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ALR POWERLIFT V2 SPRINTER INSTALLATION INSTRUCTIONS

SKU: 210825



IMPORTANT

- This mounting kit and instructions work with 210760 – ALUMINESS SPRINTER BASE UNIT. **See Figure 1.**
- APPLY ANTI-SEIZE BEFORE ASSEMBLY
    - Stainless steel threads can seize during tightening. Apply anti-seize lubricant to all screw threads before assembly to prevent binding.

Required Tools

- Ratchet with extension, sockets, and wrenches. Sizes: 1/2”, 7/16”
- Hex Key. Sizes: 5/32”
- Torx Bit. Sizes: T27

HARDWARE (600004)		
PART NO.	***QTY.***	***DESCRIPTION***
70246	1	ANTI-SEIZE
70277	4	CARRIAGE BOLT, 5/16-18 x 1.5, BO
70346	24	HEX NUT, NYLON LOCK, 5/16-18, SS, BO
70365	3	HEX NUT, NYLON LOCK, 1/4-20, SS, BO
70366	4	FW, 1/4, X .63 X .06, SS, BO
70369	20	CARRIAGE BOLT, 5/16-18 x 1, SS, BO
70406	1	HHCS, 1/4-20 X 2.25, SS
70448	27	FW, 5/16 X 3/4 X 1/8, SS, BO
70498	2	FHCS, 1/4-20 X 1.0, SS, BO

MISC. PARTS LIST		
PART NO.	***QTY.***	***DESCRIPTION***
401096	10”	FOAM STRIP, 2 X 1/8, ADHESIVE BACK

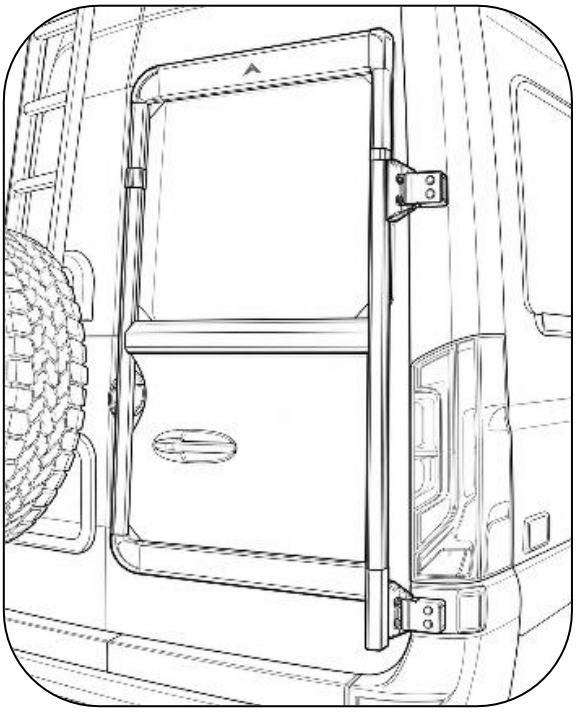
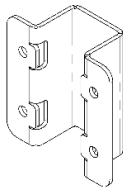
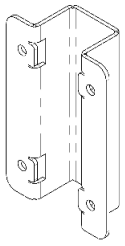
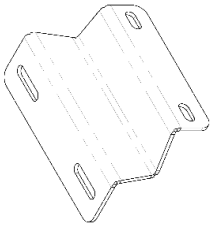
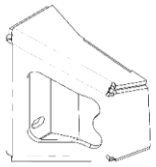
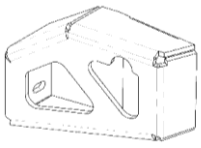
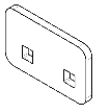
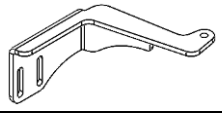


Figure 1: Compatible Base Unit

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PARTS LIST			
PART NO.	***DESCRIPTION***	**QTY.**	***PICTURE***
351567	MEDIUM MOUNTING BRACKET	2	
351568	LARGE MOUNTING BRACKET	1	
351569	UPPER MOUNTING BRACKET	1	
351570	UPPER HINGE BRACKET, HEAVY DUTY	1	
351571	LOWER HINGE BRACKET, HEAVY DUTY	1	
351572	UPPER HINGE RETAINING PLATE	1	
351573	LOWER HINGE RETAINING PLATE	1	
351982	DOOR HANDLE PLATE	1	
352032	SPRINTER HANDLE ADAPTER	1	
400754	SPACER, .75 X .257 X 1.125, ALUM	1	

