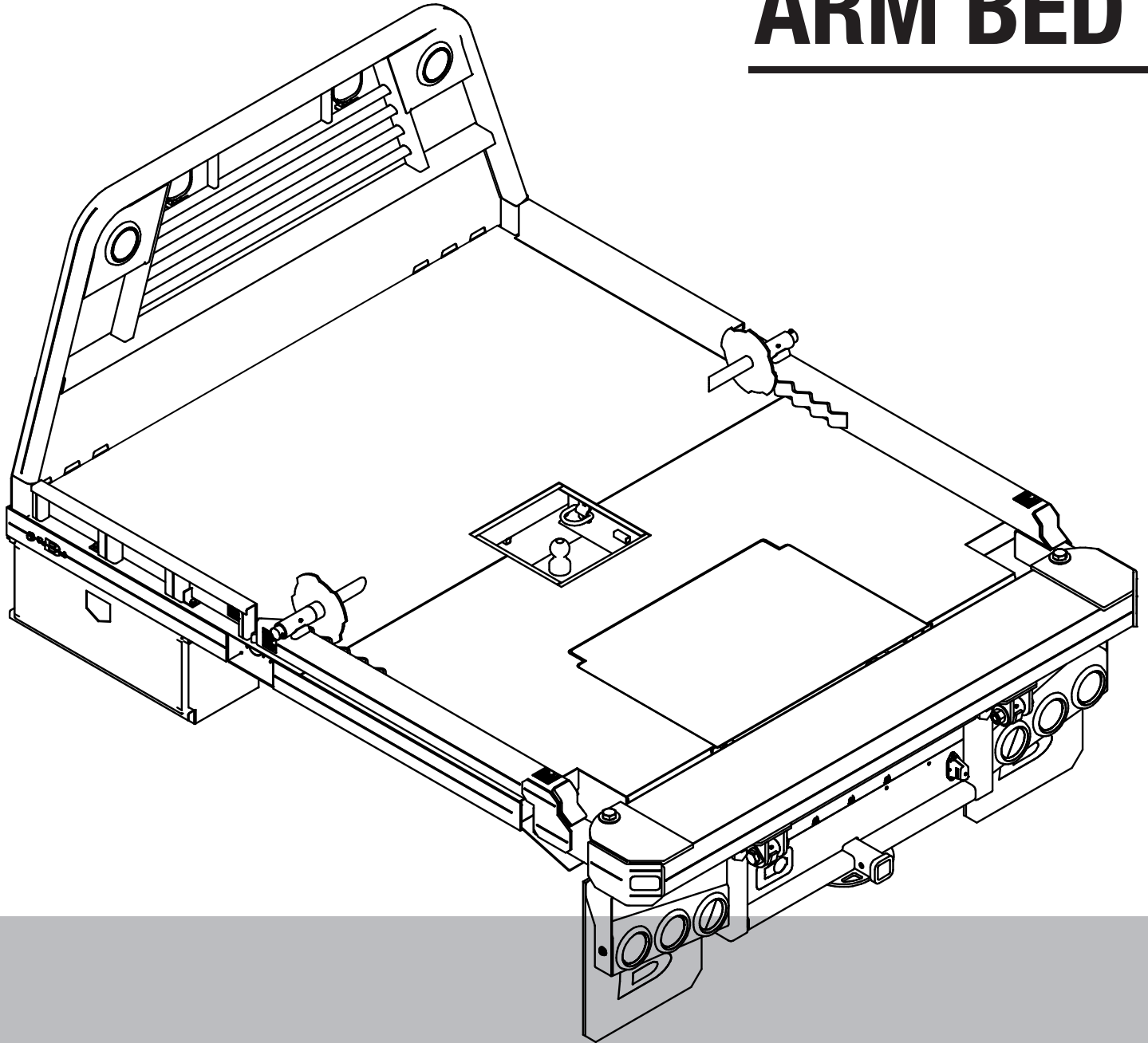


ARM BED



Butler Beds

Thank you for purchasing a Butler Arm Bed.

TO THE OWNER OR OPERATOR:

As with all Harper products, the Butler Beds have been thoroughly tested and built to provide a sturdy, dependable product. The Arm Bed 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 Butler Arm Bed. Read and understand the manual thoroughly before operation to avoid damage to the unit or injury to the operator or bystanders.

An Arm Bed 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.

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(620) 896-7381 • **Fax** (620) 896-7129

Toll Free 800-596-2464

Email info@butlerbeds.com

Website www.butlerbeds.com

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Statement of Warranty

Harper Industries, Inc. (HII) warrants to each purchaser of a new Butler Bed from an authorized dealer or representative, that such equipment is free of manufacturer's defects in workmanship and materials which appear while in normal service for a period of ONE YEAR commencing with delivery to the original user.

The obligation of HII 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 Butler Bed accessories) while in the possession of the consumer.

Warranty is limited to parts, labor and ground freight delivery of replacement parts. Labor for repair to hydraulic and electrical power systems from HII installed with bed purchase/installation is covered under this warranty. HII 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.

This warranty does not apply to parts subjected to misuse, abuse, alteration, improper or inadequate maintenance, or normal wear.

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. HII makes no other express warranty, nor is anyone authorized to make any on behalf of HII.

For further information please contact your nearest Butler Bed dealer.

RECORDS

Date of Purchase _____ / _____ / _____

Dealer's Name _____

Dealer's Phone _____

Serial Number Bed _____

Serial Number Pump _____

**SCAN
& REGISTER**

- Scan the QR code with your smart phone
- Register the details of your new Butler Arm Bed
- We'll send you a new hat to welcome you to the Butler family



SCAN FOR YOUR FREE BUTLER HAT!
(Remove sticker after registering)

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Specifications

Butler Arm Beds are specifically designed to transport and feed round hay bales.

Model Specifications

MODEL	A84X84	A84X101	A84X108	A84X113	A94X101	A94X108	A94X113
WIDTH	7'0"	7'0"	7'0"	7'0"	7'10"	7'10"	7'10"
LENGTH	7'0"	8'5"	9'0"	9'5"	8'5"	9'0"	9'5"

A94X132	A94X137	A96X84	A96X101	A96X108	A96X113	A96X132	A96X137
7'10"	7'10"	8'0"	8'0"	8'0"	8'0"	8'0"	8'0"
11'0"	11'5"	7'0"	8'5"	9'0"	9'5"	11'0"	11'5"

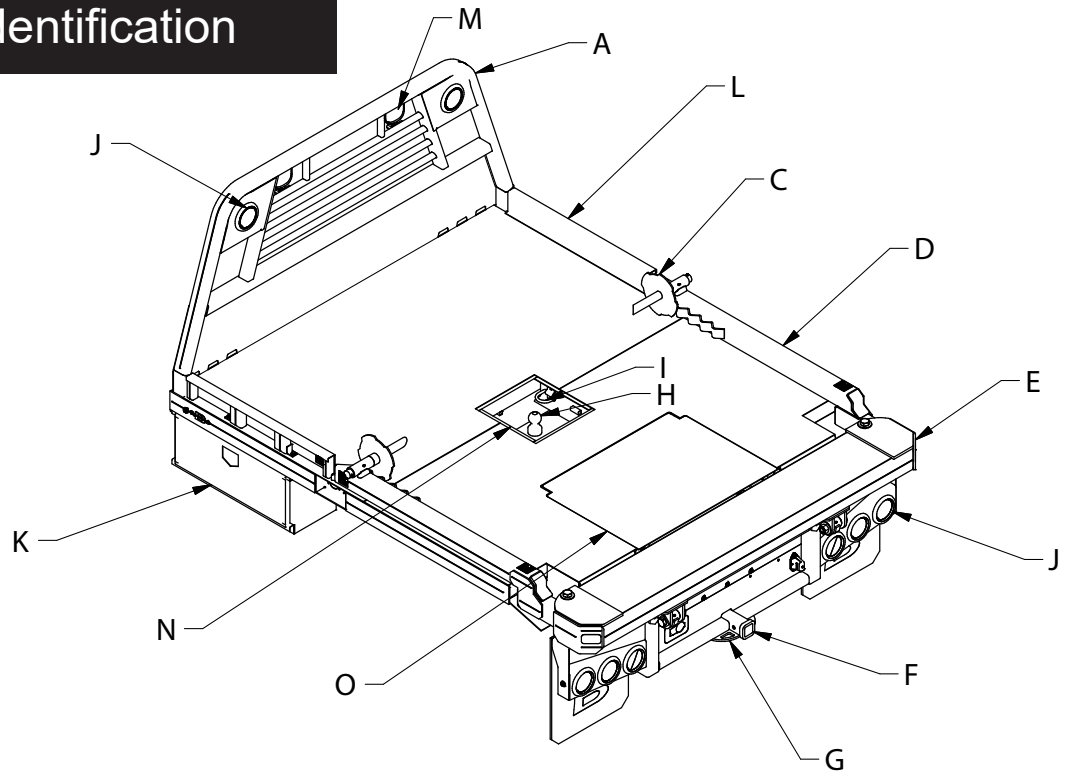
Hydraulic System Specifications

HYDRAULIC SYSTEM	Electric over hydraulic
SYSTEM PRESSURE	2800 psi
FLOW	3.32 gpm @ 500 psi: 1.38 gpm @ 2750 psi
OIL RESERVOIR CAPACITY	10 quarts ATF fluid (Dextron III)
CYLINDER, SQUEEZE	1.125" X 2.5" X 6.0" Rephasing 1.125" X 2.75" X 6.0" Rephasing
CYLINDER, LIFT	1.25" X 3" X 20"
LIFT CAPACITY (centered)	2,500 lbs.

Protective Coating Specifications

PAINT	Heat-cured, polyurethane based paint
-------	--------------------------------------

Feature Identification



A. Headache Rack – protects the rear pickup window.

B. Across-the-bed Toolbox (not pictured)

C. Spinners – used to unroll hay.

D. Squeeze 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.

E. Crosstube or Pivot – houses the squeeze cylinder and guides the squeeze arms.

F. Hitch Plate – allows for a 2" square receiver hitch and has holes for hitch pins.

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

H. Gooseneck Hitch – located under a cover plate in the middle of the bed or as a pop up ball.

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

J. Lights – LED lighting for stop-tail-turn. (Optional lights in headache rack)

K. Toolboxes – mount under front of bed on both sides. The Electric/Hydraulic Power unit mounts inside the passenger side toolbox.

L. Side rails or Dummy Arms – serve as side rail along with squeeze arms.

M. Work Lights (optional) – lights can be when working at night.

! SAFETY WARNING! !
Do not stand under the squeeze arms when operating the bale pickup unit, even when arms are empty.

Safety Guidelines

Operator safety is of utmost 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.

Arm Bed 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 arm bed's lifting capability may exceed the truck's load capacity in some instances.



Hydraulic Safety

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



Operating Instructions

Loading Instructions

- Back truck up to bale with arms open wide.
- Center spikes (spinners) as close as possible to center of bale.
- Squeeze the bale by pushing the IN button on the controller.
- Lift the bale by pushing the UP button on the controller.
- If you are loading 2 bales, release bale once backed up to the 2nd bale.

 **CAUTION** 
DO NOT DROP THE BALE ON THE TRUCK. Damage to the frame and suspension can result from a dropped bale.

- Repeat to load a second bale.
- Maintain pressure on second bale during transport.

 **CAUTION** 
When hauling one bale make sure there is down pressure on the bale to keep it from moving. Do not release the arms. Maintain constant steady pressure. When hauling two bales make sure the first bale is as far forward as possible (Fig. 1). Carrying a bale behind the bed (Fig. 2) places excessive stress on the cylinder, linkage, and pins.

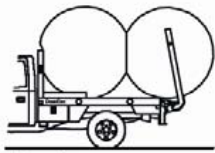


Fig. 1



Fig. 2



CAUTION



Do not exceed the GVRW of the truck.

Unloading Instructions

- To unload one bale, push the IN button to maintain squeeze pressure. Push the DOWN button to lower the bale. Once bale is on the ground push the OUT button to release pressure.
- When unloading 2 bales, unload first bale as stated above. Raise arms to remaining bale on truck. Squeeze the bale as close to center as possible. To get a center grip on bale you may need to release the bale and squeeze it again near the center of the bale while it is still on the truck bed.

NOTE: When hauling multiple bales short distances, motor will become hot. Allow motor to cool down in between loading cycles. General rule of thumb is 25% motor on, 75% motor off. This equals about 2 ½ minutes “motor on” in a 10 minute period. Opening the tool box lid may help with the cool down.

Unrolling Instructions

- Position the spinner in the center of the bale.
- Lift the bale off the ground and cut the wrap/string off.
- Lower the bale to make contact with the ground.
- Slowly drive forward letting the ground contact to unroll the bale.
- Bump the down switch to maintain ground contact with the bale.

Storing Of Arms

- Raise arms up to bed. Arms must touch bed before bringing arms to down position. Squeeze to stop.

Arm Bed Winter Use

Keep pivot area clear of debris (hay, foreign material, etc...). Check periodically. Clear if necessary. Frozen hay and debris can cause excessive pressure put on metal parts resulting in operational issues.

Maintenance

Check Daily or Before Use

- Check the hydraulic oil level. Keep the level to “FULL” on the dipstick.
- 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

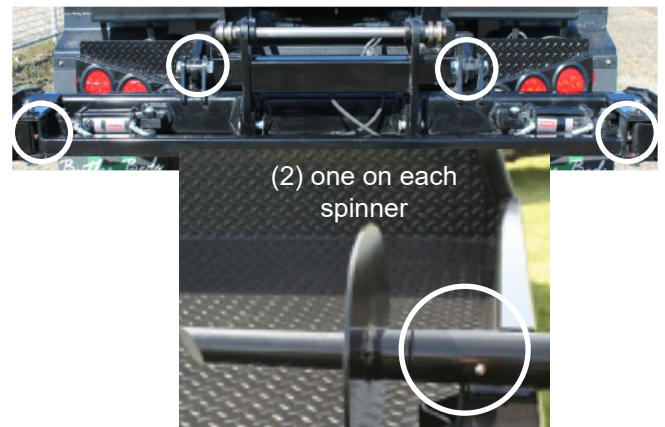
- Grease all (6) zerks once a week or more often during heavy use to keep arm bed operating at its best.
- Grease arms, spinners, and pivots as shown in the picture below.



