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ALR POWERLIFT V2 INSTALLATION INSTRUCTIONS

SKU: 210828, 210829



IMPORTANT

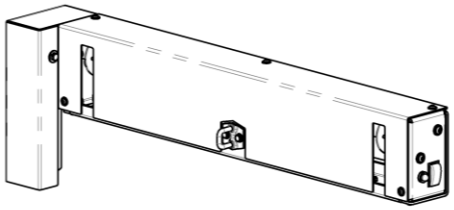
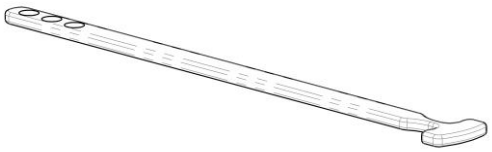
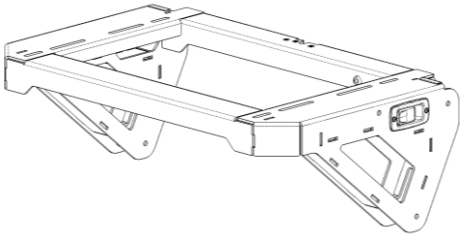
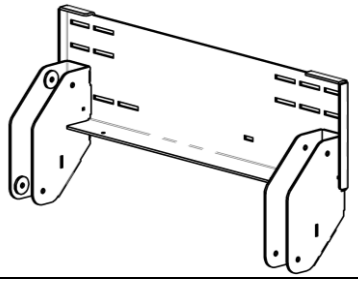
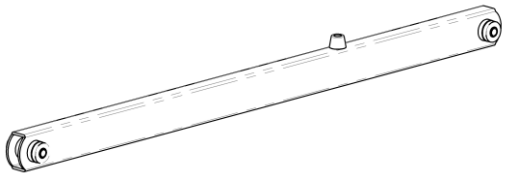
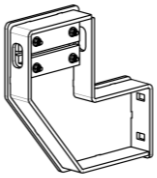
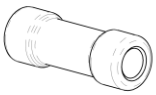
- Install vehicle specific mounting before proceeding with these instructions.
- Weight Capacity
  - Upper Tray – 175 lbs
  - Lower Tray – 100 lbs

Required Tools

- Ratchet with extension, sockets, and wrenches. Sizes: 3/8”, 7/16”, 9/16”
- Hex Bit. Size: 1/8”
- Torx. Size: T27

HARDWARE (600002)		
PART NO.	***QTY.***	***DESCRIPTION***
70383	10	FLNGD HHCS, 3/8-16 X 3 1/4, GR 8, BLK PHOS
70384	10	FLNGD HEX NUT, 3/8-16, GR 8, BLK PHOS
70750	1	THREAD LOCKER, BLUE

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ADDITIONAL PARTS			
PART NO.	**DESCRIPTION**	**QTY.**	**PICTURE**
352029 OR 352030	POWERBOX, DEWALT ADAPTER OR POWERBOX, MILWAUKEE ADAPTER	1	
352019	PULL HANDLE ANODIZED	1	
352020	UPPER TRAY	1	
352022	LOWER TRAY	1	
352023	CONTROL ARM	4	
352025	HANDLE BRACKET	1	
301949	STRAP RETAINER	2	

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PowerLift V2 Install

NOTE: Install vehicle specific mounting before proceeding with these instructions.

1. Install the CONTROL ARMS [352023] into the LOWER TRAY [352022]. Ensure bumpers are oriented facing the other arm in the clevis and alternate bumper positions. Use (4) 3/8" flange bolts [70383] and nuts [70384]. Apply thread locker to the threads and torque to 30 ft-lbs. **See Figure 1 and Figure 2.**

