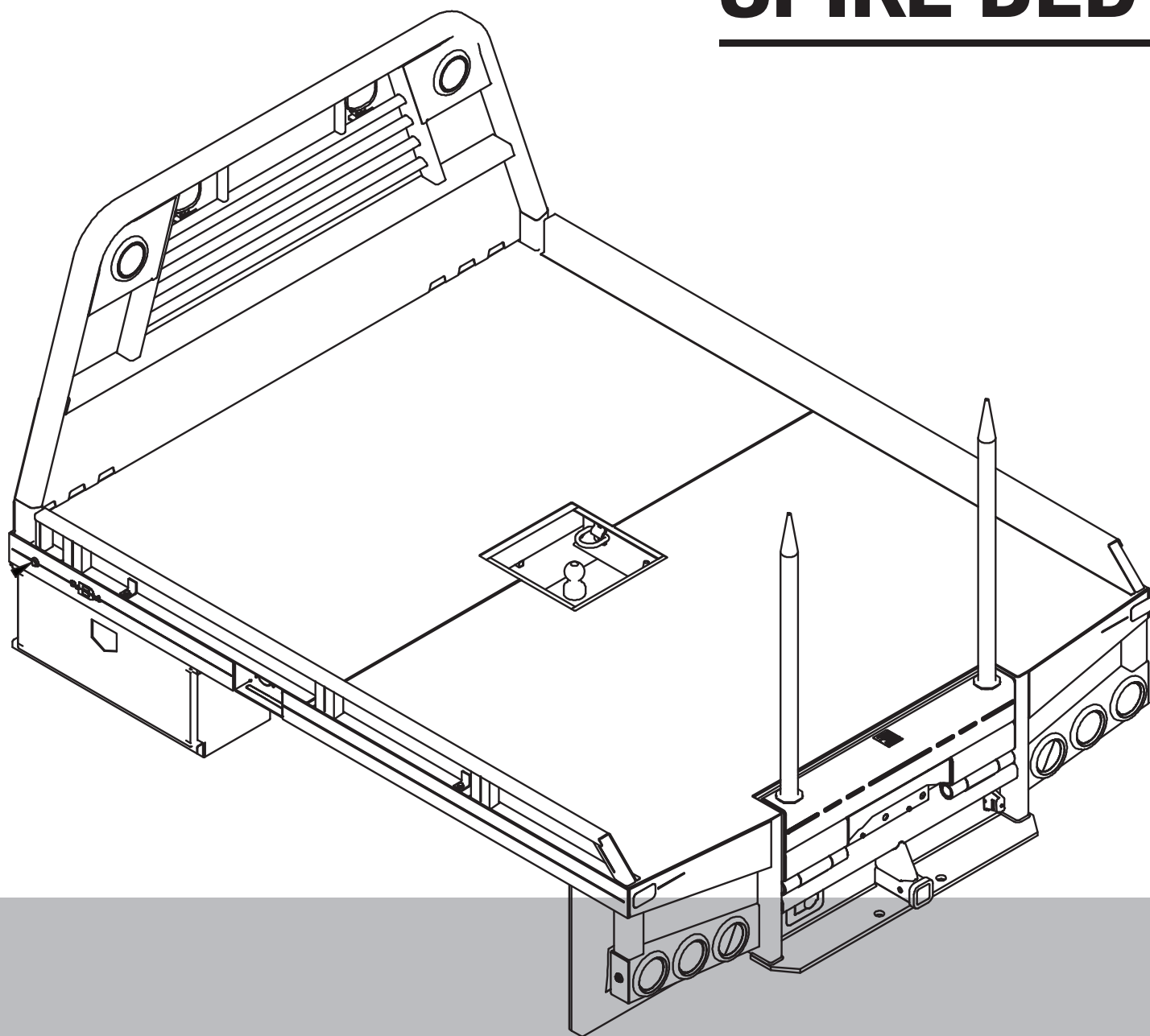


SPIKE BED



Butler Beds

Thank you for purchasing a Butler Spike 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 Spike 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 Spike Bed. Read and understand the manual thoroughly before operation to avoid damage to the unit or injury to the operator or bystanders.

A Spike 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

Email info@butlerbeds.com

Website www.butlerbeds.com

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Statement of Warranty 1/11/2025

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. 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 (including belts, battery, chains, filters).

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

Model Specifications

MODEL	80X86	80X102	80X110	80X115	84X86	84X102	84X110	84X115	94X102	94X110
WIDTH	6'8"	6'8"	6'8"	6'8"	7'0"	7'0"	7'0"	7'0"	7'10"	7'10"
LENGTH	7'2"	8'6"	9'2"	9'7"	7'2"	8'6"	9'2"	9'7"	8'6"	9'2"

MODEL	94X115	94X134	94X139	96X86	96X102	96X110	96X11	96X134	96X139	
WIDTH	7'10"	7'10"	7'10"	8'0"	8'0"	8'0"	8'0"	8'0"	8'0"	
LENGTH	9'7"	11'2"	11'7"	7'2"	8'6"	9'2"	9'7"	11'2"	11'7"	

Hydraulic System Specifications

HYDRAULIC SYSTEM	Electric over hydraulic
SYSTEM PRESSURE	2500 psi
FLOW	2.41 gpm @ 500 psi: 1.06 gpm @ 2500 psi
OIL RESERVOIR CAPACITY	10 quarts ATF fluid (Dextron III)
CYLINDER, LIFT	1.25" X 3.5" X 12"
LIFT CAPACITY (centered)	2,500 lbs.

Protective Coating Specifications

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

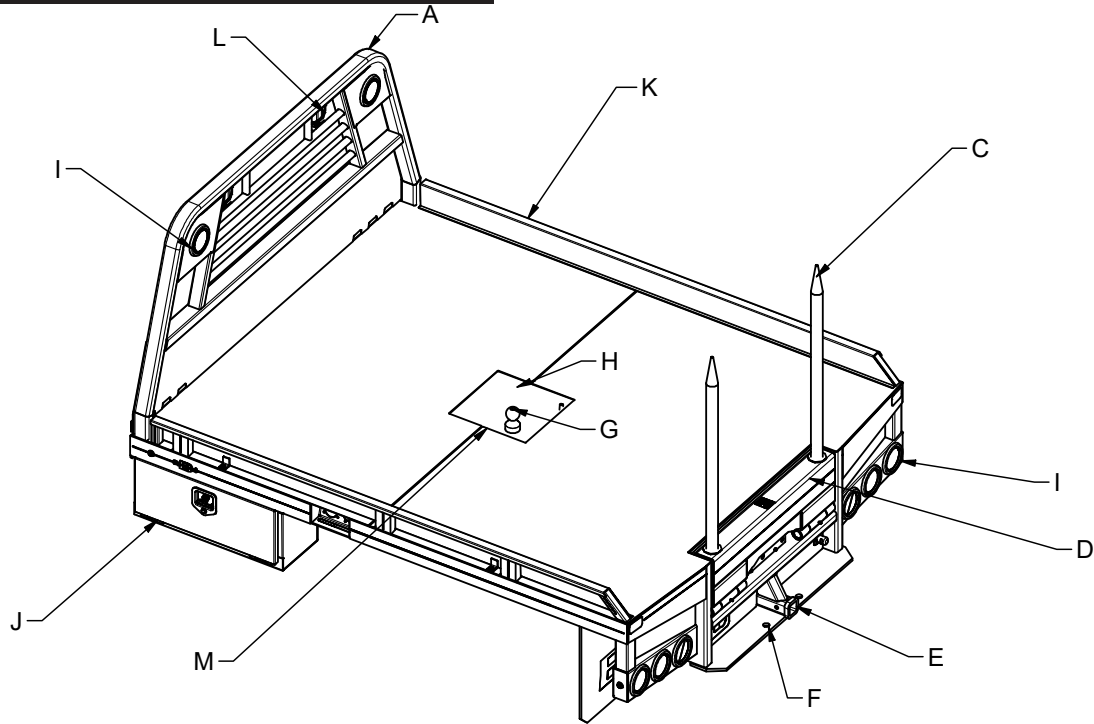
Bed Weights

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) – mounted across the front of the bed.

C. Spikes – used to stick and lift bales.

D. Pivot or Tailgate – houses the spikes and pivots to lift the bale.

E. Hitch Plate – allows for a 2" square receiver (Class IV) hitch and has holes for hitch pins.

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

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

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

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

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

K. Side rails or Dummy Arms – serve as side rail.

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



SAFETY WARNING!



Do not stand near tailgate when operating the bale pickup, even when unit is 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.

Spike 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 Spike 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

- Center spikes as close as possible to the center of the bale.
- Back the truck up to the bale with the spikes down, pushing the spikes into the bale.
- Lift the bale by pushing the UP button on the controller until the bale is lifted as high as possible (verticle spikes).
Do not haul bales with bale if the spikes are partially down.



CAUTION



Do not exceed the GVRW of the truck.

Unloading Instructions

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.

Unloading Instructions

- Lower the bale to the ground by pushing the DOWN button on the controller.
- Drive the truck forward.
- Once the spikes are clear of the bale, push the UP button to raise spikes to return to the home position.

Spikes

- Remove the spikes at least once a month. The spikes seat into the pivot very tightly. **Failure to remove the spikes monthly could cause them to seize up and become difficult to remove.**

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.

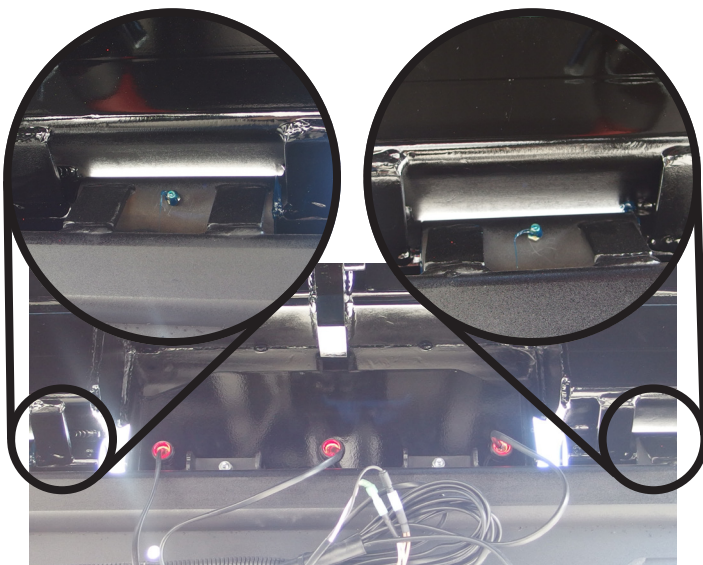
Lubrication

- Put rear pivot all the way in the down position.
- Locate the two pivot pins, and grease them both (2).