SAFETY WARNING!

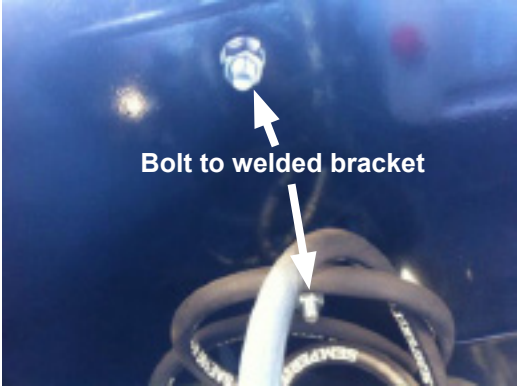


Use extreme caution when greasing the flatbed. Completely lower arms to expose rear zerks and turn off ignition.

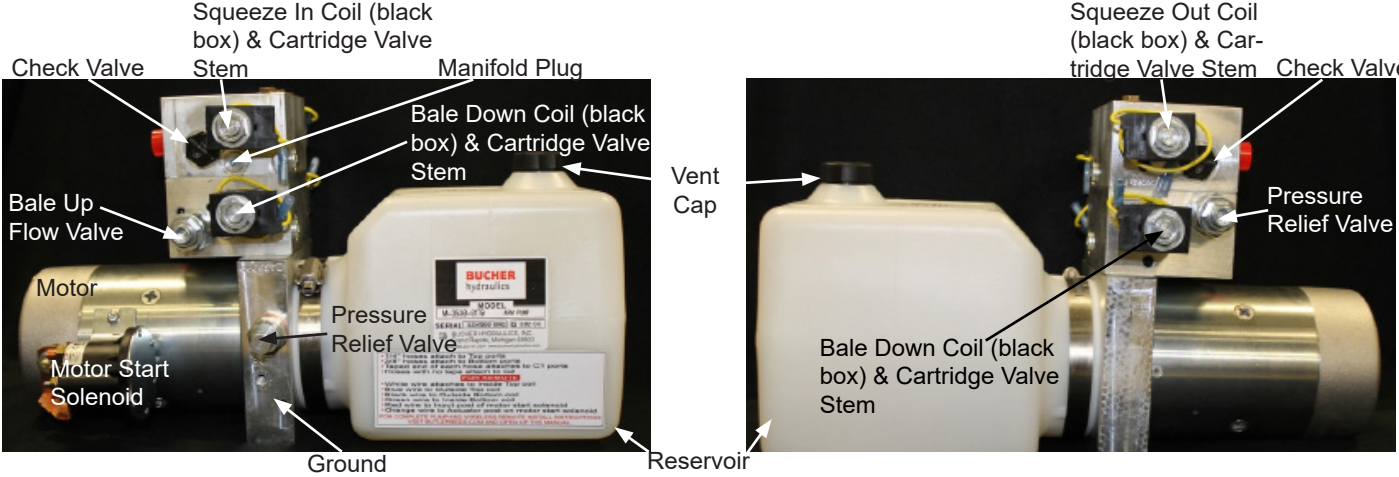


Toolbox Mounting

- Mount the box with the two bolt holes on the short end towards the front. Bolt the top of box to the welded bracket under the bed. All bolts are 3/8".

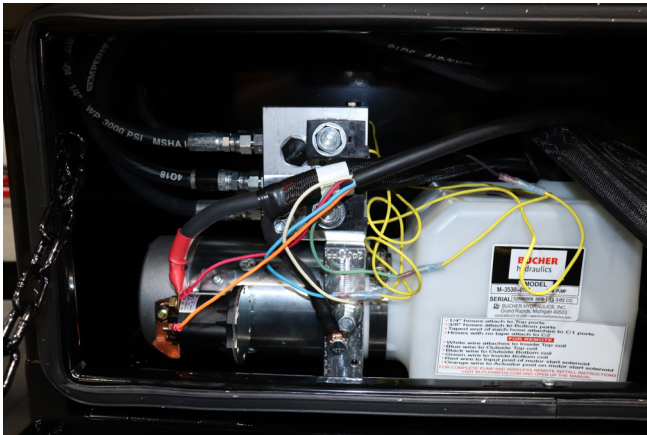


Power Unit Identification



Mounting of Power Unit

Place power unit in passenger side box with the reservoir facing the cab of the truck. Position the holes in bottom of pump block over holes in bottom of box. Using 3/8" bolts, secure the pump to the box. Run the hydraulic hoses through the rubber grommet in the box. The power unit operates best with a two battery set up. If needed, the second battery can be mounted next to the power unit in the tool box.



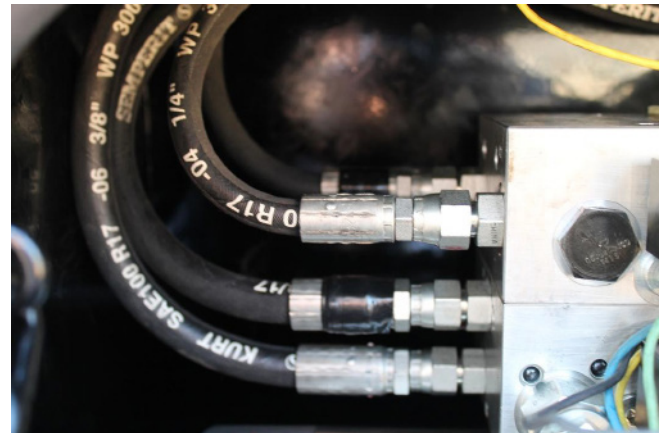
Hydraulics

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. Check 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.

Hydraulic Hose Connections

- 1/4" Hoses (squeeze) attach to top valve body. Taped hose screws into C1.
- 3/8" Hoses (lift) attach to bottom valve body. Taped hose screws into C1.
- After filling with ATF, synchronize arms (Arm Bed) and remove air from lines (Arm & Spike Bed). See Trouble Shooting.

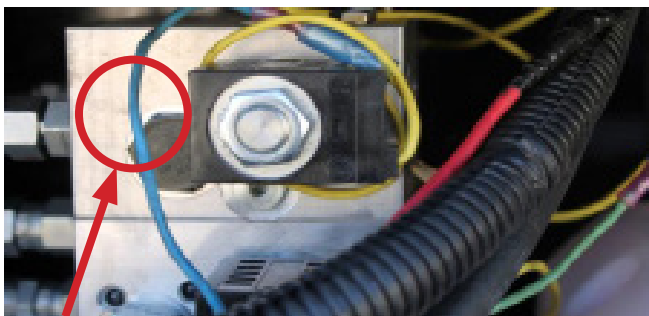


Corded/Wireless Remotes

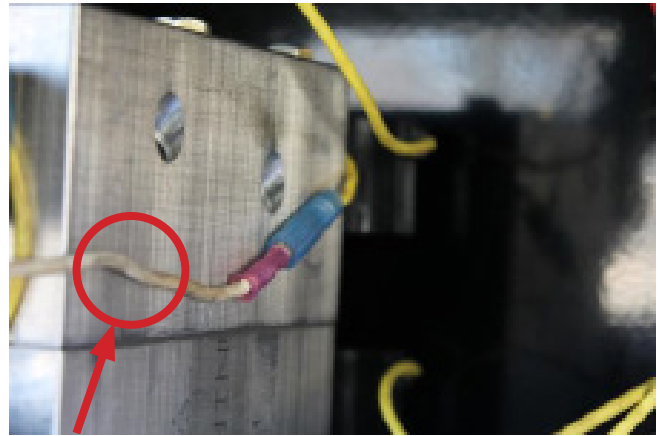
Wiring Instructions/Corded Remote Arm Bed

- See *parts page 1.6* for more detail.
- Blue wire attaches to the top outside manifold coil. This is the “OUT” on the arm wired remote.
- White wire attaches to the top inside manifold coil. This is the “IN” on the arm wired remote.
- Black wire attaches to the bottom outside manifold coil wire mates. This is the “DOWN” on the arm wired remote.
- Green wire attaches to the bottom inside manifold coil. This is the “UP” on the arm wired remote.
- Red wire attaches to the input on the motor start solenoid along with the red battery cable.
- Orange wire attaches to the actuator (small post) on the motor start solenoid.
- The black battery cable connects to bottom of pump block. Note: Scratch surface paint on box for proper grounding. Some trucks may require ground wire run all the way to the battery to establish grounding.

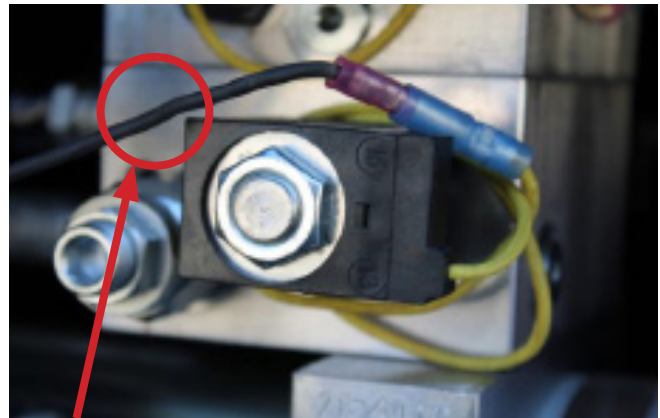
Note: When wiring, inside coils are facing back of box. Outside coils are facing tool box lid.



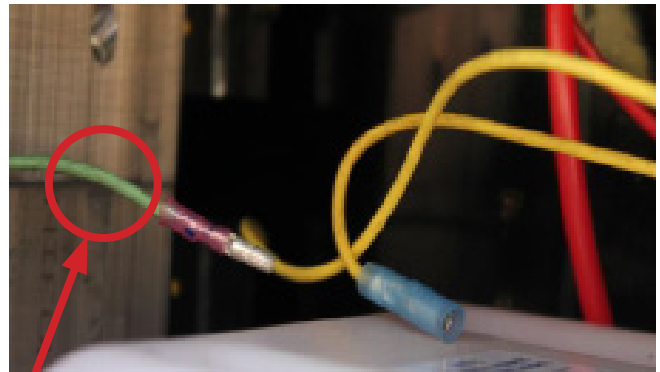
Blue wire attaches to the top outside manifold coil.



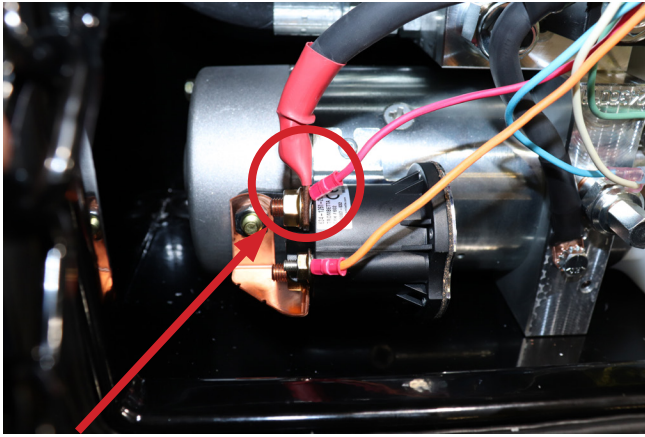
White wire attaches to the top inside manifold coil.



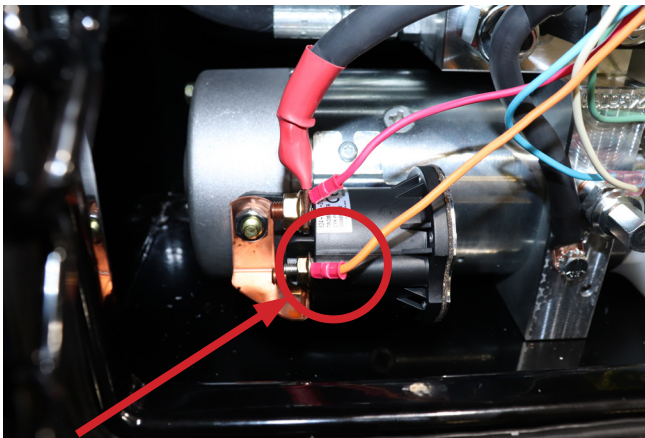
Black wire attaches to the bottom outside manifold coil.



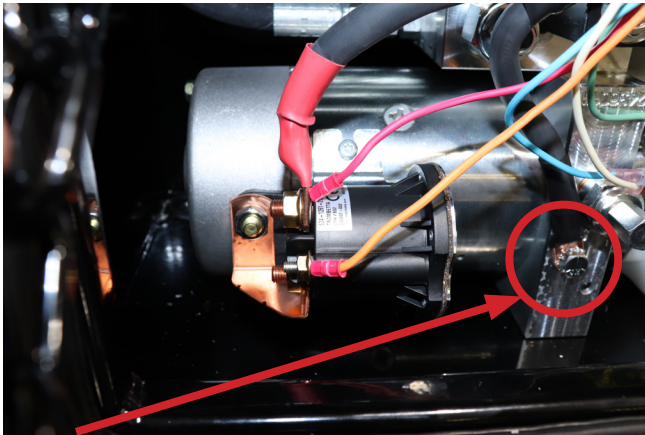
Green wire attaches to the bottom inside manifold coil.



Red battery cable attaches to input of motor start solenoid.



Orange wire attaches to the actuator (small post) on the motor start solenoid.

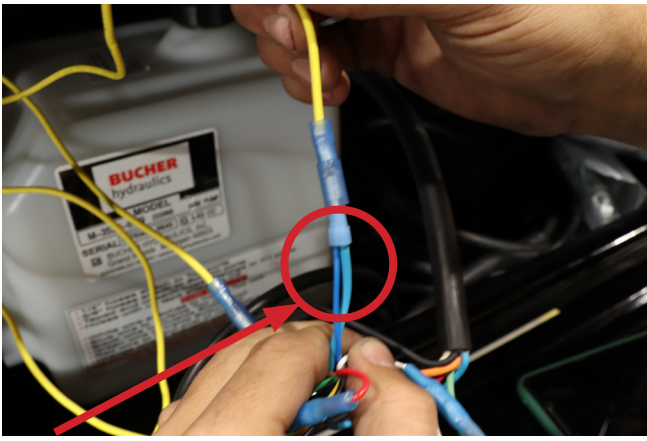


Ground wire attaches to the bottom of the pump block.

