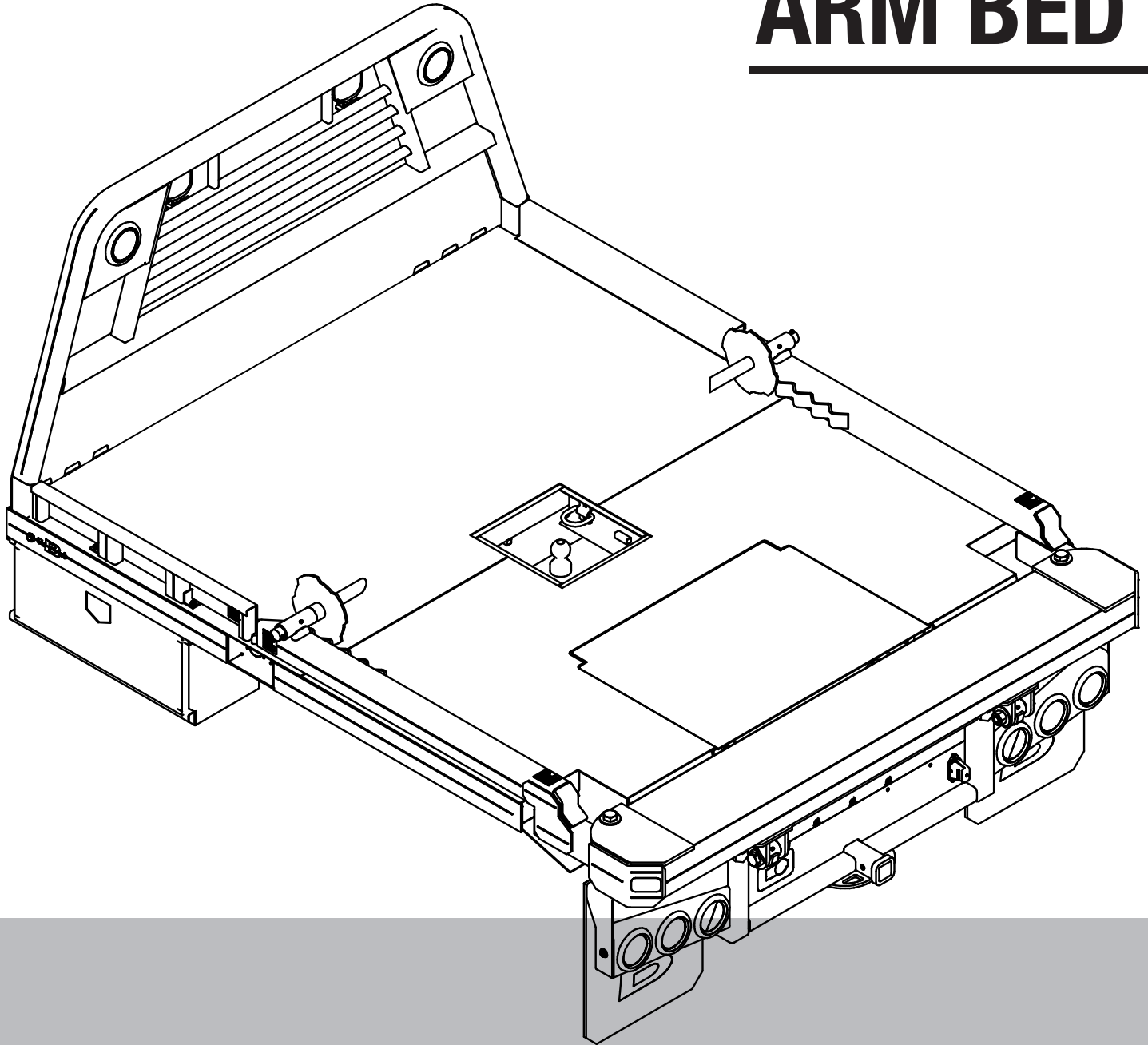


ARM BED



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.

151 E. HWY. 160 Harper, KS 67058
(620) 896-7381 • **Fax** (620) 896-7129

Toll Free 800-596-2464

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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
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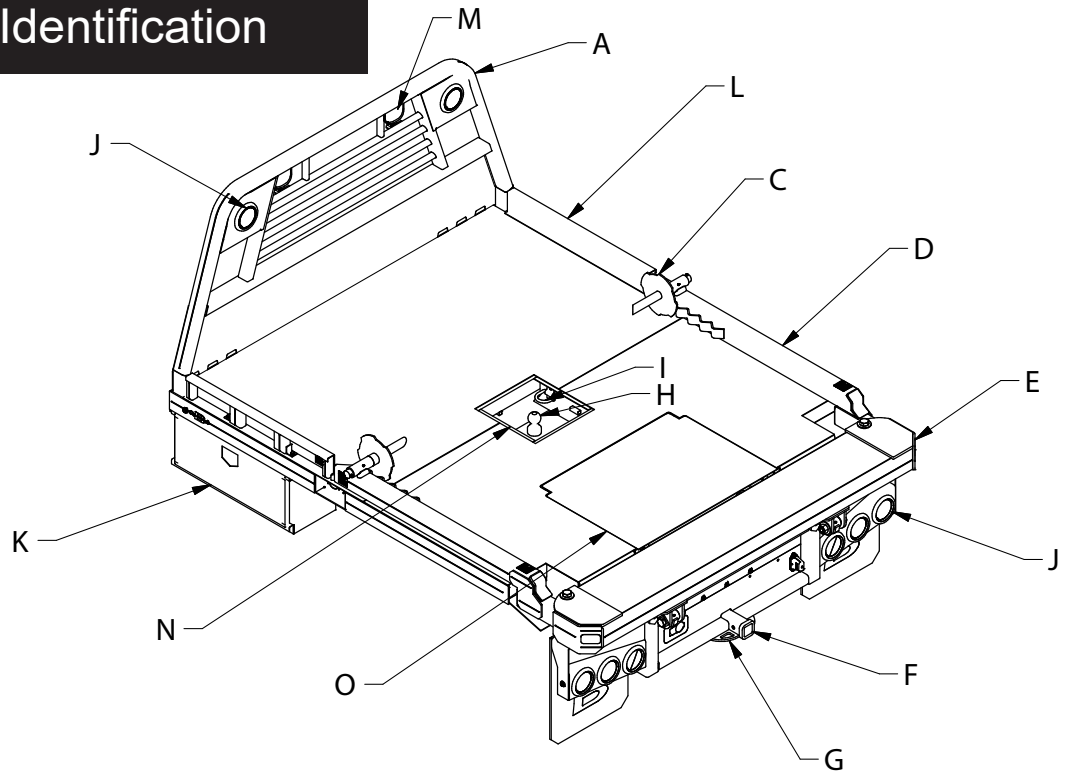
Bed Weights

ARM	84x84	84x101	84x108	84x113	94x101	94x108	94x113	94x132	94x137		
WEIGHT	1448	1502	1528	1886	1845	1950	1975	?	2152		
SKIRTED	1687	1962	?	?	?	?	?	?	?		

SPIKE	80x84	84x84	84x102	84x110	84x115	94x102	94x110	94x115	94x134	94x139	
WEIGHT	1283	1350	1400	1500	1544	1184	1614	1622	?	?	
SKIRTED		1199	1467	?	?	1709	?	?	?	?	

FLATBED	80x102	84x84	84x102	84x110	84x115	90x115	94x102	94x110	94x115	94x134	94x139
WEIGHT	1225	1133	1180	?	?	1309	1169	?	1334	?	1497
SKIRTED		1302	1470	?	?		1255	?	?	?	?

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

General Equipment Safety

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

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

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 highpressure 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.

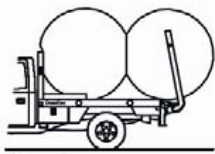


Fig. 1



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

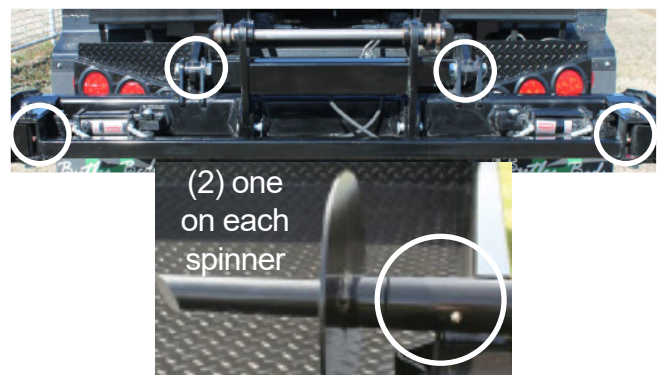
- Grease all (6) zerks once a week or more often during heavy use to keep arm bed operating at its best.
- Grease arms, spinners, and pivots as shown in the picture below.



SAFETY WARNING!



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



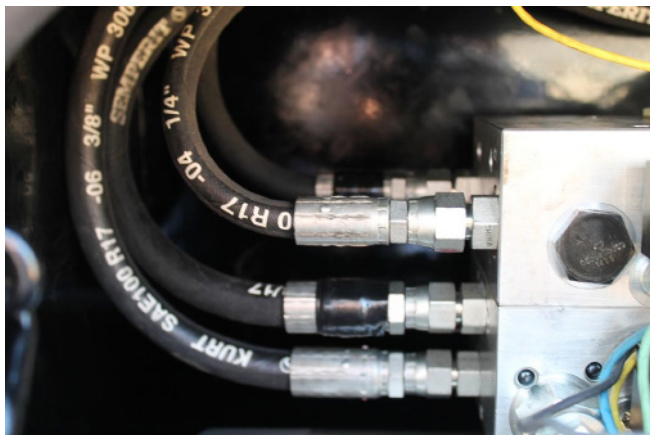
Hydraulics

Hydraulic System

- If the quick-couplers leak, the o-rings may need to be replaced.
- Heat 190° or greater, can be damaging to the hydraulic system. Check for “hot spots” which may indicate a problem.
- Run the bed at least twice a month to prevent valve condensation.

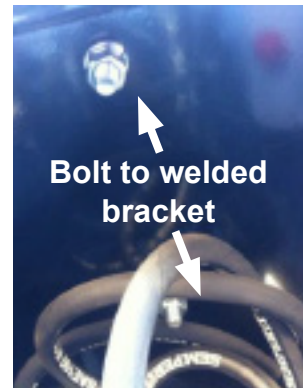
Hydraulic Hose Connections

- 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.



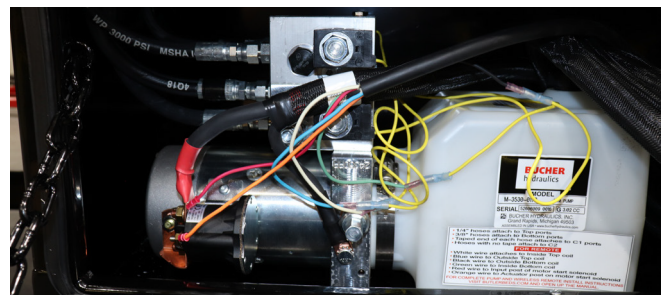
Toolbox Mounting

- 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”.

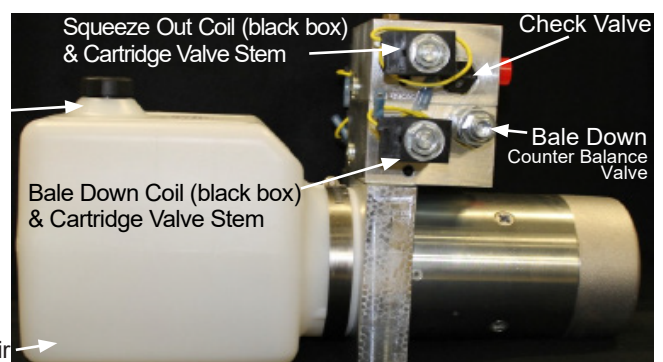
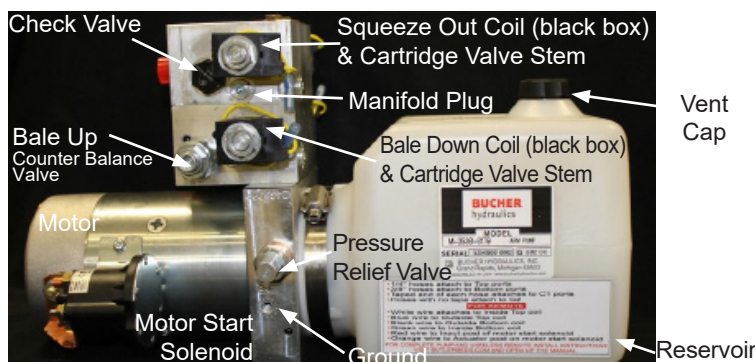


Mounting of Power Unit

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.