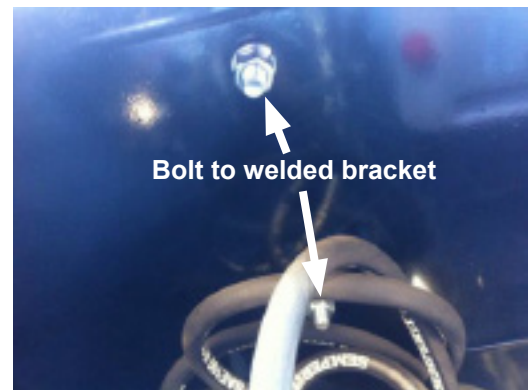
SAFETY WARNING!

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



Toolbox Mounting

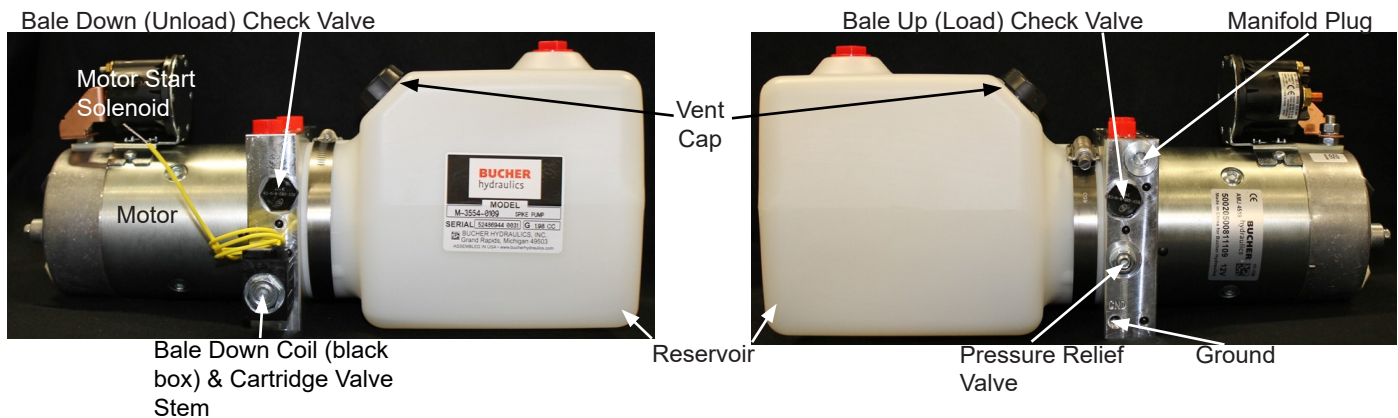
- Mount the box with the two bolt holes on the short end towards the front. Bolt the top of box to the welded bracket under the bed. All bolts are 3/8".



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



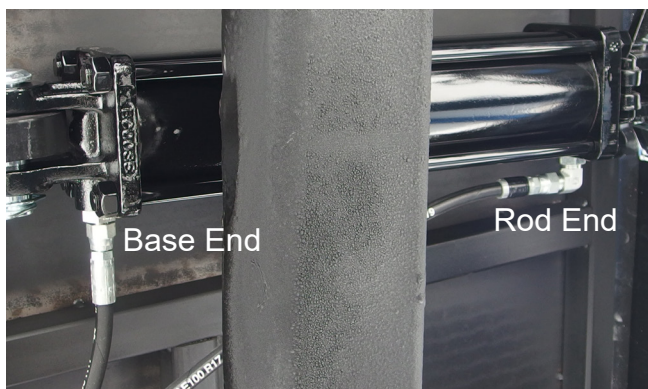
Hydraulics

Hydraulic System

- 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.

Hydraulic Hose Connections

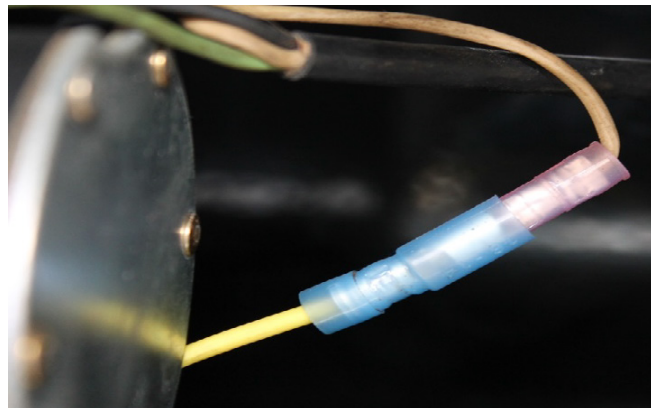
- Taped 1/4” hose (rod end) connects to C1.
- Un-taped 1/4” hose (base end) connects to C2.



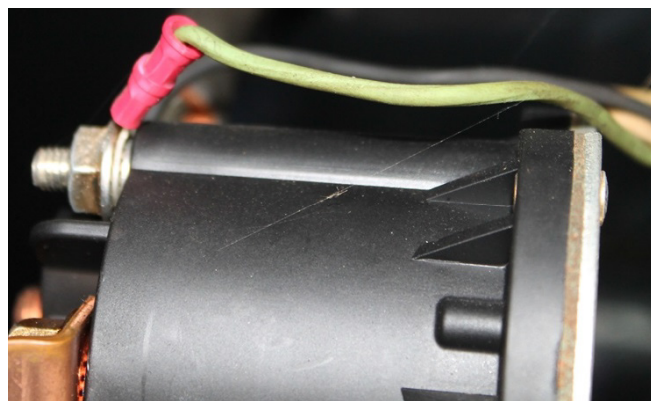
Corded/Wireless Remotes

Wiring Instructions/Corded Remote Spike Bed

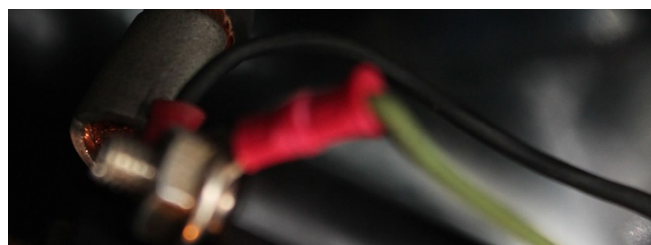
- See parts page 1.4 for more detail.
- White wire attaches to the yellow coil wire.
- Green wire attaches to the actuator on motor start solenoid.
- Black wire attaches to the input on motor start solenoid.



White wire attaches to yellow coil wire.



Green wire attaches to actuator on motor start solenoid.

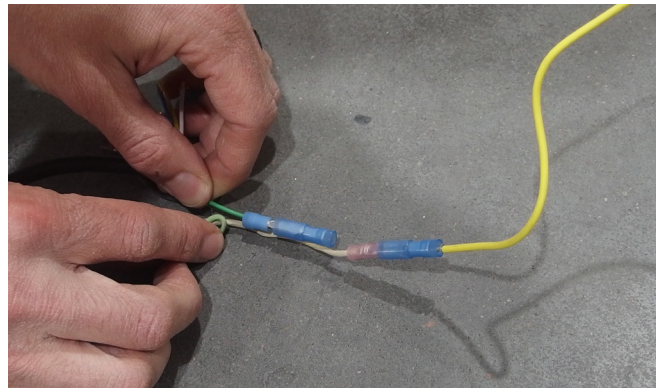


Black wire attaches to input on motor start solenoid.

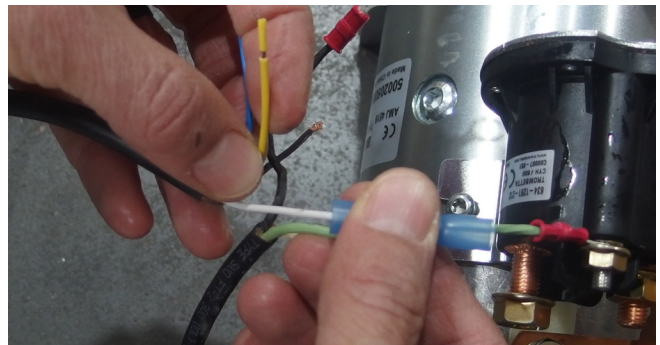
Wiring Instructions / Wireless Remote Spike Bed (optional)

- See *parts page 1.5* for more detail.
- Receiver mounts next to pump inside of tool box.
- Green wire (receiver) and the white wire (hand control) attach to the yellow coil wire.
- White wire (receiver) attaches to green wire (hand control) and connects to the actuator on motor start solenoid.
- Red wire (receiver) attaches to orange fuse wire.
- Orange fuse wire connects to black wire (hand control) that connects to the input on motor start solenoid.
- Black wire attaches to ground.
- Yellow, brown and blue wires are not used and can be bent over and taped to the cord.

Note: If you are tying this in with the corded remote (recommended), mate corded and wireless with a three way adapter as shown below.



Green and white wires attach to yellow coil wire.



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

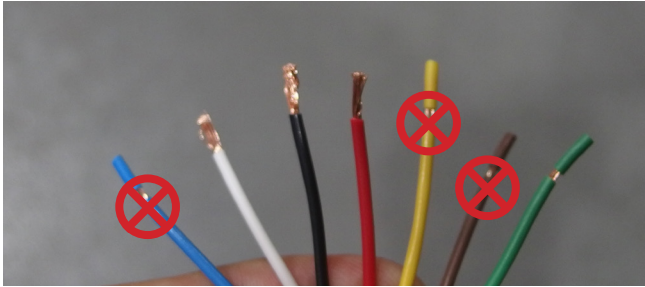


Red wire connects to the orange fuse wire.



Orange fuse wire connects to the black wire and is connected to the input on the motor start solenoid.

Black wire attached to ground on lower side of unit



All 7 wires - Blue, Yellow, and Brown are not used.

