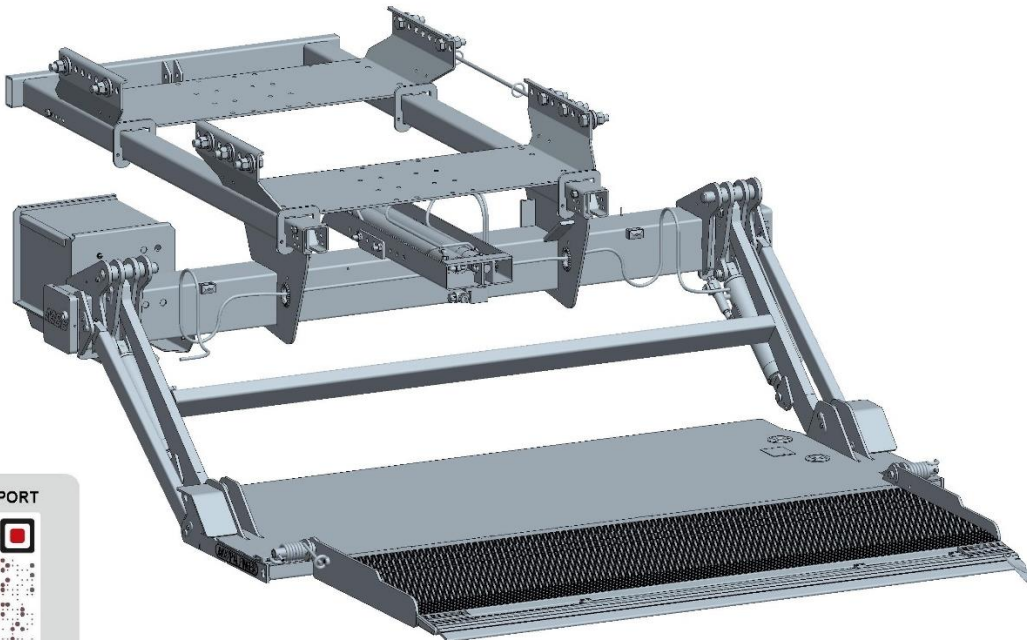


INTERLIFT



INSTALLATION MANUAL & CHECK OFF SHEET

**ILFP 30, 3000 lbs. Capacity
ILFP 40, 4000 lbs. Capacity**



ILFP 30/40 Installation Manual
Document Part Number: 90-1213-200
ECN-M1804, Rev. 2.1, 04-11-25
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If you received this product with damaged or missing parts,
contact INTERLIFT Liftgates at (888)-774-5844

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Company Information:**Company Name:** _____**Advisor Name:** _____**Vehicle Year Make & Model:** _____**Liftgate Information:****Liftgate Serial Number:** _____**Liftgate Model Number:** _____**Date of Purchase:** _____**Date of Installation:** _____

Manual Updates

Revision	Description
v2.0	<ul style="list-style-type: none"> • Changed the logos, from Palfinger to Interlift
V2.1	<ul style="list-style-type: none"> • Added QR code decal

Recommended Tools For Installation

Metric Wrench Set	Basic Screwdrivers	Pliers	Wire Crimp Pliers
Test Light	Snap Ring Pliers	Hammer	Metric Allen Set 1.5mm-10mm
½" Impact & Sockets	Sm. Metric Socket Set	Assorted Drill Bits	Floor Jack or Equiv.
Sm. To Med. Bottle Jack	Forklift or O/H Crane	Hand Held Grinder	Paint Gun
Pry Bar	3/8 Drill Motor	Grease Gun	Heat Gun or Equiv.
Min. 250 Amp Welder	Cutting Torch or Equiv.		

1 Safety Information

This manual follows the Guidelines set forth in “ANSI Z535.4-2007” for alerting you to possible hazards and their potential severity.

DANGER

! **DANGER** indicates an imminently hazardous situation which, if not avoided, **will result** in death or serious injury.

WARNING

! **WARNING** indicates potentially hazardous situation which, if not avoided, **could result** in death or serious injury.

CAUTION

! **CAUTION** indicates a potentially hazardous situation which, if not avoided, **may result** in minor or moderate injury.

CAUTION




CAUTION without the safety alert symbol is used to address practices not related to personal injury.

(In this manual it is used to alert the user to potentially hazardous situation which, if not avoided, may result in property damage.)

NOTICE

NOTICE without the safety alert symbol is used to address practices not related to personal injury. *(In this manual it is to alert you to special instructions, steps, or procedures.)*

2 Important Notes:

1. **Review lift gate invoice and packing slip to ensure delivery of correct gate and complete delivery of accessories and optional equipment**
2. **Read Manual completely before beginning any work**
3. Mount fixture may be ordered separately
4. Refer to your truck/trailer manufacturer's instructions before adding any auxiliary equipment.
5. Pay Special attention to items marked with this symbol: 
6. All welding must be performed by qualified personnel per AWS standards
7. Always ground as close as possible to the welding point to prevent arcing through moving parts
8. Contact INTERLIFT Liftgates for Special Installations not covered in this Installation Manual
9.  Do not paint cylinder shafts or nylon rollers (Use non-chlorinated brake cleaner to remove over spray)
10.  Final Check-Off-Sheet at the end of this manual **MUST** be filled out and kept in your records for future reference and warranty consideration
11. Refer to owner's manual for lubrication, preventive maintenance, troubleshooting & repairs.

Important Dimensions: (Refer to line drawing on following pages)

- 1) **BED HEIGHT** Bed Height Ranges: Max=Unloaded / Min=Loaded Truck
 - Measure from top of body floor to ground. Vehicle must be on flat level ground
- 2) **MOUNT FRAME CLEARANCE**
 - Measure from **BACK** of truck/trailer to spring/tire or air suspension components that can interfere with the liftgate installation
- 3) **REAR SILL HEIGHT and DESIGN**
 - Measure top of floor to bottom of buck plate and verify design regarding to Figure 1.



Important!!!



The basic rule for installing an ILFP INTERLIFT Liftgate is to **MOUNT THE FRAME AS HIGH AS POSSIBLE**
to achieve **MAXIMUM GROUND CLEARANCE** and **MINIMIZE THE "F" DIMENSION.**

⚠ WARNING

BED HEIGHT RANGE DEFINES THE LIMITS WITHIN THE LIFTGATE WILL OPERATE PROPERLEY.

- **Minimum bed height dimension is measured at MAXIMUM LOADED CONDITION**
- **Maximum bed height dimension is measured at UNLOADED CONDITION, AIR BAGS INFLATED**

⚠ WARNING

A gate installed on an unloaded vehicle that is at or near the minimum required bed height may be damaged by ground contact or may not operate properly when the vehicle is loaded.

Call tech support before starting the installation if you have any questions or concerns
on mounting dimensions → 888-774-5844

2.1 General Bed Height Ranges for ILFP liftgates.

- **MINIMUM BED HEIGHT is measured with the truck/trailer loaded to MAX GVW**
- **MAXIMUM BED HEIGHT is measured with the truck/trailer unloaded**

Minimum Bed height: 35"

Maximum Bed height: 53"

NOTICE

A chassis dimension sheet as shown on page 10 was completed prior to the lift gate order. An installation drawing was generated from that dimension sheet in the format shown on page 12 and is supplied with this installation package. Do not begin the installation without the INTERLIFT Liftgates supplied installation drawing for appropriate truck/trailer.

3 Chassis Dimension Sheets



Trailer Chassis Dimension Sheet

Customer Information

Quote#/SO#: _____
 Company: _____
 Phone: _____
 Email: _____ @ _____

Liftgates Information:

Model: _____

Capacity: _____

Platform Size: _____

Platform Material: _____

Trailer Information

Trailer Specifications:	
Manufacturer: (ex. Utility)	
GVWR: (ex. 68,000 lbs)	
Length: (ex. 53ft)	
Width: (96", 102")	

Type of Body (check applicable)	<input checked="" type="checkbox"/>
Van	
Flatbed	
Reefer	
Other (specify) _____	

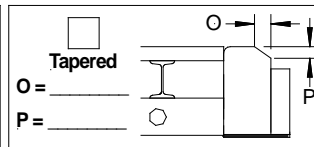
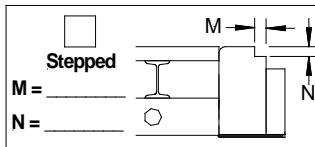
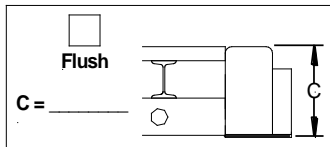
Type of Rear Door (check applicable)	<input checked="" type="checkbox"/>
Flip-Up	
Roll-Up	
Swing	
Other (specify) _____	

Trailer Dimensions

A = Bedheight: Top of trailer floor to level ground (with airbags up): _____

B = Top of floor to bottom of trailer cross member: _____

C = Rear sill height (Top of floor to bottom of buck plate): If Stepped sill complete M,N; If Tapered sill complete O, P.



D = Crossmember height: _____

E = Tire to end of vehicle body: _____

F = Bogie to end of vehicle body: _____ Sliding Suspension? Yes _____ No _____
 If Yes complete G, H, I, K, and L dimensions

G = Inside horizontal width of sliding suspension angles: _____

H = Diameter of sliding suspension holes: _____

I = Hole spacing: _____

J = Bottom of crossmembers to bottom of sliding ramp box, if applicable: _____

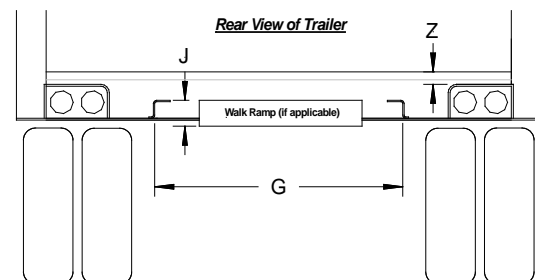
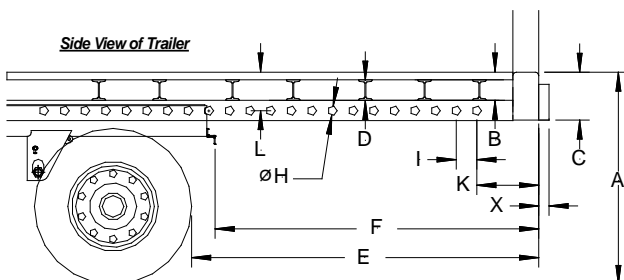
K = Rear sill face to first slider hole: _____

L = Top of floor, where liftgate platform will meet floor, to the center of the trailer slider holes: _____

X = Eyebrow depth: _____

Z = Top of floor, where the liftgate platform will meet the top of the eyebrow: _____

Notes:



90-9813-002_b

Figure 1 Trailer dimension sheet



Truck Chassis Dimension Sheet

Customer Information

Quote#/SO#: _____
 Company: _____
 Phone: _____
 Email: _____ @ _____

Liftgates Information:

Model _____
 Capacity _____
 Platform Size _____
 Platform Material _____

Truck Information

Truck Specifications:	
Manufacturer: (ex. Hino)	
GVWR: (ex. 68,000 lbs)	
Length: (ex. 53ft)	
Width: (96", 102")	

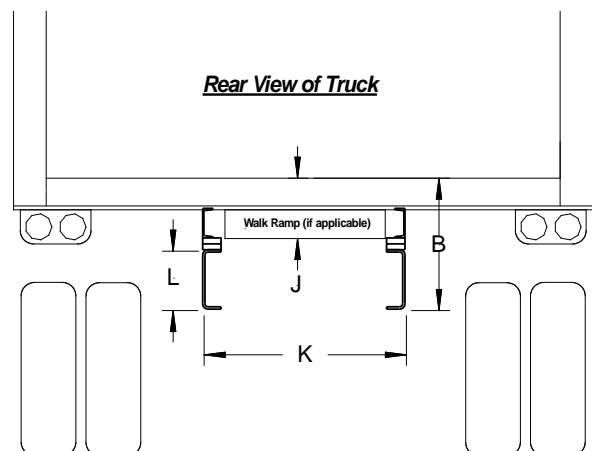
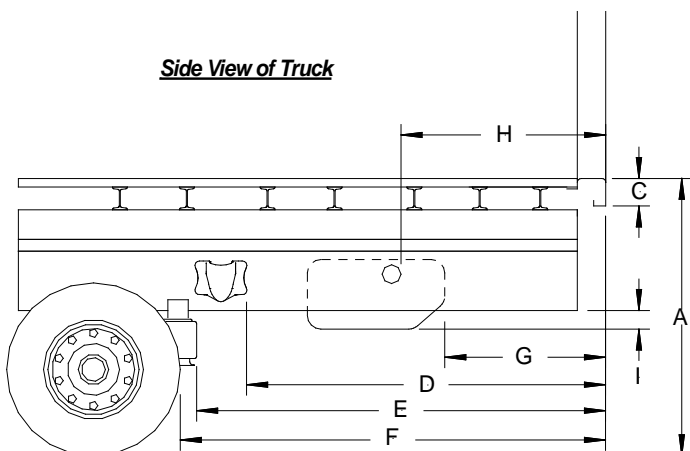
Type of Body (check applicable)	✓
Van	
Flatbed	
Reefer	
Other (specify) _____	

Type of Rear Door (check applicable)	✓
Flip-Up	
Roll-Up	
Swing	
Other (specify) _____	

Truck Dimensions

A = Bedheight:..... Loaded Bedheight:.....
 B = Top of floor to bottom of frame:.....
 C = Rear sill height:.....
 D = Spring hanger to end of body (if applicable):.....
 E = Air bag suspension to end of body (if applicable):.....
 F = Tire to end of vehicle body:.....
 G = Gas tank to end of body (if applicable):.....
 H = Fuel filler hole to end of body (if applicable):.....
 I = Bottom of frame to bottom of gas tank (if applicable):.....
 J = Top of floor to bottom of sliding walk ramp (if applicable):.....
 K = Frame Width: Width of chassis frame:.....
 L = Frame Height: Height of chassis frame:.....

Notes:



90-9813-003_b

Figure 2 Truck dimension sheet

4 Installation Dimensions

-Installation Dimension sheets are supplied with each individual ILFP, as there are too many different setup combinations for a generic installation drawing. When ordering a liftgate, INTERLIFT Liftgates supplies a drawing based upon the Chassis dimension sheet (Figure 1 and Figure 2) supplied by the installing company

IMPORTANT:

Prior to beginning the installation review installation drawing supplied with your lift gate. It will be in the format of the example below (Fig. 3) with mounting dimensions specific to the truck/trailer.

Verify that the subject chassis matches all dimensions shown on the installation drawing prior to installation of the gate. If lift gate and/or chassis do not match the dimensions on the drawing notify INTERLIFT Liftgates before attempting to install the gate.

NOTICE

Do not begin installation if truck/trailer does not match INTERLIFT Liftgates supplied drawing!

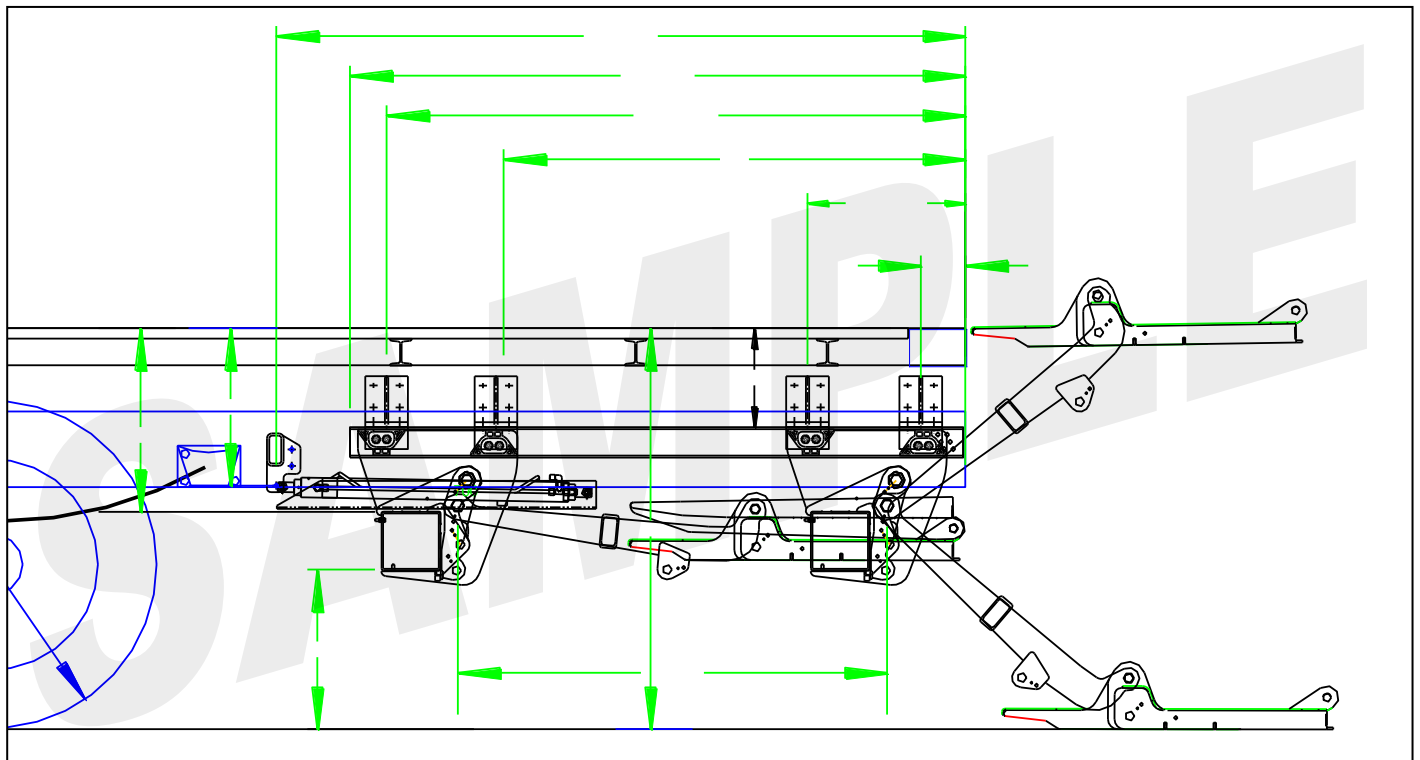


Figure 3 Installation Drawing - supplied by INTERLIFT Liftgates' engineering department

4.1 Chassis and Body Preparation

4.1.1 Mount frame clearance

The ILFP mount frame clearance will vary based on chassis/trailer bed height, lift gate platform size and lift arm length. (Refer to the specific installation drawing for mount frame requirement)

NOTICE

- Determine the correct mounting clearance according to your specific lift and chassis.
- With long overhangs it is even more important to maintain Max ground clearance.
 - GROUND CLEARANCE = BOTTOM OF LIFTGATE FRAME TO GROUND
- Rear body 'U' bolts and chassis cross member rivets may have to be removed to accommodate installation. Removed attachments must be replaced with alternatives approved by chassis and body manufacturers.