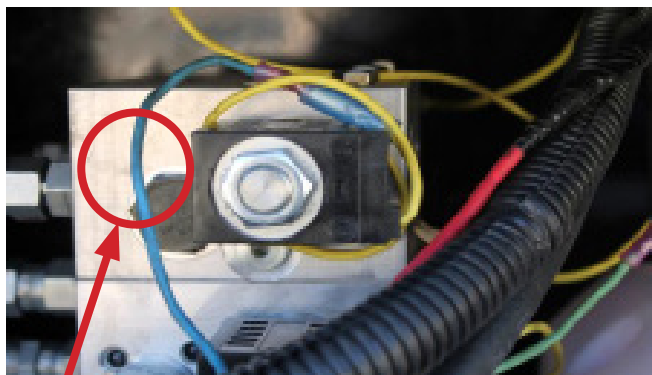
Power Unit Identification



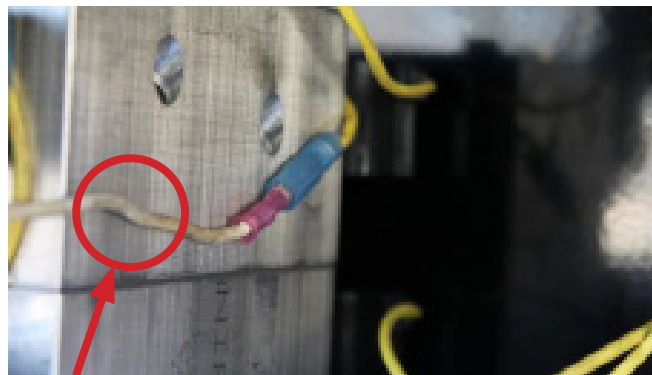
Corded Remote Wiring

- When wiring, inside coils are facing back of box. Outside coils are facing tool box lid.
- Ground should always be run to the negative battery terminal.

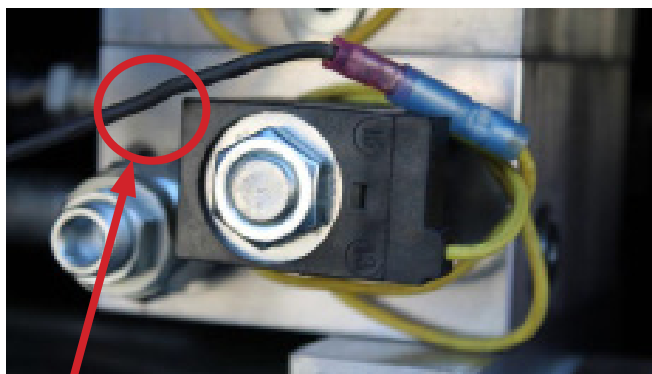
Blue wire attaches to the top outside manifold coil. This is the “OUT” on the arm wired remote.



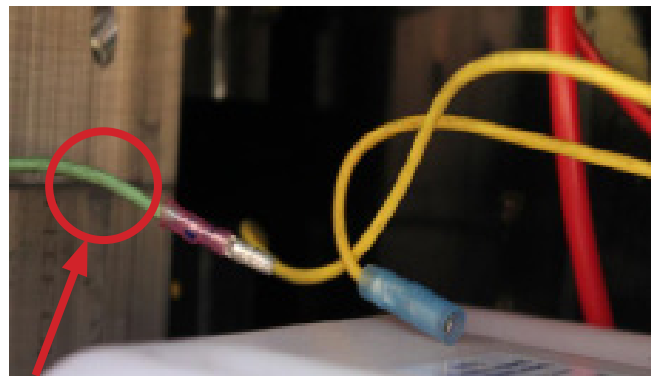
White wire attaches to the top inside manifold coil. This is the “IN”.



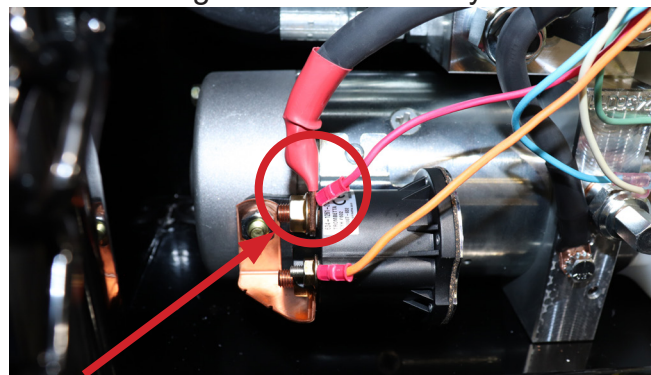
Black wire attaches to the bottom outside manifold coil. This is “DOWN”.



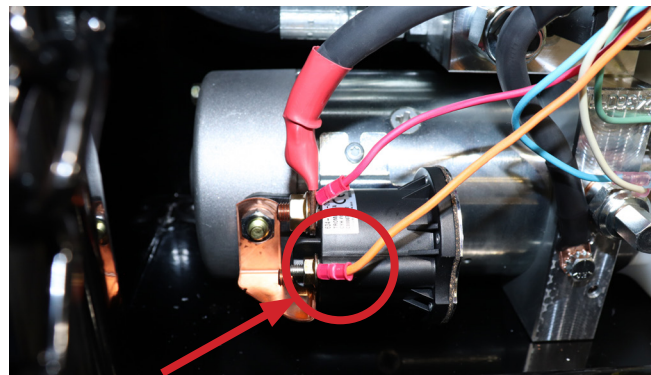
Green wire attaches to the bottom inside manifold coil. This is the “UP”.



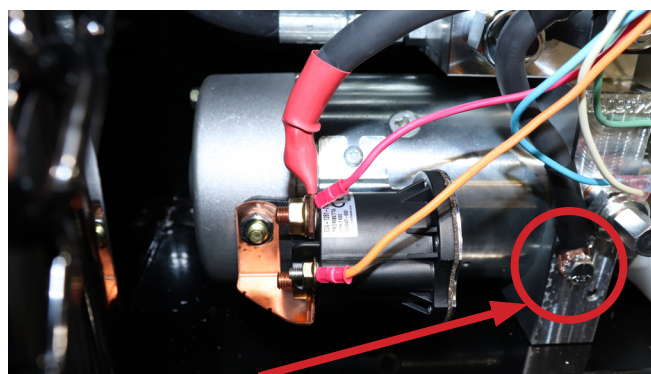
Red wire attaches to the input on the motor start solenoid along with the red battery cable.



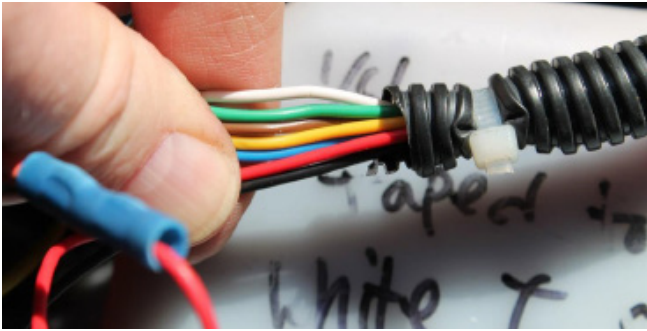
Orange wire attaches to the actuator (small post) on the motor start solenoid.



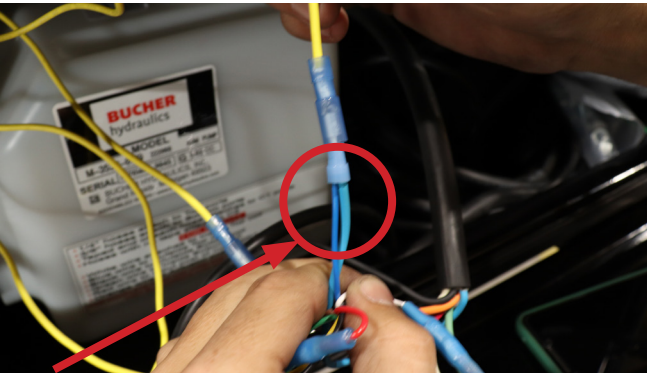
Ground wire attaches to the bottom of the pump block.



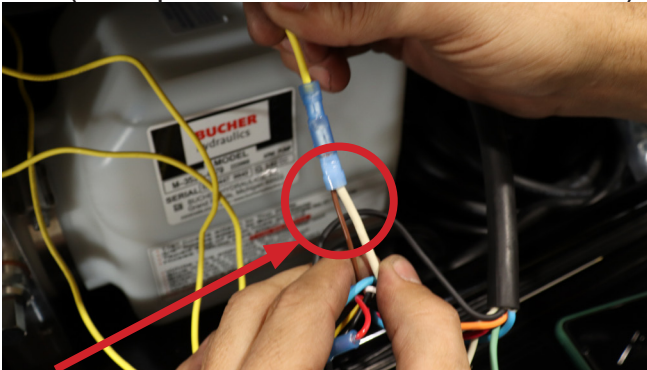
Wireless Remote Wiring



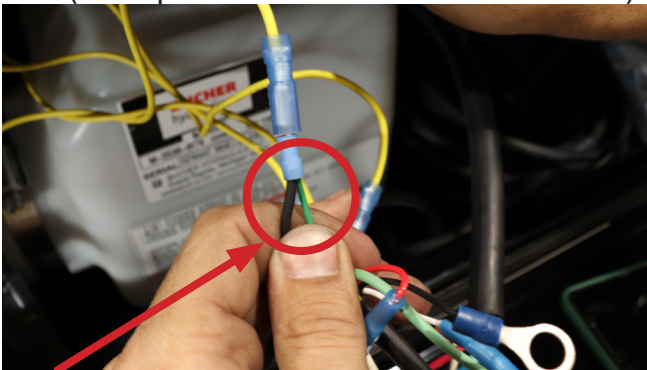
Blue wire attaches to top outside manifold coil. (butt splice with blue hand control wire)



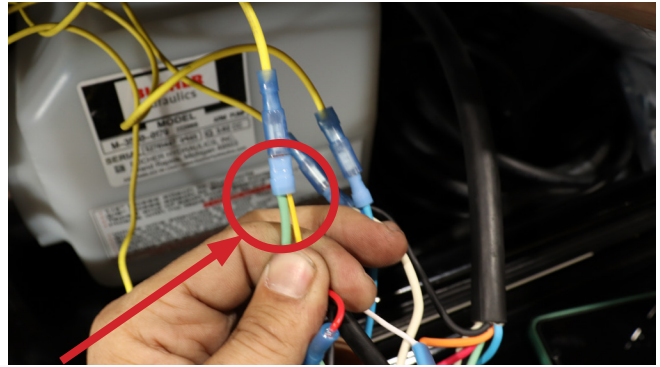
Brown wire attaches to top inside manifold coil. (butt splice with white hand control wire)



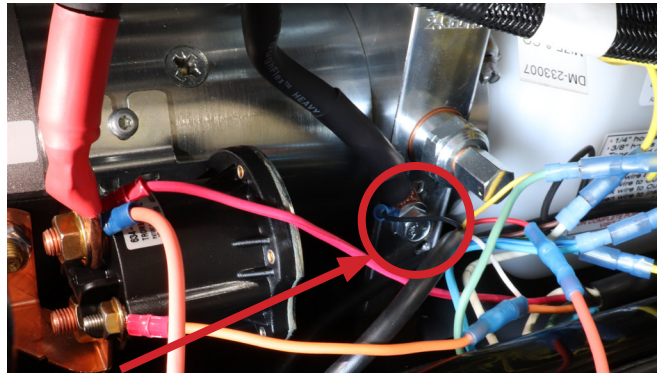
Green wire attaches to bottom outside manifold coil. (butt splice with black hand control wire)



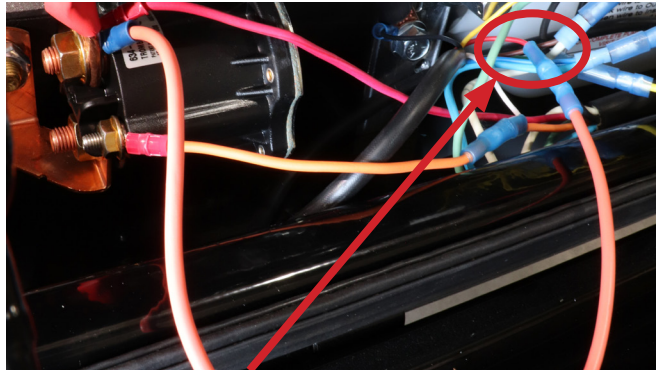
Yellow wire attaches to bottom inside manifold coil. (butt splice with green hand control wire)



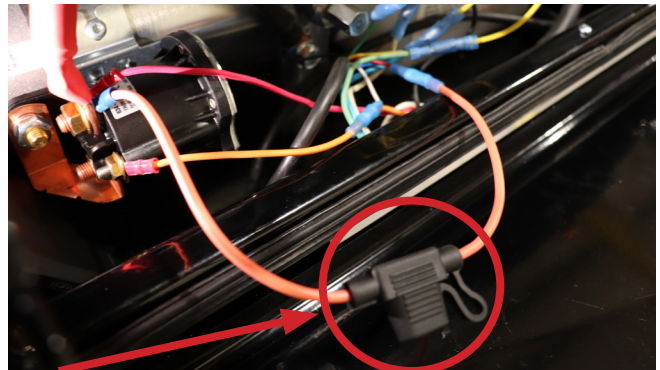
Black wire attaches to bottom of block.



