

# TOPPEREZLIFT



## Manual

Recommendations:

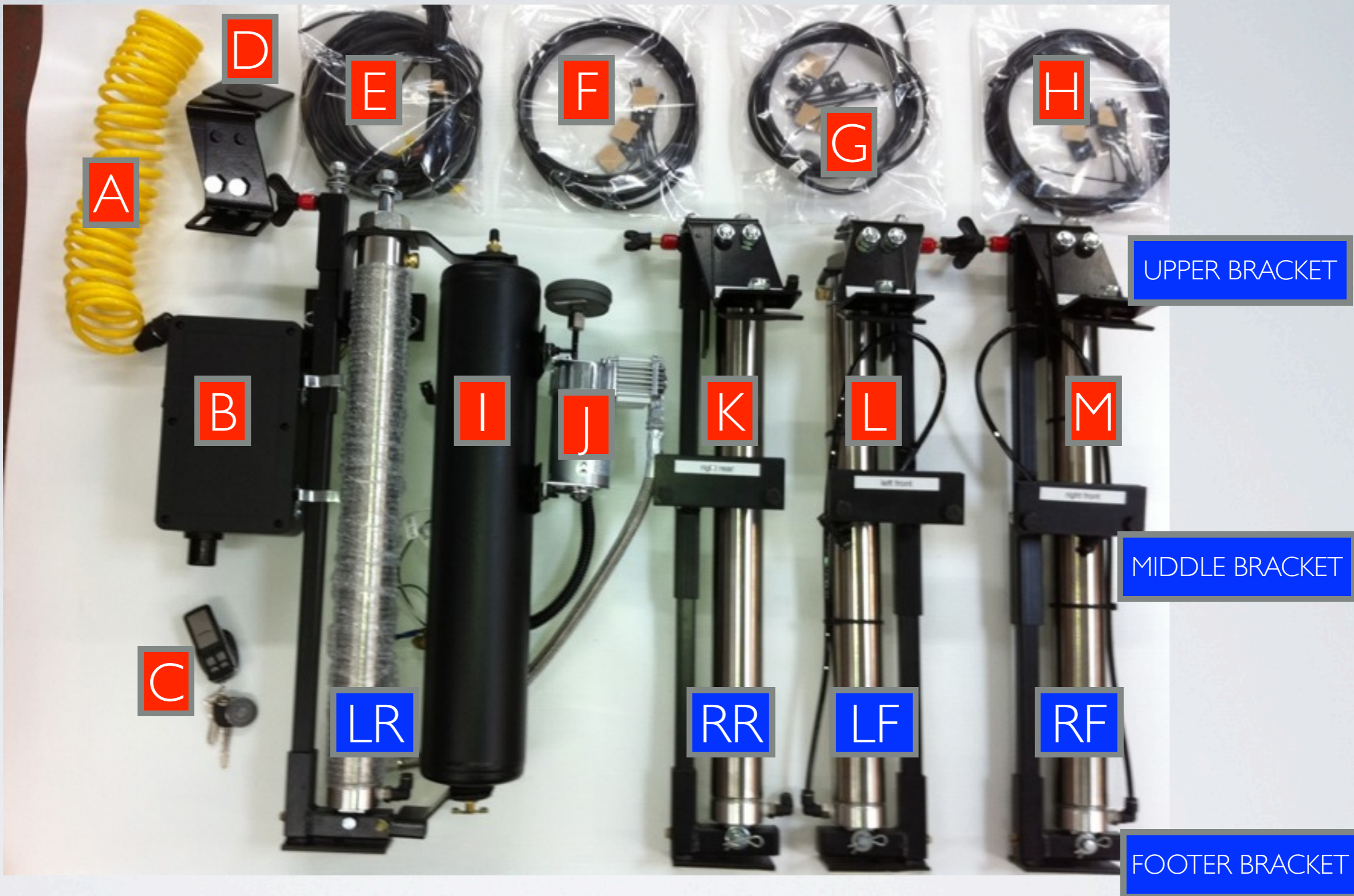
- Locate a topper reseller or equivalent in your area to perform installation.
- Please review the complete manual to insure you have all the parts and tools required
- Review the installation video at [www.ezliftingsystems.com](http://www.ezliftingsystems.com)