IMPORTANT (Truck Installation):

Prior to completion of the lift gate installation, after the lift gate mount plates are welded to the chassis, the body long rails must be connected to truck frame with welded flat bars or shear plates to prevent the lift gate from moving the body forward on the chassis.

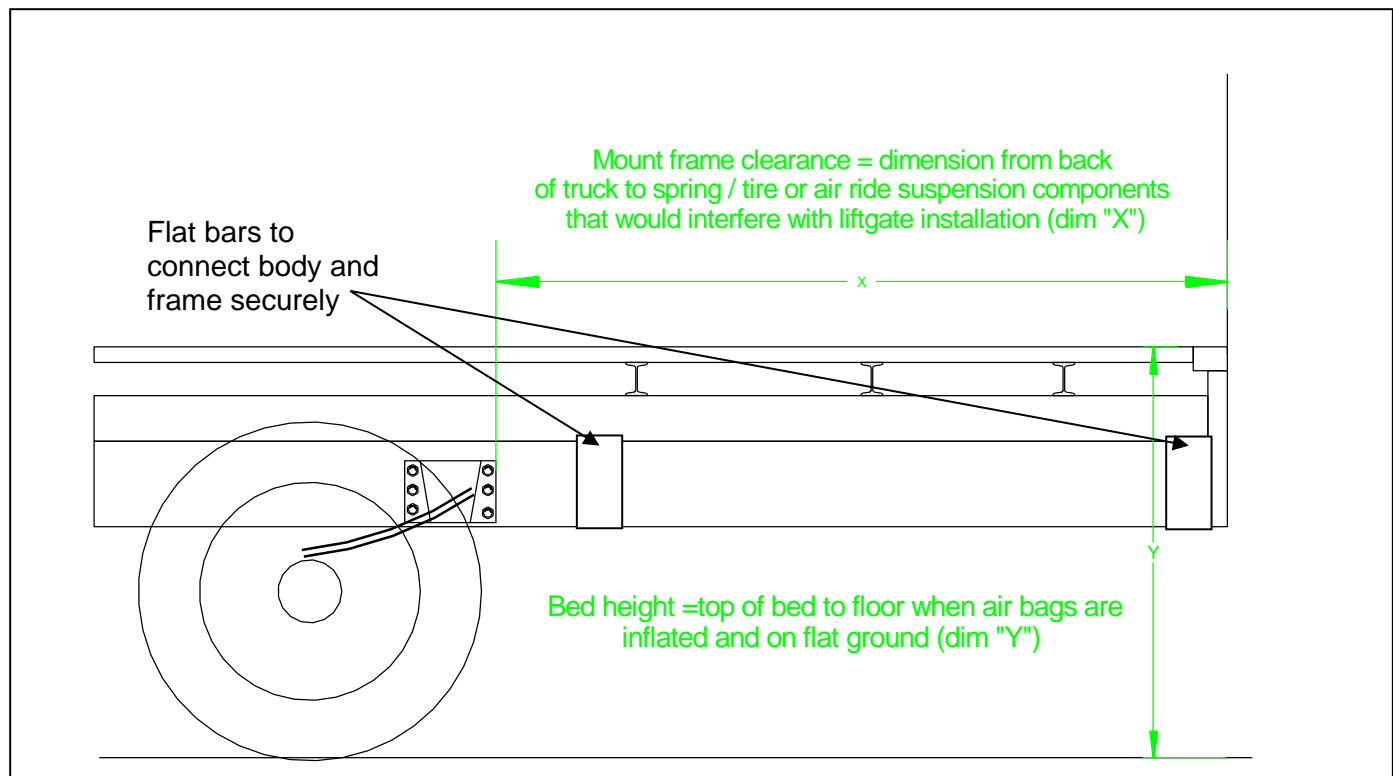


Figure 4 Mounting clearance

4.1.2 Rear sill preparation

To ensure that the gate reaches the body/trailer floor, the rear sill of the truck/trailer may have to be cut.

NOTICE

- If sill is **4" or less** → No sill cut out needed
- If no cut out height is determined in drawing, cut out for best fit. **Keep at least a minimum of 4" of sill.**

CAUTION

- Reinforce every cut out of the sill to regain sill strength, required by truck/trailer OEM.

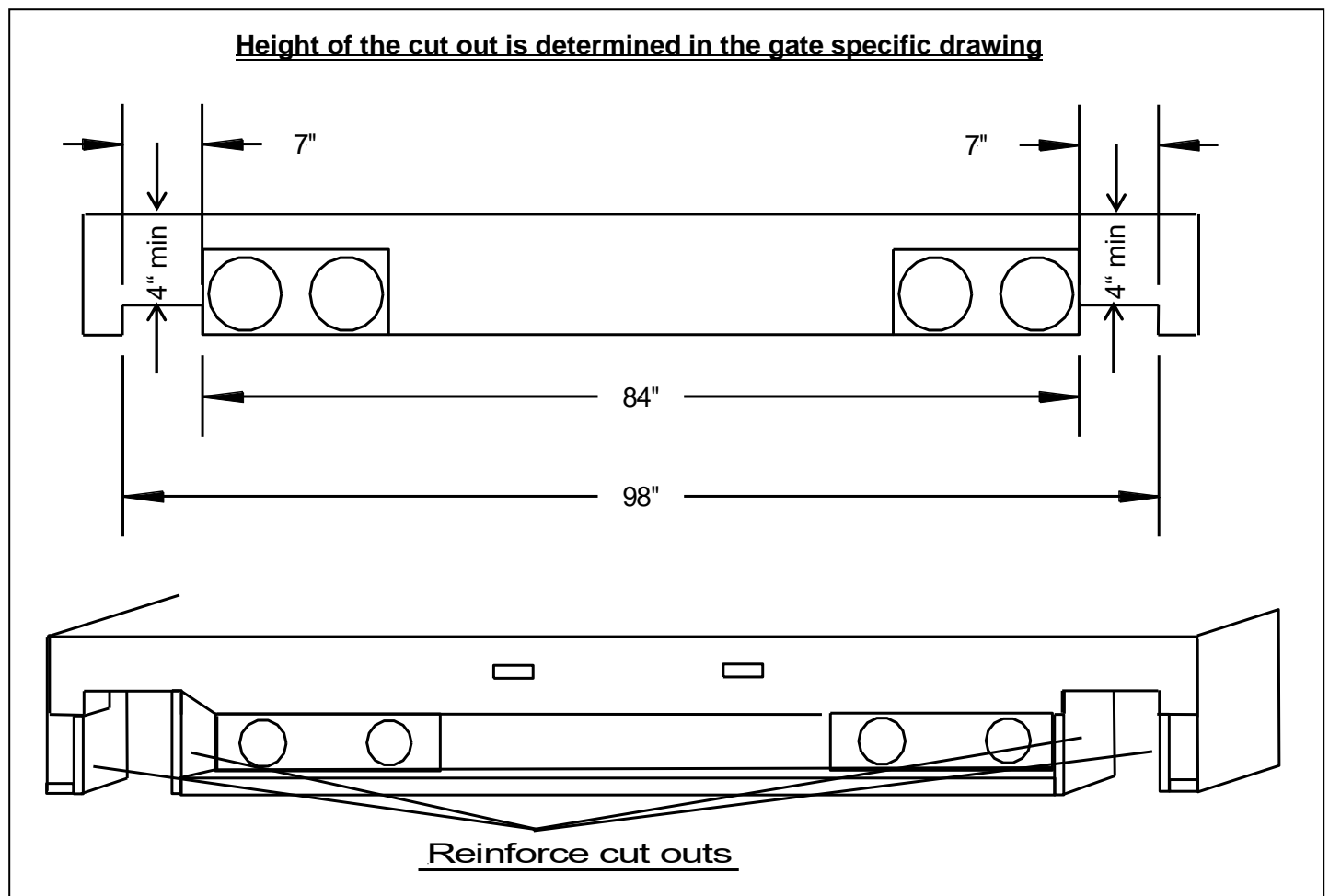


Figure 5 Sill cut-out dimensions - rear view

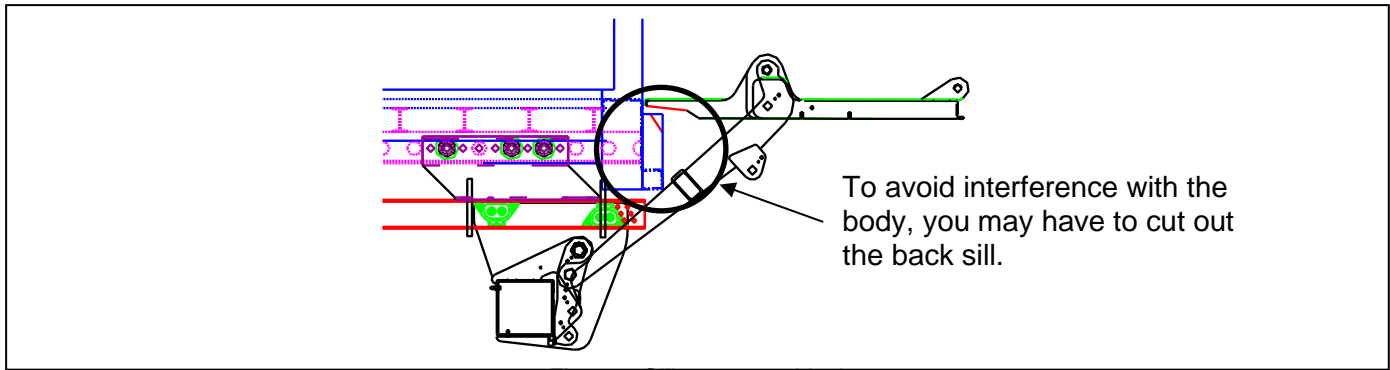


Figure 6 Sill cut-out – sideview

CAUTION

- Reinforce all rear sill cut-outs to maintain sill integrity.

NOTICE

- Some trailers are equipped with flat-bar reinforcements around the tail lights (eyebrows). In some cases these reinforcements will have to be trimmed or notched to allow the platform to reach bed level. The trimming and/or notching should be done after the gate is installed by raising the gate very carefully until the platform just contacts the reinforcements. At this point you can determine the amount of trimming or notching required. This keeps trimming to a minimum.
- On truck bodies or trailers with swing doors the forward edge of the platform may have to be trimmed or notched to accommodate door lock rods or lock lugs. After gate installation raise the gate very carefully until the platform just contacts the lock rods or lugs, determine the amount of notching or trimming required. This process keeps the trimming or notching to a minimum.

IMPORTANT!!!

- A proper preparation of the truck/trailer is essential for a safe, effective and efficient installation process and assures proper function of the lift gate without damage to truck/trailer or lift gate.

⚠ WARNING

Never work under mount frame or platform without safety supports

NOTICE

Disconnect the truck batteries prior performing any welding.

5 Gate Installation

5.1 Truck Installation



WARNING

Never work under mount frame or platform without safety supports

5.1.1 Slide rail and Push-Pull mount bracket installation

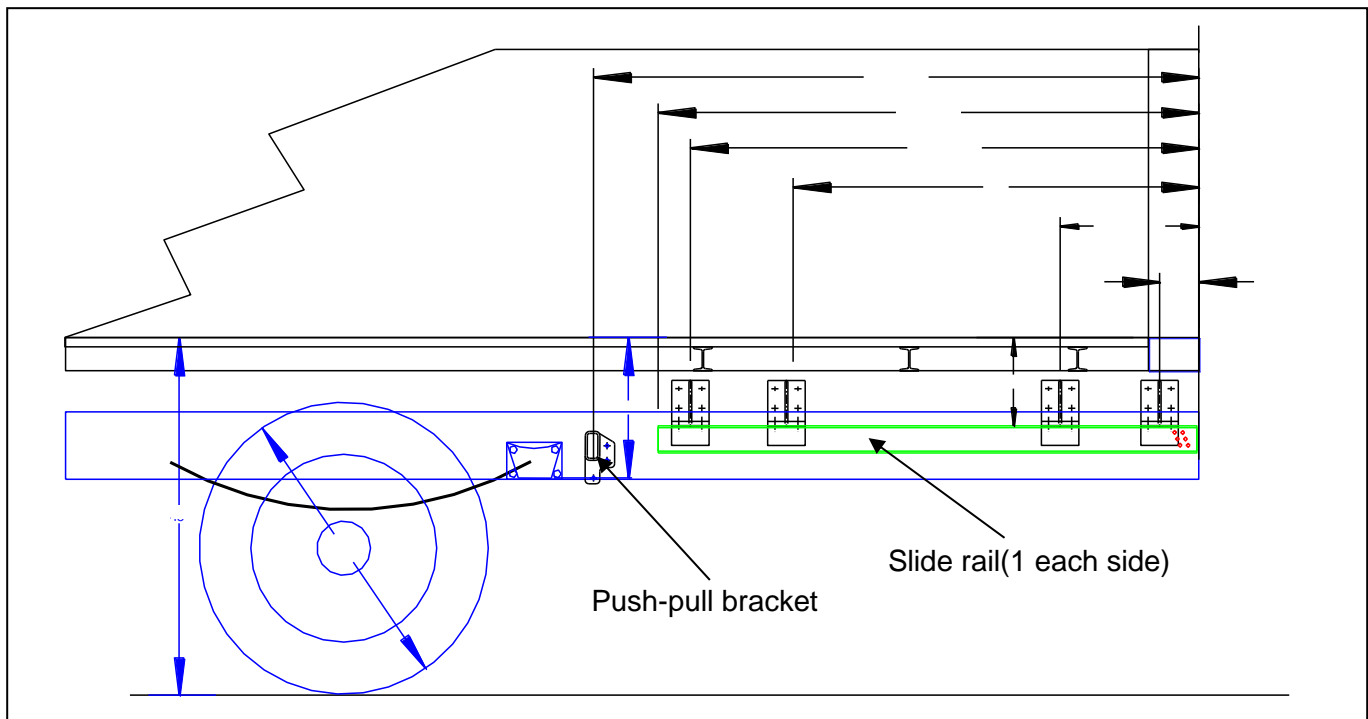


Figure 7 Slide rail and push-pull installation

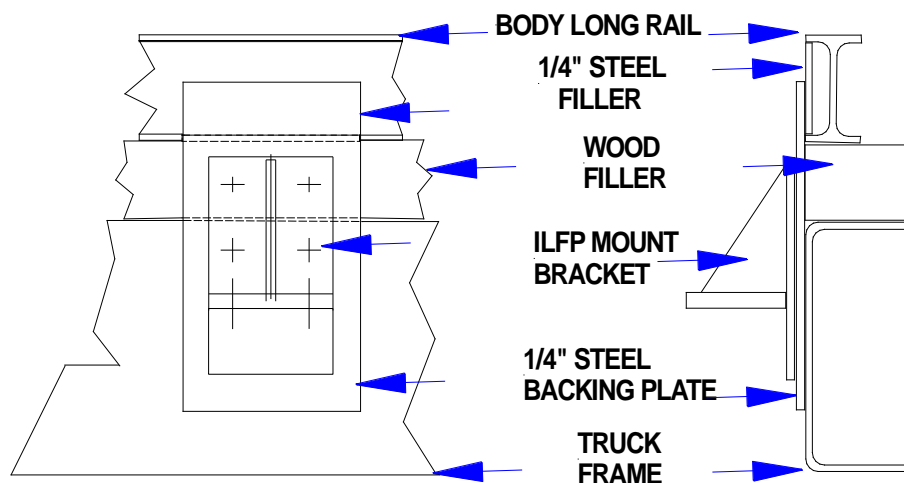


Figure 8 Mount bracket installation details

5.1.1.1 Installation without slide rail mounting fixture

Make sure the specific install drawing supplied with the lift gate matches the truck and gate to be installed

- 1) Locate the 8 mount brackets on the chassis as indicated by the installation drawing. The brackets must be square to and level with the floor of the body at the precise height indicated on the installation drawing.