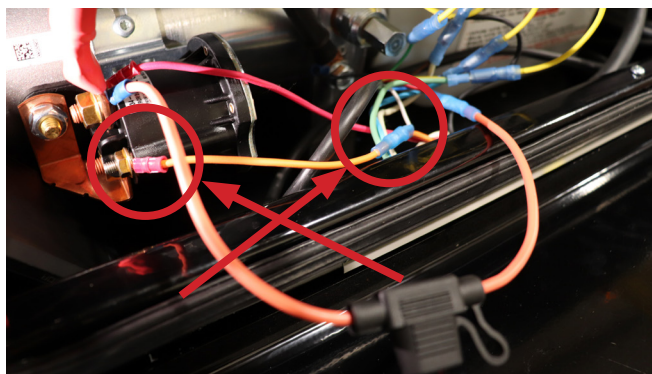
Red wire attaches to in-line 15 amp resettable/replaceable fuse.



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



Butt splice white wire to orange wire attached to the actuator on motor start solenoid.

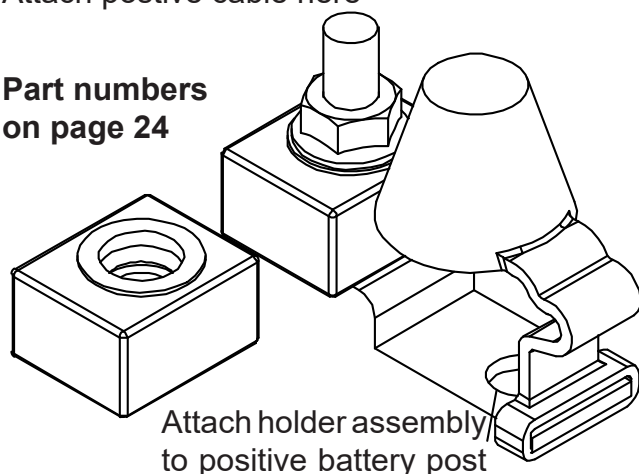


Fuse & Fuse Holder

The 250 amp (Arm Bed) or the 200 amp (Spike Bed) fuse and holder attach to the battery's positive post.

Attach positive cable here

Part numbers
on page 24



Older Butler Beds may have fuses as shown below. They can be sourced outside the company or upgraded to our "ice cube" style.



Wireless Remote Pairing

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.



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 POSITION



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.)	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.

Bucher Motor Specs.		
PSI	AMP DRAW	GPM
50	96	4.59
250	114	3.94
500	137	3.32
750	159	2.86
1000	180	2.52
1250	201	2.25
1500	221	2.03
1750	241	1.86
2000	260	1.71
2250	279	1.59
2500	297	1.48
2750	315	1.38
3000	332	1.28

NOTE: The power unit is configured to lift heavier bales. Speed for lighter bales is adjusted by the counter-balance valve. Turn the counter-balance valve set screw counter clockwise until bale will not lift, and then turn the same screw clockwise by ¼ turns until bale will lift properly multiple times.



ARM BED

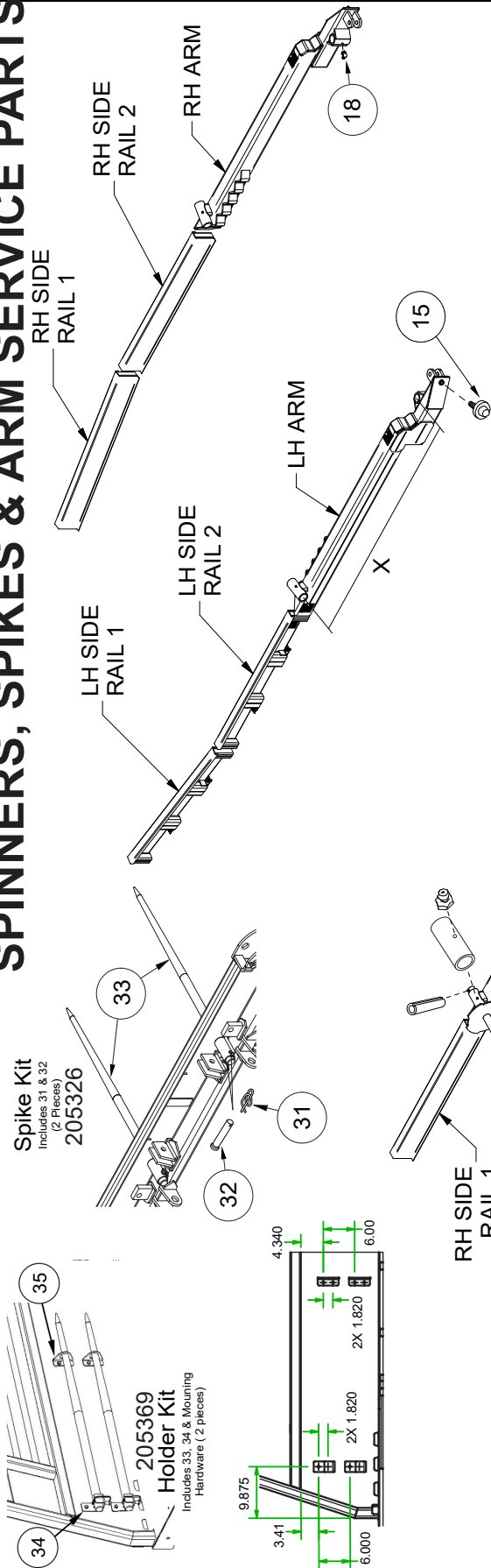
PARTS

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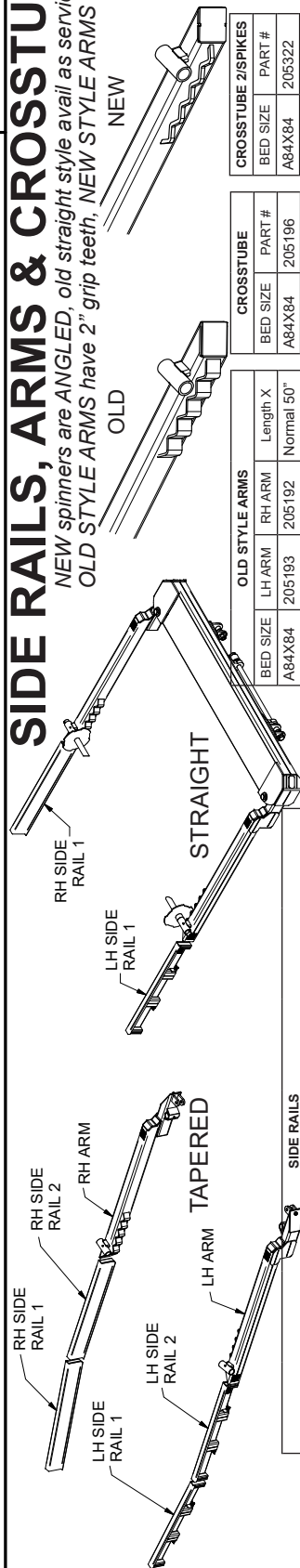
SPINNERS, SPIKES & ARM SERVICE PARTS



Parts List			DESCRIPTION
ITEM	QTY	PART #	
1	2	285026	SPINNERS
2	2	112121	ROLL PIN, 3/8 X 2
3	2	110364	BOLT, 1-8 X 7 GR5 ZINC
4	4	110038	WASHER, 1 FLAT ZINC
5	2	280017	PIN TUBE, ARM
6	4	110601	NUT, 1-8 GR5 ZINC
7	2	110208	BOLT, 1-8 X 5 HHCS Gr 5 Zinc
8	2	280018	PIN TUBE, 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, 1 X 3.5
14	1	102122	LOCKING COTTER RING 1"
15	1	112124	BUMPER, ARM
16	2	280014	TUBE, SPINNER
17	2	510174	GREASE ZERK, 1/4-28, Std
18	2	500230	GREASE ZERK, 1/4-28 90°
31	2	102122	LOCKING COTTER RING 1"
32	2	111214	PIN, 1/2" DIAMETER
33	2	212045	SPIKE, BUTLER ARM BED
34	2	281020	BRACKET, SPIKE HOLDER
35	2	281062	BRACKET, SPIKE SUPPORT

SIDE RAILS, ARMS & CROSSTUBES

NEW spinners are ANGLED, old straight style avail as service part.

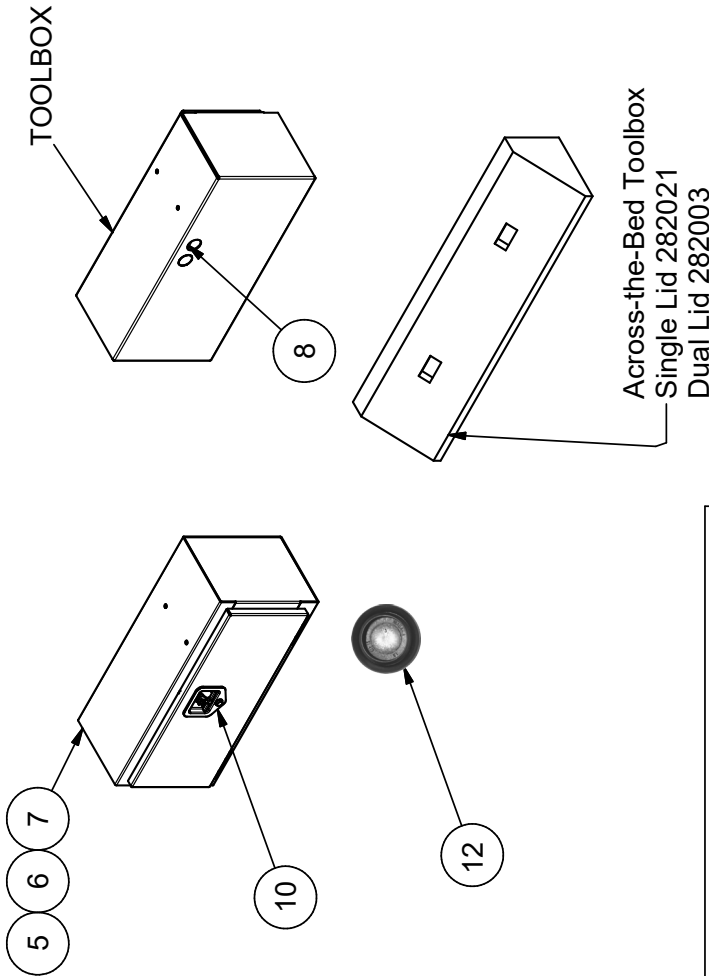
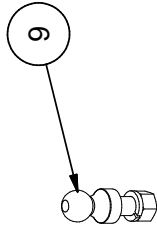