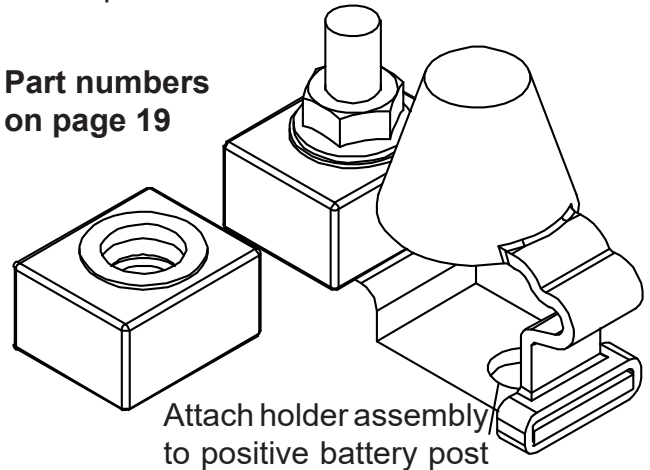
If the transmitter does not function when turned on for the first time, disconnect the power to the receiver that's mounted in the tool box. Next press the red button on the transmitter and release. Now PRESS and HOLD both the red and green buttons until the LED light starts to flash. This takes about 5 seconds. Now release both buttons. You should see a flash and pause pattern in the LED light now. Reconnect the power to the receiver and a 10 second window opens. Within the 10 seconds, PRESS and HOLD the green button for 5 seconds or until the light on the receiver is on solid (not flashing).

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 19



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



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.
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.
Spike pivot are not moving fast / pressurizing but not moving	Check for debris in the check valve. Make sure spring plunger is not broken.
Lift is not working	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.
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	Spike Amps Draw
50	82
250	96
500	112
750	128
1000	144
1250	160
1500	175
1750	190
2000	204
2250	219
2500	233
2750	246
3000	260



SPIKE BED

PARTS

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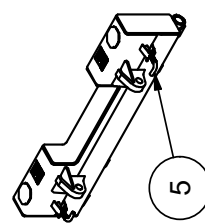
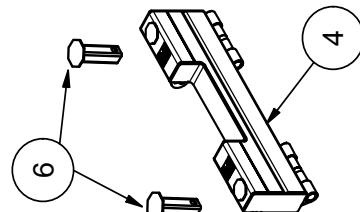
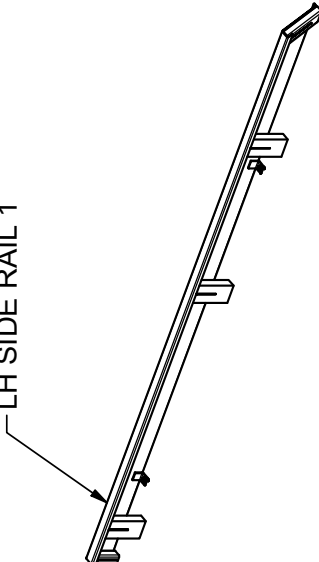
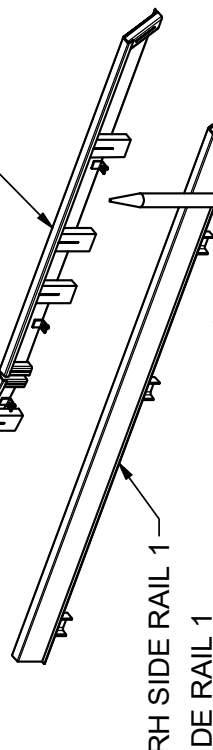
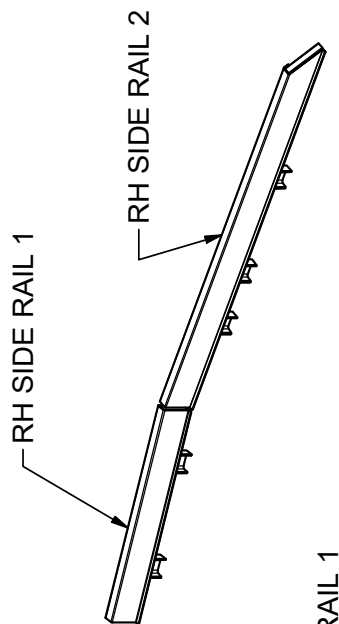
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SPIKES			
TYPE	SINGLE	PAIR	
Black Round (Bar)	280221	205177	
Red (Forged)	212030	205176	

SIDE RAILS			
BED SIZE	BED SHAPE	LH SIDE RAIL 1	RH SIDE RAIL 1
S80X86	Straight	205209	205208
S80X102	Straight	205199	205200
S80X110	Straight	205213	205214
S80X115	Straight	205255	205256
S84X86	Straight	205209	205208
S84X102	Straight	205199	205200
S84X110	Straight	205213	205214
S84X115	Straight	205255	205256
S90X110	Tapered	205218	205218
S90X115	Tapered	205218	205218
S90X139	Tapered	205218	205218
S94X102	Tapered	205218	205218
S94X110	Tapered	205218	205218
S94X115	Tapered	205218	205218
S94X134	Tapered	205218	205218
S94X139	Tapered	205218	205218
S96X86	Tapered	205299	205299
S96X102	Tapered	205218	205218
S96X110	Tapered	205218	205218
S96X115	Tapered	205218	205218
S96X134	Tapered	205218	205218
S96X139	Tapered	205218	205218

NOTE: This table only contains standard bed side rails. Wide beds with straight shape PN's not listed.

Spikes, Pivot, and Side Rails



PARTS LIST			
ITEM	QTY	PART #	DESCRIPTION
1	1	205204	PIVOT, WELDMENT
2	1	280220	HINGE, PIN
3	1	215418	HINGE, KIT (SET OF PINS AND TUBES)
4	1	205370	PIVOT, TROUGH WELDMENT
5	2	205174	KIT, SPRING PIN KIT
6	2	285247	PIVOT SPIKE PLUG

205263

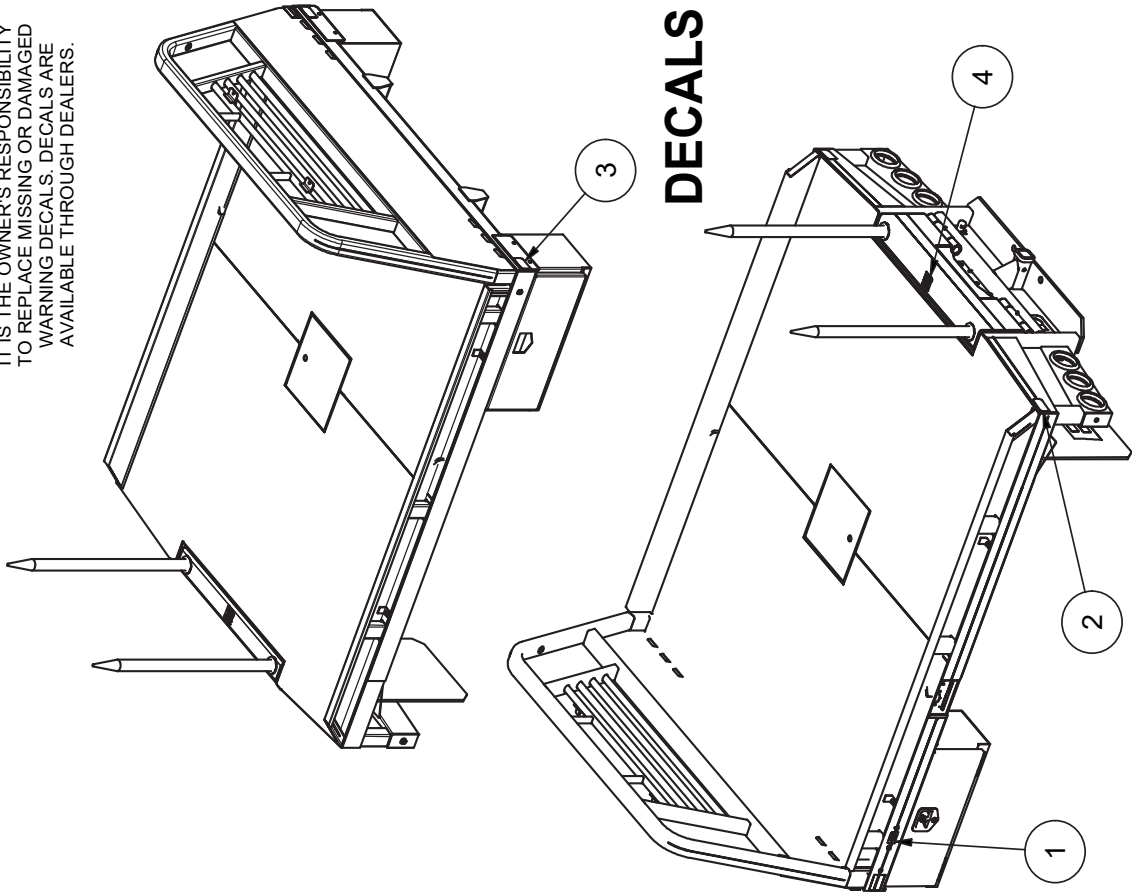
Weight: 85.32 lbmass

Parts List		
ITEM	QTY	PART # DESCRIPTION
1	2	110003 BOLT, 1/2-13 X 4.0
2	1	110159 BOLT, 5/8-11 X 1.75
3	4	110477 BOLT, 5/8-11 X 3.0
4	9	110597 NUT, 5/8-11 HEX
5	2	110610 NUT, 1/2-13
6	9	110655 WASHER, 5/8" LOCK
7	2	110666 WASHER, 1/2" LOCK
8	2	280540 Plate, Fork Support, .5 x 2 x 36.5
9	2	285176 Weldment, Spike Lift, Outer
10	2	285177 Weldment, Spike Lift, Inner

SPIKE FORK ASSEMBLY

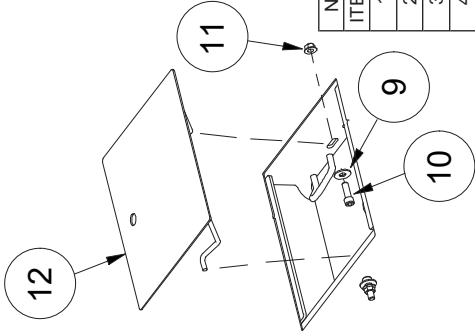
GOOSENECK WELL DOOR

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



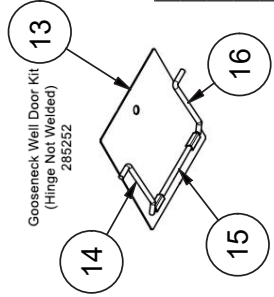
DECALS

Parts List			DESCRIPTION
ITEM	QTY	PART #	
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
5	1	202148	Decal, Pinstripe, White 150 FT Roll



New Gooseneck Well Door Kit 205483 (Late 2022 forward)			DESCRIPTION
ITEM	QTY	PART #	
1	2	110244	Bolt, 1/2-13 X 1.5 Shcs
2	2	110588	Nut, 1/2-13 Wiz Flange
3	2	110658	Washer, 1/2" Flat Standard
4	1	285850	Door, Assy, 5th Wheel

One piece rod with hardware to secure.