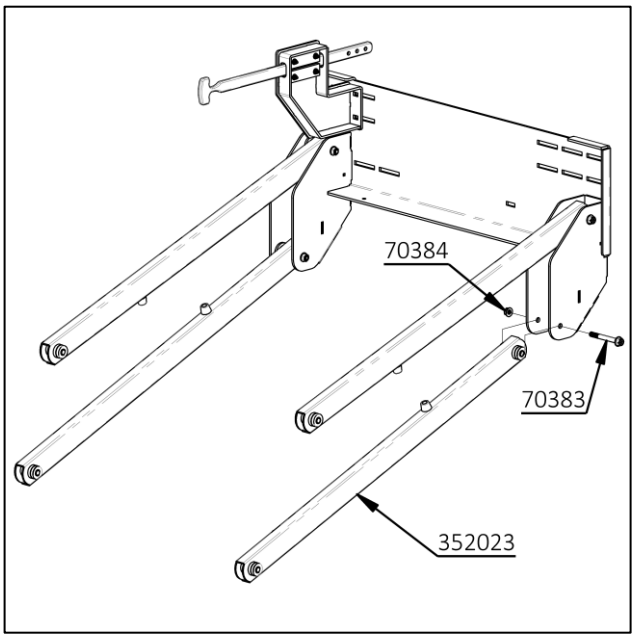


Figure 1: Control Arm Installation

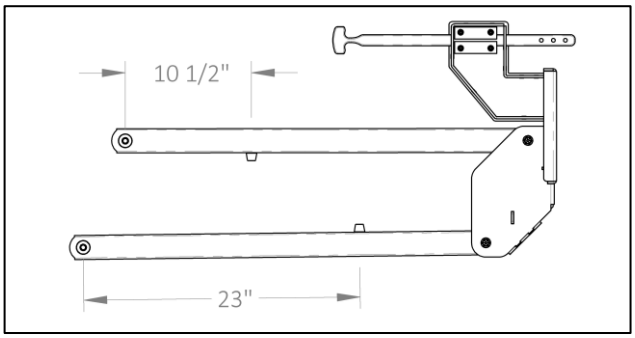


Figure 2: Center of Bushing to Center of Bumper Distances

2. To install the UPPER TRAY [352020], locate the arms into the clevises of the UPPER TRAY. Install the (4) 3/8" flange bolts [70383] and nuts [70384], apply thread locker to the threads and torque to 30 ft-lbs. **See Figure 3.**

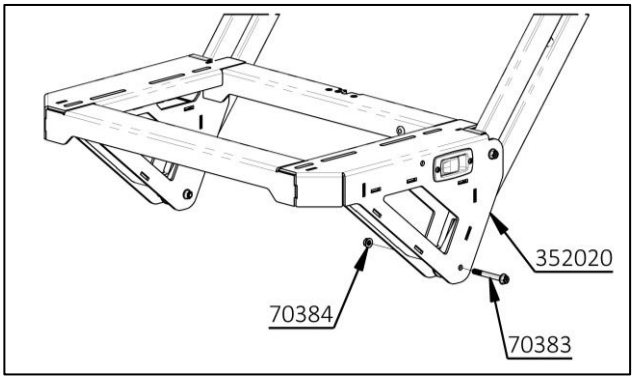


Figure 3: Installing the Upper Tray

3. Finalize the position of the POWERBOX [352010] using the UPPER TRAY [352020]. Carefully latch the UPPER TRAY into the POWERBOX. Adjust the POWERBOX so that the latch in the UPPER TRAY is centered on the striker in the POWERBOX and not touching the UPPER TRAY. Torque all 5/16" hardware in the POWERBOX to the torque specifications. **See Figure 4.**
    a. NOTE: Additional adjustment of the striker can be made by loosening the 1/4 HHCS using a 7/16 wrench.

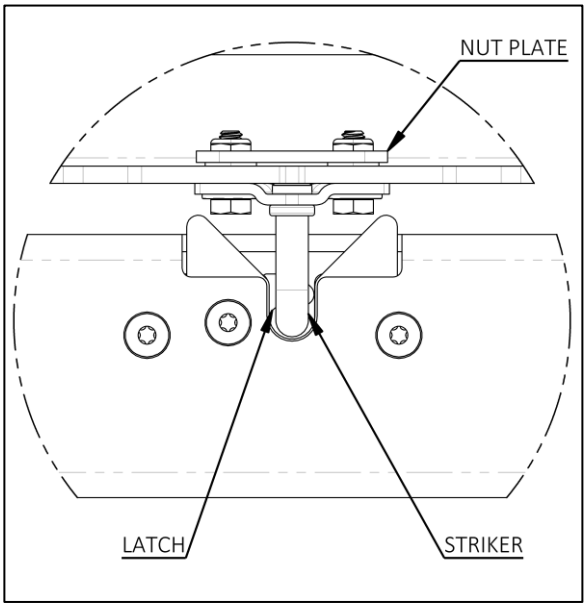


Figure 4: Locating PowerBox, Top View

4. On the right side, feed the STRAP over the CONTROL ARMS into the opening on UPPER TRAY and pass over the release handle/cable. Then on the farthest loop of the STRAP, insert the STRAP RETAINER [301949] through the loop using the cutouts on the inside of the UPPER TRAY.
    a. More loops provided for future adjustment in leveling as needed.
5. Fasten the STRAP RETAINER with a 3/8" flange bolt [70383] and nut [70384]. Apply thread locker on the threads. Torque to 30 ft-lbs. Repeat on the left side. **See Figure 5 and Figure 6.**