BED SHAPE	BED SIZE	SIDE RAILS				OLD STYLE ARMS				CROSSSTUBE		CROSSTUBE 2/SPIKES
		LH RAIL 1	RH RAIL 1	LH RAIL 2	RH RAIL 2	Length X	BED SIZE	LH ARM	RH ARM	BED SIZE	PART #	
A84X84	Straight	205232	205231	N/A	N/A	Normal 50"	A84X84	205193	205192	A84X84	205196	A84X84 205322
A84X84	Straight	205238	205237	N/A	N/A	Short 41"	A84X84	205193	205234	A84X84	205196	A84X84 205322
A84X101	Straight	205195	205194	N/A	N/A	Normal 50"	A84X101	205193	205192	A84X101	205196	A84X101 205322
A84X101	Straight	205195	205194	N/A	N/A	41CF 48"	A84X101	205193	205192	A84X101	205196	A84X101 205322
A84X108	Straight	205226	205227	N/A	N/A	Normal 50"	A84X108	205193	205192	A84X108	205196	A84X108 205322
A84X113	Straight	205224	205224	N/A	N/A	Normal 50"	A84X113	205228	205221	A84X113	205197	A84X113 205323
A90X108	Tapered	205195	205194	205254	205254	Normal 50"	A90X108	205228	205221	A90X108	205197	A90X108 205323
A90X108	Straight	205226	205227	N/A	N/A	Normal 50"	A90X108	205228	205221	A90X108	205197	A90X108 205323
A90X113	Tapered	205195	205194	205211	205211	Normal 50"	A90X113	205228	205221	A90X113	205198	A90X113 205324
A90X113	Straight	205224	205225	N/A	N/A	Normal 50"	A90X113	205228	205221	A90X113	205198	A90X113 205324
A90X137	Tapered	205195	205194	205195	205194	Normal 50"	A90X137	205228	205221	A90X137	205198	A90X137 205324
A90X137	Straight	205342	205343	N/A	N/A	Normal 50"	A90X137	205228	205221	A90X137	205198	A90X137 205324
A94X84	Straight	205232	205231	N/A	N/A	Normal 50"	A94X84	205228	205221	A94X84	205198	A94X84 205324
A94X84	Straight	205238	205237	N/A	N/A	Short 41"	A94X84	205287	205268	A94X84	205198	A94X84 205324
A94X101	Tapered	205195	205194	N/A	N/A	Normal 50"	A94X101	205228	205221	A94X101	205198	A94X101 205324
A94X101	Tapered	205195	205194	N/A	N/A	41CF 48"	A94X101	205228	205221	A94X101	205198	A94X101 205324
A94X101	Straight	205195	205194	N/A	N/A	Normal 50"	A94X101	205228	205221	A94X101	205198	A94X101 205324
A94X108	Tapered	205254	205254	205195	205194	Normal 50"	A94X108	205228	205221	A94X108	205198	A94X108 205324
A94X108	Straight	205226	205227	N/A	N/A	Normal 50"	A94X108	205228	205221	A94X108	205198	A94X108 205324
A94X113	Tapered	205195	205194	205211	205211	Normal 50"	A94X113	205228	205221	A94X113	205198	A94X113 205324
A94X113	Straight	205224	205225	N/A	N/A	Normal 50"	A94X113	205228	205221	A94X113	205198	A94X113 205324
A94X137	Tapered	205195	205194	205195	205194	Normal 50"	A94X137	205228	205221	A94X137	205198	A94X137 205324
A94X137	Straight	205342	205343	N/A	N/A	Normal 50"	A94X137	205228	205221	A94X137	205198	A94X137 205324
A96X84	Straight	205232	205231	N/A	N/A	Normal 50"	A96X84	205228	205221	A96X84	205198	A96X84 205324
A96X84	Straight	205238	205237	N/A	N/A	Short 41"	A96X84	205287	205268	A96X84	205198	A96X84 205324
A96X101	Tapered	205195	205194	N/A	N/A	Normal 50"	A96X101	205228	205221	A96X101	205198	A96X101 205324
A96X101	Tapered	205195	205194	N/A	N/A	41CF 48"	A96X101	205228	205221	A96X101	205198	A

TOOLBOXES, HITCH BALL & MUDFLAPS

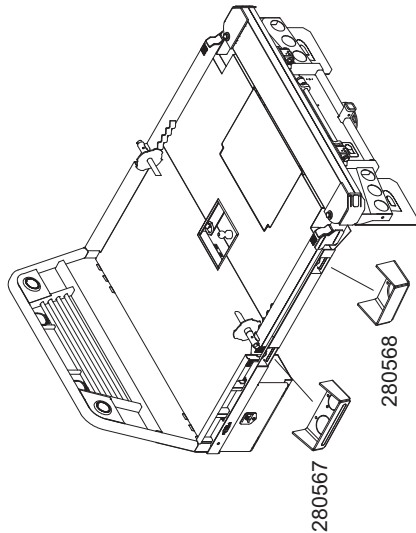
TOOLBOX SEAL 102030	
Size (inches)	Seal (feet)
18	5
20	5.5
24	6
30	7
36	8

*Alternate Ball
W/ Short Threads
281080

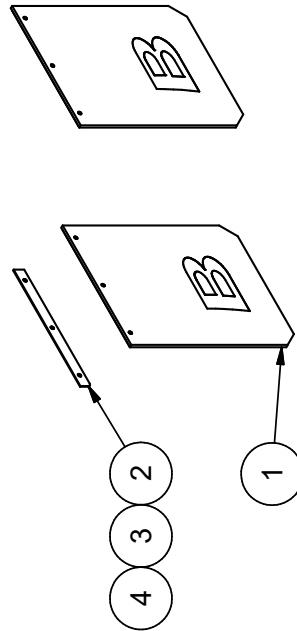


FRONT TOOLBOXES	
SIZE (IN)	RH PART #
18	282004
20	282005
30	282001
36	282008

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



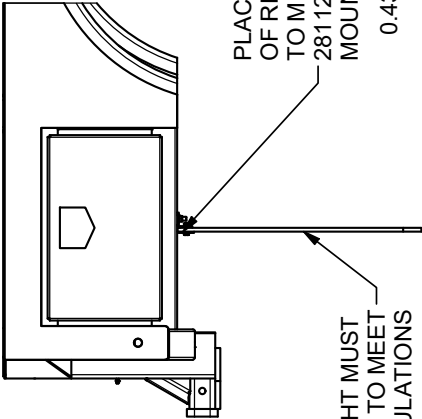
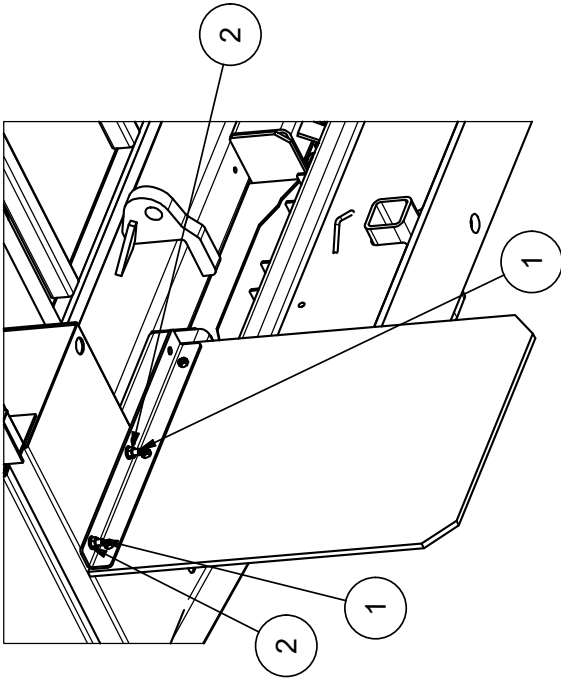
Part #	Description
280567	Bracket, Fuel and DEF Fill (Not Painted)
280568	Bracket, Fuel Fill, C&C Rear (Not Painted)



Parts List	
ITEM	QTY
1	2
2	2
3	6
4	6
5	8
6	8
7	8
8	2
9	1
10	2
11	1
12	2

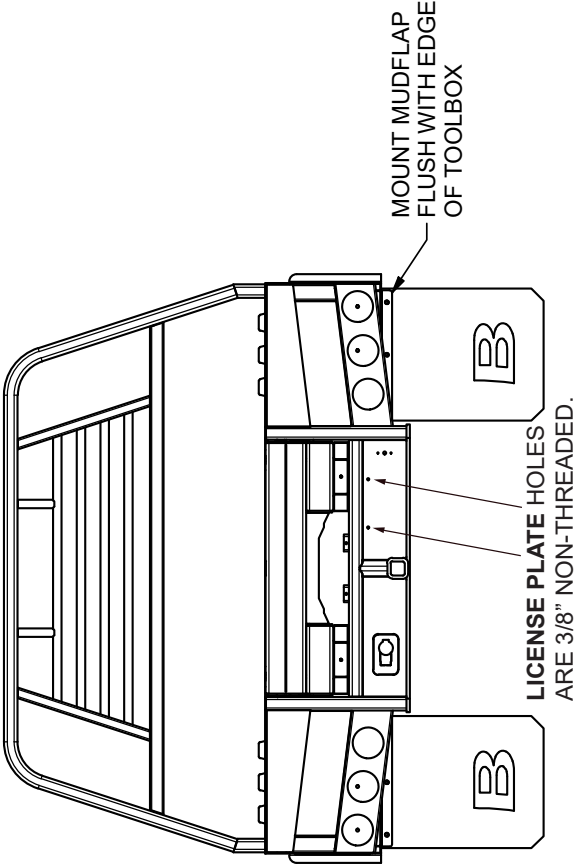
PART #	DESCRIPTION
202137	Mudflap, Butler, 24"
281265	Plate, Mudflap, 19 X 1.5, 3 Holes
110423	BOLT, 5/16-18 x 1 GR5 ZINC
110608	NUT, 5/16-18 GR5 ZINC
110440	BOLT, 3/8-16 X 1 GR5 ZINC
110676	WASHER, 3/8 LOCK ZINC
110645	NUT, 3/8-16 GR5 ZINC
112123	GROMMET, RUBBER 1 1/2 ID
212032	Hitch Ball, 2 5/16 X 1 3/8 X 1 with hardware
282011	Latch, Toolbox
202148	Decal, Pin Stripe, White 150 FT Roll
102053	Plug, Recessed Button 1.00

MUDFLAP MOUNT



PLACE MUDFLAP ON BOTTOM SIDE OF REAR BOX. PLACE APPROPRIATELY TO MISS EXHAUST SYSTEM. USE BRACKET 281125 AS A TEMPLATE FOR DRILLING MOUNTING HOLES. DRILL HOLES 0.438 (7/16 INCH)

MUDFLAP HEIGHT MUST BE TRIMMED TO MEET LOCAL REGULATIONS



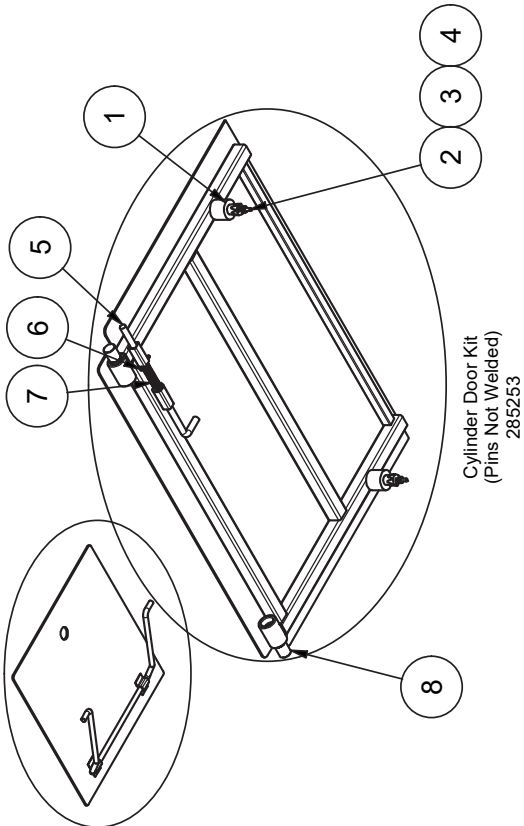
MOUNT MUDFLAP FLUSH WITH EDGE OF TOOLBOX

LICENSE PLATE HOLES ARE 3/8" NON-THREADED.

