Bestop Aluminess, LLC
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ALR POWERLIFT V2 SPRINTER OWL B2 INSTALLATION INSTRUCTIONS

SKU: 210827



IMPORTANT

- This mounting kit and instructions work with OWL B2 BIKE CARRIER. **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 (600008)		
PART NO.	***QTY.***	***DESCRIPTION***
70008	2	HEX NUT, NYLON LOCK, 1/4-20, SS
70009	4	FW, 1/4, X .63 X .06, SS
70060	2	BHCS 1/4-20 X 1.00 SST
70246	1	ANTI-SEIZE
70346	15	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	13	CARRIAGE BOLT, 5/16-18 x 1, SS, BO
70406	1	HHCS, 1/4-20 X 2.25, SS
70422	2	HHCS 5/16-18 X 1.00 SS BO
70448	20	FW, 5/16 X 3/4 X 1/8, SS, BO
70497	12	FHCS, 3/8-16 X 1.75, SS, BO
70498	2	FHCS, 1/4-20 X 1.0, SS, BO
70499	12	FLANGED HEX LOCKNUT, 3/8-16, 18-8, SS

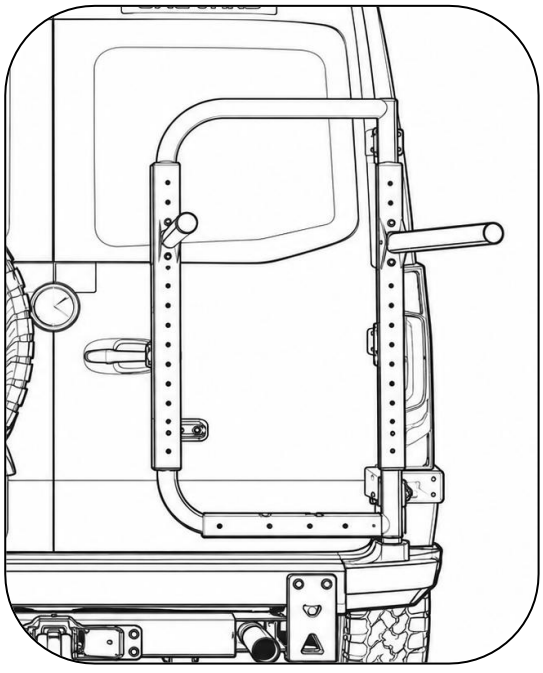
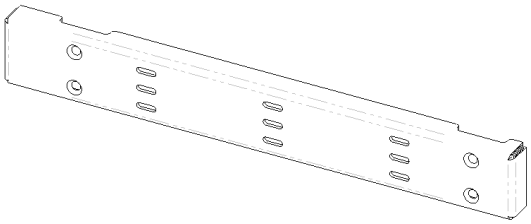
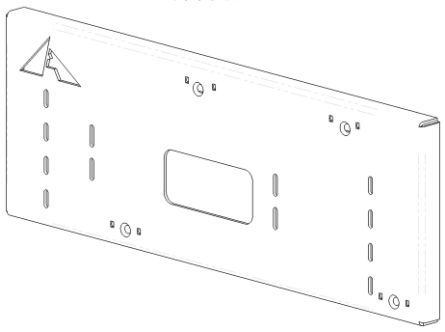
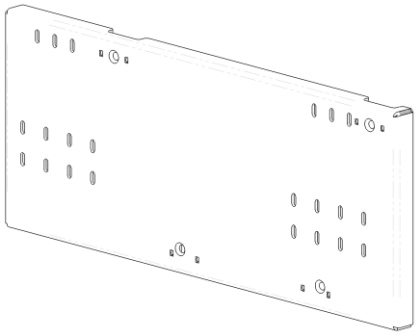
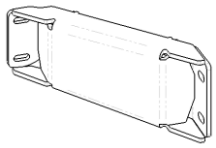
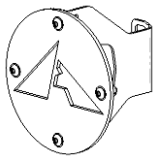
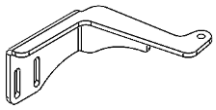


Figure 1: Compatible Base Unit

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PARTS LIST			
PART NO.	***DESCRIPTION***	**QTY.**	***PICTURE***
351699	MID MOUNTING PLATE	1	
351978	UPPER MOUNTING PLATE	1	
351979	LOWER MOUNTING PLATE	1	
351980	REINFORCE BRKT, OWL B2	1	
351982	DOOR HANDLE PLATE	1	
351996	ALUMINESS EMBLEM	1	
352032	SPRINTER HANDLE ADAPTER	1	
400754	SPACER, .75 X .257 X 1.125, ALUM	1	

