

**AmeriDeck<sup>®</sup>**

**INSTALLATION  
MANUAL**

ENG-0001-FPI-AMD  
PN:3300017  
Revision 10/18/2019





# INSTALLATION MANUAL

ENG-0001-FPI-AMD

PN:3300017

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Refer to this manual during the upfit & installation of the AmeriDeck® lift system, and accessory component(s)

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# AmeriDeck™ General Warnings

## Warning Labels & Indicators

### DANGER

#### DANGER

Indicates a hazardous situation that, if not avoided, could result in serious injury or even death

### CAUTION

#### CAUTION

Indicates to hazardous situations that, if not avoided, could result in minor to moderate injury

### WARNING

#### WARNING

Indicates to hazardous situations that, if not avoided, could result in minor to severe injury

### NOTICE

#### NOTICE

Indicates information considered important, but not hazard-related



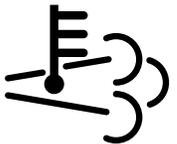
#### DANGER

Be sure to wear appropriate eye or face protection when exposed to eye or face hazards from flying particles, molten metal, liquid chemicals, acids or caustic liquids, chemical gases or vapors, or potentially injurious light radiation.



#### DANGER

Welding, oxygen-fuel cutting, or grinding sparks can cause fuel to ignite which in turn can lead to injury or death. Always take adequate steps to avoid ignition of fuel from fuel tanks when welding, oxygen-fuel cutting or grinding during equipment.



#### DANGER

Heat from the trucks' exhaust system can cause hydraulic component failure and may lead to a fire which could cause injury or death. Always install equipment in locations where heat from the exhaust will not damage any hydraulic component.



#### DANGER

Damage to the brake lines during equipment installation, or installing bolts or equipment in such a way that a line will rub and become damaged can lead to failure of the brakes, which can lead to severe injury or death. Always take adequate steps to prevent brake line damage during installation and isolate brake lines from installed equipment.



#### WARNING

Failure to install or operate the AmeriDeck™ Lift System, as described in Installation or Operation Manual may result in a faulty component or malfunction, and may void vehicle or AmeriDeck™ warranty, and or may cause serious injury or death.



#### WARNING

During installation or assembly components or material handling that may be heavy ensure to use proper equipment or additional assistance for lifting. Failure to properly lift or carry loads that are either too large or too heavy may result in serious injury or death.

**NOTICE**

READ AND UNDERSTAND THE INSTALLATION MANUAL THOROUGHLY BEFORE INSTALLATION OF THE AmeriDeck™ HOIST SYSTEM.

**⚠ NOTICE**

Installation of the AmeriDeck™ lift system is not complete until the installer has verified the lift system is fully tested. Once the system is working as intended, complete the installation completion checklist, located in the back of this manual. Review AmeriDeck™ operator manual and vehicle manufacturer owner manual before using the system, as this may result in injury or loss of vehicle and/or system if not done correctly.

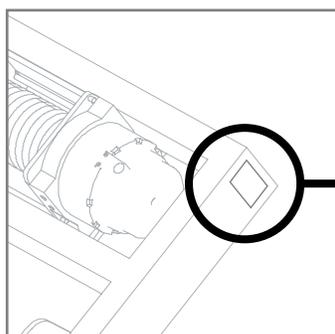
**⚠ NOTICE**

Installation of an AmeriDeck™ lift system to the bed/box of a truck will change the center of gravity. Please refer to proper vehicle handling techniques when navigating turns and traveling on uneven ground.

# AmeriDeck System Overview

## Understanding Your AmeriDeck™

Before Installing the AmeriDeck™ lift system, please review and understand the hoist system. Identify the serial/model identification tag, located on the driver side of the AmeriDeck™ lift system base, near the front.



**AmeriDeck**

SERIAL NUMBER \_\_\_\_\_

MODEL \_\_\_\_\_

MFG. DATE \_\_\_\_\_

3550 PERRY HWY  
HADLEY, PA 16130  
(888) 311-0867

### SERIAL NUMBER

This unique identification number or serial number is specific to each model number, manufacturing date and is assigned to sales purchasing order. The Serial Number is used for any warranty claims or technical support.

SERIAL NUMBER

S 8 8 8 8

### MODEL

This model is a generic name and not unique to one model. This model name is 4-part identification code as show below.

### MFG. DATE

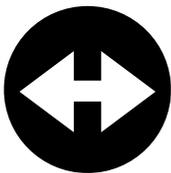
This is the final manufacture date of the AmeriDeck™ hoist.

### MODEL EXAMPLE

LIFT SYSTEM Indicators –	LS-8.0
	LS-6.5

Indicators below provide brief descriptions of how to understand your hoist model name.

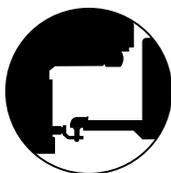
1



### LIFT ARM

The AmeriDeck™ lift system is intended to fit inside the bed/box of a class 2-3 or GVW of 6,001-11,000lbs vehicles. For additional information see your vehicle manufacturer's up-fit documents.

2<sup>A</sup>



### BASE LENGTH

The AmeriDeck™ model length is unitized by foot increments. This is shown in the model name by a "6.5" for the 6.5' lift system or "8.0" for the 8' lift system.

## **⚠ NOTICE**

The AmeriDeck™ lift system is an hydraulic loading system that has an electric powered hydraulic pump cylinder. The AmeriDeck™ lift system comes pre-installed with the hydraulic hoses from the hydraulic pump to the hydraulic pump cylinder. The installer is responsible for testing that the batteries and alternator are functioning properly and meet the system requirements as stated below. Failure to meet the requirements may result in a weak or non-functioning system.

## **⚠ NOTICE**

AmeriDeck™ lift systems new installations require priming before operation to avoid the possibility of pump damage or failure. The AmeriDeck™ system ships fully filled with fluid already in it, but to ensure that there is no air in the hydraulic lines prime the hydraulic system. The reservoir maximum capacity of hydraulic oil is 1.19 gallons.

## **REQUIRED ITEMS NOT SUPPLIED IN INSTALLATION KIT**

- Item 1—** One standard duty alternator with a minimum rating of minimum 50AMP
- Item 2—** One standard duty battery with a minimum Cold Cranking Amps (CCA) rating of 500 AMPs
- Item 3—** Extra hydraulic oil equivalent to Grade 32 (such as ATF-Dextron II or Mobile DTE 13)

## **REQUIRED TOOLS FOR ASSEMBLY/INSTALLATION**

- Item 1—** Drill
- Item 2—** Hammer
- Item 3—** 9/16" Drill Bit
- Item 4—** Phillips Driver Bit
- Item 5—** 5/16" Hex Driver
- Item 6—** 1/2" Hex Driver
- Item 7—** 1 1/8" Socket and combination wrench
- Item 8—** (1) 3/4" Socket and combination wrenches
- Item 9—** (2) 1/2" Combination wrenches
- Item 10—** Sharp Knife

# AmeriDeck Pre-Installation

## Installation Kit Components

### COMMON INSTALLATION KIT

#### LIFT SYSTEM COMPONENTS

Qty.	Description
1	Lift Arm Assembly
1	Base Assembly

#### CONTROLLER/PENDANT

1	Control pendant with 4' Cord with 4-pole plug
---	---

#### SMALL PARTS KIT

9	1/4"Ø x 1" Self Tapping Screws
4	7 1/2" Plastic Zip Ties
5	Rubber Loop Straps
2	1/2"Ø 13 UNC x 1" HHCS Grade 5 Bolt
2	3/8" Linch Pins
4	5/16"Ø x 1" Self Tapping Screws

#### MANUAL KIT

1	Installation Manual
1	Operator Manual

#### REAR PLATE\*

1	6.5' System Rear Plate
1	8' System Rear Plate

\*Reference bed/box length for specific part provided in installation kit

### ELECTRIC INSTALLATION KIT

#### ELECTRICAL WIRES

Qty.	Description
1	Battery / Circuit Wire - #2 AWG (18" length)
1	Power Wire - #2 AWG (216" length)
1	Ground Wire - #2 AWG (216" length)

#### ELECTRICAL HARDWARE

1	150 AMP Circuit Breaker
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## MOUNTING KITS

Specific mounting kits are required for different vehicle manufacturers bed/box constructions. Before installation of the AmeriDeck™ system please determine the length of the bed/box and the material your bed/box is manufactured of.

### 6.5' LIFT SYSTEM STEEL BED/BOX MOUNTING KIT

Qty.	Description
2	16" Mounting Bracket (with welded-in nuts)
1	1/2"Ø 13 UNC x 2 1/2" HHCS Grade 8 Grade 5 Bolt
1	1/2"Ø 13 UNC x 6" HHCS Grade 8 Grade 5 Bolt
2	1/2"Ø Flat Washer
2	1/2"Ø 13 Grade 8 Grade 5 Hex Fin Nut

### 8' LIFT SYSTEM STEEL BED/BOX MOUNTING KIT

2	16" Mounting Bracket (with welded-in nuts)
2	1/2"Ø 13 UNC x 2 1/2" HHCS Grade 8 Grade 5 Bolt
2	1/2"Ø Flat Washer
2	1/2"Ø 13 Grade 8 Grade 5 Hex Fin Nut
2	Mounting Bracket (with welded-in nuts)

### 6.5' LIFT SYSTEM ALUMINUM BED/BOX MOUNTING KIT

1	6" Mounting Bracket (with welded-in nuts)
1	20" Mounting Bracket (with welded-in nuts)
1	1/2"Ø 13 UNC x 7" HHCS Grade 8 Grade 5 Bolt
1	1/2"Ø 13 UNC x 2 1/2" HHCS Grade 8 Grade 5 Bolt
2	1/2"Ø Flat Washer
2	1/2"Ø Nylon Locknut
1	Polyethylene Foam (25' roll)
4	5/16"Ø NC Self Tapping Screws

### 8' LIFT SYSTEM ALUMINUM BED/BOX MOUNTING KIT

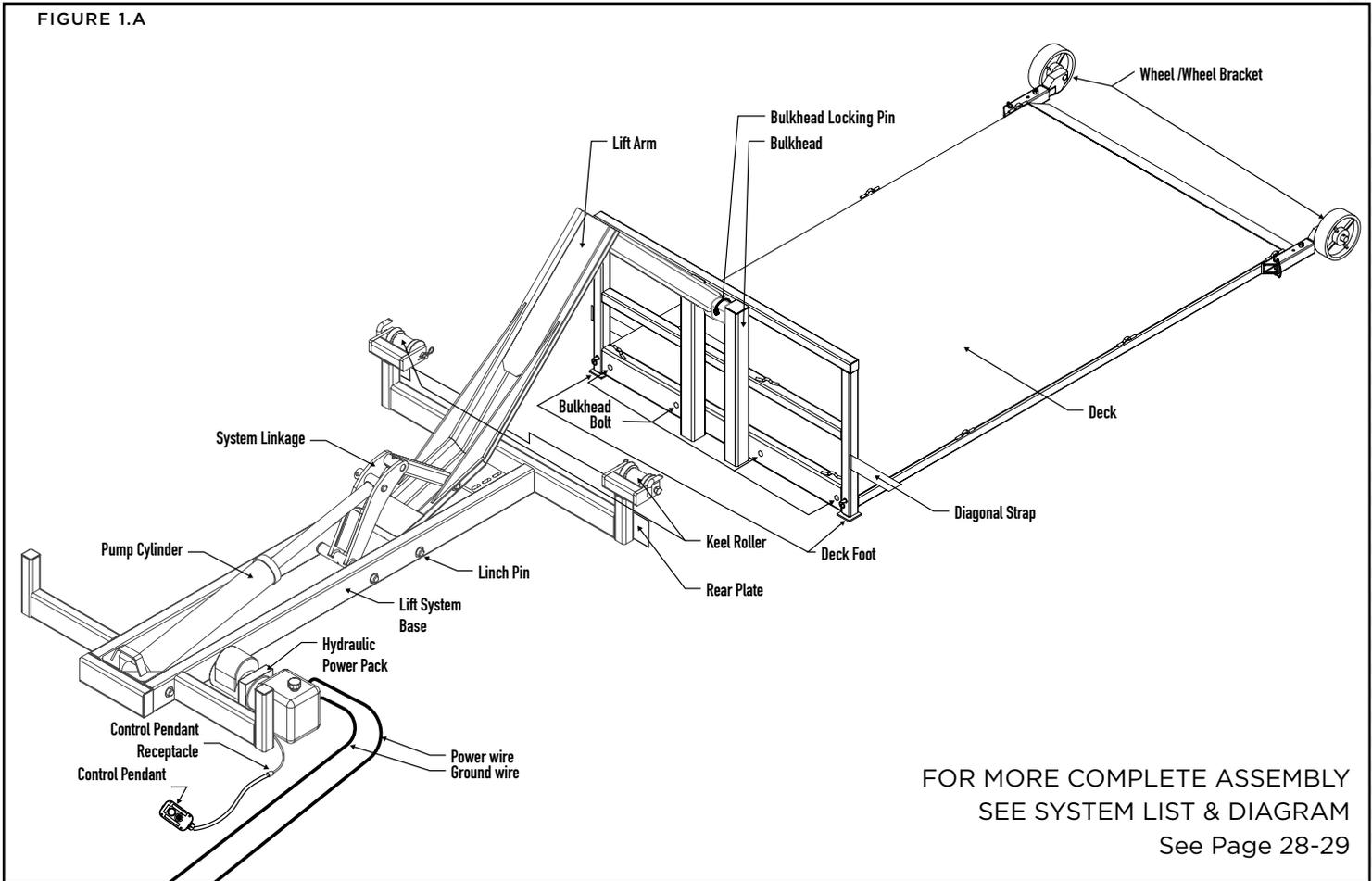
1	6" Mounting Bracket (with welded-in nuts)
1	20" Mounting Bracket (with welded-in nuts)
1	1/2"Ø 13 UNC x 7" HHCS Grade 8 Grade 5 Bolt
1	1/2"Ø 13 UNC x 2 1/2" HHCS Grade 8 Grade 5 Bolt
2	1/2"Ø Flat Washer
2	1/2"Ø Nylon Locknut
1	Polyethylene Foam (25' roll)
4	5/16"Ø NC Self Tapping Screws

## OPTIONAL ACCESSORIES

The Optional AmeriDeck™ components are not required but may require additional modification.