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# WARNING



- Not recommended to drive with topper lift raised
- Utilize lock off bolts when topper is raised
- Keep all body parts away from topper lift at all times when in motion
- Use caution when connecting electrical components
- Remove inline fuse until all electrical is installed
- Watch clearance height when raising topper
- Improper installation will result in damage to truck, topper or personal injury
- Moisture may build in the system and can be removed by releasing the bottom petcock of the air tank
- Hand leveling may be required during installation
- Periodically check all connections to insure nothing needs retightening



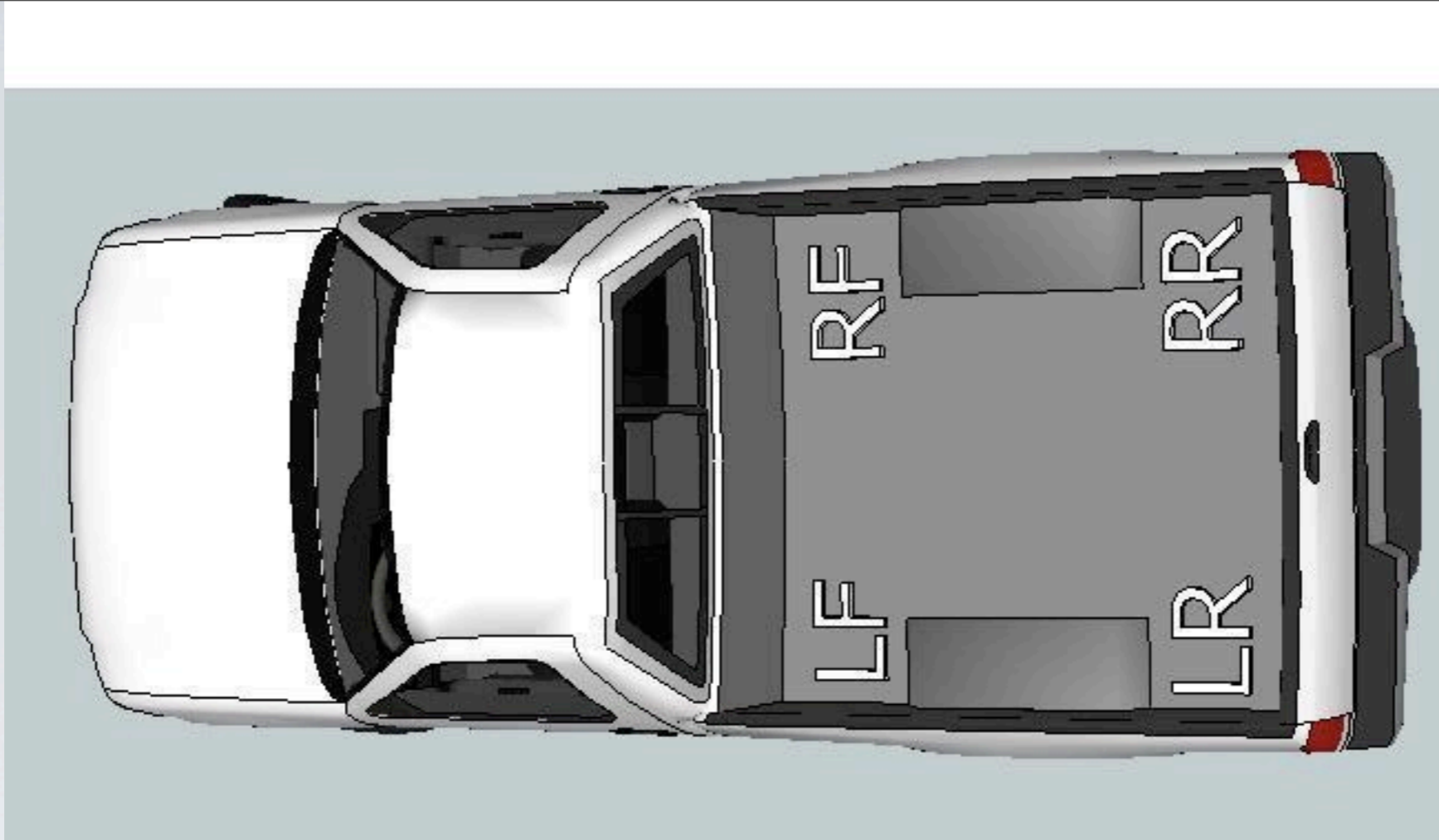
# PARTS INCLUDED - LEGEND PAGE 4

- A optional air line hose
- B Control Box
- C Optional Key Fob, requires additional hardware
- D Upper Bracket for LR (pre install)
- E Wiring Kit for 12 volt power line to battery
- F Air Line Kit Left
- G Air Line Kit Center
- H Air Line Kit Right
- I Air Tank
- J Air Pump with Filter
- K RR Ram Bracket Assembly
- L LF Ram Bracket Assembly
- M RF Ram Bracket Assembly

•PLEASE NOTE HOW EACH RAM HAS AN UPPER, MIDDLE, FOOTER BRACKETS. THESE WILL BE REFERRED TO IN THE INSTALLATION.



# TOOLS THAT WILL BE NEEDED



Caution: For proper install each ram bracket combination is labeled with its location. Improper placement will result in a faulty installation. Refer to labels on brackets.

- RR = RIGHT REAR
- RF = RIGHT FRONT
- LR = LEFT REAR
- LF = LEFT FRONT

# INSTALL PREPARATION

- Remove existing brackets that hold the topper to the bed.
- Make sure that the truck bed is clean and free of debris.
- Insure Topper is perfectly aligned to truck bed.
- Insure topper can manually be lifted in the corners.
- Locate truck bed wiring harness, including connection to cyclops, break light, and over head topper light. Disconnect for now, will be extending later.