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

GOOSENECK WELL DOOR KIT

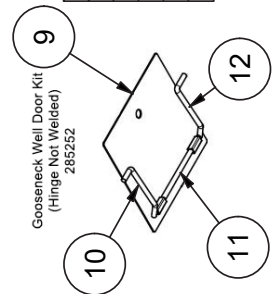
Gooseneck Well Door
Late 2022 Units
285850
One Piece Rod



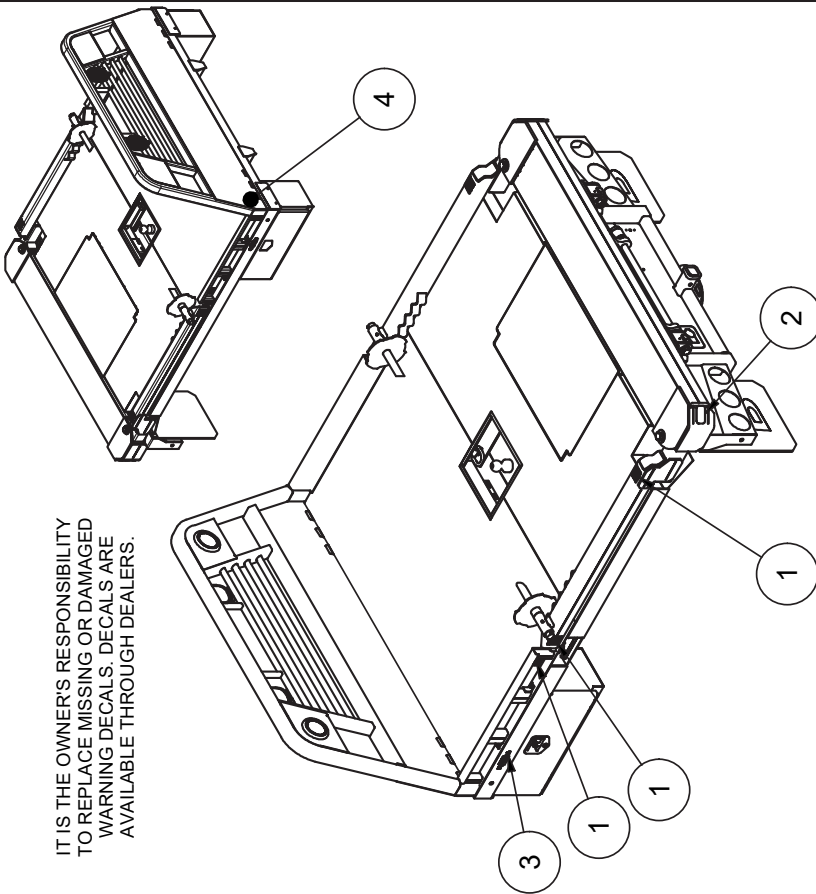
CYLINDER DOOR KIT 285253 SERVICE PARTS		
ITEM	QTY	PART # DESCRIPTION
1	2	112117 Door Holder, Rubber and Plastic
2	2	110406 Bolt, 1/4-20 X 2.25
3	2	110667 Washer, 1/4 Lock
4	2	110609 Nut, 1/4-20
5	1	280130 Rod, Service Door
6	1	110279 Roll Pin, 3/16 X 1 1/2
7	1	112114 Spring, Compression 5/8 X 2 7/5
8	2	280155 Pin , Door

Original Gooseneck Well Door Ended Late 2022 Beds
Three Piece Rod

Gooseneck Well Door Kit 285252 Service Parts		
ITEM	QTY	PART # DESCRIPTION
9	1	285233 DOOR, WA GOOSENECK WELL
10	1	280151 HINGE, STRAIGHT ROD
11	1	280150 HINGE, FRONT ROD
12	1	280154 HINGE, REAR ROD



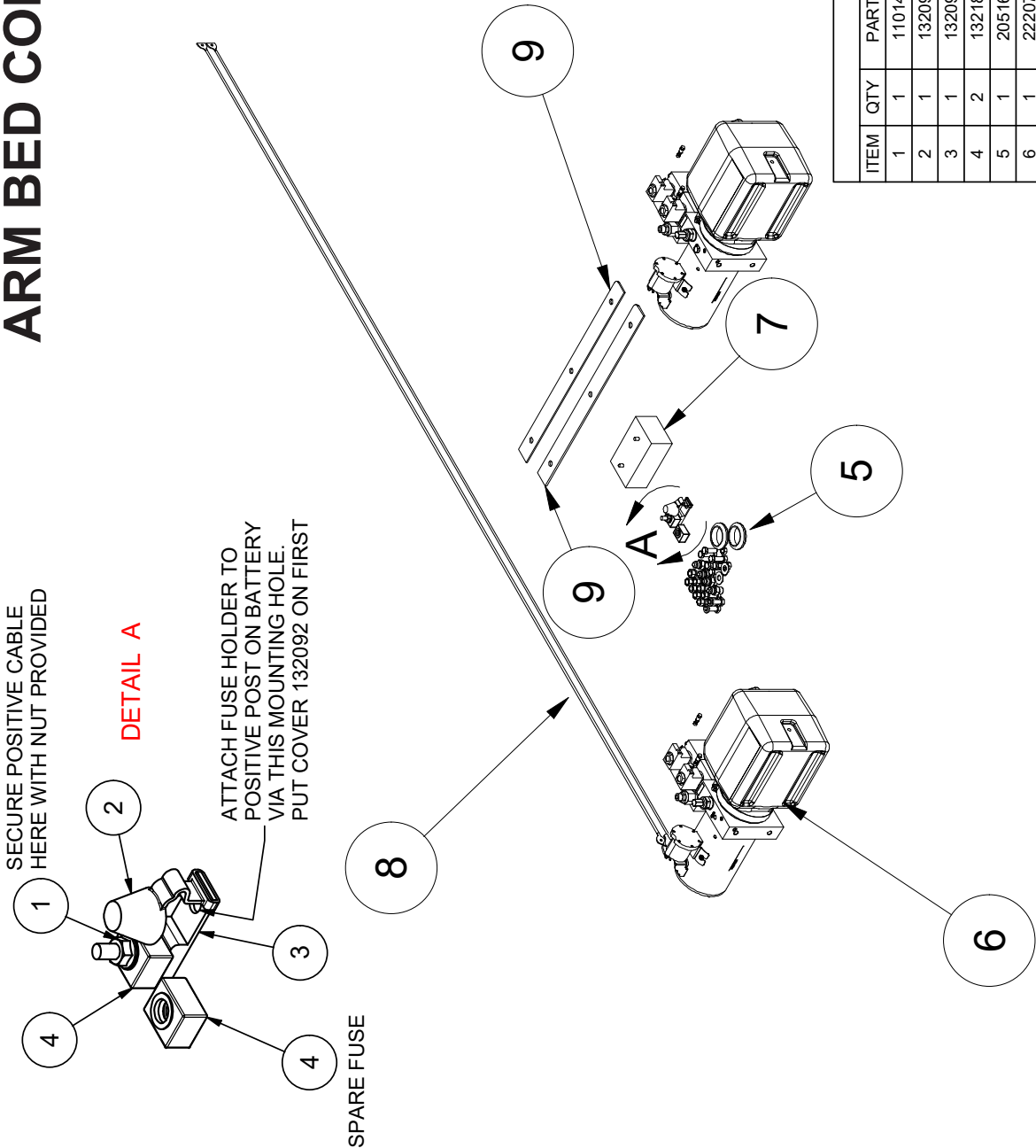
IT IS THE OWNER'S RESPONSIBILITY
TO REPLACE MISSING OR DAMAGED
WARNING DECALS. DECALS ARE
AVAILABLE THROUGH DEALERS.



PARTS LIST		
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

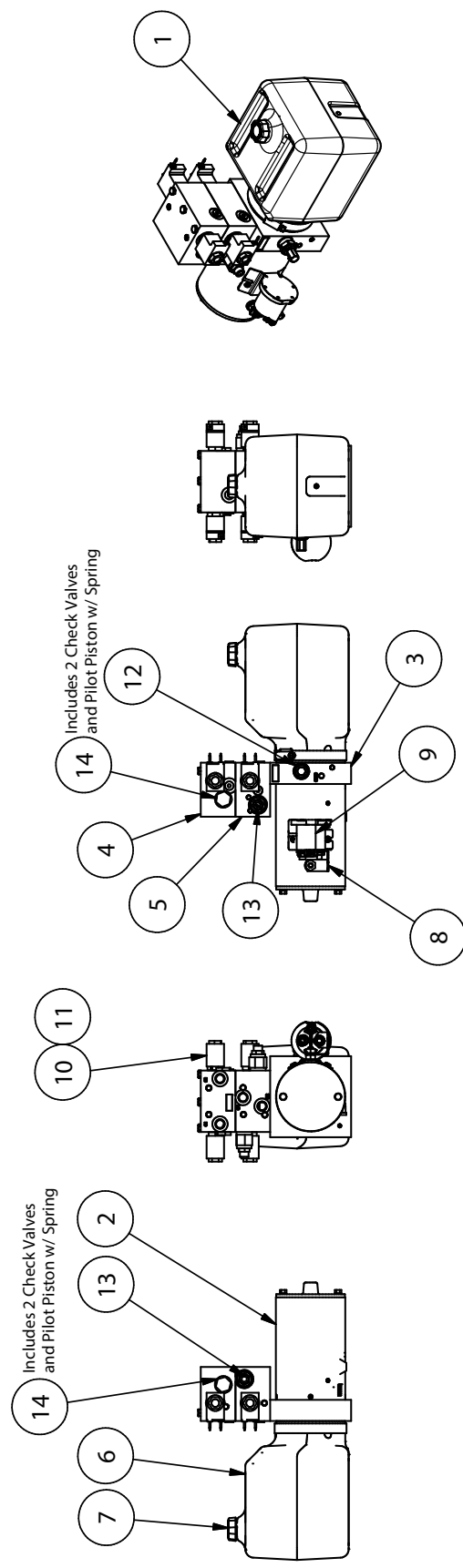
DECALS

ARM BED COMPLETING KIT



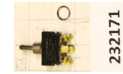
Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	1	110141	NUT, M8 X 1.25 WIZFLANGE
2	1	132092	FUSE COVER, BUSS CFCOVER-1R
3	1	132093	FUSE HOLDER, BUSS CFBAR1-M8XSP
4	2	132180	FUSE 250 AMP, BUSS MRBF-250
5	1	205160	Kit, bolt, arm bed, Butler
6	1	222074	Assembly, Power Unit, High
7	1	232150	Hand Control, Butler 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 PARTS & CONTROLS



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

Parts List				DESCRIPTION
ITEM	QTY	PART #		
1	1	222074		E/H unit, arm bed, Butler, Bucher 3330-0179
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	232088		VALVE, CARTRIDGE AB
11	4	212033		VALVE, COIL BUTLER
12	1	222104		VALVE, AB RELIEF
13	1	222105		VALVE, AB COUNTERBALANCE
14	1	232089		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