NOTICE

Each mount bracket requires a minimum of 8" of ¼" weld. If the mount bracket location is over the wood filler it will be necessary to

install a ¼" steel backing plate at least 1" wider than the mount bracket and long enough to weld to the body long sill and truck frame. The steel backing plate must be attached to the chassis and body with at least 8" of ¼" weld and the mount bracket welded to the backing plate with 8" of ¼" weld. These plates if installed may serve as the required sheer plates tying the body to the chassis frame.

- 2) If ¼" plates are required install them at the previously determined locations and permanently weld in place with a minimum of 8" of ¼" weld.
- 3) Locate the liftgate mount brackets precisely as indicated on the installation drawing. Stitch weld each bracket to the chassis with a minimum of 2" of ¼" weld across the top of each bracket.

NOTICE

Make sure the brackets are precisely located per the installation drawing and are straight and level.

- 4) Carefully lift the gate, (push-pull cylinders retracted) and located front to rear per the installation drawing until the top of the slider rail are against the horizontal legs of all 8 mount brackets and located.

CAUTION

While lifting the gate into the mounting position make sure it does not contact chassis components such as frame cross members, wiring, fluid or air lines. Chassis component such as cross members may have to be modified or removed to accommodate the push-pull cylinders and bracket. Any modifications must be done in accordance with chassis manufacturers recommendations.

- 5) Locate the push-pull cylinder bracket between the frame rails in lateral alignment with the push-pull cylinder. Be aware that the cylinder attachment will be off the centerline of the chassis by approximately 1.5". In addition the push-pull cylinder bracket must be mounted high enough to hold the end of the push-pull cylinder assembly 1" off the tray.
- 6) When the proper position for the push pull cylinder bracket is determined it should be stitch welded into place using 2 ea. ¼" welds, 2" long on each end of the bracket.

5.1.1.2 Installation with slide rail mounting fixture

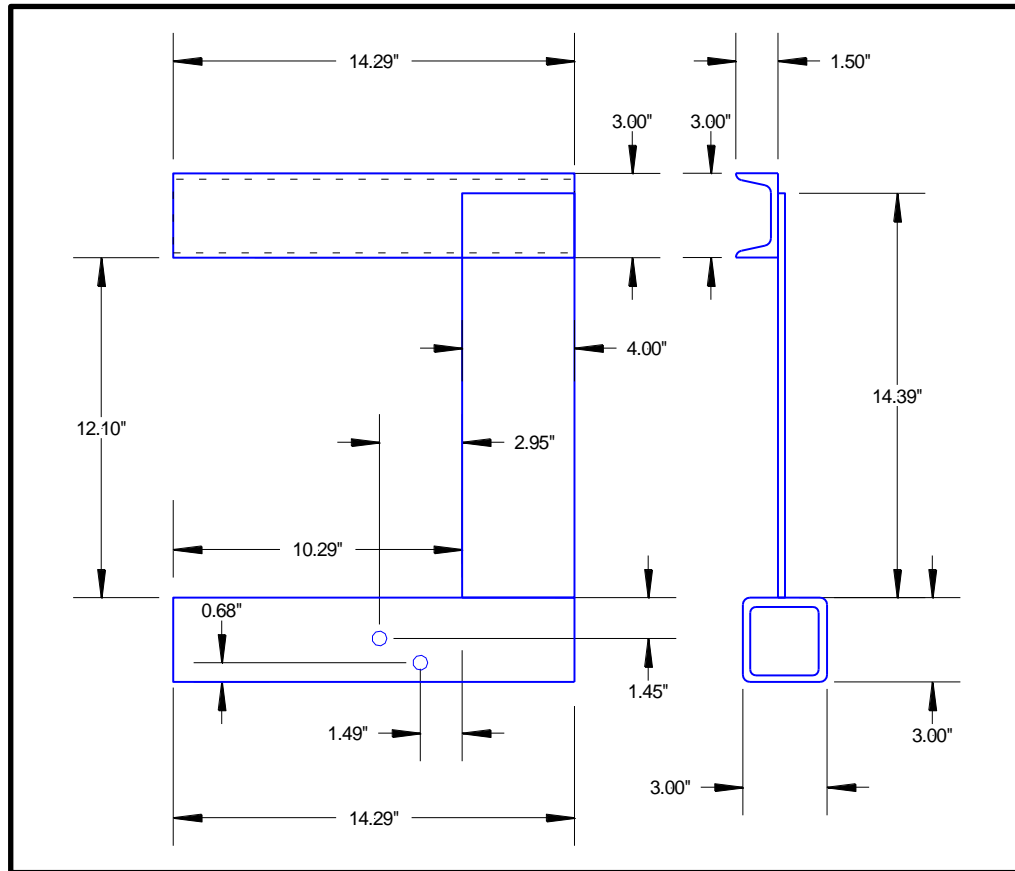


Figure 9 ILFP slide rail mounting fixture

- 1) Build two (2) mounting fixtures like shown in Figure 9. Use 3"x3"x.25" tubing. Assure that the holes are in EXACT location as otherwise the slide rails will be off and the gate might not work properly.
- 2) Slide the two 3" tubes into the slide rail and locate the correct position with the 3/8" stop bolts.
- 3) Connect the slide rails to the mounting fixture by using (2) 3/8" bolts and nuts.
- 4) Slide the assembly over the rear sill of the truck and clamp down the mounting fixture so that the slide rails facing straight forward towards the cabin.
- 5) Tag weld the rail support angles to the truck body longrail and the gate slide rails
- 6) Check for parallel running slide rails before fully welding the angles to the truck and gate rails

5.1.2 Liftgate attachment

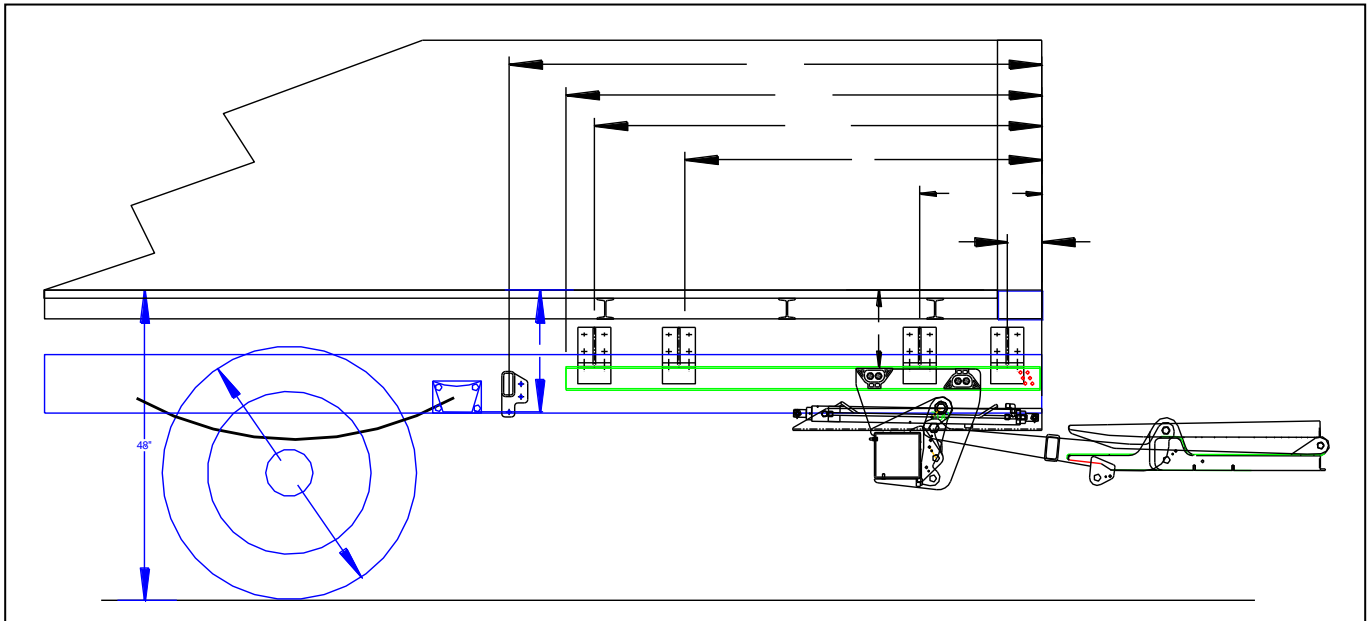


Figure 9 Liftgate installation to previous installed rails

- 1) Weld the push pull bracket according to the drawing in between the frame channels.
- 2) Slide in lift gate assembly and connect pin in front of push-pull cylinder to bracket

5.2 Trailer Installation

5.2.1 Different mounting setups for trailer applications

1) Rapid mount bolt-on

Includes **bolt on sub frame** with lift gate slide rails, frame and platform preinstalled ready to lift up and bolt into **existing sliding tandem rails** on trailer

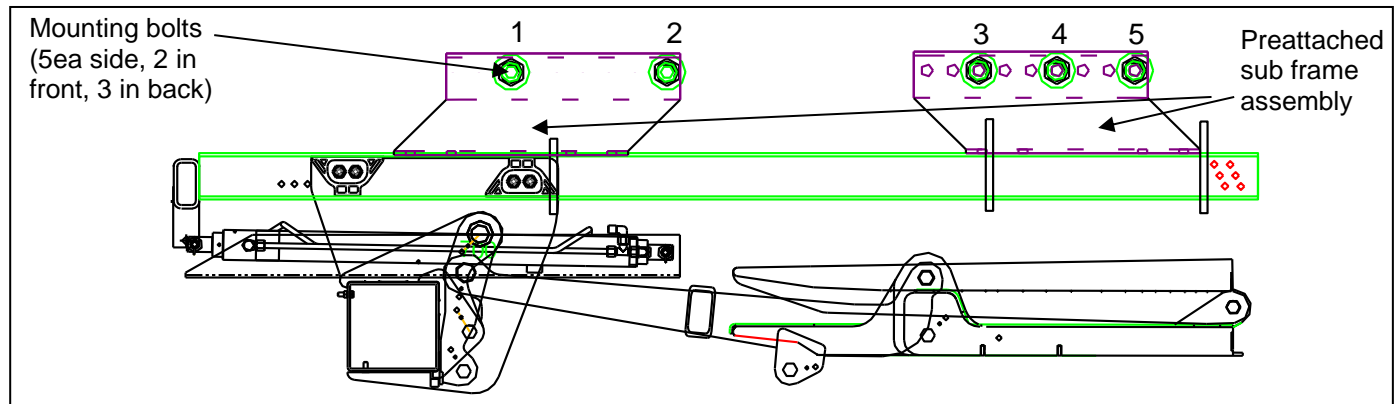


Figure 10 Rapid mount bolt-on setup

2) Quick mount weld-on

Includes **weld-on subframe** with lift gate slide rails, frame and platform preinstalled ready to lift up and weld onto **trailer cross members**

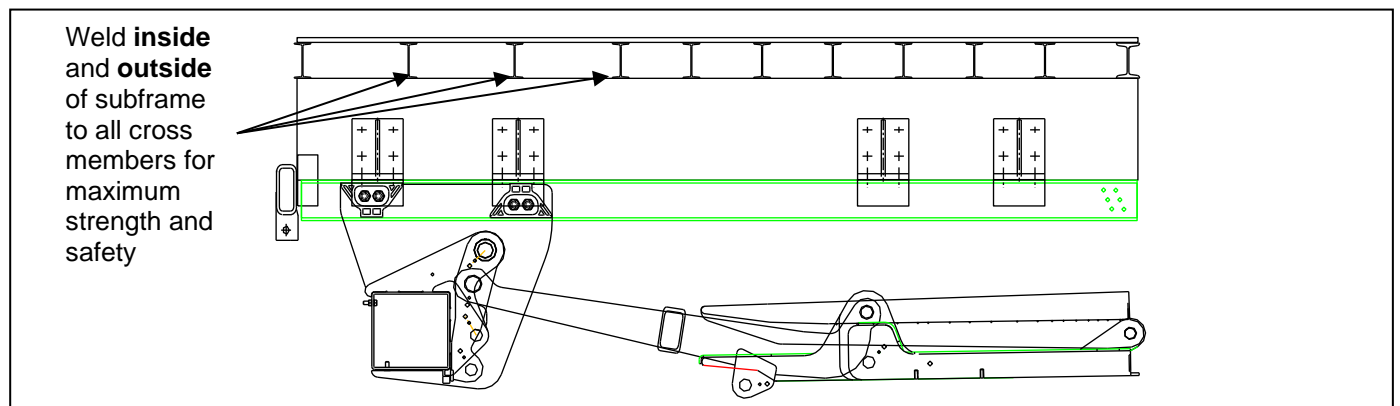


Figure 11 Quick mount weld-on setup

NOTICE

Height of subframe (in each case) is determined by bed height and arm length. INTERLIFT Liftgates chooses the optimal subframe height based on customer supplied truck dimension sheet (see 3 Chassis Dimension Sheets).

- On low bed height trailers, slider rails can get welded directly to trailer cross members. Always make sure to double-check supplied drawing for correct installation setup.

5.3 Liftgate basic power connection and battery cable routing

NOTICE

12 Volt Control power needs to be connected to operate the “Down Function” and release pressure at the lift cylinders to get lift arm in correct location (see Figure 13 and Figure 14)

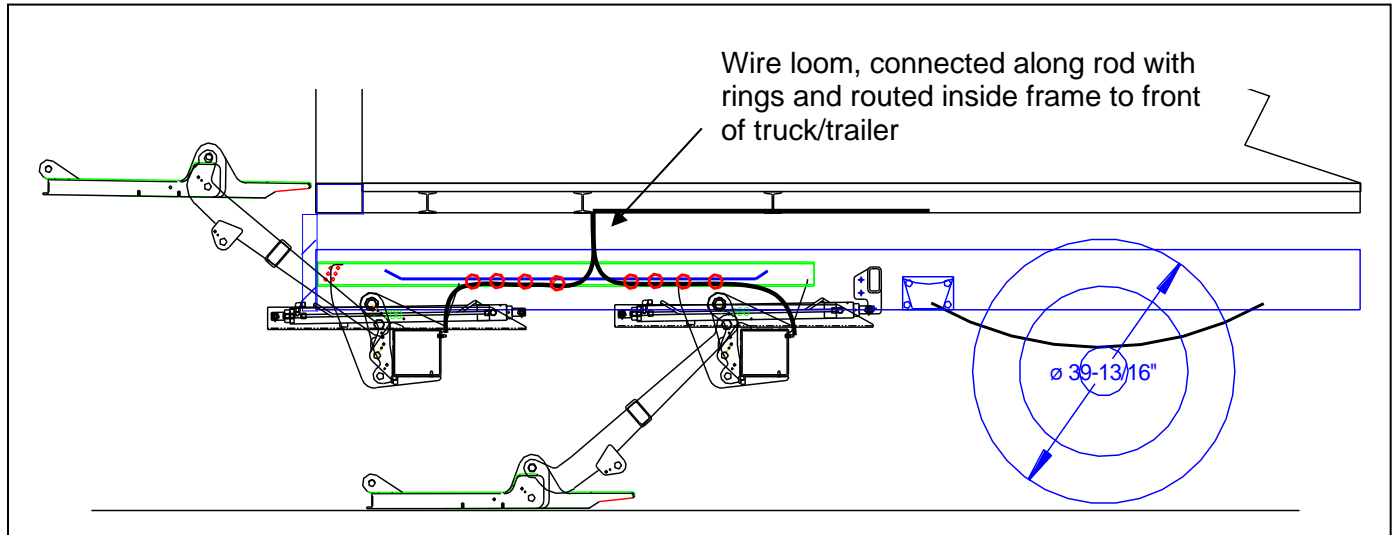


Figure 12 Power cable routing on passenger side

- The positive cable is already prewired along the tube towards the passenger side to join the ground- and control switch cables on curb side.
- The wiring loom is coiled up with the gate delivered. Run the cable loom to inside of the frame like shown in Figure 12.
- Make sure the cable loom gets anchored to the inside at the cross member that is half way of the slide rail, so that the cable loom is the same length when in stored and in operating position.

⚠ WARNING

- Slide gate in and out several times to assure that the wiring loom is not catching any parts and get ripped apart. If wire loom breaks, power cable might shorten out to frame.

NOTICE

- On trailer installations, you will have a trailer battery kit installed on the driver side. In this case you only have the 7-way plug cable in the loom. Route the loom the same way like shown above.

5.4 Removal of transportation safety bolts

When lift gate installed properly and basic functions available, transportation safety bolts have to be removed.