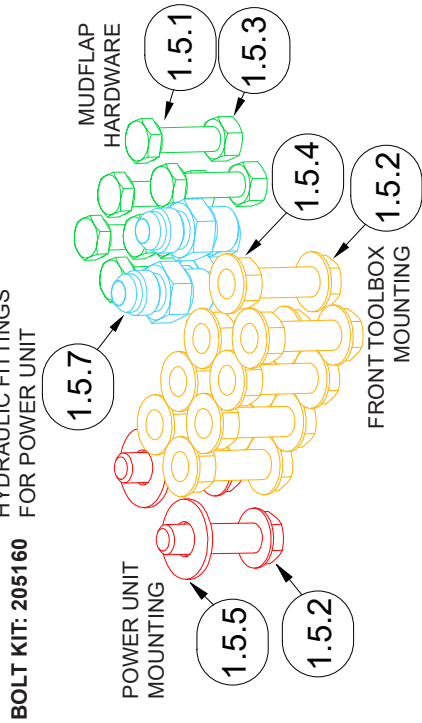
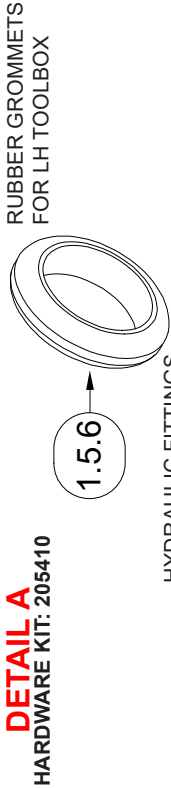
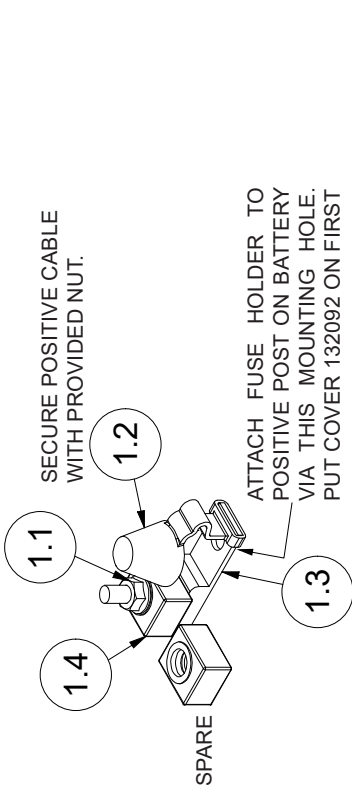
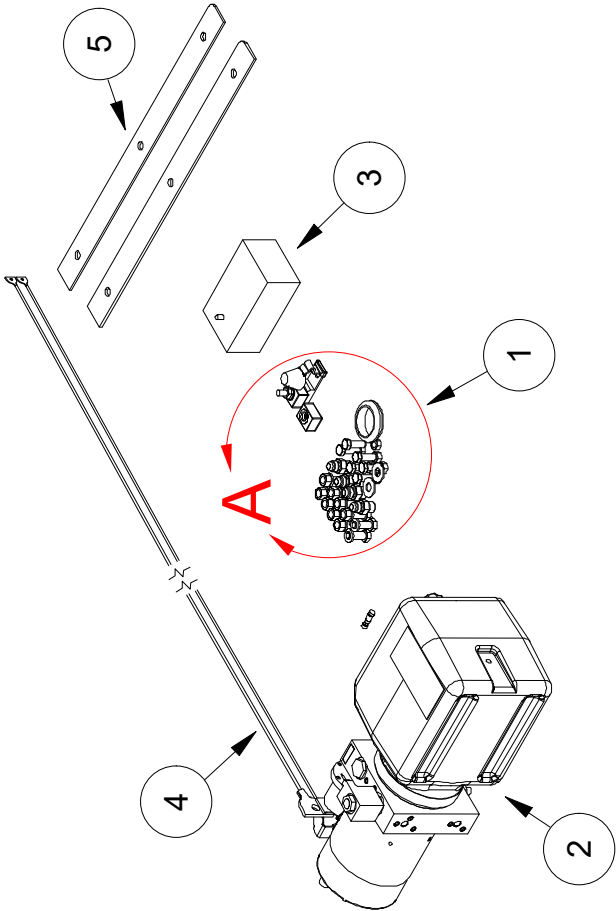


Old Gooseneck Well Door Kit 285252 (2022 & earlier)			DESCRIPTION
ITEM	QTY	PART #	
13	1	285233	Door, Wa Gooseneck Well
14	1	280151	Hinge, Straight Rod
15	1	280150	Hinge, Front Rod
16	1	280154	Hinge, Rear Rod

Three piece rod, hinge not welded.

SPIKE BED COMPLETING KIT

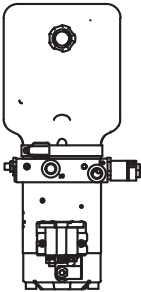
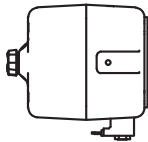
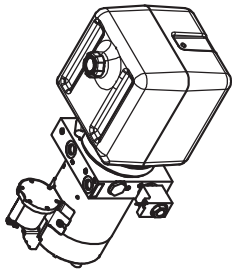
205251 REV: C



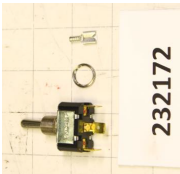
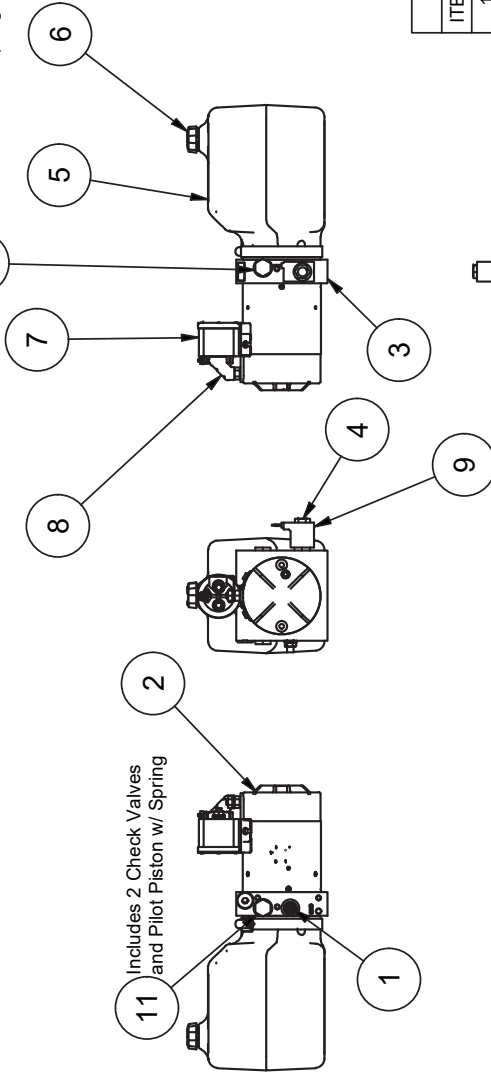
Parts List			KIT: 205251	
ITEM	QTY	PART #	DESCRIPTION	
1	1	205411	Kit, Hardware (Spike Bed)	
1.1	1	110141	Nut, M8 X 1.25 Wzflange	
1.2	1	132092	Fuse Cover, Buss CFcover-1R	
1.3	1	132093	Fuse Holder, Buss CFBAR1-M8XSP	
1.4	2	132094	Fuse 200 Amp, Buss MRBF-200	
1.5	1	205178	Kit, Bolt (Spike Bed)	
1.5.1	6	110423	Bolt, 5/16-18 X 1.0	
1.5.2	10	110440	Bolt, 3/8-16 X 1, Wz Flange	
1.5.3	6	110608	Nut, 5/16-18	
1.5.4	8	110645	Nut, 3/8-16 Wz Flange	
1.5.5	2	110676	Washer, 3/8" Flat Standard	
1.5.6	1	112123	Grommet, Rubber 1 1/2 X 1/2 Round	
1.5.7	2	120319	Adapter, 6mj-6mb	
2	1	222075	Assembly, Power Unit (High/Arm Bed)	
3	1	232151	Hand Control, Butler Arm Bed, Two Switch	
4	1	233007	Kit, Cables Power & Ground, Long	
5	2	281265	Bracket, Mudflap, Painted	