### WIRELESS REMOTE CONTROL

Part Number	Qty.	Description
3180120	1	Wireless Remote Control Pendant & Kit (w/10 AMP in-line fuse & antenna)

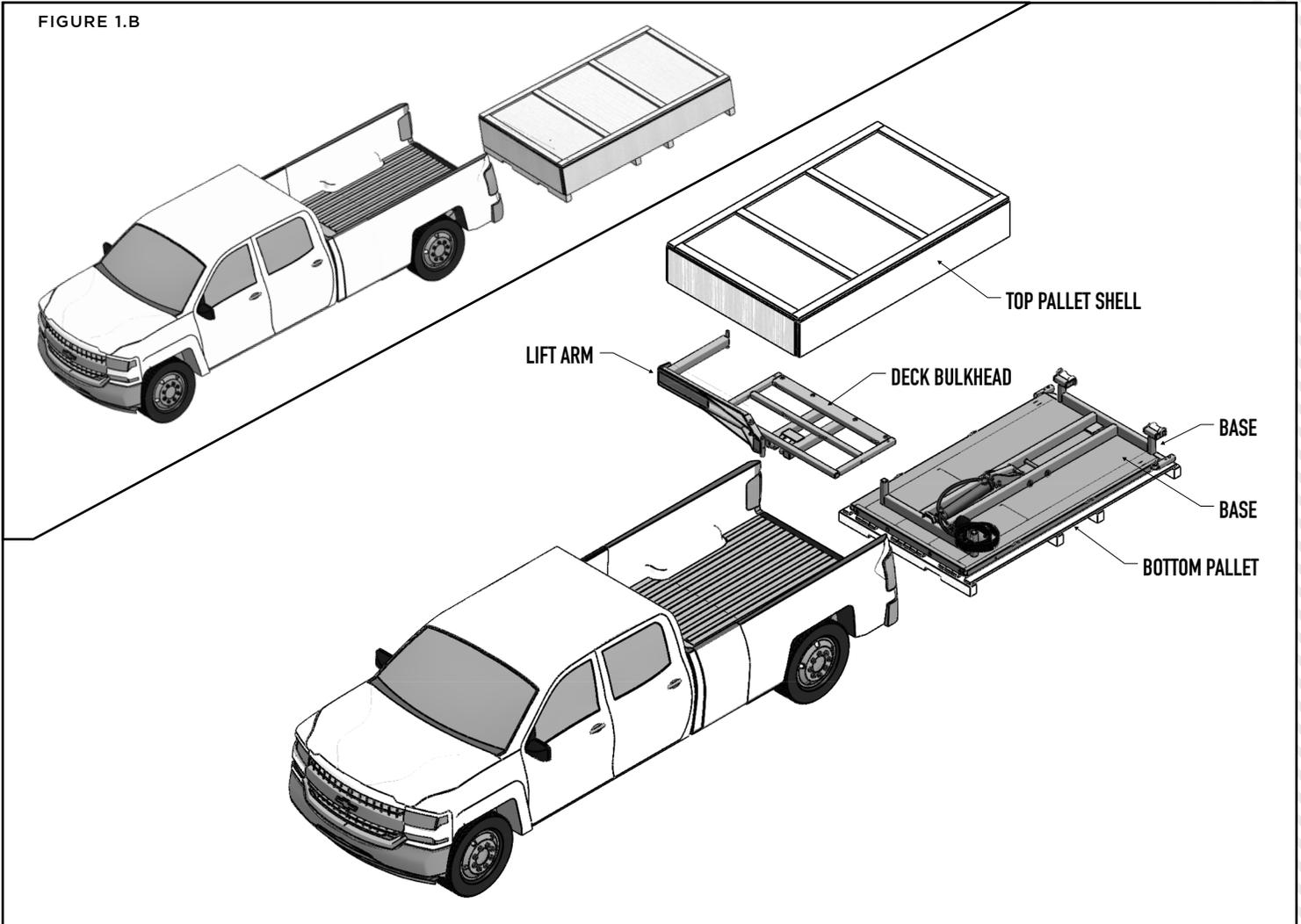


# Truck Preparation

## DISCONNECT THE BATTERY

- Step 1—** Place the vehicle on level ground with room to work around it.
- Step 2—** Set vehicle transmission, in park (P) position, and set the Parking Brake.
- Step 3—** Turn off vehicle by either turning the key or pressing the vehicle start/stop button.
- Step 4—** Disconnect the (-) cable by safely loosening the connector nut on the battery terminal. Repeat this process for the additional battery.
- Step 5—** Disconnect the (+) cable by safely loosening the connector nut on the battery terminal. Repeat this process for the additional battery.
- Step 6—** Do not allow battery terminals to come in contact with either the truck components or vehicle chassis frame as this could cause a short circuit, damage to vehicle computer and result in fire or serious damage, injury or death. ■

FIGURE 1.B



## **⚠ NOTICE**

Flat Pack AmeriDeck™ (FPA) Units, refers to how the lift system & deck components are disassembled and shipped loose inside of the low-profile crate, which requires some assembly before installation.

## **DISASSEMBLE THE CRATE**

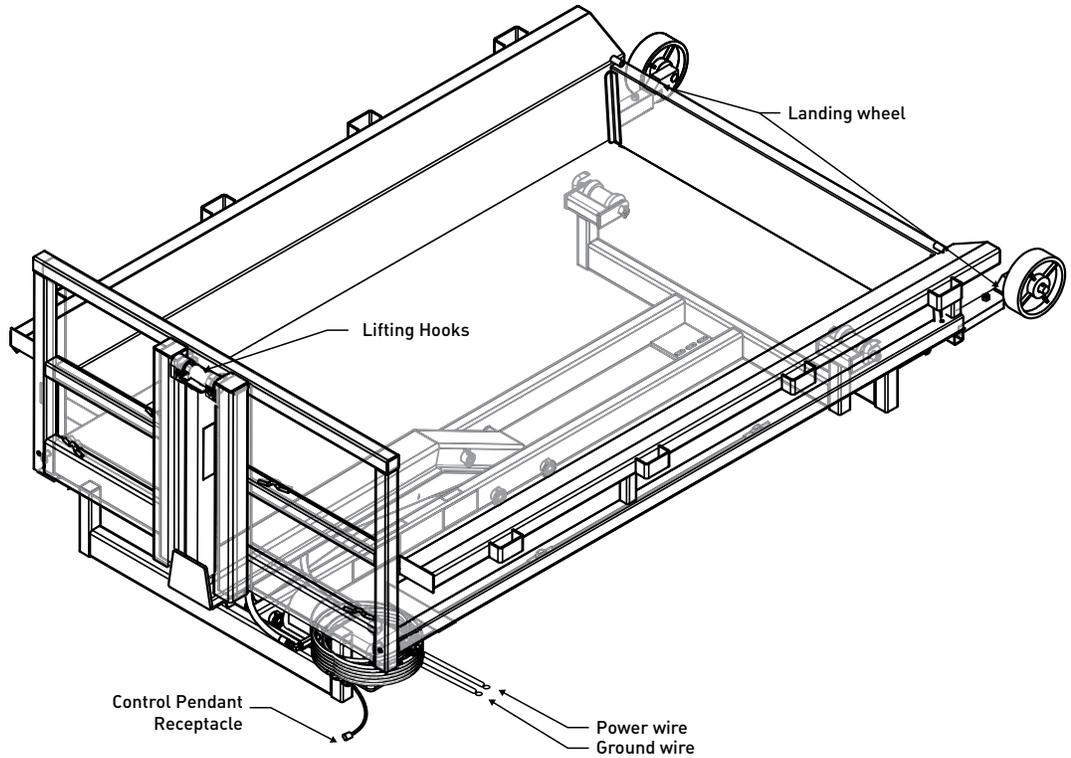
- Step 1—** Place the pallet with the lift system onto level ground/surface.
- Step 2—** Ensure there is enough space on all sides of the lift system, to dismount/mount any deck from the lift system, this includes backing the vehicle up to the pallet once complete.
- Step 3—** Cut all exterior banding covering the exterior of the crate/pallet.

## **⚠ NOTICE**

With Flat Pack AmeriDeck™ (FPA) Units, Do not remove any screw off the top pallet shell before removing.

- Step 4—** Lift off the top pallet Shell off the bottom pallet and set aside.
- Step 5—** Cut all banding securing components to the crate.
- Step 6—** Place deck's bulkhead & system lift arm aside for later assembly.

FIGURE 1.C



**⚠ NOTICE**

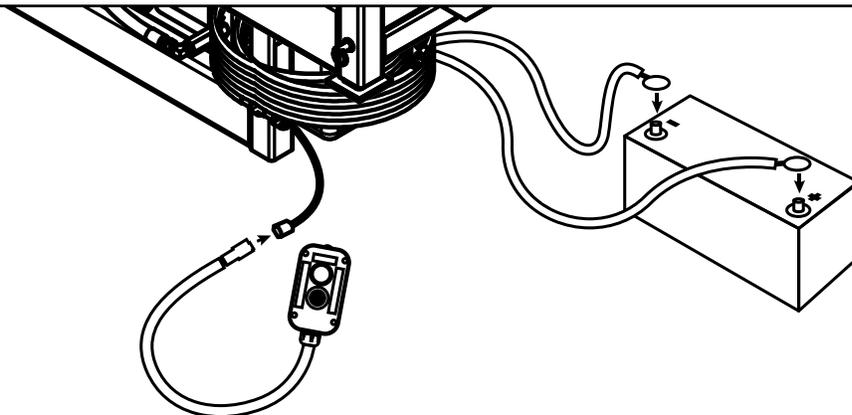
In most cases the deck is purchased with a deck mounted to the lift system and must be dismantled from the lift system to install the system.

**⚠ NOTICE**

The lift system must return to its original retracted position as shipped without the deck mounted, to allow for proper access for drilling of the mounting brackets when placed in the rear of the truck bed/box. The system is supplied with the Hydraulic pump and hydraulic pump cylinder and pre-installed with the hydraulic hoses from the hydraulic pump to the hydraulic pump cylinder.

- Step 1—** Place the pallet with the lift system onto level ground/surface.
- Step 2—** Ensure there is enough space at the rear of the lift system, to dismount any deck mounted to the lift system.
- Step 3—** Install the landing wheels into the deck before extending/dismounting the deck.

FIGURE 1.D



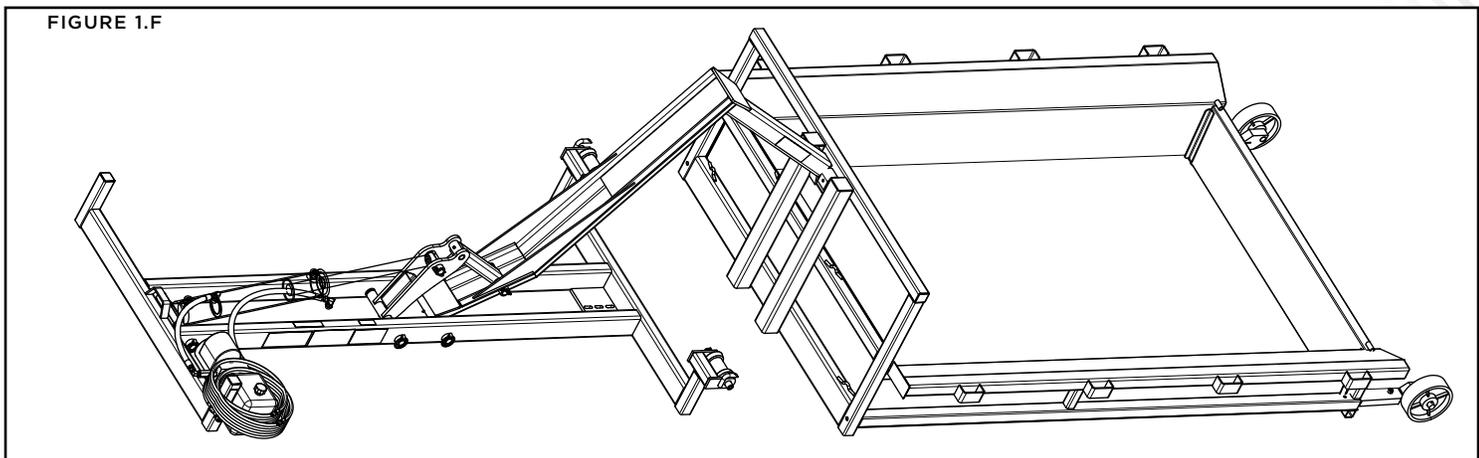
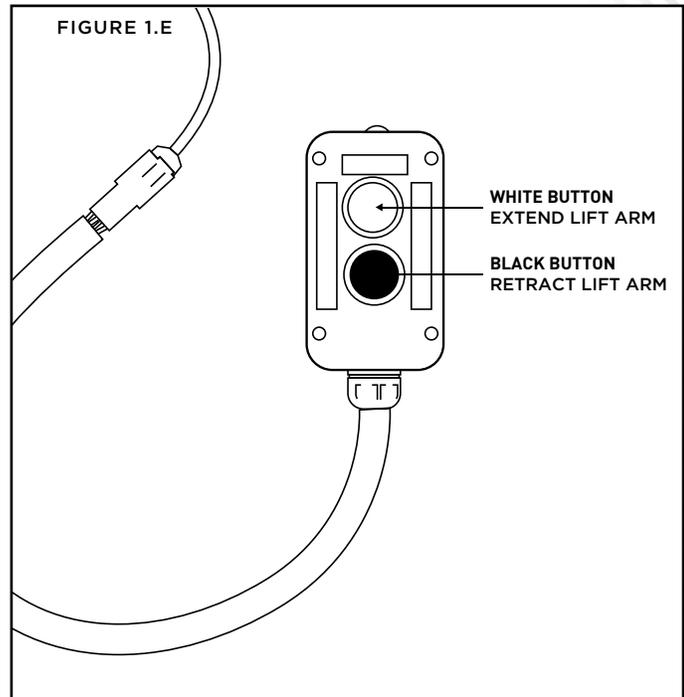
**Step 4—** Locate the ends of the power and ground wire on the front end of the lift system as shown in (Figure 1.A).

- Fasten the #2 gauge black ground wire to the battery (-) terminal connector
- Fasten the #4 gauge red ground wire to the battery (+) terminal connector

**Step 5—** Connect the control pendant into the receptacle located on the driver's side of the lift system as shown in (Figure 1.D).