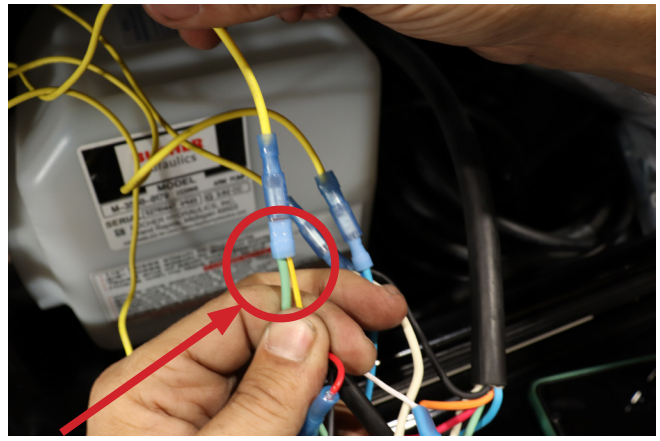
Wiring Instructions / Wireless Remote Arm Bed (optional)

- See parts page 1.5 for more detail.
- Blue wire attaches to top outside manifold coil. (butt splice with blue hand control wire)
- Brown wire attaches to top inside manifold coil. (butt splice with white hand control wire)
- Green wire attaches to bottom outside manifold coil. (butt splice with black hand control wire)
- Yellow wire attaches to bottom inside manifold coil. (butt splice with green hand control wire)
- Black wire attaches to bottom of block.
- Red wire attaches to in-line 15 amp resettable/replaceable fuse.
- White wire attaches to orange wire that connects to the actuator on motor start solenoid. (butt splice with orange wire)
- 15 amp resettable/replaceable fuse connects to input on motor start solenoid.

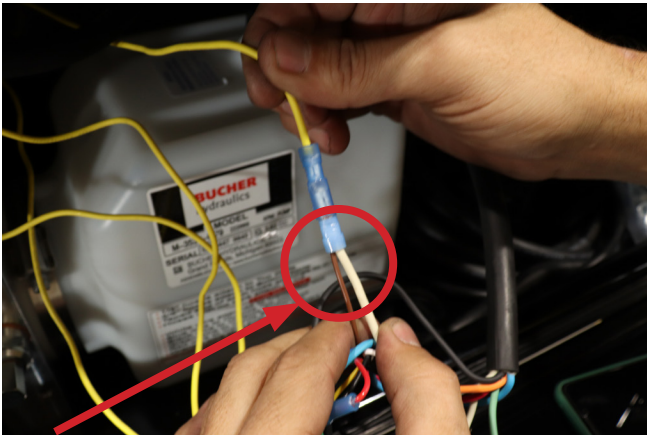




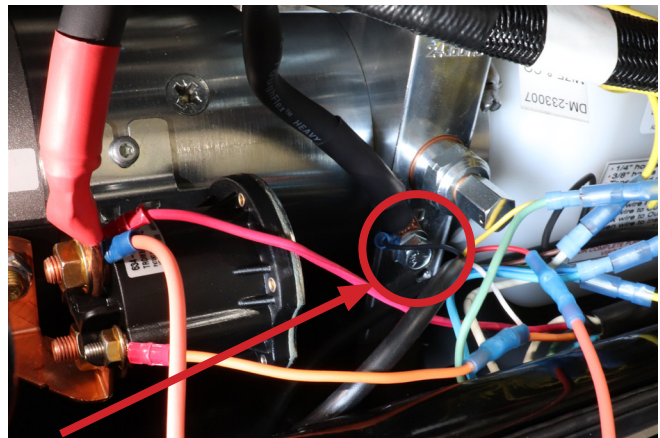
Blue wire attaches to top outside manifold coil.



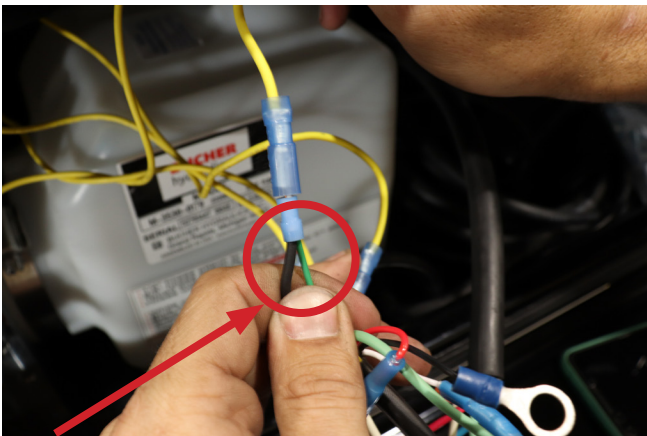
Yellow wire attaches to bottom inside manifold coil.



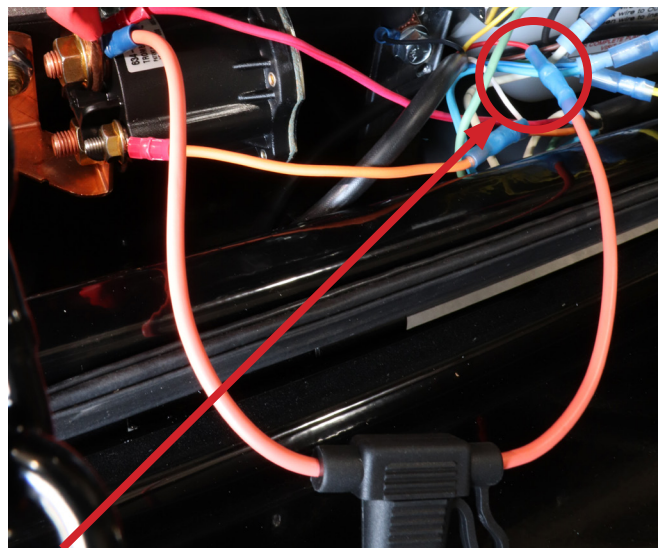
Brown wire attaches to top inside manifold coil.



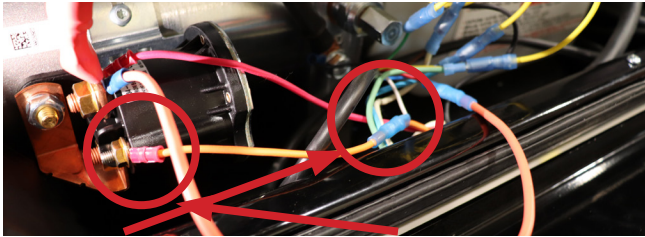
Black wire attaches to bottom of block.



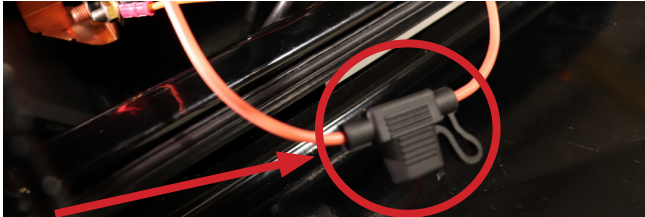
Green wire attaches to bottom outside manifold coil.



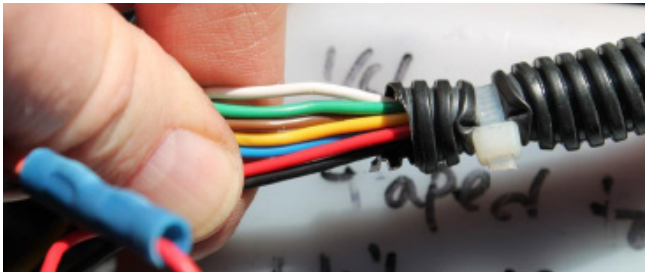
Red wire attaches to in-line 15 amp resettable/replaceable fuse.



White wire attaches to orange wire the connects to the actuator on motor start solenoid.



15 amp resettable/replaceable fuse attaches to input on motor start solenoid.



All seven wires.

If the transmitter does not function when turned on for the first time, disconnect the power supply to the receiver that's mounted inside the tool box and then reconnect. This opens a 20 second window for registration. When you see the LED light flashing inside the receiver, PRESS and HOLD the green button on the transmitter (remote) and the F1 button. Continue to hold BOTH buttons for a minimum of 5 seconds during the 20 second period. Keep holding down buttons and if the transmitter is successfully registered, you will see the LED light illuminate solid for 3 seconds. First release the F1 button and then the green button within the 3 second period.

Mega Fuse & Fuse Box

The 250 amp (arm bed) or the 200 amp (spike bed), Mega Fuse and fuse box should be installed on the power cable



Spikes in Crosstube

It is important when using the Arm Bed with Spikes in the crosstube, that the Spikes be parallel with the ground when spiking a bale. Failure to do so can result in structural damage to the bed. Refer to pictures to show correct & incorrect spike positions.

Note: Harper Industries, Inc. warrants each purchaser of a new Butler Bed from an authorized dealer or representative, that such equipment is free of manufacturer's defects in workmanship and materials which appear while in normal service for a period of ONE YEAR commencing with delivery to the original user. Structural damage due from incorrect spike position will NOT be warranted by Harper Industries.

Result of Incorrect Spike



Correct Spike Position



Correct Spike Position



Incorrect Spike Position



Incorrect Spike Position



Troubleshooting

The most common problems with a power unit are due to low voltage from a battery, fuse failure, faulty wire or a failing ground connection. To narrow down the problem, connect jumper cables to the pump (positive to input side of solenoid & negative to the ground on pump base). Use a separate good battery (from another vehicle or a new battery). If the pump and bed operate properly, then have the battery tested, check in line fuse and power cord, and/or run ground cable directly to the battery instead of inside the tool box or frame. If the pump does not operate properly with jumper cables, then check solenoid and/or motor.

PROBLEM	SOLUTION
Power unit not responding to remote when toggle is activated	Use test light on remote connections to solenoid. If any connections are not working, the problem is in the remote. If all connections are working, check solenoid. If solenoid is working properly, the problem is in the pump motor.
Motor is humming or bed is operating slowly	Pump motor is failing.
One of the four operations is not working. Example: bed will lift, lower and squeeze in but will not squeeze out	Check wire on cartridge valve coil for a short or take coil off and activate remote while putting a screwdriver inside coil. If screwdriver does not magnetize to coil, the coil is failing. If coil is magnetizing, then failure is in cartridge valve.
Arm Bed arms are not moving in unison (synchronized) (The most common problem after hoses are replaced.)	<ol style="list-style-type: none"> 1. Squeeze arms together above the welded stops. Assist the arms by hand if needed until they are both at maximum squeeze point. Hold toggle active for 20 seconds in order to clear air from lines. 2. Check rubber bumpers that are on each arm on the opposite side of cylinder hook up point.
Bale drops on its own when suspended in the air or will not maintain a tight squeeze	Turn the counter-balance valve ¼ turn clockwise until bale suspends normally. Do not tighten screw all the way in.
Arms pivot are not moving fast / pressurizing but not moving	Check for debris in the check valve. Make sure spring plunger is not broken.

PROBLEM	SOLUTION
Bed will not lift heavier bales/arms will not release bale when suspended in air	Turn the counter-balance valve ¼ turns clockwise until bale lifts properly. Do not tighten screw all the way in. If problem persists, turn pressure relief set screw in ¼ turn clockwise until bale lifts properly. Do not tighten screw all the way in. If problem still persists then power unit is failing.
Bale shutters or falls too fast	Turn the counter-balance valve ¼ turn clockwise until bale goes down properly. Do not tighten screw all the way in.
Bale goes down too fast	Turn counter-balance valve ¼ turn counter clockwise until desired speed is achieved. If bale starts to shutter/go down too fast, turn same screw clockwise ¼ turn.
Fluid leaking under bed or in tool box	Check hose connection at leak. Tighten or replace if needed. Leaks in tool box are best diagnosed by activating the remote while watching the power unit. Determine where the leak is coming from and replace O-ring / plug / valve if needed. Some leaks are fixed by tightening the plug/valve. Make sure the plastic reservoir is not cracked.

How to Check

Solenoid	Check the two posts. If posts show voltage, then the solenoid is good.
Pump	Make sure there is good voltage to the motor. If motor checks out good check for broken or worn gear. If there is a grinding or metallic noise, the pump needs to be replaced.
Motor	Check amp range using chart below. Arm & spike beds draw different amps at different pressures.

Amp Draw

PSI	Arm Amps Draw
50	96
250	114
500	137
750	159
1000	180
1250	201
1500	221
1750	241
2000	260
2250	279
2500	297
2750	315
3000	332

NOTE: The power unit is configured from the factory to lift heavier bales. To adjust the speed of pump for lighter bales, the counter-balance valve can be adjusted. To make an adjustment, turn the counter-balance valve set screw counter clockwise until bale will not lift, and then turn the same screw clockwise by $\frac{1}{4}$ turns until bale is lifting properly multiple times.