232171



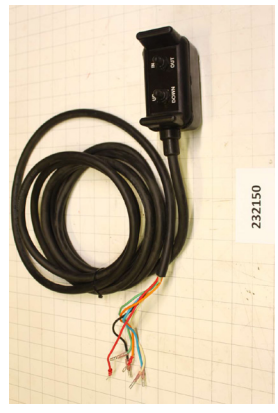
233007



233008

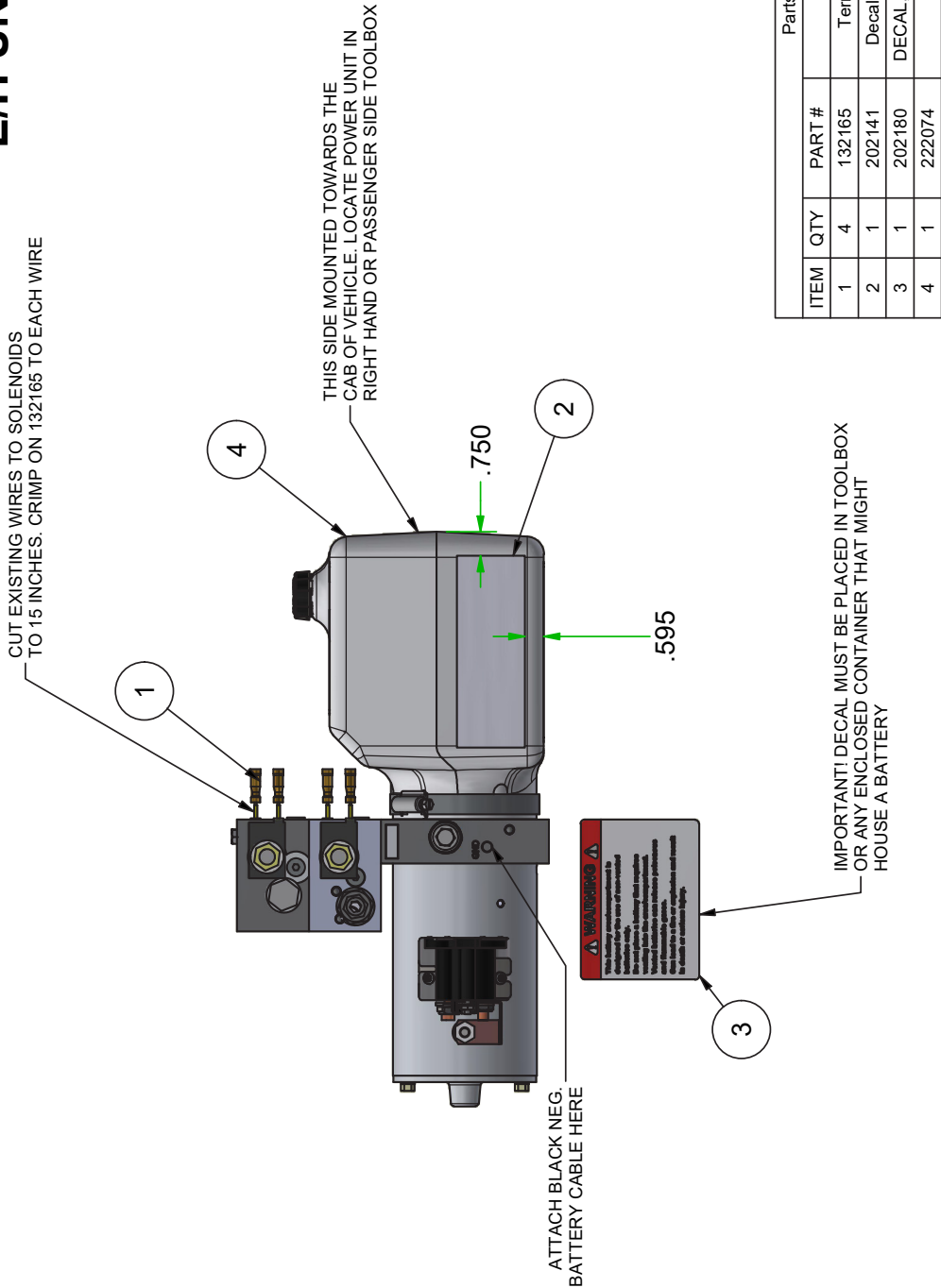


232166



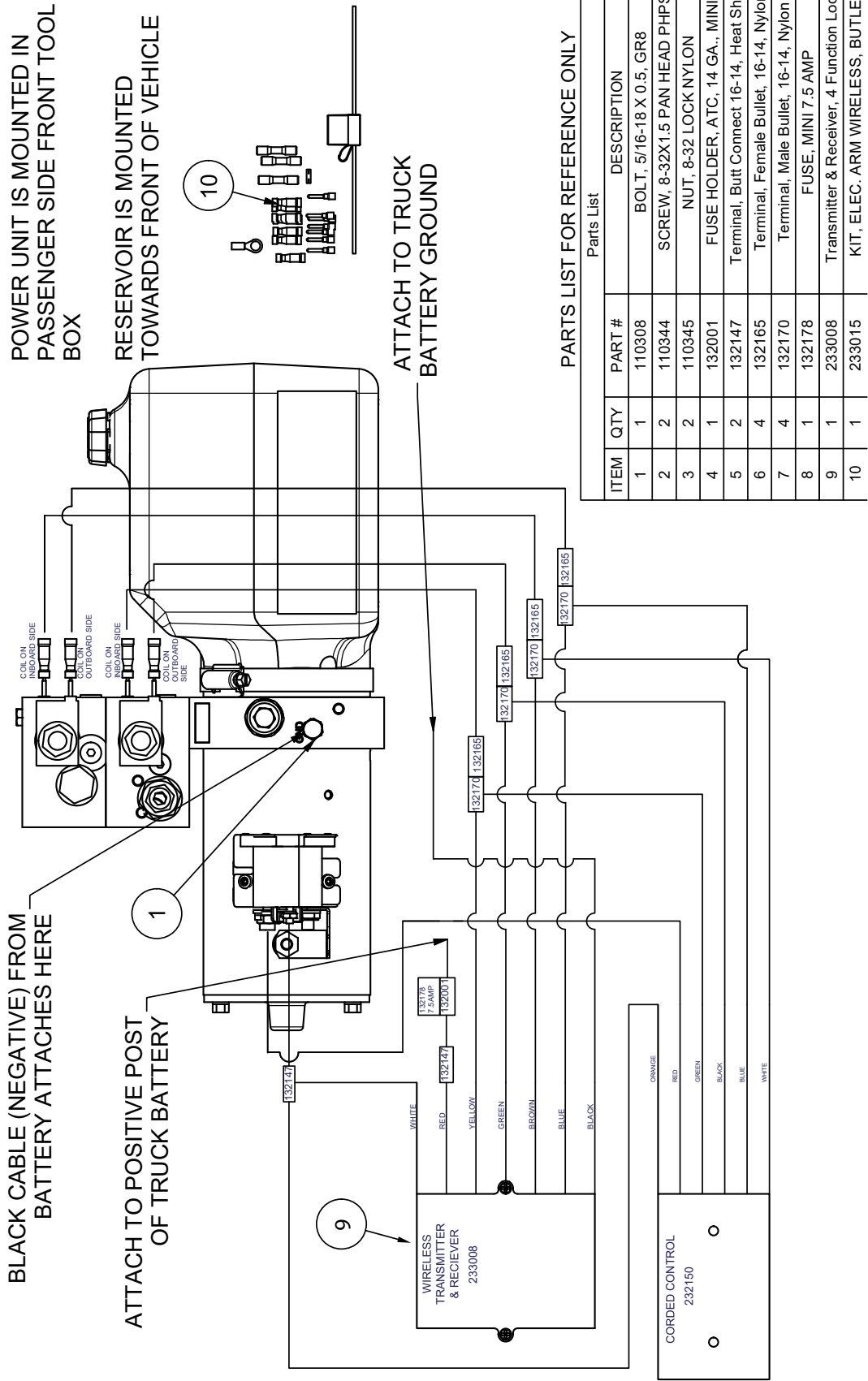
232150

E/H UNIT ASSEMBLY

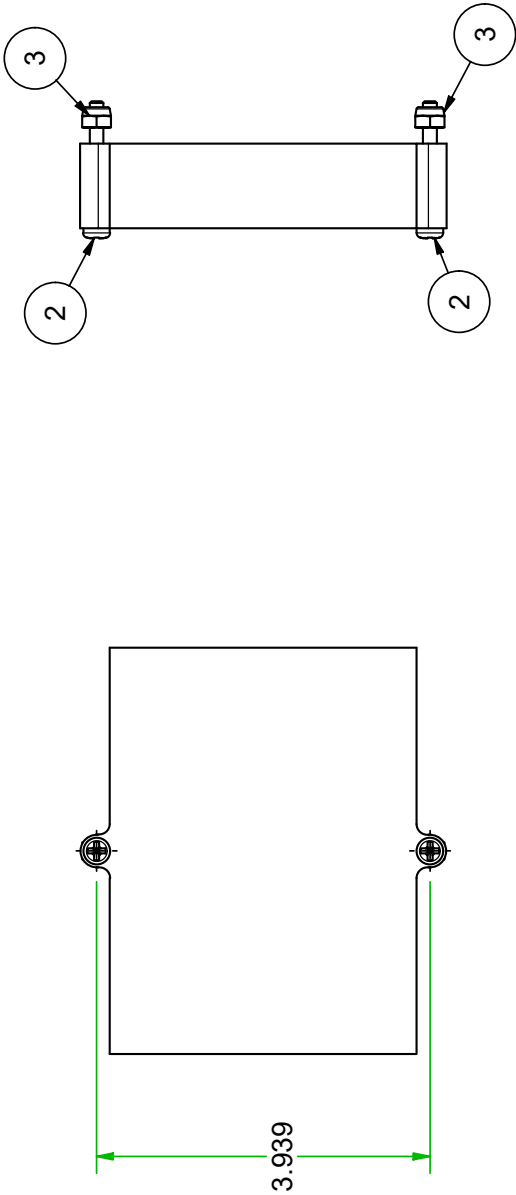


Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	4	132165	Terminal, Female Bullet, 16-14, Nylon
2	1	202141	Decal, 2 X 6 Arm Bed Remote instructions
3	1	202180	DECAL, NON-VENTED BATTERY WARNING
4	1	222074	AB POWER UNIT ASSY

WIRELESS & CORDED CONTROL SCHEMATIC



WIRELESS RECIEVER MOUNTING



DETAIL FOR MOUNTING WIRELESS
TRANSMITTER IN TOOLBOX

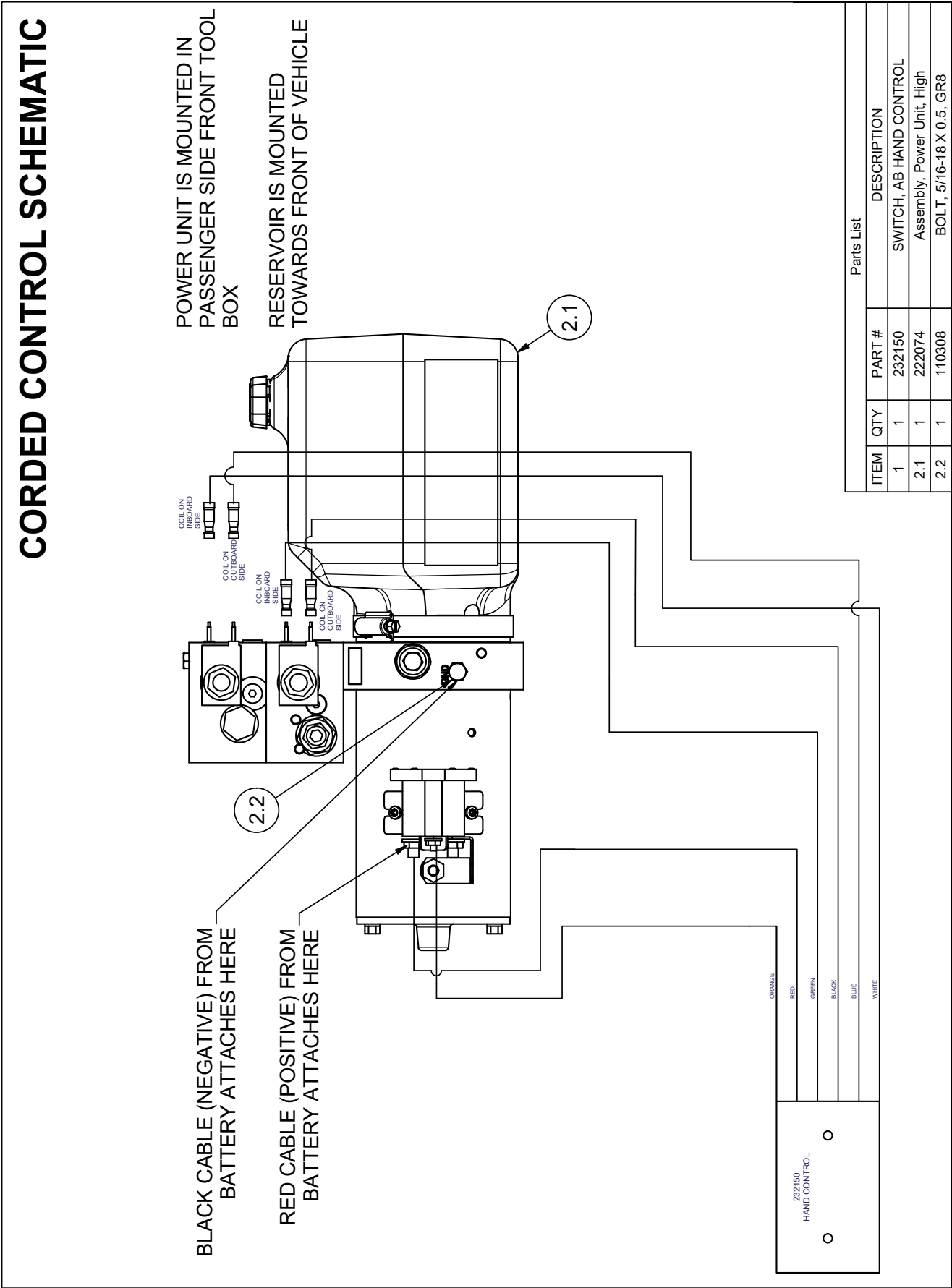
-MOUNT TRANSMITTER AS FAR AS
FEASIBLE IN UPPER RH CORNER OF
PASSENGER SIDE TOOLBOX