E/H ASSEMBLY

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



11 Includes 2 Check Valves
and Pilot Piston w/ Spring



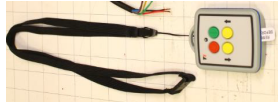
232172



233007



233009



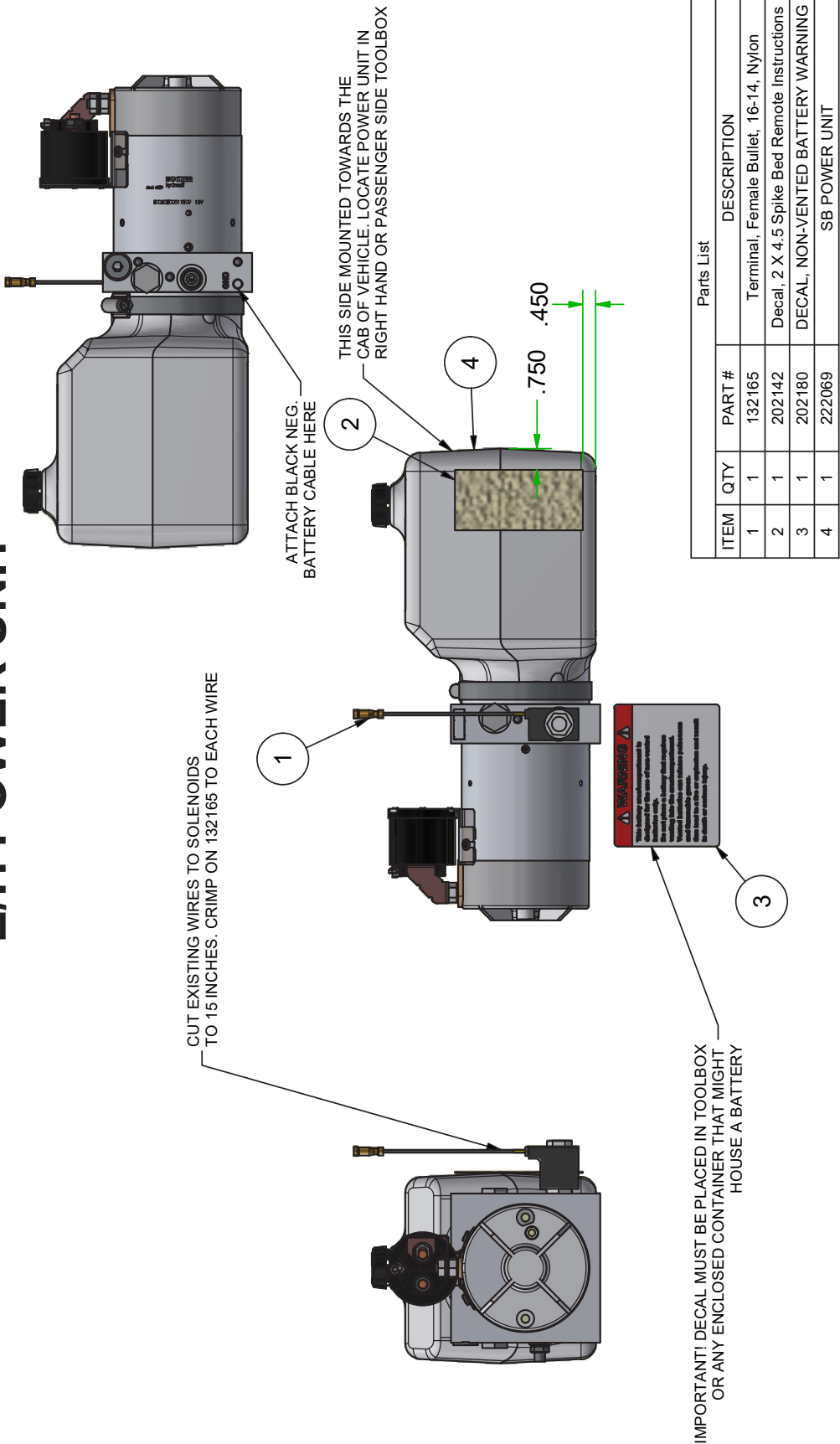
232165



232151

Parts List			DESCRIPTION
ITEM	QTY	PART #	
1	1	222075	E/H unit, spike bed, Butler, Bucher 3554-0109
2	1	222073	MOTOR, ELECTIC SB 12V
3	1	222092	PUMP, HYDRAULIC SB
4	1	222093	VALVE, CARTRIDGE SB
5	1	212034	TANK, HYDRAULIC BUCHER
6	1	212044	CAP, HYDRAULIC TANK BUCHER
7	1	232089	Solenoid, 3 Pole, Heavy Duty
8	1	232180	STRAP, SOLENOID CONNECTING
9	1	212033	VALVE, COIL BUTLER
10	1	222107	VALVE, SB RELIEF
11	1	222106	KIT, SB CHECK VALVE
12	1	232172	SWITCH, SB HAND CONTROL
13	1	233007	CABLE, POWER 195"
14	1	233009	WIRELESS, TRANSMITTER AND RECEIVER
15	1	232165	WIRELESS, TRANSMITTER
16	1	232151	WIRED, HAND CONTROL ONE SWITCH

E/H POWER UNIT



YELLOW, BROWN, BLUE
WIRES ON
TRANSMITTER TO BE
TAPED AND SECURED
SINCE NOT USED

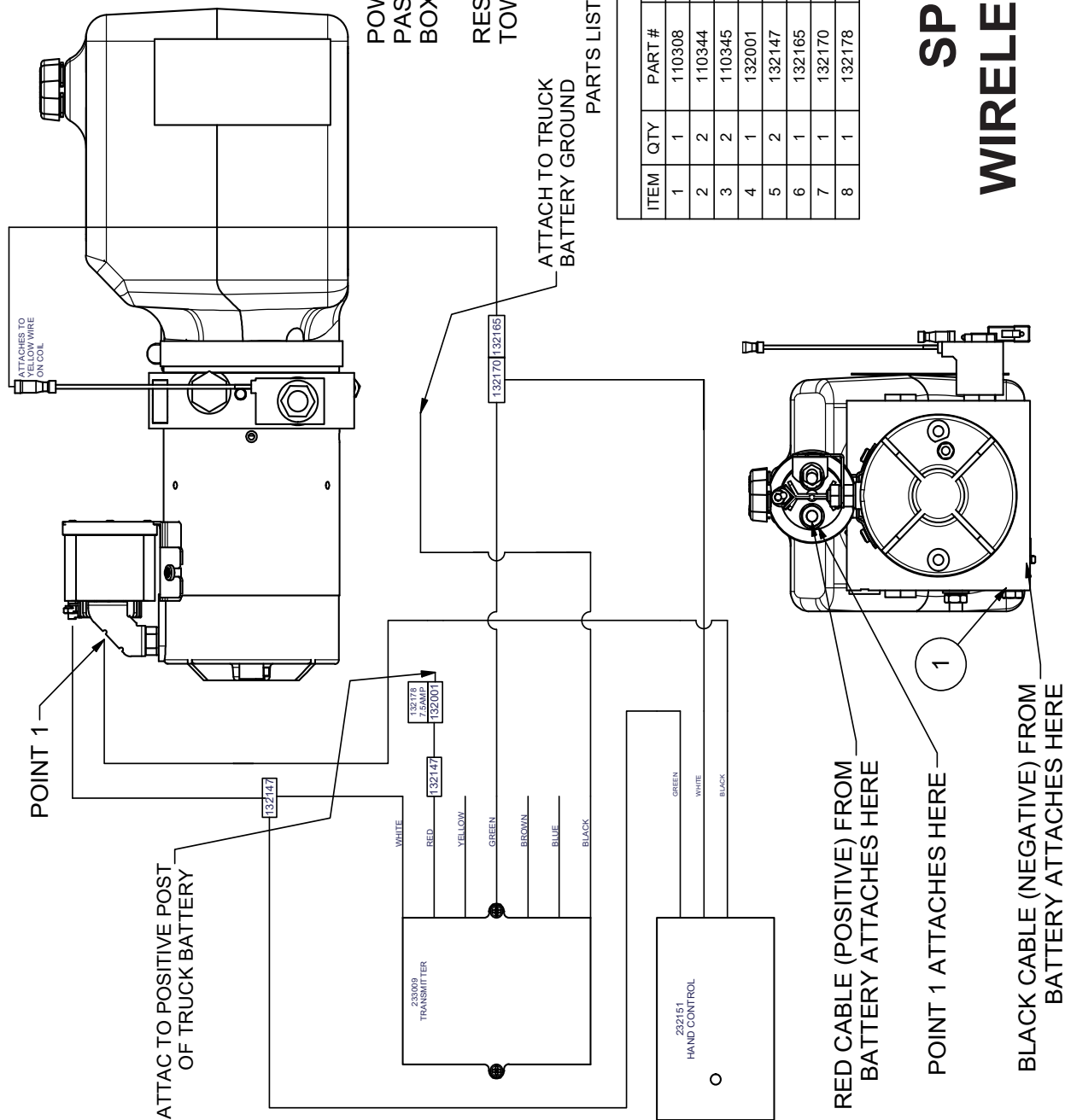
POWER UNIT IS MOUNTED IN
PASSENGER SIDE FRONT TOOL
BOX

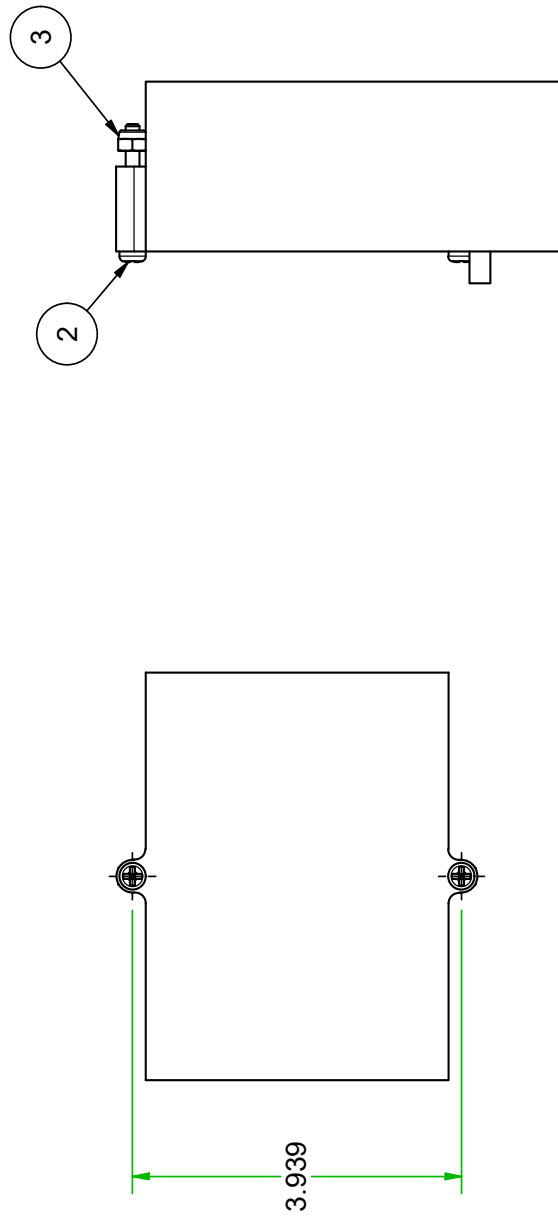
RESERVOIR IS MOUNTED
TOWARDS FRONT OF VEHICLE