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Adapter Install

1. With your Owl Base Unit already installed on your vehicle, remove all product from it.
2. Remove the OEM emblem from the passenger rear door.
3. Install the LOWER MOUNTING PLATE [351979] to the Owl Base Unit using (4) 3/8 FHCS [70497], and flanged locknuts [70499]. **See Figure 2.**

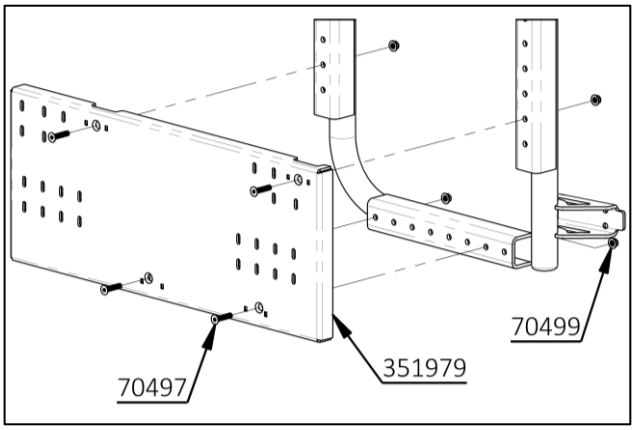


Figure 2: Lower Mounting Plate Install

4. Install the UPPER MOUNTING BRACKET [351978] to the Owl Base Unit using (4) 3/8 FHCS [70497] and flanged locknuts [70499], following the same process used previously. **See Figure 3**.

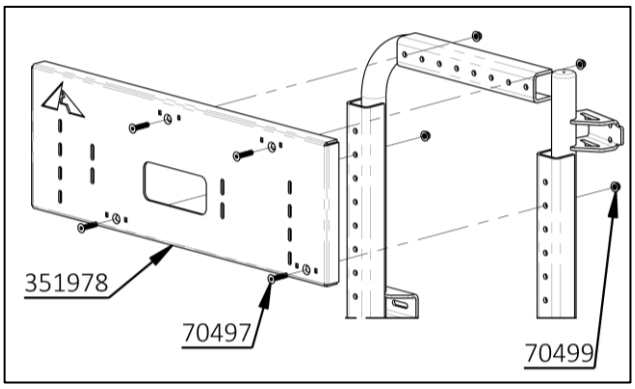


Figure 3: Upper Mounting Plate Install

5. Install the MID BRACKET [351699] to the Owl Base Unit using (4) 3/8 FHCS [70497], and flanged locknuts [70499]. **See Figure 4**.
    a. *Do not fully tighten the fasteners until the REINFORCEMENT BRACKET is installed.*

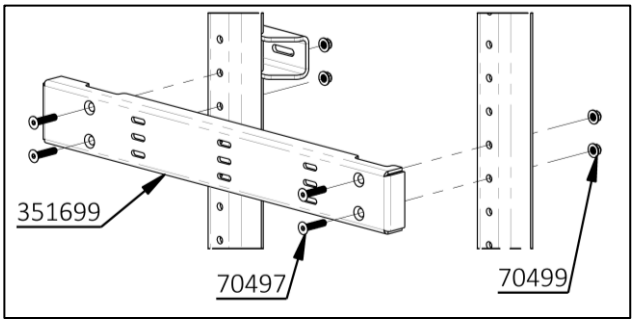


Figure 4: Mid Mounting Plate Install

6. Install the REINFORCEMENT BRACKET [351980] and the LOGO BRACKET [351996]. **See Figure 5**.
    a. Fasten to the MID BRACKET using (2) 5/16 HHCS [70422], locknuts [70346] and thick washers [70448].
    b. Fasten to the vehicle using (2) 1/4 BHCS [70060], locknuts [70008] and washers [70009].
    c. Install all fasteners before tightening any.