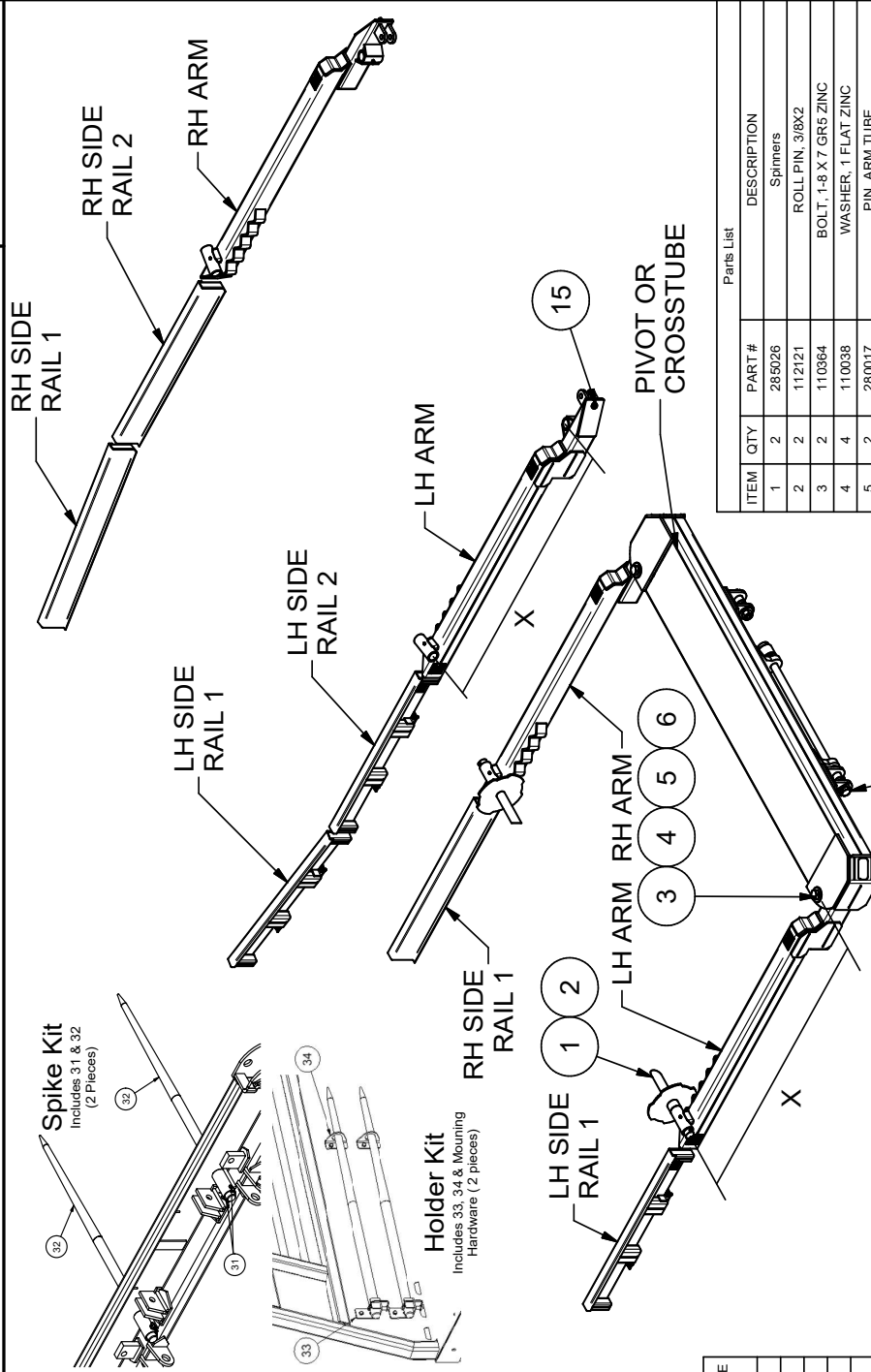
ARM BED

PARTS

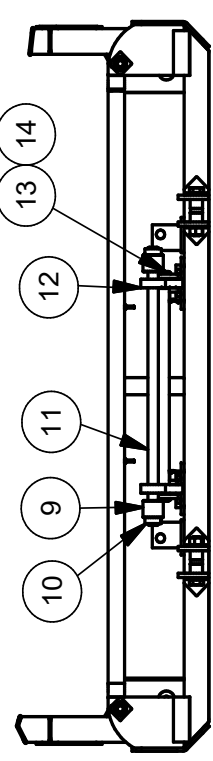
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Mounting Kits.....	1.12



Arms, Side Rails, & Crossstube/Pivot



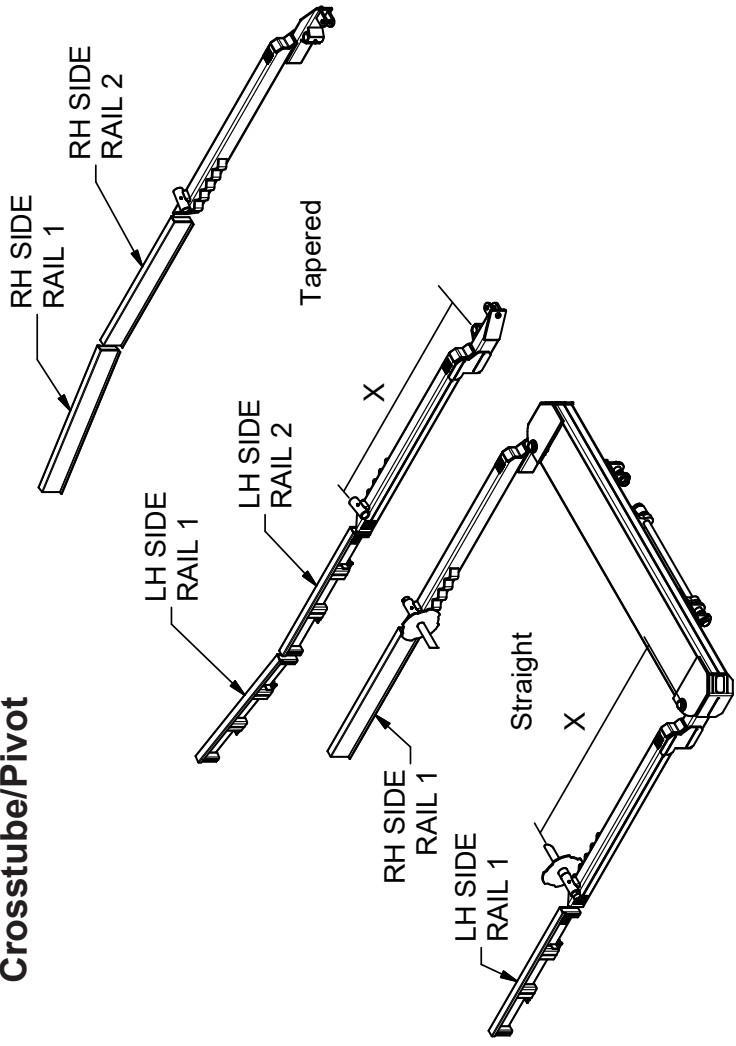
ARMS			
BED SIZE	LH ARM	RH ARM	Length X
A84X84	205193	205192	Normal 50"
A84X84	205235	205234	Short 41"
A84X101	205193	205192	Normal 50"
A84X101	205333	205334	41CF 48"
A84X108	205193	205192	Normal 50"
A84X113	205193	205192	Normal 50"
A80X108	205228	205221	Normal 50"
A80X113	205228	205221	Normal 50"
A80X137	205228	205221	Normal 50"
A94X101	205228	205221	Normal 50"
A94X101	205339	205340	41CF 48"
A94X108	205228	205221	Normal 50"
A94X113	205228	205221	Normal 50"
A94X132	205228	205221	Normal 50"
A94X137	205228	205221	Normal 50"
A96X84	205228	205221	Normal 50"
A96X84	205267	205268	Short 41"
A96X101	205228	205221	Normal 50"
A96X101	205339	205340	41CF 48"
A96X108	205228	205221	Normal 50"
A96X113	205228	205221	Normal 50"
A96X132	205228	205221	Normal 50"
A96X137	205228	205221	Normal 50"

PIVOT OR CROSS-TUBE W/ SPIKES	
BED SIZE	PART #
A84X84	205322
A84X101	205322
A84X108	205322
A84X113	205322
A90X108	205323
A90X113	205323
A90X137	205323
A94X101	205324
A94X108	205324
A94X113	205324
A94X132	205324
A94X137	205324
A96X84	205324
A96X101	205324
A96X108	205324
A96X113	205324
A96X132	205324
A96X137	205324

PIVOT OR CROSS-TUBE	
BED SIZE	PART #
A84X84	205196
A84X101	205196
A84X108	205196
A84X113	205196
A90X108	205197
A90X113	205197
A90X137	205197
A94X101	205198
A94X108	205198
A94X113	205198
A94X132	205198
A94X137	205198
A96X84	205198
A96X101	205198
A96X108	205198
A96X113	205198
A96X132	205198
A96X137	205198

Parts List		
ITEM	QTY	DESCRIPTION
1	2	285026 Spinners
2	2	112121 ROLL PIN, 3/8X2
3	2	110364 BOLT, 1-8 X 7 GR5 ZINC
4	4	110038 WASHER, 1 FLAT ZINC
5	2	280017 PIN, ARM TUBE
6	4	110601 NUT, 1-8 GR5 ZINC
7	2	110208 BOLT, 1-8 X 5 GR5 ZINC
8	2	280018 PIN, CROSS FRAME
9	2	280170 ROLLER, 2.5 X 1.25 X 2 NYLATRON
10	2	112122 COLLAR, LOCK ID 1.25 3/8-16 SET SCREW
11	1	280160 Shaft, AB Roller
12	1	285017 Weldment, H-Frame
13	1	220480 Pin, 1X3.5
14	1	102122 Locking Cotter Ring 1"
15	1	112124 Bumper, Arm
31	2	102122 Locking Cotter Ring 1"
32	2	111214 Pin, 1/2" Diameter
33	2	212045 Spike, Butler Arm Bed
34	2	281062 Bracket, Spike Holder

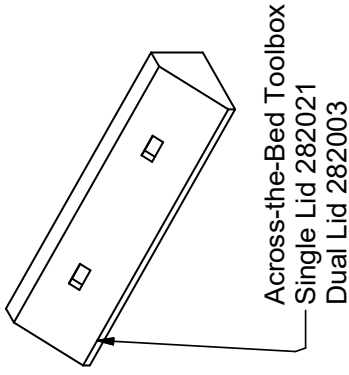
Arms, Side Rails, & Crosstube/Pivot



SIDE RAILS							Length X
BED SIZE	BED SHAPE	LH SIDE RAIL 1	RH SIDE RAIL 1	LH SIDE RAIL 2	RH SIDE RAIL 2		
A84X84	Straight	205232	205231	N/A	N/A	N/A	Normal 50"
A84X84	Straight	205238	205237	N/A	N/A	N/A	Short 41"
A84X101	Straight	205195	205194	N/A	N/A	N/A	Normal 50"
A84X101	Straight	205195	205194	N/A	N/A	N/A	41CF 48"
A84X108	Straight	205226	205227	N/A	N/A	N/A	Normal 50"
A84X113	Straight	205224	205225	N/A	N/A	N/A	Normal 50"
A90X108	Tapered	205195	205194	205254	205254	205254	Normal 50"
A90X108	Straight	205226	205227	N/A	N/A	N/A	Normal 50"
A90X113	Tapered	205195	205194	205211	205241	205241	Normal 50"
A90X137	Straight	205224	205225	N/A	N/A	N/A	Normal 50"
A90X137	Tapered	205195	205194	205195	205194	205194	Normal 50"
A94X101	Straight	205342	205343	N/A	N/A	N/A	Normal 50"
A94X101	Tapered	205195	205194	N/A	N/A	N/A	Normal 50"
A94X101	Tapered	205195	205194	N/A	N/A	N/A	41CF 48"
A94X101	Straight	205195	205194	N/A	N/A	N/A	Normal 50"
A94X108	Tapered	205254	205254	205195	205194	205194	Normal 50"
A94X108	Straight	205226	205227	N/A	N/A	N/A	Normal 50"
A94X113	Tapered	205195	205194	205211	205241	205241	Normal 50"
A94X113	Straight	205224	205225	N/A	N/A	N/A	Normal 50"
A94X132	Tapered	205195	205194	205259	205260	205260	Normal 50"
A94X132	Straight	205347	205348	N/A	N/A	N/A	Normal 50"
A94X137	Tapered	205195	205194	205195	205194	205194	Normal 50"
A94X137	Straight	205342	205343	N/A	N/A	N/A	Normal 50"
A96X84	Tapered	205232	205231	N/A	N/A	N/A	Normal 50"
A96X84	Tapered	205232	205231	205270	205270	205270	Short 41"
A96X84	Straight	205232	205231	N/A	N/A	N/A	Normal 50"
A96X101	Tapered	205195	205194	N/A	N/A	N/A	Normal 50"
A96X101	Tapered	205195	205194	N/A	N/A	N/A	41CF 48"
A96X101	Straight	205195	205194	N/A	N/A	N/A	Normal 50"
A96X108	Tapered	205254	205254	205195	205194	205194	Normal 50"
A96X108	Straight	205226	205227	N/A	N/A	N/A	Normal 50"
A96X113	Tapered	205195	205194	205211	205241	205241	Normal 50"
A96X113	Straight	205224	205225	N/A	N/A	N/A	Normal 50"
A96X132	Tapered	205195	205194	205259	205260	205260	Normal 50"
A96X132	Straight	205347	205348	N/A	N/A	N/A	Normal 50"
A96X137	Tapered	205195	205194	205195	205194	205194	Normal 50"
A96X137	Straight	205342	205343	N/A	N/A	N/A	Normal 50"

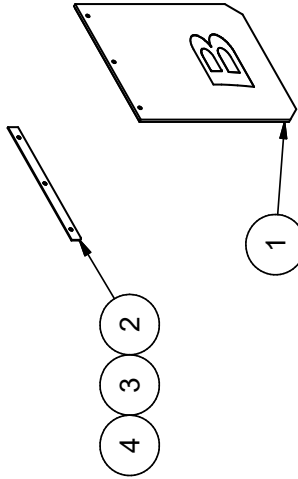
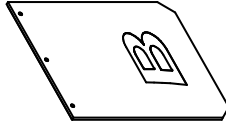
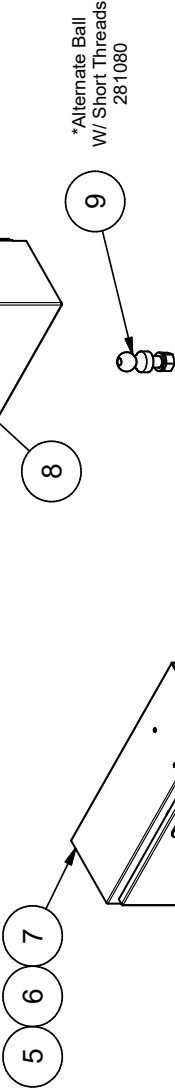
Toolbox, Hitch Ball, & Mudflaps