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	1	132165	Terminal, Female Bullet, 16-14, Nylon
7	1	132170	Terminal, Male Bullet, 16-14, Nylon
8	1	132178	FUSE, MINI 7.5 AMP

SPIKE BED WIRELESS CONTROL





PARTS LIST FOR REFERENCE ONLY

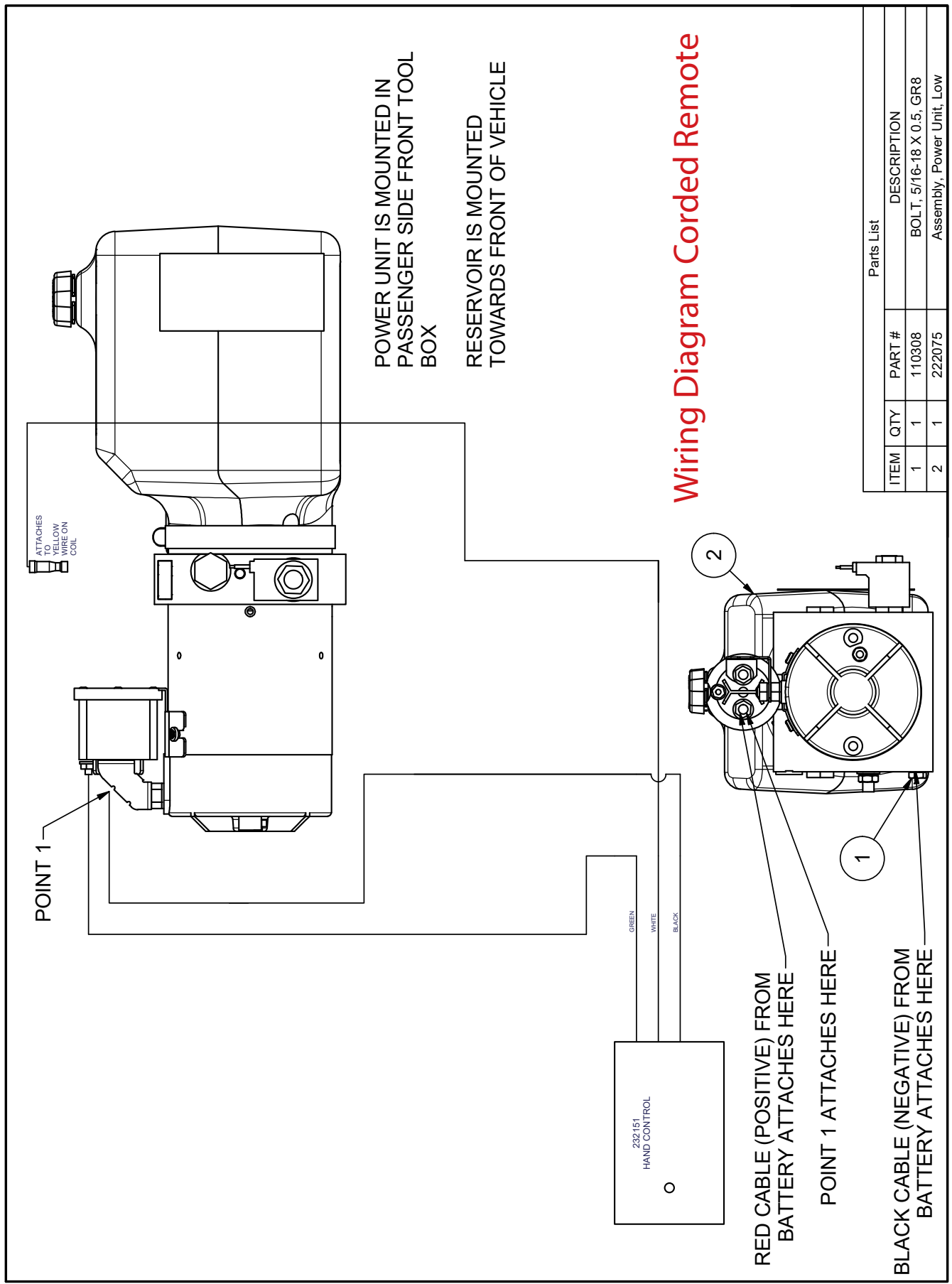
Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	1	110308	BOLT, 5/16-18 X 0.5, GR8
2	2	110344	SCREW, 8-32X1.5 PAN HEAD PHPS
3	2	110345	NUT, 8-32 LOCK NYLON
4	1	132001	FUSE HOLDER, ATC, 14 GA., MINI
5	2	132147	Terminal, Butt Connect 16-14, Heat Shink
6	1	132165	Terminal, Female Bullet, 16-14, Nylon
7	1	132170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

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

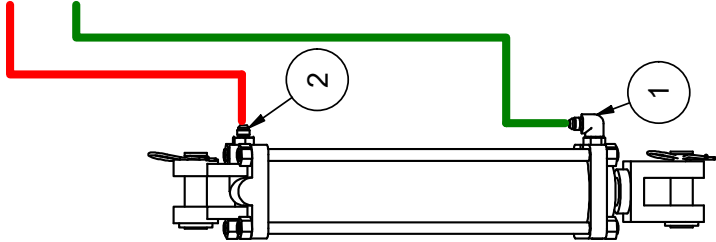
-USE NOTED HARWARE TO MOUNT



Hydraulic Hoses and Lift Cylinder
Non Trough Bed

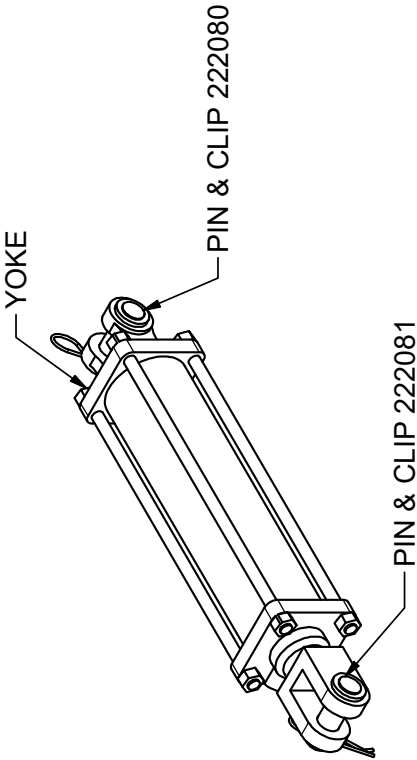
C2 1/4" HOSE
C1 1/4" HOSE BLACK TAPE

ALL HOSES CONNECT
TO FITTING 3 IN VALVE



HOSE TABLE		
BED	HOSE 1 (RED)	HOSE 2 (GREEN)
S80X86	220757	220758
S80X102	220757	220758
S80X110	220757	220758
S80X115	220757	220758
S84X86	220757	220758
S84X102	220757	220758
S84X110	220757	220758
S84X115	220757	220758
S90X110	220757	220758
S90X115	220757	220758
S90X139	220757	220758
S90X139	220764	220792
S94X102	220757	220758
S94X110	220757	220758
S94X115	220757	220758
S94X134	220764	220792
S94X139	220764	220792
S96X86	220757	220758
S96X102	220757	220758
S96X110	220757	220758
S96X115	220757	220758
S96X134	220764	220792
S96X139	220764	220792

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

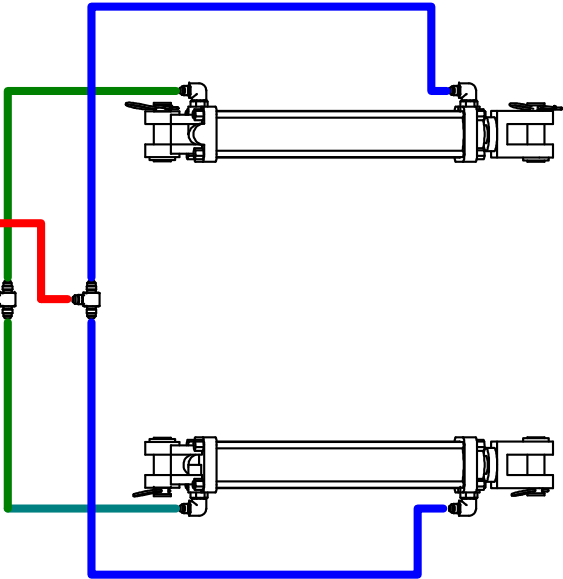


222071 Cylinder, Hydraulic, 3.50 X 1.25 X 12

222071 SERVICE PARTS LIST		
ITEM	QTY	DESCRIPTION
1	1	KIT, YOKE 3.5
2	1	KIT, PIN & CLIP DIA 1.0X2.75
3	1	KIT, PIN & CLIP DIA 1.0X3.125
4	1	KIT, SEAL 1.25X3.5

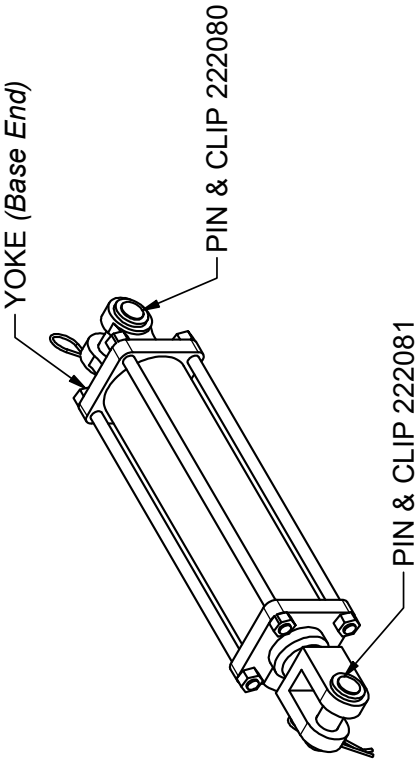
Hydraulic Hoses and Lift Cylinder
Trough Bed

C2 1/4" HOSE
C1 1/4" HOSE BLACK TAPE
ALL HOSES CONNECT
TO FITTING 3 IN VALVE



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

HOSE TABLE			
BED	HOSE 1 (RED)	HOSE 2 (GREEN)	HOSE 3 (BLUE)
S80X86	220757	220808	220809
S80X102	220757	220808	220809
S80X110	220757	220808	220809
S80X115	220757	220808	220809
S84X86	220757	220808	220809
S84X102	220757	220808	220809
S84X110	220757	220808	220809
S84X115	220757	220808	220809
S90X110	220757	220808	220809
S90X115	220757	220808	220809
S90X139	220764	220808	220809
S94X102	220757	220808	220809
S94X110	220757	220808	220809
S94X115	220757	220808	220809
S94X134	220764	220808	220809
S94X139	220764	220808	220809
S96X86	220757	220808	220809
S96X102	220757	220808	220809
S96X110	220757	220808	220809
S96X115	220757	220808	220809
S96X134	220764	220808	220809
S96X139	220764	220808	220809



222108 Cylinder, Hydraulic, 2.50 X 1.06 X 12

222108 SERVICE PARTS LIST		
ITEM	QTY	DESCRIPTION
1	1	KIT, YOKE 2.5
2	1	222080 KIT, PIN & CLIP DIA 1.0X2.75
3	1	222081 KIT, PIN & CLIP DIA 1.0X3.125
4	1	KIT, SEAL 2.5X1.06

WHEN USING COUPLERS CARE MUST BE TAKEN TO NOT MIX OILS WITH ATTACHMENTS. ISO 46 IS RECOMENDED. PUMP SHOULD ONLY BE RAN CONTINUOUSLY 2 MINUTES OUT OF EVERY 10 MINUTES.