- Do not throw out the styrofoam in the box, the corner pieces will be used during the installation.

# ELECTRICAL PREPARATION

RUNNING PROVIDED WIRE FROM THE BATTERY POSITIVE & ENGINE COMPARTMENT GROUND ALONG THE FRAME WIRE HARNESS TO THE LEFT REAR (LR) OF PICK UP BED



REFER TO PARTS DIAGRAM - ITEM E

- Run wire from engine compartment to back of pick up bed. Follow the wire harness along the frame.
- Starting in the engine compartment terminate the positive wire to the positive terminal of the battery. Terminate the ground wire to the a solid ground in the engine compartment.
- Secure wire with tie straps avoiding any hot parts of the engine. Secure with tie straps along frame rail all the way to the back of the truck. Insure to remove any slack in the wire.
- Fish wire near the LR location to be connected to the topper lift control box.



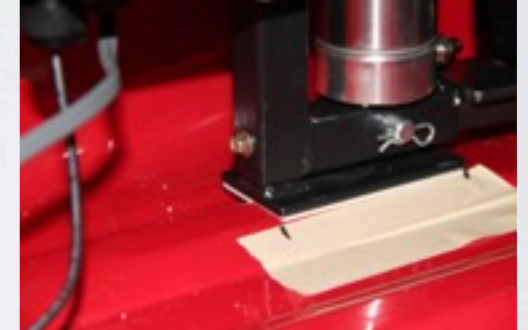
# BRACKET ALIGNMENT & INSTALLATION

- Position LR bracket with bed rail clamp attached to the lip of the bed rail DO NOT REMOVE FOOT BRACKET TAPE BACKING.
- Allow clearance for air pump and control box with tailgate closed.
- Lower the top mounting bracket down to the topper lip to insure proper alignment.
- Using your level make sure ram is level vertically front to back/side to side.
- Secure side mounting bracket with 19mm wrench/ratchet.
- Mark the position of the foot with tape or a marker, to secure in this position later.(see appendix B if you have a bedliner or your need to reposition the foot”
- Slide foot bracket up to remove tape backing, clean under mounting surface, and secure
- Position top bracket on the topper lip, to be drilled later.
- Mark the center of the top bracket hole on the topper lip.
- Measure from the foot bracket to the edge of the bed. Save this measurement to be used with RR bracket. Note RR bracket foot.