-DRILL 0.20 HOLES PER DIMENSIONS
NOTED

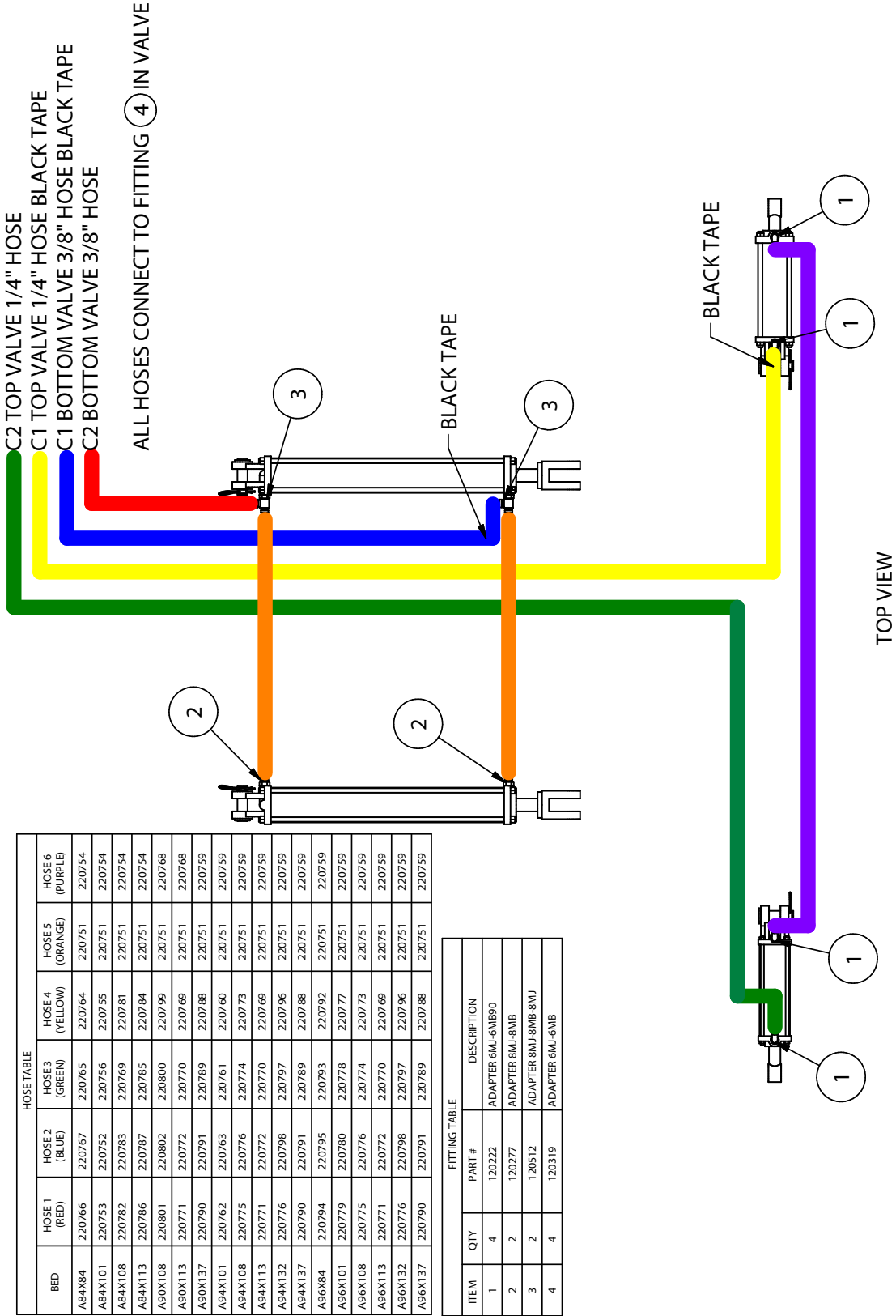
-USE NOTED HARWARE TO MOUNT

PARTS LIST FOR REFERENCE ONLY

Parts List		
ITEM	QTY	DESCRIPTION
1	1	BOLT, 5/16-18 X 0.5, GR8
2	2	SCREW, 8-32X1.5 PAN HEAD PHPS
3	2	NUT, 8-32 LOCK NYLON
4	1	FUSE HOLDER, ATC, 14 GA., MINI
5	2	Terminal, Butt Connect 16-14, Heat Shink
6	4	Terminal, Female Bullet, 16-14, Nylon
7	4	Terminal, Male Bullet, 16-14, Nylon
8	1	FUSE, MINI 7.5 AMP
9	1	Transmitter & Receiver, 4 Function Lodar
10	1	KIT, ELEC. ARM WIRELESS, BUTLER



HYDRAULIC HOSES



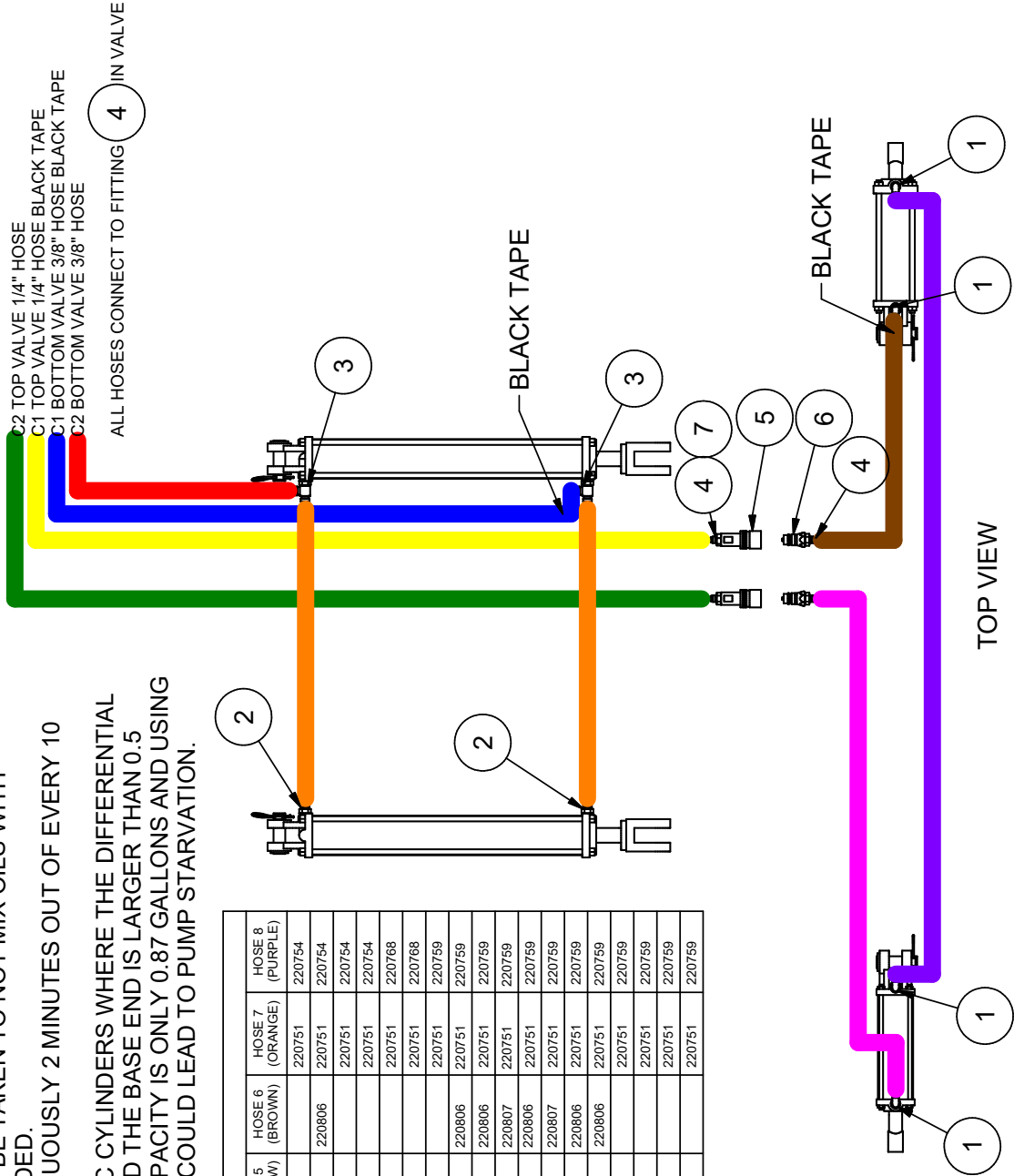
HYDRAULIC HOSES W/COUPLERS

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.

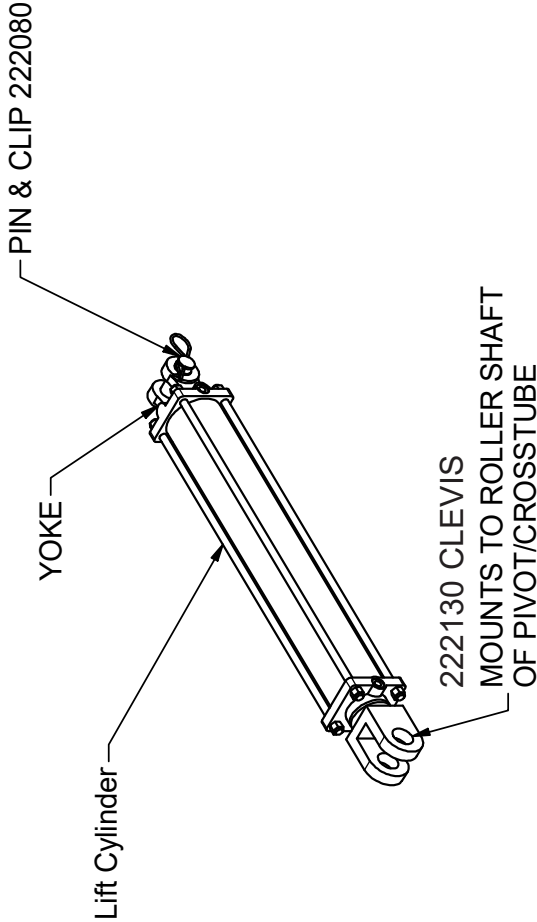
HOSE TABLE								
BED	HOSE 1 (RED)	HOSE 2 (BLUE)	HOSE 3 (GREEN)	HOSE 4 (PINK)	HOSE 5 (YELLOW)	HOSE 6 (BROWN)	HOSE 7 (ORANGE)	HOSE 8 (PURPLE)
A84X84	220766	220767						220754
A84X101	220753	220752	220805	220807	220804	220806	220751	220754
A84X108	220782	220783					220751	220754
A84X113	220786	220787					220751	220754
A90X108	220801	220802					220751	220768
A90X113	220771	220772					220751	220768
A90X137	220790	220791					220751	220759
A94X101	220762	220763	220805	220807	220804	220806	220751	220759
A94X108	220775	220776	220805	220807	220804	220806	220751	220759
A94X113	220790	220791	220822	220754	220823	220807	220751	220759
A94X132	220776	220798	220805	220807	220804	220806	220751	220759
A94X137	220790	220791	220822	220754	220823	220807	220751	220759
A96X84	220794	220795	220805	220807	220804	220806	220751	220759
A96X101	220779	220780	220805	220807	220804	220806	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-5MB90
2	2	120277 ADAPTER 8MJ-5MB
3	2	120512 ADAPTER 8MJ-5MB-8MJ
4	8	120319 ADAPTER 6MJ-6MB
5	2	120581 COUPLER, FEMALE ORB
6	2	120582 COUPLER, MALE ORB
7	2	120239 ADAPTER 6MJ-5MB (A94X113)

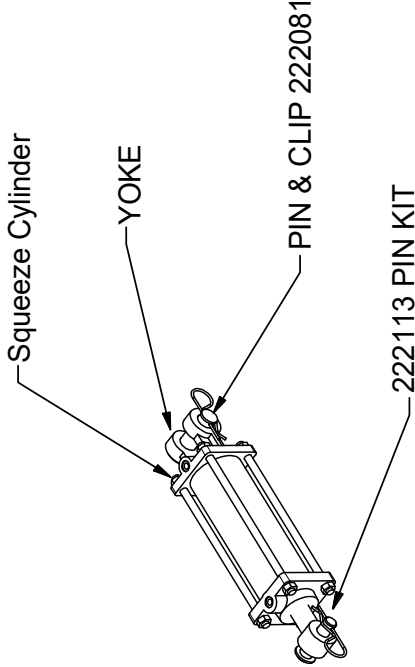


CLAMPS TO HOLD HOSES 102131 QTY 2
DUST CAPS 112127 QTY 2

Lift Cylinder Parts List		
ITEM	QTY	PART # DESCRIPTION
1	1	222070 Lift Cylinder (1.25 x 3.0 x 20)
2	1	222076 Yoke 3.0 Kit
3	1	222080 Pin & Clip (1.0 x 3.125)
4	1	222082 Seal Kit 2.0 x 3.0
5	1	222130 Clevis, Rod End, Lift Cylinder



Squeeze Cylinder Parts List		
ITEM	QTY	PART # DESCRIPTION
1	1	222066 NEW 6" Squeeze DRV (1.125 x 2.5 x 6)
2	1	222067 NEW 6" Squeeze PASS (1.125 x 2.75 x 6)
3	1	222096 OLD 4" Squeeze DRV (1.125 x 2.5 x 4)
4	1	222097 OLD 4" Squeeze PASS (1.125 x 2.75 x 4)