SPIKE BEDS WITH OUTLETS REQUIRES ARM BED PUMP. THE LIFT CIRCUIT WILL CONNECT TO THE LIFT CYLINDER. THE SQUEEZE CIRCUIT WILL CONNECT TO THE OUTLETS.

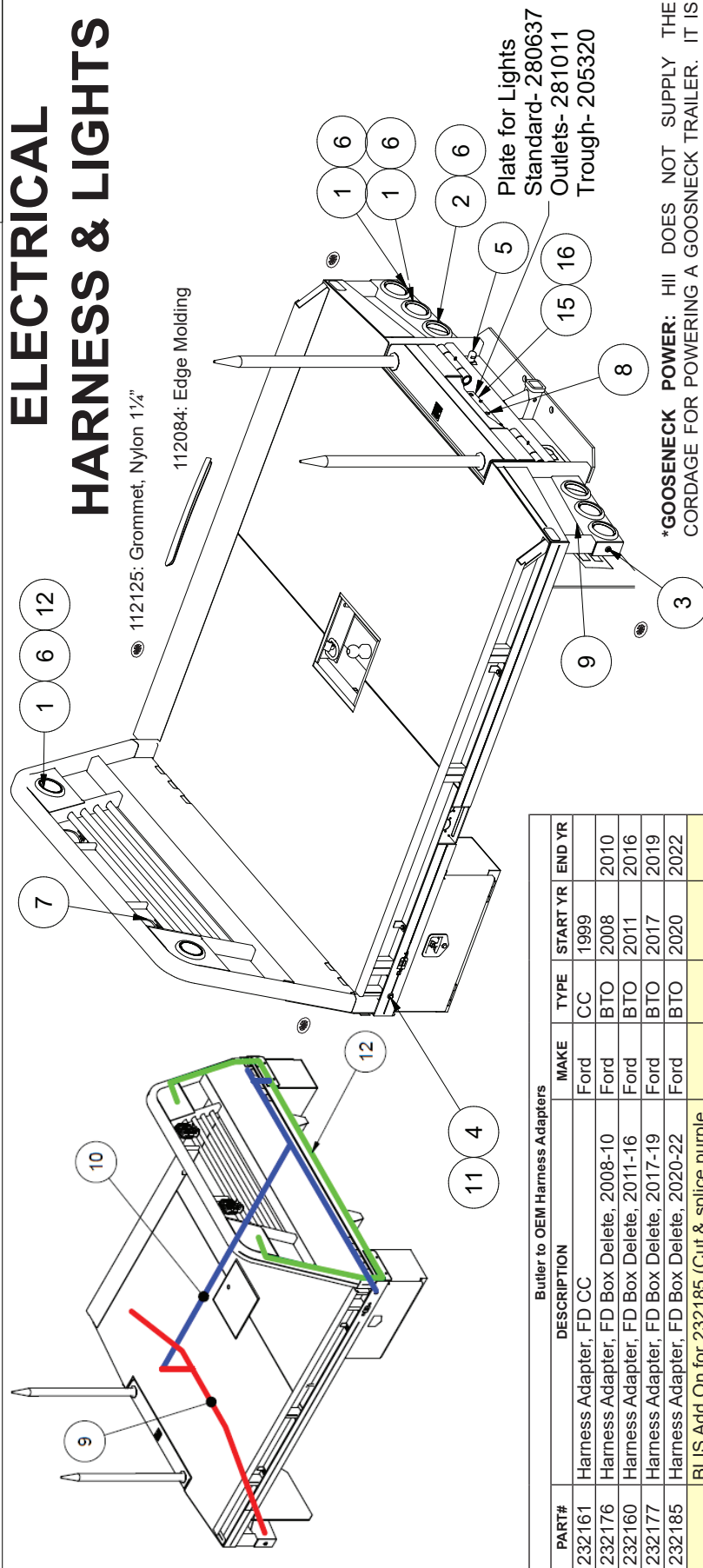


HOSE TABLE		
BED	HOSE 1 (RED)	HOSE 2 (GREEN)
S80X86	220810	220810
S80X102	220810	220810
S80X110	220810	220810
S80X115	220810	220810
S84X86	220810	220810
S84X102	220810	220810
S84X110	220810	220810
S84X115	220810	220810
S90X110	220810	220810
S90X115	220810	220810
S90X139	220811	220811
S94X102	220810	220810
S94X110	220810	220810
S94X115	220810	220810
S94X134	220811	220811
S94X139	220811	220811
S96X86	220810	220810
S96X102	220810	220810
S96X110	220810	220810
S96X115	220810	220810
S96X134	220811	220811
S96X139	220811	220811

FITTING TABLE		
ITEM	QTY	PART # DESCRIPTION
1	2	120218 ADAPTER 6MJ-6FJXB90
2	2	120743 ADAPTER 8MB-6MJ BULKHEAD
3	2	120581 COUPLER, FEMALE ORB
4	4	120319 ADAPTER 6MJ-6MB

DUST CAPS 420051 QTY 2

ELECTRICAL HARNESS & LIGHTS



***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.

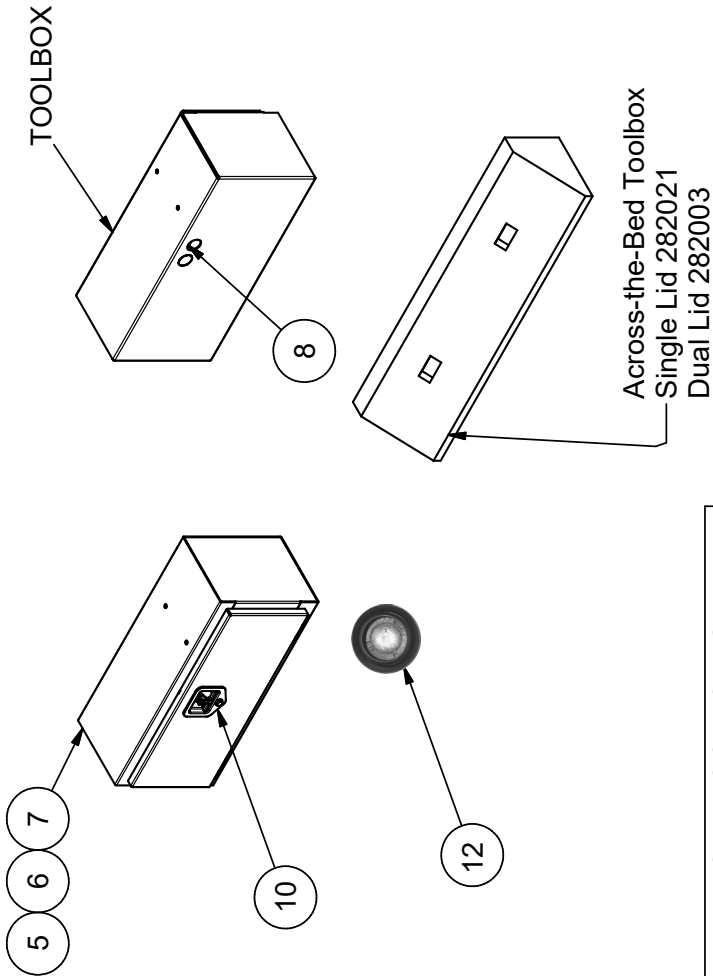
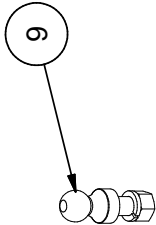
SERVICE PART LIST			
ITEM	QTY	PART #	DESCRIPTION
1	6	232144	LIGHT, LED 4" RED
2	2	232145	LIGHT, LED 4" CLEAR
3	2	232147	LIGHT, LED 3/4" RED
4	2	232148	LIGHT, LED 3/4" AMBER
5	1	232154	LIGHT, TAG CLEAR
6	8	232146	GROMMET, LIGHT
7	2	232167	LIGHT, WORK
8	1	232170	LIGHT, LED 3/4" RED 3PC HARNESS
9	1	232157	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
15	1	280637	PLATE, INDICATOR LIGHT STANDARD
16	1	281059	PLATE, INDICATOR LIGHT TROUGH BEDS

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, 2020-22	Ford	BTO	2020	2022	
232192	BLIS Add On for 232185 (Cut & splice purple & red wires from 20 pin into 232192.)	Ford	BLIS	2020	2022	
232234	Harness Adapter, FD Box Delete W/BLIS 23+	Ford	BTO	2023		
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 Diy 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	

TOOLBOXES, HITCH BALL & MUDFLAPS

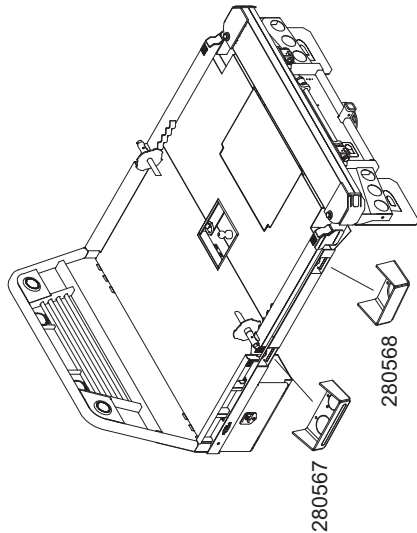
TOOLBOX SEAL 102030	
Size (inches)	Seal (feet)
18	5
20	5.5
24	6
30	7
36	8