**Step 6—** Press in the white button farthest from the wire extending the lift arm "OUT" as shown in (Figure 1.E).

**Step 7—** Dismount the deck onto the ground and the deck front feet are on the ground as shown in (Figure 1.F).

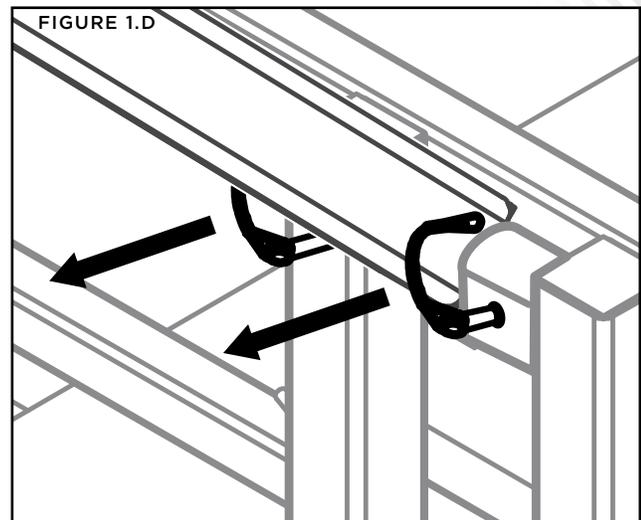


**Step 8—** Locate the bulkhead bar locking pins on the lift system bulkhead, and remove them from the lifting hooks, as shown in (Figure 1.D).

**Step 9—** Pressing the white button on the control pendant will extend the lift arm "OUT", and remove the deck from under the lifting hooks as shown in (Figure 1.B).

**Step 10—** Ensure the lift arm is free of the deck lifting hooks, and press the black button located closest to the wire, to retract "IN" the lift arm to it's original state.

**Step 11—** Disconnect the control pendant and battery so the lift system is not operated accidentally. ■



# AmeriDeck Installation

## Bed/Box Installation Notices

### ⚠ NOTICE

The deck must be disconnected from the lift arm to install the system. The lift arm must be in the original collapsed position, to allow drilling access for the mounting brackets after it is placed into the truck's bed.

### ⚠ NOTICE

The truck's tailgate must be removed to install the AmeriDeck™ lift system. Refer to your truck's manufacturer manual on instructions on how to remove the tailgate.

### ⚠ NOTICE

The installer is responsible for testing that the batteries and alternator are functioning properly and meet the system requirements as stated below. Failure to meet the requirements may result in a weak or non-functioning system.

### ⚠ NOTICE

The installer is responsible for selecting the correct length and bed/box mounting kit as the metal composition can vary between vehicle manufacturers and will require different procedures for installation.

## BED/BOX INSTALLATION KITS

### 6.5' STEEL BED/BOX

The vehicle is equipped with a box/bed that constructed of steel metal



#### REQUIRES

- 6.5' Steel Mounting Brackets
- 6.5' Steel Bolt Kit

### 8' STEEL BED/BOX

The vehicle is equipped with a box/bed that constructed of aluminum metal



#### REQUIRES

- 8' Steel Mounting Brackets
- 8' Steel Bolt Kit

### 6.5' ALUMINUM BED/BOX

The vehicle is equipped with a box/bed that constructed of aluminum metal



#### REQUIRES

- 6.5' Aluminum Mounting Brackets
- Aluminum Mount Kit\*
- Aluminum Bolt Kit

### 8' ALUMINUM BED/BOX

The vehicle is equipped with a box/bed that constructed of aluminum metal

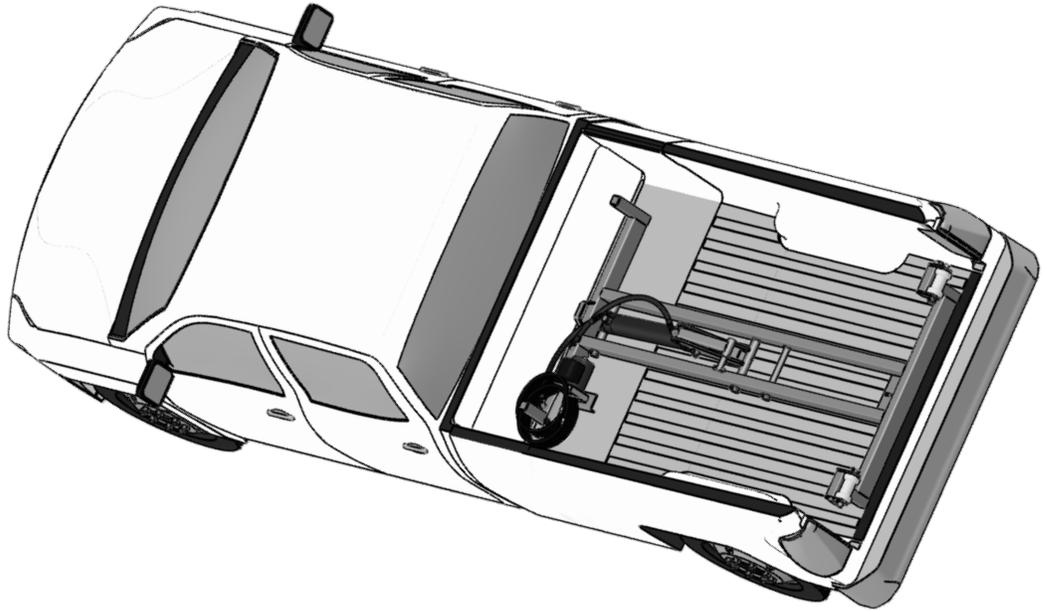


#### REQUIRES

- 8' Aluminum Mounting Brackets
- Aluminum Mount Kit\*
- Aluminum Bolt Kit

\*Aluminum Mount Kit sold separately.

FIGURE 2.A



## Steel Bed/Box Installation

### ⚠ NOTICE

The 6" bolt will be required for installation of a 6.5' lift system. The longer bolt length is required for the rear end of the lift system to reach through the truck's bed/box floor and cross member.

### ⚠ WARNING

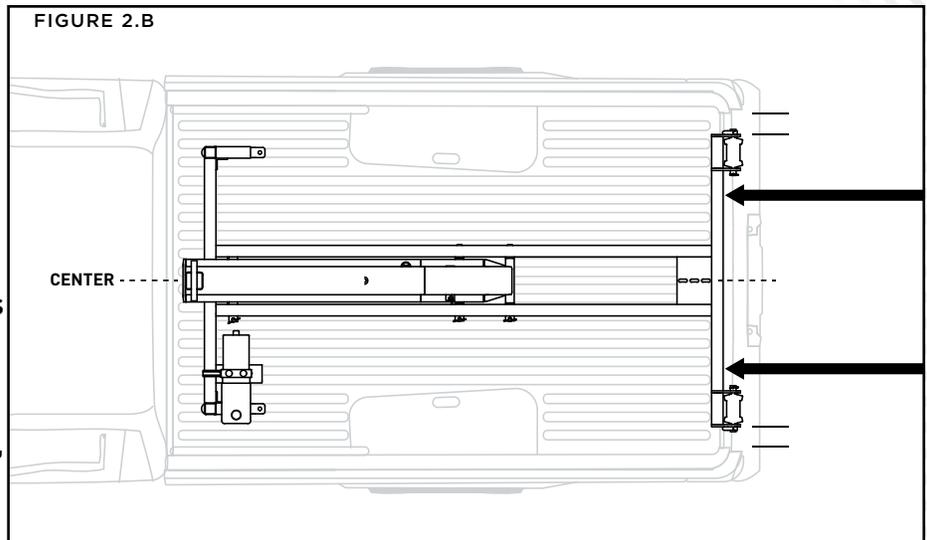
Before drilling holes check underneath the truck's bed/box floor is clear of any objects or obstructions; such as wires, gas tanks, gas lines, brake lines, heat shields, or unnecessary cross-members under the truck floor b/bed/box that could be in the way of drilling or interfere with the mounting bracket.

**Step 1—** Securely lift the lift system in the prepared vehicle bed/box. Position the lift system in the center of the vehicle, as shown in (Figure 2.B).

**Step 2—** Align the rear of the lift system with the end of the truck's bed/box . Ensure the rollers must extend farther than the end of the bed to support the deck during loading/unloading process.

**Step 3—** Ensure before drilling holes to check underneath the truck's bed/box floor is clear of any objects or obstructions; such as wires, gas tanks, gas lines, brake lines, heat shields, etc.

FIGURE 2.B



## ⚠ NOTICE

Drill a small pilot hole through the bed/box floor using the pre-drilled holes is recommended to ensure the drill bit clears any obstructions underneath the bed/box.

## ⚠ WARNING

Before drilling holes check underneath the truck's bed/box floor is clear of any objects or obstructions; such as wires, gas tanks, gas lines, brake lines, heat shields, or unnecessary cross-members under the truck floor bed/box that could be in the way of drilling or interfere with the mounting bracket.

- Step 4—** Drill the front end hole through the floor using the pre-drilled holes as a guide on frame mount plates, located on the base with a 9/16"Ø drill bit as shown (Figure 2.B).
- Step 5—** Place a 1/2"Ø 13 UNC x 2 1/2" HHCS grade 5 bolt and 1/2"Ø flat washer into a hole to keep the frame in position before drilling the second hole located on the rear of the base.
- Step 6—** Drill the rear end hole through the floor using the pre-drilled holes as a guide on frame mount plates, located on the base with a 1/2"Ø drill bit as shown (Figure 2.B).

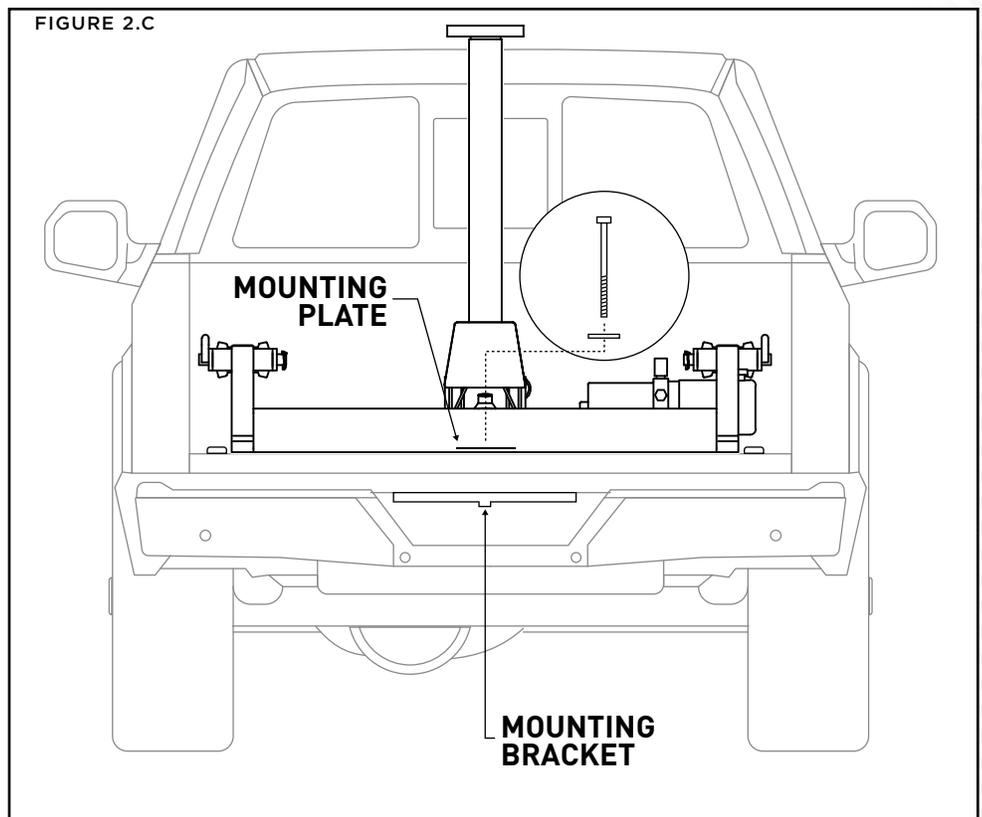
### Requirement | 6.5' Lift System

- Drilling through the bed/box cross-member to attach the mounting plate.
- 1/2"Ø 13 UNC x 6 1/2" HHCS Grade 5 Bolt and 1/2"Ø flat washer

### Requirement | 8' Lift System

- Drilling through only the bed/box to attach the mounting plate.
- 1/2"Ø 13 UNC x 2 1/2" HHCS Grade 5 Bolt and 1/2"Ø flat washer

- Step 7—** Locate the holes underneath the bed/box and align the mounting brackets to the holes underneath the truck box floor.
- Step 8—** With assistance of another person, fasten down bolt and washer down through the base/and bed/box, secure with torque driver, with 80 lbs-ft of torque on each bolt to the 16" mounting bracket underneath as shown in (Figure 2.C). ■



## ⚠ NOTICE

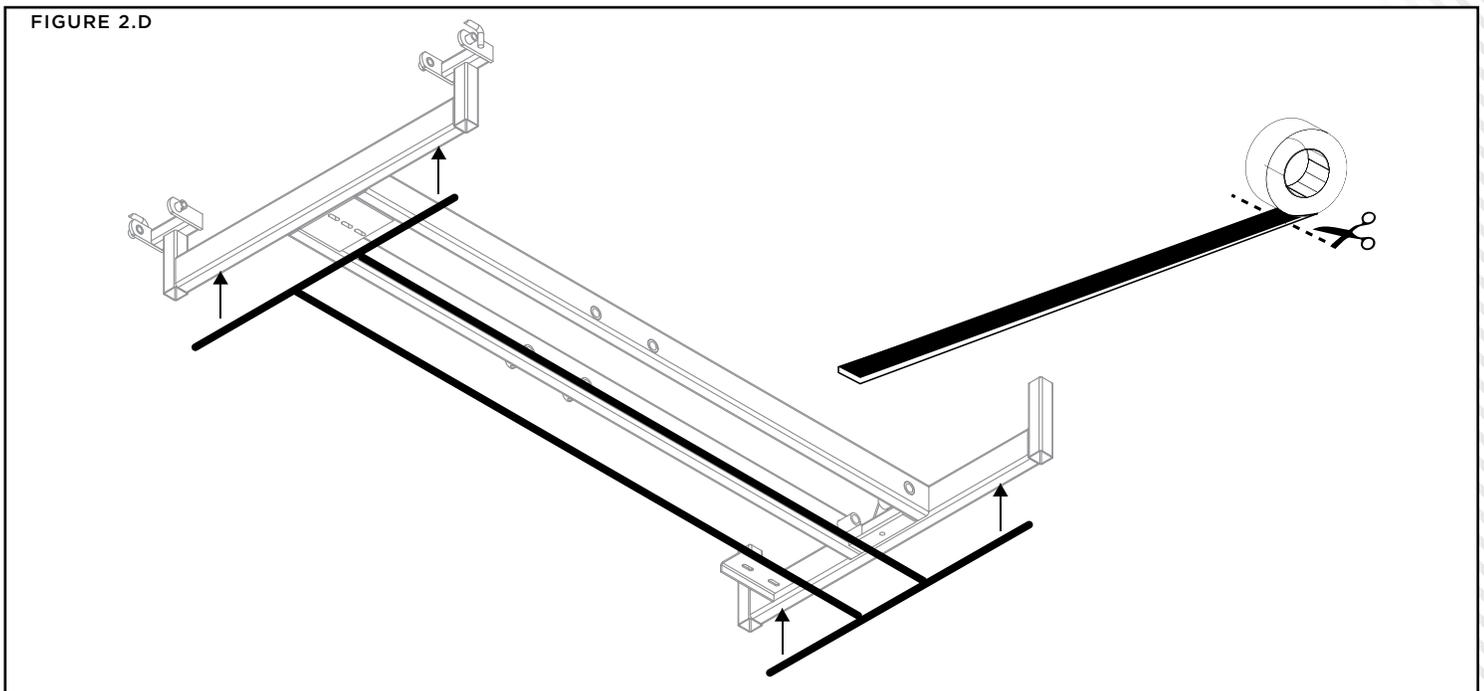
When fastening the mounting brackets, ensure to not over-tighten the brackets and distort the bed floor or vehicle's chassis cross-member or frames.