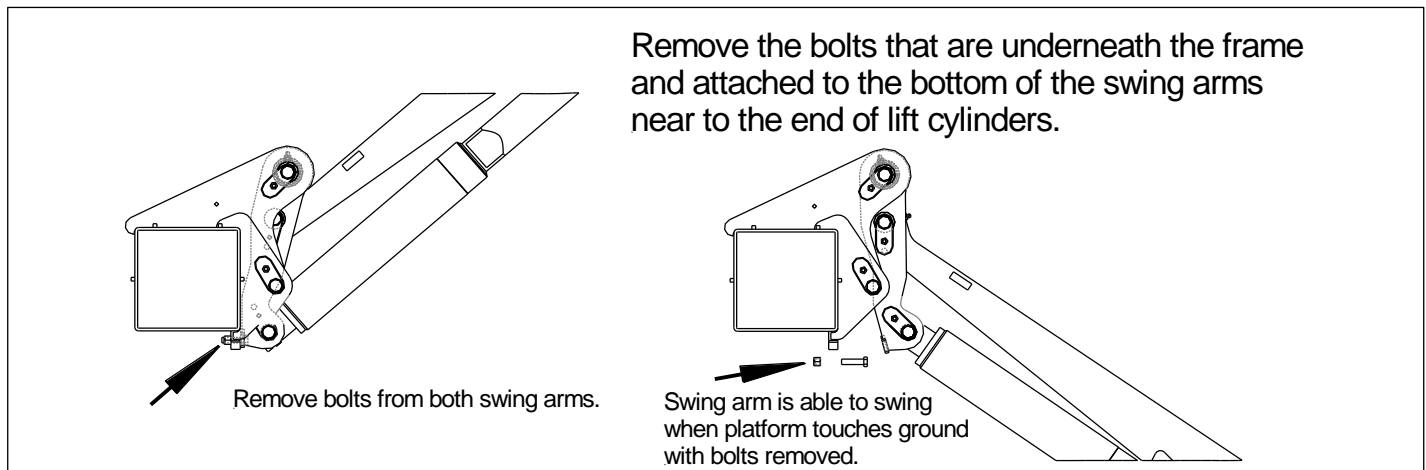
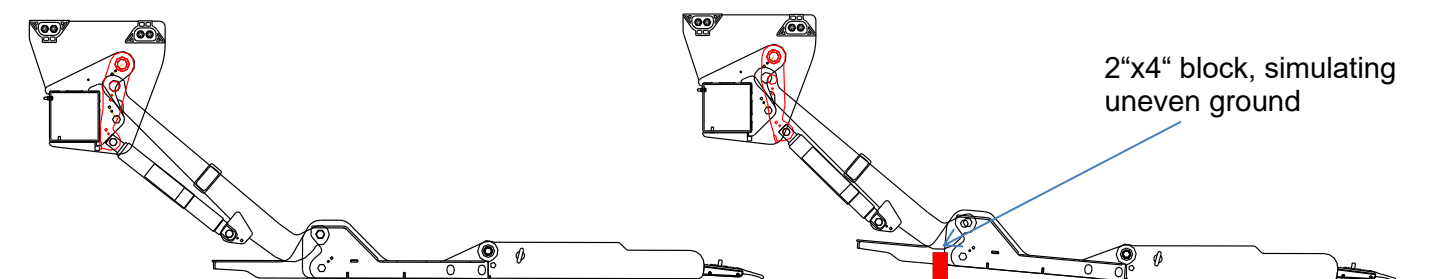


Figure 12 Removal of transportation safety bolts

By removing the bolts the gate gains the possibility to offset an uneven ground by tilting down the platform so that the platform is able to lay flat on the surface for an easy loading and unloading.

When bolts are removed test tilting function by lowering lift arm onto a 2" x 4" block. Keep lowering platform after lift arm touches block to swing arm away from main frame. Platform will tilt down and aluminum tip will touch ground until steel main section touches ground as well.



While swing arm is detaching from main frame lift cylinders keep retracting to compensate for rotation of platform. Platform stops lowering down when main section meets ground or cylinders are completely retracted.

Control power wiring setup

To maintain the best possible power supply, install the auxiliary batteries as close as possible to the gate.

- Truck installations might not have an auxiliary battery kit (INTERLIFT Liftgates **always** recommends a kit). In this case you have to run the control power straight off the truck battery.
- Trailer installations always have a battery kit (at least 2 batteries) attached to frame on driver side

Connect your control power to the positive (#2 & #4) and the negative (#1 & gr/ye) post of the batteries.

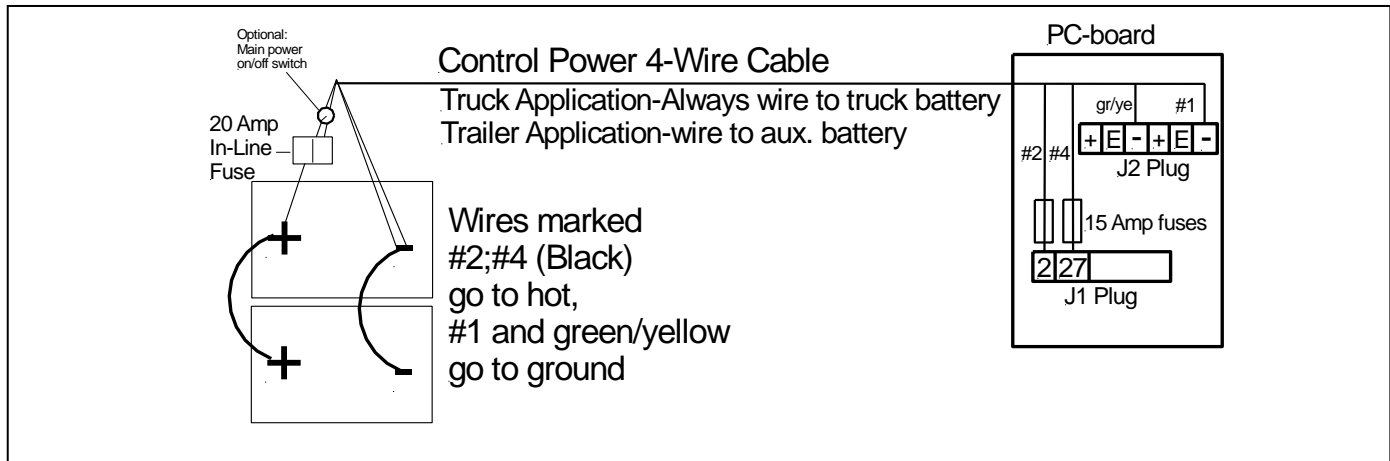


Figure 13 Board control power wiring connection

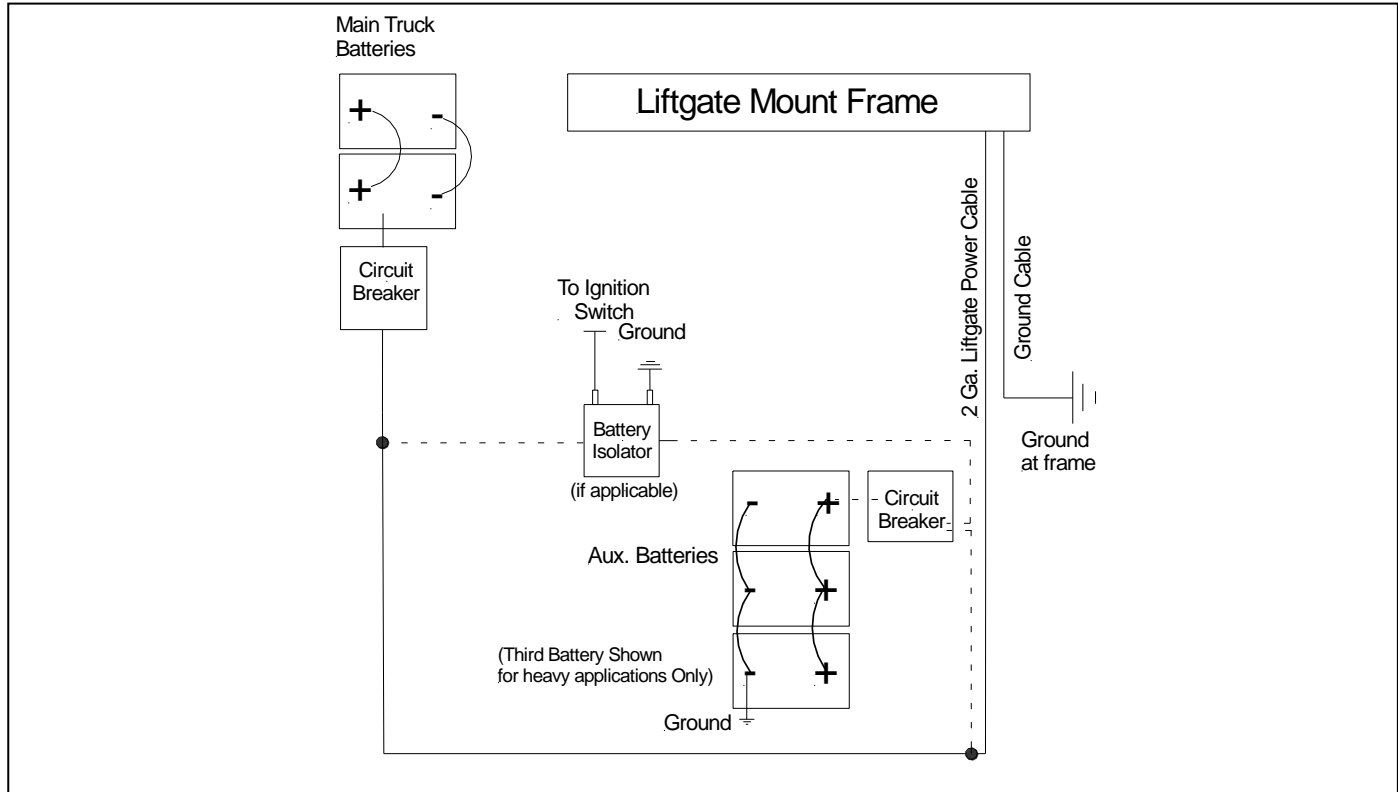


Figure 14 Main Power supply setup

5.4.1 Platform storage Up-stops

With gate power wiring in place and fully functional, place gate and platform in final storage position for installation of up stops.

- The up stop assembly (x2) and the steel right angle piece (x2) are included with every gate.

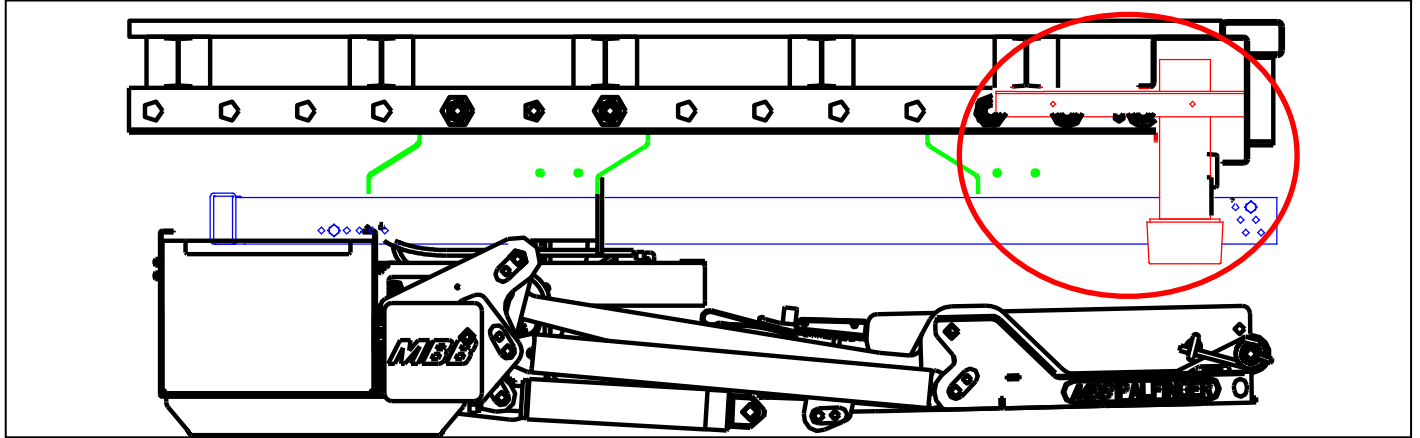


Figure 15 Installation of up-stops

NOTICE

- Up Stops **MUST** be installed to avoid damage to platform when travelling down the road
- The up stop must be mounted high enough so that they do not make contact with the mainframe tube.
- Rubber bumper should make contact with Alum Tip section 1-1/2" below steel sliding tube (see Figure 14)
- Place the channel so that it is **connected to cross members and buck plate**, to get the most stability
- The up stops must be mounted rearward enough so that they do not make contact with a tube mounted aux battery box when the gate is slid out (Figure 15 right picutre)
- The main pin and lift cylinder hoses must clear the up stop when the gate is slid out (Figure 15 left picutre)

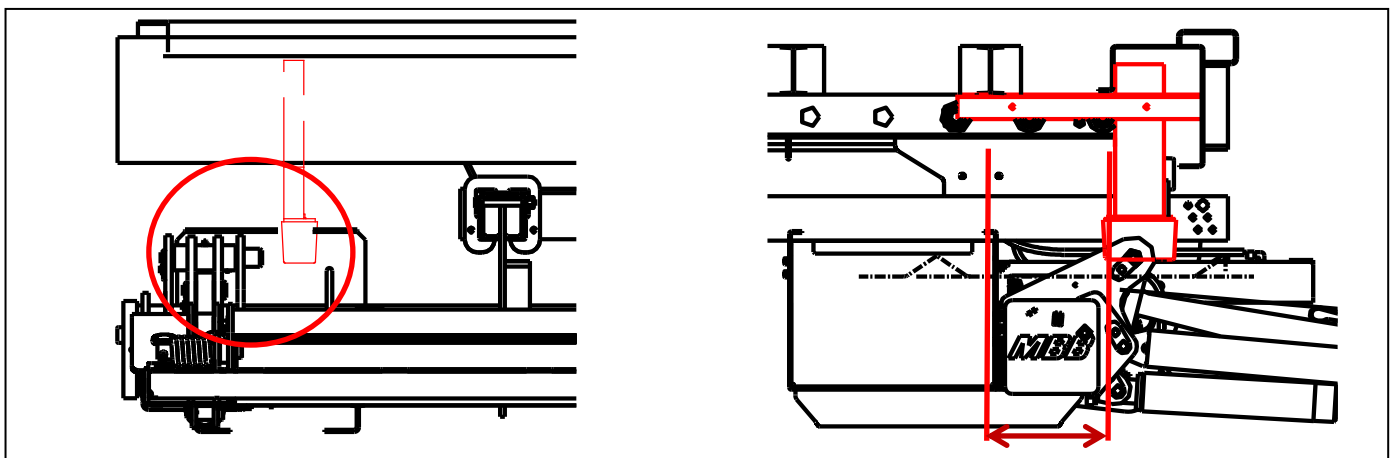


Figure 16 Up-stop setup for travel position

5.4.2 Slider rail stops setting

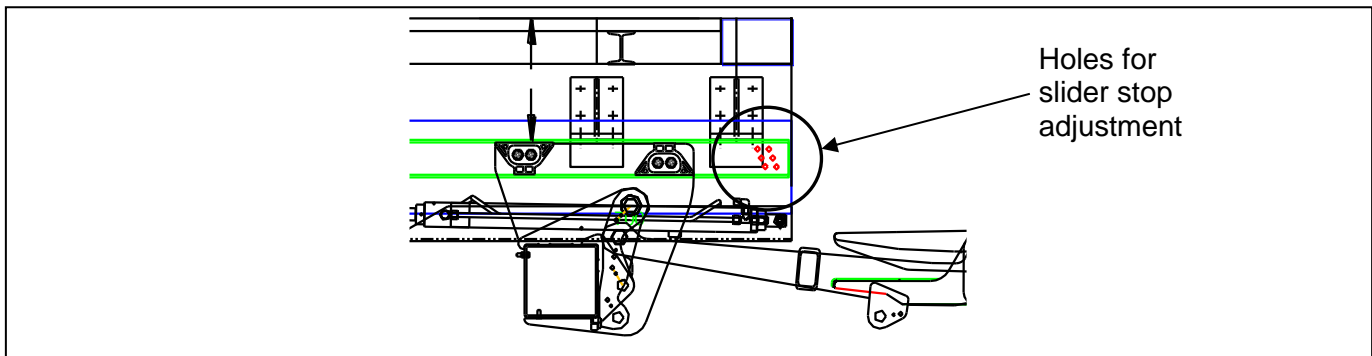


Figure 17 Slider rail stops

- For final adjustment, lift the platform all the way up till it is level with the truck/trailer floor
- Choose the hole that is the closest to the mount plate in the slider rail
- Install the bolt and tie it down in each side.
- Use the same hole on each side to assure an even position of the platform with the body.

5.4.3 Control box installation

Determine location for control box; locate it in a way that the operator can view the platform and surrounding areas while operating the liftgate.