*Alternate Ball
W/ Short Threads
281080

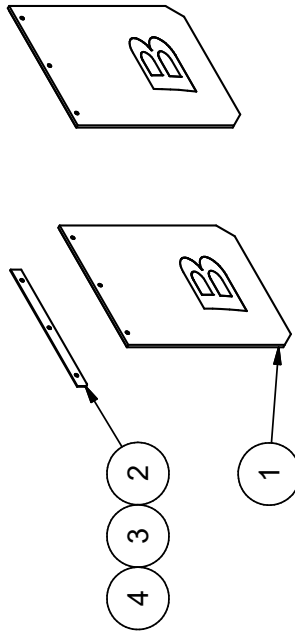


FRONT TOOLBOXES	
SIZE (IN)	RH PART #
18	282004
20	282005
30	282001
36	282008

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

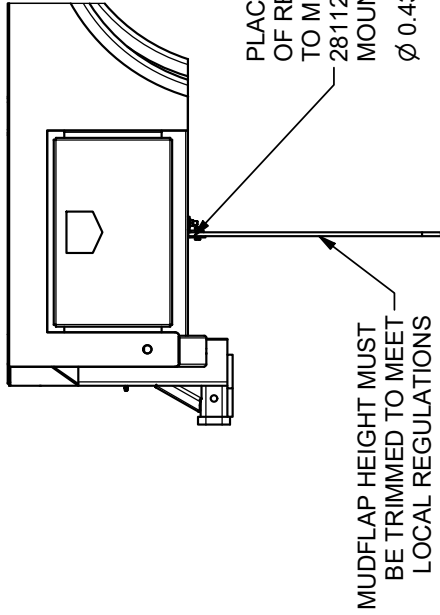
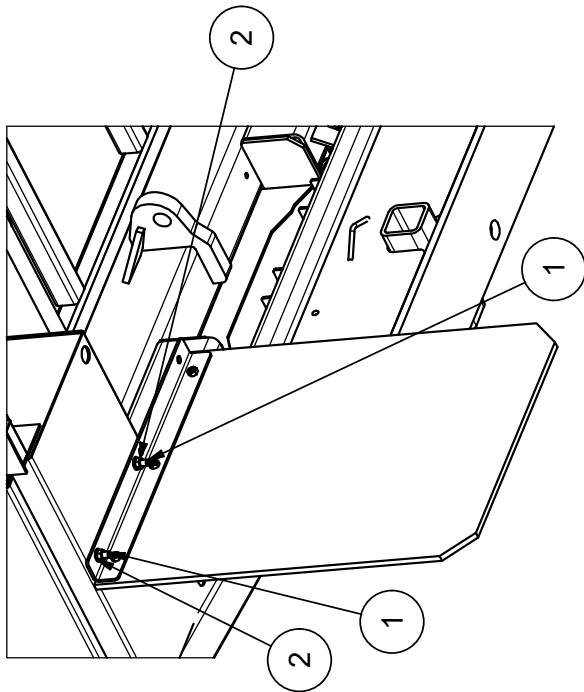


Part #	Description
280567	Bracket, Fuel and DEF Fill (Not Painted)
280568	Bracket, Fuel Fill, C&C Rear (Not Painted)



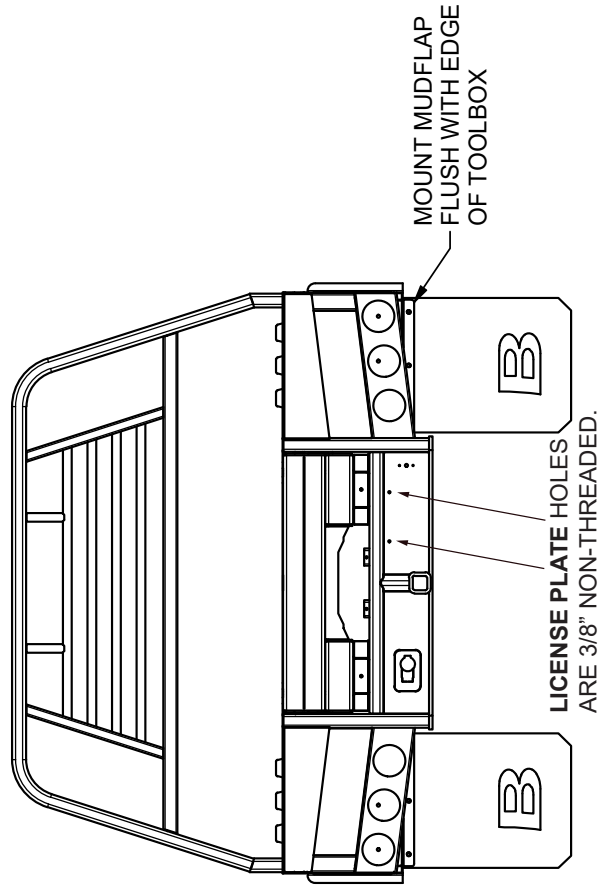
Parts List	
ITEM	QTY
1	2
2	2
3	6
4	6
5	8
6	8
7	8
8	2
9	1
10	2
11	1
12	2

PART #	DESCRIPTION
202166	Mudflap, Butler, 30"
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, Pinstripe, White 150 FT Roll
102053	Plug, Recessed Button 1.00



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 $\varnothing 0.438$ (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.

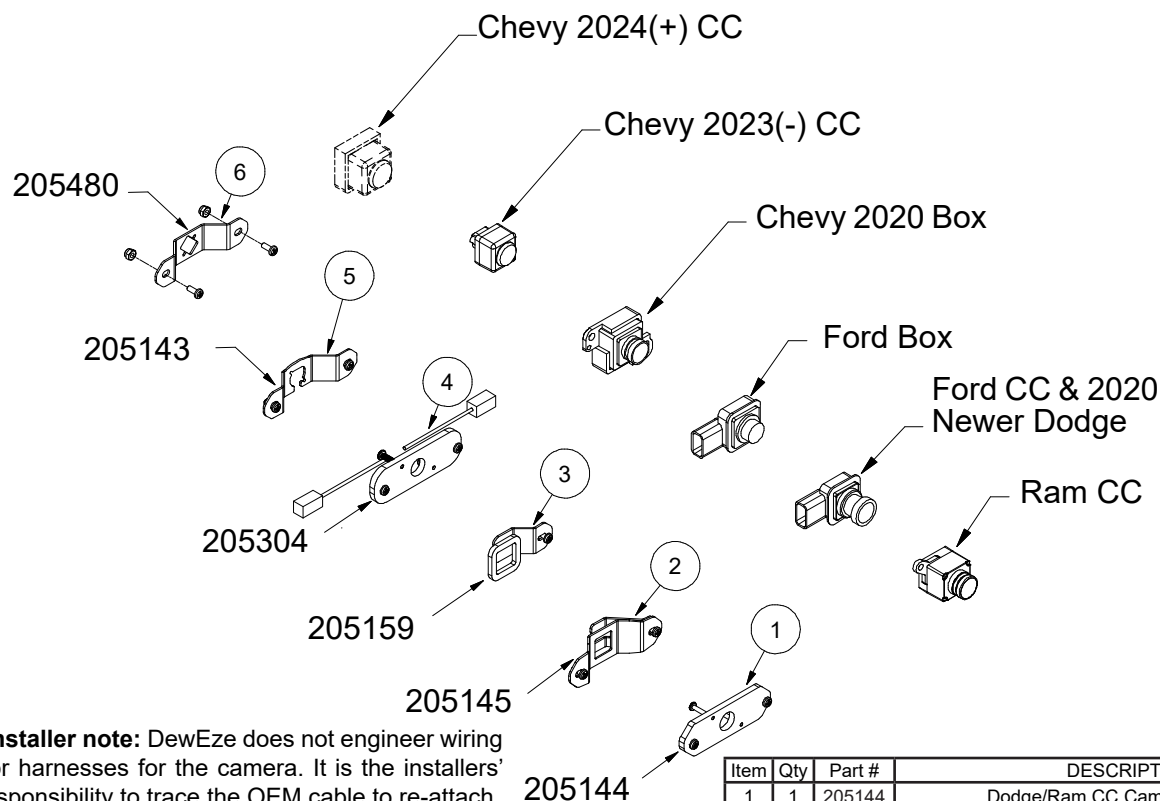
Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	4	110440	BOLT, 3/8-16 X 1, W/IZ FLANGE
2	4	110645	NUT, 3/8-16 W/IZ FLANGE
3	2	281125	BRACKET, MUD FLAP

MUD FLAP MOUNTING

BED MOUNTING KITS

PART#	DESCRIPTION	MAKE	TYPE	START	END
205162	Chevy General	GM	BD	1990	2010
205356	Chevy BD	GM	BD	2011	Current
205365	Chevy C&C	GM	C&C	1990	2010
205366	Chevy C&C	GM	C&C	2011	Current
205484	Chevy C&C, 45-6500 60" CA	GM	C&C	2019	Current
205485	Chevy C&C, 84" CA	GM	C&C	2011	Current
205490	Chevy C&C, 45-6500 84" CA	GM	C&C	2019	Current
205491	Chevy BD	GM	BD	2020	Current
205493	Chevy Short BD	GM	BD	2000	2010
205494	Chevy C&C, 84" CA	GM	C&C	2000	2010
205165	Dodge BD	Dodge	BD	1994	2002
205362	Dodge BD	Dodge	BD	2003	2013
205359	Dodge BD, 3500	Dodge	BD	2014	Current
205360	Dodge BD, 2500	Dodge	BD	2014	Current
205361	Dodge Short BD	Dodge	BD	2014	Current
205175	Dodge C&C	Dodge	C&C	2007	Current
205492	Dodge C&C, 84" CA				
205363	Ford Long Bed, BD	Ford	BD	1998	2016
205364	Ford Short Bed, BD	Ford	BD	1998	2016
205355	Ford BD	Ford	BD	2017	Current
205357	Ford C&C	Ford	C&C	1999	2016
205358	Ford C&C	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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