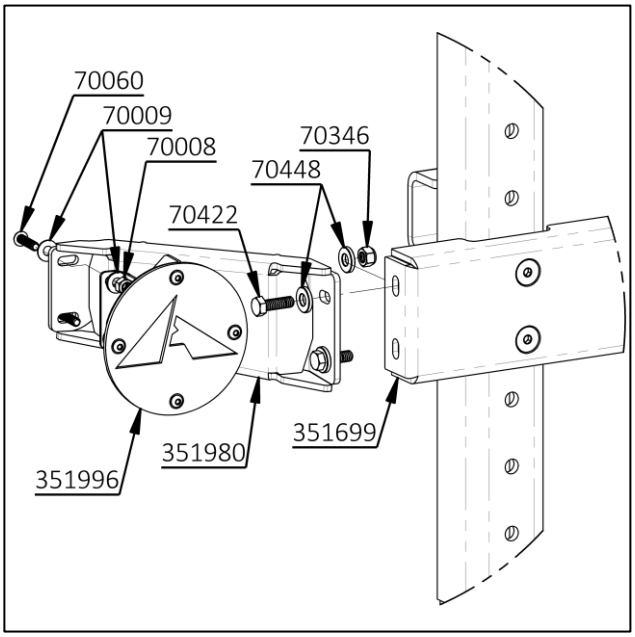


Figure 5: Reinforcement and Logo Bracket Install

7. Tighten fasteners in this order:
    a. MID BRACKET FHCS
    b. OEM door / REINFORCEMENT BRACKET BHCS
    c. REINFORCEMENT BRACKET HHCS

PowerLift V2 Install

8. Loosely fasten the LOWER TRAY [352022] onto the LOWER MOUNTING PLATE [351979] using (7) 5/16 carriage bolts [70369], washers [70448], and locknuts [70346]. **See Figure 6.**

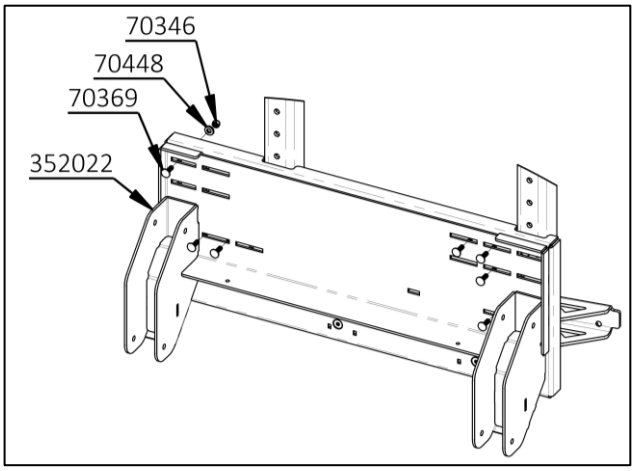


Figure 6: Lower Tray Installation

9. Remove the POWERBOX COVER from the POWERBOX using a T27 on (5) 1/4 BHCS. **See Figure 7.**

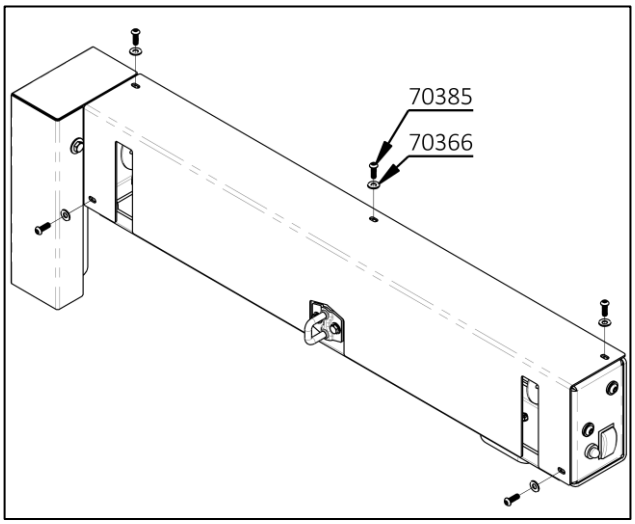


Figure 7: PowerBox Cover Removal

10. Loosely fasten the POWERBOX onto the UPPER MOUNTING PLATE [351978] using (4) 5/16 carriage bolts [70369], washers [70448], and locknuts [70346]. **See Figure 8.**