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Base Unit Install

1. Cut foam [401096] into a 4” and a 4.5” strip.
2. Install the 4” section onto the LOWER HINGE BRACKET, HEAVY DUTY [351571] and the 4.5” section onto the UPPER HINGE BRACKET, HEAVY DUTY [351570]. Trim excess and cut out holes for the bolts. **See Figure 2.**

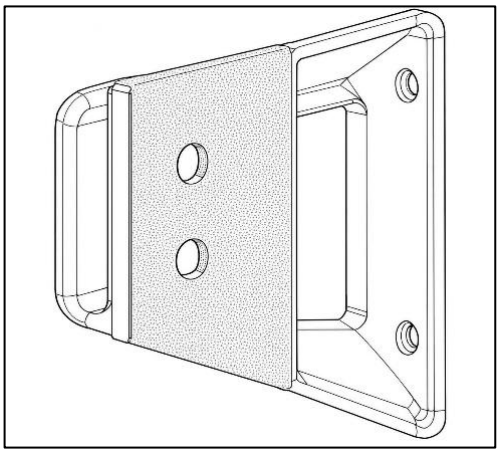


Figure 2: Lower Hinge Bracket, Foam Install

3. Insert the (4) 5/16 carriage bolts [70277] into the UPPER HINGE RETAINING PLATE [351572] and LOWER HINGE RETAINING PLATE [351573].

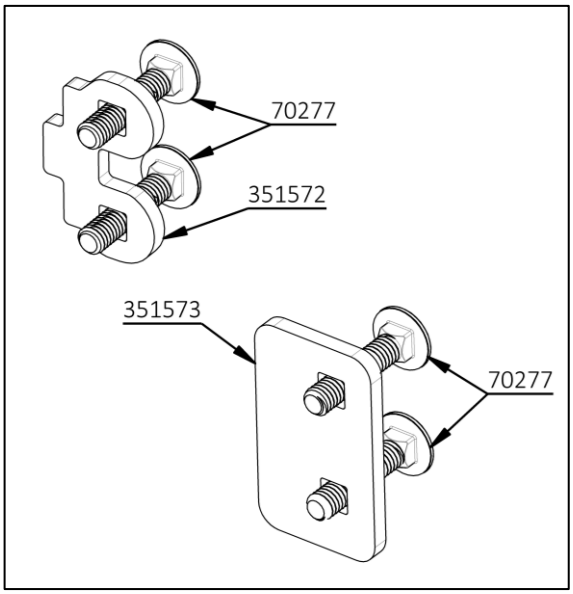


Figure 3: Retaining Plates

4. Insert the UPPER HINGE RETAINING PLATE [351572] with bolts into the upper door hinge, with the bolt threads facing the exterior of the vehicle. **See Figure 4, view from inside vehicle.**

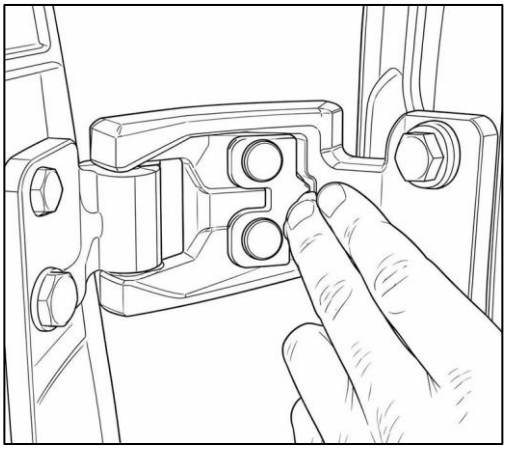


Figure 4: Upper Hinge Retaining Plate Orientation

5. Fasten the UPPER HINGE BRACKET, HEAVY DUTY [351570] onto the upper hinge on the van using (2) 5/16 washers [70448] and locknuts [70346]. **See Figure 5**.

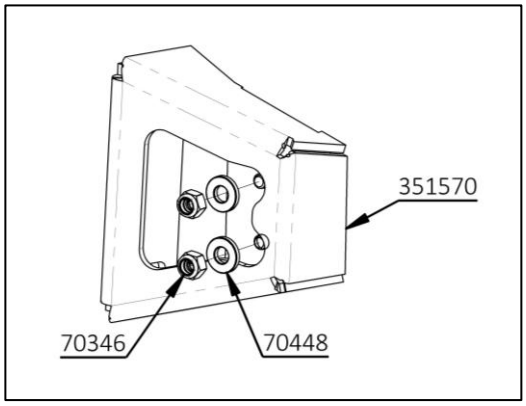


Figure 5: Upper Hinge Bracket Install

6. Insert the LOWER HINGE RETAINING PLATE [351573] with bolts into the lower door hinge, with the bolt threads facing the exterior of the vehicle. **See Figure 6, view from inside vehicle.**