- Position RR foot bracket in the same distance as the LR foot bracket from the tailgate (measurement from LR previously).
- Using your level make sure ram is level vertically front to back/side to side.
- Secure side mounting bracket with 19mm wrench/ratchet.
- Mark the position of the foot with tape or a marker, to secure in this position later.(see appendix B if you have a bed liner or need to reposition the foot)
- Slide foot bracket up to remove tape backing, clean under mounting surface, and secure.
- Mark the top bracket of the hole into the topper lip, to be drilled later.
- Repeat for LF & RF, MAKE SURE YOU MARK AND LEVEL BRACKETS! MAKE SURE TO MARK THE UPPER BRACKET CENTER OF THE HOLE TO BE DRILLED LATER. Position brackets LF & RF as close to the corner as the topper will allow, BUT LF & RF MUST BE THE SAME DISTANCE FROM THE CORNER ON EACH SIDE!!!!



RF



LF

10

# PREPARE & DRILL HOLES IN TOPPER LIP

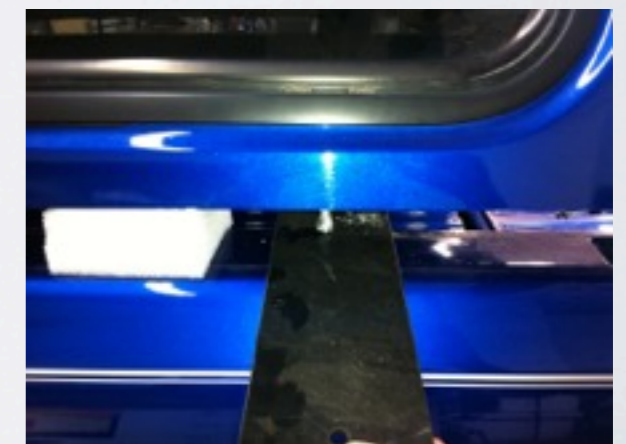
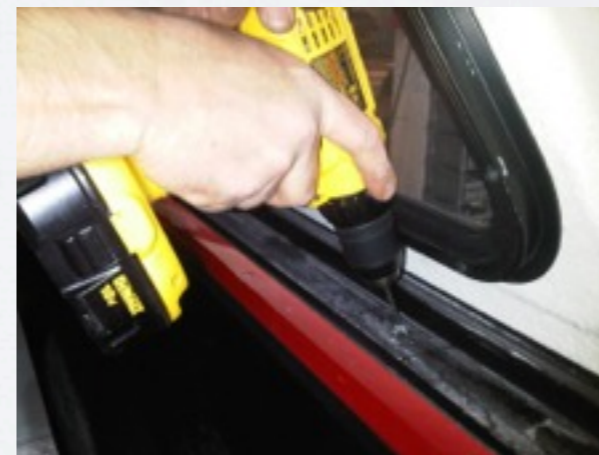
THIS WILL ALLOW THE ATTACHMENT OF UPPER BRACKET TO THE TOPPER



- Twist top brackets LF, RF, LR & RR by removing one bolt to clear the area for drilling.
- Lift each corner of the topper manually and insert styrofoam blocks in line with brackets included in shipping box. MAKE SURE TOPPER IS ALIGNED TO TRUCK BED.



- Starting with RR drill a pilot hole using a 1/4 bit, than drill final hole with 1/2 bit ( warning: Do Not Let Bit Slide and Protect Truck Bedrail From Drill Bit). If available use a 90 degree drill.
- Repeat for LF, RF & LR



# SECURING TOP BRACKET

- Twist the top bracket back into position on each assembly RR, LR, LF & LR.
- Lower Upper Bracket to align with the drilled hole in the topper. Insert Bracket with welded bolt from the bottom of the hole through the Upper Bracket slot and apply nut (Do not tighten completely).cs
- REPEAT for RF, LF and RF
- Nuts will be tightened in the topper alignment section.

