING OIL TO BYPASS SYSTEM. Replace pressure relief.</li> <li>• PRESSURE SEAL ON PUMP IS BROKEN OR WORN. Replace.</li> <li>• BELTS OR CLUTCH MAY BE SLIPPING. Tighten belts.</li> <li>• PRESSURE RELIEF MAY BE SET TOO LOW.</li> </ul> <p><b>CAUTION: PRESSURE EXCEEDING 2,600 PSI CAN DAMAGE THE PUMP.</b></p>
Clutch	Does Not Engage	<ul style="list-style-type: none"> <li>• CHECK FOR BLOWN FUSE. Replace.</li> <li>• <b>CAUTION: FUSE SHOULD NOT EXCEED 30 AMPS</b></li> <li>• CHECK WIRE TO CLUTCH. Insure there are no breaks or shorts.</li> <li>• CHECK FOR BAD SWITCHES IN SYSTEM. Replace.</li> <li>• CHECK FOR BAD MAGNETIC COIL. Use jumper from positive battery terminal to check coil. Replace coil if necessary.</li> </ul>
Belt(s)	Jumps Off Pulley	<ul style="list-style-type: none"> <li>• BELTS TOO LOOSE. Tighten belts.</li> <li>• CHECK FOR EXCESSIVE BELT WEAR. Replace worn belts.</li> <li>• CHECK FOR LOOSE PUMP BRACKET. Tighten loose bolts. Replace broken bolts.</li> <li>• CHECK ALIGNMENT OF CLUTCH AND CRANKSHAFT PULLEYS. Re-align pulleys.</li> <li>• CHECK CRANKSHAFT PULLEY FOR LOOSE OR BROKEN BOLTS. Tighten loose bolts. Replace broken bolts.</li> <li>• CHECK ALIGNMENT OF IDLER PULLEY AND THE CONDITION OF IDLER PULLEY BEARINGS. Re-align idler pulley. Replace worn or broken bearings.</li> <li>• MAKE SURE THAT BELTS ARE NOT CRACKED OR WORN.</li> </ul>





**400 & 500  
Series Flatbed**

**Parts  
Section**



# Table of Contents

## PARTS SECTION

### Standard Parts

Flatbed Standard Parts.....	1.1
	1.1.1
Flatbed XRM Parts.....	1.2
	1.2.1

### Hydraulics

Hydraulic Assembly.....	2.1
Hydraulic Assembly Valve and Filter.....	2.2
Gen 2 Valve-Service Parts.....	2.3
Hydraulic Assembly Reservoir.....	2.4
	2.4.1
	2.4.2
Hose Change (after change).....	2.5
Hose Change (before change).....	2.6
400 Series with Large and Small FPS Valves..	2.7
XRM Hydraulics.....	2.8
	2.8.1
Hydraulic Assembly Lift & Squeeze.....	2.9

### Lights and Decals

400/500 Series Lights.....	3.1
Decals.....	3.2
	3.2.1

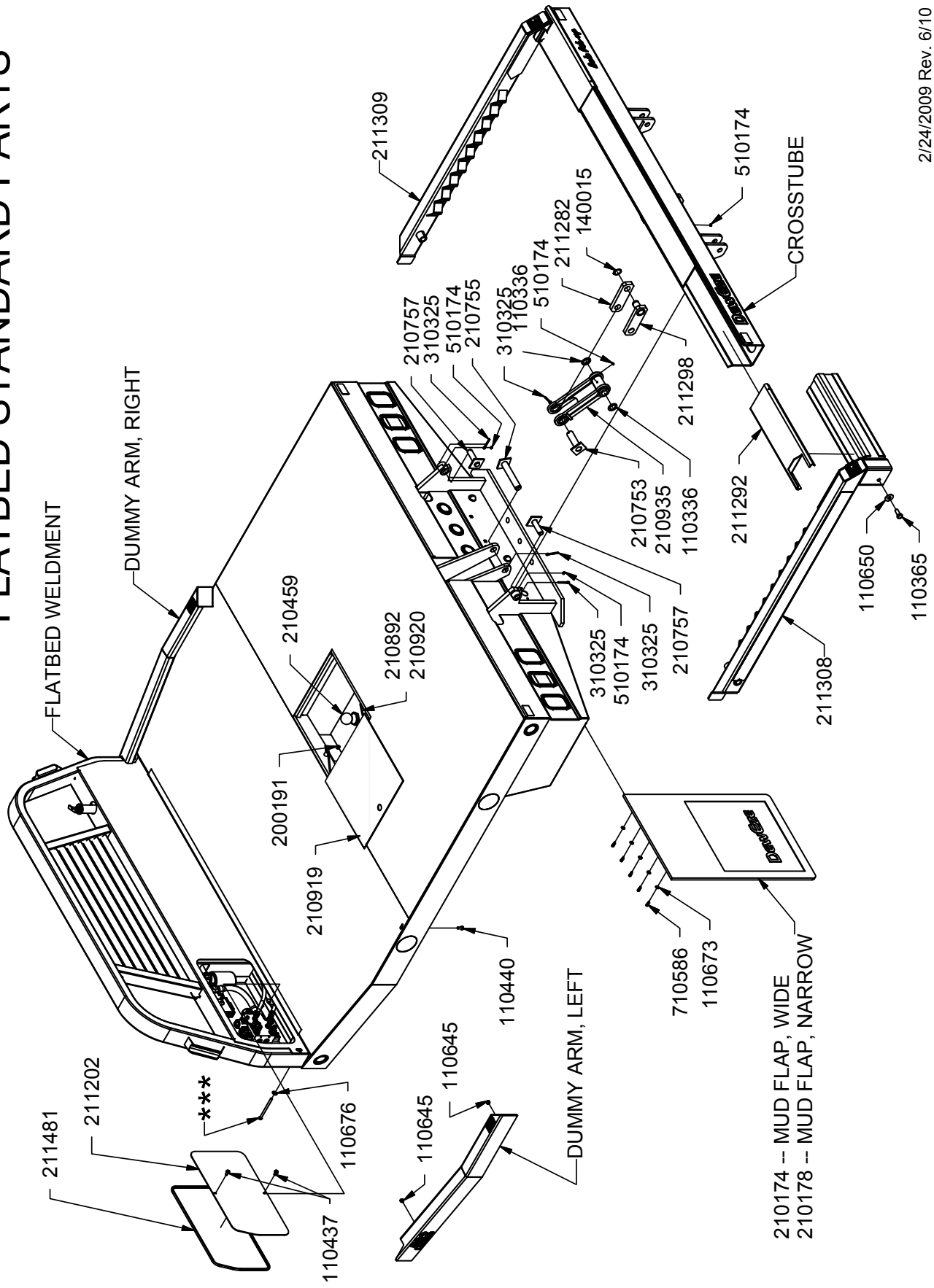
### Accessories

Flatbed Accessories.....	4.1
30" Toolbox .....	4.2
Cargo Lights & Across the Bed Toolbox.....	4.3
Flatbed Accessories Spinners & Risers.....	4.4
Other Accessories.....	4.5
Switch, Clutch Control Assy.....	4.6
Front Skirt Toolbox Replacement.....	4.7

### Appendices

I	
Remote Control.....	5.1
2-Bank Wiring - Kar-Tech Remote.....	5.2
3rd Bank Wiring - Kar-Tech Remote.....	5.3
II	
E/H Power Unit.....	5.4
E/H Power Kit.....	5.5
	5.5.1
E/H Power Kit w/ Remote.....	5.6
	5.6.1
30" Toolbox Modification.....	5.7
XRM Fitting Update.....	5.8

# FLATBED STANDARD PARTS



2/24/2009 Rev. 6/10



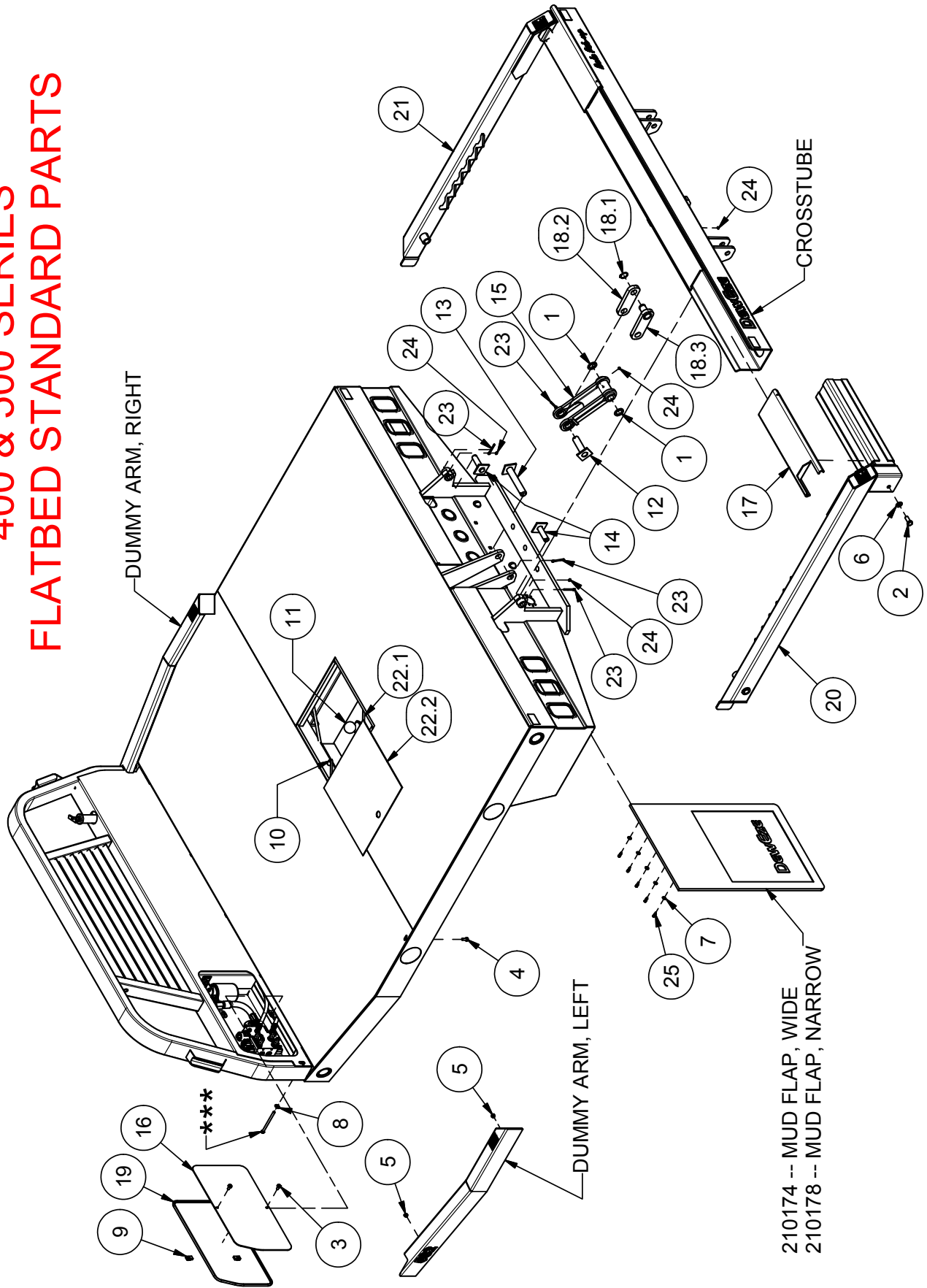
# FLATBED STANDARD PARTS

Parts List		
PART #	QUANTITY	DESCRIPTION
110336	2	WASHER, 1-1/4" FLAT MACHINE 10GA
110365	2	BOLT, 5/8-18 X 1.5 GR 5
110437	2	BOLT, 3/8-16 X 0.75, WIZ FLANGE
110440	2	BOLT, 3/8-16 X 1, WIZ FLANGE
110645	2	NUT, 3/8-16 WIZ FLANGE
110650	2	WASHER, 5/8" FLAT STANDARD
110673	10	WASHER, 1/4" FLAT STANDARD
110676	2	WASHER, 3/8" FLAT STANDARD
200191	2	BUSHING, .5 X .375 X .500 W/FLNG
210459	1	HITCH BALL AND NUT
210753	1	PIN ASSY, LIFT CYLINDER ROD END
210755	1	PIN ASSY, IDLER ARM
210757	2	PIN ASSY, CROSSARM PIVOT
210892	1	HINGE ROD / RECESSED WELL
210919	1	LID / RECESSED WELL
210920	2	HINGE CLIP
210935	1	IDLER ARM, MACHINE DWG.
211202	1	VALVE COVER
211292	2	SHIELD, CROSSTUBE
211297	---	PUSH ARM KIT
211298	1	PUSH ARM WELDMENT
140015	1	SNAP RING
211282	1	PUSH ARM
211481	1	EDGE TRIM
310325	4	COTTER PIN, 1/4 X 2
510174	4	GREASE ZERK, 1/4-28 ST
710586	10	SCREW, 1/4 X 1 TEK SELF-TAP

\*\*\* 400 SERIES  
 2ea 110533 -- BOLT, 3/8-16 X 5.0  
 500 SERIES  
 2ea 110542 -- BOLT, 3/8-16 X 5.5

STANDARD	FLATBED WELDMENT		CROSSTUBE		DUMMY ARM	
	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
470	211230	211311	211313	211312		
470W	211470	211310	211313	211312		
475	211232	211311	211315	211314		
478	211233	211310	211319	211318		
477	211231	211311	211489	211487		
480	211234	211310	211321	211320		
482	211235	211310	211323	211322		
485	211236	211310	211325	211324		
487	211237	211310	211327	211326		
578	215013	215026	215028	215027		
582	215014	215026	215030	215029		
587	215016	215026	215034	215033		

# 400 & 500 SERIES FLATBED STANDARD PARTS



# 400 & 500 SERIES FLATBED STANDARD PARTS

STANDARD	CROSSTUBE	DUMMY ARM	
		LEFT	RIGHT
470	211311	211897	211898
470W	211310	211921	211922
475	211311	211903	211904
477	211311	211909	211910
479	211311	211915	211916
482	211310	211923	211924
484	211310	211929	211930
487	211310	211935	211936
488	211310	911941	211942
578	215026	211947	211948
582	215026	211953	211954
587	215026	211959	211960

Parts List			
ITEM	PART #	QUANTITY	DESCRIPTION
1	110336	2	WASHER, 1-1/4 FLAT MACHINE 10GA
2	110365	2	BOLT, 5/8-18 X 1.5 GR 5
3	110437	2	BOLT, 3/8-16 X 0.75, WIZ FLANGE
4	110440	2	BOLT, 3/8-16 X 1, WIZ FLANGE
5	110645	2	NUT, 3/8-16 WIZ FLANGE
6	110663	2	WASHER, 5/8" FLAT SAE
7	110673	10	WASHER, 1/4" FLAT STANDARD
8	110676	2	WASHER, 3/8" FLAT STANDARD
9	110804	2	NUT, 3/8-16 U-TYPE .75L
10	200191	2	BUSHING, .5 X .375 X .500 W/FLNG
11	210459	1	HITCH BALL AND NUT
12	210753	1	PIN ASSY, LIFT CYLINDER ROD END
13	210755	1	PIN ASSY, IDLER ARM
14	210757	2	PIN ASSY, CROSSARM PIVOT
15	210935	1	IDLER ARM, MACHINE DWG.
16	211202	1	VALVE COVER
17	211292	2	SHIELD, CROSSARM
18	211297	---	PUSH ARM KIT
18.1	140015	1	SNAP RING
18.2	211282	1	PUSH ARM
18.3	211298	1	PUSH ARM WELDMENT
19	211481	1	EDGE TRIM, VALVE COVER
20	211965	1	SQUEEZE ARM LEFT, GRAY
21	211966	1	SQUEEZE ARM RIGHT, GRAY
22	215069	--	LID ASSEMBLY
22.1	210892	1	HINGE ROD, LID RECESSED WELL
22.2	210919	1	LID, RECESSED WELL
23	310325	4	COTTER PIN, 1/4 X 2
24	510174	4	GREASE ZERK, 1/4-28 ST
25	710586	10	SCREW, 1/4 X 1 TEK SELF-TAP

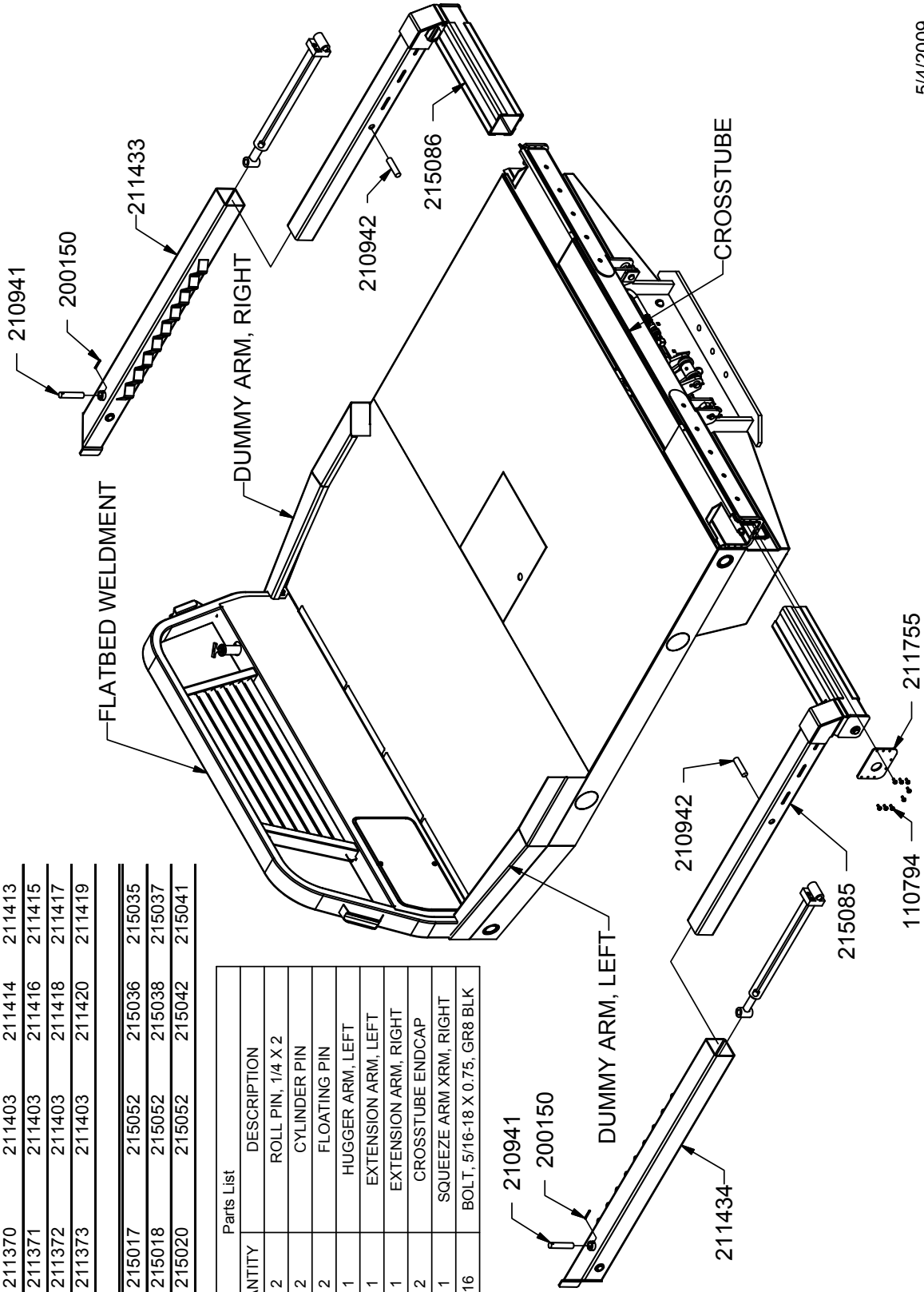
\*\*\* 400 SERIES  
 2ea 110533 -- BOLT, 3/8-16 X 5.0  
 500 SERIES  
 2ea 110542 -- BOLT, 3/8-16 X 5.5



# FLATBED XRM PARTS

XRM	FLATBED WELDMENT		CROSSTUBE		DUMMY ARM	
	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
470	211366	211402	211406	211405		
475	211367	211402	211408	211407		
478	211369	211403	211412	211411		
477	211368	211402	211410	211409		
480	211370	211403	211414	211413		
482	211371	211403	211416	211415		
485	211372	211403	211418	211417		
487	211373	211403	211420	211419		
578	215017	215052	215036	215035		
582	215018	215052	215038	215037		
587	215020	215052	215042	215041		

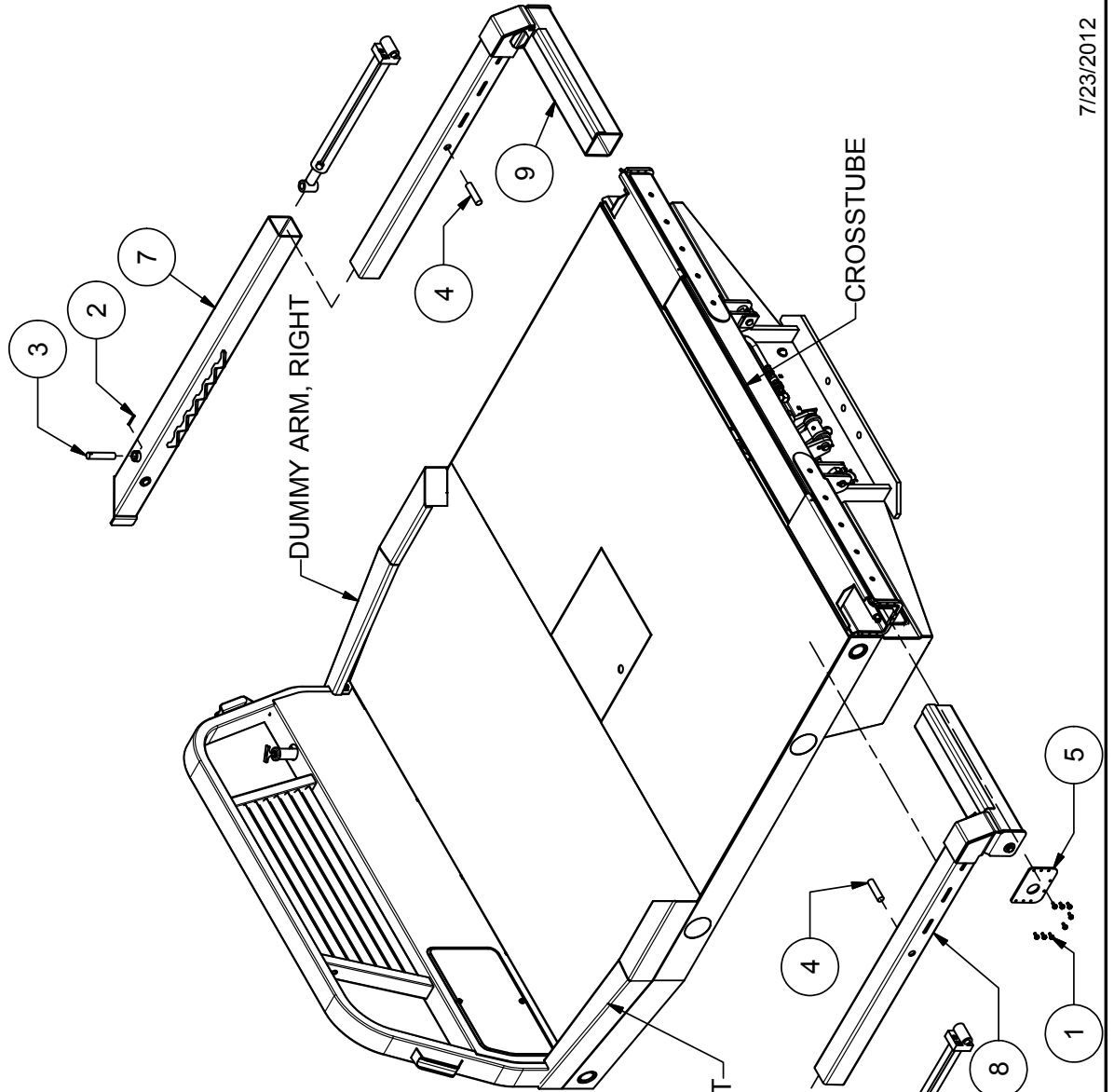
Parts List	
PART #	DESCRIPTION
200150	ROLL PIN, 1/4 X 2
210941	CYLINDER PIN
210942	FLOATING PIN
211355	HUGGER ARM, LEFT
211434	EXTENSION ARM, LEFT
211433	EXTENSION ARM, RIGHT
211755	CROSSTUBE ENDCAP
215086	SQUEEZE ARM XRM, RIGHT
110794	BOLT, 5/16-18 X 0.75, GR8 BLK



5/4/2009

# 400 & 500 SERIES FLATBED XRM PARTS

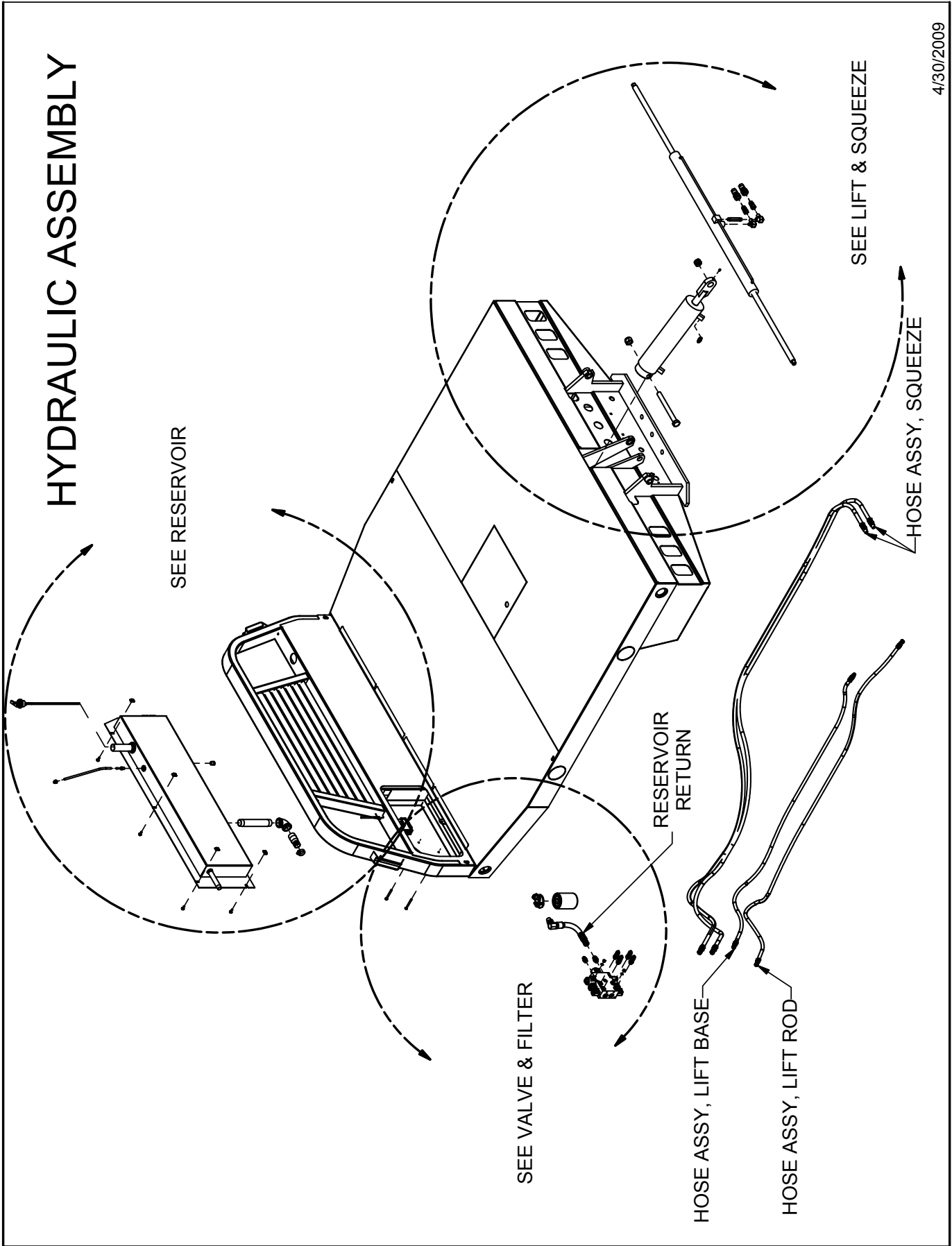
7/23/2012



XRM	DUMMY ARM	
	CROSSTUBE	RIGHT
470	211402	211902
475	211402	211908
477	211402	211914
479	211402	211920
482	211403	211928
487	211403	211940
488	211403	211946
578	215052	211952
582	215052	211958
587	215052	211964