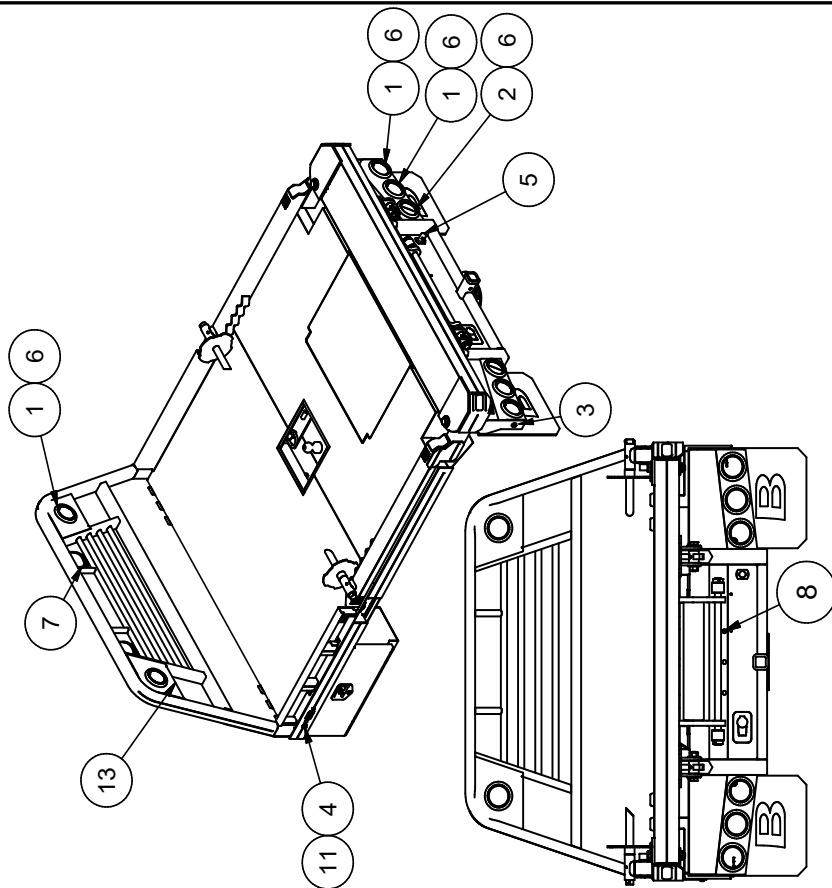
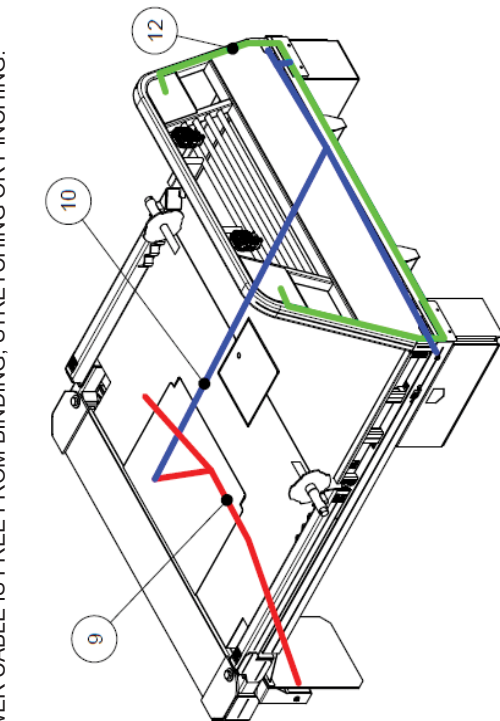
Service Parts DRV Squeeze Cylinders (4" or 6")		
ITEM	QTY	PART # DESCRIPTION
1	1	222078 Yoke Kit, 2.5
2	1	222081 Pin & Clip 1.0 x 2.75
3	1	222084 Seal Kit 1.125 x 2.5
4	1	222113 Pin Kit Ø.75 x 2.5

Service Parts PASS Squeeze Cylinders (4" or 6")		
ITEM	QTY	PART # DESCRIPTION
1	1	222079 Yoke Kit, 2.75
2	1	222081 Pin & Clip 1.0 x 2.75
3	1	222085 Seal Kit 1.125 x 2.75
4	1	222113 Pin Kit Ø.75 x 2.5

LIFT & SQUEEZE CYLINDERS

***GOOSENECK POWER:** HII DOES NOT SUPPLY THE CORDAGE FOR POWERING A GOOSENECK TRAILER. IT IS THE OWNER'S RESPONSIBILITY TO ENSURE THEIR POWER CABLE IS FREE FROM BINDING, STRETCHING OR PINCHING.

ELECTRICAL HARNESS & LIGHTS



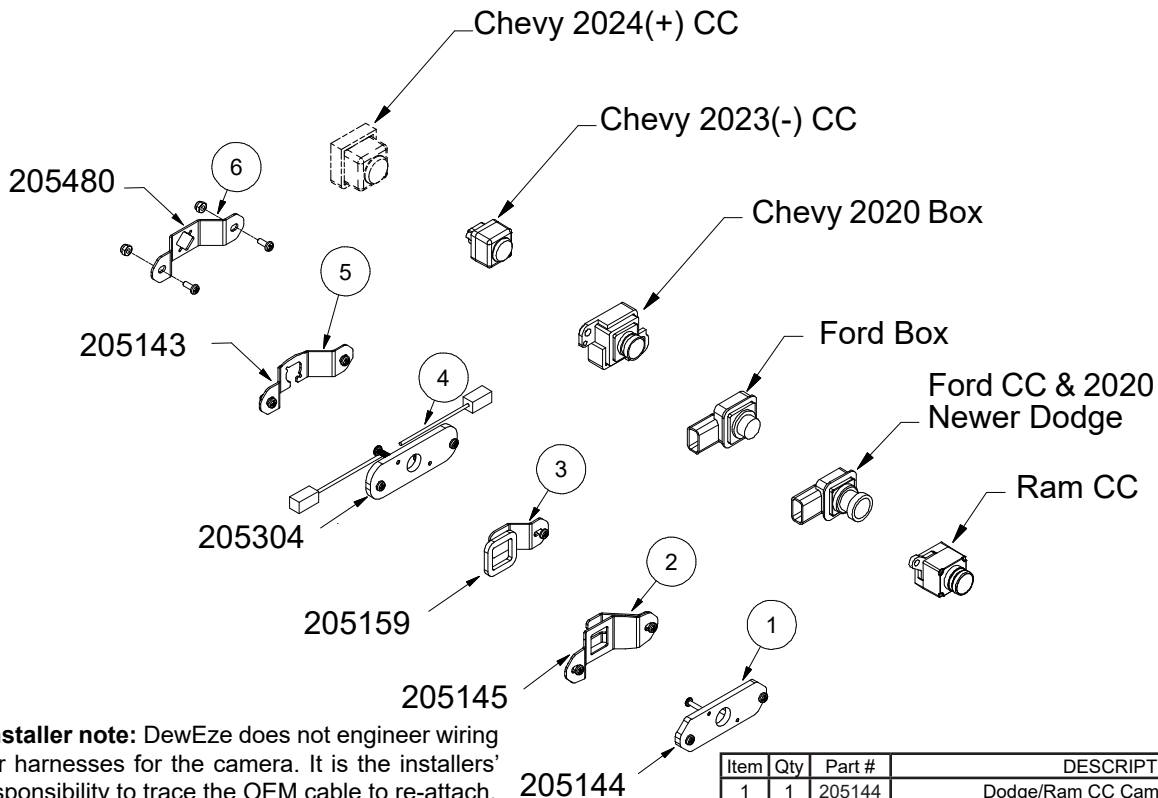
Butler to OEM Harness Adapters						
PART#	DESCRIPTION	MAKE	TYPE	START YR	END YR	
232161	Harness Adapter, FD CC	Ford	CC	1999		
232176	Harness Adapter, FD Box Delete, 2008-10	Ford	BTO	2008	2010	
232160	Harness Adapter, FD Box Delete, 2011-16	Ford	BTO	2011	2016	
232177	Harness Adapter, FD Box Delete, 2017-19	Ford	BTO	2017	2019	
232185	Harness Adapter, FD Box Delete, 2020+	Ford	BTO	2020		
232192	Harness BLIS, FD Box Delete, 2020+	Ford	BLIS	2020		
232234	Harness Adapter, Ford BTO	Ford	BTO	2024		
232174	Harness Adapter, GM 02-14 w/3rd Brake	GM	ALL	2002	2014	
232163	Harness Adapter, GM 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	
232179	Harness Adapter, 2019 MD Dty 4500-6500	GM	ALL	2019		
232187	Harness Adapter, GM CC 2020+	GM	CC	2020		
232178	Harness Adapter, 2020 GM 2500-3500	GM	ALL	2020		
232238	Harness Adapter, GM BTO	GM	BTO	2024		
232164	Harness Adapter, Ram CC	Dodge	CC	1999		
232233	Harness Adapter, Ram (LED)	Dodge	BTO	2016		
232193	Harness Adapter, Ram Box Delete, 2019+	Dodge	BTO	2019		
232162	Harness Adapter, Generic	ALL	ALL	1999		
232155	Harness, Front	ALL	ALL	ALL	ALL	
232157	Harness, Rear	ALL	ALL	ALL	ALL	
232156	Harness, Headache Rack	ALL	ALL	ALL	ALL	

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	225034	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	Current
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

REAR VIEW CAMERA MOUNTING KITS *



***Installer note:** DewEze does not engineer wiring nor harnesses for the camera. It is the installers' responsibility to trace the OEM cable to re-attach.

***Mount Disclaimer:** These mounting kits were designed for the most common mounting-to-camera. Manufacturers change camera styles & mountings even within the same year. Use best practices to modify if need be.

Item	Qty	Part #	DESCRIPTION
1	1	205144	Dodge/Ram CC Camera Mount Kit
2	1	205145	Ford Camera & Dodge 2020+ Mount Kit
3	1	205159	Ford Box Take-Off Camera Mount Kit
4	1	205304	Chevy/ GM 2020 Box Take-Off Camera Mount Kit
5	1	205143	Chevy/GM CC 2023- Camera Mount Kit
6	1	205480	Chevy/GM CC 2024+ Camera Mount Kit
7	1	261343	Camera Mount Weldment

BED LENGTHS FOR CAKE FEEDERS

(HEADACHE RACK TO GOOSENECK WELL)

Model Name	Type	Width	Length	Headache Rack to Front of Gooseneck Well Door
A84X84	arm	84	84	24
A84X101	arm	84	101	41
A84X108	arm	84	108	46.25
A84X113	arm	84	113	51.25
A90X108	arm	90	108	46.25
A90X113	arm	90	113	51.25
A90X137	arm	90	137	75.25
A94X84	arm	94	84	24
A94X101	arm	94	101	41
A94X108	arm	94	108	46.25
A94X113	arm	94	113	51.25
A94X132	arm	94	132	70.25
A94X137	arm	94	137	75.25
A96X84	arm	96	84	24
A96X101	arm	96	101	41
A96X108	arm	96	108	46.25
A96X113	arm	96	113	51.25
A96X132	arm	96	132	70.25
A96X137	arm	96	137	75.25
S80X86	spike	80	86	24
S80X102	spike	80	102	41
S80X110	spike	80	110	46.25
S80X115	spike	80	115	51.25
S84X86	spike	84	86	24
S84X102	spike	84	102	41
S84X110	spike	84	110	46.25
S84X115	spike	84	115	51.25
S90X110	spike	90	110	46.25
S90X115	spike	90	115	51.25
S90X139	spike	90	139	75.25
S94X86	spike	94	86	24
S94X102	spike	94	102	41
S94X110	spike	94	110	46.25
S94X115	spike	94	115	51.25
S94X134	spike	94	134	70.25
S94X139	spike	94	139	75.25
S96X86	spike	96	86	24
S96X102	spike	96	102	41
S96X110	spike	96	110	46.25
S96X115	spike	96	115	51.25
S96X134	spike	96	134	70.25
S96X139	spike	96	139	75.25
R80X86	regular	80	86	24
R80X102	regular	80	102	41
R80X110	regular	80	110	46.25
R80X115	regular	80	115	51.25
R84X86	regular	84	86	24
R84X102	regular	84	102	41
R84X110	regular	84	110	46.25
R84X115	regular	84	115	51.25
R90X110	regular	90	110	46.25
R90X115	regular	90	115	51.25
R90X139	regular	90	139	75.25
R94X86	regular	94	86	24
R94X102	regular	94	102	41
R94X110	regular	94	110	46.25
R94X115	regular	94	115	51.25
R94X134	regular	94	134	70.25
R94X139	regular	94	139	75.25
R96X86	regular	96	86	24
R96X102	regular	96	102	41
R96X110	regular	96	110	46.25
R96X115	regular	96	115	51.25
R96X134	regular	96	134	70.25
R96X139	regular	96	139	75.25

NOTES

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