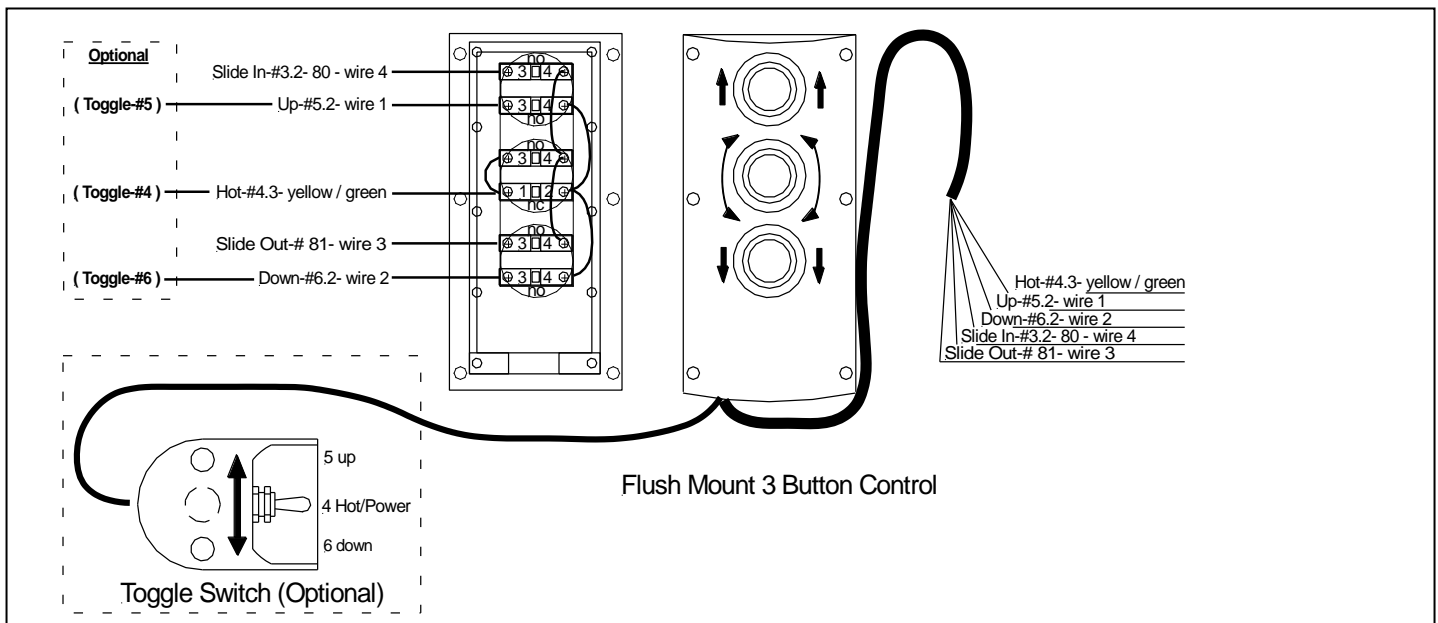


Figure 18 Flush mount Control box wiring

- Run the 5-wire harness, coming out of the main wire loom, to the control box. Run the wire inside the body and connect wires as shown in Figure 18.
- Make sure all jumpers inside the control are set and cables are tight at the contact blocks.

6 Electrical Installation

When performing electrical installation, be certain to install and secure everything in a way where it is not subject to damage from moving parts, sharp edges, exhaust systems, etc.

⚠ WARNING

- Any deviation from INTERLIFT Liftgates' recommended power setup (see 6 Electrical Installation) will **void warranty and product liability** unless you have a written confirmation by INTERLIFT Liftgates that allows you to do specific changes.

NOTICE

- Never exceed rating of existing fuses located at the battery, control board and/or the pump and motor which may result in serious damage to the equipment.
- Never jump the 150 Amp circuit breaker at the batteries unless otherwise instructed by the INTERLIFT Liftgates technical support center
- Assure all connections are tight and securely fastened
- Heat shrink any connection to all cables.
- Never secure a cable in a way where it can make contact with other wiring, brake-, fuel- or air-lines etc. or get pinched against other objects.

6.1 Breaker Installation

- Mount circuit breaker securely in battery box or at positive battery post using supplied buss bar
- Connect liftgate 2Ga. cable to open stud on circuit breaker
- Connect 2Ga. jumper from open stud on breaker to positive battery post if circuit breaker was not mounted straight at battery

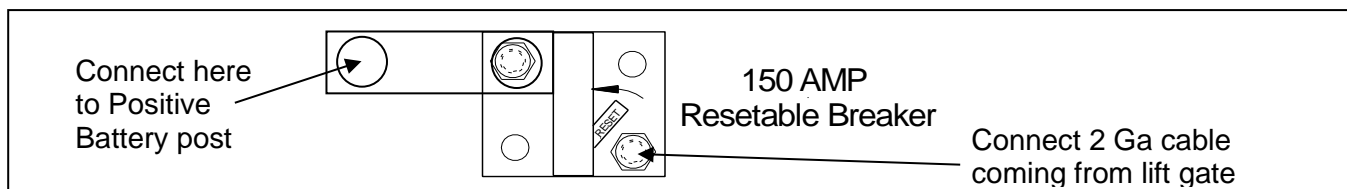


Figure 19 Circuit breaker installation

6.2 Wiring schematic main battery power - Truck setup

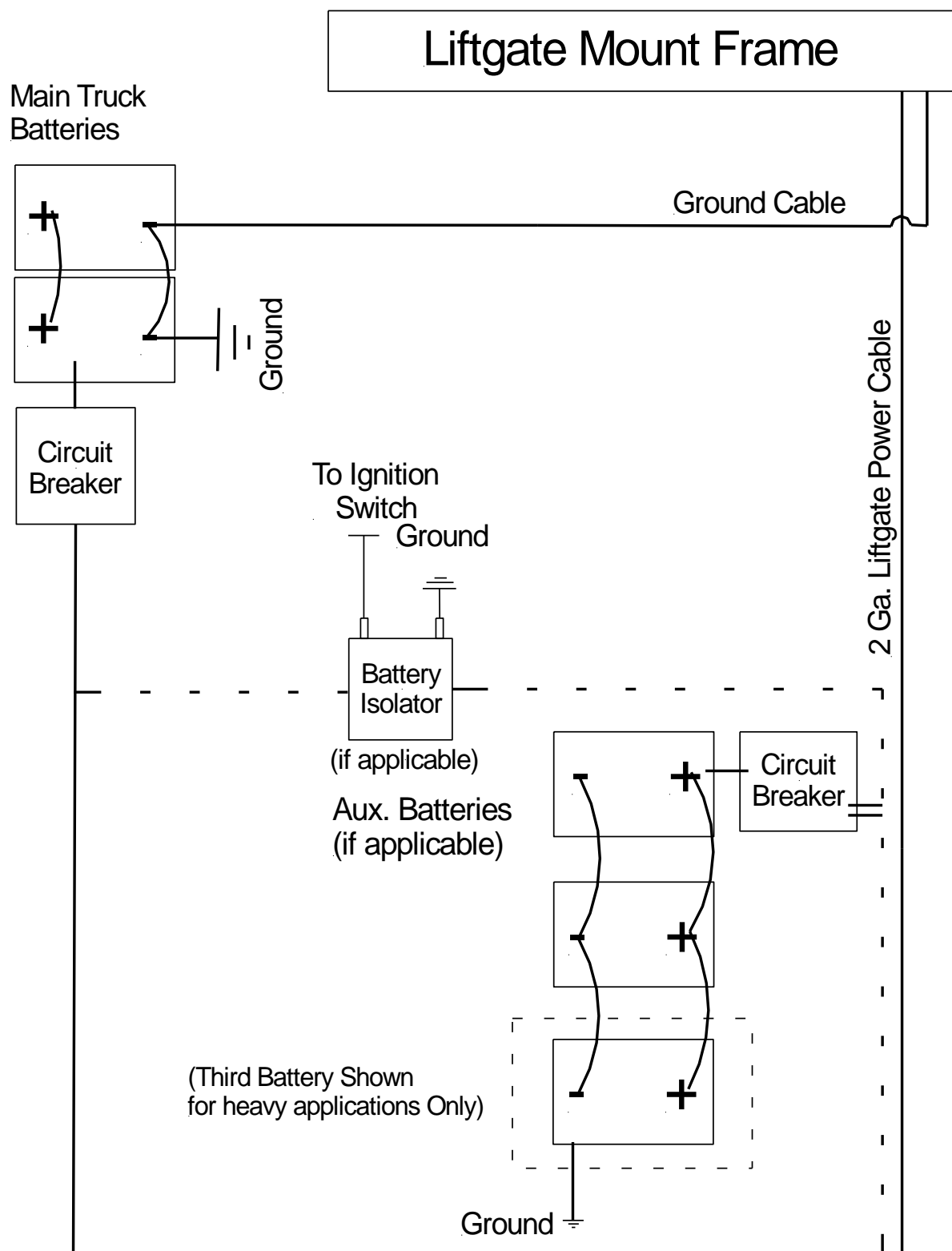


Figure 20 Main wiring - truck setup

6.3 Wiring schematic main battery power - Trailer setup

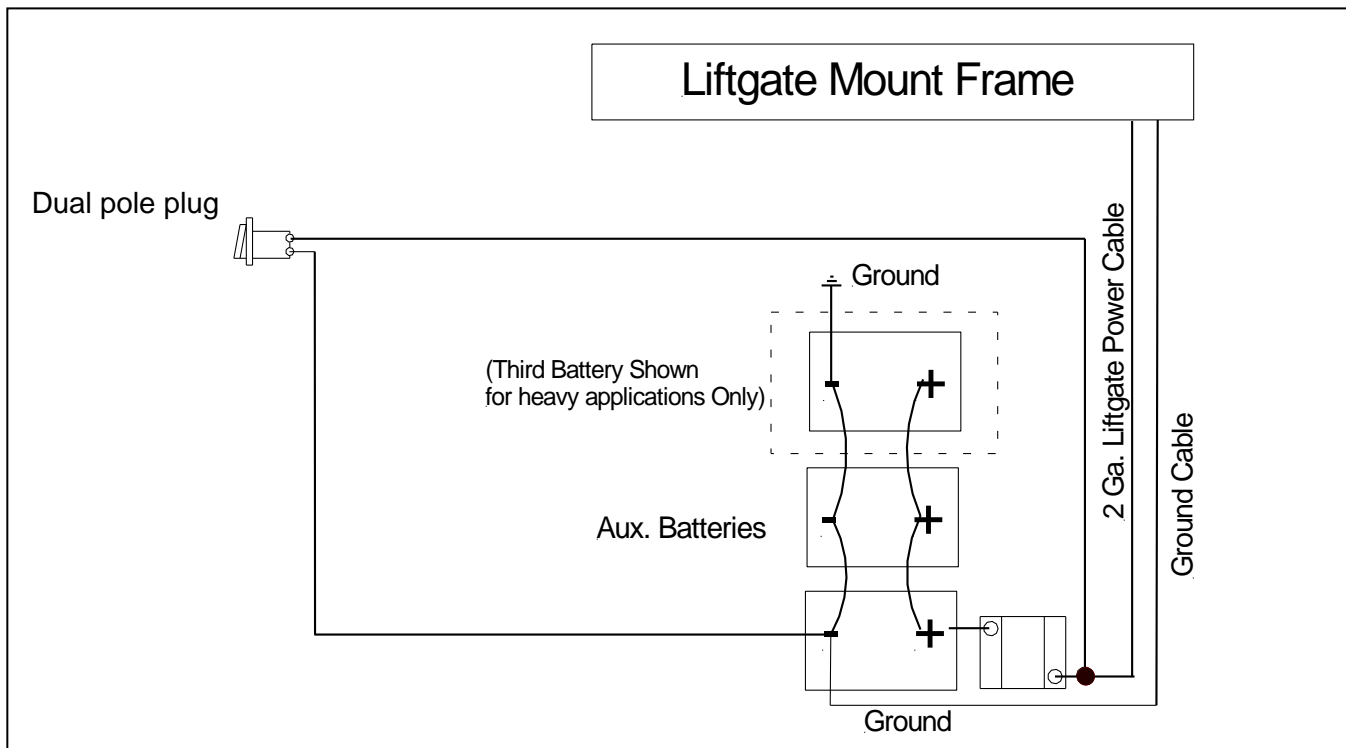


Figure 21 Main wiring - trailer setup - dual pole charging system

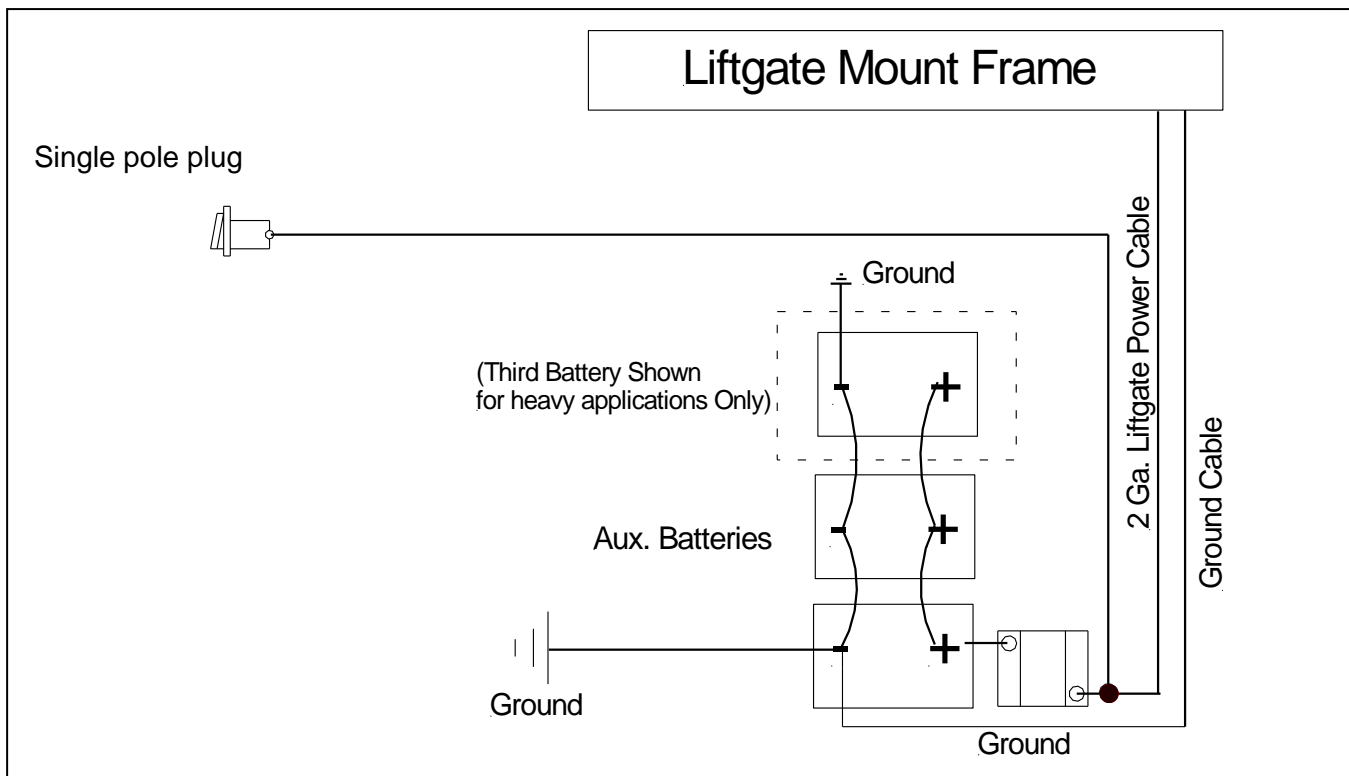


Figure 22 Main wiring - trailer setup - single pole charging system

6.4 Trail charger installation

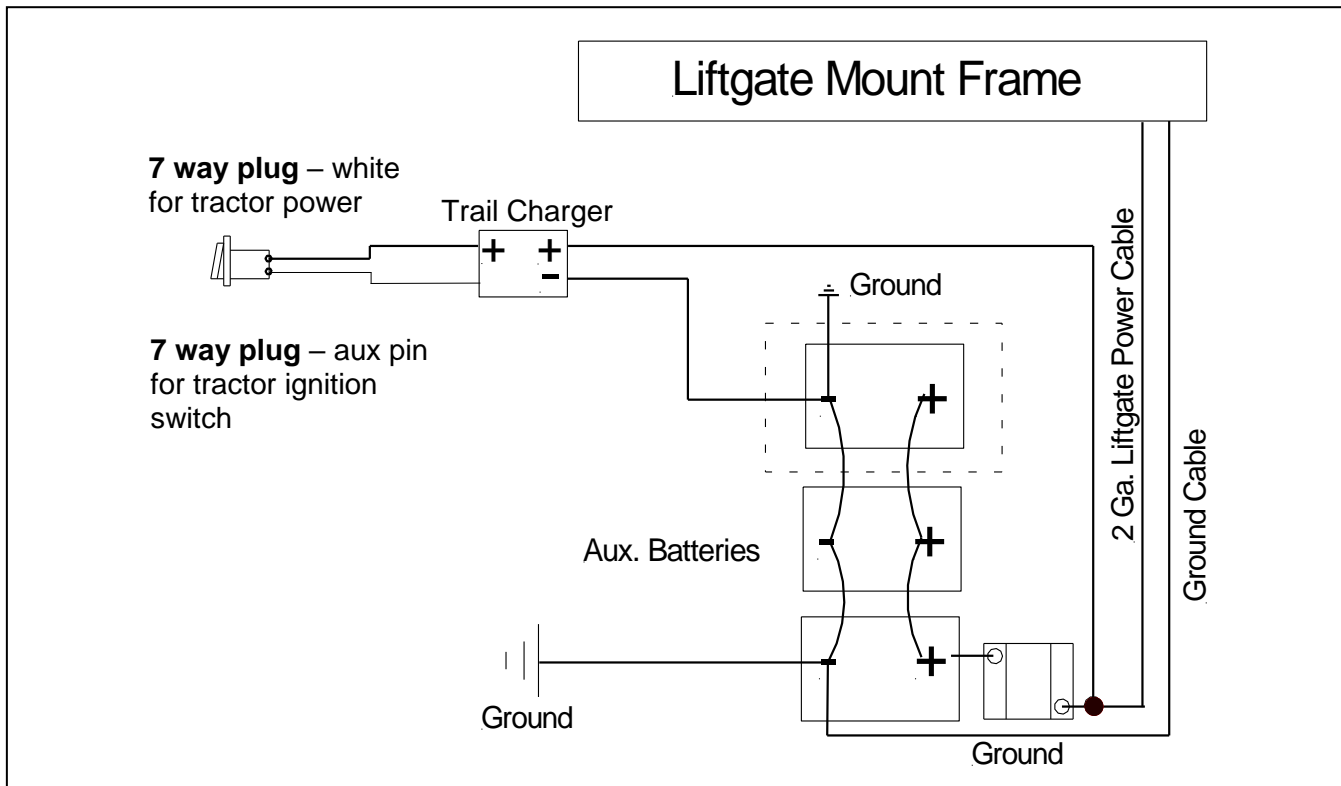


Figure 23 Trail charger wiring

- Install the 2 Ga. positive and negative battery cables securely from mount frame to battery and truck/trailer chassis with proper service loop for sliding liftgate. Make sure the cables cannot catch on anything during the slide, test several times.
- Running the cables along the frame, secure the cables every 12 inches.