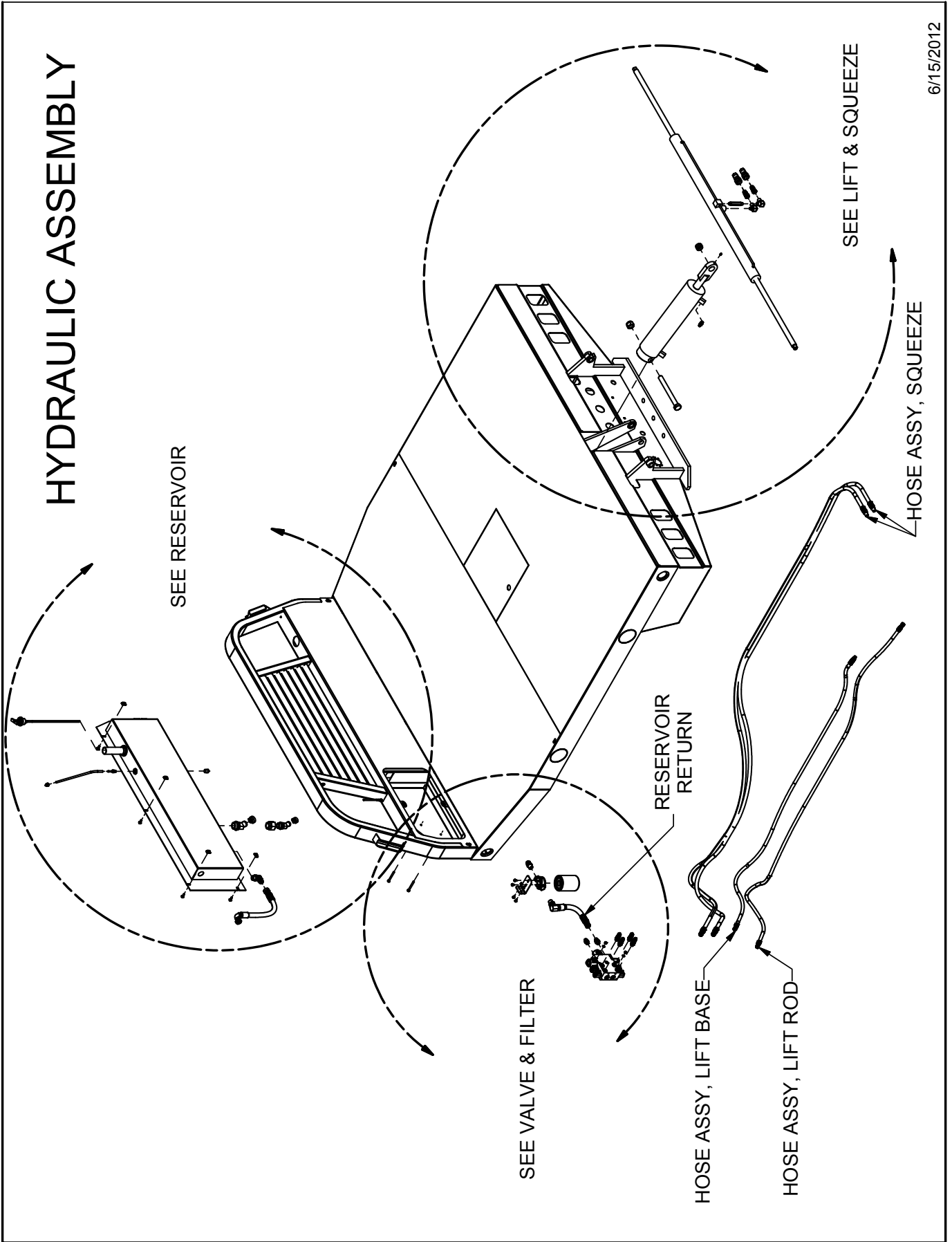
  

Parts List		
ITEM	PART #	DESCRIPTION
1	110794	16 BOLT, 5/16-18 X 0.75, GR8 BLK
2	200150	2 ROLL PIN, 1/4 X 2
3	210941	2 CYLINDER PIN
4	210942	2 FLOATING PIN
5	211755	2 CROSSTUBE ENDCAP
6	211967	1 EXTENSION ARM, LEFT
7	211968	1 EXTENSION ARM, RIGHT
8	215085	1 SQUEEZE ARM XRM, LEFT
9	215086	1 SQUEEZE ARM XRM, RIGHT



4/30/2009

# HYDRAULIC ASSEMBLY



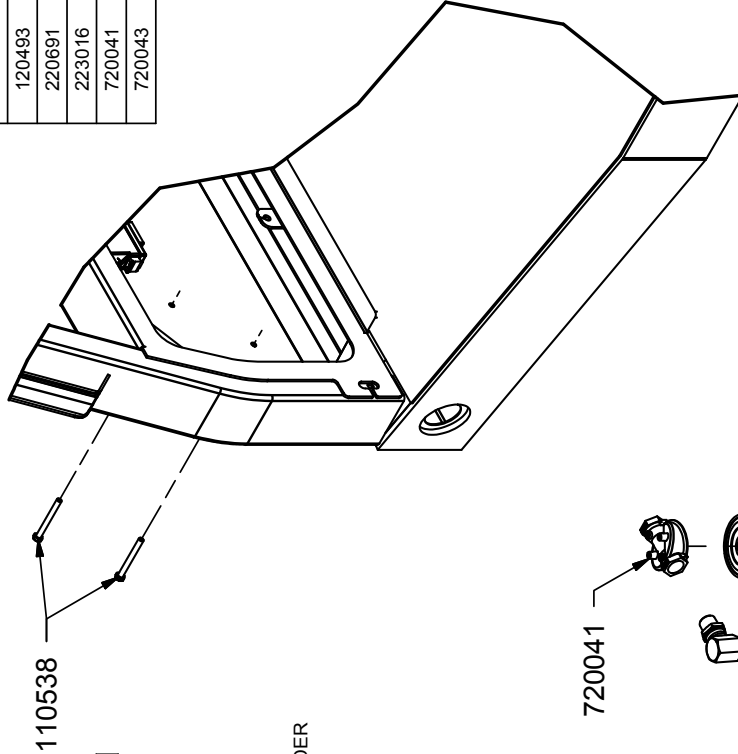
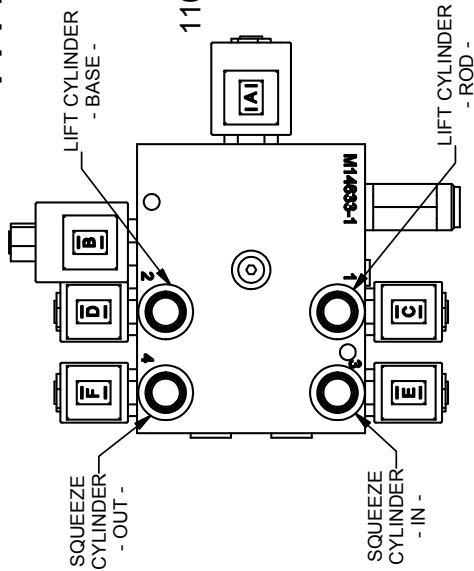
6/15/2012

# HYDRAULIC ASSEMBLY VALVE & FILTER

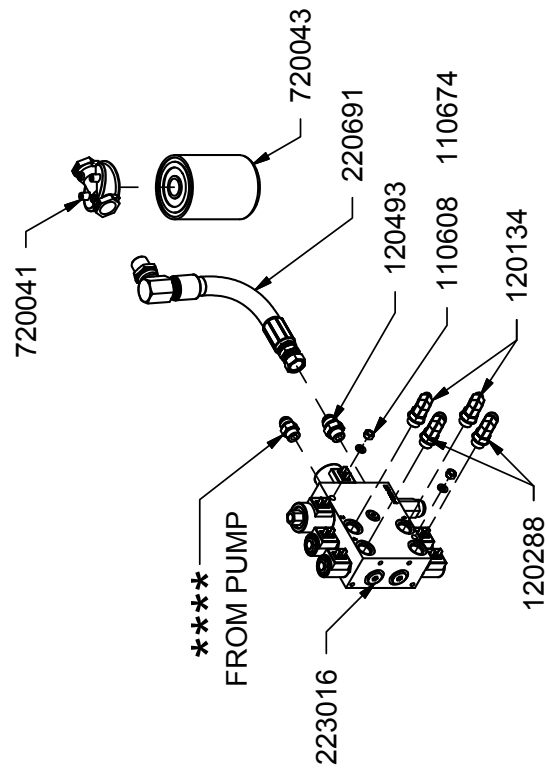
RETURN HOSE CHANGED 2009

Parts List

PART #	QTY	DESCRIPTION
110538	2	BOLT, 5/16-18 X 3.0
110608	2	NUT, 5/16-18
110674	2	WASHER, 5/16" LOCK
120134	2	ADAPTER, 6MJ-8MB90
120288	2	ADAPTER, 8MJ-8MB90
120493	1	ADAPTER, 10MJ-8MB
220691	1	RESERVOIR RETURN
223016	1	VALVE, FLATBED MONOBLOCK
720041	1	FILTER HEAD
720043	1	FILTER, 10 MICRON



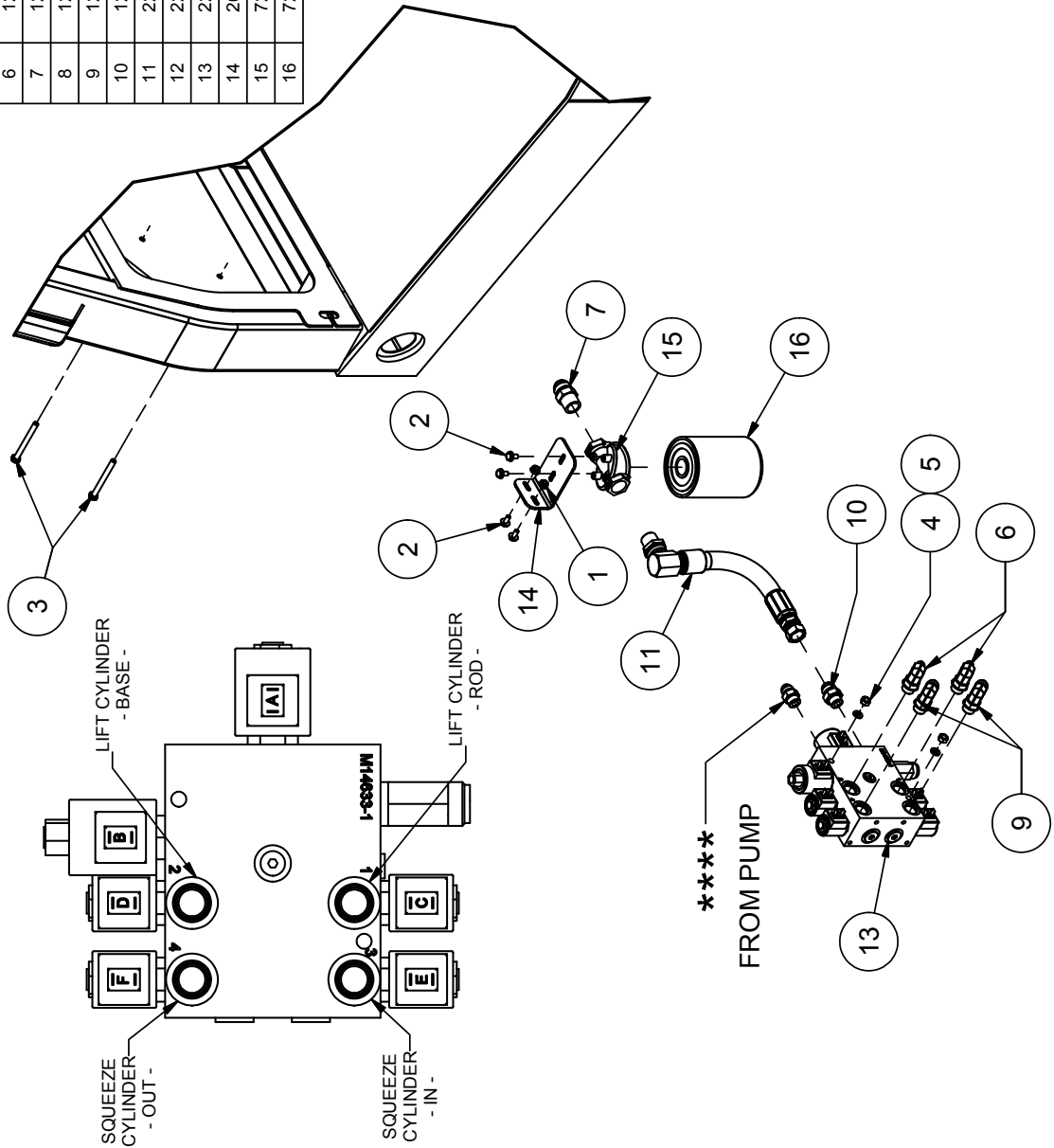
\*\*\*\*  
5, 7 & 9 GALLON SYSTEM  
120277 -- ADAPTER 8MJ-8MB  
  
12 & 17 GALLON SYSTEM  
120174 -- ADAPTER, 8MB-12FPX





# HYDRAULIC ASSEMBLY VALVE & FILTER

RETURN HOSE CHANGED 2009  
FILTER BRACKET LATE 2012



Parts List

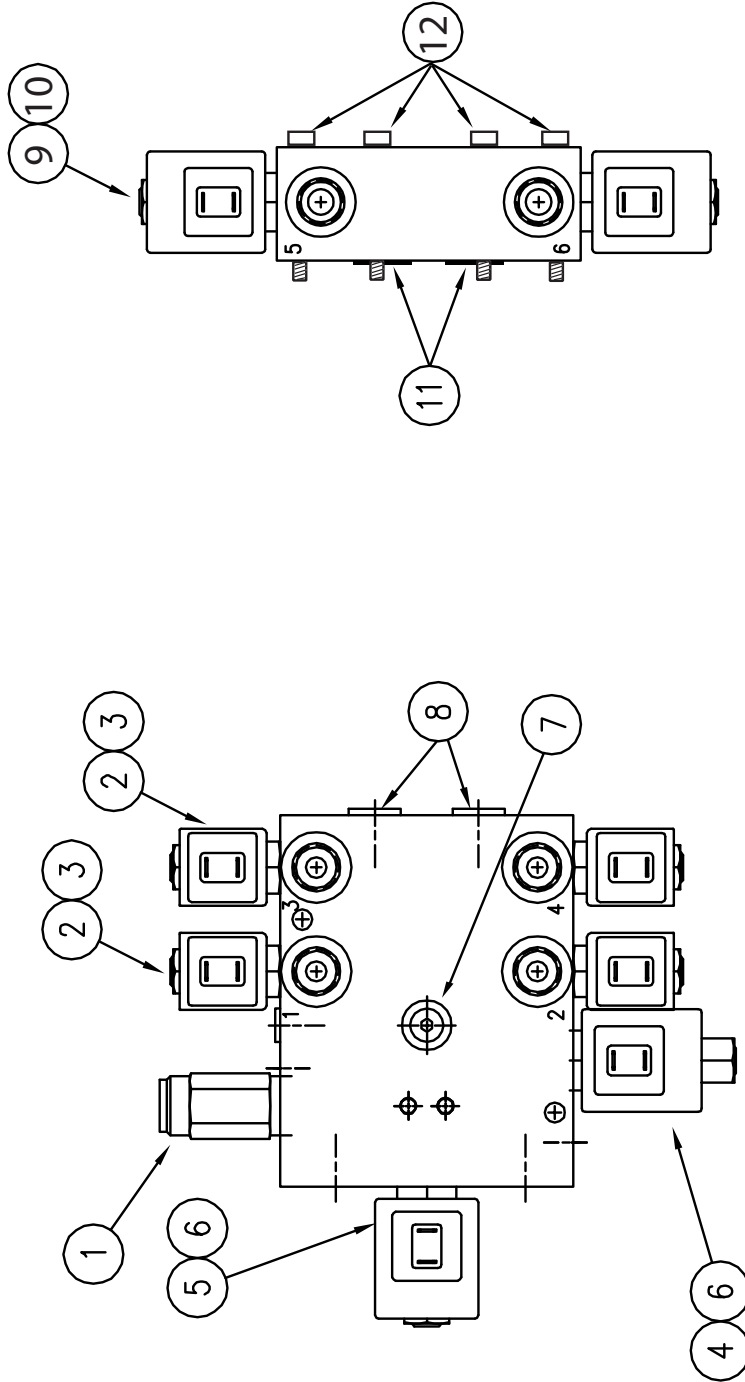
ITEM	PART #	QTY	DESCRIPTION
1	110290	2	NUT, 1/4-20 WIZ FLANGE
2	110434	4	BOLT, 1/4-20 X 0.5, WIZ FLANGE
3	110538	2	BOLT, 5/16-18 X 3.0
4	110608	2	NUT, 5/16-18
5	110674	2	WASHER, 5/16" LOCK
6	120134	2	ADAPTER, 6MJ-8MB90
7	120244	1	ADAPTER, 12MJ-12MP
8	120257	1	ADAPTER, 12MJ-12MB90
9	120288	2	ADAPTER, 8MJ-8MB90
10	120493	1	ADAPTER, 10MJ-8MB
11	220691	1	RESERVOIR RETURN
12	220700	1	FILTER TO RESERVOIR HOSE
13	223016	1	VALVE, FLATBED MONOBLOCK
14	260265	1	MOUNTING BRACKET, FILTER
15	720041	1	FILTER HEAD
16	720043	1	FILTER, 10 MICRON

\*\*\*\*

5, 7 & 9 GALLON SYSTEM  
120277 -- ADAPTER 8MJ-8MB

12 & 17 GALLON SYSTEM  
120174 -- ADAPTER, 8MB-12FPX

## GEN 2 VALVE - SERVICE PARTS



ITEM NO	DESCRIPTION	PART NO.	QUAN
1	VALVE, PRESSURE RELIEF	222004	1
2	CARTRIDGE, #8 VALVE, W/O COIL	720015	4
3	COIL, #8 VALVE, 12 VOLT	820143	4
4	SPOOL, #10 VALVE	820232	1
5	VALVE, DIRECTIONAL, 4-WAY	222002	1
6	COIL, #10 VALVE, 12 VOLT	820229	2
7	O-RING, ADAPTER #4 7/16-20	120062	2
8	O-RING, ADAPTER #8 3/4-16	720164	2
	<b>VALVE, MONOBLOCK, COMPLETE</b>	<b>223016</b>	<b>1</b>

### VALVE FOR ADDITIONAL THIRD BANK

ITEM NO	DESCRIPTION	PART NO.	QUAN
9	VALVE, POPPET FOR 223017	222003	2
10	COIL, #10 VALVE, 12 VOLT	820229	2
11	O-RING, -219, 90 DURO	120376	2
12	BOLT, 5/16-18 X 2 SHCS	110168	4
	<b>VALVE, 3RD BANK ADD ON (223016)</b>	<b>223017</b>	<b>1</b>

# HYDRAULIC ASSEMBLY RESERVOIR

**IMPORTANT:**

The hydraulic reservoir has an O-ring fitting in the bottom where the suction line is connected. Be sure to use the correct adapter (120015) before attaching the 6" nipple.

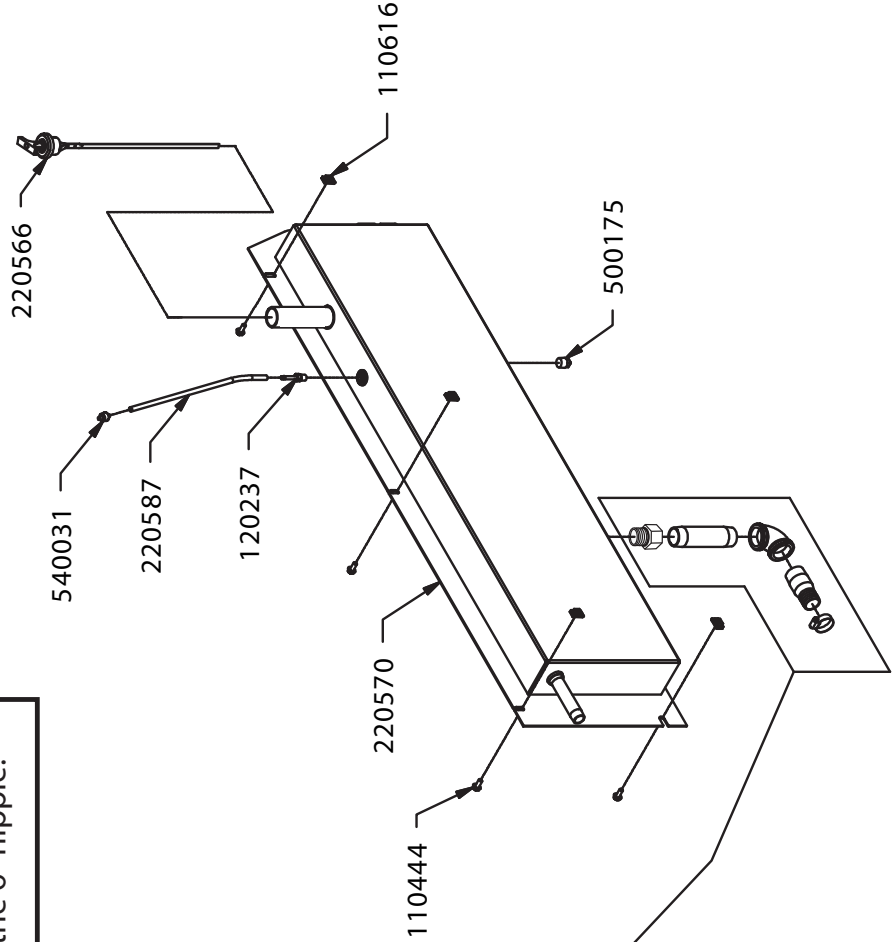
PART #	QTY	DESCRIPTION
5, 7 & 9 GALLON SYSTEM		
120015	1	ADAPTER, 20MB-20FP
200083	1	FITTING, NIPPLE, 1-1/4 X 6
220107	1	FITTING, REDUCER, 1-1/4 - 1.0 ELL
720075	1	HOSE BARB, 1
720107	1	HOSE CLAMP, #20
12 & 17 GALLON SYSTEM		
PART #	QTY	DESCRIPTION
120015	1	ADAPTER, 20MB-20FP
200083	1	FITTING, NIPPLE, 1-1/4 X 6
720158	1	FITTING, ELL 1-1/4
220217	1	HOSE BARB, 1-1/4
511002	1	HOSE CLAMP, #24
2003 DODGE DUALLY, 5, 7 & 9		
PART #	QTY	DESCRIPTION
120015	1	ADAPTER, 20MB-20FP
720070	1	FITTING, REDUCER, 1-1/4 - 1.0
720075	1	HOSE BARB, 1
720107	1	HOSE CLAMP, #20
2003 DODGE DUALLY, 12 & 17		
PART #	QTY	DESCRIPTION
120015	1	ADAPTER, 20MB-20FP
220217	1	HOSE BARB, 1-1/4
511002	1	HOSE CLAMP, #24

**RUNNING CHANGE**

The above fittings were phased out of usage at the beginning of the 2010 model year. See following page for new fittings.

Parts List

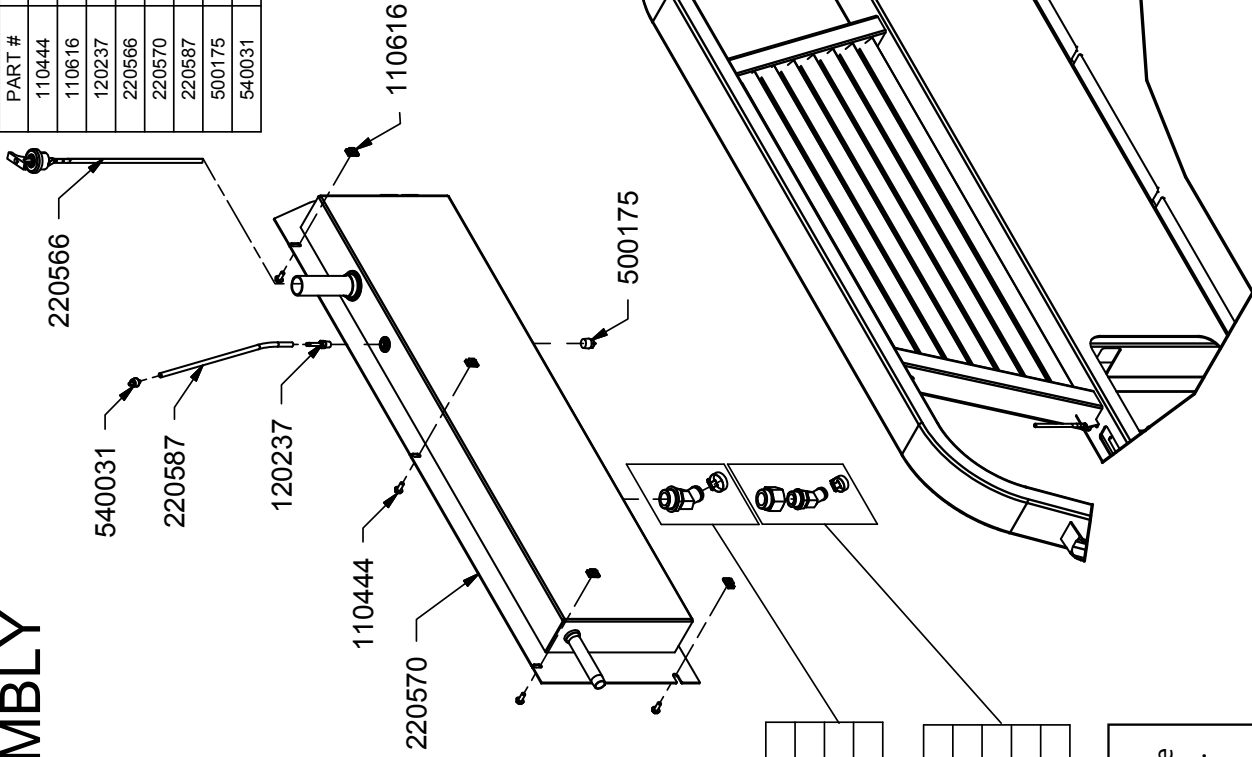
PART #	QUANTITY	DESCRIPTION
110444	4	BOLT, 5/16-18 X 0.75, WIZ FLANGE
110616	4	NUT, 5/16", J-TYPE, CAGE, .5C
120237	1	ADAPTER, 4BH-4MP
220566	1	DIP STICK
220570	1	RESERVOIR WELDMENT
220587	1	VENT HOSE
500175	1	FITTING, PLUG 1/2" PIPE
540031	1	FUEL FILTER



# HYDRAULIC ASSEMBLY RESERVOIR

Parts List

PART #	QTY	DESCRIPTION
110444	4	BOLT, 5/16-18 X 0.75, WIZ FLANGE
110616	4	NUT, 5/16", J-TYPE, CAGE, .5C
120237	1	ADAPTER, 4BH-4MP
220566	1	DIP STICK
220570	1	RESERVOIR WELDMENT
220587	1	VENT HOSE
500175	1	FITTING, PLUG 1/2" PIPE
540031	1	FUEL FILTER



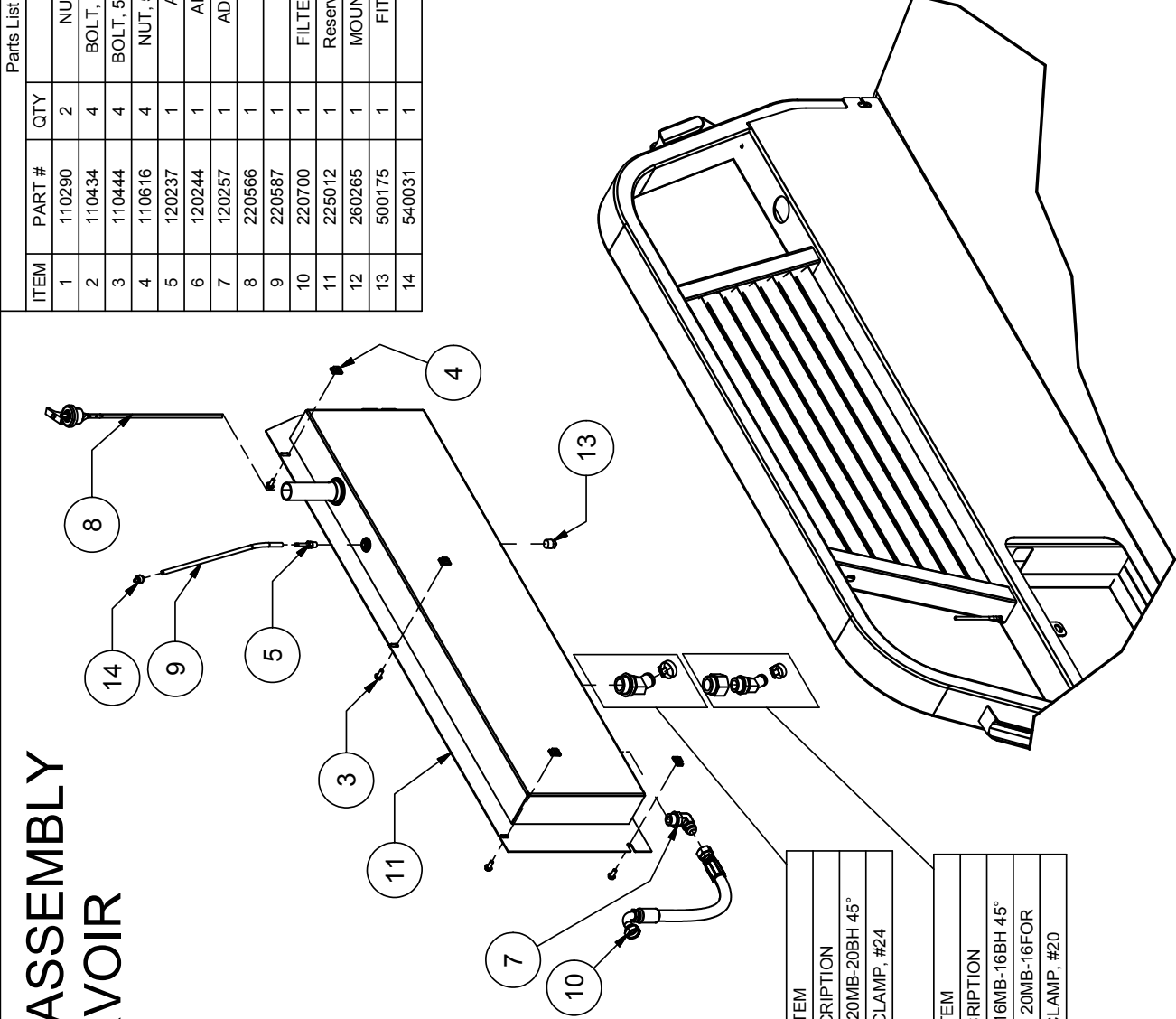
12 & 17 GALLON SYSTEM	
PART #	DESCRIPTION
120189	ADAPTER, 20MB-20BH 45°
511002	HOSE CLAMP, #24

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

**RUNNING CHANGE**  
The above fittings were phased into usage at the beginning of the 2010 model year. See previous page for old fittings.