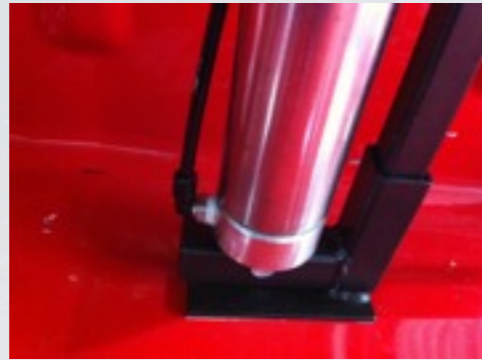


Ram bracket not shown intentionally

# AIR LINE INSTALLATION



A



B



C



D



E

- REFER TO APPENDIX A FOR THE SCHEMATIC DIAGRAM
- Three bags provided are labeled right, center, left where left is the pump side. The lines are pre cut, you may have to trim the length. Look for colored tape to match up where the lines connect.
- Picture A - When connecting lines make sure the end is cut straight using a razor blade. When inserting line wet the tip first. To remove the line push down on circular end of connector and pull out line.
- Picture B/C/D(right bag) - Starting in corner RR connect line to the ram. Fish line along and under bedrail securing with adhesive fastners provided. Insert other end into T in the corner by RF shown in picture C. Run a line from this T connector to RF. In the third hole of T connector run a line to the splitter T shown picture D above. Position in the center as shown in D.
- Picture D/E(center bag) - From the double end of the T connector shown in picture D run a line to the T connector by LF in the corner. In the second hole of this T connector in picture D run a line all the way to the back of the control box. Note: Line should already be connected and spooled to box for you.
- Picture D/E(left bag) - Now finish in corner LF from the corner T connector by LF run a line to LF ram. Run the other T connector hole to LR ram.

# TOPPER ALIGNMENT

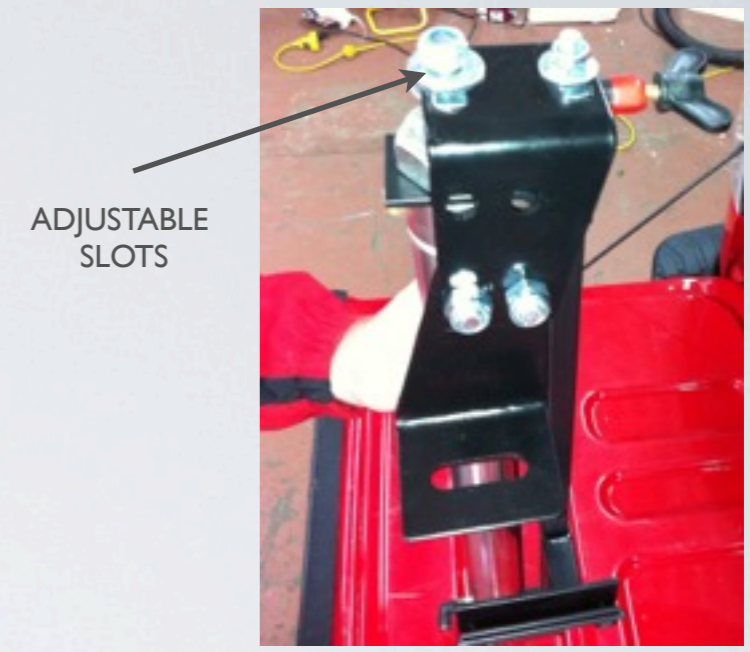
ADJUST THE UPPER BRACKET TO INSURE THE PISTON ROD IS STRAIGHT VERTICALLY



A



B



C

- Make sure the topper is square and aligned with the truck box rails and back to front.
- Once is squared and aligned you can secure the top bracket nuts.
- For further adjustment see picture A, B, & C.
- Picture A - This shows the upper bracket with adjustable slots on top.
- Picture B - These two rods should as close to level as possible for best operation of lift.