## ⚠ NOTICE

Drill a small pilot hole through the bed/box floor using the pre-drilled holes is recommended to ensure the drill bit clears any obstructions underneath the bed/box.

## ⚠ WARNING

Before drilling holes check underneath the truck's bed/box floor is clear of any objects or obstructions; such as wires, gas tanks, gas lines, brake lines, heat shields, or unnecessary cross-members under the truck floor bed/box that could be in the way of drilling or interfere with the mounting bracket.



**Step 1—** Securely lift the lift system off the ground.

**Step 2—** Apply the polyethylene foam to the bottom of the lift system, as shown in (Figure 2.D). This is used to insulate the steel lift system from the aluminum bed/box.

### Measure and Cut:

- (2) 46 1/2" lengths | for the front and rear rails
- (2) 86" lengths | for the both center rails

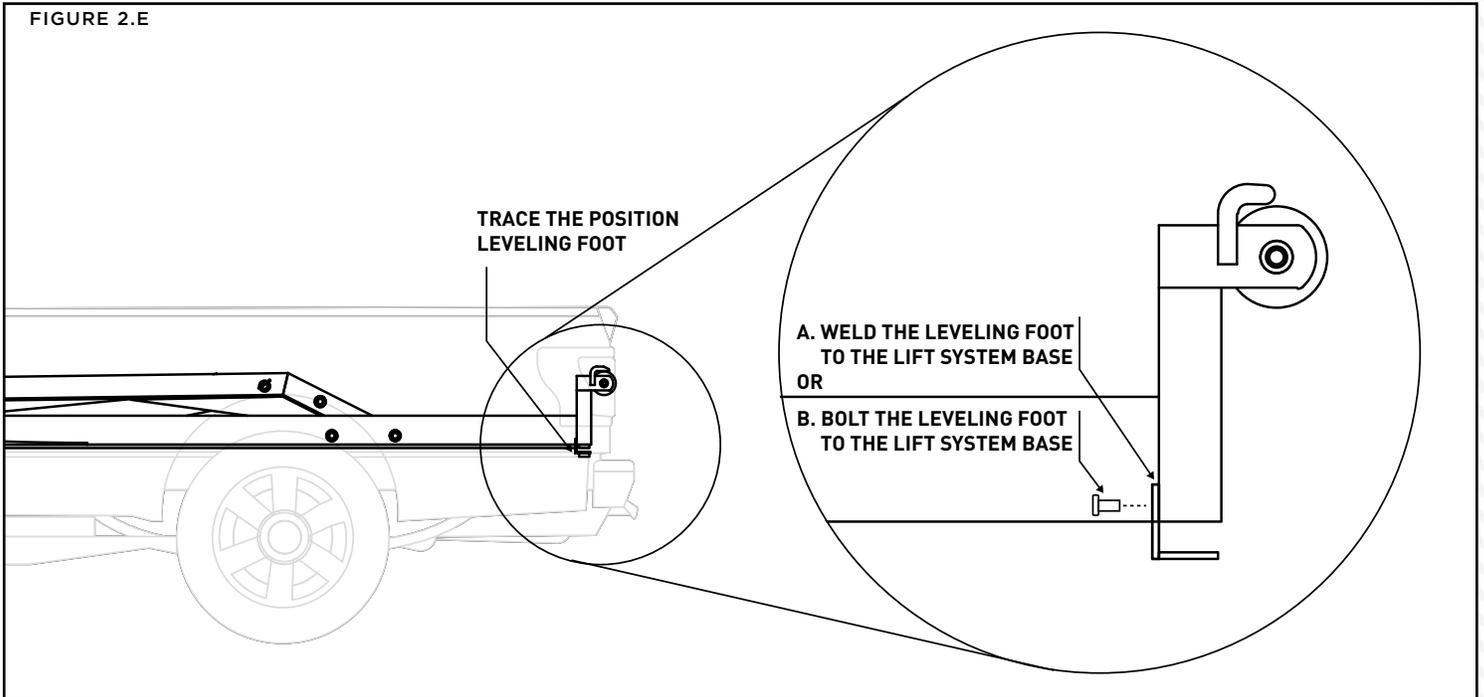
## ⚠ NOTICE

When placing into the prepared vehicle, ensure to not to slide the lift system as the Foam will peel off.

**Step 3—** Securely lift the lift system in the prepared vehicle bed/box. Position the lift system in the center of the vehicle, as shown in (Figure 2.C).

**Step 4—** Inset the rear of the lift system 1/4" from the end of the the truck's bed/box. Ensure the rollers must extend farther than the end of the bed to support the deck during loading/unloading process.

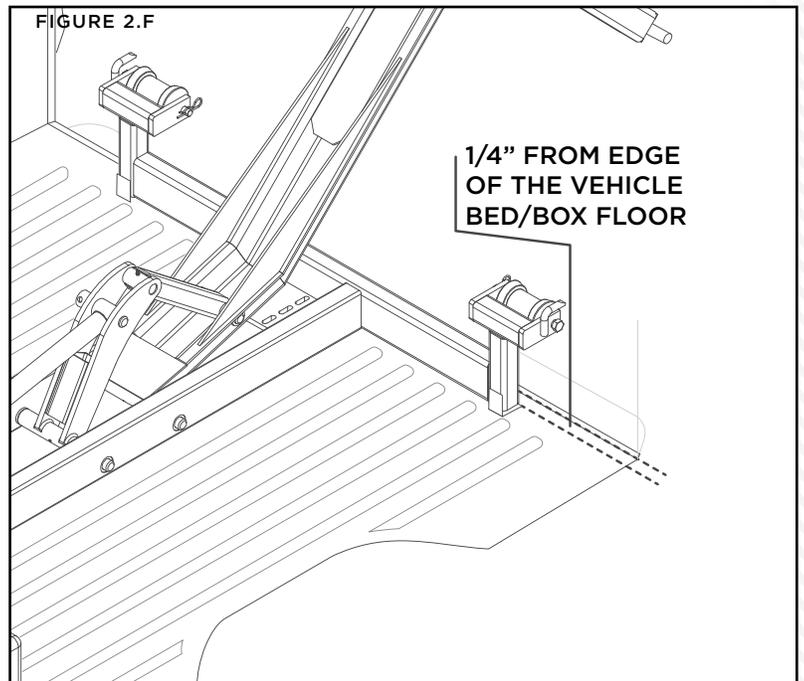
FIGURE 2.E



## **⚠ WARNING**

**DO NOT WELD TO THE VEHICLE CHASSIS.** This may void the vehicle or Switch-N-Go® warranty, and/or may cause serious injury or death.

- Step 5—** Ensure lift system is level on the bed/box and the rails are not resting on any vehicle's bed mounting bolts.
- Step 6—** Holding the lift system onto the bed/box, place the (2) leveling feet the bed and align it with the outside edges of the on the front side of the rear rail, as shown in (Figure 2.E).
- Step 7—** Attach the Leveling feet by following either the **WELDING OR BOLTING PROCEDURE**, on page 15.
- Step 8—** Ensure the rear of the lift system 1/4" from the end of the the truck's bed/box. Ensure the rollers must extend farther than the end of the bed to support the deck during loading/unloading process, as shown in (Figure 2.F).
- Step 9—** Ensure before drilling holes to check underneath the truck's bed/box floor is clear of any objects or obstructions; such as wires, gas tanks, gas lines, brake lines, heat shields, etc.
- Step 10—** Drill the rear end hole through the floor using the pre-drilled holes on frame mount plates, located on the base with a 1/2"Ø drill bit as shown (Figure 2.G).



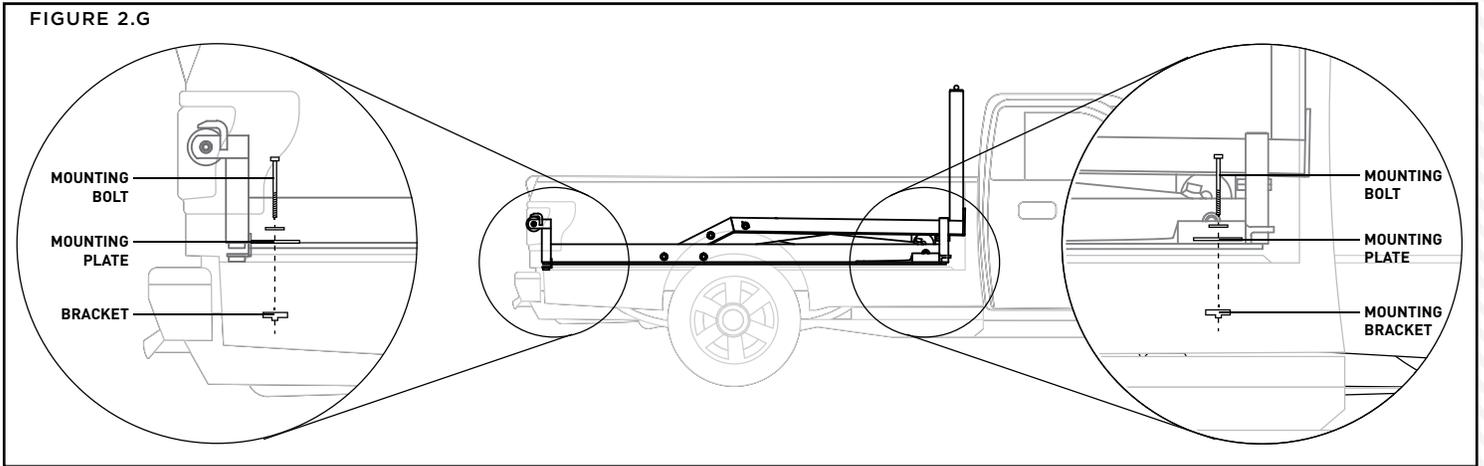
## WELDING THE LEVELING FEET PROCEDURE

- Step 1—** With a scribe, trace an outline around the (2) leveling feet on the front side of the rear rail of the lift system.
- Step 2—** Remove the lift system from the truck bed/box.
- Step 3—** Shield the vehicle from any hazards from grinding/welding/painting.
- Step 4—** Grind the powder coating off the lift system previously traced out.
- Step 5—** Clamp each leveling foot to the lift system rear rails ensuring it rests level with the side of the rails.
- Step 6—** Weld the leveling feet to the lift system rear rails.
- Step 7—** Remove clamps holding the leveling feet grind the welds and clean surface.
- Step 8—** Protect components/mechanisms from over-spray by covering before applying paint.
- Step 9—** Paint any exposed or bare metal with primer coating.
- Step 10—** Paint any primed areas with multiple coats of black color that matches the coating on the lift system. Ensure proper drying times before applying another coat of paint.
- Step 11—** Apply polyethylene foam to the bottom of each of the leveling feet.
- Step 12—** Securely lift the lift system in the prepared vehicle bed/box. Position the lift system in the center of the vehicle.

## BOLTING THE LEVELING FEET PROCEDURE

- Step 1—** After Setting the Leveling Feet In place on the system as shown in (Figure 2.D).
- Step 2—** Mark 4 Hole Locations on the Leveling Feet.
- Step 3—** Apply polyethylene foam to the bottom of each of the leveling feet.
- Step 4—** Drill (2) 11/32" Holes in each of the leveling feet then drill (2) tapping holes with Letter I or 6.3mm drill bit into the base assembly.
- Step 5—** Secure the leveling feet to the base system with the (4) supplied 5/16"Ø X 1" self tapping screws.
- Step 6—** Clean Leveling Protect components/mechanisms from over-spray by covering before applying paint.
- Step 7—** Paint any exposed or bare metal with primer coating.
- Step 8—** Paint any primed areas with multiple coats of black color that matches the coating on the lift system. Ensure proper drying times before applying another coat of paint.

FIGURE 2.G



**Step 11—** Place a 1/2"Ø 13 UNC x 2 1/2" HHCS grade 5 bolt and 1/2"Ø flat washer into a hole to keep the frame in position before drilling the second hole located on the front of the base.

**Step 12—** Locate the rear hole underneath the truck's bed/box floor and fasten but not tighten the 20" mounting bracket to the holes underneath the truck bed/box floor.

**Step 13—** Drill the front end hole through the floor using the pre-drilled holes on frame mount plates, located on the base with a 1/2"Ø drill bit as shown (Figure 2.G).