11/25/2009

# 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

# HOSE CHART

## 400 & 500 SERIES WITH GENERATION 2 VALVES

FLATBED SERIES	SQUEEZE HOSES		LIFT HOSES		RESERVOIR RETURN 3/4 SUCTION	HYDRAULIC HOSE KIT #
	IN (BLUE)	OUT (ORANGE)	6M3K - 8MP / 8FJX BASE (BROWN)	6M3K - 6FJX / 6FJX ROD (GREEN)		
<b>470</b>	220610 (129in)	220610 (129in)	220611 (65in)	220646 (84in)	220422 (26.75in)	<b>223024</b>
<b>470W</b>	220610 (129in)	220610 (129in)	220611 (65in)	220646 (84in)	220422 (26.75in)	<b>223024</b>
<b>475</b>	220613 (152in)	220613 (152in)	220614 (88in)	220642 (107in)	220422 (26.75in)	<b>223018</b>
<b>478</b>	220613 (152in)	220613 (152in)	220614 (88in)	220642 (107in)	220422 (26.75in)	<b>223018</b>
<b>477</b>	220616 (164in)	220616 (164in)	220617 (100in)	220643 (119in)	220422 (26.75in)	<b>223019</b>
<b>480</b>	220616 (164in)	220616 (164in)	220617 (100in)	220643 (119in)	220422 (26.75in)	<b>223019</b>
<b>482</b>	220616 (164in)	220616 (164in)	220617 (100in)	220643 (119in)	220422 (26.75in)	<b>223019</b>
<b>485</b>	220622 (182in)	220622 (182in)	220623 (118in)	220644 (137in)	220422 (26.75in)	<b>223020</b>
<b>487</b>	220622 (182in)	220622 (182in)	220623 (118in)	220644 (137in)	220422 (26.75in)	<b>223020</b>
<b>578</b>	220613 (152in)	220613 (152in)	220614 (88in)	220642 (107in)	220422 (26.75in)	<b>223018</b>
<b>582</b>	220616 (164in)	220616 (164in)	220617 (100in)	220643 (119in)	220422 (26.75in)	<b>223019</b>
<b>587</b>	220622 (182in)	220622 (182in)	220623 (118in)	220644 (137in)	220422 (26.75in)	<b>223020</b>

# HOSE CHART

## RETURN HOSE CHANGED 2009

### 400 & 500 SERIES WITH GENERATION 2 VALVES

FLATBED SERIES	SQUEEZE HOSES		LIFT HOSES		RESERVOIR RETURN 3/4 SUCTION	HYDRAULIC HOSE KIT #
	8M3K - 8MP / 8FJX IN (BLUE)	OUT (ORANGE)	6M3K - 6MB / 6FJX BASE (BROWN)	6M3K - 6FJX / 6FJX ROD (GREEN)		
<b>470</b>	220610 (129in)	220610 (129in)	220611 (65in)	220646 (84in)	220691 (12.25in)	<b>223024</b>
<b>470W</b>	220610 (129in)	220610 (129in)	220611 (65in)	220646 (84in)	220691 (12.25in)	<b>223024</b>
<b>475</b>	220613 (152in)	220613 (152in)	220614 (88in)	220642 (107in)	220691 (12.25in)	<b>223018</b>
<b>478</b>	220613 (152in)	220613 (152in)	220614 (88in)	220642 (107in)	220691 (12.25in)	<b>223018</b>
<b>477</b>	220616 (164in)	220616 (164in)	220617 (100in)	220643 (119in)	220691 (12.25in)	<b>223019</b>
<b>480</b>	220616 (164in)	220616 (164in)	220617 (100in)	220643 (119in)	220691 (12.25in)	<b>223019</b>
<b>482</b>	220616 (164in)	220616 (164in)	220617 (100in)	220643 (119in)	220691 (12.25in)	<b>223019</b>
<b>485</b>	220622 (182in)	220622 (182in)	220623 (118in)	220644 (137in)	220691 (12.25in)	<b>223020</b>
<b>487</b>	220622 (182in)	220622 (182in)	220623 (118in)	220644 (137in)	220691 (12.25in)	<b>223020</b>
<b>578</b>	220613 (152in)	220613 (152in)	220614 (88in)	220642 (107in)	220691 (12.25in)	<b>223018</b>
<b>582</b>	220616 (164in)	220616 (164in)	220617 (100in)	220643 (119in)	220691 (12.25in)	<b>223019</b>
<b>587</b>	220622 (182in)	220622 (182in)	220623 (118in)	220644 (137in)	220691 (12.25in)	<b>223020</b>

## 400 SERIES WITH LARGE AND SMALL FPS VALVES

FLATBED SERIES	SQUEEZE HOSES		LIFT HOSES		RESERVOIR RETURN		HYDRAULIC HOSE KIT #
	IN (BLUE)	OUT (ORANGE)	BASE (BROWN)	6M3K - 6MB / 6FJX ROD (GREEN)	8M3K - 8MP / 8FJX	8M3K - 8MP / 8FJX	
<b>470</b>	220610 (129in)	220610 (129in)	220611 (65in)	220612 (84in)	220422 (26.75in)	220422 (26.75in)	<b>223002</b>
<b>470W</b>	220610 (129in)	220610 (129in)	220611 (65in)	220612 (84in)	220422 (26.75in)	220422 (26.75in)	<b>223002</b>
<b>475</b>	220613 (152in)	220613 (152in)	220614 (88in)	220615 (107in)	220422 (26.75in)	220422 (26.75in)	<b>223003</b>
<b>478</b>	220613 (152in)	220613 (152in)	220614 (88in)	220615 (107in)	220422 (26.75in)	220422 (26.75in)	<b>223003</b>
<b>477</b>	220616 (164in)	220616 (164in)	220617 (100in)	220618 (119in)	220422 (26.75in)	220422 (26.75in)	<b>223004</b>
<b>480</b>	220616 (164in)	220616 (164in)	220617 (100in)	220618 (119in)	220422 (26.75in)	220422 (26.75in)	<b>223004</b>
<b>482</b>	220616 (164in)	220616 (164in)	220617 (100in)	220618 (119in)	220422 (26.75in)	220422 (26.75in)	<b>223004</b>
<b>485</b>	220619 (176in)	220619 (176in)	220620 (112in)	220621 (131in)	220422 (26.75in)	220422 (26.75in)	<b>223005</b>
<b>487</b>	220622 (182in)	220622 (182in)	220623 (118in)	220624 (137in)	220422 (26.75in)	220422 (26.75in)	<b>223006</b>

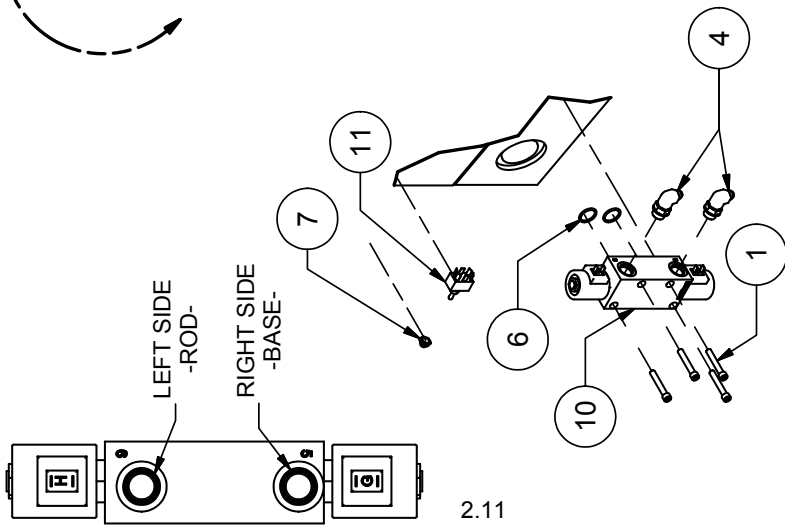
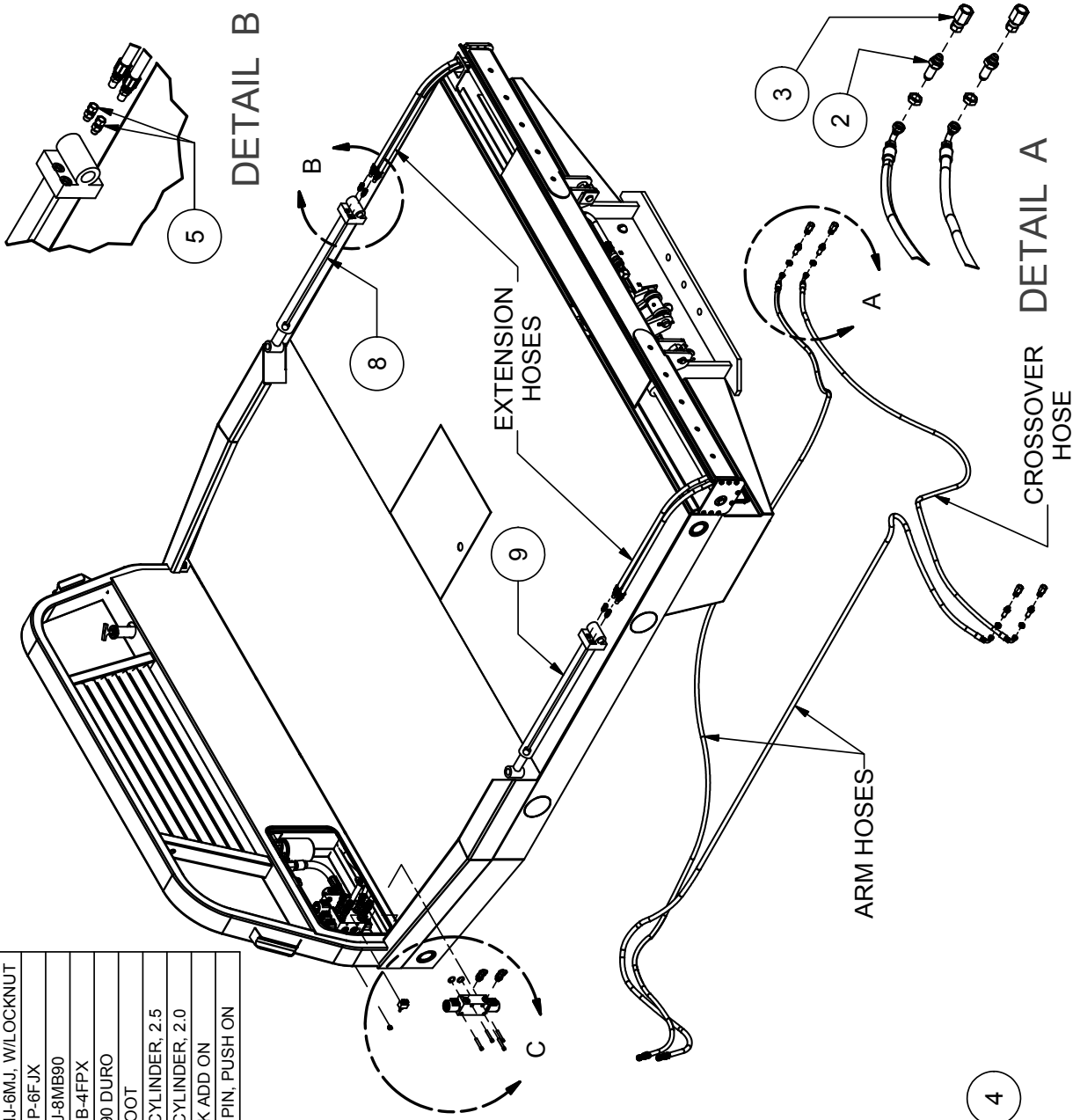


# XRM HYDRAULICS

Parts List	
ITEM	PART # QTY DESCRIPTION
1	110168 4 BOLT, 5/16-18 X 2.0 SHCS
2	120102 4 ADAPTER, BULKHEAD, 6MJ-6MJ, W/LOCKNUT
3	120123 4 ADAPTER, 6FP-6FJX
4	120134 2 ADAPTER, 6MJ-8MB90
5	120186 4 ADAPTER, 4MB-4FPX
6	120376 2 O-RING, -119, 90 DURO
7	132035 1 SWITCH BOOT
8	220455 1 EXTENDABLE ARM CYLINDER, 2.5
9	220456 1 EXTENDABLE ARM CYLINDER, 2.0
10	223017 1 VALVE, 3rd BANK ADD ON
11	232086 1 SWITCH, DPDT, M, 6 PIN, PUSH ON

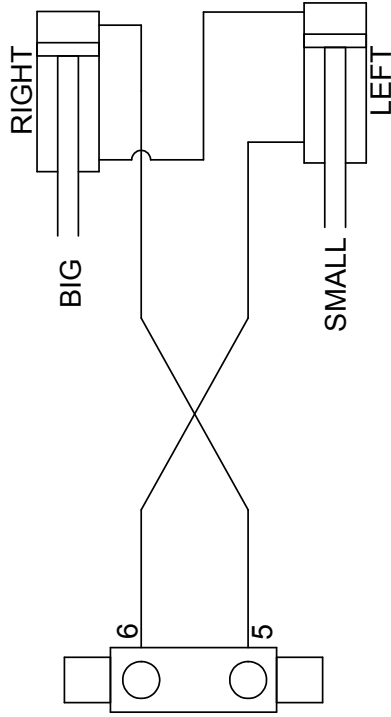
### SEAL KITS

- 2.5 CYLINDER 220532
- 2.0 CYLINDER 220533



3/2/2011

# XRM HYDRAULICS



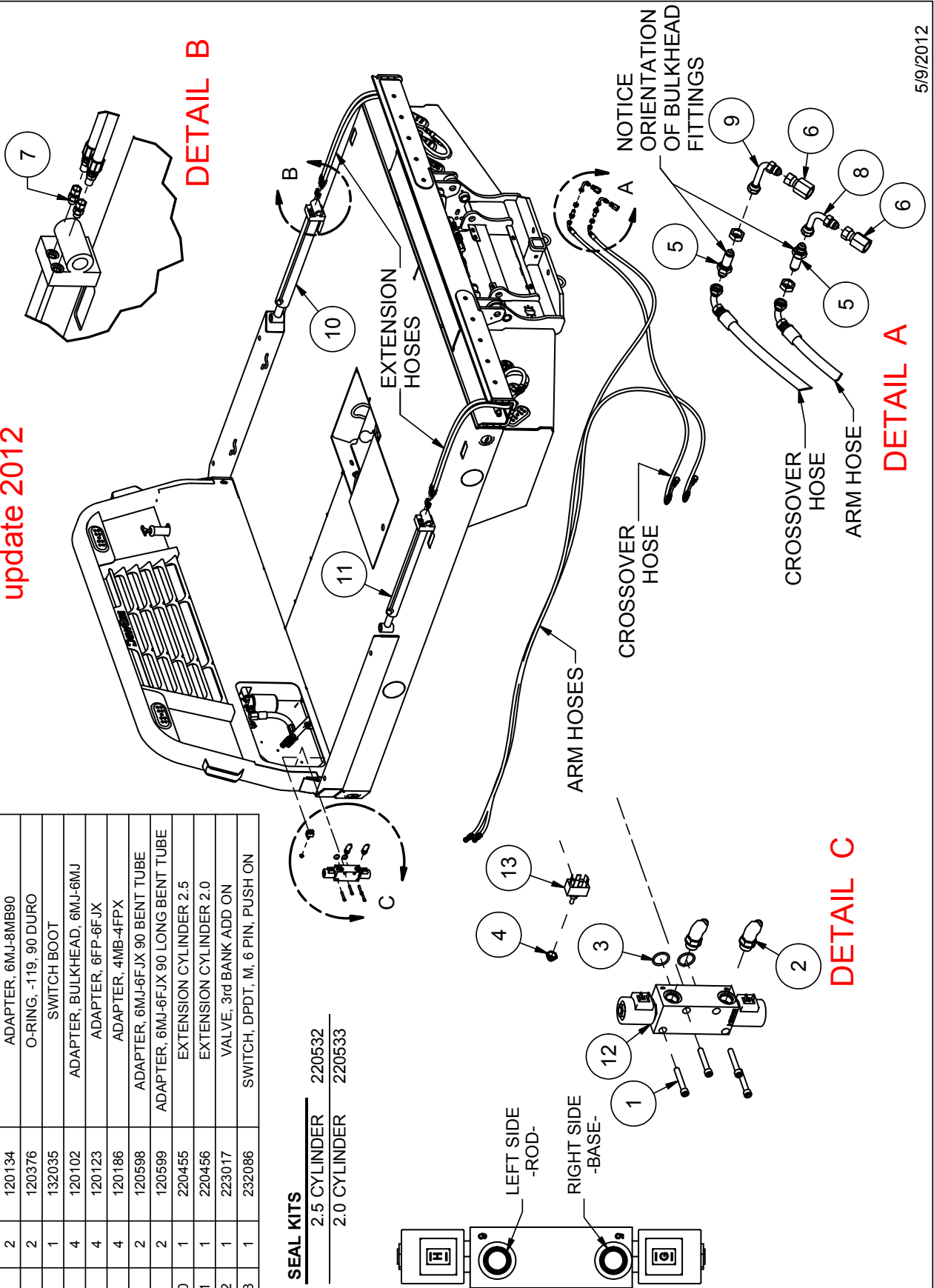
XRM SERIES	ARM HOSES		EXTENSION HOSES		CROSSOVER HOSE		HYDRAULIC HOSE KIT #
	6M3K - 6FJX90M / 6FJX	220625 (165in)	6M3K - 6-4MP / 6MPX	2ea 220605 (54.3in)	6M3K - 6FJX90M	220601 (79.6in)	
<b>470, 670</b>	220625 (165in)	220625 (165in)	2ea 220605 (54.3in)	2ea 220605 (54.3in)	220601 (79.6in)	220601 (79.6in)	<b>223011</b>
<b>475, 675</b>	220626 (188in)	220626 (188in)	2ea 220605 (54.3in)	2ea 220605 (54.3in)	220601 (79.6in)	220601 (79.6in)	<b>223010</b>
<b>477, 479,</b> <b>482, 484,</b> <b>677, 679</b>	220627 (200in)	220627 (200in)	2ea 220605 (54.3in)	2ea 220605 (54.3in)	220601 (79.6in)	220601 (79.6in)	<b>223009</b>
<b>487, 488</b>	220629 (218in)	220629 (218in)	2ea 220605 (54.3in)	2ea 220605 (54.3in)	220601 (79.6in)	220601 (79.6in)	<b>223007</b>
<b>578, 770,</b> <b>778</b>	220626 (188in)	220626 (188in)	2ea 220605 (54.3in)	2ea 220605 (54.3in)	220645 (94.0in)	220645 (94.0in)	<b>223021</b>
<b>582, 682,</b> <b>684, 782,</b> <b>784</b>	220627 (200in)	220627 (200in)	2ea 220605 (54.3in)	2ea 220605 (54.3in)	220645 (94.0in)	220645 (94.0in)	<b>223022</b>
<b>587, 687,</b> <b>688, 787,</b> <b>788</b>	220629 (218in)	220629 (218in)	2ea 220605 (54.3in)	2ea 220605 (54.3in)	220645 (94.0in)	220645 (94.0in)	<b>223023</b>

# XRM Hydraulics update 2012

Parts List		DESCRIPTION
ITEM	QTY	PART #
1	4	110168
2	2	120134
3	2	120376
4	1	132035
5	4	120102
6	4	120123
7	4	120186
8	2	120598
9	2	120599
10	1	220455
11	1	220456
12	1	223017
13	1	232086

### SEAL KITS

2.5 CYLINDER	220532
2.0 CYLINDER	220533



**DETAIL C**

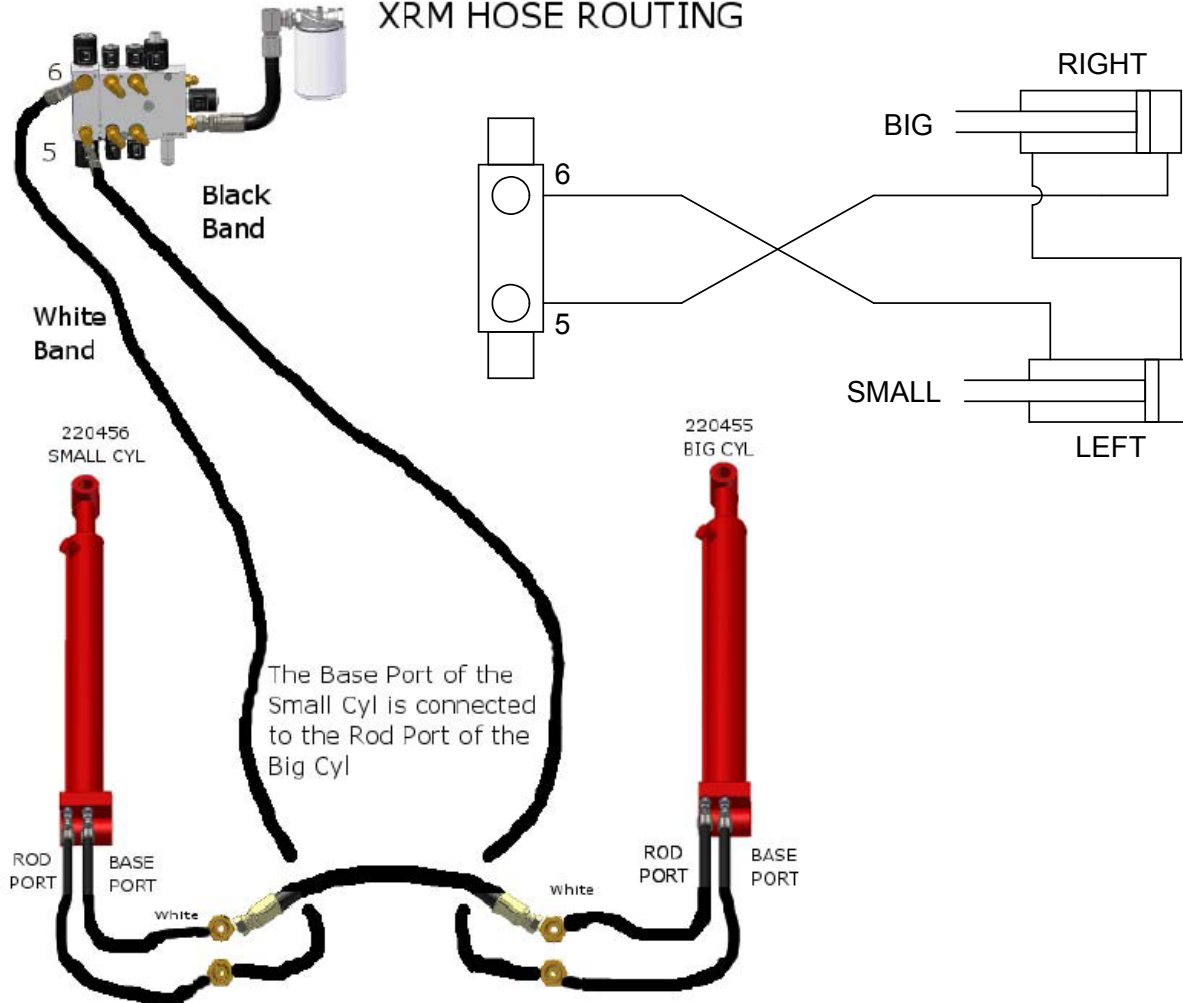
**DETAIL A**

**DETAIL B**

# XRM HYDRAULICS

XRM SERIES	ARM HOSES 6M3K - 6FJX90M / 6FJX	EXTENSION HOSES 6M3K - 6-4MP / 6MPX	CROSSOVER HOSE 6M3K - 6FJX90M	HYDRAULIC HOSE KIT #
470, 670	2ea 220625 (148in)	4ea 220605 (54.3in)	220601 (79.6in)	223011
475, 675	2ea 220626 (164in)	4ea 220605 (54.3in)	220601 (79.6in)	223010
477, 479, 482, 484, 677, 679	2ea 220627 (174in)	4ea 220605 (54.3in)	220601 (79.6in)	223009
487, 488	2ea 220629 (200in)	4ea 220605 (54.3in)	220601 (79.6in)	223007
578, 770, 778	2ea 220626 (164in)	4ea 220605 (54.3in)	220645 (94.0in)	223021
582, 682, 684, 782, 784	2ea 220627 (174in)	4ea 220605 (54.3in)	220645 (94.0in)	223022
587, 687, 688, 787, 788	2ea 220629 (200in)	4ea 220605 (54.3in)	220645 (94.0in)	223023

## XRM HOSE ROUTING



5/9/2012

# HYDRAULIC ASSEMBLY LIFT & SQUEEZE

Parts List

ITEM	PART #	QTY	DESCRIPTION
1	110352	1	BOLT, 1-8 X 10, GR8
2	110602	1	NUT, 1-8 LOCK NYLON INSERT
3	120145	1	ADAPTER, 6MB-6MP (3/8 X 4)
4	120146	1	ADAPTER, 8MP-6FP90
5	120147	1	ADAPTER, 6MB-8MP90
6	220084	2	COUPLER, PIONEER FEMALE
7	220452	1	LIFT CYLINDER
8	200129	1	BUSHING, 1.5 X 1.25 X 1.0 SPLIT GG/GH
9	510174	1	GREASE ZERK, 1/4-28 ST
10	222001	1	VALVE, CHECK W/ .063 ORIFICE
11	420005	2	COUPLER, PIONEER MALE

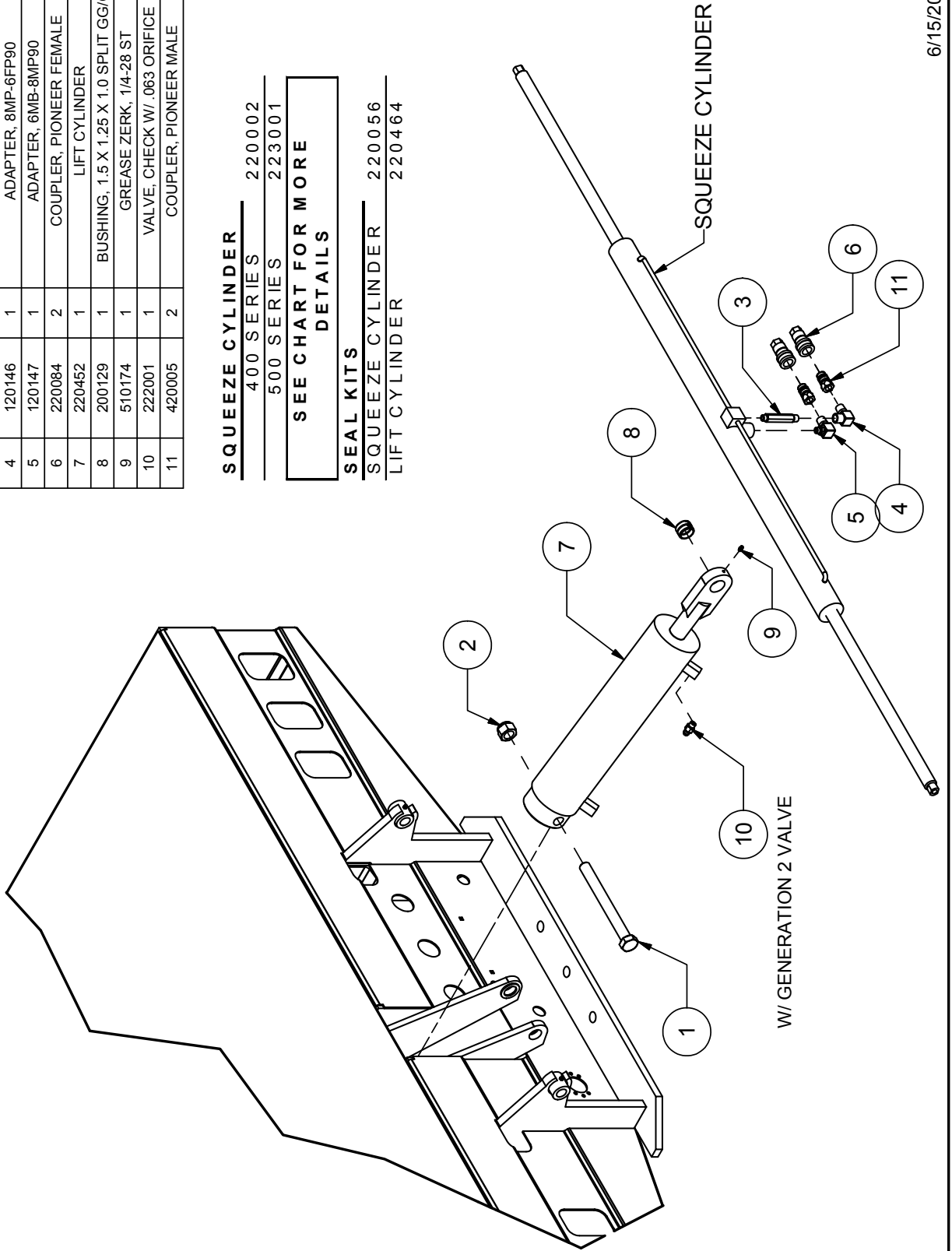
**SQUEEZE CYLINDER**

400 SERIES	220002
500 SERIES	223001

**SEE CHART FOR MORE  
DETAILS**

**SEAL KITS**

SQUEEZE CYLINDER	220056
LIFT CYLINDER	220464



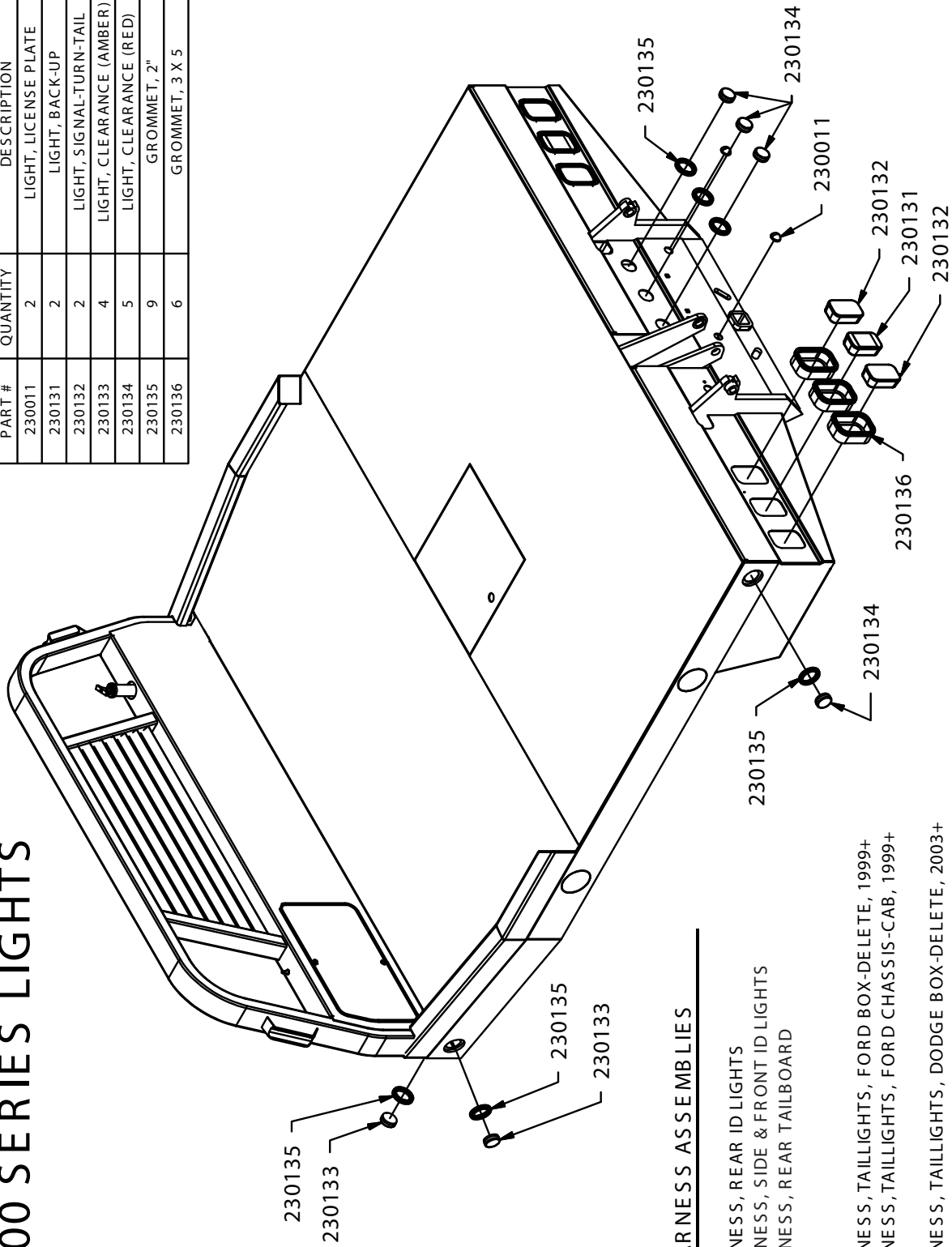


Flatbed Squeeze Cylinders					
Bed Width	Model #		Squeeze Cylinder	Model #	
85.375"	670		220002	470	
	675			475	
	677			477	
	679			479	
91.375"			220002	482	
				482	XRM
				484	
				484	XRM
				487	
				487	XRM
				488	
		488	XRM		
93.0"	682		223032		
	682	XRM			
	684				
	684	XRM			
	687				
	687	XRM			
	688				
688	XRM				
96.5"	770		223001		
	770	XRM			
	778			578	
	778	XRM		578	XRM
	782			582	
	782	XRM		582	XRM
	784				
	784	XRM			
	787			587	
	787	XRM		587	XRM
	788				
	788	XRM			
85.375	670	XRM	223001	470	XRM
	675	XRM		475	XRM
	677	XRM		477	XRM
	679	XRM		479	XRM
<p align="center"><b>A Synchronized Squeeze Cylinder</b></p> <p align="center">Part # <b>223026</b></p> <p align="center">is available as an option for all beds.</p> <p align="center">This cylinder is the same length as # <b>223001</b>.</p>					
<p align="center">Squeeze Cylinder Seal Kit Part # 220056</p>					