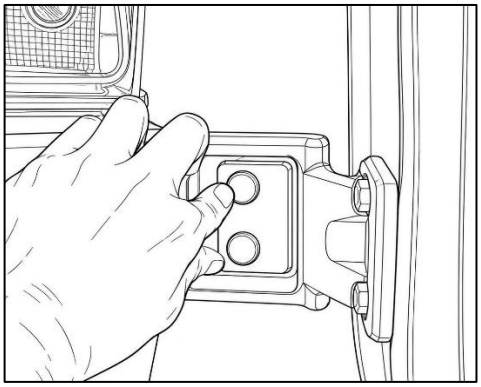


Figure 6: Lower Hinge Retaining Plate Orientation

7. Fasten the LOWER HINGE BRACKET, HEAVY DUTY [351571] onto the lower hinge on the van using (2) 5/16 washers [70448] and locknuts [70346]. **See Figure 7**.

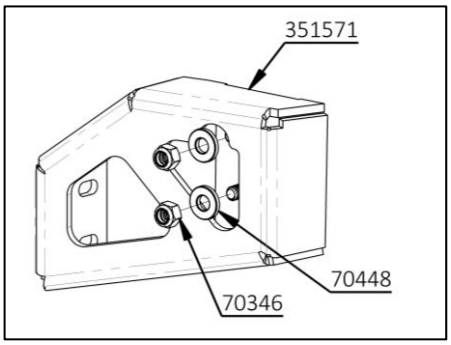


Figure 7: Lower Hinge Bracket Install

8. If applicable, install the protective tape for the DOOR SEAM BRACKET and the DOOR SEAM BRACKET according to the ALUMINESS BASE UNIT installation instructions.

9. Fasten the UPPER HINGE BRACKET, HEAVY DUTY [351570] and the UPPER MOUNTING BRACKET [351569] to the ALUMINESS BASE UNIT, using (2) 5/16 carriage bolts [70369], washers [70448], and locknuts [70346]. **See Figure 8.**

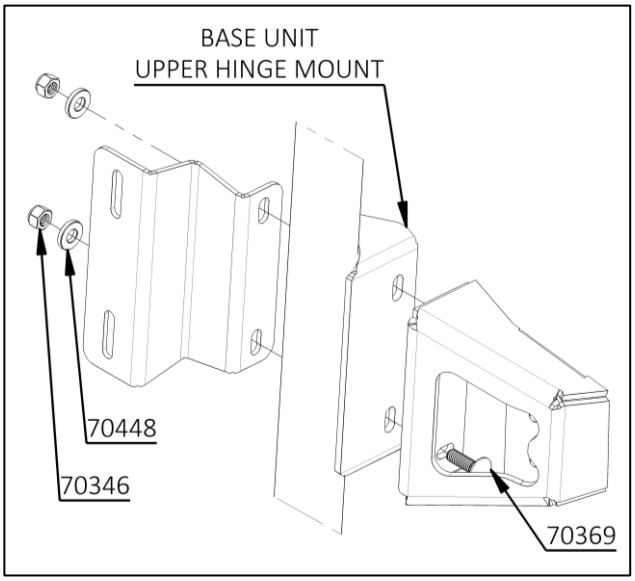


Figure 8: Base Unit, Upper Hinge

10. Fasten the LOWER HINGE BRACKET, HEAVY DUTY [351571] to the ALUMINESS BASE UNIT using (2) 5/16 carriage bolts [70369], washers [70448], and locknuts [70346]. **See Figure 9.**

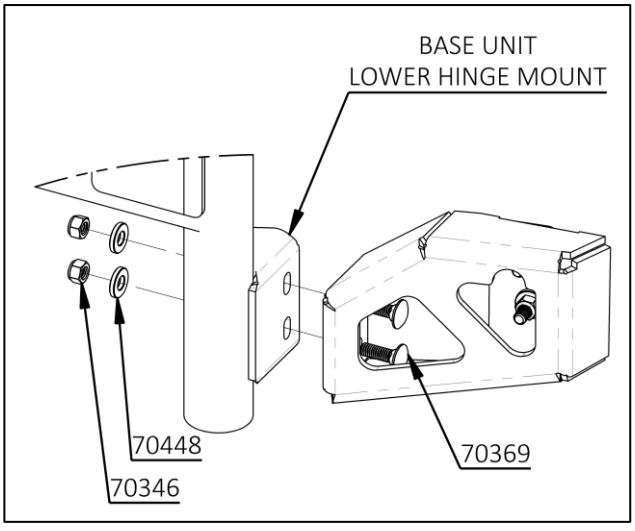


Figure 9: Base Unit, Lower Hinge

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11. If applicable, install the ALUMINESS BASE UNIT, to the DOOR SEAM BRACKET and EMBLEM REPLACEMENT as shown in the ALUMINESS BASE UNIT installation instructions.