**Requirement | 6.5' Lift System**

- Drilling through only the bed/box to attach the mounting plate
- 1/2"Ø 13 UNC x 7" HHCS Grade 5 Bolt and 1/2"Ø flat washer

**Requirement | 8' Lift System**

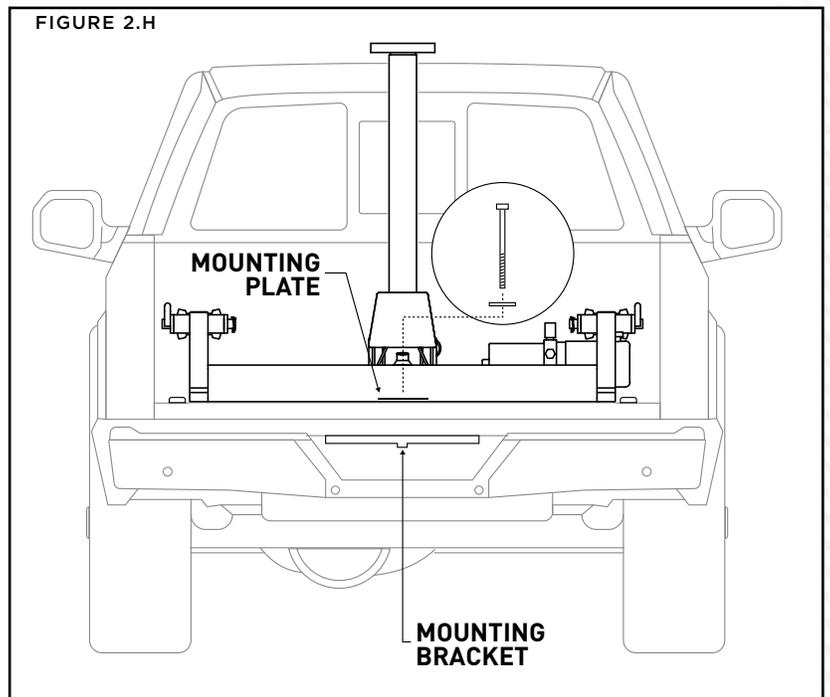
- Drilling through only the bed/box to attach the mounting plate.
- 1/2"Ø 13 UNC x 7" HHCS Grade 5 Bolt and 1/2"Ø flat washer

**Step 14—** Locate the front hole underneath the truck's bed/box floor and fasten but not tighten the 6" mounting bracket to the holes underneath the truck bed/box floor.

**Step 15—** With assistance of another person, tighten down bolt and washer down through the base and truck's bed/box floor, secure with torque driver, with 80 lbs-ft of torque on each bolt to the 20" mounting bracket underneath as shown in (Figure 2.H).

**Step 16—** Fasten the provided 1/2"Ø Locknut to bolt underneath the mounting bracket. ■

FIGURE 2.H



## INSTALLATION OF GROUND WIRE

- Step 1—** Ensure the vehicle is turned off and batteries are disconnected before continuing steps to install the in-cab harness.
- Step 2—** Drill (2) 9/16" holes into either the floor of the bed/box or cab-side wall.
- Step 3—** Locate the 252" (21') #2 gauge black ground wire attached to hydraulic power pack on the lift system.
- Step 4—** Route the ground #2 gauge wire from the lift system either through the bed floor/wall, up to the battery-side of the engine compartment.
- Step 5—** Ensure to secure the ground wire cable along the vehicle chassis frame and engine compartment, free from any pinch points or moving components that may result in a weak or non-functioning system.
- Step 6—** Fasten the end of the ground wire to the battery (-) terminal connector. ■

### NOTICE

Ensure the ground wire from the battery terminal to the chassis has been disconnected before beginning installation of the power wire onto lift system.

## INSTALLATION OF THE POWER WIRE

- Step 1—** Ensure the vehicle is turned off and batteries are disconnected before continuing steps to install the power wire.
- Step 2—** Locate the 252" (21') #4 gauge red ground wire attached to hydraulic power pack on the lift system.
- Step 3—** Route the ground #4 gauge wire from the lift system either through the bed floor or over the front side of the bed between the cab and the bed/box up to the battery area.
- Step 4—** Ensure to secure the ground wire cable along the vehicle chassis frame and engine compartment, free from any pinch points or moving components that may result in a weak or non-functioning system. ■

## INSTALLATION OF THE CIRCUIT BREAKER

- Step 1—** Ensure the vehicle is turned off and batteries are disconnected before continuing steps to install the power wire.
- Step 2—** Position and fasten the provided circuit breaker near the battery less than 18" from the truck battery.
- Step 3—** Strip the ends of the 18" (1.5') #4 gauge battery/circuit cable and #4 power wire.
- Step 4—** Fasten 18" (1.5') #4 gauge battery/circuit cable to the bottom-left side of the circuit breaker and then fasten the other end of the battery (+) terminal connector.
- Step 5—** Fasten the routed #4 gauge power wire cable to the top-right side of the circuit breaker.
- Step 6—** Spray all electrical terminals and connections with corrosion resistant grease (such as white lithium grease or other equivalent dielectric grease).
- Step 7—** Use the 5 rubber loop straps & several additional self-tapping screws to secure the power and ground wires routed underneath the truck and through the engine compartment.
- Step 8—** Ensure to secure the all wires cable along the vehicle chassis, free from any pinch points, exhaust heat or moving components that may result in a weak or non-functioning system. ■

- Step 1—** With the provided sign plate, place the sign against the base of the system.
- Step 2—** Center align the sign plate in the bed against the lift system base rear and the bed floor.
- Step 3—** Fasten (4) of the 1/4" x 1" self tapping screws along the rear cross-member provided in the installation kit.

## FMVSS Camera Compliance

### **⚠ WARNING**

In accordance with FMVSS 111, a rear vision system will need to be installed, or adapted to the existing system supplied with the vehicle.

- Step 1—** A rear vision system will need to be installed, or adapted to the existing system supplied with the vehicle.
- Step 2—** Follow the instructions to indicated in your vehicle's manufacturer manual on how to remove the camera from the tailgate, if applicable. Adapt the camera system, with additional components not provided with lift system. ■

## Lubricate the Lift System

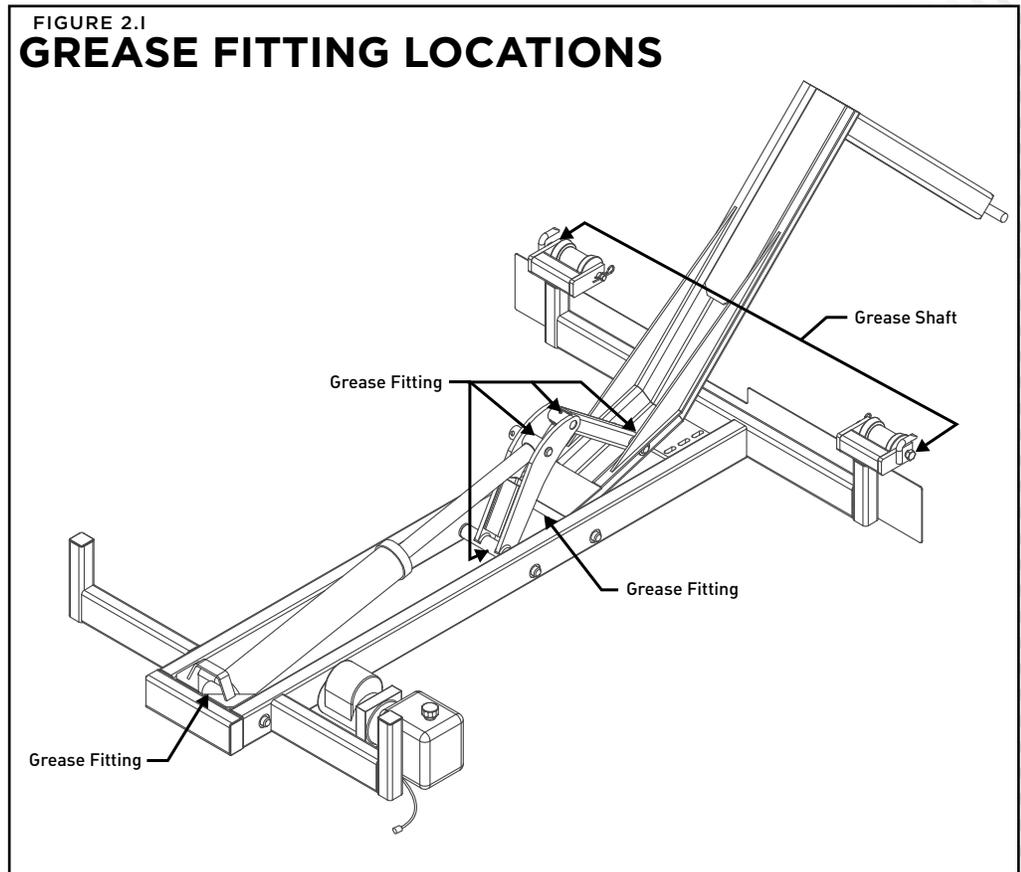
### **⚠ NOTICE**

Lubrication is vital to preventing premature wear as this may result in the hoist system malfunction or system failure.

Lubricate the following locations with either run-out or marine grease, as shown in (Figure 2.1).

#### **GREASE FITTING LOCATIONS**

- Grease the two keel roller shafts located at the rear of the lift system
- (3) Grease fittings are located along the system linkage
- A grease fitting is located on the bottom end of the lift arm
- (2) Grease fittings are located on both of the ends of hydraulic pump cylinder



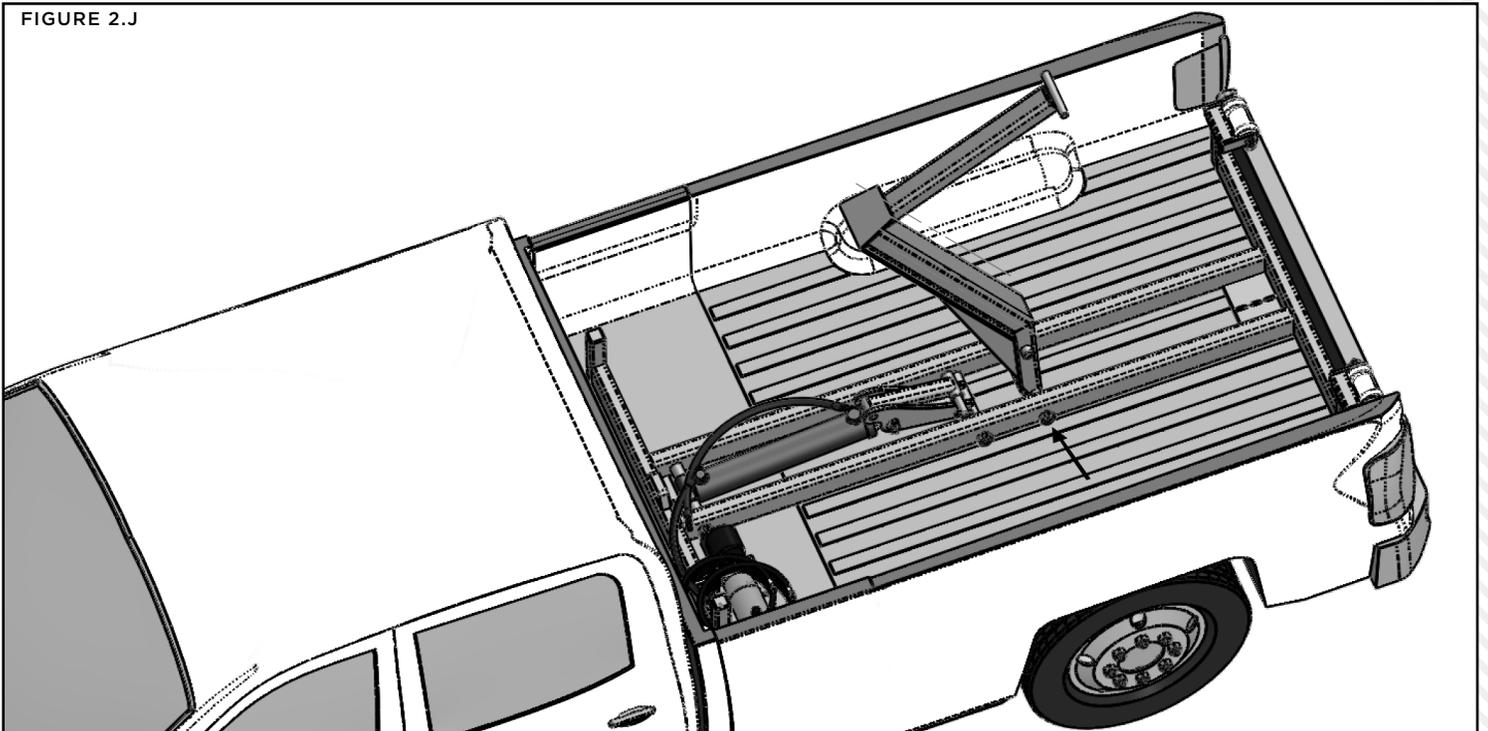
**PRIME THE HYDRAULIC SYSTEM**

- Step 1—** Located on the hydraulic power pack, remove the breather cap from the reservoir.
- Step 2—** Ensure the hydraulic reservoir has 1/2" void from the top of the reservoir.
- Step 3—** Connect the control pendant into the receptacle located on the driver's side of the lift system.
- Step 4—** Press in the white button farthest from the wire activating the lift arm "OUT" to farthest point.
- Step 5—** Quickly cycle the hoist system "IN" and "OUT", repeat this minimum 15 times will remove any air pockets trapped in the hydraulic lines and cylinder.
- Step 6—** Retract the lift arm "IN", by pressing the black button.
- Step 7—** Ensure the lift arm is retracted before adding more fluid to the reservoir.
- Step 8—** Top off the hydraulic reservoir when the hydraulic system is completely primed. Leave at minimum a 1/2" void in the tank to allow the hydraulic oil to move during operation.
- Step 9—** Place and tighten the breather cap on the reservoir. ■