# 400 / 500 SERIES LIGHTS

Parts List

PART #	QUANTITY	DESCRIPTION
230011	2	LIGHT, LICENSE PLATE
230131	2	LIGHT, BACK-UP
230132	2	LIGHT, SIGNAL-TURN-TAIL
230133	4	LIGHT, CLEARANCE (AMBER)
230134	5	LIGHT, CLEARANCE (RED)
230135	9	GROMMET, 2"
230136	6	GROMMET, 3 X 5



## WIRING HARNESS ASSEMBLIES

### ALL FLATBEDS

- 232044 HARNESS, REAR ID LIGHTS
- 232045 HARNESS, SIDE & FRONT ID LIGHTS
- 232048 HARNESS, REAR TAILBOARD

### MODEL SPECIFIC:

#### FORD

- 232046 HARNESS, TAILLIGHTS, FORD BOX-DELETE, 1999+
- 232047 HARNESS, TAILLIGHTS, FORD CHASSIS-CAB, 1999+

#### DODGE

- 232049 HARNESS, TAILLIGHTS, DODGE BOX-DELETE, 2003+

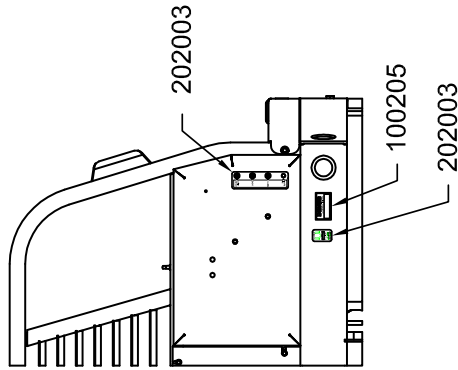
#### GM

- 232050 HARNESS, TAILLIGHTS, GM BOX-DELETE, 2002+
- 232050 HARNESS, TAILLIGHTS, GM CHASSIS-CAB, 2002+

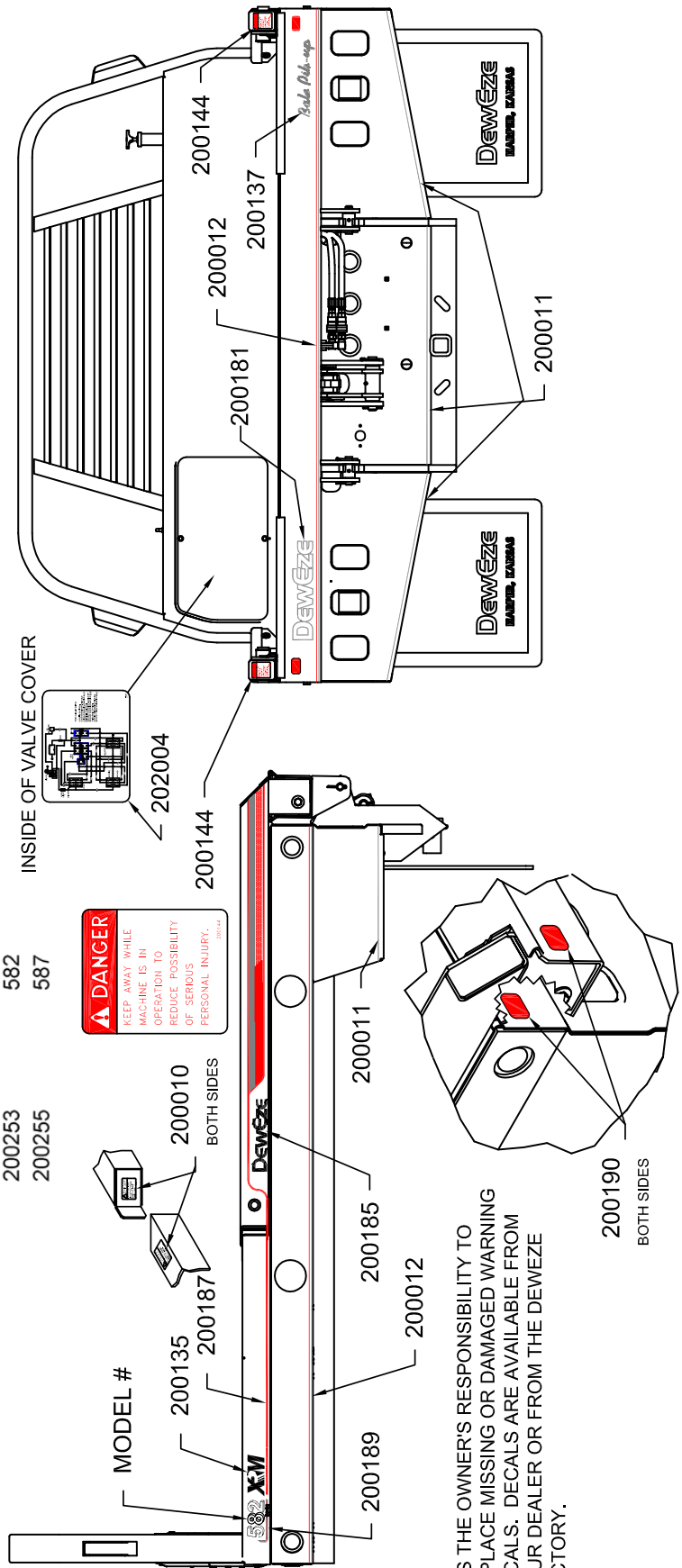
### ALL OTHER TRUCKS

- 232049 HARNESS, TAILLIGHTS

# DECALS



PART #	DESCRIPTION	PART #	QTY	DESCRIPTION
100205	SERIAL NUMBER PLATE	200010	4	DANGER DECAL, HORIZONTAL
<b>DECAL KITS</b>				
200211	400 SERIES	200011	--	SILVER PINSTRIPE
200140	400 SERIES XRM	200012	--	RED/SILVER PINSTRIPE
205001	500 SERIES	200135	2	XRM DECAL
205002	500 SERIES XRM	200137	1	BALE PIK-UP, SILVER SCRIPT
<b>MODEL NUMBER SETS</b>				
200193	470	200144	2	DANGER DECAL, VERTICAL
200195	475	200181	1	DEWEZE, SILVER
200197	477	200185	1	HUGGER ARM DECAL, LT-RT
200199	478	200187	--	STRIPING
200201	480	200189	1	STRIPING, MODEL #
200203	482	200190	4	REFLECTIVE DECAL
200205	485	202003	1	DECAL, SWITCH IDENTIFICATION
200207	487	202004	1	DECAL, RF SCHEMATIC
200252	578	300002	1	FEMA DECAL
200253	582			
200255	587			



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



# 400 & 500 Series Decals

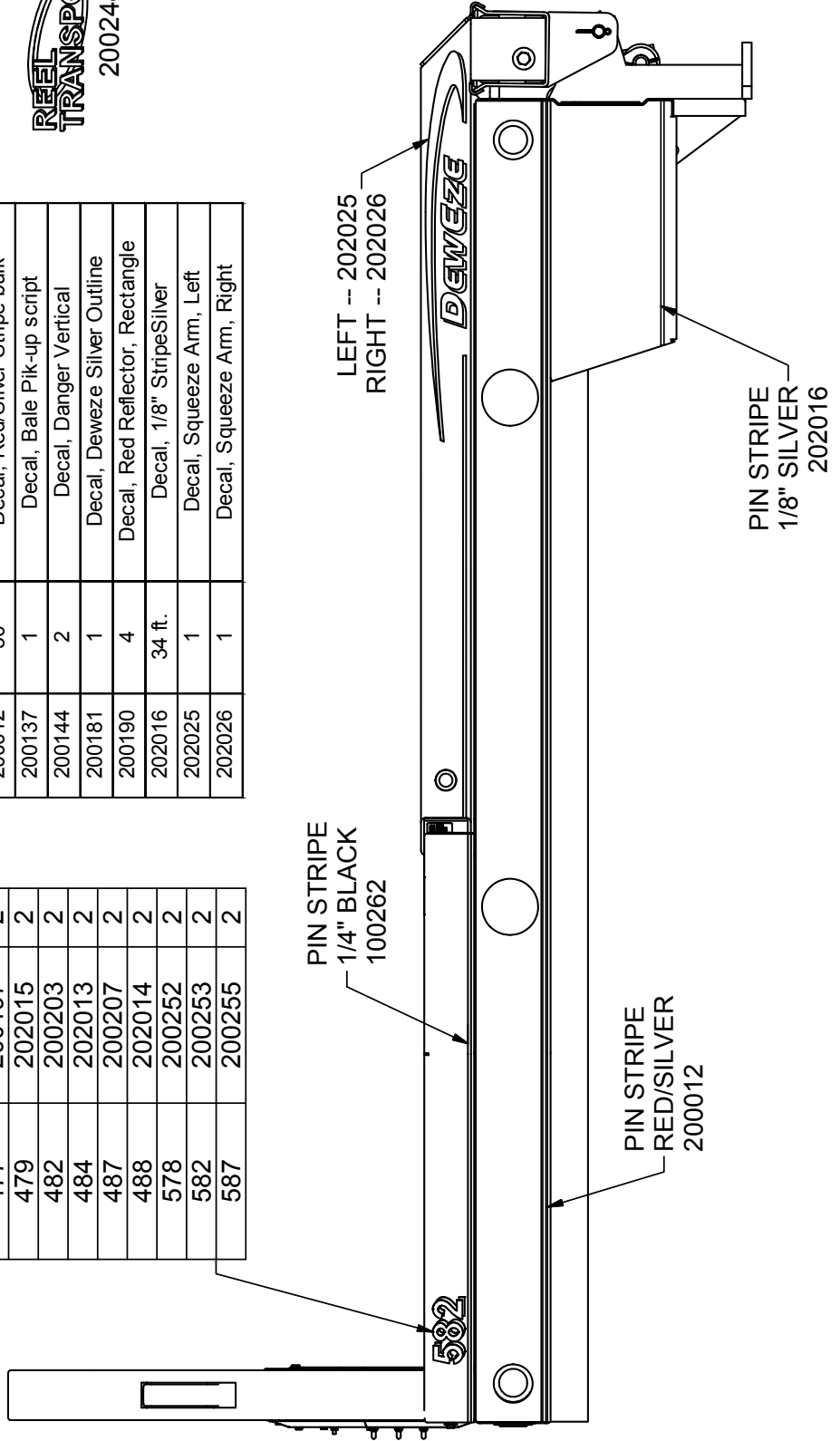
**XR**  
200135

**SSG**  
202006

**REEL  
TRANSPORT**  
200248

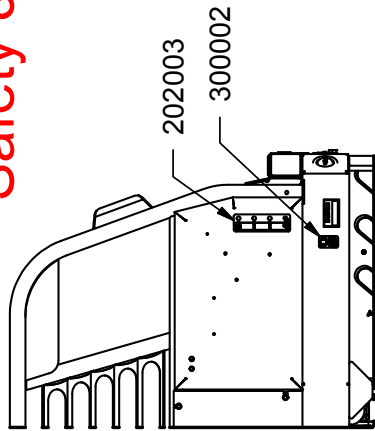
Decal Kit, 4-500 Series Part # 205074		
Part #	Qty	Description
100262	20 ft.	Decal, Striping, .25 Black
200010	4	Decal, Danger Red On White
200012	30	Decal, Red/Silver Stripe-bulk
200137	1	Decal, Bale Pick-up script
200144	2	Decal, Danger Vertical
200181	1	Decal, Deweze Silver Outline
200190	4	Decal, Red Reflector, Rectangle
202016	34 ft.	Decal, 1/8" StripeSilver
202025	1	Decal, Squeeze Arm, Left
202026	1	Decal, Squeeze Arm, Right

Model # Decals		
Left & Right	Part #	Qty
470	200193	2
475	200195	2
477	200197	2
479	202015	2
482	200203	2
484	202013	2
487	200207	2
488	202014	2
578	200252	2
582	200253	2
587	200255	2

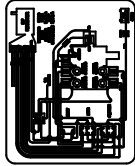


# Decals Safety & Operation

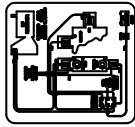
PART #	QTY	DESCRIPTION
200010	4	DANGER DECAL, HORIZONTAL
200137	1	BALE PIK-UP, SILVER SCRIPT
200144	2	DANGER DECAL, VERTICAL
200181	1	DEWEZE, SILVER OUTLINE
200190	4	REFLECTIVE DECAL
202003	1	DECAL, SWITCH IDENTIFICATION
202045	1	DECAL, WIRING DIAGRAM, KAR-TECH REMOTE
202046	1	DECAL, 3rd BANK OPTION,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



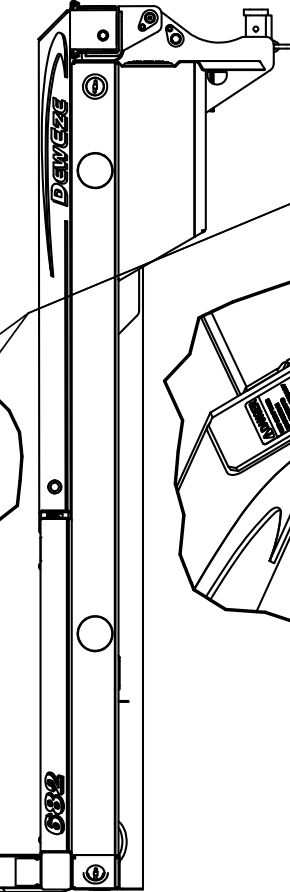
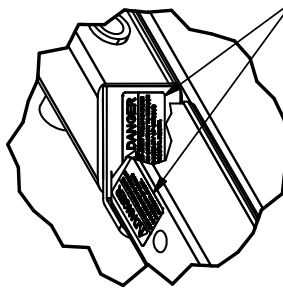
INSIDE OF VALVE COVER  
2 BANK  
3rd BANK



202045



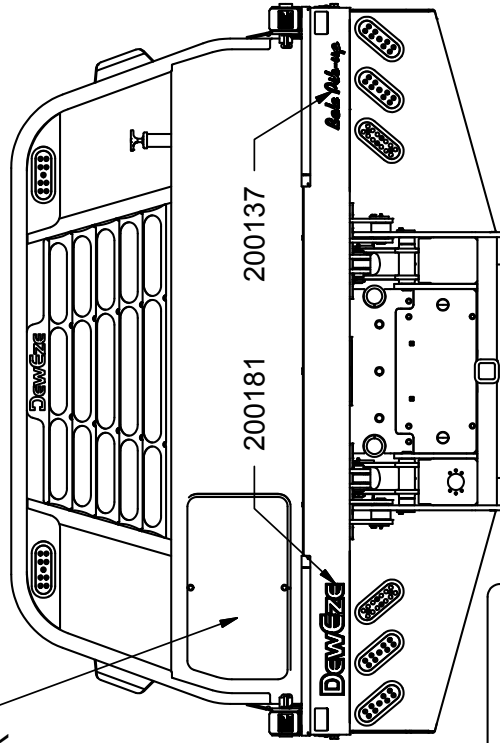
202046



200010  
BOTH SIDES

200144

200190



200181

200137

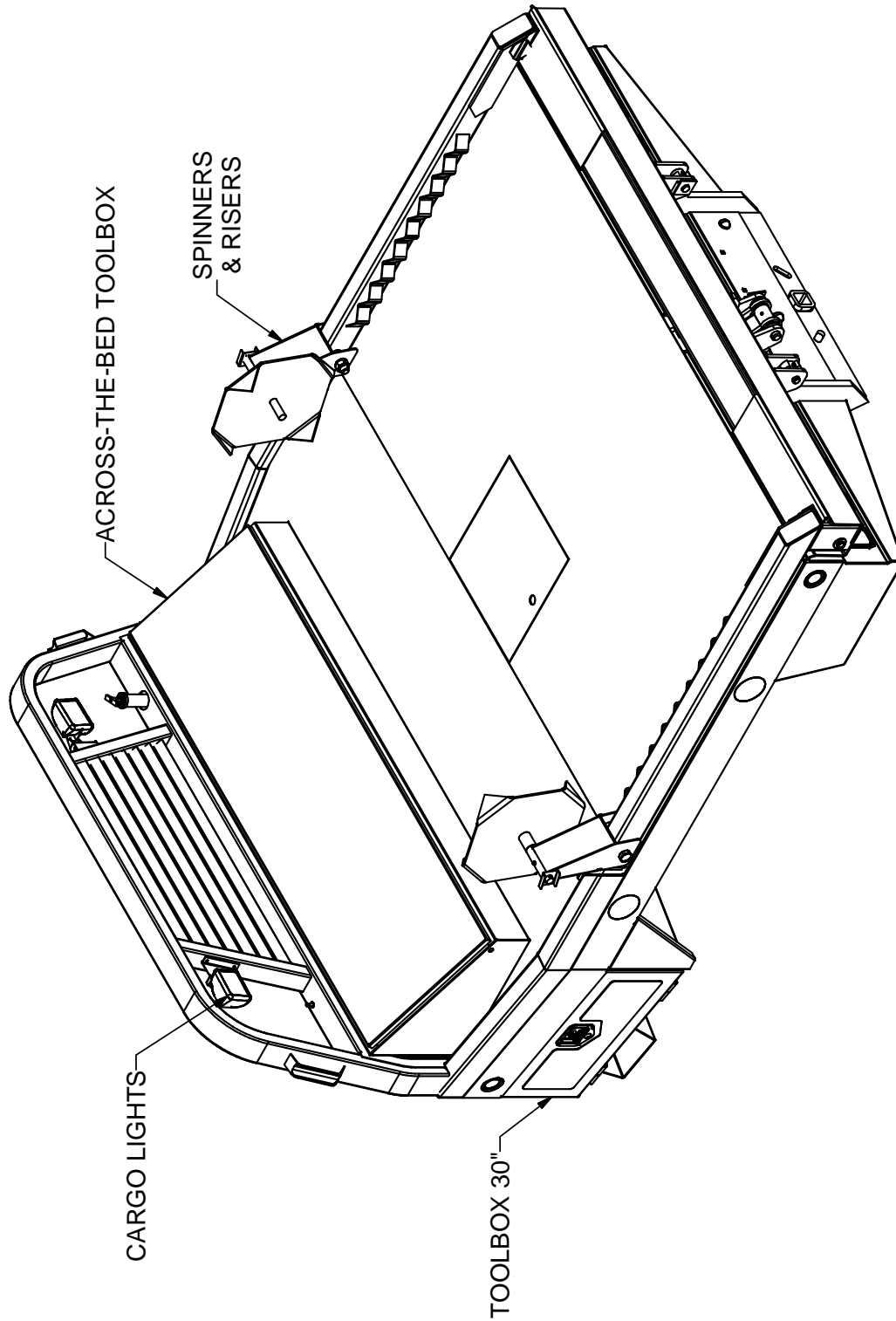
**! DANGER**

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

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

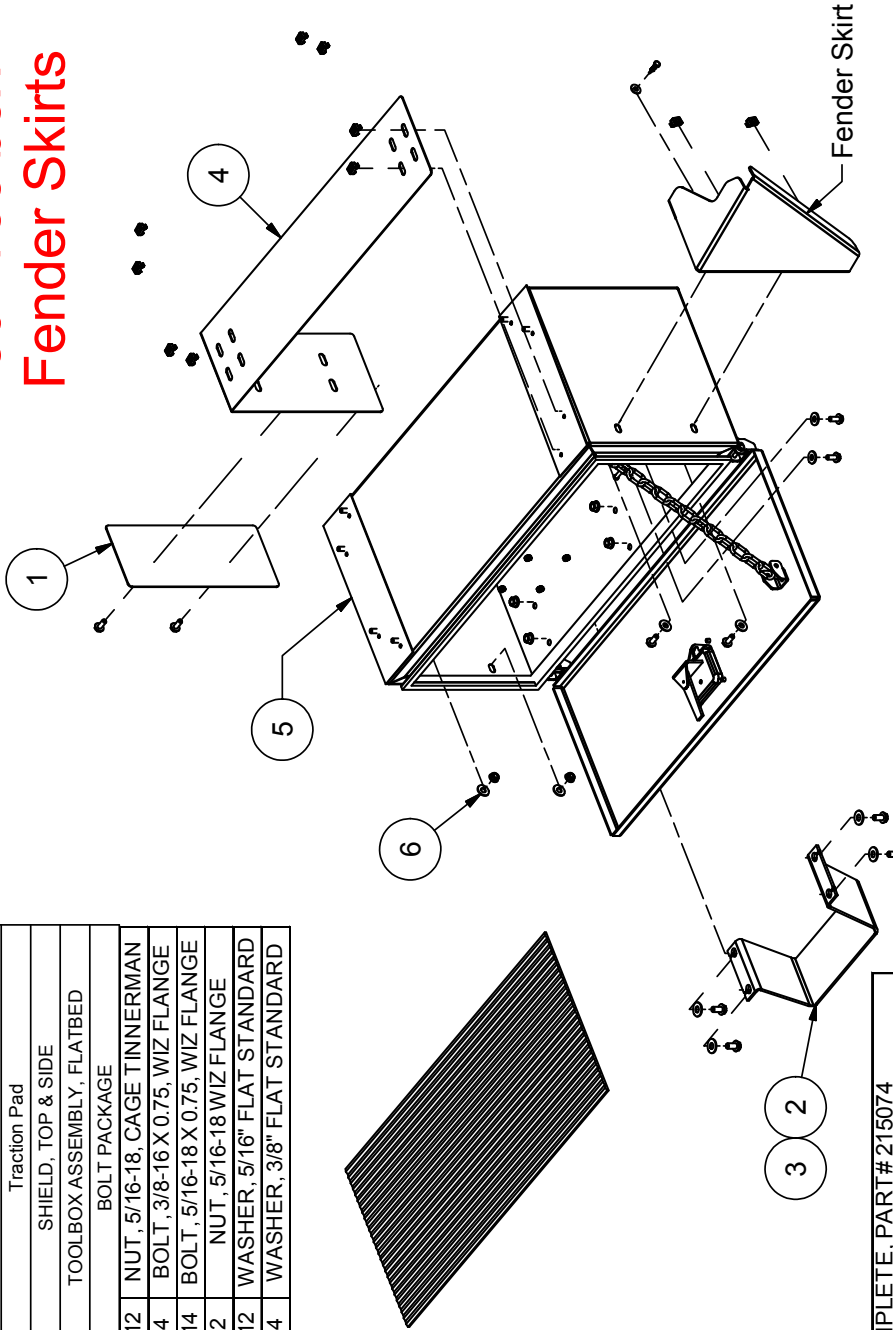
7/17/2012

# FLATBED ACCESSORIES



# Flatbed Accessories 30" Toolbox Fender Skirts

Toolbox Complete W/Step, Part# 205011			
ITEM	QTY	PART #	DESCRIPTION
1	1	202001	DECAL, CHIP GUARD
2	1	211109	STEP, TOOLBOX
3	1	540082	Traction Pad
4	1	211684	SHIELD, TOP & SIDE
5	1	215074	TOOLBOX ASSEMBLY, FLATBED
6	1	205012	BOLT PACKAGE
	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
	12	110665	WASHER, 5/16" FLAT STANDARD
	4	110676	WASHER, 3/8" FLAT STANDARD



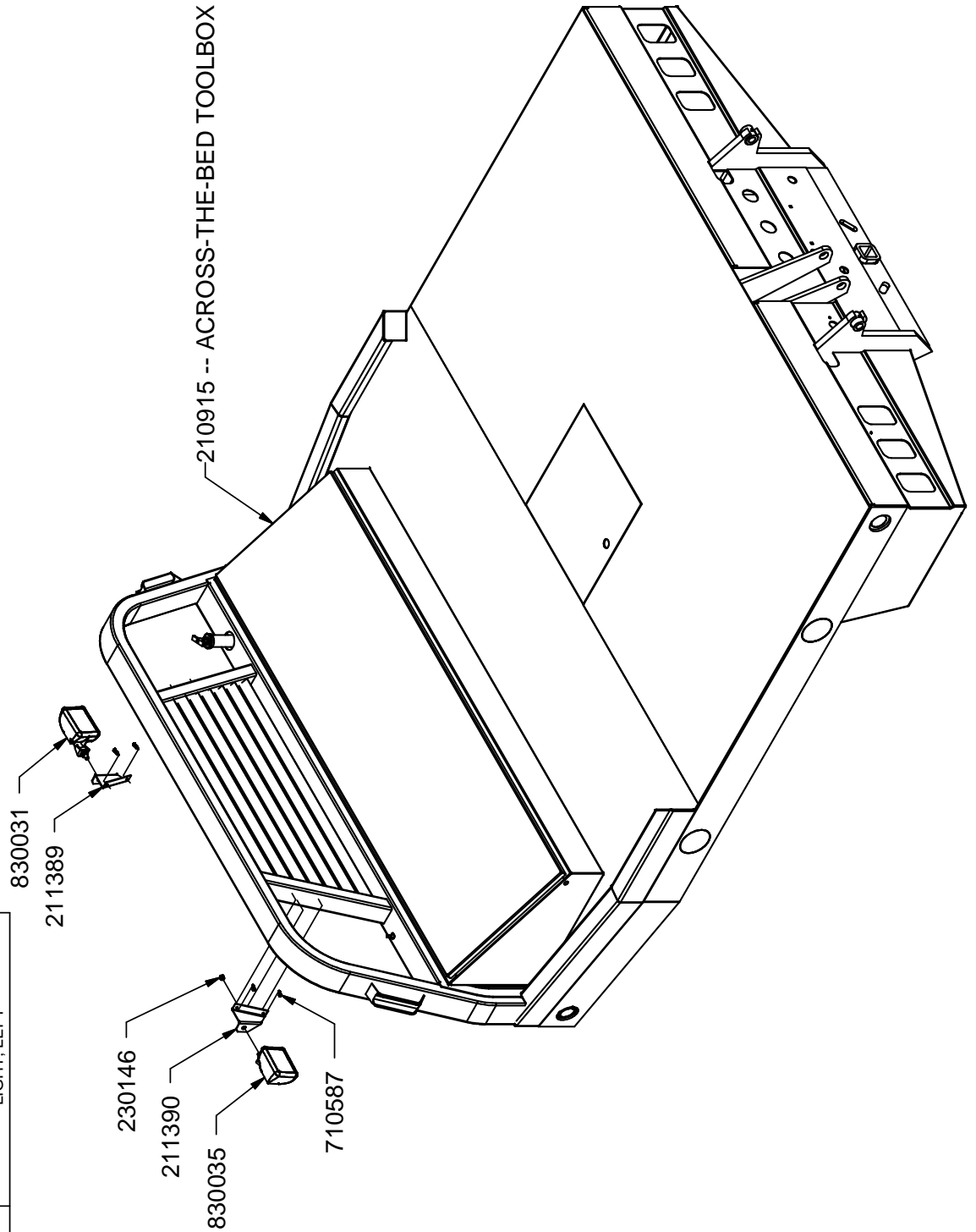
TOOLBOX COMPLETE, PART# 215074		
PART #	QTY	DESCRIPTION
110174	4	NUT, 1/4-20 LOCK 2-WAY
110300	3	COTTER PIN, 3/32 X 0.75
112011	3	PUSH NUT, WASHER CAP STYLE
200184	1	SEAL, LATCH
202010	1	SEAL, TOOLBOX LID (TRIM-LOK X-2897)
211119	1	TOOL BOX MAT
212003	2	GASKET, TOOLBOX MOUNT
212007	1	LATCH W/STUDS
215072	1	TOOL BOX DOOR AND HINGE WLDMT
215073	1	TOOL BOX AND HINGE WLDMT