PowerLift V2 Install

12. Loosely fasten the LOWER TRAY [352022] onto the ALUMINESS BASE UNIT using (10) 5/16 carriage bolts [70369], washers [70448], and locknuts [70346]. **See Figure 10.**
    a. First attach the (2) carriage bolts to the bottom slots and secure them to the ALUMINESS BASE UNIT.
    b. Then attach the outer MEDIUM MOUNTING BRACKET [351567].
    c. Now fasten the inner MEDIUM MOUNTING BRACKET [351567] and HANDLE BRACKET [352025] to the ALUMINESS BASE UNIT.

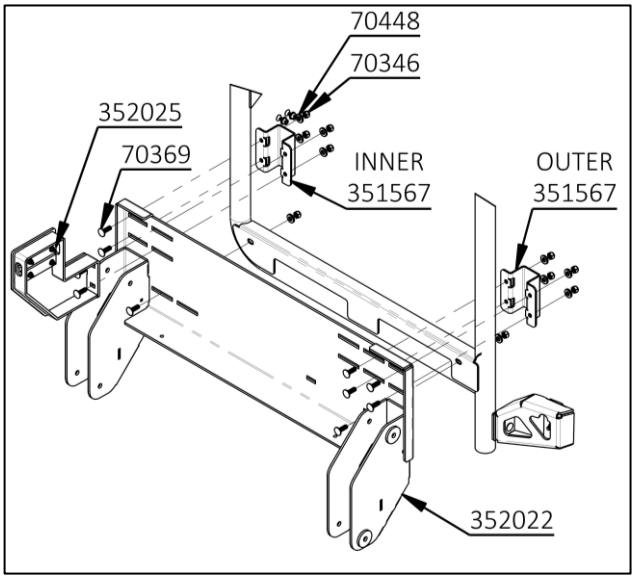


Figure 10: Lower Tray Installation

13. Remove the POWERBOX COVER from the POWERBOX using a T27 on (5) 1/4 BHCS. **See Figure 11.**

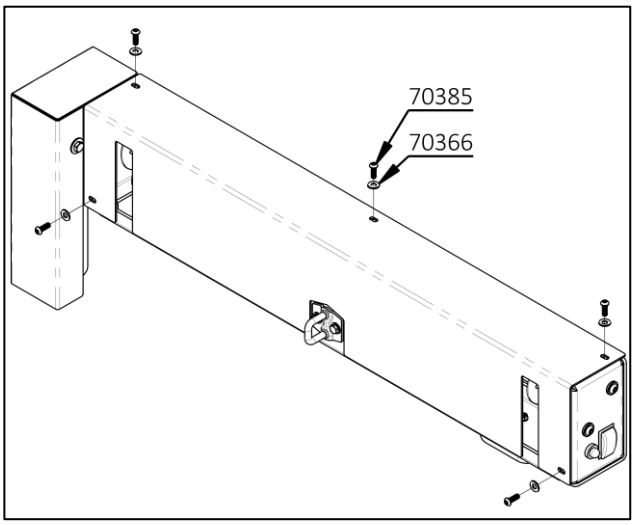


Figure 11: PowerBox Cover Removal

14. Loosely fasten the POWERBOX onto the UPPER MOUNTING BRACKET [351569] and the LARGE MOUNTING BRACKET [351568] using (6) 5/16 carriage bolts [70369], washers [70448], and locknuts [70346]. **See Figure 12.**

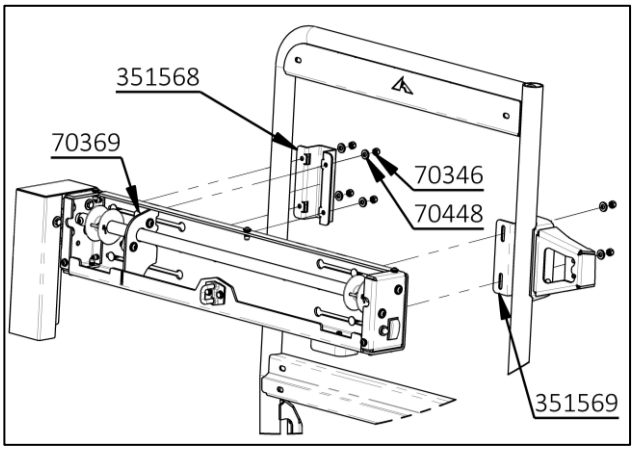


Figure 12: PowerBox Installation

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15. Assemble the HANDLE ADAPTER, using the SPRINTER HANDLE ADAPTER [350268], DOOR HANDLE PLATE [351982], SPACER [400754], 1/4 hex bolt [70406], (2) washers [70366], (3) 5/16 washers [70448], and a locknut [70365]. **See Figure 13.**