6.5 On/off switch installation

6.5.1 Truck setup

Lead the 3-wire cab switch (J-11 plug) together with the battery cable (2 Ga battery cable) and the 4 wires for the control power (**J1 #2 and #27; J2 #-“**)to the batteries along the sub-wood. Secure the cable every 12 inches against the sub-wood with cable staples. Run the cab switch only into the cab. Ensure that the switch has the jumper from the blue to the white cable in place. (Responsible for the L.E.D lights)

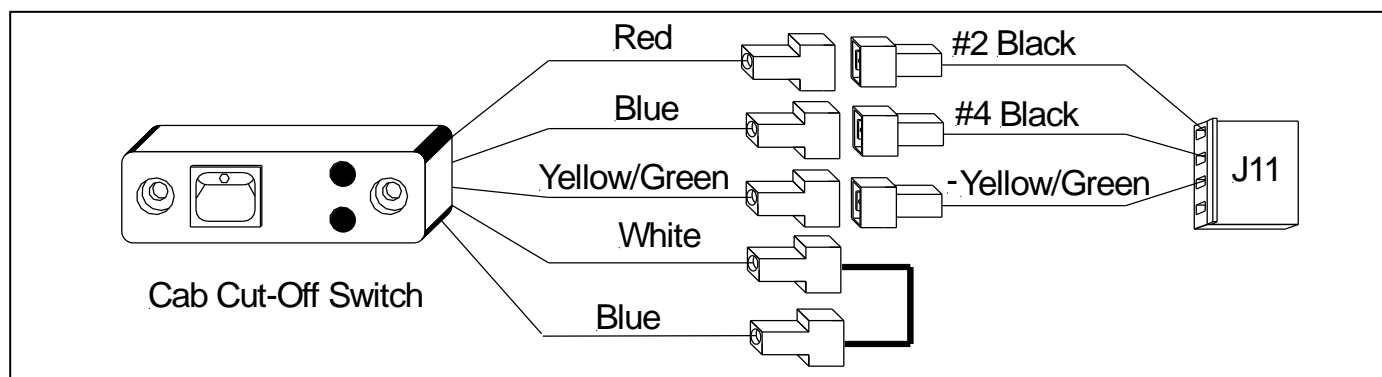


Figure 24 Cab Cut-off switch connection

6.5.2 Trailer setup (turning knob style control box)

Trailer units do not have a cab switch. The on-off switch is integrated into the control box. The switch is on the right hand side in the control box. It is prewired and does not need any additional work.

Main power is been taken of J-11 #2 and returns to the board through J-30 #4. All #4 terminals are internally hardwired on the board and have 12 V the moment the switch gets turned to “on” position.

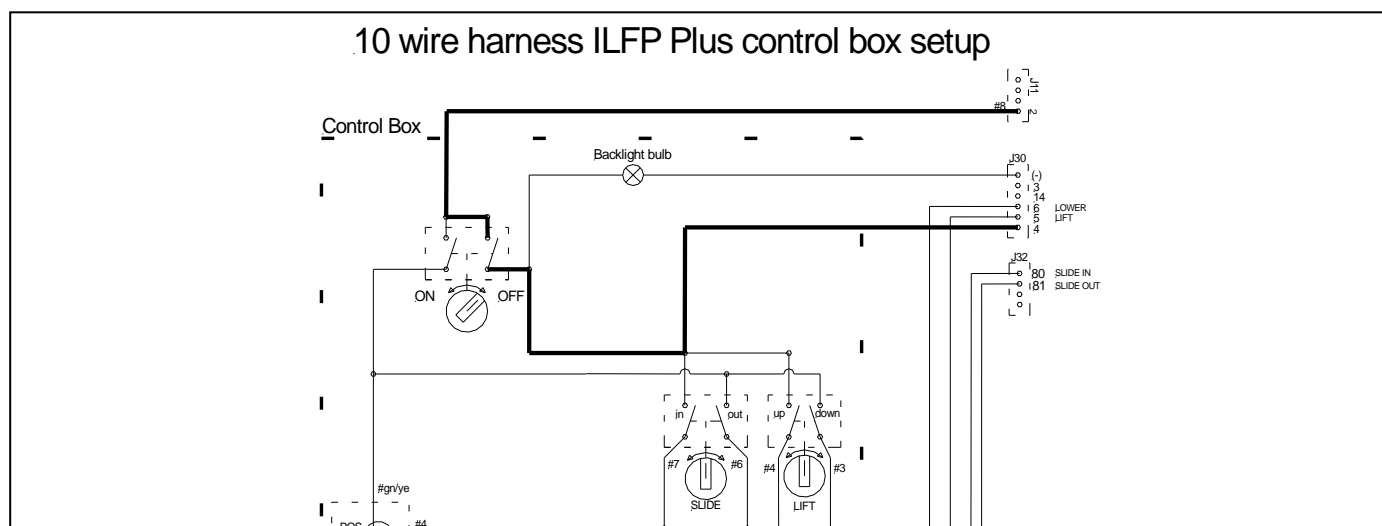


Figure 25 On-Off setup trailer

6.6 Control board wiring and connector setup

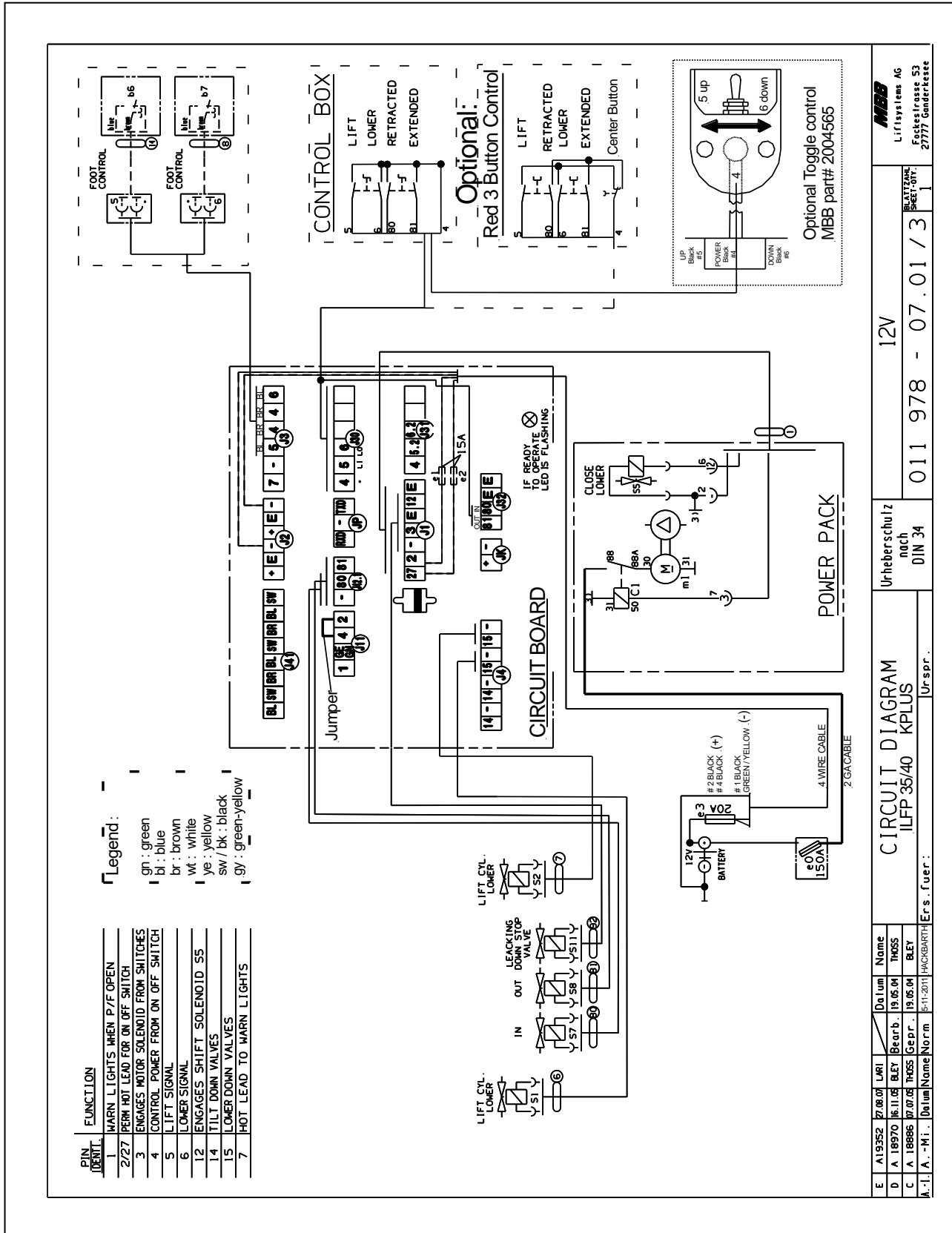


Figure 26 Control board wiring schematic

6.7 Control board plug setup

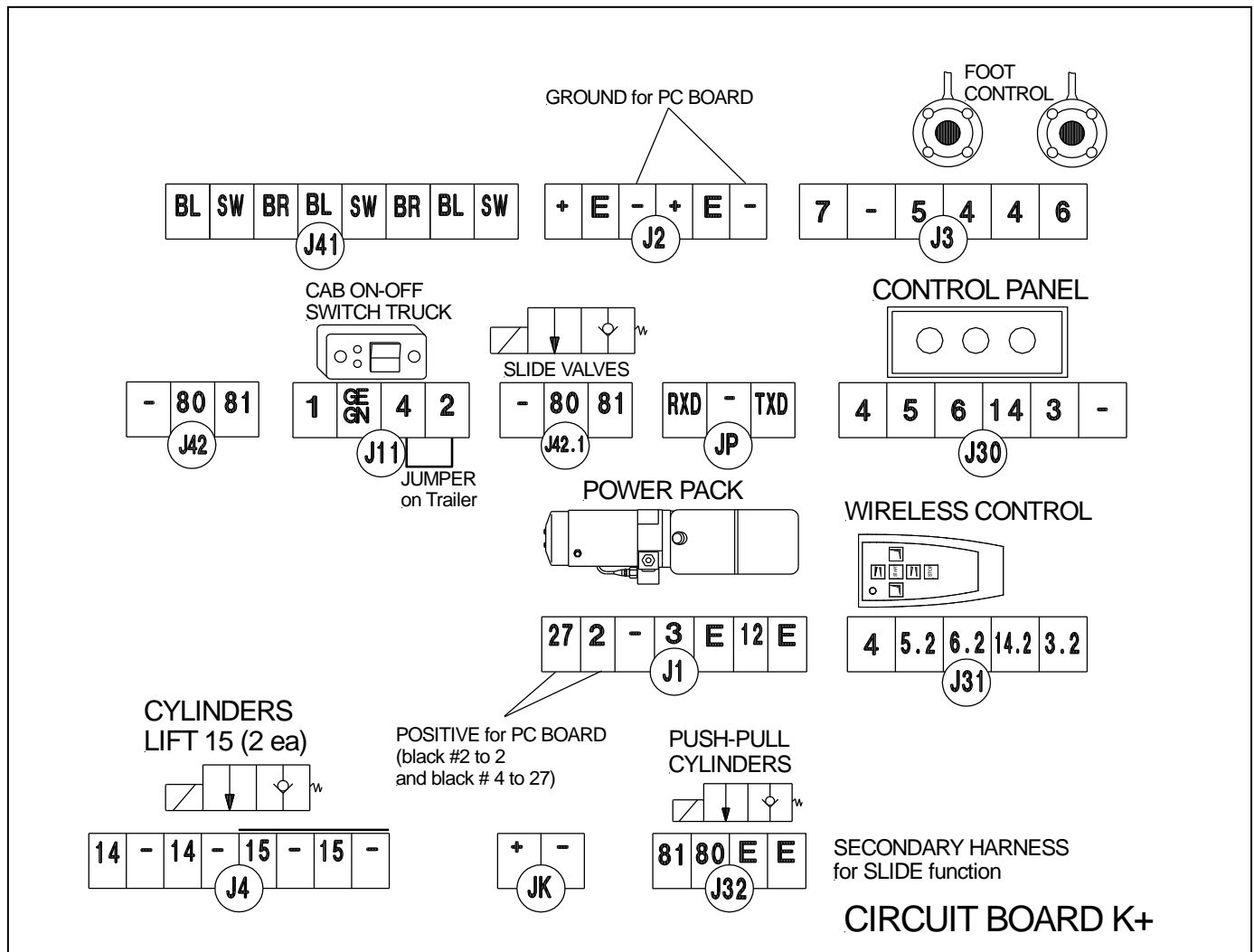


Figure 27 Plug setup on PC - Board

This graphic describes the different functions of each plug and where it is connected to. Make sure every plug is in its correct position and fuses are in good conditions.

Connector description:

- J-1: Main power input and connection to pump & motor tray
- J-11: ON-Off switch for truck setup
- J-2: Ground connection
- J-3: Platform equipment (foot controls)
- J-30: Control panel
- J-32: Control button input for slide function
- J-4: Lift cylinder- (#15)
- J-42.1: Output to Slide valves S-7 (slide in) and S-8 (slide out)