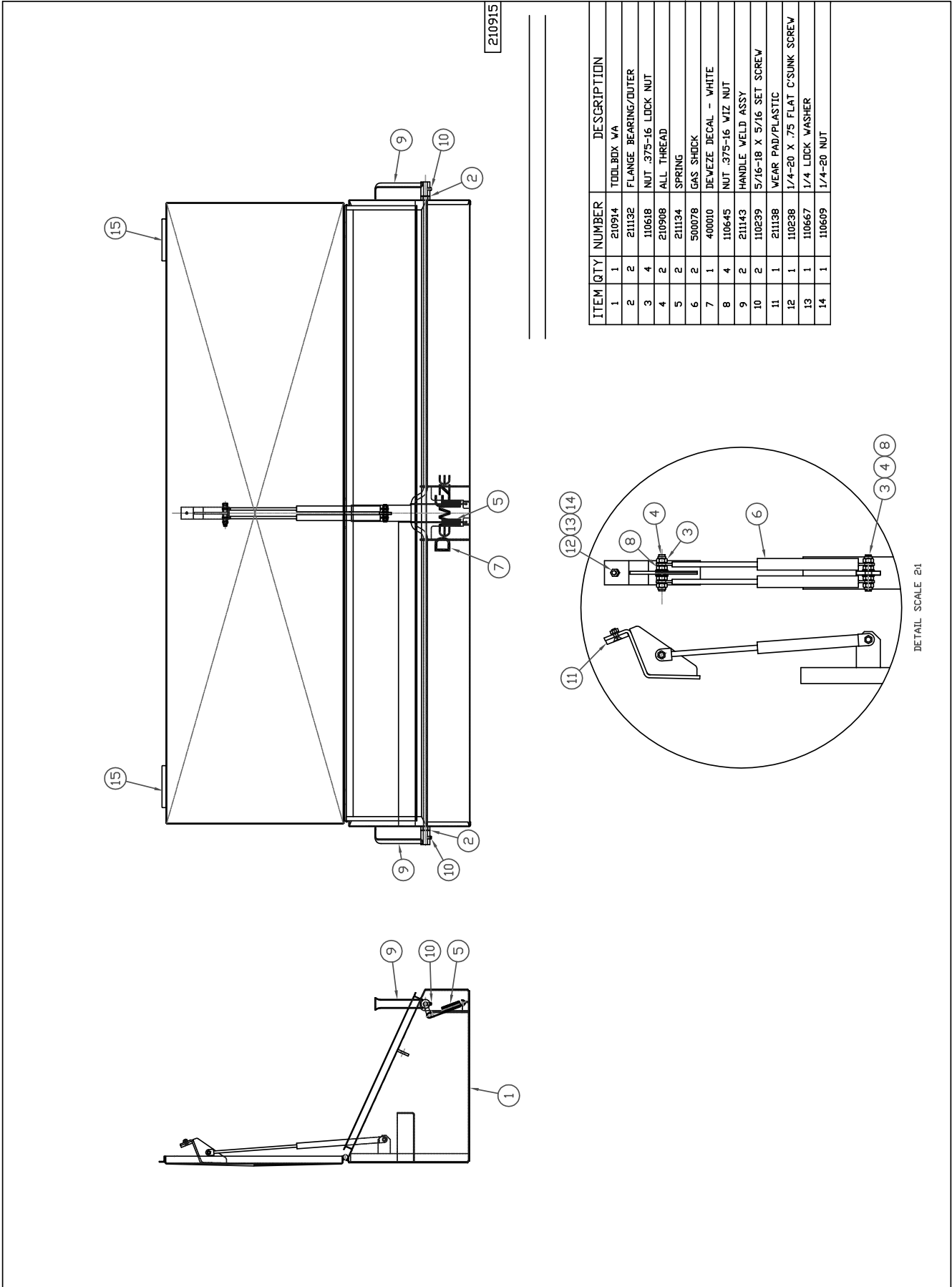
Fender Skirts	Kits	Left	Right
400 Series	205070	260269	260270
		211293	211294
500 Series	N/A		
	205071	260271	260272
		211587	211588
600 Series	N/A		
	205070	260269	260270
	205072	260273	260274
700 Series	205071	260271	260272
	205073	260275	260276

7/24/2012

# FLATBED ACCESSORIES CARGO LIGHTS & ACROSS THE BED TOOLBOX

CARGO LIGHT ASSY, PART#211391	
PART #	DESCRIPTION
211389	LIGHT BRACKET, RIGHT
211390	LIGHT BRACKET, LEFT
230146	GROMMET, 3/16 ID X 9/16 OD
710587	SCREW, 3/16 X .75 TEK SELF-TAP
830031	LIGHT, RIGHT
830035	LIGHT, LEFT





210915

ITEM	QTY	NUMBER	DESCRIPTION
1	1	210914	TOOLBOX WA
2	2	21132	FLANGE BEARING/OUTER
3	4	110618	NUT .375-16 LOCK NUT
4	2	210908	ALL. THREAD
5	2	21134	SPRING
6	2	500078	GAS SHOCK
7	1	400010	DEWEZE DECAL - WHITE
8	4	110645	NUT .375-16 WIZ NUT
9	2	211143	HANDLE WELD ASSY
10	2	110239	5/16-18 X 5/16 SET SCREW
11	1	211138	WEAR PAD/PLASTIC
12	1	110238	1/4-20 X .75 FLAT C/SUNK SCREW
13	1	110667	1/4 LOCK WASHER
14	1	110609	1/4-20 NUT

DETAIL SCALE 2:1

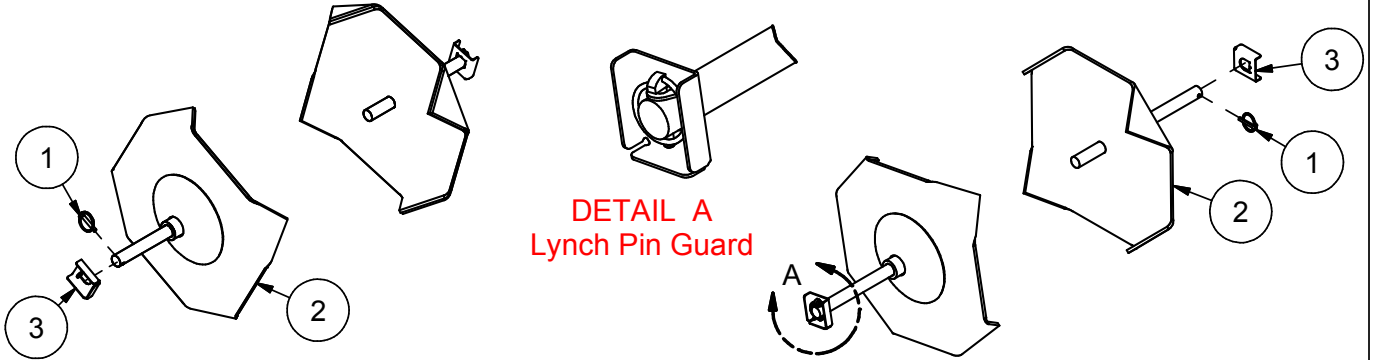
# Flatbed Accessories Spinners & Risers

**Spinner Assy 16" Pair, Part# 210008**

ITEM	QTY	PART #	DESCRIPTION
1	2	210006	Pin, Lynch 1/4 x 1 1/2
2	2	210007	WELDMNT, SPINNER 16"
3	2	211513	LYNCH PIN GUARD

**Spinner Assy 16" Pair, XRM, Part #215007**

ITEM	QTY	PART #	DESCRIPTION
1	2	210006	Pin, Lynch 1/4 x 1 1/2
2	2	211509	WELDMNT, SPINNER 16" XRM
3	2	211513	LYNCH PIN GUARD

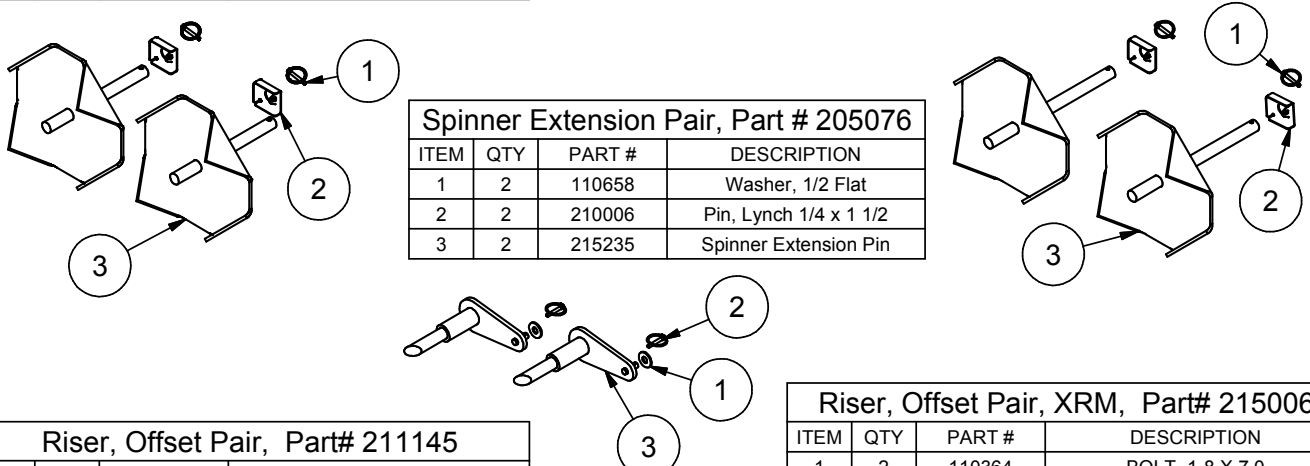


**Spinner Assy 12" Pair, Part# 215081**

ITEM	QTY	PART #	DESCRIPTION
1	2	210006	Pin, Lynch 1/4 x 1 1/2
2	2	211513	LYNCH PIN GUARD
3	2	215080	WELDMNT, SPINNER 12"

**Spinner Assy 12" Pair, XRM, Part# 215234**

ITEM	QTY	PART #	DESCRIPTION
1	2	210006	Pin, Lynch 1/4 x 1 1/2
2	2	211513	LYNCH PIN GUARD
3	2	215233	WELDMNT, SPINNER 12" XRM



**Spinner Extension Pair, Part # 205076**

ITEM	QTY	PART #	DESCRIPTION
1	2	110658	Washer, 1/2 Flat
2	2	210006	Pin, Lynch 1/4 x 1 1/2
3	2	215235	Spinner Extension Pin

**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

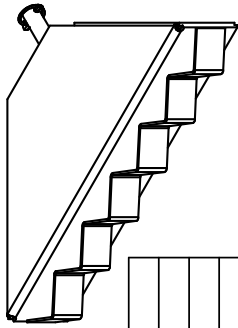
**Riser, Offset Pair, XRM, Part# 215006**

ITEM	QTY	PART #	DESCRIPTION
1	2	110364	BOLT, 1-8 X 7.0
2	2	110601	NUT, 1-8
3	1	211507	LEFT RISER WELD ASSY
4	1	211508	RIGHT RISER WELD ASSY
5	2	510174	GREASE ZERK, 1/4-28 ST

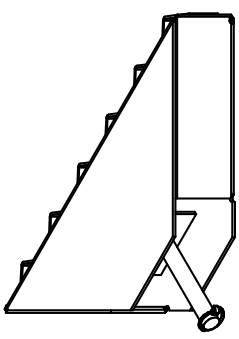


7/30/2013

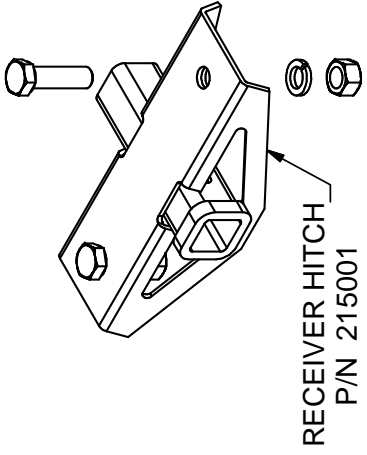
# OTHER ACCESSORIES



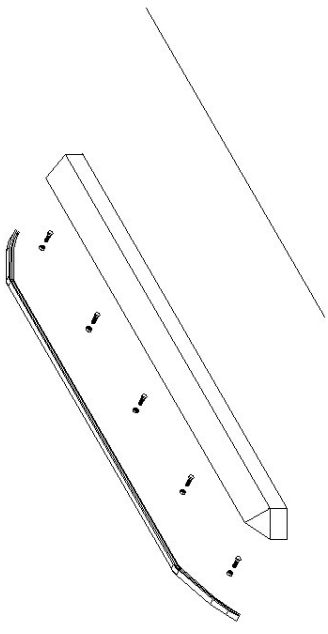
ADAPTER ASSY 210933	
PART #	DESCRIPTION
210929	4' BALE ADAPTER
210006	Pin, Lynch 1/4 x 1 1/2



LIFT BAR  
P/N 210426



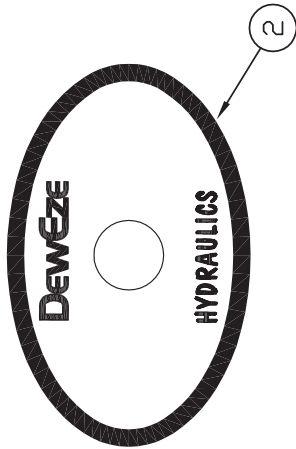
RECEIVER HITCH  
P/N 215001



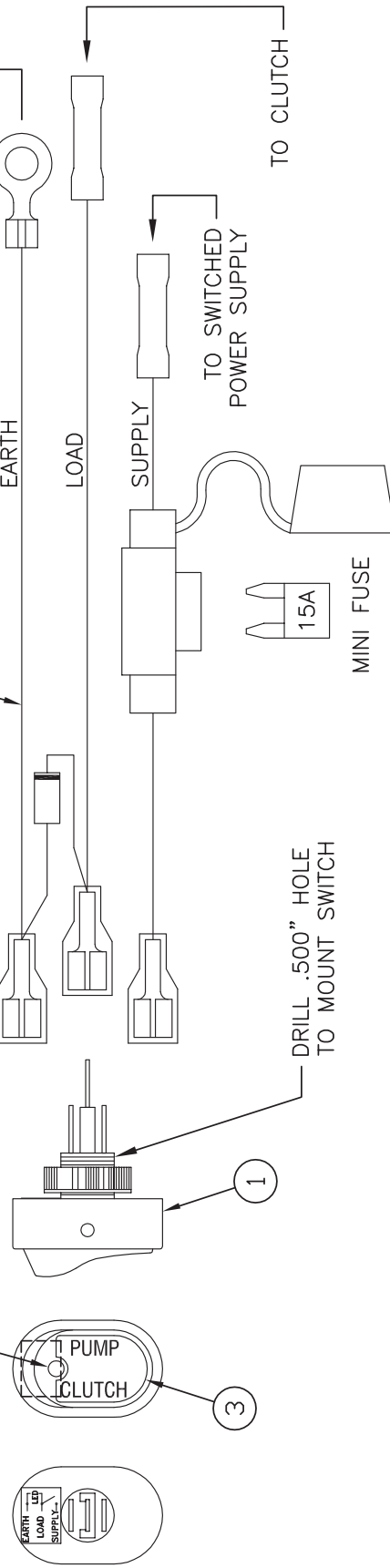
211480 FENDER KIT  
211439 FENDER WELDMENT  
211481 EDGE TRIM



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



DECAL ORIENTED TO LED ON SWITCH AS SHOWN



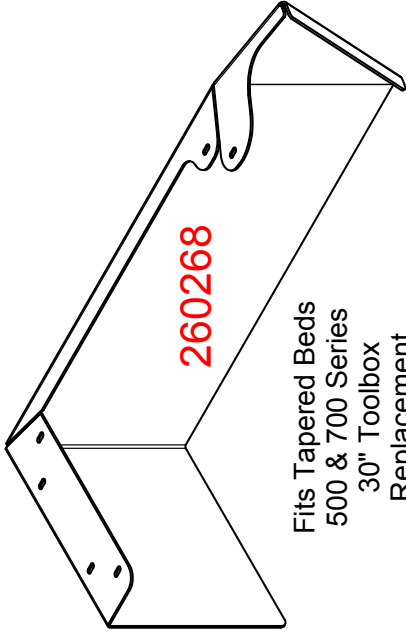
SWITCH, CLUTCH CONTROL ASSY 735001



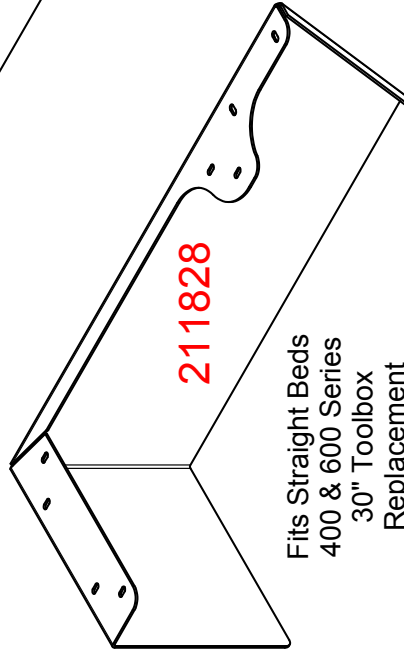
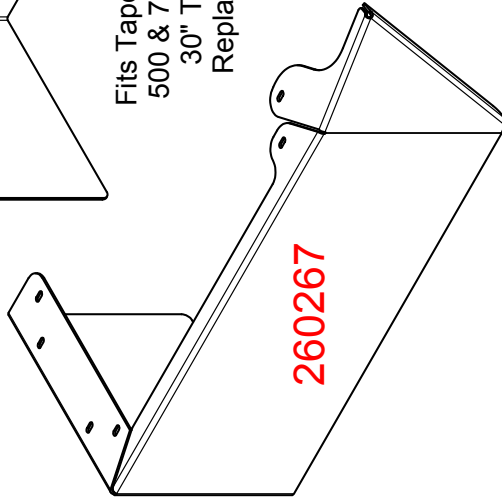
# Front Skirt Toolbox Replacement



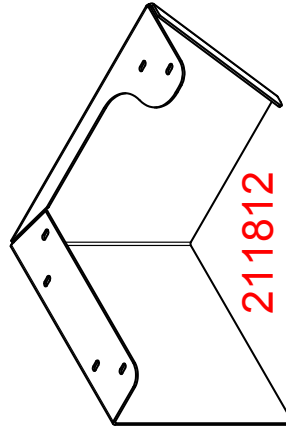
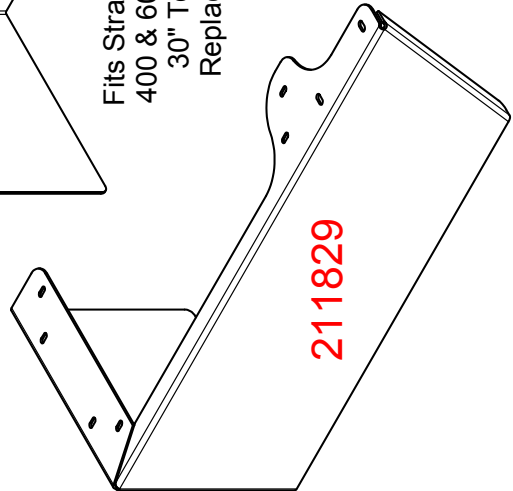
  
**215116**  
 Bolt Kit  
 1ea Required  
 Per Fenderskirt



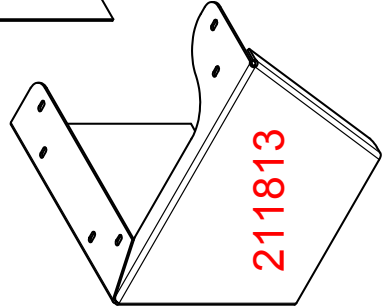
Fits Tapered Beds  
 500 & 700 Series  
 30" Toolbox  
 Replacement



Fits Straight Beds  
 400 & 600 Series  
 30" Toolbox  
 Replacement



Fits Short Beds  
 20" Toolbox  
 Replacement



# Appendix I

## Remote Control

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.

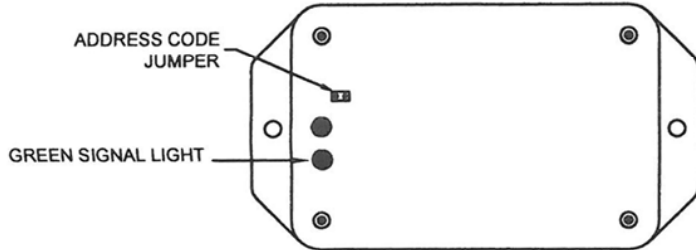
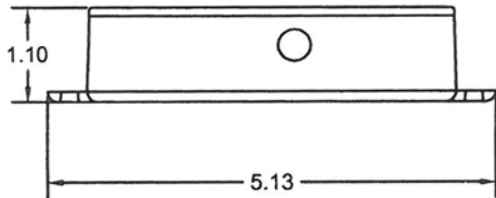
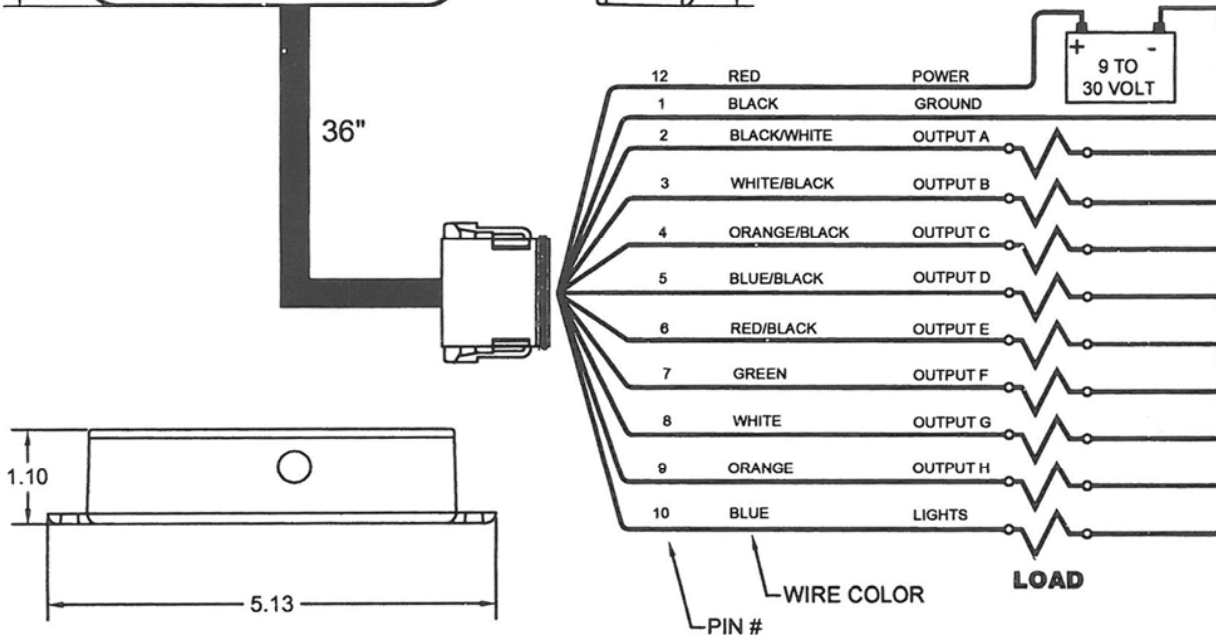
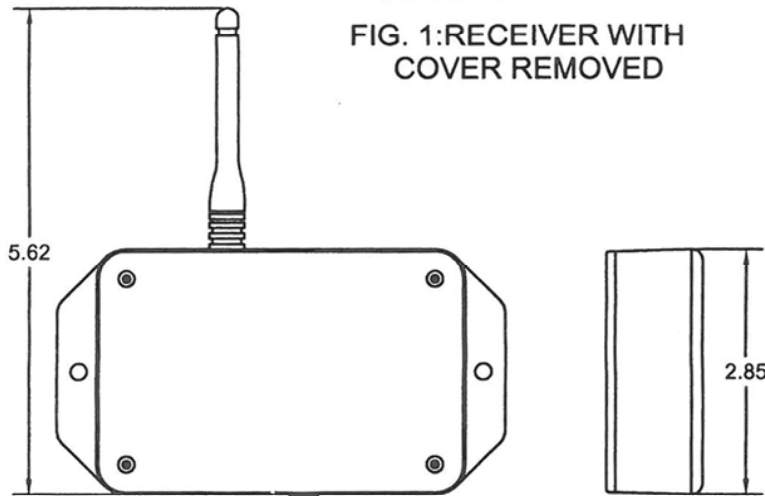
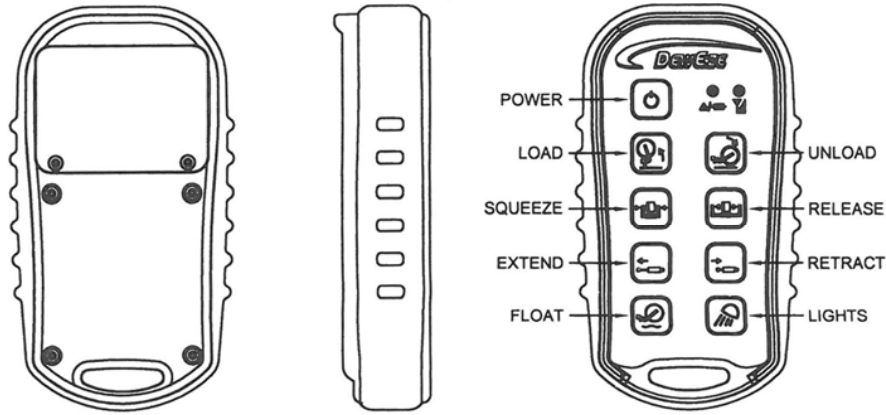


FIG. 1: RECEIVER WITH COVER REMOVED



RECEIVER (P/N: 3A1513B)



TRANSMITTER (P/N: 3A1518A) 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.