**Lift System Assembly****ATTACH THE LIFT ARM**

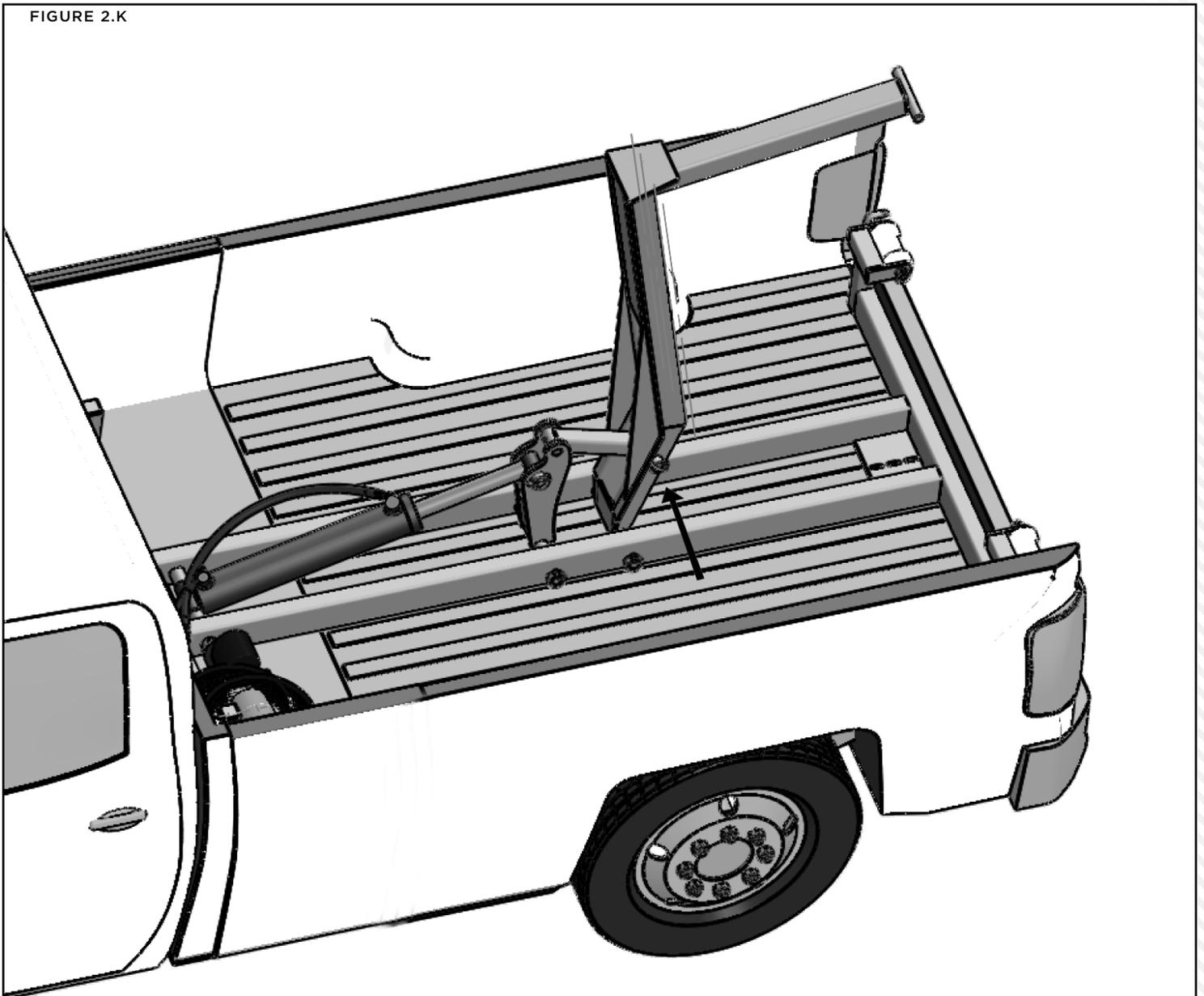
- Step 1—** Connect the control pendant into the receptacle located on the driver's side of the lift system.
- Step 2—** Press in the white button farthest from the wire extending the lift arm "OUT", minimum 6" of the hydraulic cylinder shaft, ensure to protect the exposed shaft from scratches.
- Step 3—** Lift and set the lift arm lower pivot between the frame rails at the rear most pair of bushings, as shown in (Figure 2.J.).

FIGURE 2.J



- Step 4—** Locate the side hole in the bushing collar and align with hole in the pin and insert the lynch pin to secure.
- Step 5—** After the pin is inserted, align the side holes in the pin with the holes in the bushings and insert the lynch pin to secure.
- Step 6—** Insert upper linkage arm bushing into the upper lift arm pivot bushing and align the holes, as shown in (Figure 2.K).
- Step 7—** Insert the Ø1" x 3 1/2" pin in the bushing holes.
- Step 8—** Locate the side hole in the bushing collar and align with the in pin and insert the lynch pin to secure. ■

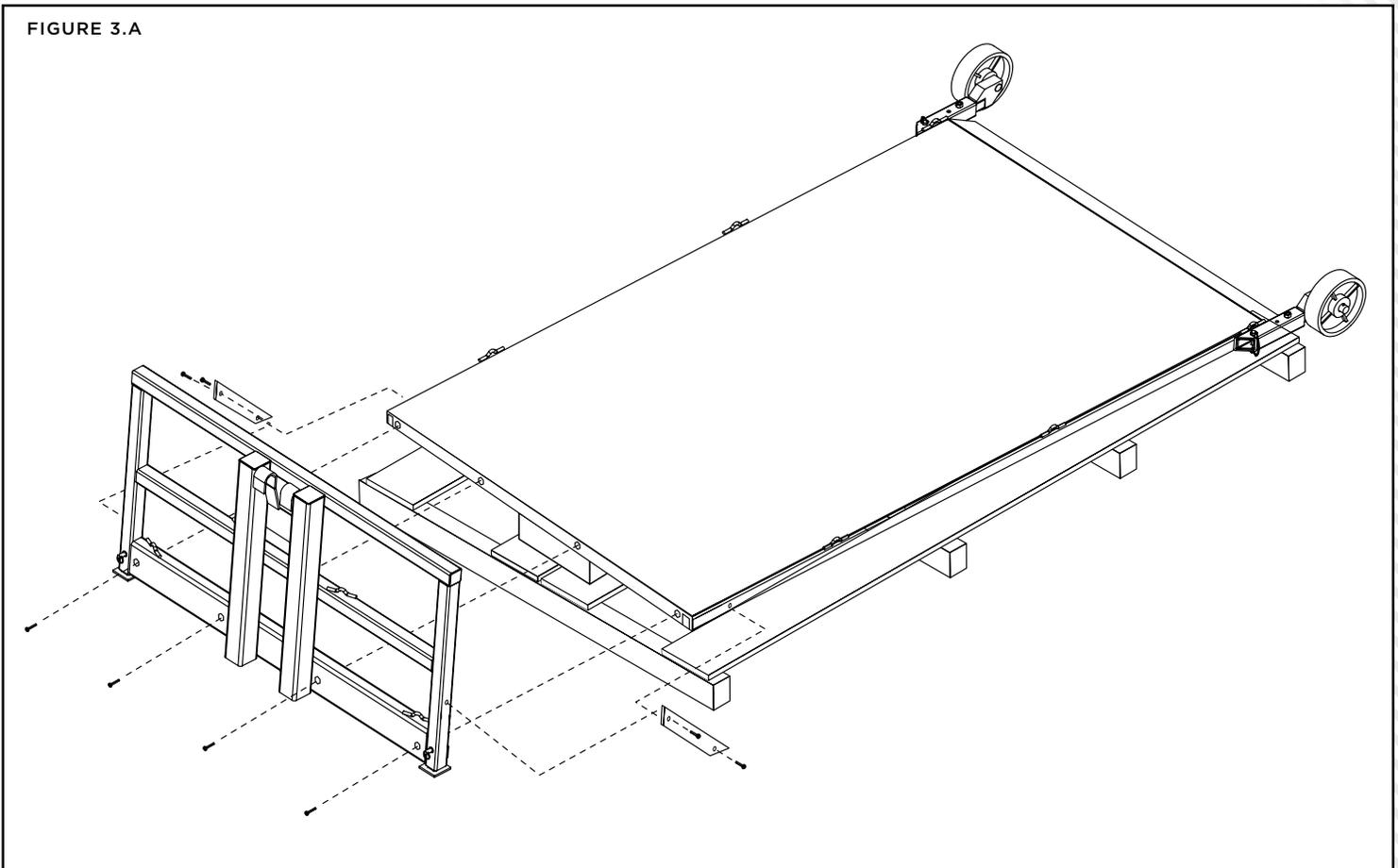
FIGURE 2.K



**MOUNT THE DECK BULKHEAD**

- Step 1—** Locate the front of the Bulkhead, and prop the deck up under the front cross-member, as shown in (Figure 3.A).
- Step 2—** Align the bulkhead bottom holes with the deck holes, ensuring to the lifting hooks are facing outward from the deck, as shown in (Figure 2.A).
- Step 3—** Place (4) 3/4"Ø 13 UNC x 5" HHCS grade 5 bolt and 3/4"Ø flat washer through bulkhead & deck and secure with a 3/4" locknut inside the bottom of the deck.
- Step 4—** Align the (2) side diagonal straps to the bulkhead and deck, as shown in (Figure 3.A).
- Step 5—** Secure the strap with a 1/2"Ø 13 UNC x 2 3/4" HHCS grade 5 bolt and 1/2" washer and secure with a 1/2" locknut inside the bottom of the deck.
- Step 6—** Square up the bulkhead to the deck with a 90° angle, Fully tighten all bolts to specifications:
  - Secure with torque driver, with 57 lbs-ft of torque on each 1/2" Ø bolt
  - Secure with torque driver, with 200 lbs-ft of torque on each 3/4"Ø bolt
- Step 7—** Install the landing wheels into the deck before moving the deck.

FIGURE 3.A





# Optional Installation

## Wireless Remote Control Pendant

### NOTICE

These instructions for installing Wireless Remote Control Pendant are intended to be a general guide to help the installer. The wireless remote kit will require additional wiring, components, connectors for the ground/power wire.

### WARNING

Doing this Installation, will require modifying the original wiring of the lift system. This will require purchasing a new control pendant harness and installing according to its original specifications see refer to INSTALLATION section (page 12) for the lift system wiring diagram.

## Installation

- Step 1—** Turn off vehicle by either turning the key or pressing the vehicle start/stop button without pressing on the brake pedal.
- Step 2—** Disconnect the (-) cable by safely loosening the connector nut on the battery terminal.
- Step 3—** Disconnect the (+) cable by safely loosening the connector nut on the battery terminal. Do not allow battery terminals to come in contact with either the truck components or vehicle chassis frame as this could cause a short circuit and result in fire or serious damage, injury or death.
- Step 4—** Securely route both the power (+) wire cable and ground (-) wire cable from the truck bed/box underneath the cab and to the battery compartment. Ensuring that the 10 AMP fuse is next to the battery, as shown in (Figure 4.B).
- Step 5—** Connect the power wire routed from the battery area to the (red) wire of the wireless remote receiver box with a butt connector.
- Step 6—** Connect the ground wire routed from the battery area to the (black) wire of the wireless remote receiver box with a butt connector.
- Step 7—** Cut and Remove the existing control pendant pump harness plug from the hydraulic power pack.
- Step 8—** Strip 1/2" of the insulation off the wire to expose the wire green and red wires, and strip each of the wire ends.
- Step 9—** Connect the wires from the hydraulic power pack to the Wireless receiver box as show in (Figure 4.A).
- Step 10—** Fasten the ground wire routed from the wireless receiver to the (-) cable and reconnect the connector to the battery terminal.
- Step 11—** Fasten the power wire routed from the wireless receiver to the (+) cable and reconnect the connector to the battery terminal.
- Step 12—** See reference HOW TO LEARN A TRANSMITTER section on how to program the wireless remote, by following the instructions in wireless remote kit documents. ■