6.8 Control board wiring and connector setup (Easy move model)

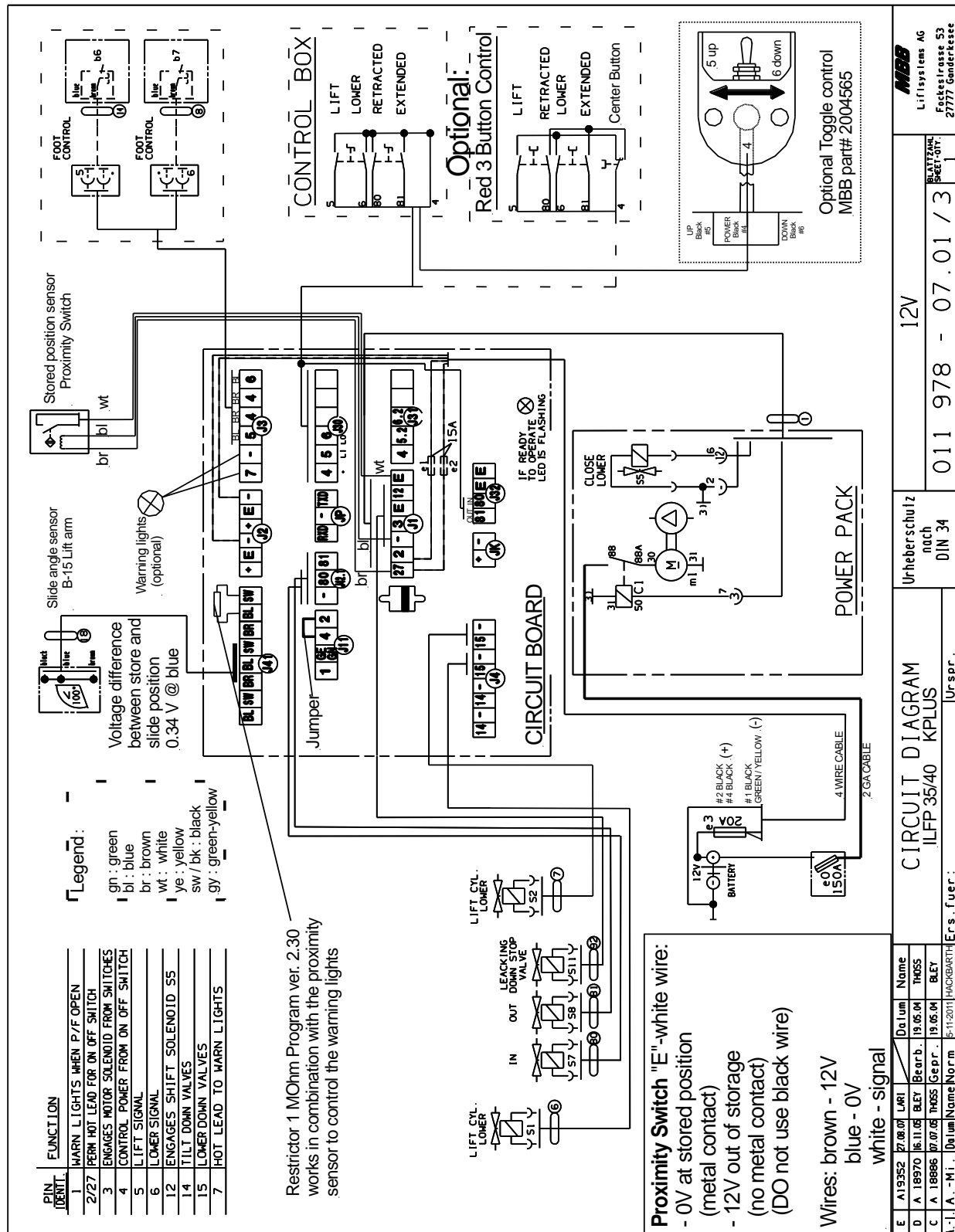


Figure 28 Electrical schematic Easy move

6.9 Control board plug setup (Easy move model)

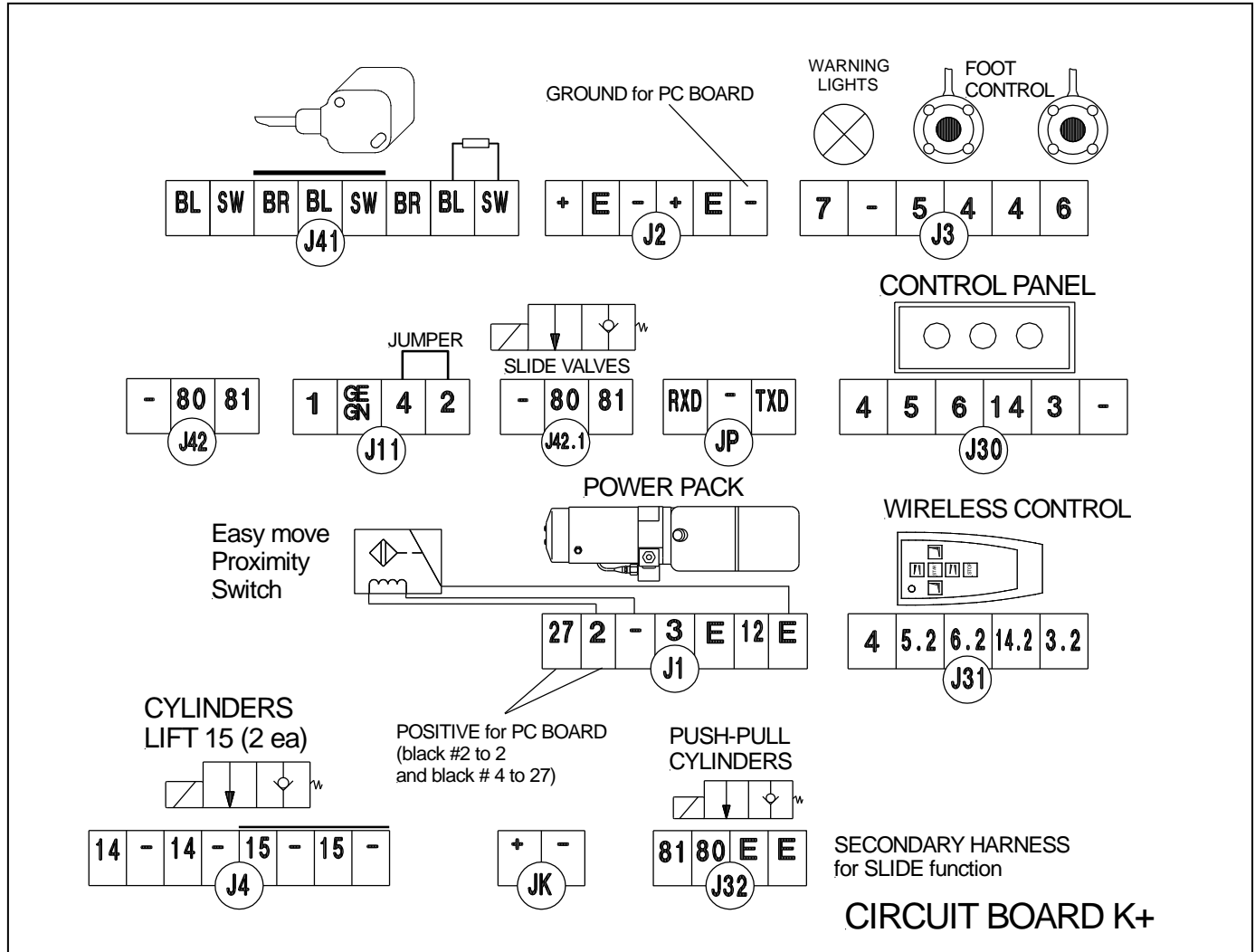


Figure 29 Plug setup on PC - Board

This graphic describes the different functions of each plug and where it is connected to. Make sure every plug is in its correct position and fuses are in good conditions.

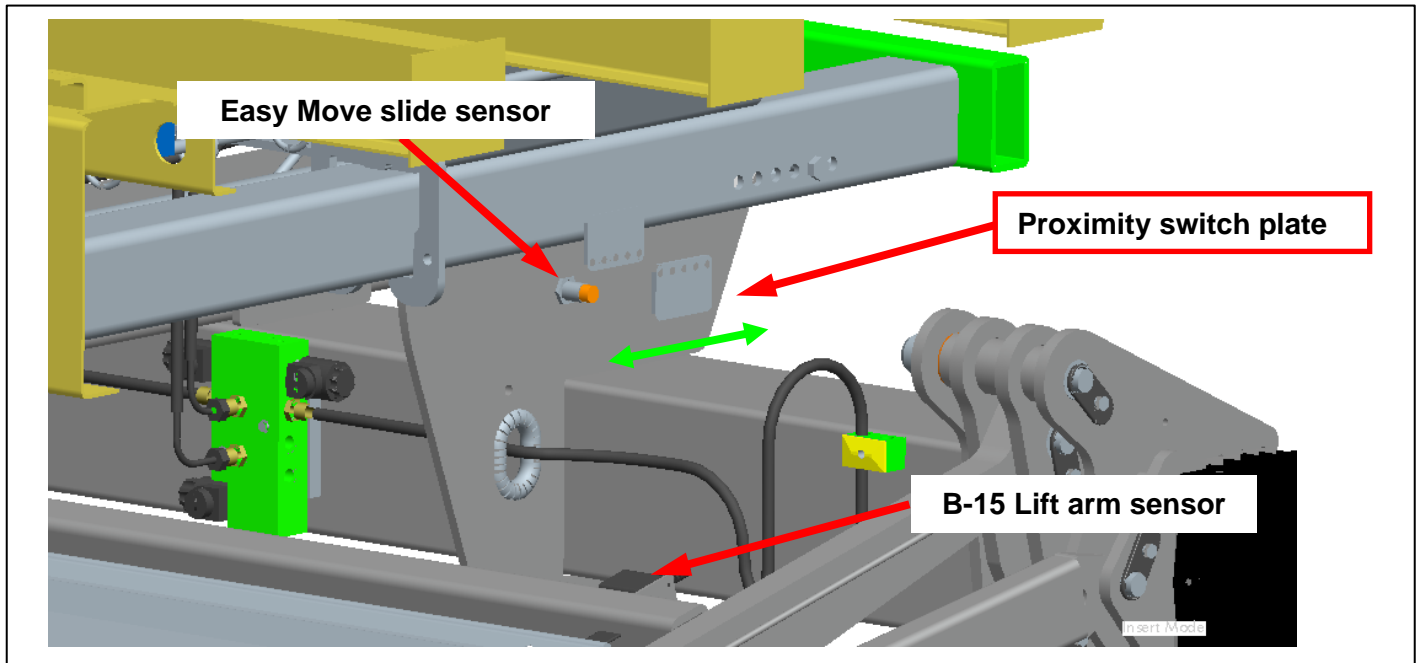
Connector description:

- J-1: Main power input and connection to pump & motor tray
- J-1: Connection on "2", "-" and "E" for Easy move proximity switch
- J-2: Ground connection
- J-3: Platform equipment (foot controls)
- J-30: Control panel
- J-32: Control panel input for slide function
- J-4: Lift cylinder- (#15)
- J-41: B-15 Lift arm sensor for Easy move platform position control
- J-42.1: Output to Slide valves S-7 (slide in) and S-8 (slide out)

6.10 Easy Move Sensor Adjustment and setup

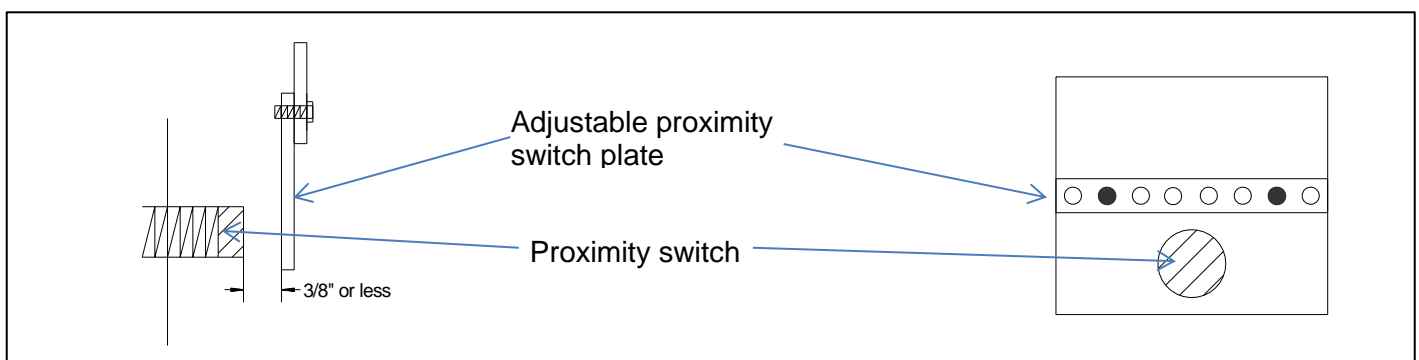
The INTERLIFT Liftgates ILFP Easy Move is a self-adjusting sliding option. The **Easy Move** requires

- (1) B-15 Sensor, mounted to the inside of the main lift arm
- (1) Proximity switch, installed at the sliding mount plate
- (1) Proximity switch plate, attached to the sliding rail



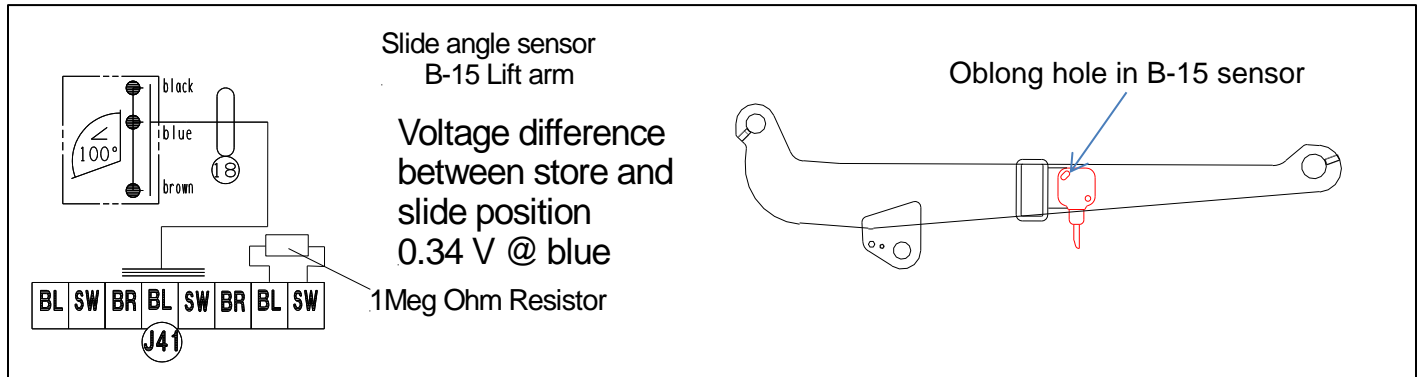
When successfully installed the ILFP, the **Easy Move option has to be activated**. In order to do that, proceed with the following steps:

- 1) Slide the gate into its stored position and raise it up, make sure the proximity switch is being overlapped by the metal sensor plate on the slide rail – distance approx. 3/8" or less.



2) Connect the J-41 Plug to the board to activate the B-15 Sensor

- a. Attach your digital voltmeter to the blue (signal) and brown (ground) cables on the J-41 plug
- b. Voltage should be between 1.4V and 1.6V with gate in stored position
 - i. If necessary rotate B-15 lift arm sensor within oblong hole to achieve voltage range
 - ii. After adjusting B-15 unplug and reattach J-1 plug for reset the signal to board



3) With sensor fine-tuned and gate activated, run gate through (2) full cycles.

- a. Slide gate out and LOWER to floor. Activate “slide in” function. Gate will raise and lift at the same time until preset slide level is reached. Gate will slide in and lift up into travel position when reached end position.
- b. Slide gate out and LIFT to truck bed. Activate “slide in” function. Gate will lower until preset slide level is reached. Gate will slide in and lift up into travel position when reached end position.

6.11 Control box wiring (internal) for turn knob model

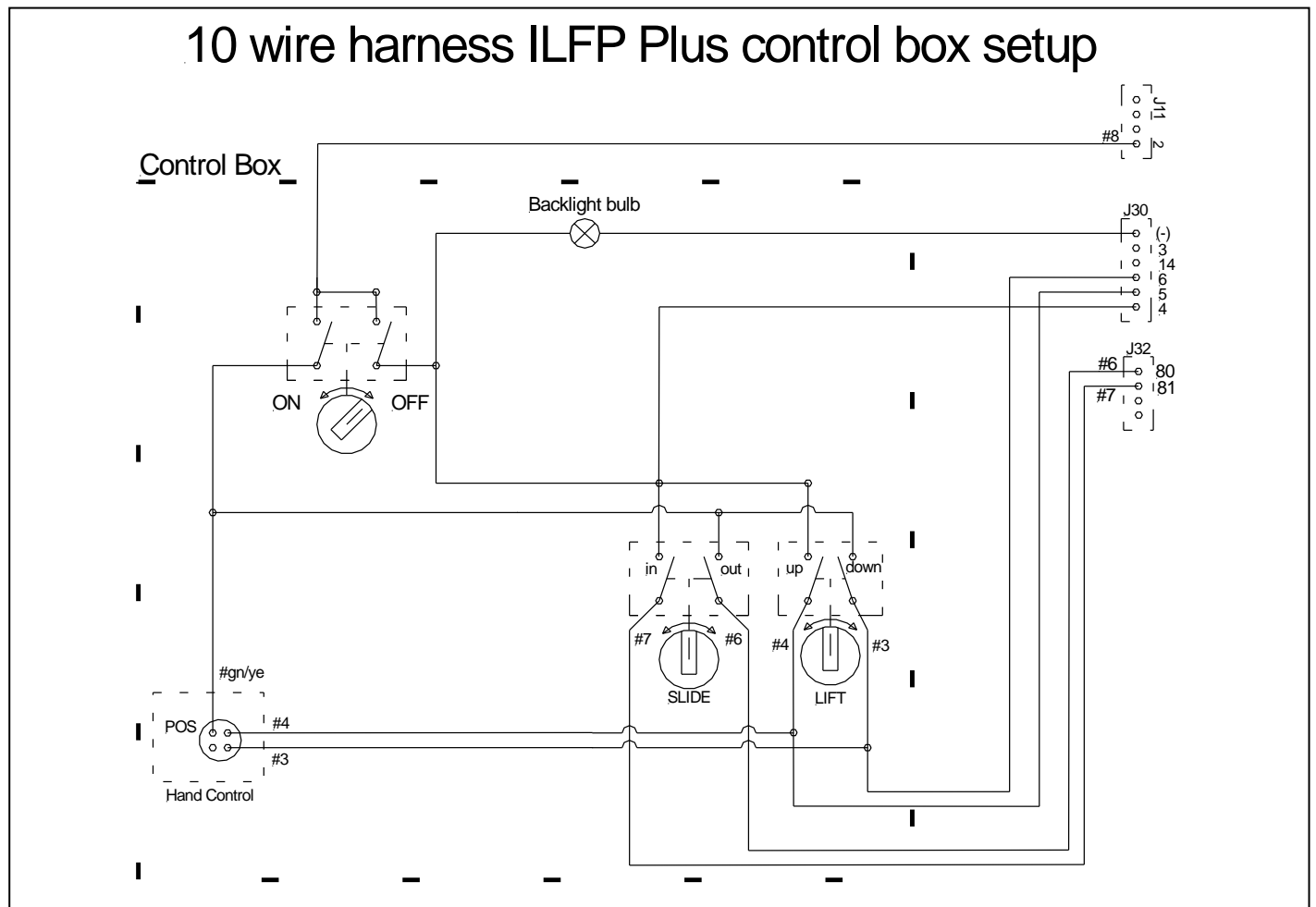


Figure 30 Control box wiring schematic

- J-2 #2: Main Battery power
- J-30: Control box PC-board input gate operation functions
- J-32: Control box PC-board input gate sliding functions (#80 slide in; #81 slide out)

6.12 2 Button Remote Hand Control

The hand held remote control plug is integrated into the control box. No separate wiring is needed.