### 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 synchronize a new transmitter and receiver together, refer to Fig. 1 and use the following procedure:

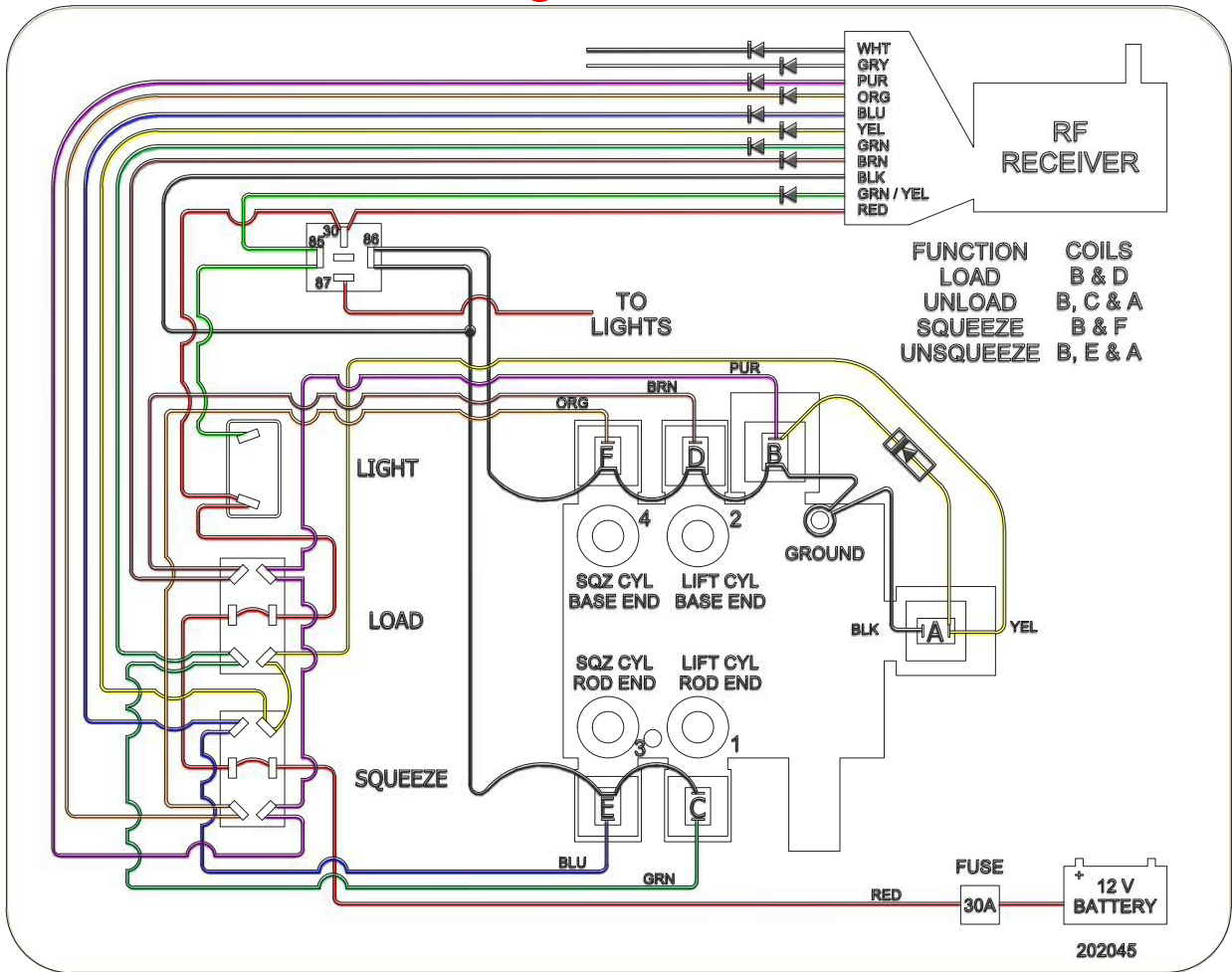
1. Remove receiver cover
2. Apply power to the receiver
3. Place a jumper across the TEACH ID jumper inside the receiver. green LED will go steady inside the receiver. Remove the jumper and store it on one pin
4. To get the transmitter into TEACH ID mode, press and hold the POWER button, UNLOAD and FLOAT
5. Release the POWER button and wait for 1 second or until the green LED goes from steady to blinking in the receiver. Release the other buttons
6. Teach complete
7. Replace the cover on the receiver

### 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)

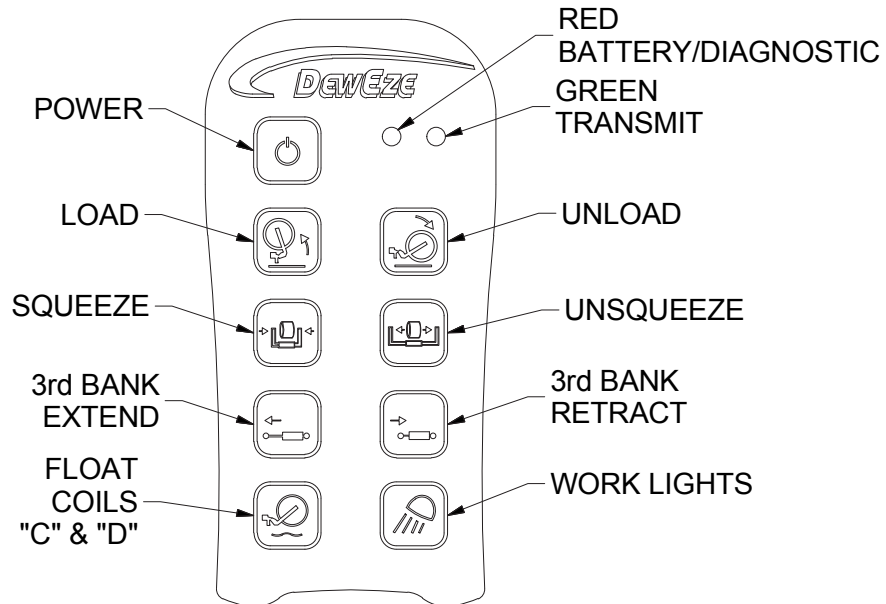
Courtesy of KAR-TECH Delafield, WI

## 2 Bank Wiring, Kar-Tech Remote



Decal Part# 202045

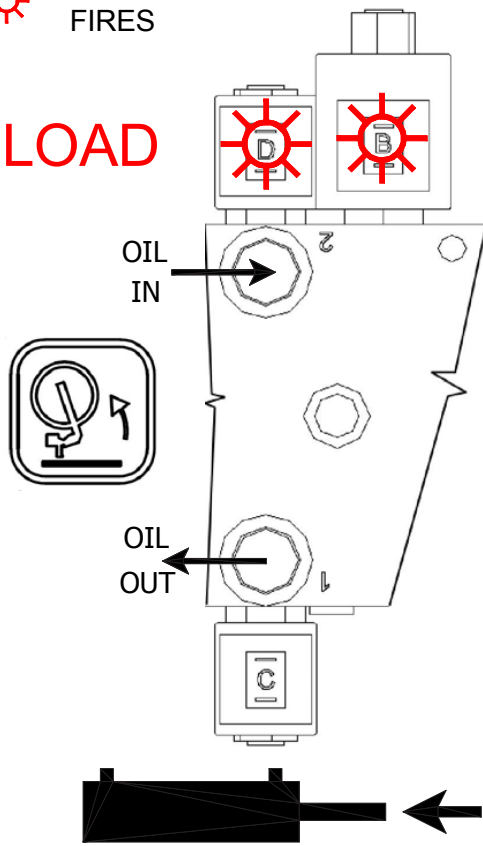
Harness Part# 232087



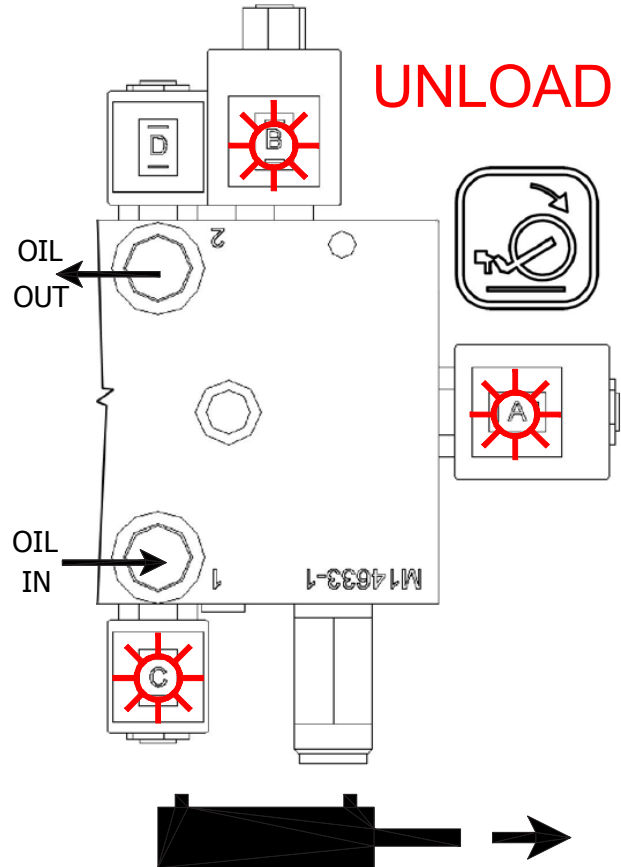
3/11/2011

 SOLENOID FIRES

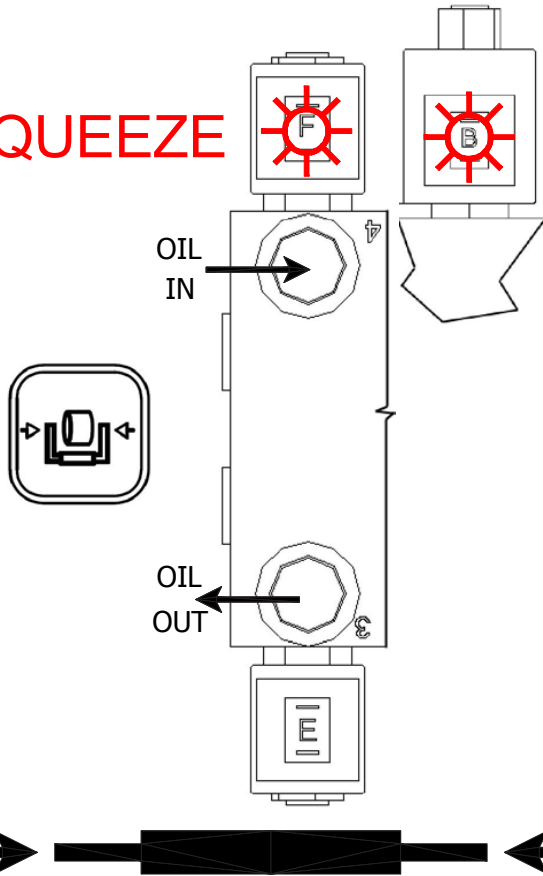
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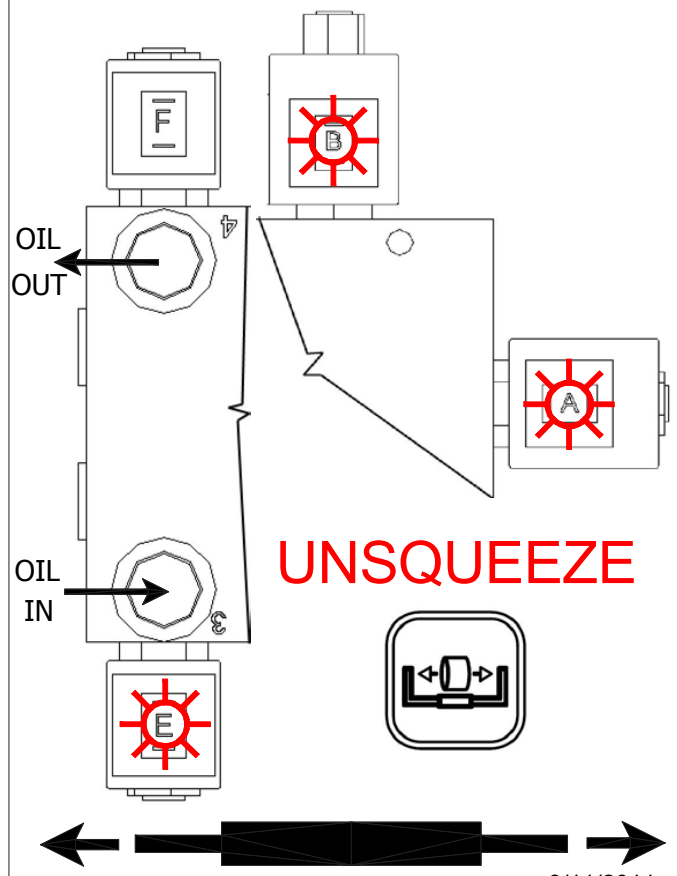
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**SQUEEZE**

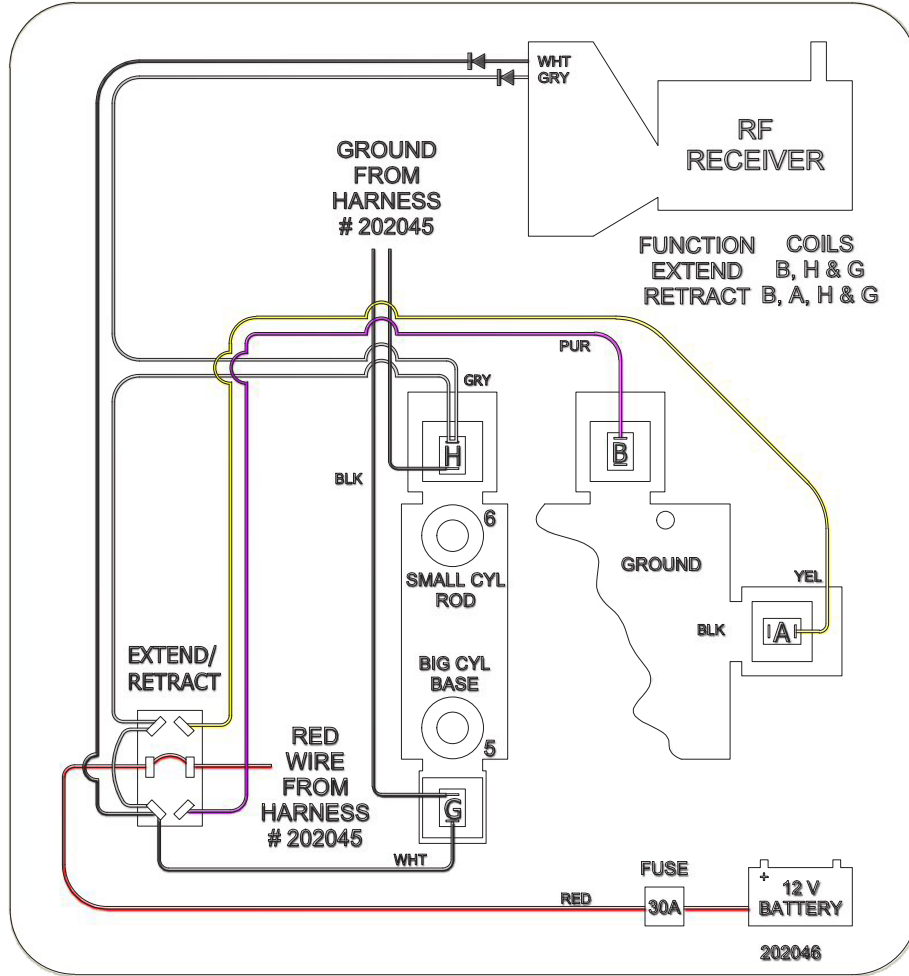


**UNSQUEEZE**



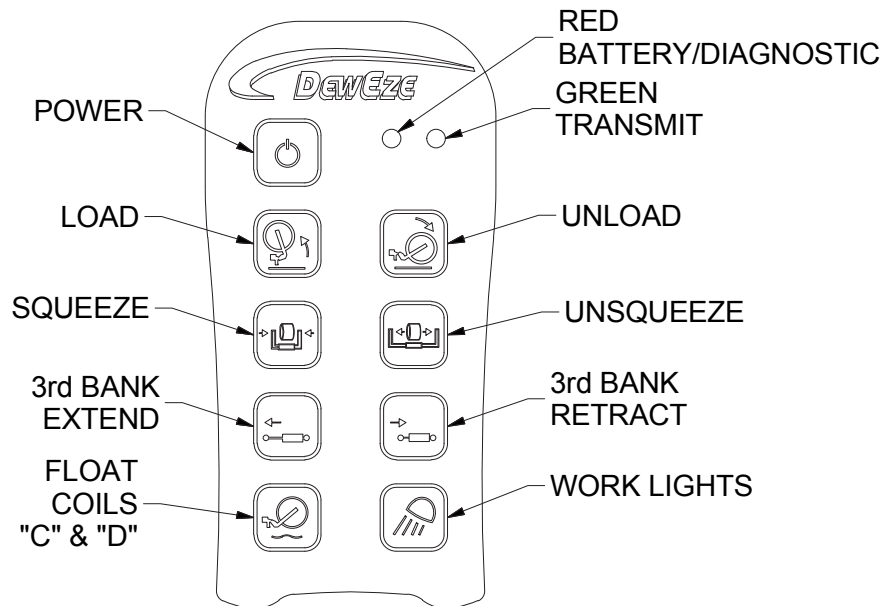
3/11/2011

# 3rd Bank Wiring, Kar-Tech Remote



Decal Part# 202046

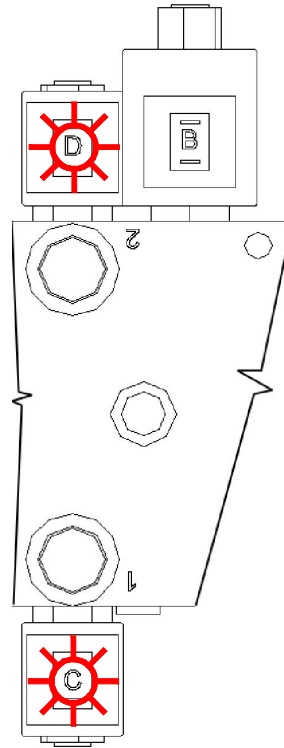
Harness Part# 232088



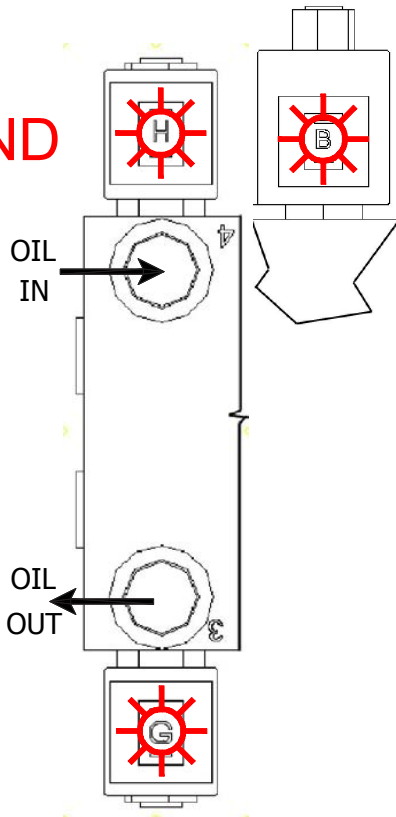
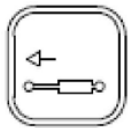
3/11/2011

 SOLENOID FIRES

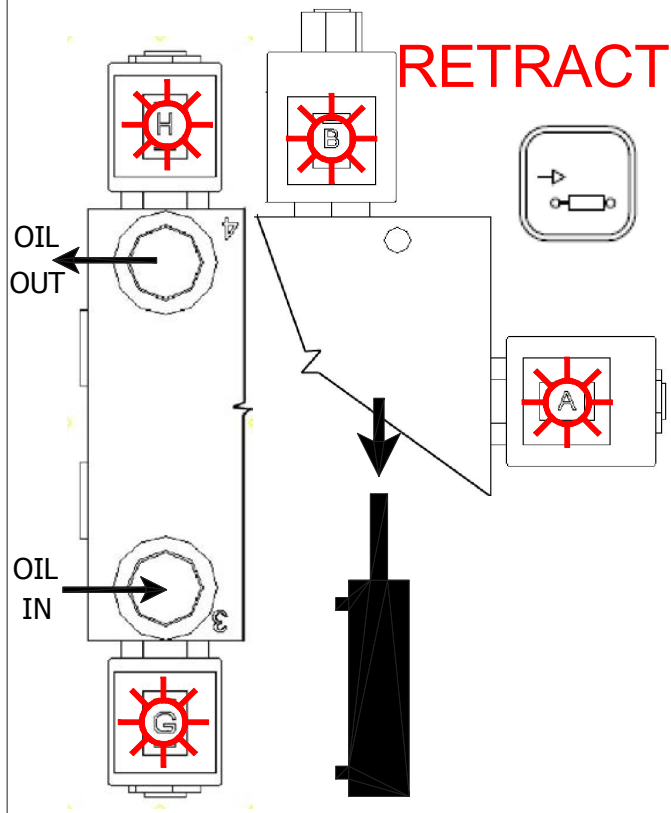
**FLOAT**



**EXTEND**



**RETRACT**



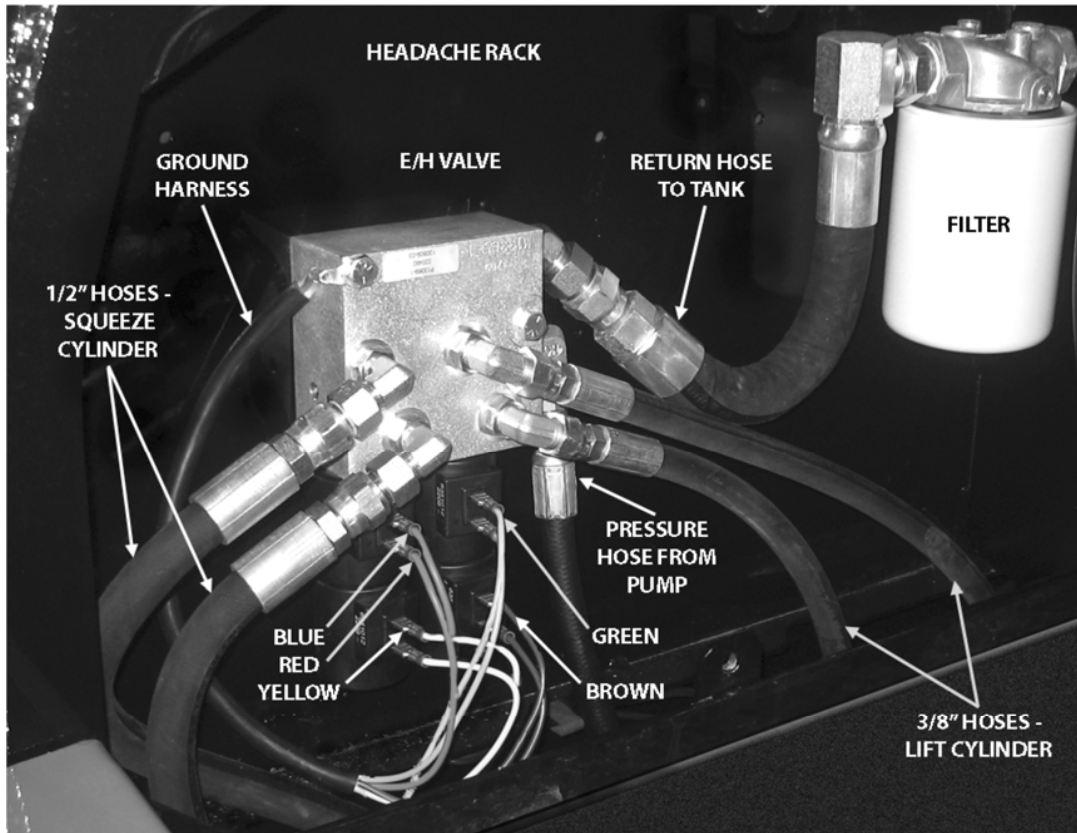
3/11/2011



## Appendix II

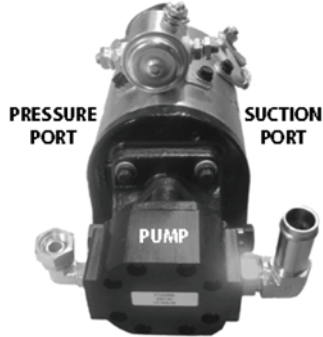
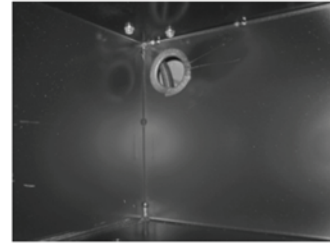
## Electric/Hydraulic Power Unit

### E / H KIT INSTALLATION INSTRUCTIONS

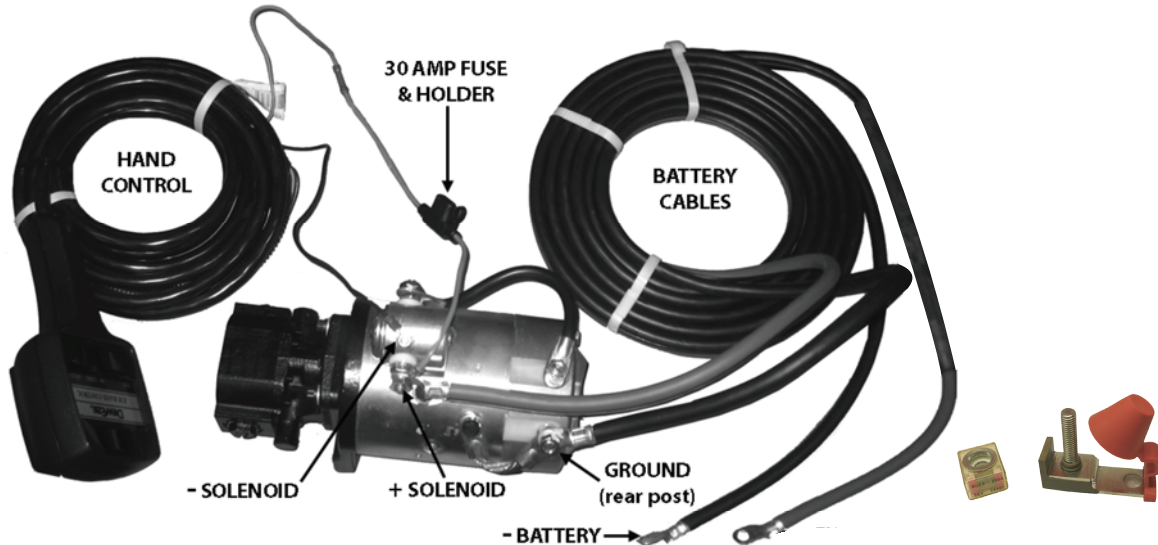
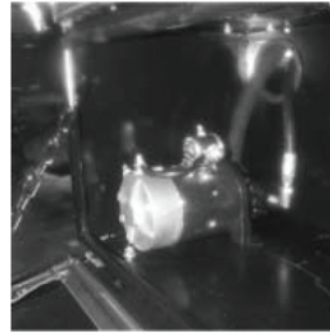


- 1) Attach adapters to E/H valve and install inside cavity on headache rack.
- 2) Attach return hose to valve and filter housing. Attach pressure hose from pump.
- 3) Attach blue and yellow wires from hand control to valve cartridge that controls squeeze cylinder as indicated.
- 4) Attach green and brown wires from hand control to valve cartridge that controls lift cylinder as indicated.
- 5) Attach ground harness to valve coils with similar color wires (yellow, brown and green). Blue and red wires are on same coil.
- 6) Attach 1/2" hoses from squeeze cylinder to side of valve controlled by blue and yellow wires. If hand control does not respond as desired, pioneer couples on rear of bed may be reversed or blue and yellow wires may be reversed.
- 7) Attach 3/8" hoses from lift cylinder side of valve controlled by green and brown wires. If hand control does not respond as desired, green and brown wires may be reversed.

- 8) Use diagram to locate holes in driver's side toolbox.
- 9) Drill 2.5" hole with hole saw and use molding to protect hoses from rough edges.
- 10) Drill 3/8" holes for pump as indicated and bolt pump to inside of toolbox.



- 11) Attach suction hose and pressure hose to pump with adapters provided.
- 12) Attach suction hose to bottom of reservoir as indicated in diagram.
- 13) Attach black wire from hand control to negative terminal on solenoid.

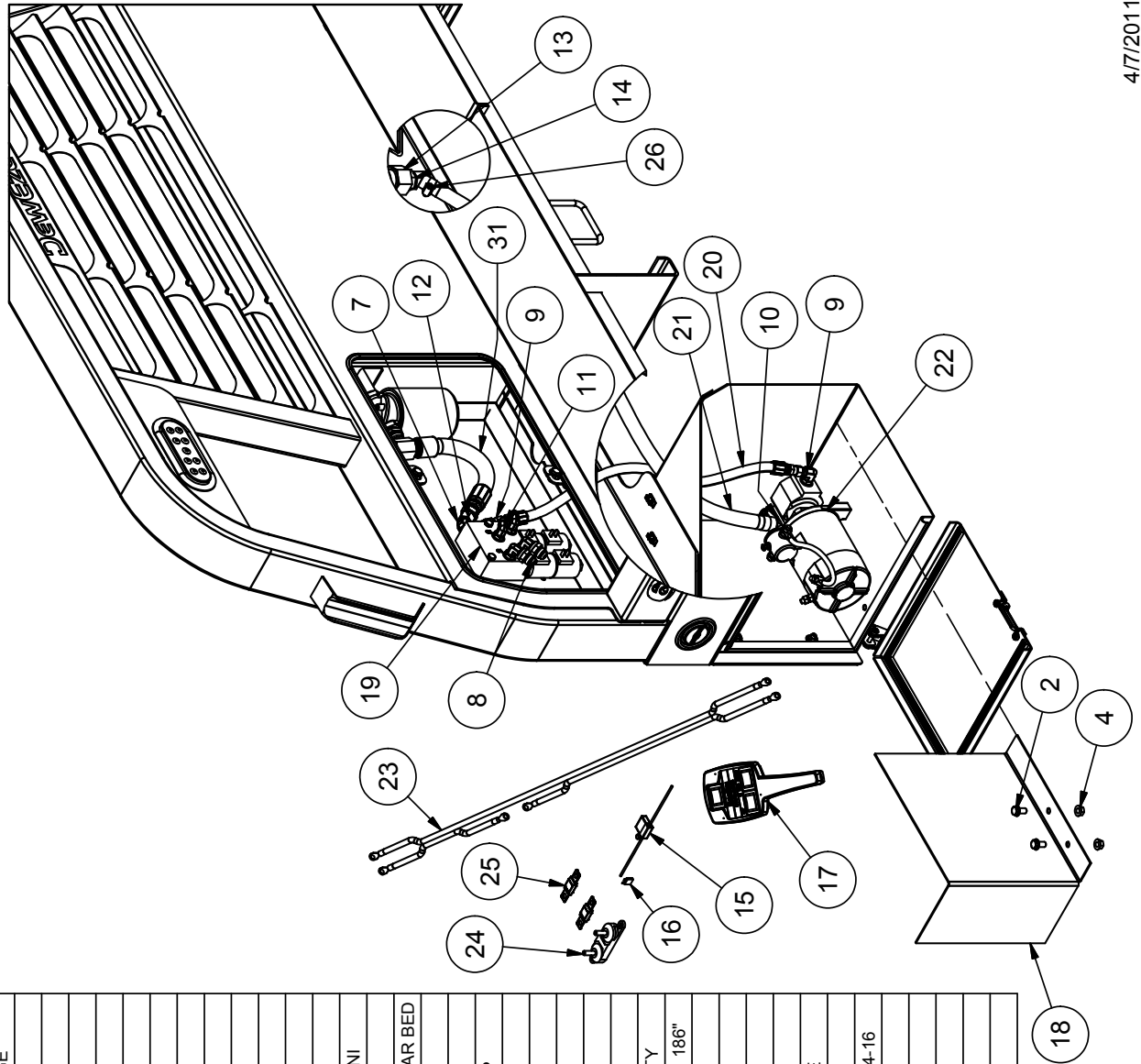


- 14) Attach 30-amp fuse holder to positive terminal on solenoid and then to red wire from hand control.
- 15) Run battery cables through hole in toolbox and attach to E/H motor as indicated (black cable to rear post).
- 16) Run battery cables along frame rail and attach black cable to negative terminal on battery.
- 17) Attach 200-amp fuse holder to positive battery terminal.