FIGURE 4.A

## WIRELESS CONTROL PENDANT WIRING

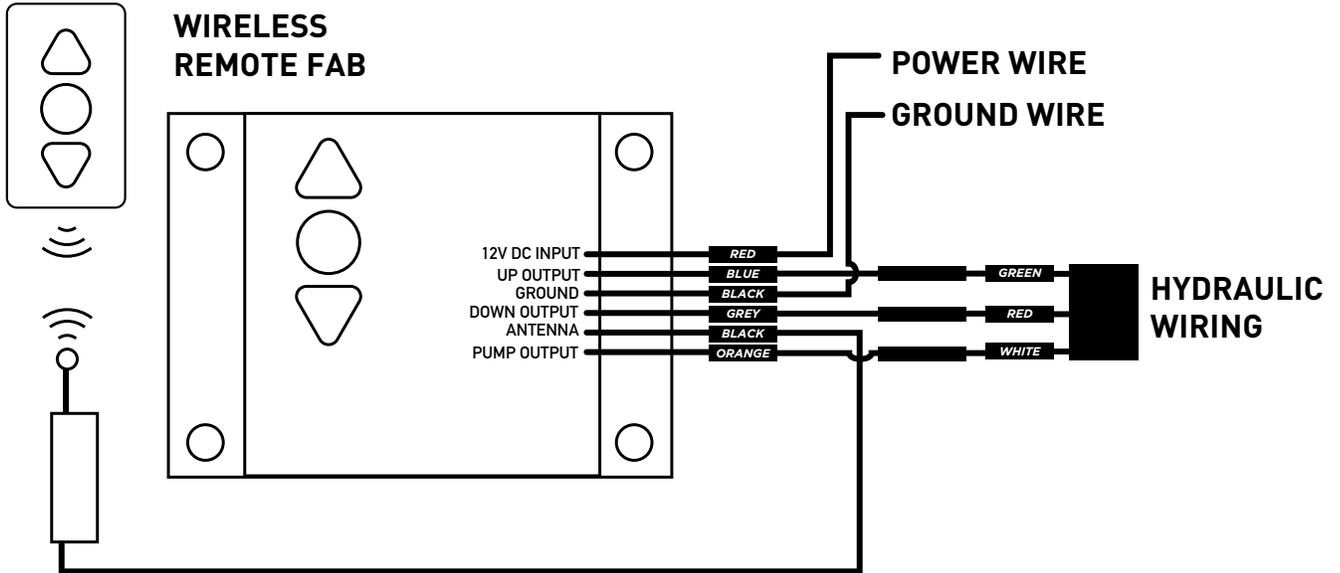
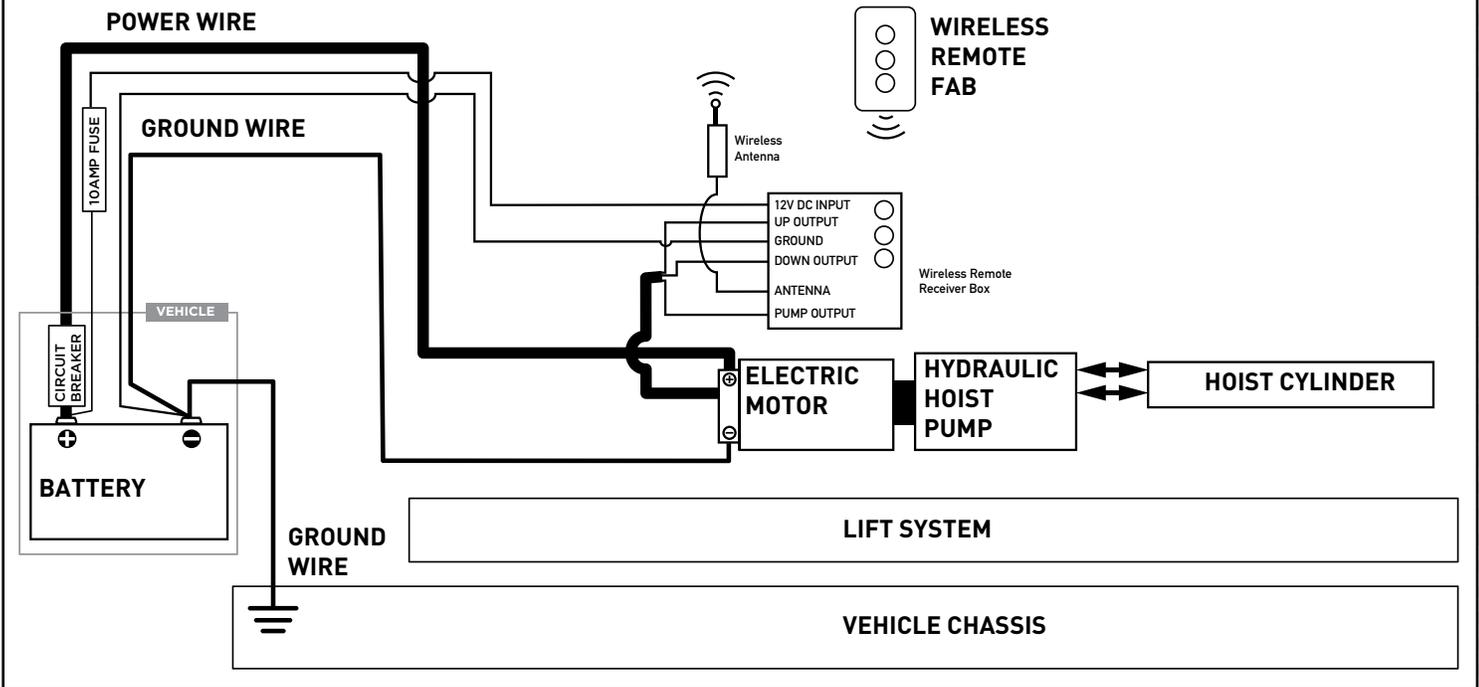


FIGURE 4.B

## SYSTEM DIAGRAM WITH WIRELESS PENDANT



# AmeriDeck System Checklist

## Installation Completion Checklist

The installation completion checklist must be filled out by the installer after the installation(s) is completed. If hoist system is not operating correctly, see refer to INSTALLATION section (page 12) or TROUBLESHOOT section (page 32) within the installation manual.

- Check all nuts and bolts are properly torqued, using the torque chart on the next page.
- Check to make sure all electrical connections and wires are tight and free from all pinching or cutting hazards, as this may lead to malfunctions or damages.
- Check all grease fittings are lubricated with either (run-out or marine) grease.
- Check all hydraulic fittings are free of leaks. When checking for leaks please wear protective eye wear and gloves to protect face and hands or body from high pressure leaks.
  - Check all high pressure hoses, connected the hydraulic pump to the cylinder.
- Check all hydraulic fluids are properly filled to levels indicated and hydraulic system is primed before operation.
- Check that the batteries and fuses have been reconnected and are working properly.
- Test the functions of the control pendant are working properly.
  - Press in the white button farthest from the wire activating the lift arm "IN" to retracting the lift arm in.
  - Press in the white button closest from the wire activating the lift arm "OUT" to extending the lift arm out.
- Test the system to its maximum operating capacity, by fully operating the lift arm out to its farthest point.
- Sign and initial that the vehicle is ready for operation. Please review operation manual for more information on how to properly operate the AmeriDeck™ lift system.

Serial Number

Model

Installer Name \_\_\_\_\_

Installer Signature \_\_\_\_\_

Install Date \_\_\_\_ / \_\_\_\_ / \_\_\_\_

# AmeriDeck® Appendix

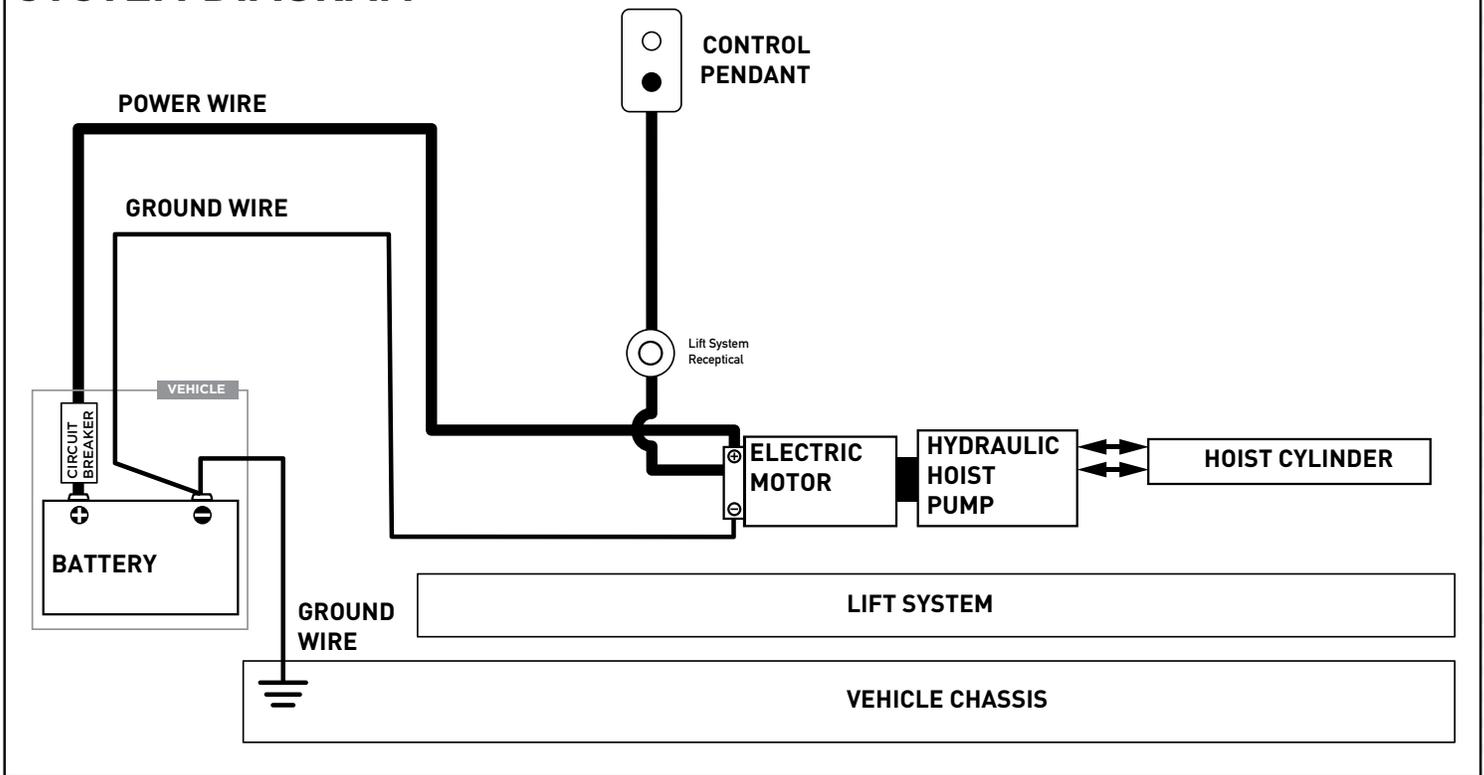
## Torque Table

Size								
	Coarse	Fine	Coarse	Fine	Coarse	Fine	Coarse	Fine
#4*	—	—	—	—	—	—	5.2	—
#6*	—	—	—	—	—	—	9.6	—
#8*	—	—	—	—	—	—	19.8	—
#10*	—	—	—	—	—	—	22.8	31.7
1/4"	4	4.7	6.3	7.3	9	10	6.3	7.8
5/16"	8	9	13	14	18	20	11	11.8
3/8"	15	17	23	26	33	37	20	22
7/16"	24	27	37	41	52	58	31	33
1/2"	37	41	57	64	80	90	43	45
9/16"	53	59	82	91	115	129	57	63
5/8"	73	83	112	128	159	180	93	104
3/4"	125	138	200	223	282	315	128	124
7/8"	129	144	322	355	454	501	194	193
1"	188	210	483	541	682	764	287	289