TOOLBOX SEAL 102030	
Size (inches)	Seal (feet)
18	5
20	5.5
24	6
30	7
36	8



TOOLBOX

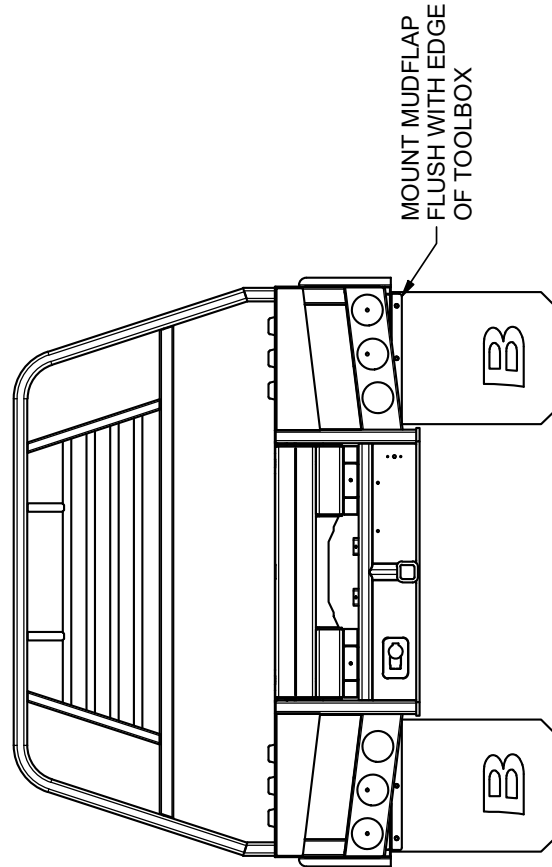
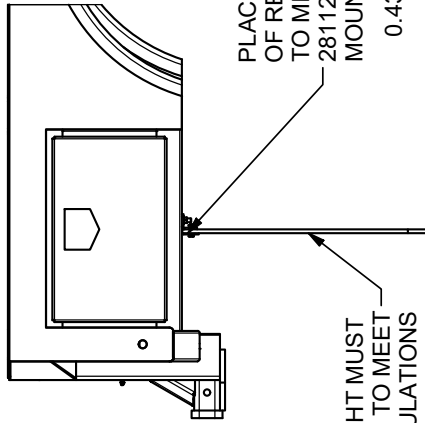
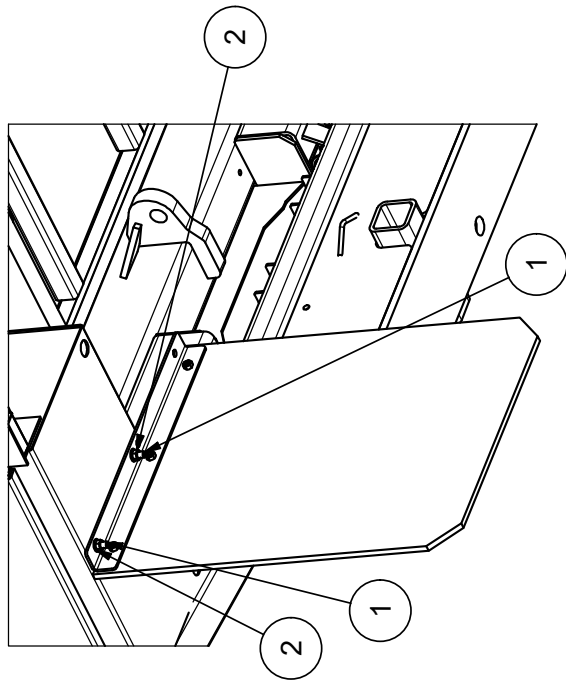
Lorem ipsum



FRONT TOOLBOXES	
SIZE (IN)	RH PART #
18	282004
20	282005
30	282001
36	282008

REAR TOOLBOXES	
SIZE (IN)	RH PART #
20	282017
24	282019

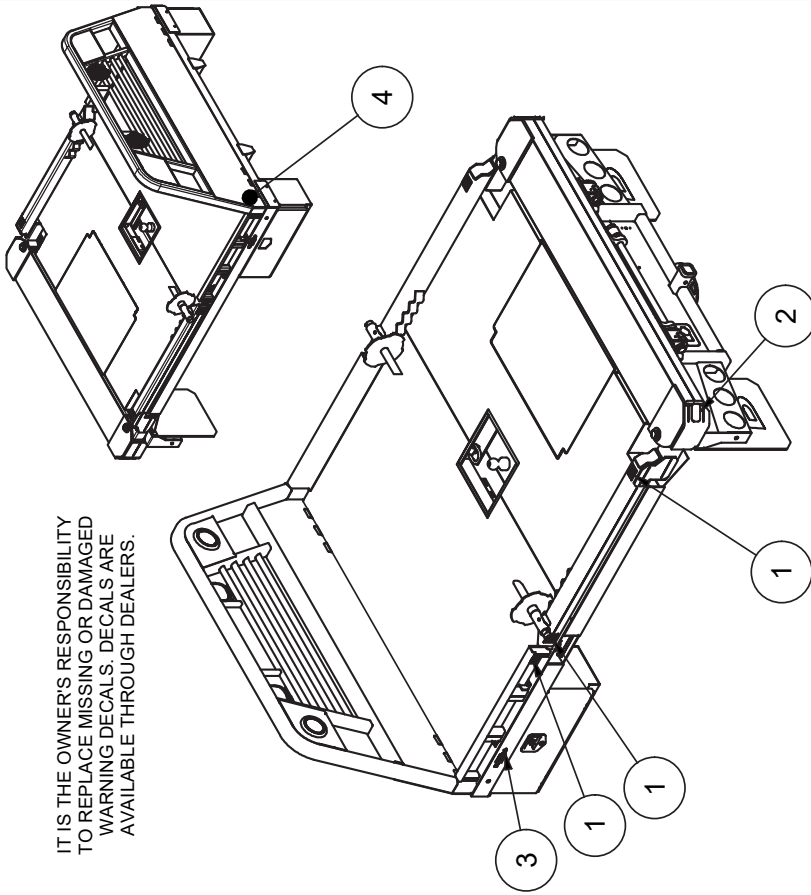
Parts List		
ITEM	QTY	DESCRIPTION
1	2	Mudflap, Butler
2	2	Plate, Mudflap, 19 X 1.5, 3 Holes
3	6	BOLT, 5/16-18 x 1 GR5 ZINC
4	6	NUT, 5/16-18 GR5 ZINC
5	8	BOLT, 3/8-16 X 1 GR5 ZINC
6	8	WASHER, 3/8 LOCK ZINC
7	8	NUT, 3/8-16 GR5 ZINC
8	2	GROMMET, RUBBER 1 1/2 ID
9	1	Hitch Ball, 2 5/16 X 1 3/8 X 1 with hardware
10	2	Latch, Toolbox
11	1	Decal, Pin Stripe, White 150 FT Roll



Mudflap Mount

Parts List		
ITEM	QTY	PART # DESCRIPTION
1	4	110440 BOLT, 3/8-16 X 1, WIZ FLANGE
2	4	110645 NUT, 3/8-16 WIZ FLANGE
3	2	281125 BRACKET, MUD FLAP

IT IS THE OWNER'S RESPONSIBILITY TO REPLACE MISSING OR DAMAGED WARNING DECALS. DECALS ARE AVAILABLE THROUGH DEALERS.

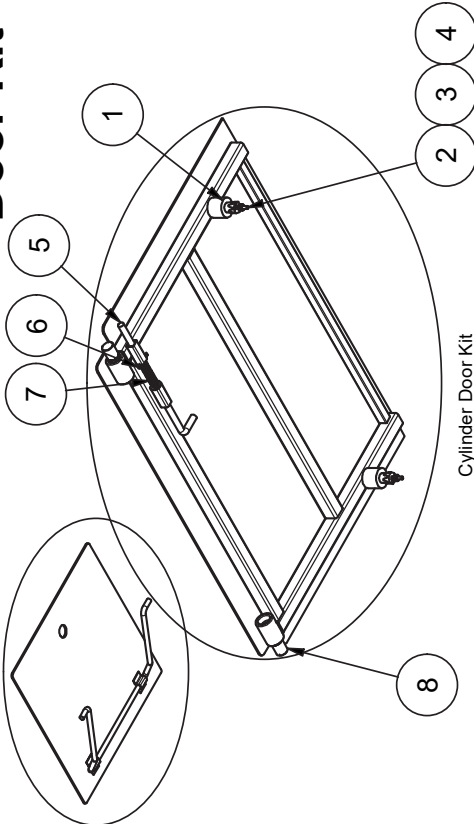


ITEM	QTY	PART #	DESCRIPTION
1	6	200144	Decal, Danger
2	2	202138	Decal, Red Reflector 2X3.5
3	2	202140	Decal, Butler
4	2	202139	Decal, Amber Reflector 2X3.5

Decals

5th Wheel Door Kit

5th Wheel Door
Late 2022 Units
285850
One Piece Rod

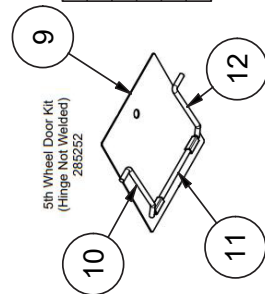


Cylinder Door Kit
(Pins Not Welded)
285253

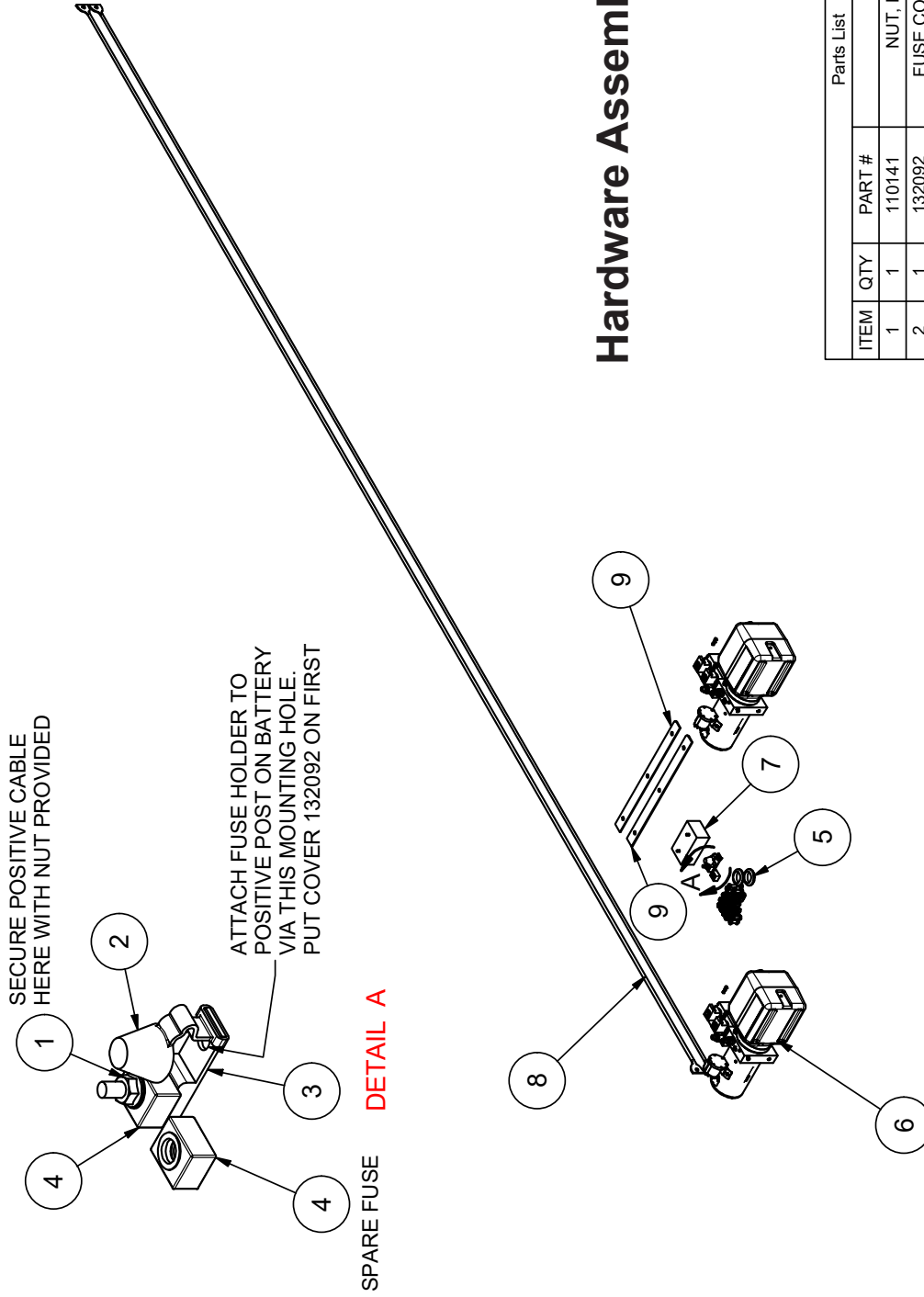
ITEM	QTY	PART #	DESCRIPTION
1	2	112117	Door Holder, Rubber and Plastic
2	2	110406	Bolt, 1/4-20 X 2.25
3	2	110667	Washer, 1/4 Lock
4	2	110609	Nut, 1/4-20
5	1	280130	Rod, Service Door
6	1	110279	Roll Pin, 3/16 X 1 1/2
7	1	112114	Spring, Compression 5/8 X 2.75
8	2	280155	Pin, Door

Original 5th Wheel Door Ended Late 2022 Beds
Three Piece Rod

ITEM	QTY	PART #	DESCRIPTION
9	1	285233	DOOR, WA, 5TH WHEEL
10	1	280151	HINGE, STRAIGHT ROD
11	1	280150	HINGE, FRONT ROD
12	1	280154	HINGE, REAR ROD