- 18) Insert 200-amp fuse.
- 19) Attach red cable from E/H on top of "ice cube" fuse. Install rubber cap.

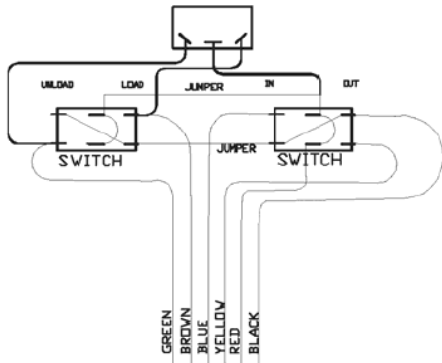
# E/H Power Kit



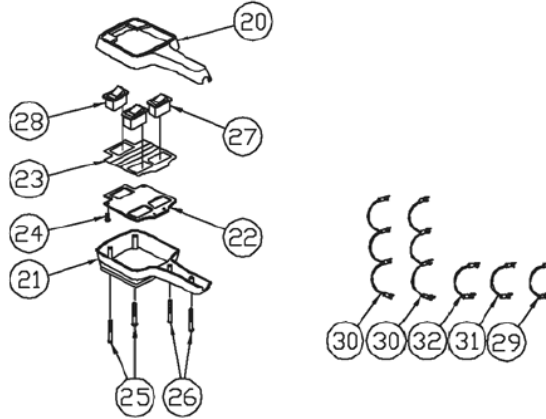
## Kit E/H Power, Part# 215005

ITEM	QTY	PART #	DESCRIPTION
1	2	110396	BOLT, .5/16-18 X 2.5
2	4	110437	BOLT, 3/8-16 X 0.75, WIZ FLANGE
3	2	110608	NUT, 5/16-18
4	2	110645	NUT, 3/8-16 WIZ FLANGE
5	2	110674	WASHER, 5/16" LOCK
6	4	110753	PLUG, 1/2" BUTTON PLASTIC
7	1	120087	ADAPTER, 6MB-8MJ45
8	2	120142	ADAPTER, 8MJ-6FJ
9	2	120149	ADAPTER, 6MB-6FPX90
10	1	120187	ADAPTER, 12BH-8MB90
11	4	120222	ADAPTER, 6MJ-6MB90
12	1	120457	ADAPTER, 8FJ-10MJ
13	1	120544	ADAPTER, 20MB-12FOR
14	1	120545	ADAPTER, 12BH-12MB 45°
15	1	132001	FUSE HOLDER, ATC, 14 GA., MINI
16	1	132002	FUSE, MINI 30 AMP
17	1	150027	HAND CONTROL & CABLE ASSY SPEAR BED
18	1	211353	E/H SHIELD
19	1	220492	VALVE, E/H FLATBED
20	1	220508	HOSE, .375 X 50.44, 6MP - 6MP
21	1	220603	HOSE, SUCTION, .75 X 54
22	1	230140	E/H MOTOR PUMP/UNIT
	1	210884	MOTOR
	1	220651	PUMP
	1	222006	SEAL KIT, PUMP
	1	232089	SOLENOID, 3 POLE, HEAVY DUTY
23	1	230153	BATTERY CABLE, 2GA TWIN LEAD, 186"
24	1	232001	FUSE BLOCK, AMG
25	2	232002	FUSE, 200 AMP
26	2	520099	CLAMP, HOSE #12 .75" NOT SHOWN
27	1	211387	EDGE MOLDING, REAR PLATE
28	1	230119	CABLE, SOLENOID GROUND
29	1	730008	TERMINAL, BUTT CONNECTOR, 14-16
30	1	730013	TERMINAL, RING, 5/16", 14-16
			NOT IN KIT
31	1	220691	RESERVOIR RETURN
	1	720041	FILTER HEAD
	1	720043	FILTER (WIX 51551)

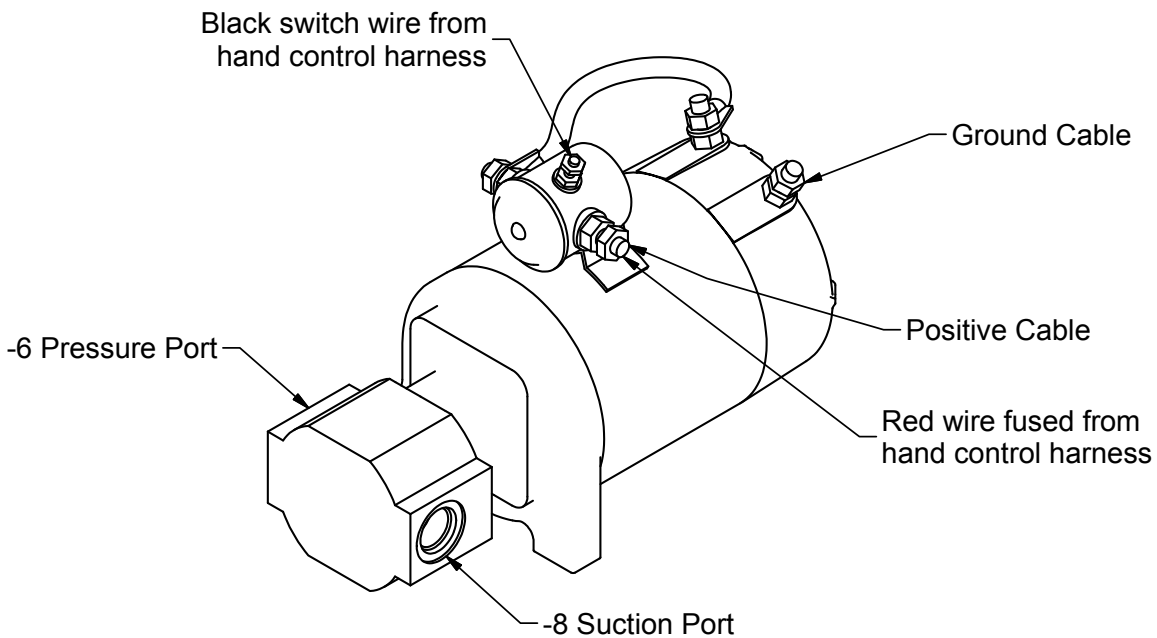
# E/H Power Kit



WIRING DIAGRAM  
SWITCHES SHOWN FROM BOTTOM

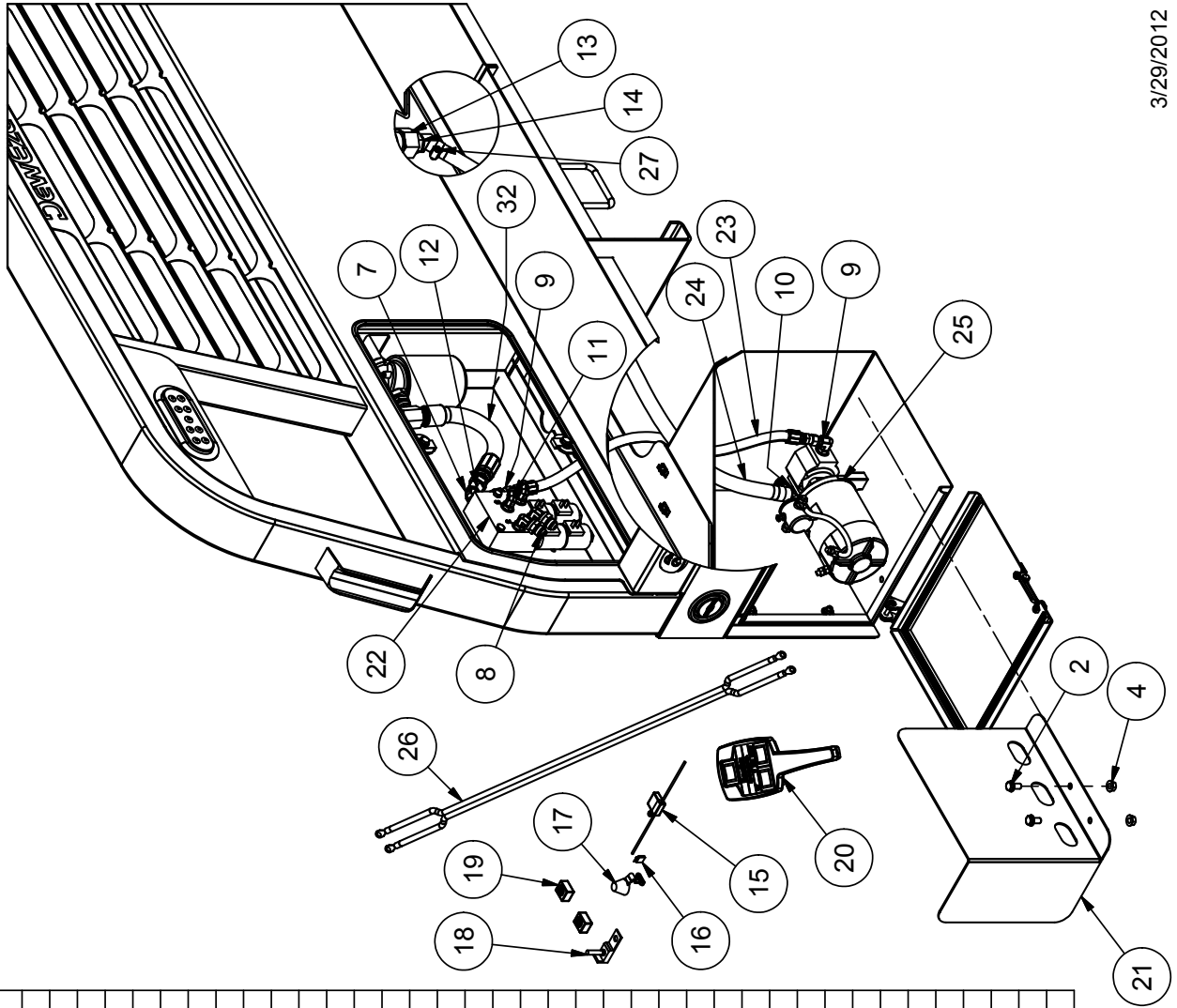


20	150001	TOP HOUSING (1)
21	150003	BOTTOM HOUSING (1)
22	150002	SWITCH PLATE (1)
23	150004	DECAL (1)
24	150013	SCREW (4)
25	150015	SCREW (2)
26	150014	SCREW (2)
27	130029	SWITCH DPDT (2)
28	130002	MOMENTARY SWITCH (1)
29	150029	JUMPER WIRE/HOT (1)
30	150030	JUMPER WIRE/HOT (2)
31	150031	JUMPER WIRE/GRN. (1)
32	150032	JUMPER WIRE/BRN. (1)



4/7/2011

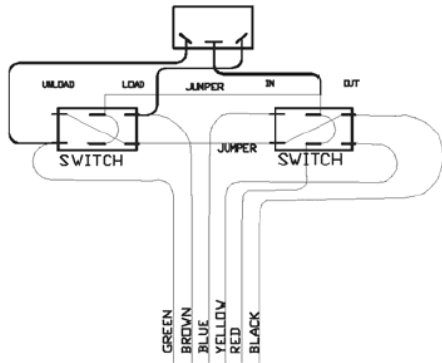
# E/H Power Kit



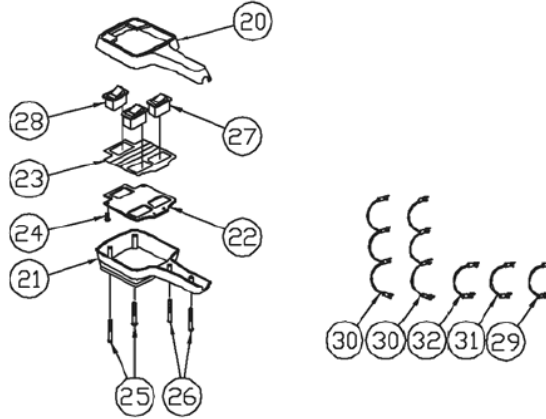
3/29/2012

Kit E/H Power, Part# 215005		PART #	DESCRIPTION
1	2	110396	BOLT, 5/16-18 X 2.5
2	4	110437	BOLT, 3/8-16 X 0.75, WIZ FLANGE
3	2	110608	NUT, 5/16-18
4	2	110645	NUT, 3/8-16 WIZ FLANGE
5	2	110674	WASHER, 5/16" LOCK
6	4	110753	PLUG, 1/2" BUTTON PLASTIC
7	1	120087	ADAPTER, 6MB-8MJ45
8	2	120142	ADAPTER, 8MJ-6FJ
9	2	120149	ADAPTER, 6MB-6FPX90
10	1	120187	ADAPTER, 12BH-8MB90
11	4	120222	ADAPTER, 6MJ-6MB90
12	1	120457	ADAPTER, 8FJ-10MJ
13	1	120544	ADAPTER, 20MB-12FOR
14	1	120545	ADAPTER, 12BH-12MB 45°
15	1	132001	FUSE HOLDER, ATC, 14 GA., MINI
16	1	132002	FUSE, MINI 30 AMP
17	1	132092	FUSE COVER, BUSS CFCOVER-1R
18	1	132093	FUSE HOLDER, BUSS CFBAR1-M8XSP
19	2	132094	FUSE 200 AMP, BUSS MRBF-200
20	1	150027	HAND CONTROL & CABLE ASSY E/H FLATBED
21	1	211353	E/H SHIELD
22	1	220492	VALVE, E/H FLATBED
23	1	220508	HOSE, .375 X 50.44, 6MP - 6MP
24	1	220603	HOSE, SUCTION, .75 X 54
25	1	230140	E/H MOTOR PUMP/UNIT
	1	210884	MOTOR
	1	220651	PUMP
	1	222006	SEAL KIT, PUMP
	1	232089	SOLENOID, 3 POLE, HEAVY DUTY
26	1	230155	BATTERY CABLE, 2GA TWIN LEAD, 186"
27	2	520099	CLAMP, HOSE #12 .75"
			NOT SHOWN
28	1	211387	EDGE MOLDING, REAR PLATE
29	1	230119	CABLE, SOLENOID GROUND
30	1	730008	TERMINAL, BUTT CONNECTOR, 14-16
31	1	730013	TERMINAL, RING, 5/16", 14-16
			NOT IN KIT
32	1	220691	RESERVOIR RETURN
	1	720041	FILTER HEAD
	1	720043	FILTER (WIX 51551)

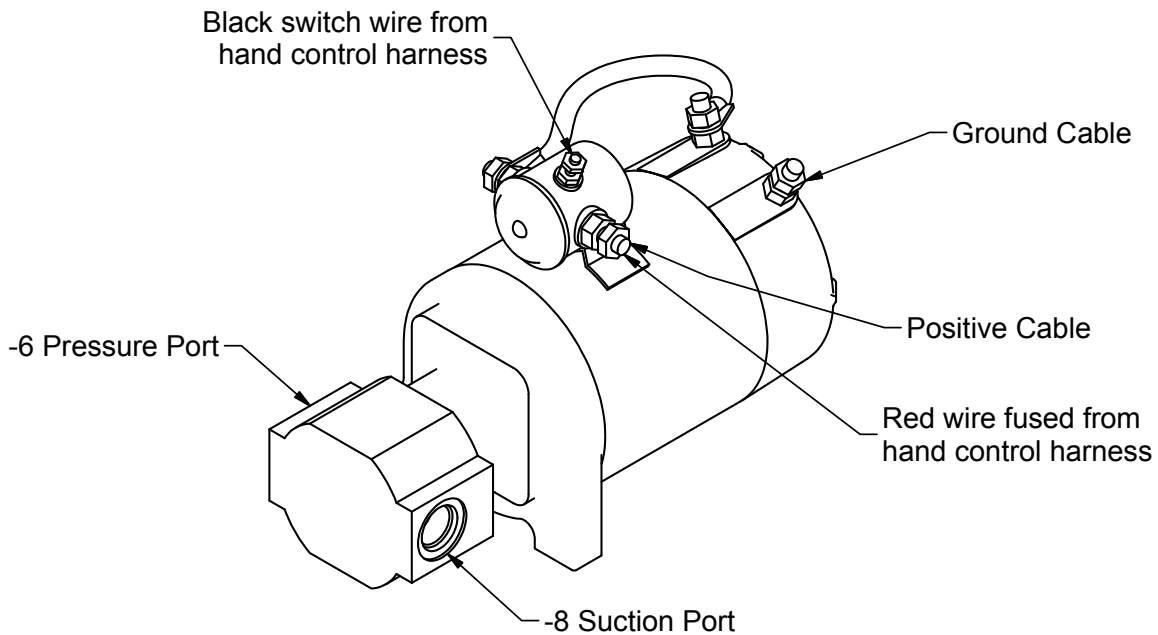
# E/H Power Kit



WIRING DIAGRAM  
SWITCHES SHOWN FROM BOTTOM

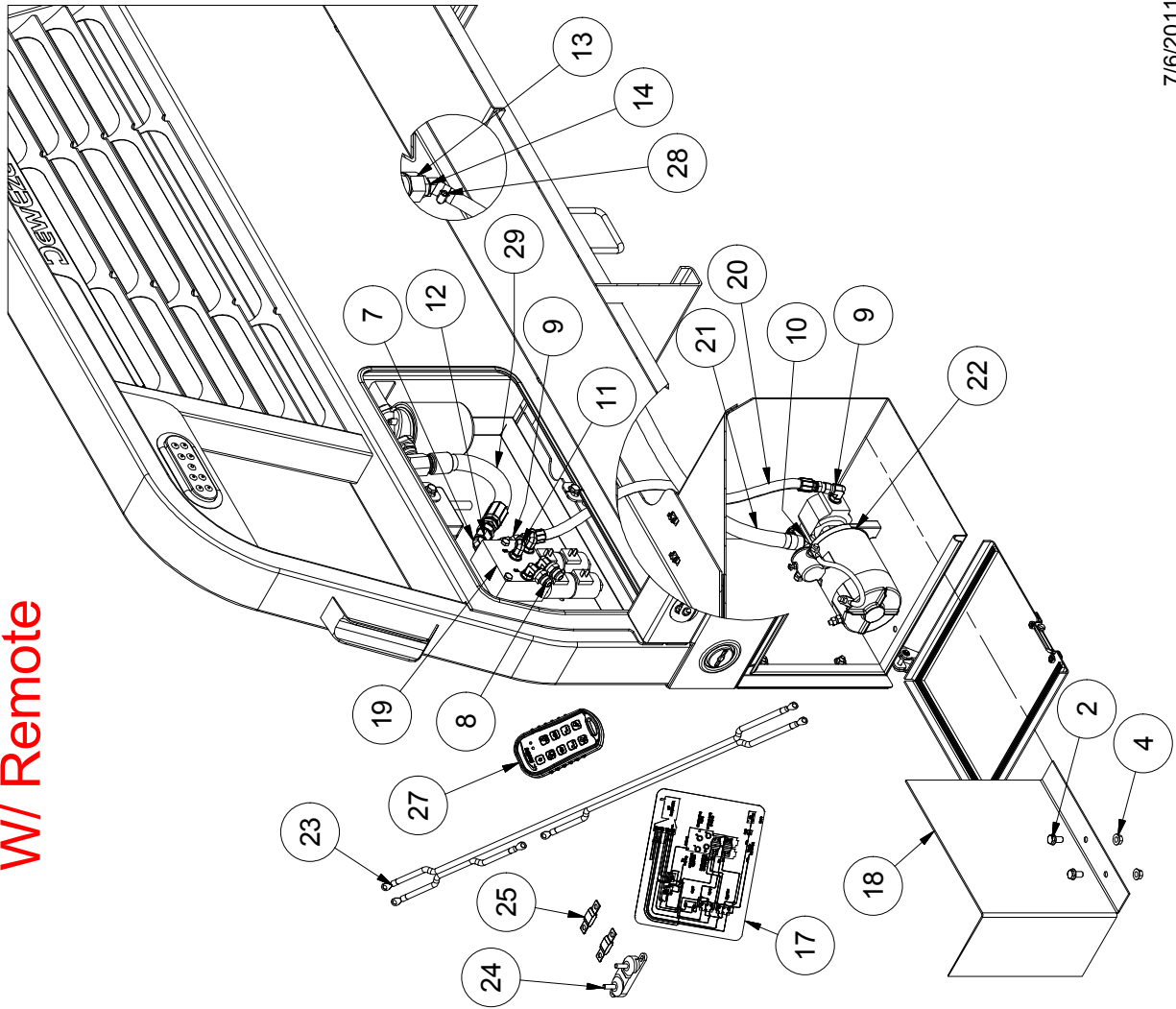


20	150001	TOP HOUSING (1)
21	150003	BOTTOM HOUSING (1)
22	150002	SWITCH PLATE (1)
23	150004	DECAL (1)
24	150013	SCREW (4)
25	150015	SCREW (2)
26	150014	SCREW (2)
27	130029	SWITCH DPDT (2)
28	130002	MOMENTARY SWITCH (1)
29	150029	JUMPER WIRE/HOT (1)
30	150030	JUMPER WIRE/HOT (2)
31	150031	JUMPER WIRE/GRN. (1)
32	150032	JUMPER WIRE/BRN. (1)



3/29/2012

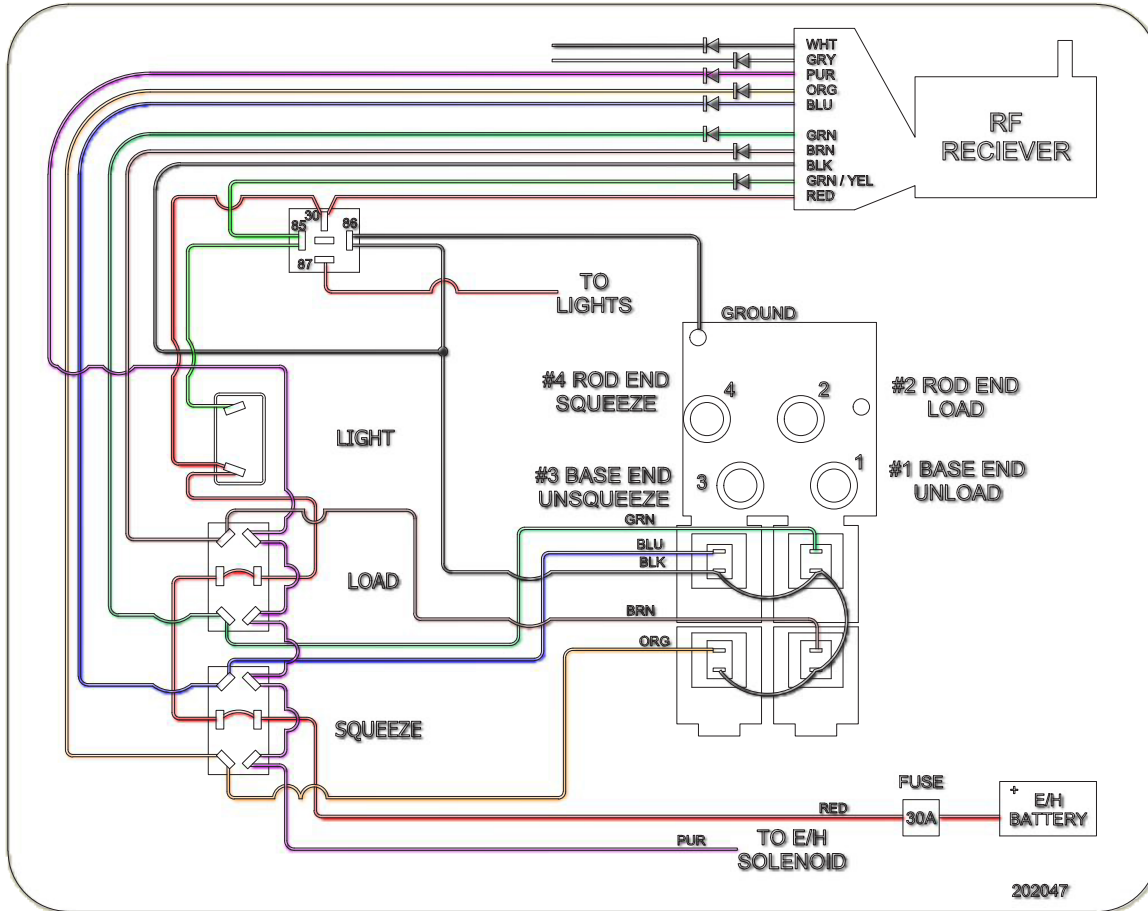
# E/H Power Kit W/ Remote



## Kit E/H Power, W/Remote Part# 205053

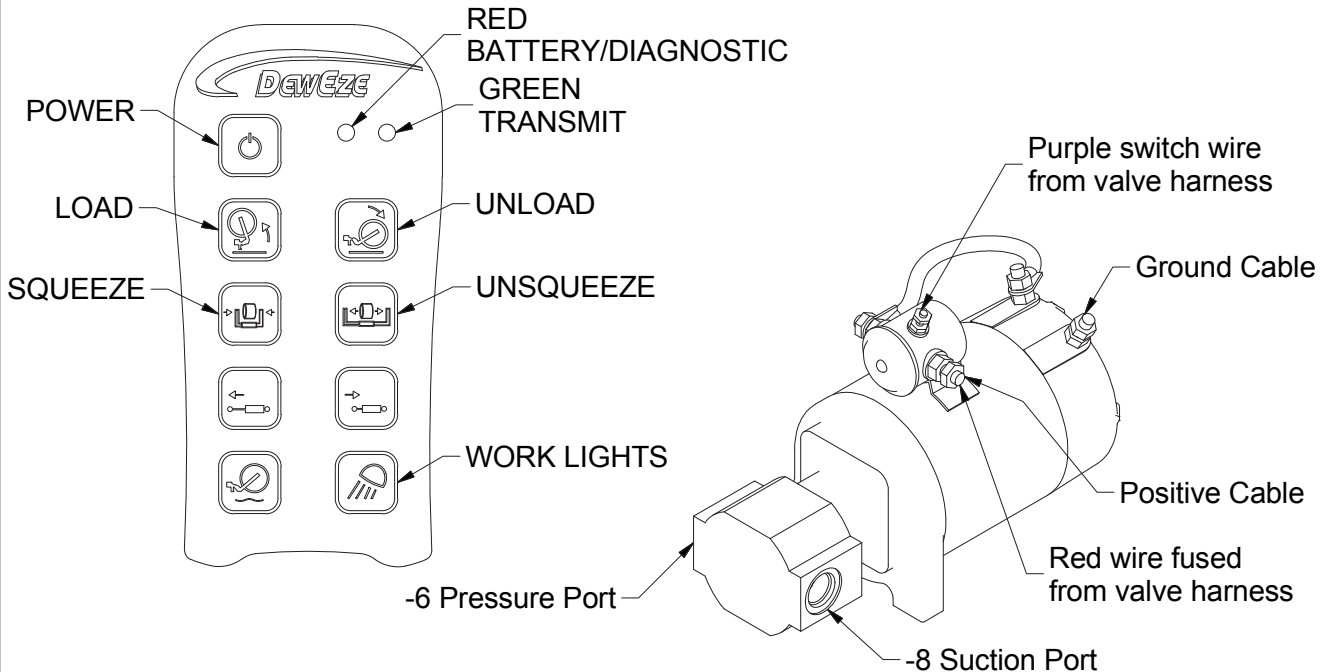
ITEM	QTY	PART #	DESCRIPTION
1	2	110396	BOLT, 5/16-18 X 2.5
2	4	110437	BOLT, 3/8-16 X 0.75, WIZ FLANGE
3	2	110608	NUT, 5/16-18
4	2	110645	NUT, 3/8-16 WIZ FLANGE
5	2	110674	WASHER, 5/16" LOCK
6	2	110753	PLUG, 1/2" BUTTON PLASTIC
7	1	120087	ADAPTER, 6MB-8MJ45
8	2	120142	ADAPTER, 8MJ-6FJ
9	2	120149	ADAPTER, 6MB-6FPX90
10	1	120187	ADAPTER, 12BH-8MB90
11	4	120222	ADAPTER, 6MJ-6MB90
12	1	120457	ADAPTER, 8FJ-10MJ
13	1	120544	ADAPTER, 20MB-12FOR
14	1	120545	ADAPTER, 12BH-12MB 45°
15	2	132035	SWITCH BOOT
16	1	202003	DECAL, SWITCH IDENTIFICATION
17	1	202047	DECAL, E/H WIRING DIAGRAM, KAR-TECH
18	1	211353	E/H SHIELD
19	1	220492	VALVE, E/H FLATBED
20	1	220508	HOSE, .375 X 50.44, 6MP - 6MP
21	1	220603	HOSE, SUCTION, .75 X 54
22	1	230140	E/H MOTOR PUMP/UNIT
	1	210884	MOTOR
	1	220651	PUMP
	1	222006	SEAL KIT, PUMP
	1	232089	SOLENOID, 3 POLE, HEAVY DUTY
23	1	230153	BATTERY CABLE, 2GA TWIN LEAD, 186"
24	1	232001	FUSE BLOCK, AMG
25	2	232002	FUSE, 200 AMP
26	2	232086	SWITCH, DPDT, M, 6 PIN, PUSH ON
27	1	233003	Transmitter & Receiver, Kar-Tech
28	2	520099	CLAMP, HOSE #12 .75"
			NOT SHOWN
	3	110119	NUT, 10-24 LOCK
	3	110264	BOLT, 10-24 X .5 STAINLESS, PHILLIPS
	1	211387	EDGE MOLDING, REAR PLATE
	1	232090	HARNES, E/H WIRELESS, KAR-TECH
			NOT IN KIT
29	1	220691	RESERVOIR RETURN
	1	720041	FILTER HEAD
	1	720043	FILTER (WIX 51551)