# FINAL ELECTRICAL

## CONNECTING CONTROL BOX, TOPPER LIGHT & CYCLOPS BRAKE LIGHT

- Using electrical couplers & tie straps provided connect the wire fed from the battery through the bed wall to the connector on the back of the control box.
- WHITE = BATTERY GROUND
- BROWN = BATTERY POSITIVE
- With the TOPPER LIFT in the up position extend the wires that control the inside topper light & cyclops break light.



CONTROL BOX



TYPICAL WIRING HARNESS FOR TOPPER LIGHT & BRAKE LIGHT

# PICTURE OF COMPLETE INSTALLATION



## OPERATION



A



B



C



D

- Picture A - On/Off switch. Please note: The pump will shut off automatically when the tank pressure is met. It is o.k. to leave the power on.
- Power on the system to confirm the pump runs, the tank fills, and there are no leaks in the airlines. Air line leaks should be noticeable with sound and will cause the pump to over run.
- Picture B - Raise and lower topper - using the up/down switch, hold to raise or lower. NOTE: AFTER INSTALLATION THE RAMS CAN BE STIFF. OPERATION WILL SMOOTH OUT AS THE SYSTEM BREAKS IN BY RAISING AND LOWERING.
- Picture C/D - For safety in picture C there is a pressure release valve on side of tank. In picture D if required the tank air can be released manually (bottom of tank). This should be done periodically to drain any moisture in the system. NOTE: The air compressor will automatically shut off if the compressor overheats due to usage. It automatically run when power is reset.