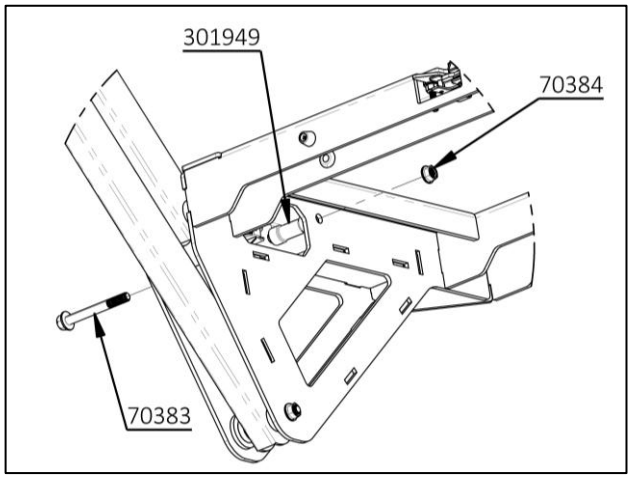


Figure 5: Installing Strap and Strap Retainer

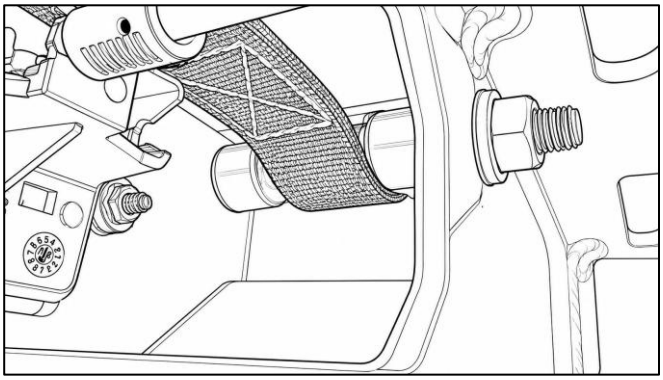


Figure 6: Installed Strap

6. Reinstall the POWERBOX cover using the provided hardware removed at the beginning of the vehicle specific installation using a T27. Torque to 60 in-lbs. **See Figure 7.**

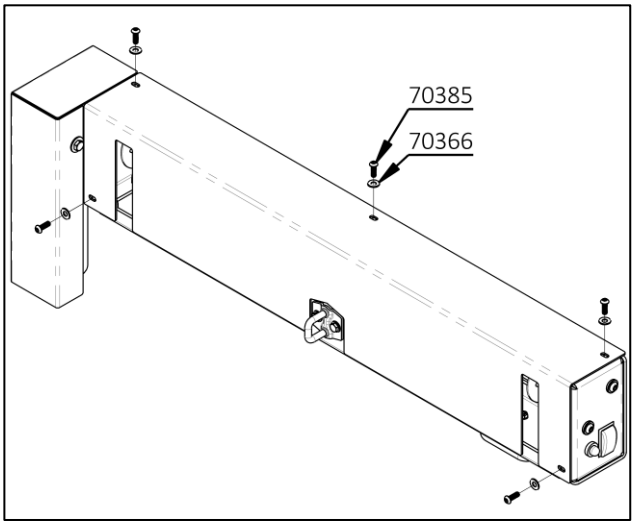


Figure 7: Cover Installation

NOTE: When installing an ALB 185, ensure the strap or bolts do not interfere with the POWERLIFT before finalizing its location.

WARNING

1. Keep clear of the CONTROL ARMS and UPPER TRAY during operation.
2. The max weight on the UPPER TRAY is 175 lbs and on the LOWER TRAY it is 100 lbs.
3. Verify the UPPER TRAY is locked into place before driving.

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How to Operate

1. Each time a battery is installed into the adapter, press the button on the left side of the adapter, once the button is green the POWERLIFT will be operational.
2. Press the rocker switch up ▲ to move the UPPER TRAY into the fully upright and latched position. Immediately stop pressing up ▲ when the latch engages
3. To move the UPPER TRAY down, pull the release latch and press the rocker switch down ▼ at the same time.
    a. NOTE: if it does not move after 2 seconds, do not continue to press the rocker switch until it has been released.
4. At the bottom of the travel, release the rocker switch down ▼.

NOTE: The adapter has a voltage and amperage detector and will turn off once your battery is running out of power or if the up ▲ on the rocker switch is held too long.

TORQUE SPECIFICATIONS			
SIZE (SAE)	18-8 SS	GRADE 5 ZINC PLATED	GRADE 8 ZINC PLATED
6-32 (IN-LBS)	9.6	15.3	21.5
8-32 (IN-LBS)	19.8	29.5	41.7
10-24 (IN-LBS)	22.8	47.0	62.9
10-32 (IN-LBS)	31.7	48.0	68.0
1/4-20 (IN-LBS)	75.2	91	129
5/16-18 (IN-LBS)	132	188	265
3/8-16 (FT-LBS)	20	28	39
7/16-14 (FT-LBS)	31	44	63
1/2-13 (FT-LBS)	43	68	96
9/16-12 (FT-LBS)	57	109	226
SIZE (Metric)	18-8 SS	CLASS 8.8 ZINC PLATED	CLASS 10.9 ZINC PLATED
M5 X 0.8 (IN-LBS)	38.4	46.8	66.0
M6 X 1.0 (IN-LBS)	57.6	79.2	112.8
M8 X 1.25 (IN-LBS)	99.6	192.0	274.8
M10 X 1.5 (FT-LBS)	13.8	31.6	45.2
M12 X 1.75 (FT-LBS)	21.0	55.1	78.9
M14 X 2.0 (FT-LBS)	29.4	88.1	126.1

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