\*Size from 4-10 are in lb-in  
Size from 1/4 up are lb-ft

†Fine thread figures are 1-14  
Grade 2,5 & 8 values are plated bolts

**SYSTEM DIAGRAM**



**SYSTEM DIAGRAM WITH WIRELESS CONTROL PENDANT**

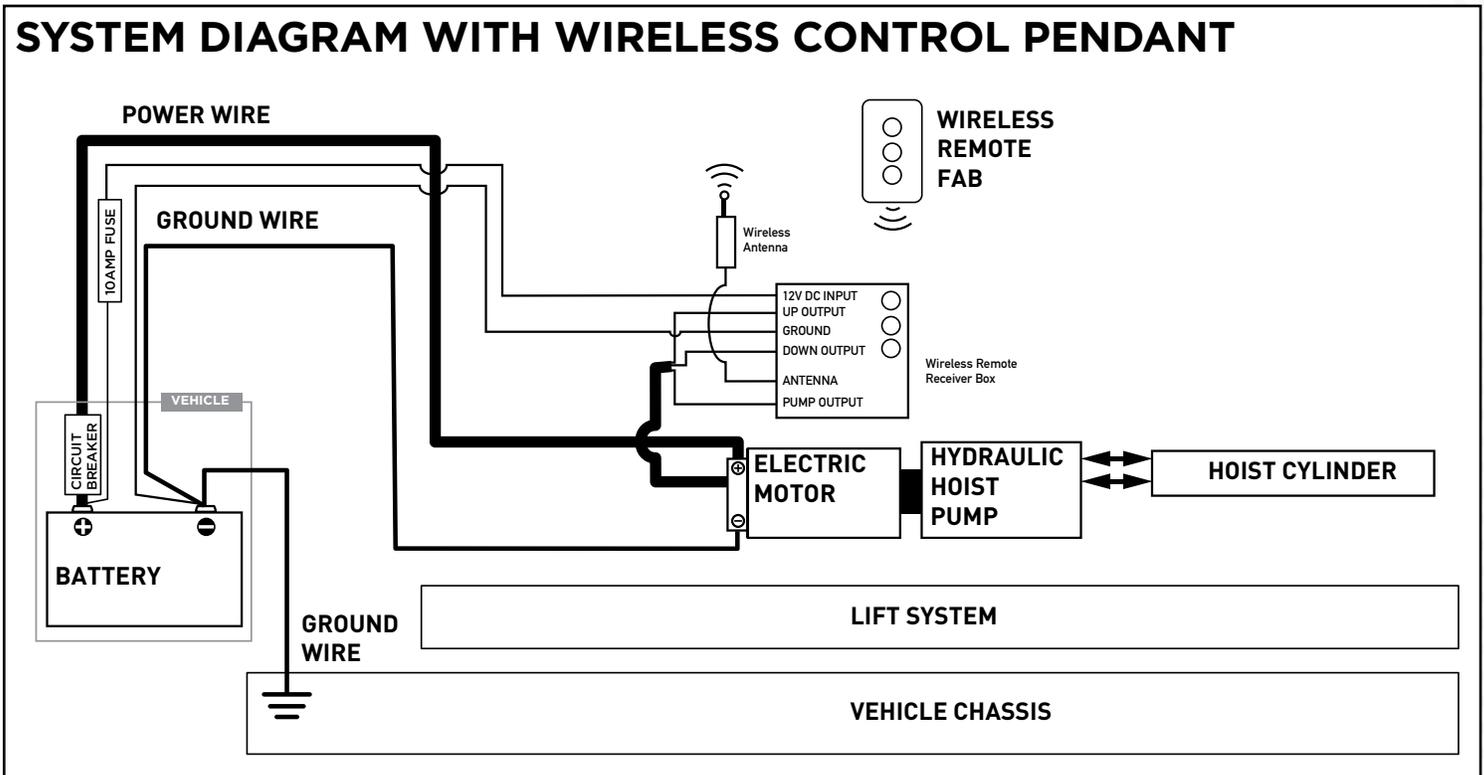


FIGURE 4.A

## WIRELESS CONTROL PENDANT WIRING

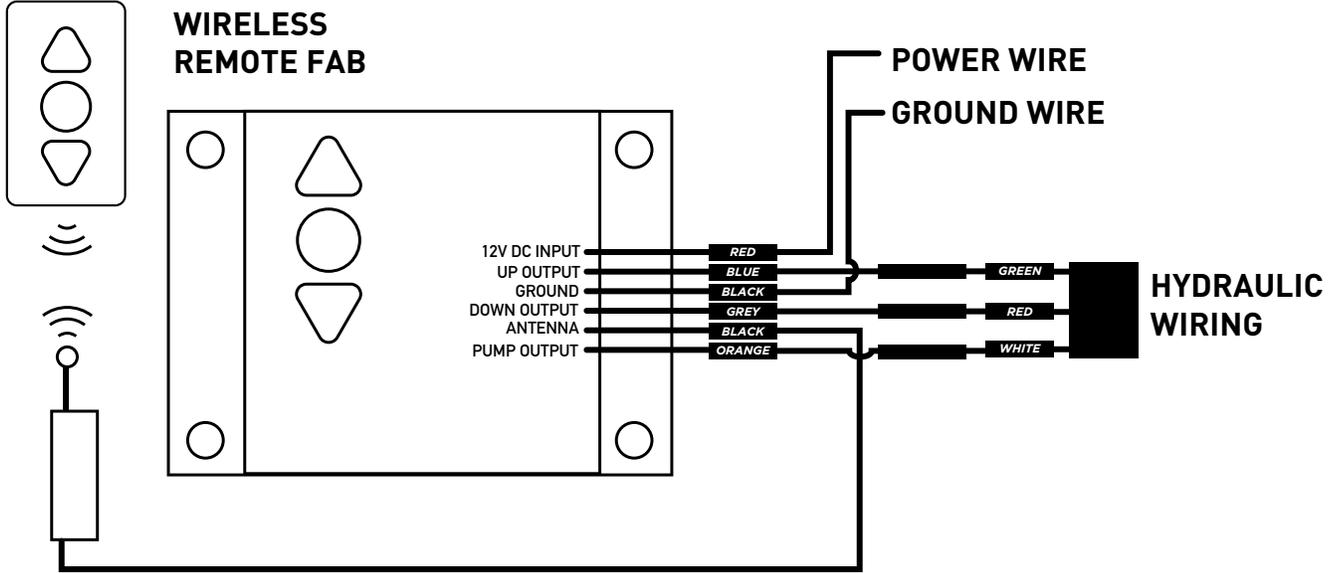
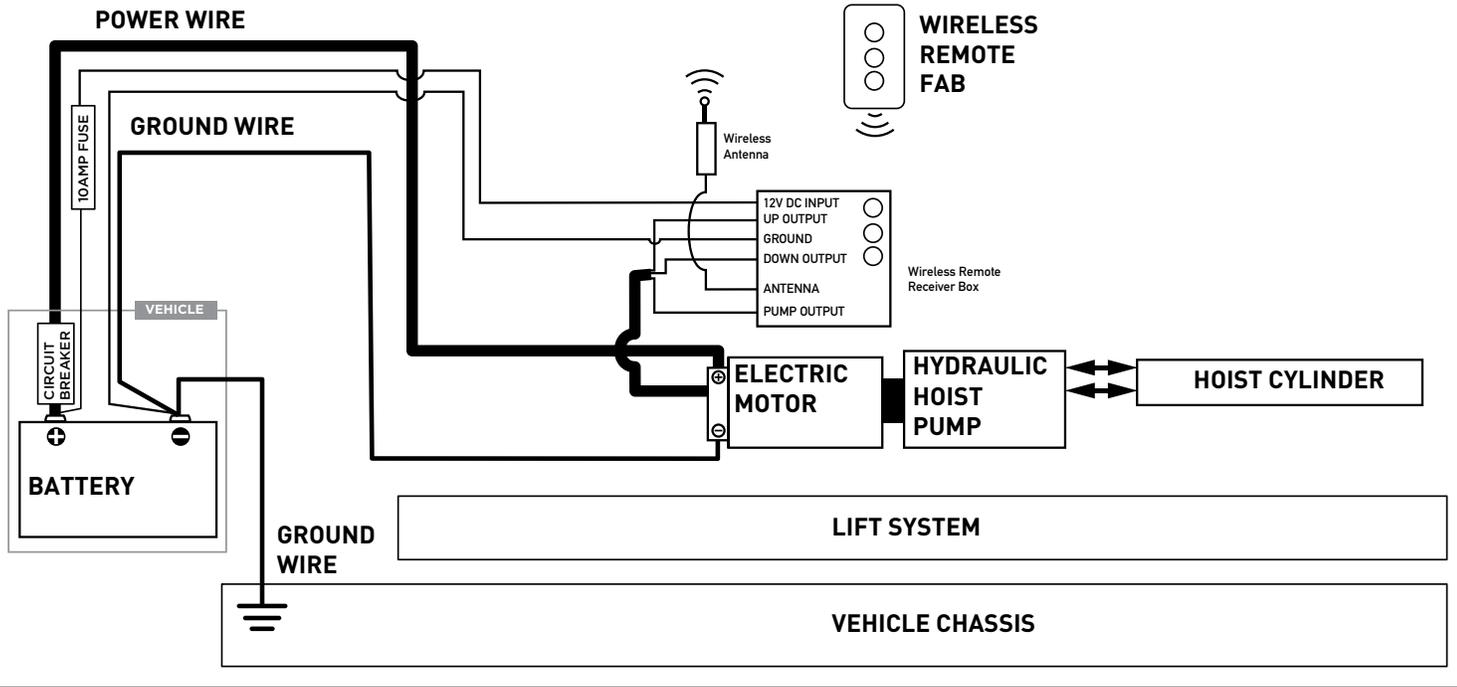


FIGURE 4.B

## SYSTEM DIAGRAM WITH WIRELESS PENDANT



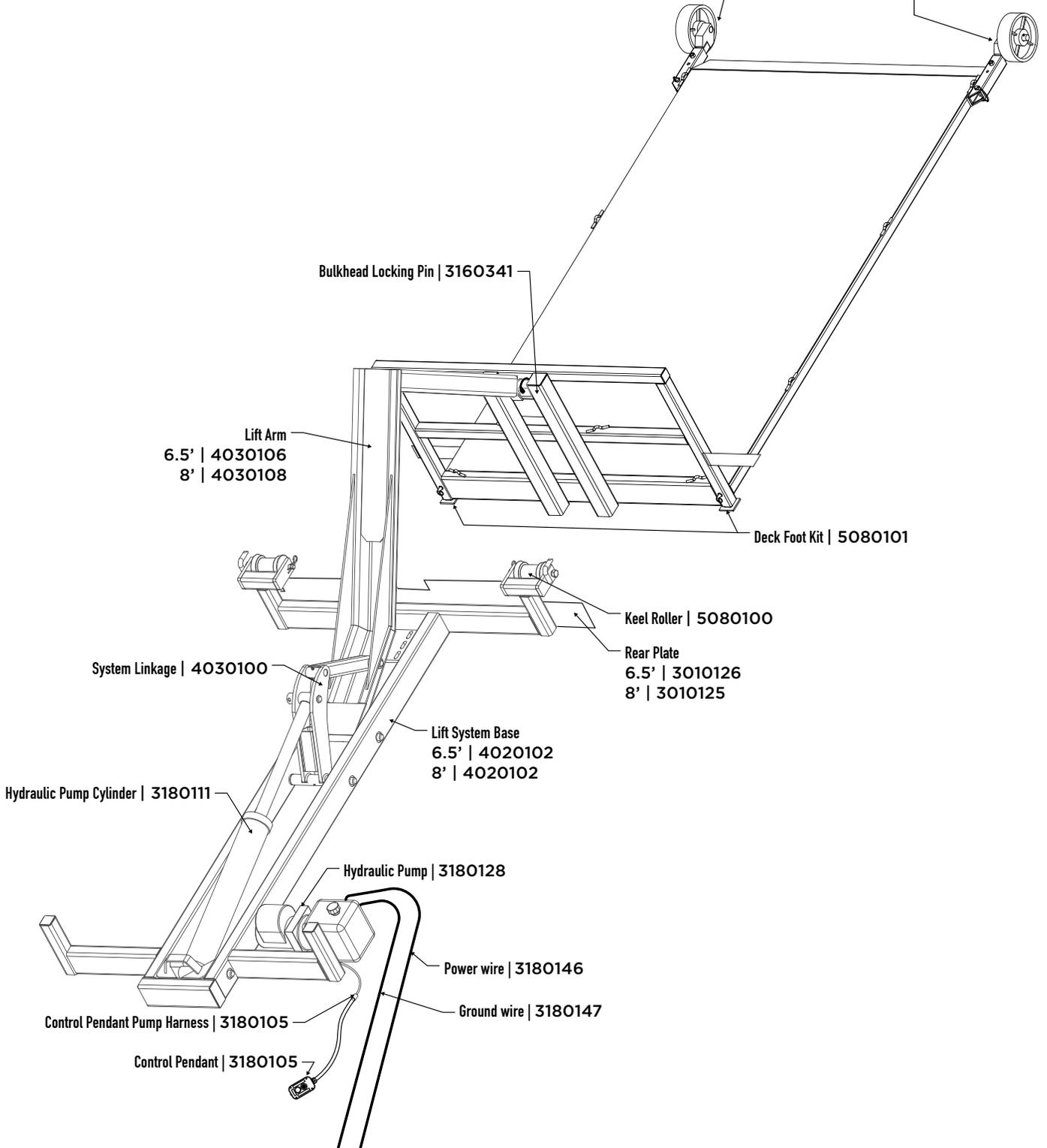
Part Number	Part Name
3180105	Control Pendant
3180120	Wireless Remote Control Pendant & Kit
3180106	Control Pendant Pump Harness
3180101	Solenoid
3180102	Moncoil - 10V DC
3180103	2 Way Valve
3180104	4 Way Valve
3190123	Circuit Breaker
3190145	Battery / Circuit Wire
3180146	Power Wire
3180147	Ground Wire
3180128	Hydraulic Pump w/ Control Pendant
5080104	6.5' Lift System Hydraulic Hose Kit
5080105	8' Lift System Hydraulic Hose Kit
3180130	Hydraulic Pump Motor 12V - DC
3170834	Hydraulic Pump Reservoir
3170793	Hydraulic Pump Breather Cap
3180111	Hydraulic Pump Cylinder
4030100	System Linkage
5080102	6.5' Lift System Bed/Box Mounting Kit
5080103	8.0' Lift System Bed/Box Mounting Kit
4030106	6.5' Lift Arm
4030108	8.0' Lift Arm
4020101	6.5' Base
4020102	8.0' Base
5080100	Keel Roller w/ Pin & Shaft Kit
3170100	Keel Roller
3010126	6.5' System Rear Plate
3010125	8' System Rear Plate
4070196	17.625" Standard Wheel Bracket Assembly Driver-Side

Part Number	Part Name
4070197	17.625" Standard Wheel Bracket Bar Passenger-Side
4070105	17.625" Standard Wheel Bracket Bar Driver-Side
4070104	17.625" Standard Wheel Bracket Assembly Passenger-Side
4070189	30.625" Extended Wheel Bracket Assembly Driver-Side
4070188	30.625" Extended Wheel Bracket Assembly Passenger-Side
4070193	30.625" Extended Wheel Bracket Bar Driver-Side
4070192	30.625" Extended Wheel Bracket Bar Passenger-Side
4070191	35.125" Extra Long Wheel Bracket Assembly Driver-Side
4070190	35.125" Extra Long Wheel Bracket Assembly Passenger-Side
4070195	35.125" Extra Long Wheel Bracket Bar Driver-Side
4070194	35.125" Extra Long Wheel Bracket Bar Passenger-Side
4070167	40.25" Universal Wheel Bracket Assembly
4070187	40.25" Universal Wheel Bracket Assembly
3160341	Bulkhead / Wheel Bar Locking Pin
3000101	Roller Wheel w/Roller Bearing
4210126	3-Wheel Vehicle Wheel Stop
5001000	Universal Wheel Chock
5080101	Deck Foot Kit
3160106	Deck Foot Locking Pin
5030110	10" Standard Deck Extension
5030111	18" Extended Deck Extension
5080110	76" Wide SportDeck™ Extension w/ Wheels

## PARTS DIAGRAM

Wheel Bracket Assembly  
(Passenger-side)  
17.625" | 4070197  
30.625" | 4070189  
35.125" | 4070191  
40.25" | 4070167

Wheel Bracket Assembly  
(Driver-side)  
17.625" | 4070197  
30.625" | 4070188  
35.125" | 4070190  
40.25" | 4070187



PROBLEM OR ISSUE	REASON FOR PROBLEM OR ISSUE	SOLUTION OR FIX
Deck will not load or unload	<ul style="list-style-type: none"> <li>— Bad wire within the control pendant</li> <li>— 12V DC supply disconnected</li> <li>— Lack of oil in hydraulic tank</li> <li>— If deck will not only load or not only unload then indicates a bad coil</li> <li>— If the pump is not running and no noise is happening then bad solenoid</li> <li>— Exceeded payload capacity of lift system</li> <li>— Foreign obstruction between lift arm, deck or the base.</li> <li>— Broken or cut hydraulic line to C1 or C2 ports</li> </ul>	<ul style="list-style-type: none"> <li>— Trace the damaged wire from the pendant and fix damaged wire(s)</li> <li>— Check fuse(s), if bad replace fuse(s) and reconnect battery.</li> <li>— Fill the hydraulic tank and check for leaks or clogged breathers.</li> <li>— Replace coil</li> <li>— Replace the Solenoid</li> <li>— Remove part of the payload from the loaded deck</li> <li>— Remove any foreign object</li> <li>— Fix or repair hydraulic line leaks or breaks</li> </ul>
Fluid leaks from hydraulic tank	<ul style="list-style-type: none"> <li>— Clogged breather cap</li> <li>— Valve stuck part way "IN"</li> <li>— Load raises lift arm cylinder faster than pump can receive oil to the tank</li> </ul>	<ul style="list-style-type: none"> <li>— Clean breather cap</li> <li>— Take the valve out and look for foreign objects, look at the coils</li> <li>— Load too heavy</li> </ul>
Deck will not respond to control pendant	<ul style="list-style-type: none"> <li>— Control Pendant disconnected</li> <li>— If deck will operate in one direction (loading or unloading) then bad coil</li> <li>— If the pump is not running nor make any noise then indicates a non-functioning solenoid</li> <li>— 12V DC power is disconnected</li> <li>— Weak or missing battery</li> </ul>	<ul style="list-style-type: none"> <li>— Reconnect Control Pendant</li> <li>— Replace coil</li> <li>— Replace Solenoid</li> <li>— Reconnect 12VDC supply. Check fuses, if bad replace fuses.</li> <li>— Test battery with volt meter if bad replace the batteries. Review vehicle battery requirements have been installed</li> </ul>
System is sluggish or deck will not return to bed	<ul style="list-style-type: none"> <li>— Winter or Cold Weather</li> <li>— Check pendant connection; if pendant is loose then it may cause intermittent pump operation</li> </ul>	<ul style="list-style-type: none"> <li>— Press &amp; Hold the button and let the pump run and will warm fluid up and start working as normal</li> <li>— Unplug and plug the control pendant in to make sure it is fully connected</li> </ul>



Serviced by:

**Deist**<sup>™</sup>  
INDUSTRIES, INC

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