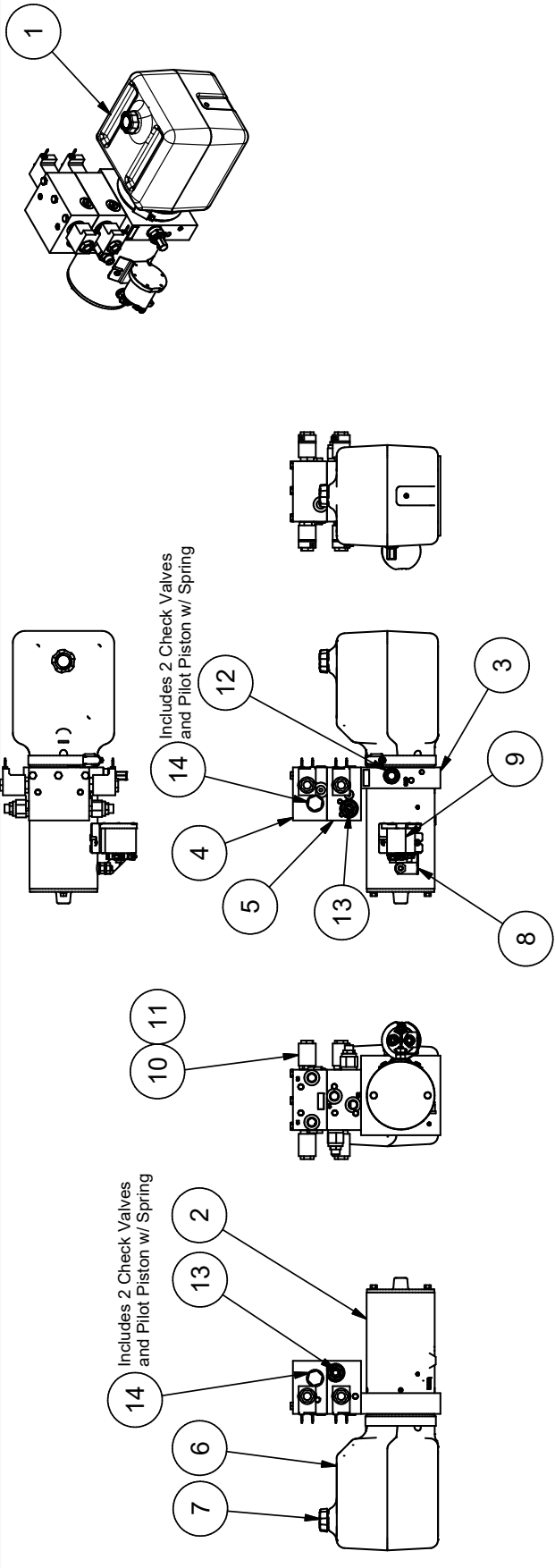
5th Wheel Door Kit
(Hinge Not Welded)
285252



Hardware Assembly

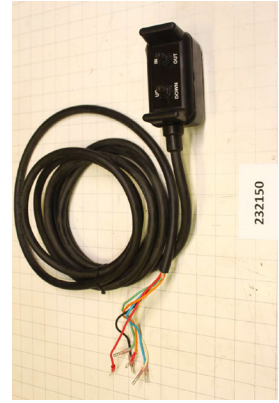
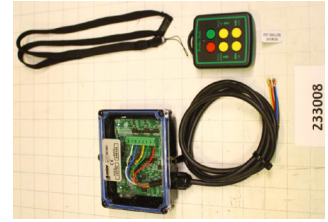
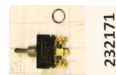
Parts List

ITEM	QTY	PART #	DESCRIPTION
1	1	110141	NUT, M8 X 1.25 WIZFLANGE
2	1	132092	FUSE COVER, BUSS CFCOVER-1R
3	1	132093	FUSE HOLDER, BUSS CFBAR1-M8XSP
4	2	132180	FUSE 250 AMP, BUSS MRBF-250
5	1	205160	Kit, bolt, arm bed, Butler
6	1	222074	Assembly, Power Unit, High
7	1	232150	Hand Control, Butler Arm Bed, Two Switch
8	1	233007	Kit, Power and Ground Cables, Long, Butler
9	2	281265	Plate, Mudflap, 19 X 1.5, 3 Holes

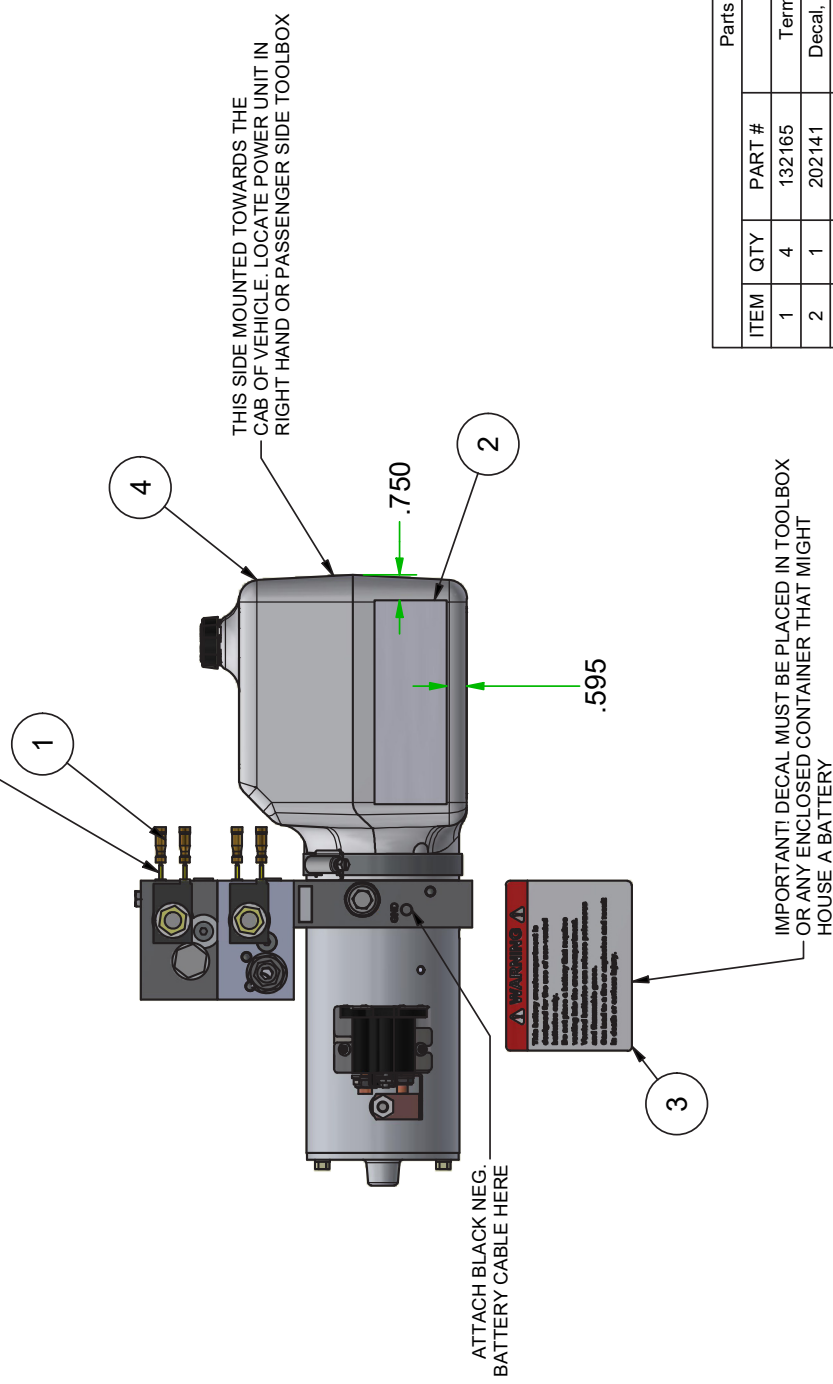


E/H Unit, Pump, Valves, Tank, Power Cable, Wireless Transmitter/Receiver, Wired Hand Control, and Hand Control Switch

ITEM	QTY	PART #	DESCRIPTION
1	1	222074	E/H unit, arm bed, Butler, Bucher 3530-0179
2	1	222072	MOTOR, ELECTRIC AB 12V
3	1	222094	PUMP, HYDRAULIC AB
4	1	222090	VALVE, SQUEEZE AB
5	1	222091	VALVE, LIFT AB
6	1	212034	TANK, HYDRAULIC BUCHER
7	1	212044	CAP, HYDRAULIC TANK BUCHER
8	1	232180	STRAP, SOLENOID CONNECTING
9	1	232089	Solenoid, 3 Pole, Heavy Duty
10	4	222088	VALVE, CARTRIDGE AB
11	4	212033	VALVE, COIL BUTLER
12	1	222104	VALVE, AB RELIEF
13	1	222105	VALVE, AB COUNTERBALANCE
14	1	222089	Check Valve, AB AND SB
15	1	233007	CABLE, POWER 195"
16	1	233008	WIRELESS, TRANSMITTER AND RECEIVER
17	1	232166	WIRELESS, TRANSMITTER
18	1	232150	WIRED, HAND CONTROL TWO SWITCH
19	1	232171	SWITH, AB HAND CONTROL



CUT EXISTING WIRES TO SOLENOIDS TO 15 INCHES. CRIMP ON 132165 TO EACH WIRE



Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	4	132165	Terminal, Female Bullet, 16-14, Nylon
2	1	202141	Decal, 2 X 6 Arm Bed Remote instructions
3	1	202180	DECAL, NON-VENTED BATTERY WARNING
4	1	222068	AB POWER UNIT

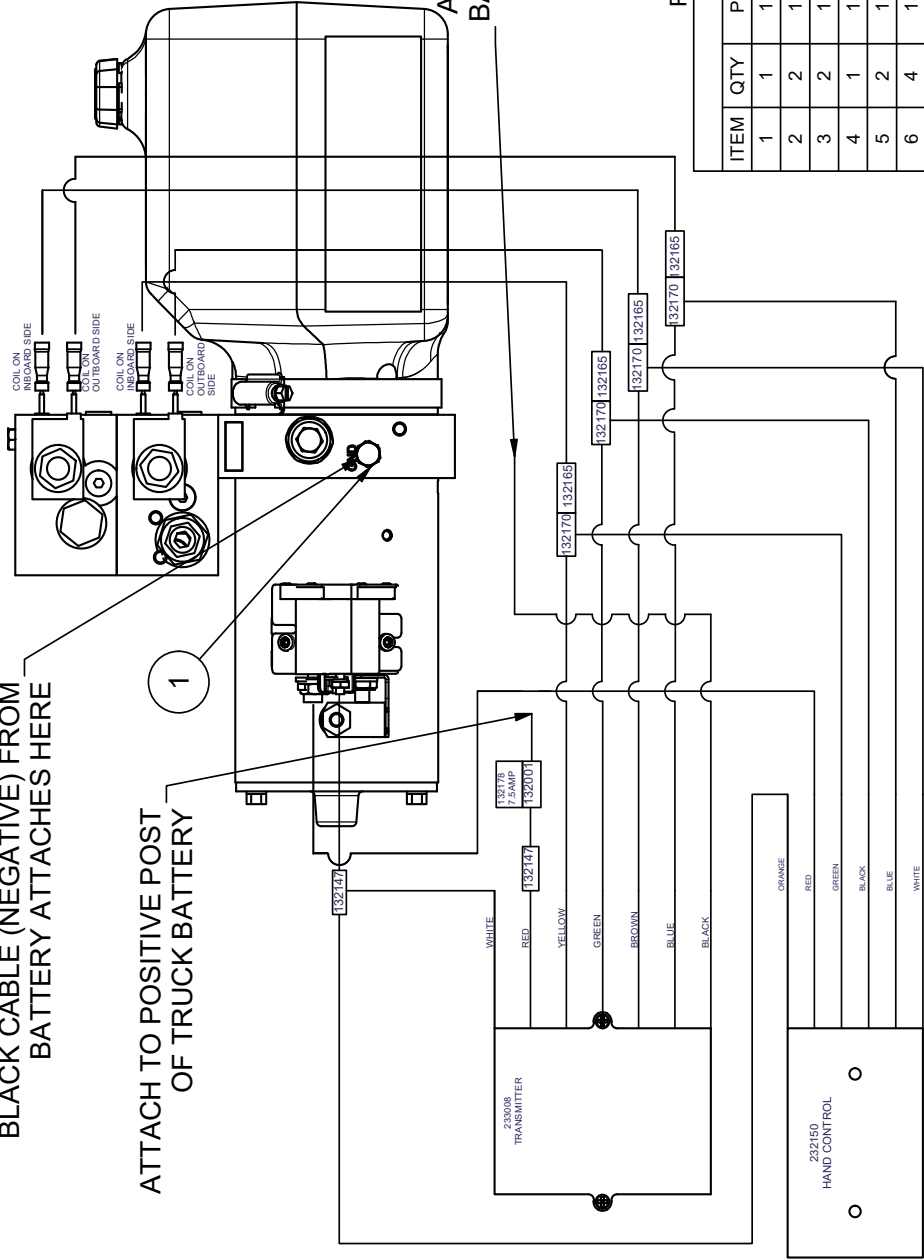
POWER UNIT IS MOUNTED IN PASSENGER SIDE FRONT TOOL BOX

RESERVOIR IS MOUNTED TOWARDS FRONT OF VEHICLE

ATTACH TO TRUCK BATTERY GROUND

BLACK CABLE (NEGATIVE) FROM BATTERY ATTACHES HERE

ATTACH TO POSITIVE POST OF TRUCK BATTERY

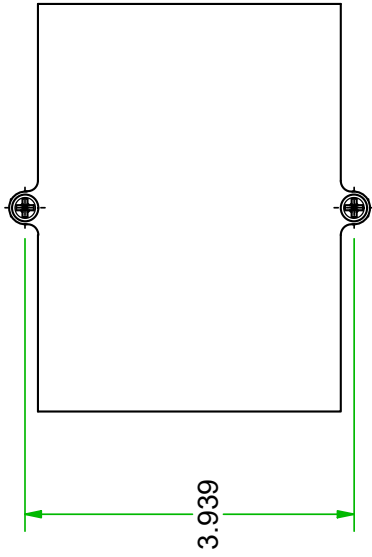
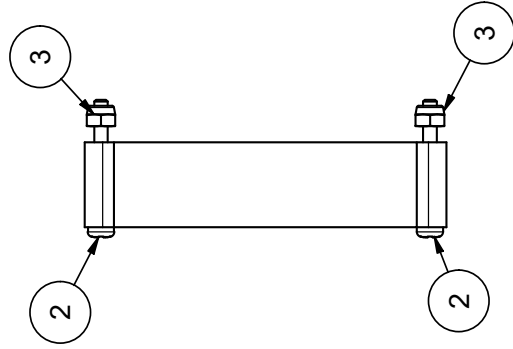