# E/H Wiring, Kar-Tech Remote



Decal Part# 202047

Harness Part# 232090

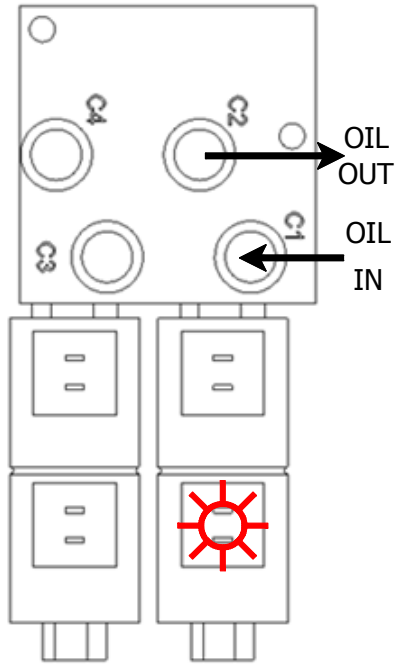


4/12/2011

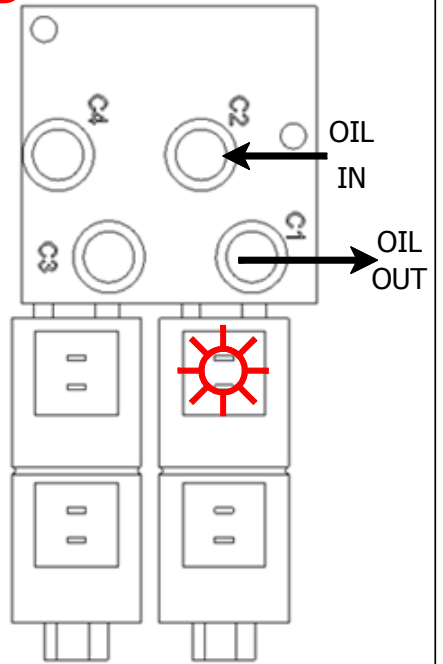


 SOLENOID FIRES

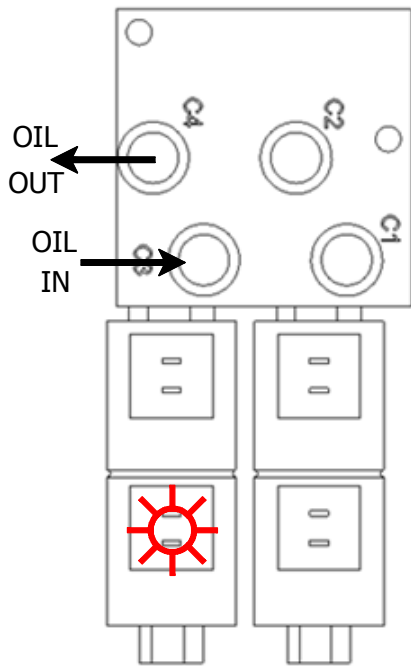
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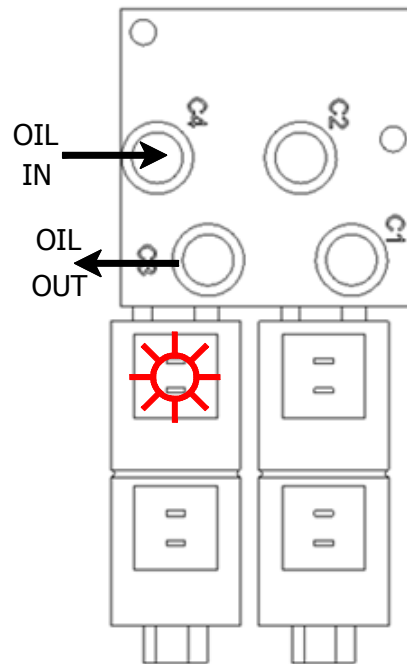
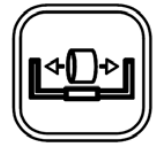
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**SQUEEZE**



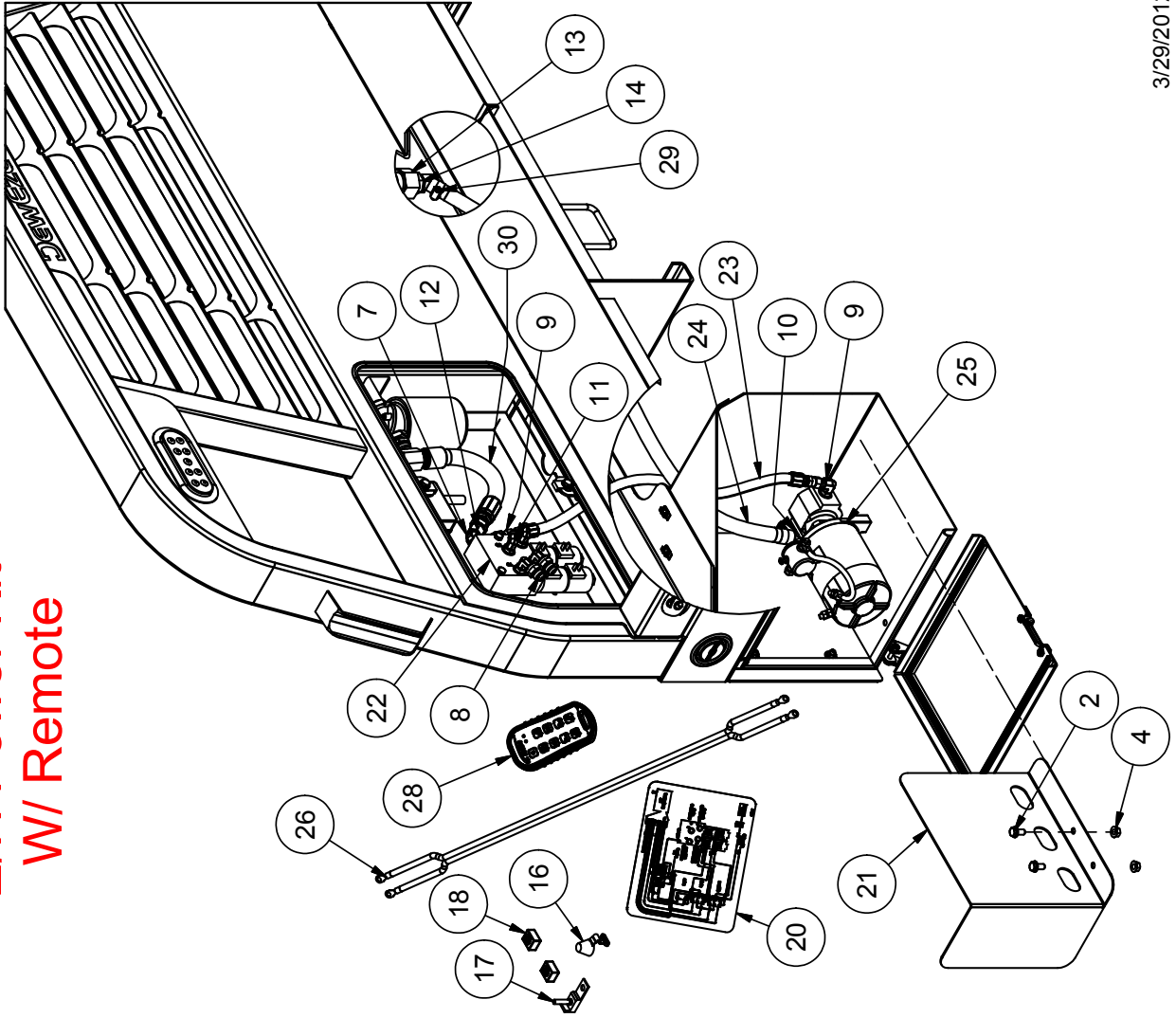
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4/12/2011

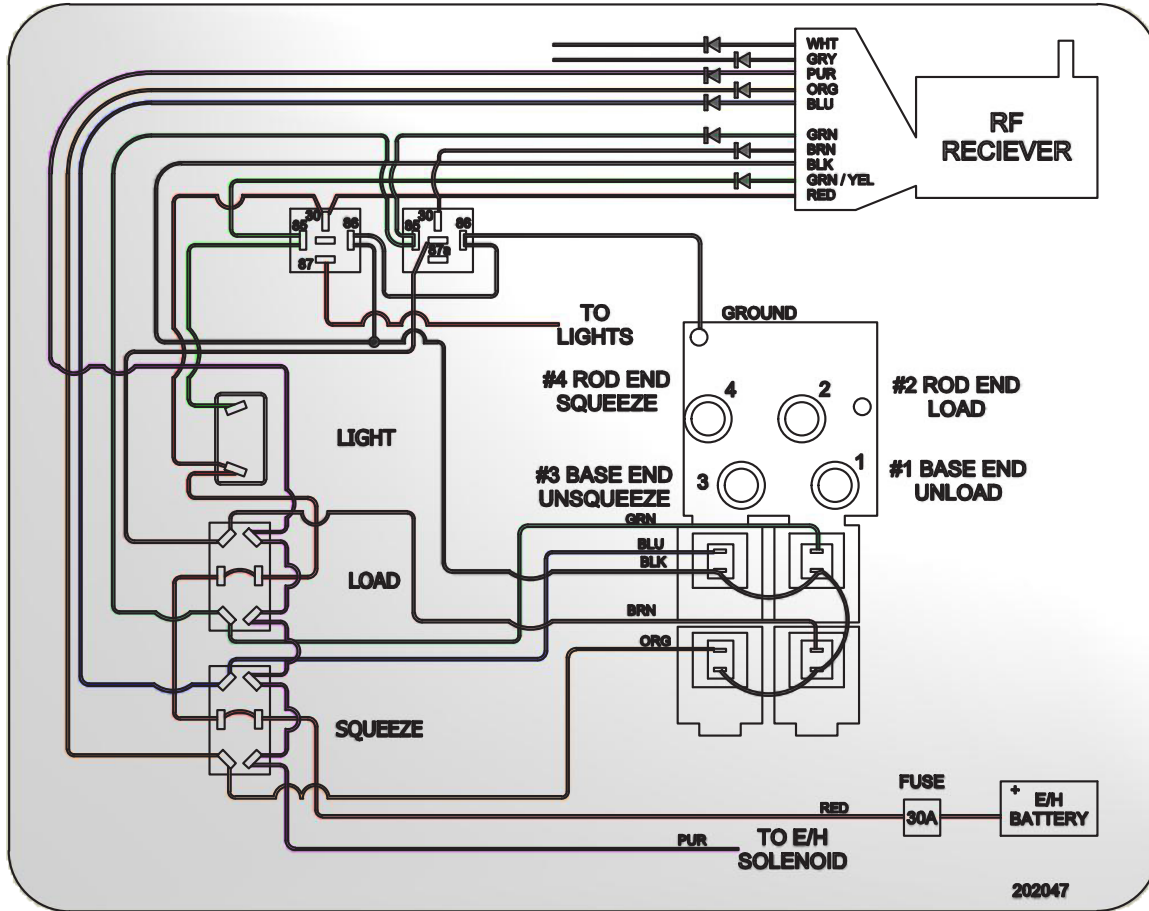


# E/H Power Kit W/ Remote



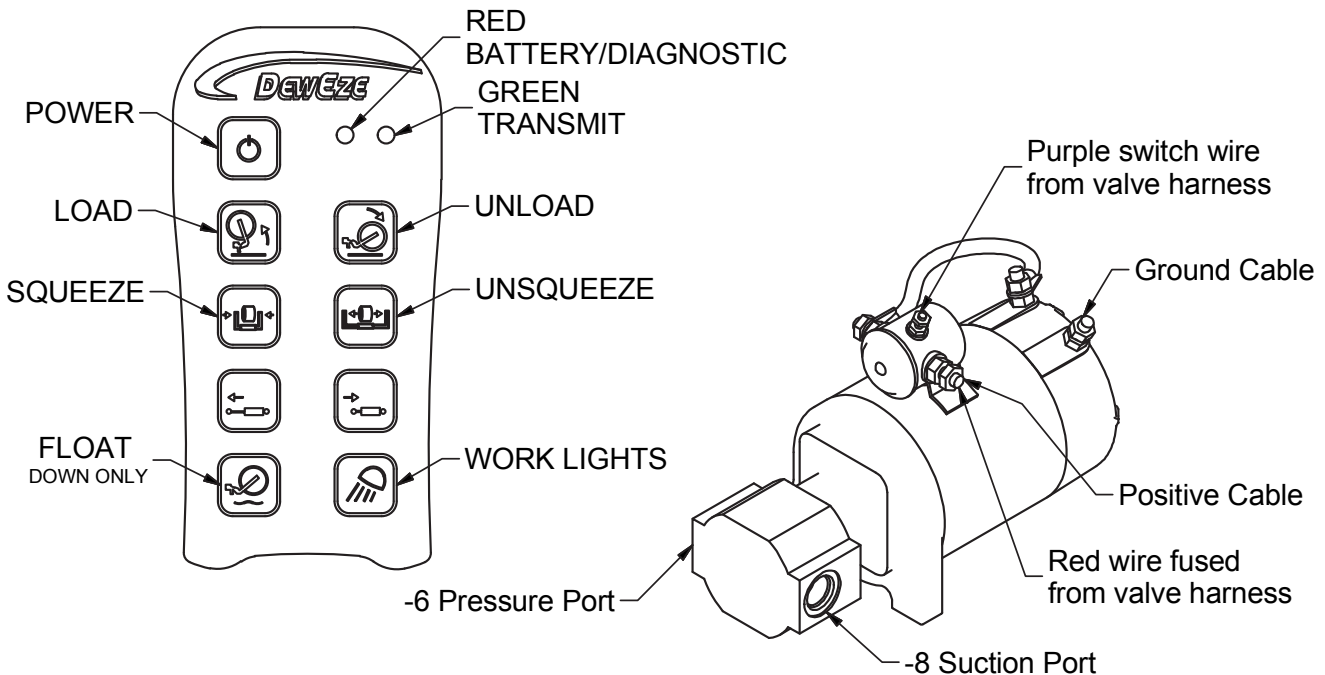
Kit E/H Power, W/Remote Part# 205053		
ITEM	QTY	PART # DESCRIPTION
1	2	110396 BOLT, 5/16-18 X 2.5
2	4	110437 BOLT, 3/8-16 X 0.75, W/IZ FLANGE
3	2	110608 NUT, 5/16-18
4	2	110645 NUT, 3/8-16 W/IZ FLANGE
5	2	110674 WASHER, 5/16" LOCK
6	2	110753 PLUG, 1/2" BUTTON PLASTIC
7	1	120087 ADAPTER, 6MB-8MJ45
8	2	120142 ADAPTER, 8MJ-6FJ
9	2	120149 ADAPTER, 6MB-6FPX90
10	1	120187 ADAPTER, 12BH-8MB90
11	4	120222 ADAPTER, 6MJ-6MB90
12	1	120457 ADAPTER, 8FJ-10MJ
13	1	120544 ADAPTER, 20MB-12FOR
14	1	120545 ADAPTER, 12BH-12MB 45°
15	2	132035 SWITCH BOOT
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	1	202003 DECAL, SWITCH IDENTIFICATION
20	1	202047 DECAL, E/H WIRING DIAGRAM, KAR-TECH
21	1	211353 E/H SHIELD
22	1	220492 VALVE, E/H FLATBED
23	1	220508 HOSE, .375 X 50.44, 6MP - 6MP
24	1	220603 HOSE, SUCTION, .75 X 54
25	1	230140 E/H MOTOR PUMP/UNIT
	1	210884 MOTOR
	1	220651 PUMP
	1	222006 SEAL KIT, PUMP
	1	232089 SOLENOID, 3 POLE, HEAVY DUTY
26	1	230155 BATTERY CABLE, 2GA TWIN LEAD, 186"
27	2	232086 SWITCH, DPDT, M, 6 PIN, PUSH ON
28	1	233003 Transmitter & Receiver, Kar-Tech
29	2	520099 CLAMP, HOSE #12 .75"
		NOT SHOWN
	3	110119 NUT, 10-24 LOCK
	3	110264 BOLT, 10-24 X .5 STAINLESS, PHILLIPS
	1	211387 EDGE MOLDING, REAR PLATE
	1	232090 HARNESS, E/H WIRELESS, KAR-TECH
		NOT IN KIT
30	1	220691 RESERVOIR RETURN
	1	720041 FILTER HEAD
	1	720043 FILTER (WIX 51551)

# E/H Wiring, Kar-Tech Remote

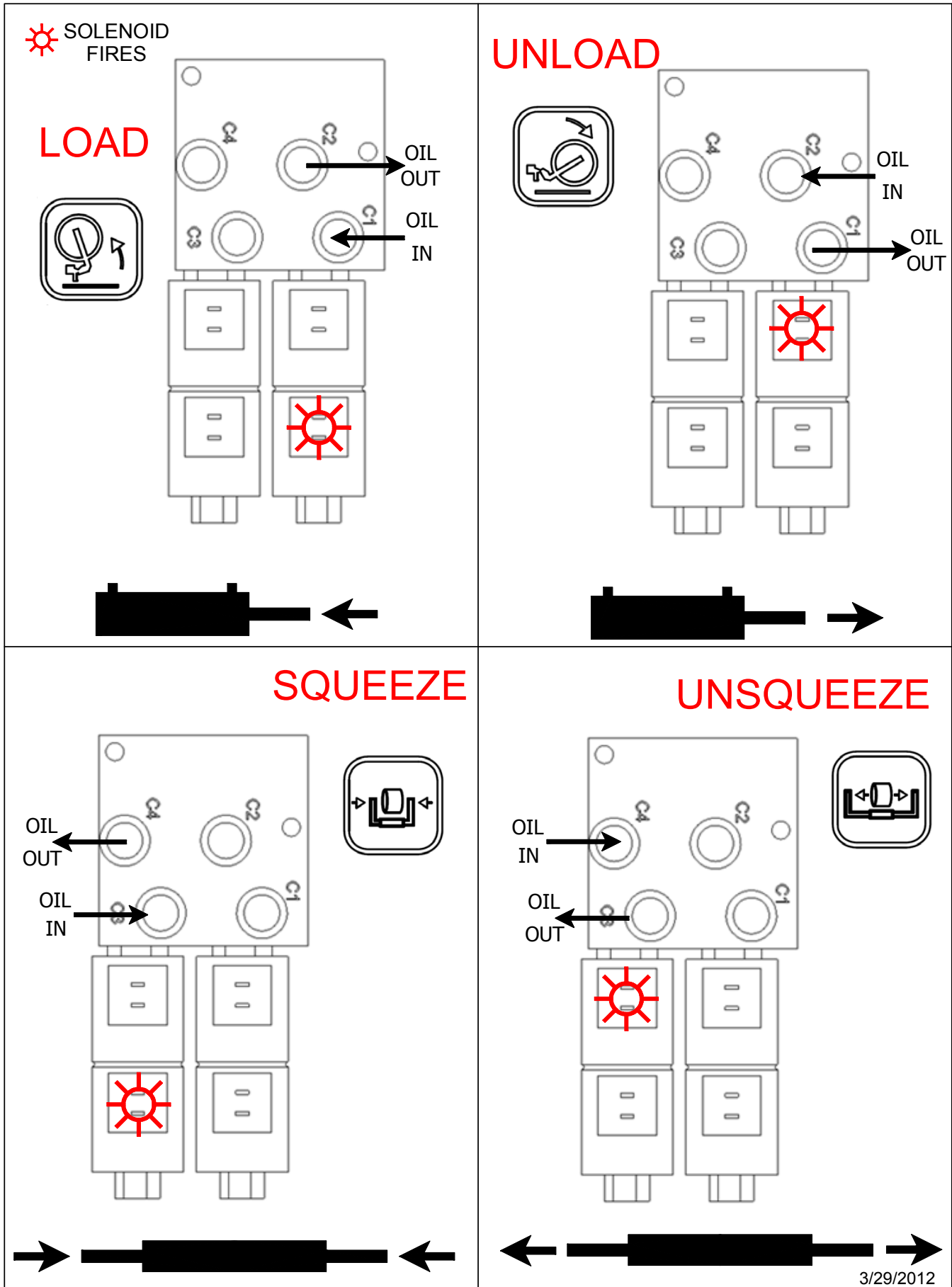


Decal Part# 202047

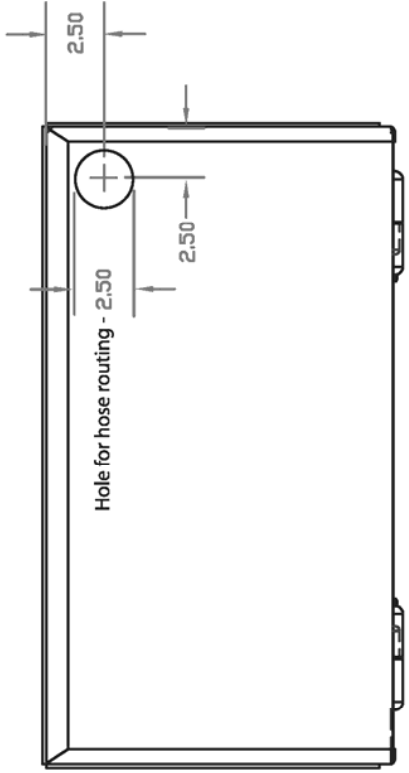
Harness Part# 232090



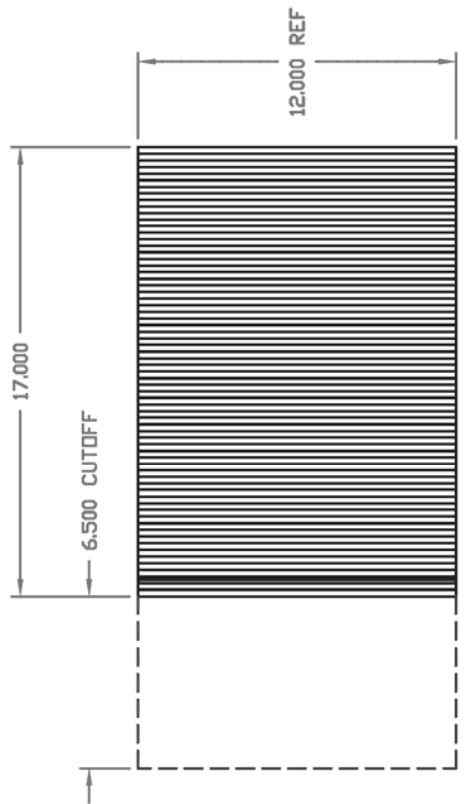
3/29/2012



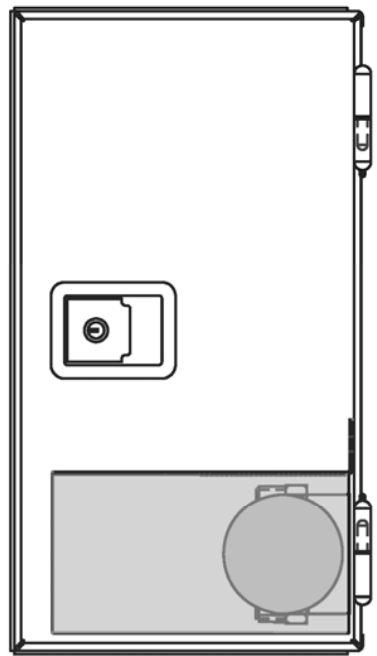
DEWEZE E/H KIT - 30" TOOLBOX MODIFICATION



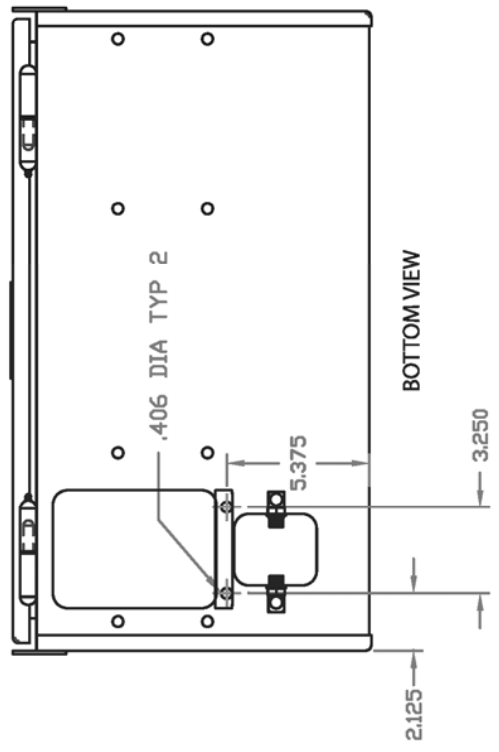
REAR VIEW



TOOL BOX MAT MODIFICATION



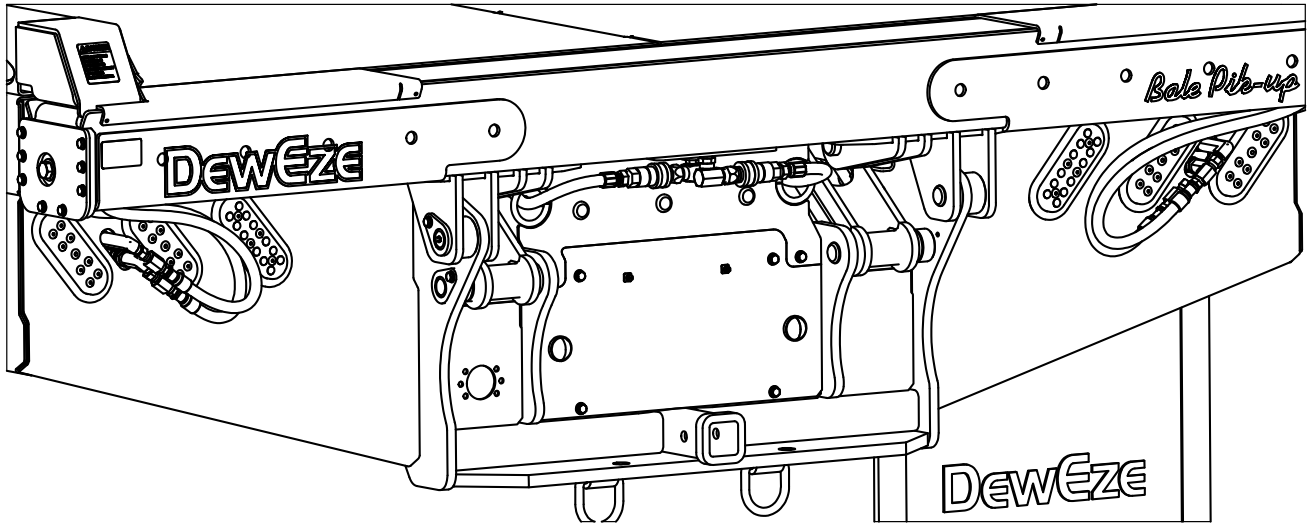
FRONT VIEW



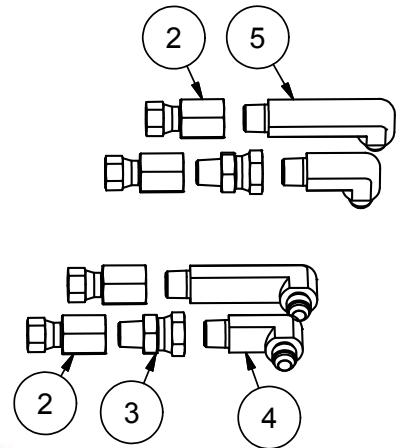
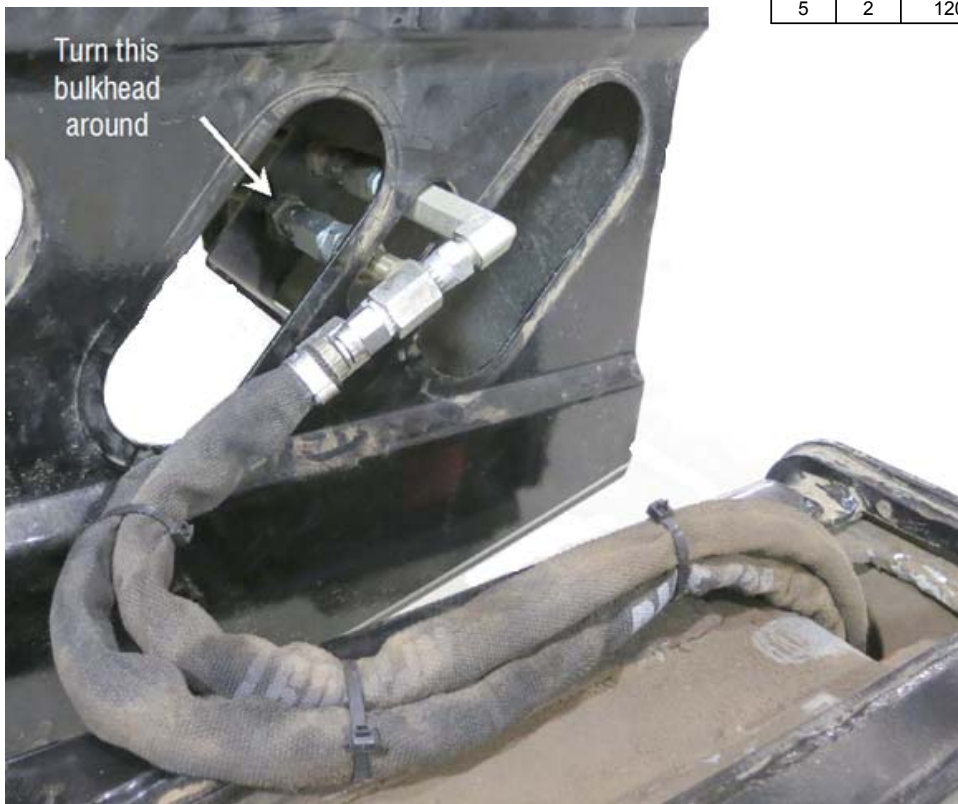
BOTTOM VIEW

# XRM Adapter Update

## Kit # 205068



Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	6	100578	Cable Tie 14" Black 50 Lb Tens
2	4	120123	ADAPTER, 6FP-6FJX
3	2	120271	ADAPTER, 6MP-6FPX
4	2	120596	ADAPTER, 6MJ-6MP LONG 90
5	2	120597	ADAPTER, 6MJ-6MP XX-LONG 90



5/11/2012







Harper Industries, Inc.  
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Toll-Free: 800-835-1042  
Fax: 620-896-7129

Website: [www.harperindustries.com](http://www.harperindustries.com)

E-mail: [info@harperindustries.com](mailto:info@harperindustries.com)

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**400/500**