Wire coding inside hand control:

UP	-	RED
DOWN	-	YELLOW
12V HOT	-	GREEN

7 Hydraulic schematic

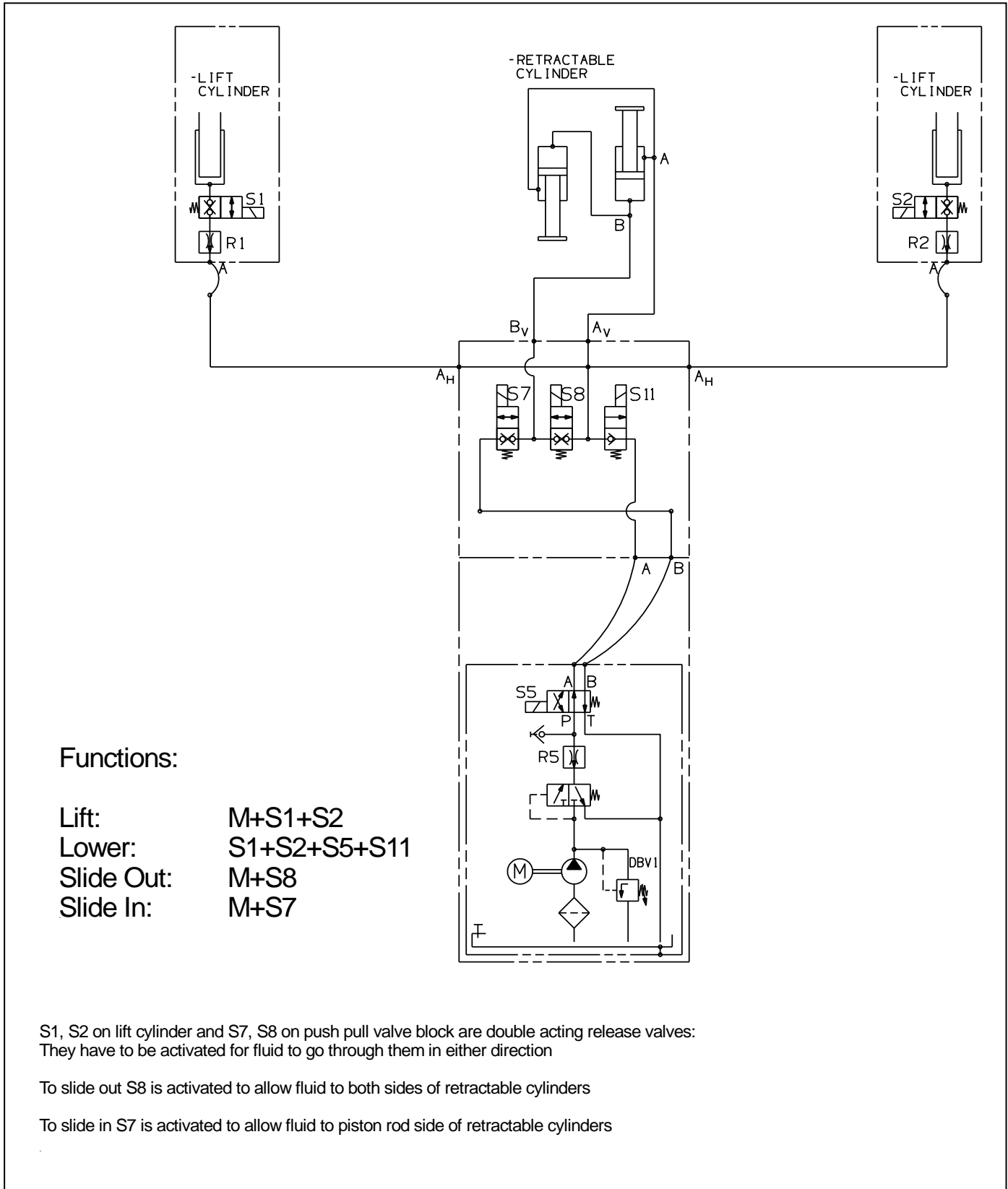
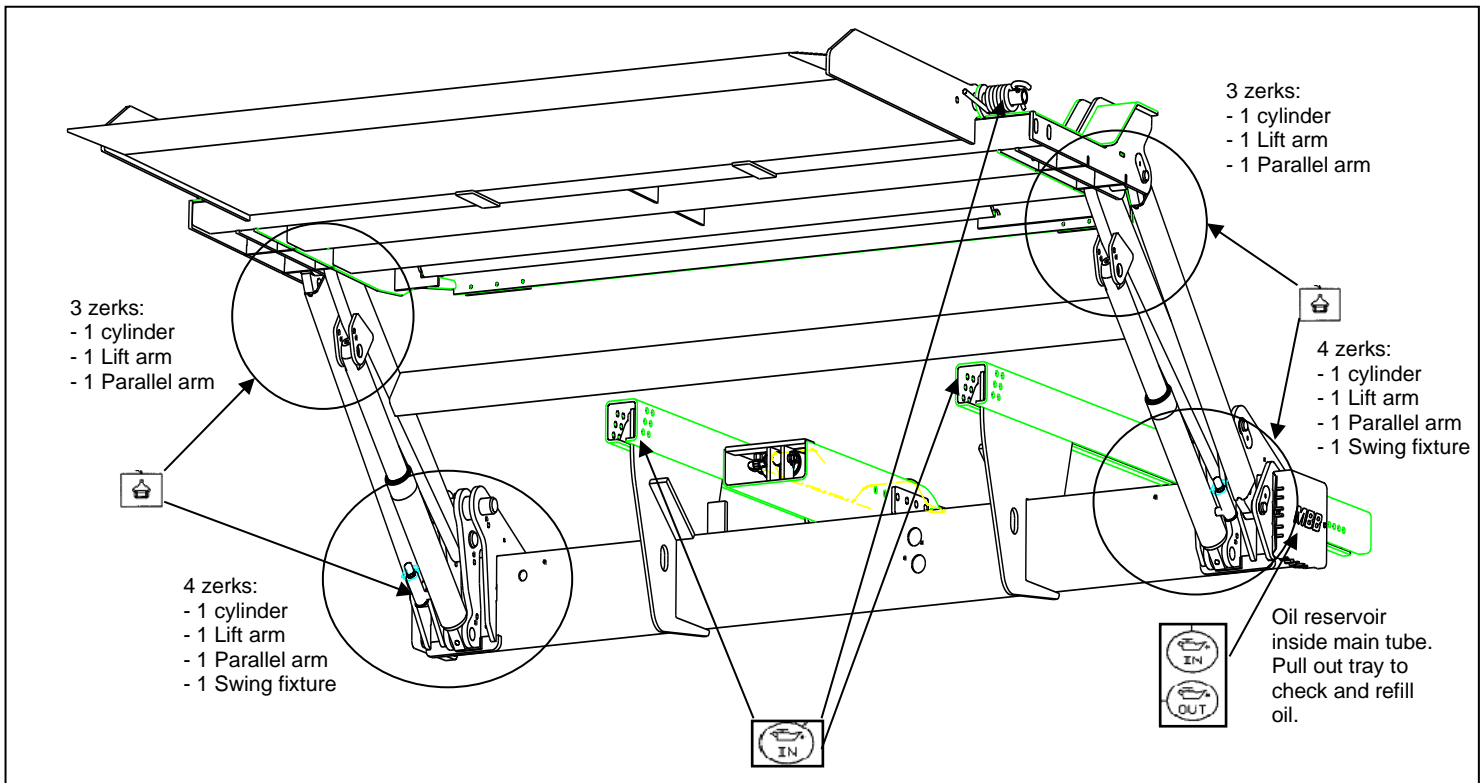





Figure 31 Hydraulic schematic ILFP

7.1 Lubrication



 Location of Grease Zerks (7 on each side, 14 total)

 Oil level in the power pack tank (see marking inside of power pack reservoir)

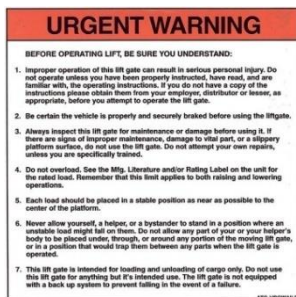
 Platform hinges, Slide Rails and optional Cart Stops (use WD-40 spray for lubrication)

- Open platform and raise lift gate to bed level
- Remove red caps, apply grease until grease begins to flow from bushing ends
- Lower platform to ground and repeat
- Cycle platform open and closed several times and grease again
- Wipe excess grease from joints and replace ALL red caps

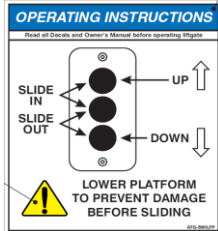
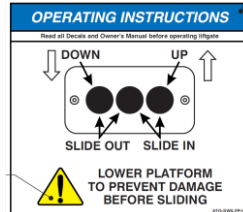
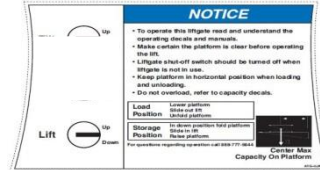
7.2 Decal Placement and Inspection

For operator's safety, all decals appearing in "Decal Kit" must be in a conspicuous place on control side of liftgate to be read by operator. This is typically a combination of decals on the liftgate and truck body. Please make sure to place the maximum capacity decal (C) on driver and curb side.

- (A) 1 ATG-URGWA - Urgent warning: Elevating gate instructions
- (B) 1 ATG- SWILFP - Main Operation (Control Box)
- (C) 2 ATG-XXXX - Max. Capacity (please check the serial number plate to find out your specific capacity)
- (D) 1 ATG-CAB - Liftgate Shut-Off (must be placed next to the Shut-Off Switch)
- (E) 1 ATG-BKR - Circuit Breaker Reset (must be located at the circuit breaker)
- (F) 2 ATG-WLH - Warning: liftgate can crush
- (G) 2 ATG-CTN - Caution: Always stand clear of platform area
- (H) 1 ATG-RESET - Circuit Breaker Protection
- (J) 1 ATG-FT - Notice for Foot Control (if applicable)
- (K) 1 ATG-UD - Toggle Decal (next to the toggle switch, if applicable)
- (L) 1 ATG-WNG - Warning: Use handle to open (must be located underneath handle (main section))
- (M) 1 ML2038837 – Palfinger Logo (Yellow)
- (N) 1 85-7524-008 – QR Scan Code Decal, ILFP



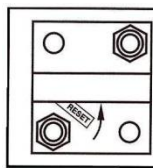
Decal - A

Decal - B
Version 1Decal - B
Version 2Decal - B
Version 3

Decal - C



Decal - D



Decal - E



Decal - F



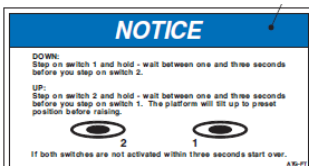
Decal - G



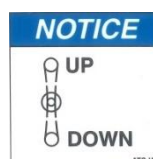
Decal - M



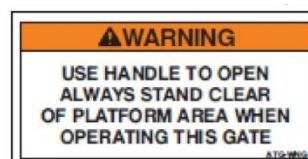
Decal - H



Decal - J



Decal - K

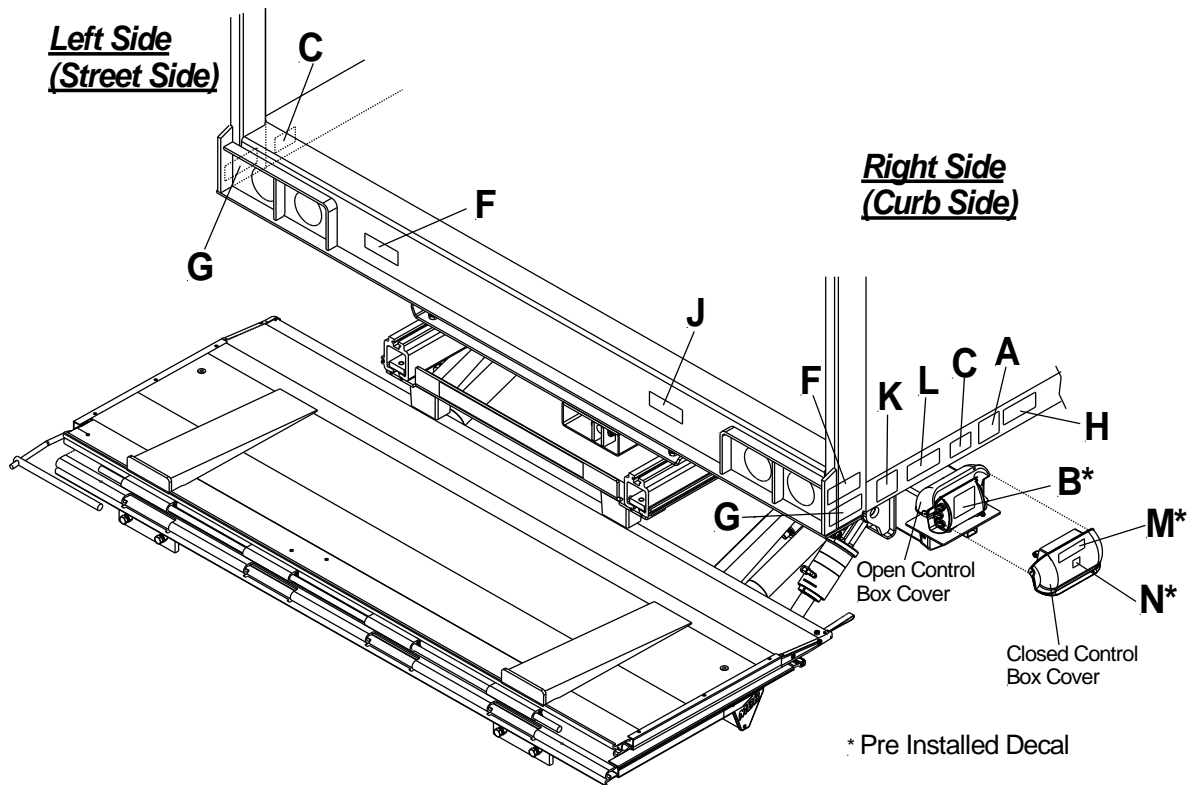


Decal - L



Decal - N

The picture below will help you to place all decals visible in order to get maximum operational safety.



Check Off Sheet

JOB NO. _____

GATE NO. _____

VIN NO. _____

☐ OWNER'S MANUAL IN CAB☐ ON-OFF SWITCH WORKING & DECAL IN PLACE☐ WIRING

- ☐ 1. Power Cord Secured
- ☐ 2. Cables Not Rubbing Steel
- ☐ 3. 12V Control Wire Secured
- ☐ 4. Loomed & Stapled
- ☐ 5. Circuit Breaker & Fuse
Installed & Decal In Place
- ☐ 6. Loop in platform sensor wire

☐ HYD. LINES
SECURED

- ☐ 1. No Rubbing On Frame
- ☐ 2. No Rubbing On Platform
- ☐ 3. Up-Down Clear
- ☐ 4. Storing Platform Clear

☐ HYD. OIL
LEAKS

- ☐ 1. None At Hoses
- ☐ 2. None Power Pack
- ☐ 3. Cylinders

☐ WELDS

- ☐ 1. Full Welds Mount Brackets
- ☐ 2. Ground Off / Clean
- ☐ 3. Frame Capped Off

☐ PUMP
& MOTOR

- ☐ 1. Check Fluid With Platform On Ground
- ☐ 2. Connections Tight With Heat Shrink
- ☐ 3. Power Cable Tight
- ☐ 4. Ground Cable Tight
- ☐ 5. Breather Installed
- ☐ 6. Cables Tied Off
- ☐ 7. Fuses Tight
- ☐ 8. Clamp on cover

☐ PINS

- ☐ 1. Grease Zerk In Place
- ☐ 2. Red Grease Caps On Zerks
- ☐ 3. Bolts Tight On Pins
- ☐ 4. Ground Rollers On

☐ OPERATION

- ☐ 1. All Functions Operate On
outside Control & Hand Control
- ☐ 2. Up Stops In Place
- ☐ 3. Platform Meets Body
- ☐ 4. Sensor Set For Proper
Function
- ☐ 5. Warning lights stop flashing
when gate turned off
- ☐ 6. Cab switch not flashing when
platform stored and switch off
- ☐ 7. Platform hits rear sill even
at the same time
- ☐ 9. No Paint on cylinder shafts

☐ FINAL
INSPECTION

- ☐ 1. Platform Touches Ground
- ☐ 2. Lights Working On Chassis
- ☐ 3. Lic. Plate Bolts & Lights
- ☐ 4. Decals Installed
- ☐ 5. Rubber & Plastic Caps on
- ☐ 6. Gate Painted Completely
- ☐ 7. Body Clean Around Gate
- ☐ 8. Pins Greased
- ☐ 9. Cylinders Clean
- ☐ 10. Clamp on cover
- ☐ 11. Exhaust mud flaps are ok

☐ OPTIONS

- ☐ 1. All Options On Gate
- ☐ 2. Circuit Breaker Tight
- ☐ 3. Cart Stops Working

CHECKED BY _____

DATE _____

Note:

This must be filled out and kept for your records. A copy of this sheet must be presented to INTERLIFT Liftgates for any warranty compensation