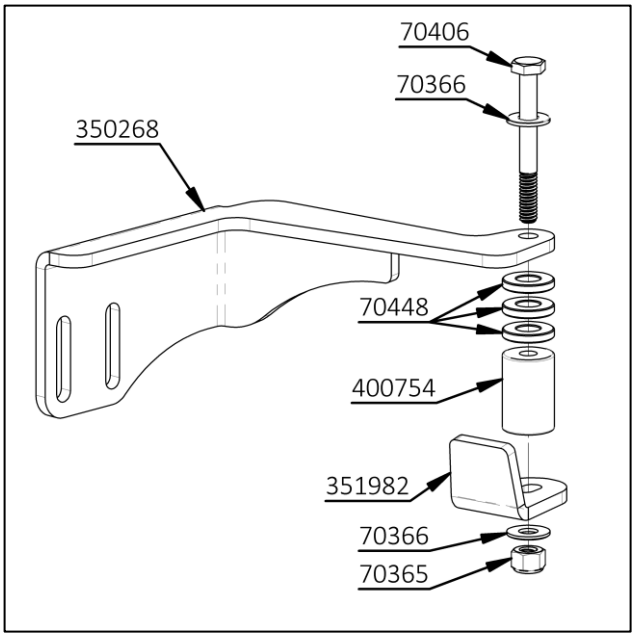


Figure 13: Handle Assembly

16. Install the PULL HANDLE [352019] through the handle slide and into the HANDLE ADAPTER assembly, fasten with (2) 1/4 bolts [70498], washers [70366], and locknuts [70365]. Position the PULL HANDLE so the countersinks face the left. **See Figure 14 and Figure 15.**

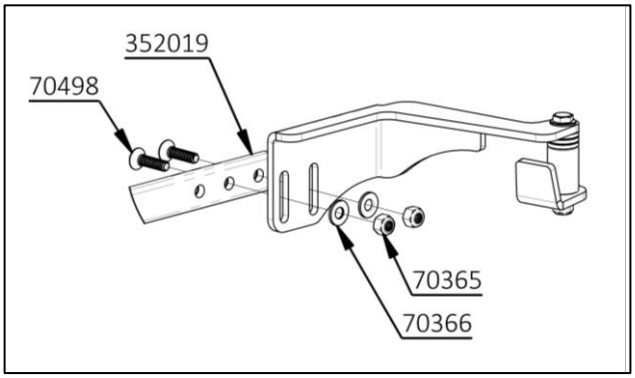


Figure 14: Handle Adapter Install

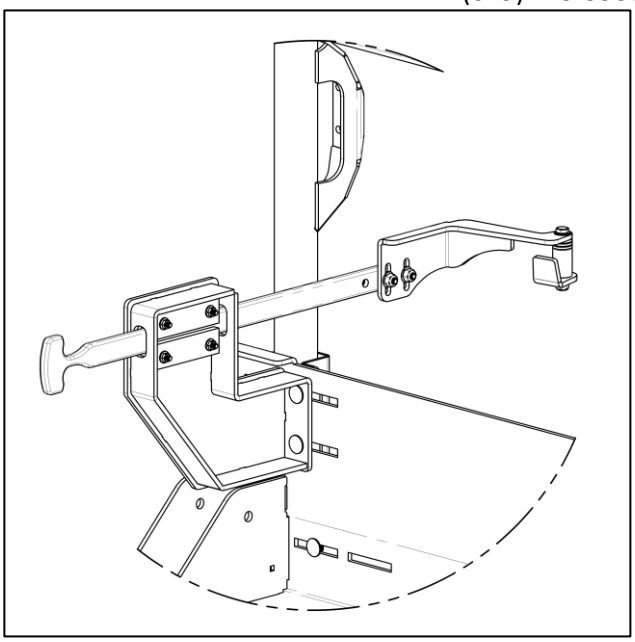


Figure 15: Pull Handle Installed

17. Position the LOWER TRAY and torque all hardware from Step 12 per the torque specifications. Leave the POWERBOX loose.
18. Follow the remaining instructions on the ALR POWERLIFT V2 installation instructions.

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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