PARTS LIST FOR REFERENCE ONLY

Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	1	110308	BOLT, 5/16-18 X 0.5, GR8
2	2	110344	SCREW, 8-32X1.5 PAN HEAD PHPS
3	2	110345	NUT, 8-32 LOCK NYLON
4	1	132001	FUSE HOLDER, ATC, 14 GA., MINI
5	2	132147	Terminal, Butt Connect 16-14, Heat Shink
6	4	132165	Terminal, Female Bullet, 16-14, Nylon
7	4	132170	Terminal, Male Bullet, 16-14, Nylon
8	1	132178	FUSE, MINI 7.5 AMP

233016

REV: A



DETAIL FOR MOUNTING WIRELESS TRANSMITTER IN TOOLBOX

-MOUNT TRANSMITTER AS FAR AS FEASIBLE IN UPPER RH CORNER OF PASSENGER SIDE TOOLBOX

-DRILL Ø0.20 HOLES PER DIMENSIONS NOTED

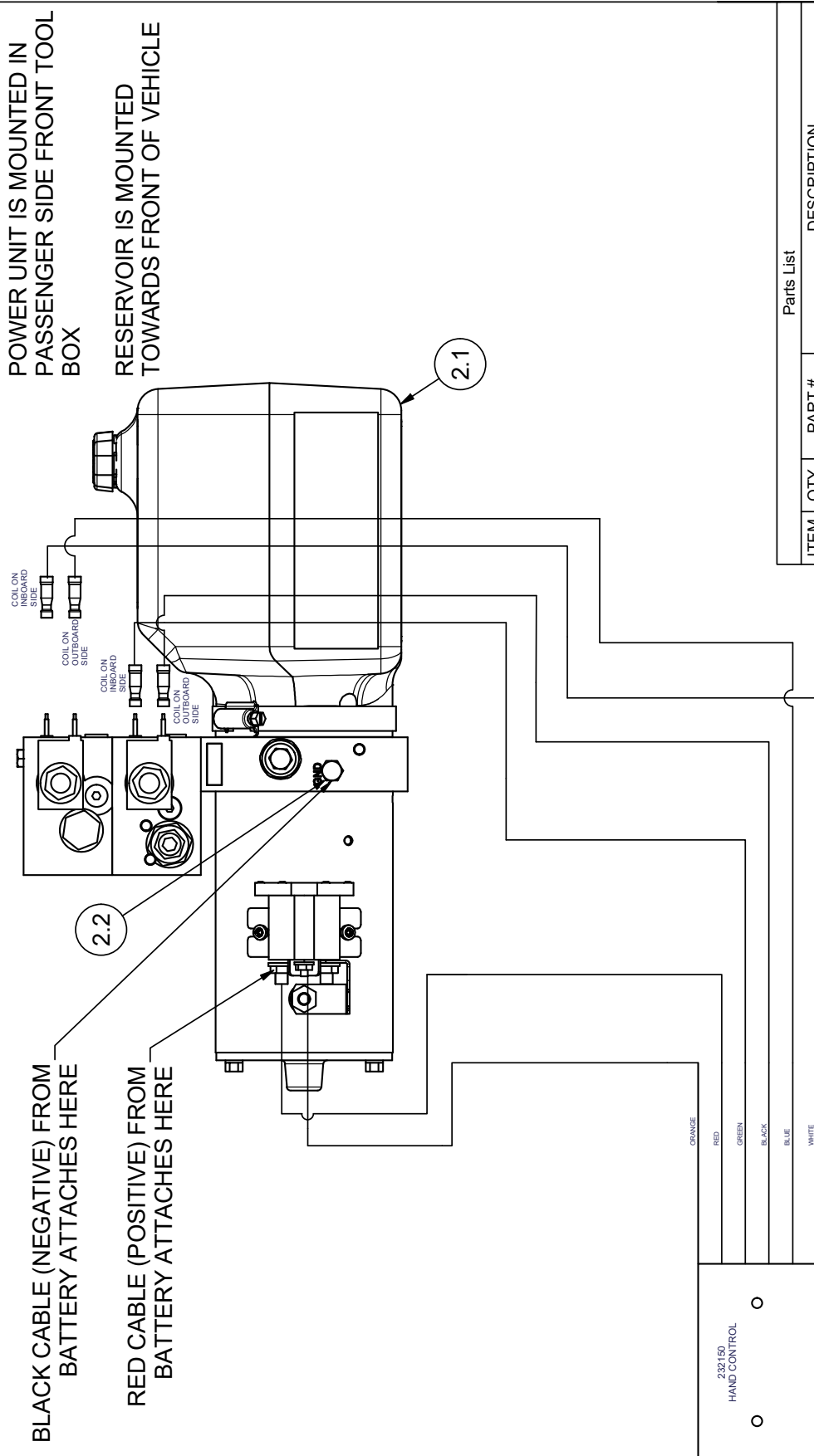
-USE NOTED HARDWARE TO MOUNT

PARTS LIST FOR REFERENCE ONLY

ITEM		QTY	PART #	DESCRIPTION
1	1	110308	BOLT, 5/16-18 X 0.5, GR8	
2	2	110344	SCREW, 8-32X1.5 PAN HEAD PHPS	
3	2	110345	NUT, 8-32 LOCK NYLON	
4	1	132001	FUSE HOLDER, ATC, 14 GA., MINI	
5	2	132147	Terminal, Butt Connect 16-14, Heat Shink	
6	4	132165	Terminal, Female Bullet, 16-14, Nylon	
7	4	132170	Terminal, Male Bullet, 16-14, Nylon	
8	1	132178	FUSE, MINI 7.5 AMP	

Parts List

Wiring Diagram Corded Remote



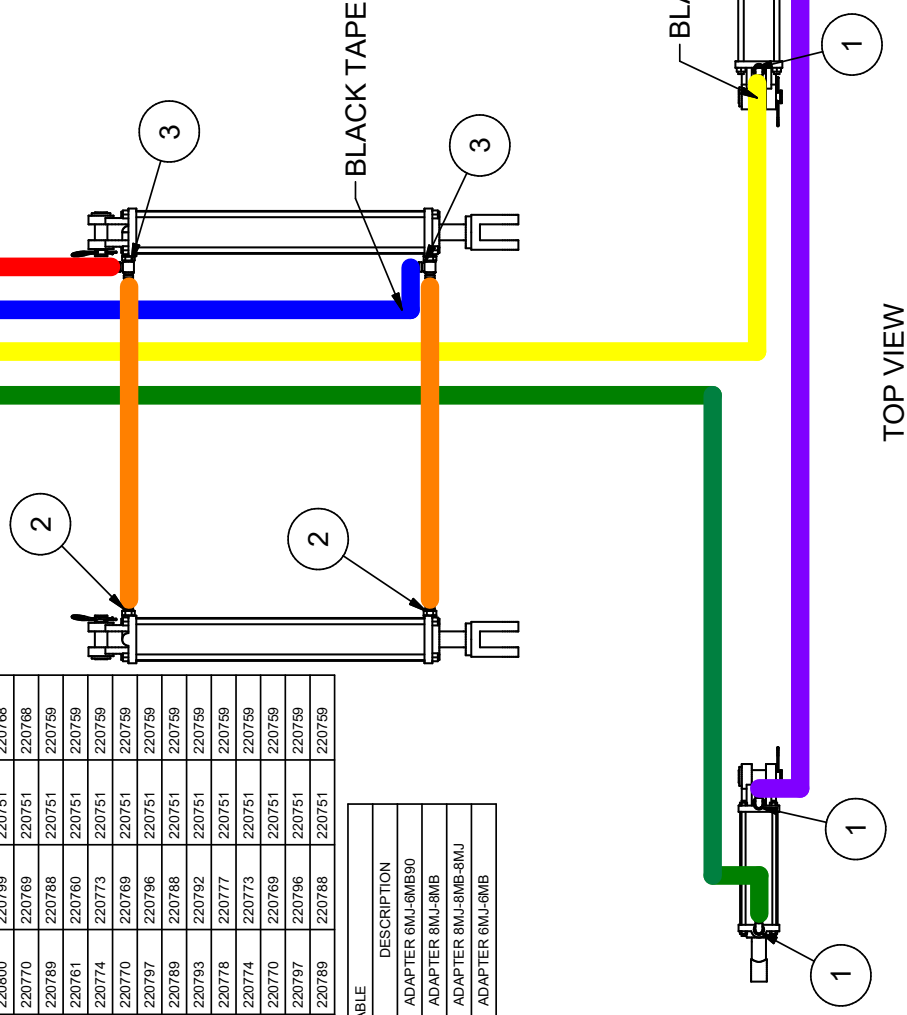
Parts List		
ITEM	QTY	DESCRIPTION
1	1	232150 SWITCH, AB HAND CONTROL
2.1	1	222074 Assembly, Power Unit, High
2.2	1	110308 BOLT, 5/16-18 X 0.5, GR8

C2 TOP VALVE 1/4" HOSE
 C1 TOP VALVE 1/4" HOSE BLACK TAPE
 C1 BOTTOM VALVE 3/8" HOSE BLACK TAPE
 C2 BOTTOM VALVE 3/8" HOSE

ALL HOSES CONNECT TO FITTING 4 IN VALVE

HOSE TABLE						
BED	HOSE 1 (RED)	HOSE 2 (BLUE)	HOSE 3 (GREEN)	HOSE 4 (YELLOW)	HOSE 5 (ORANGE)	HOSE 6 (PURPLE)
A94X84	220766	220767	220765	220764	220751	220754
A94X101	220753	220752	220756	220755	220751	220754
A94X108	220782	220783	220789	220781	220751	220754
A94X113	220786	220787	220785	220784	220751	220754
A90X108	220801	220802	220800	220799	220751	220768
A90X113	220771	220772	220770	220769	220751	220768
A90X137	220790	220791	220789	220788	220751	220759
A94X101	220762	220763	220761	220760	220751	220759
A94X108	220775	220776	220774	220773	220751	220759
A94X113	220771	220772	220770	220769	220751	220759
A94X132	220776	220798	220797	220796	220751	220759
A94X137	220790	220791	220789	220788	220751	220759
A96X84	220794	220795	220793	220792	220751	220759
A96X101	220779	220780	220778	220777	220751	220759
A96X108	220775	220776	220774	220773	220751	220759
A96X113	220771	220772	220770	220769	220751	220759
A96X132	220776	220798	220797	220796	220751	220759
A96X137	220790	220791	220789	220788	220751	220759

FITTING TABLE	
ITEM	DESCRIPTION
1	ADAPTER 6MJ-6MB90
2	ADAPTER 8MJ-8MB
3	ADAPTER 6MJ-6MB-8MJ
4	ADAPTER 6MJ-6MB



Hydraulic Hoses

TOP VIEW

HOSES_MANUAL

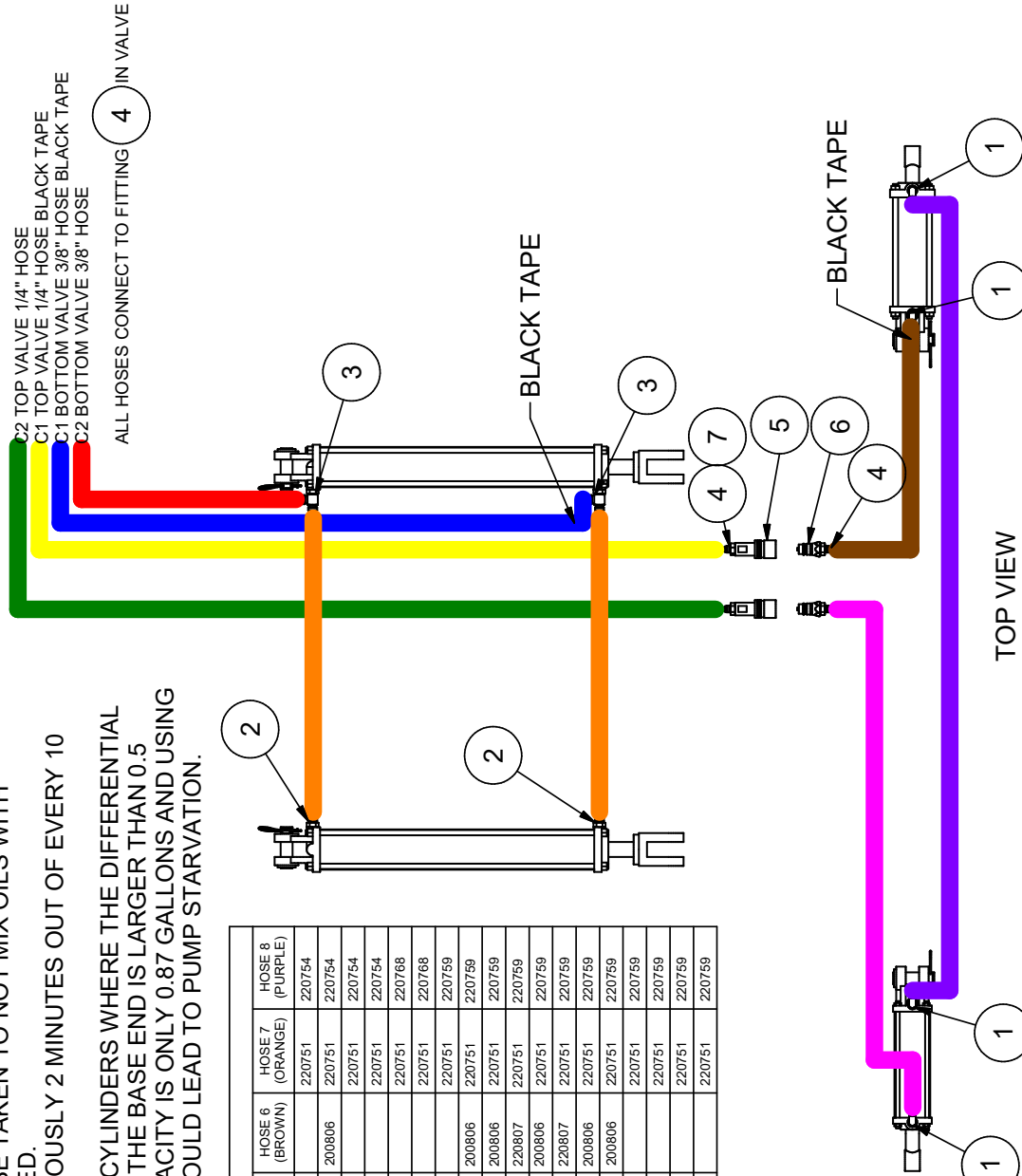
WHEN USING COUPLERS CARE MUST BE TAKEN TO NOT MIX OILS WITH ATTACHMENTS. ISO 46 IS RECOMMENDED. PUMP SHOULD ONLY BE RAN CONTINUOUSLY 2 MINUTES OUT OF EVERY 10 MINUTES. DO NOT USE WITH LARGE HYDRAULIC CYLINDERS WHERE THE DIFFERENTIAL VOLUME BETWEEN THE ROD END AND THE BASE END IS LARGER THAN 0.5 GALLONS. THE PUMP RESERVOIR CAPACITY IS ONLY 0.87 GALLONS AND USING COUPLERS WITH LARGE CYLINDERS COULD LEAD TO PUMP STARVATION.