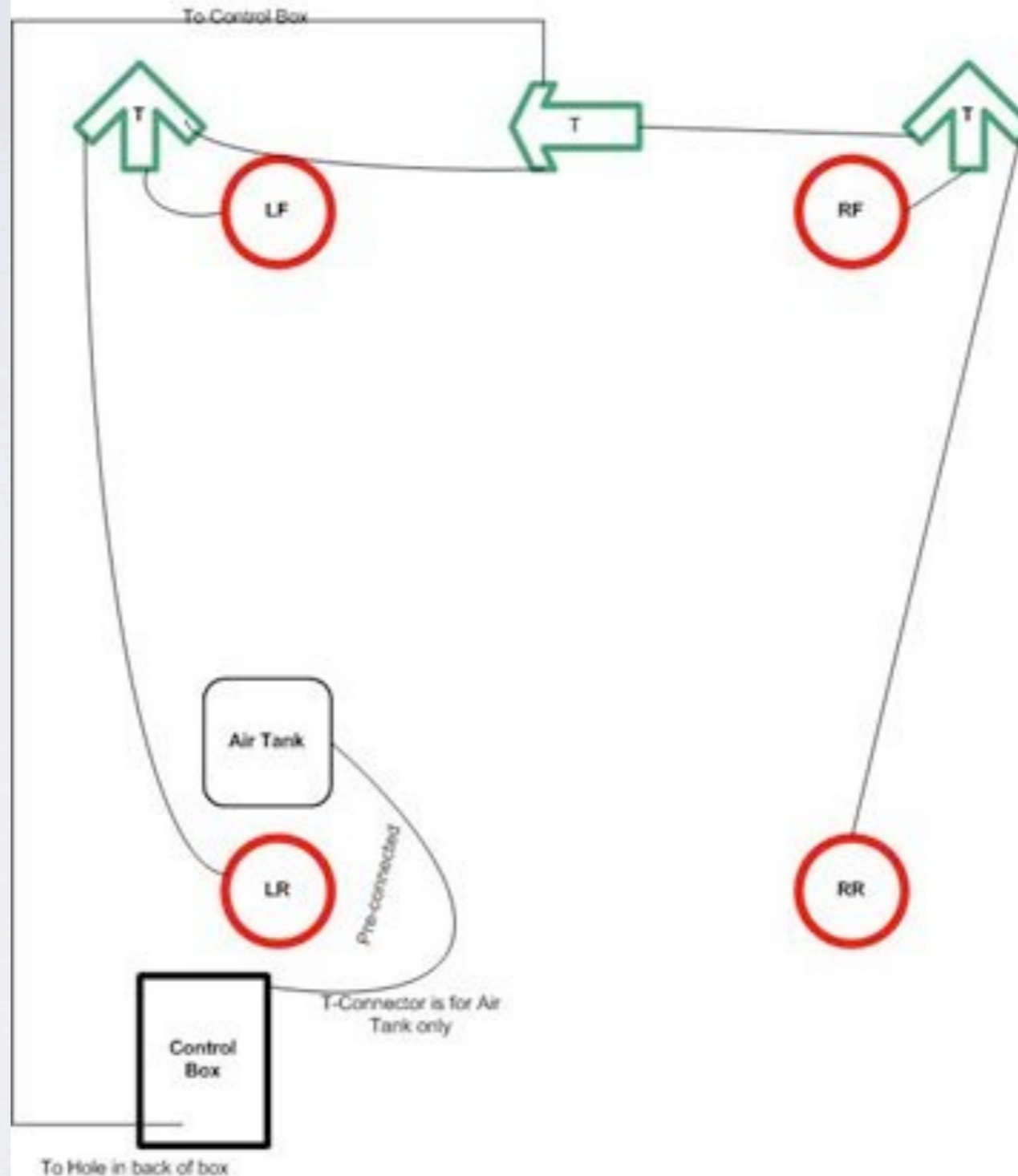
# OPTIONAL KEY FOB



Hold up and down button for operation. Note: Requires additional hardware from EZLift Systems dealer.

# APPENDIX A

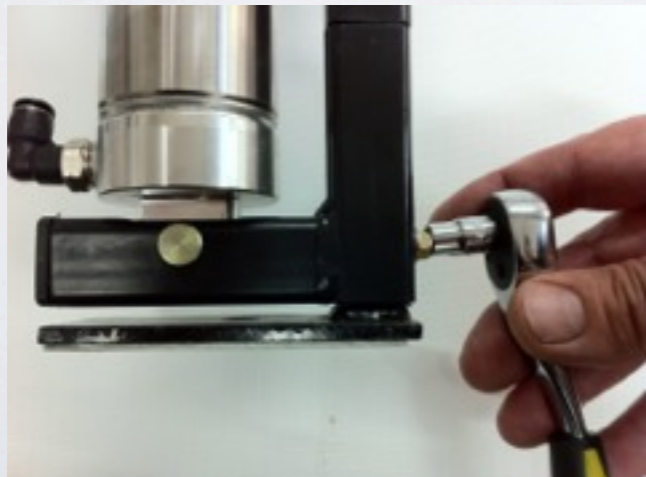
## AIR LINE SCHEMATIC DIAGRAM



# APPENDIX B

## BEDLINERS & SWIVELING THE FOOT BRACKET

- If you have a plastic bed liner install the footer over the liner and secure the foot with a self tapping screw.
- If you need to swivel the foot loosen the lock screw on the side of the foot and separate foot bracket as shown. You will need to slide the foot off the bracket and put back on in the desired position.



# LIMITED WARRANTY

EZLift Systems warrants this product, when properly installed and under normal conditions of use, to be free from defects in the workmanship and materials for a period of one year from provided date of purchase. To receive a replacement or for repairs, contact EZLift Systems from whom it was purchased along with proof of purchase.

Returns should be made within the time period and conditions of the retailer's policy for exchanges. If you are unable to contact your dealer, contact EZLift Systems directly for repairs or replacement at your option.

## **PLEASE NOTE:**

**THIS WARRANTY COVERS PRODUCT DEFECTS ONLY; IT DOES NOT COVER INCIDENTAL OR CONSEQUENTIAL DAMAGES AS RESULT OF MISUSE**