HOSE TABLE

BED	HOSE 1 (RED)	HOSE 2 (BLUE)	HOSE 3 (GREEN)	HOSE 4 (PINK)	HOSE 5 (YELLOW)	HOSE 6 (BROWN)	HOSE 7 (ORANGE)	HOSE 8 (PURPLE)
A84X84	220766	220767					220751	220754
A84X101	220763	220752	220805	220807	220804	200806	220751	220754
A84X108	220782	220783					220751	220754
A84X113	220786	220787					220751	220754
A90X108	220801	220802					220751	220768
A90X113	220771	220772					220751	220768
A90X137	220790	220791					220751	220759
A94X101	220762	220763	220805	220807	220804	200806	220751	220759
A94X108	220775	220776	220805	220807	220804	200806	220751	220759
A94X113	220790	220791	220822	220754	220823	220807	220751	220759
A94X132	220776	220798	220805	220807	220804	200806	220751	220759
A94X137	220790	220791	220822	220754	220823	220807	220751	220759
A96X84	220794	220795	220805	220807	220804	200806	220751	220759
A96X101	220779	220780	220805	220807	220804	200806	220751	220759
A96X108	220775	220776					220751	220759
A96X113	220771	220772					220751	220759
A96X132	220776	220798					220751	220759
A96X137	220790	220791					220751	220759

FITTING TABLE

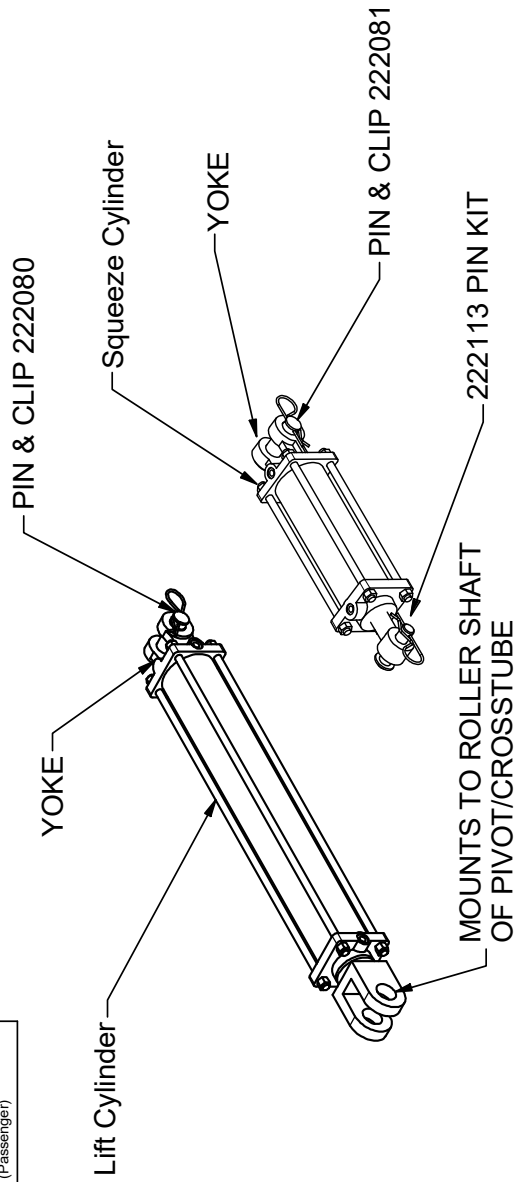
ITEM	QTY	PART #	DESCRIPTION
1	4	120222	ADAPTER 6MJ-6MB90
2	2	120277	ADAPTER 8MJ-8MB
3	2	120512	ADAPTER 8MJ-8MB-8MJ
4	8	120319	ADAPTER 6MJ-6MB
5	2	120581	COUPLER, FEMALE ORB
6	2	120582	COUPLER, MALE ORB
7	2	120239	ADAPTER 6MJ-8MB (A94X113)



Hydraulic Hoses with Couplers

CLAMPS TO HOLD HOSES 102131 QTY 2
DUST CAPS 112127 QTY 2

PARTS LIST		
ITEM	QTY	DESCRIPTION
Lift	2	1.25X3.0X20
Squeeze	1	1.125X2.5X6 (Driver Side)
Squeeze	1	1.125X2.75X6 (Passenger)
Old 4" Squeeze	1	1.125X2.5X4 (Driver Side)
Old 4" Squeeze	1	1.125X2.75X4 (Passenger)



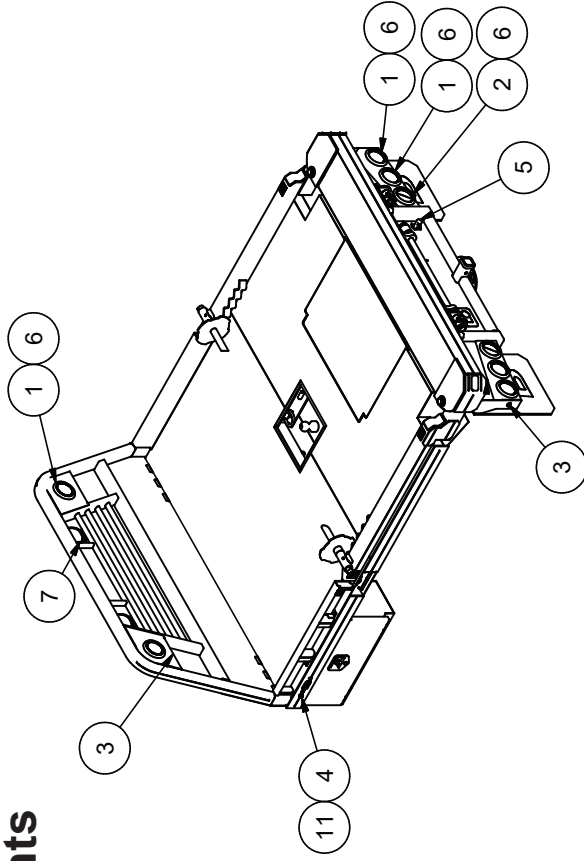
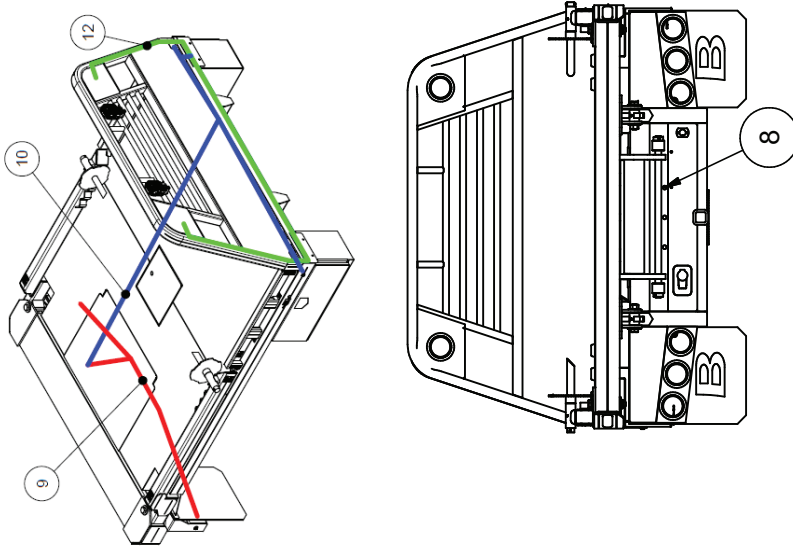
222070 SERVICE PARTS LIST		
ITEM	QTY	DESCRIPTION
1	1	Kit, Yoke 3.0
2	1	Kit, Pin & Clip Dia 1.0 X 3.125
3	1	Kit, Seal 2.0X3.0

Service Parts List 222066 (rev C)		
ITEM	QTY	DESCRIPTION
1	1	Kit, Yoke 2.5
2	1	Kit, Pin & Clip Dia 1.0 X 2.75
3	1	Kit, Seal 1.125X2.5
4	1	Ø.75 X 2.5 PIN KIT

Service Parts List 222067 (rev C)		
ITEM	QTY	DESCRIPTION
1	1	Kit, Yoke 2.75
2	1	Kit, Pin & Clip Dia 1.0 X 2.75
3	1	Kit, Seal 1.125X2.75
4	1	Ø.75 X 2.5 PIN KIT

Lift Cylinder Assembly

Electrical Harness & Lights



OPTIONAL FACTORY HARNESS						
PART #	DESCRIPTION	MAKE	TYPE	START YR	END YR	
232162	Harness Adapter, Generic	ALL	ALL	1999		
232165	Harness, Front	ALL	ALL	ALL	ALL	
232157	Harness, Rear	ALL	ALL	ALL	ALL	
232156	Harness, Headache Rack	ALL	ALL	ALL	ALL	
232164	Harness Adapter, Ram CC	Dodge	CC	1999		
232176	Harness Adapter, FD Box Delete, 2008-10	Ford	BTO	2008	2010	
232160	Harness Adapter, FD Box Delete, 2011-16	Ford	BTO	2011	2016	
232177	Harness Adapter, FD Box Delete, 2017-19	Ford	BTO	2017	2019	
232185	Harness Adapter, FD Box Delete, 2020+	Ford	BTO	2020		
232192	Harness Adapter, FD Box Delete, 2020+	Ford	BLIS	2020		
232161	Harness Adapter, FD CC	Ford	CC	1999		
232174	Harness Adapter, GM CC 02-14 w/3rd Brake	GM	ALL	2002	2014	
232163	Harness Adapter, GM CC 02-14 No 3rd Brake	GM	ALL	2002	2014	
232158	Harness Adapter, GM 2015 ONLY	GM	ALL	2015	2015	
232159	Harness Adapter, GM 2016-2019	GM	ALL	2016	2019	
232178	Harness Adapter, GM 2500-3500	GM	ALL	2020		
232179	Harness Adapter, 2019 MD Diy 4500-6500	GM	ALL	2019		
232193	Harness Adapter, Ram Box Delete, 2019+	Dodge	BTO	2019		
232233	Harness Adapter, Ram (LED)	Dodge	BTO	2019		
232238	Harness Adapter, GM BTO	GM	BTO	2024		
232234	Harness Adapter, Ford BTO	Ford	BTO	2024		

SERVICE PART LIST			
ITEM	QTY	PART #	DESCRIPTION
1	6	232144	LIGHT, LED 4" RED
2	2	232145	LIGHT, LED 4" CLEAR
3	2	232147	LIGHT, LED 3/4" RED
4	2	232148	LIGHT, LED 3/4" AMBER
5	1	232188	LIGHT, TAG CLEAR
6	8	232146	GROMMET, LIGHT
7	2	232167	LIGHT, WORK
8	1	232170	LIGHT, LED 3/4" RED 3PC HARNESS
9	1	232157	HARNESS, REAR LIGHTS
10	1	232155	HARNESS, FRONT LIGHTS
11	2	232149	PIGTAIL, AMBER MARKER LIGHT
12	2	232156	HARNESS, STT LIGHTS
13	1	226034	KIT, STT LIGHT BRACKETS
14	1	232169	RESISTOR

Mounting Kits

MOUNT KITS						
PART #	DESCRIPTION	MAKE	TYPE	START YR	END YR	
205162	Mounting Kit, Butler, Chevy General	GM	Bed	1990	2010	
205356	Mounting Kit, Butler, Chevy BD 2011+	GM	Bed	2011	Current	
205365	Mounting Kit, Butler, Chevy C&C --2010	GM	C&C	1990	2010	
205366	Mounting Kit, Butler, Chevy C&C 2011+	GM	C&C	2011	Current	
205165	Mounting Kit, Butler, Dodge 1994-2002	Dodge	Bed	1994	2002	
205362	Mounting Kit, Butler, Dodge 2003-2013 BD	Dodge	Bed	2003	2013	
205359	Mounting Kit, Butler, Dodge 2014+, 3500	Dodge	Bed	2014	Current	
205360	Mounting Kit, Butler, Dodge 2014+, 2500	Dodge	Bed	2014	Current	
205361	Mounting Kit, Butler, Dodge 2014+, Short BD	Dodge	Bed	2014	Current	
205175	Mounting Kit, Butler, Dodge cab and chassis 2011+	Dodge	C&C	2007	2019	
205363	Mounting Kit, Butler, Ford Long BD, 1998-2016	Ford	Bed	1998	2016	
205364	Mounting Kit, Butler, Ford Short BD, 1998-2016	Ford	Bed	1998	2016	
205355	Mounting Kit, Butler, Ford BD, 2017+	Ford	Bed	2017	Current	
205357	Mounting Kit, Butler, Ford C&C 1999-2016	Ford	C&C	1999	2016	
205358	Mounting Kit, Butler, Ford C&C 2017+	Ford	C&C	2017	Current	

NOTES

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Arm Bed

Butler Beds