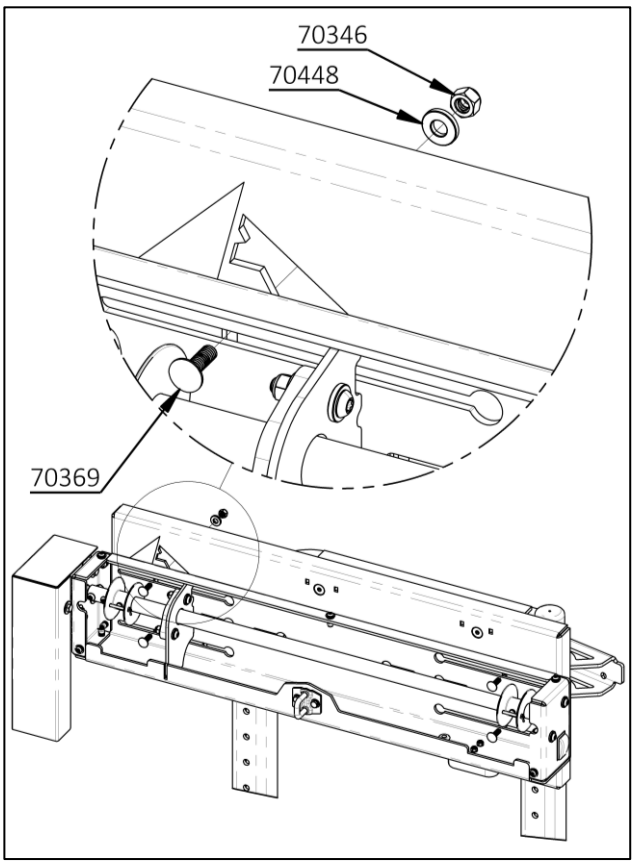


Figure 8: PowerBox Installation

11. Fasten the HANDLE BRACKET [352025] to the LOWER TRAY [352022] using (2) 5/16 carriage bolts [70369], washers [70448], and locknuts [70346]. **See Figure 9.**

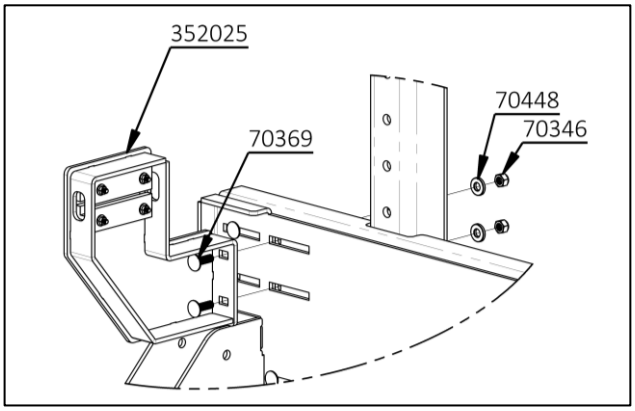


Figure 9: Handle Bracket Install

12. 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 10.**

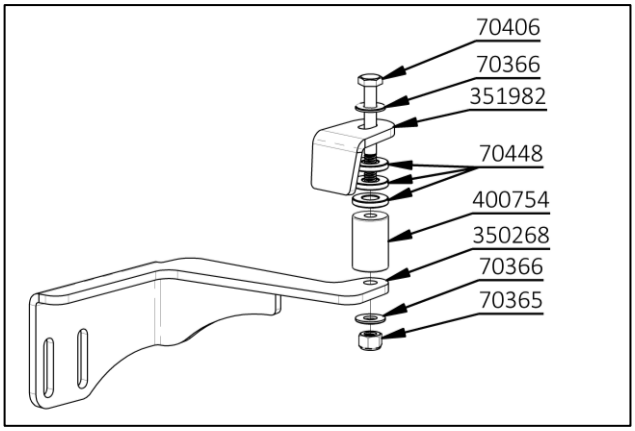


Figure 10: Handle Assembly

13. 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 11 and Figure 12.**

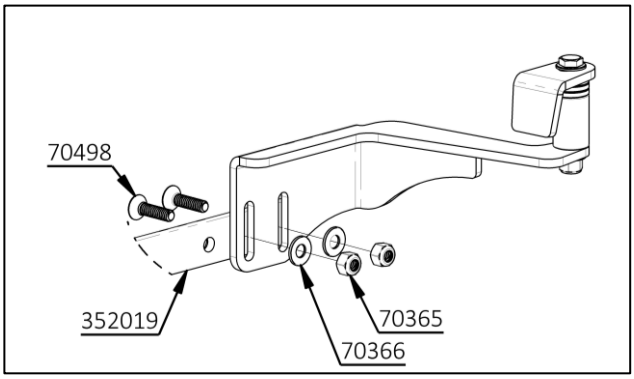


Figure 11: Handle Adapter Install

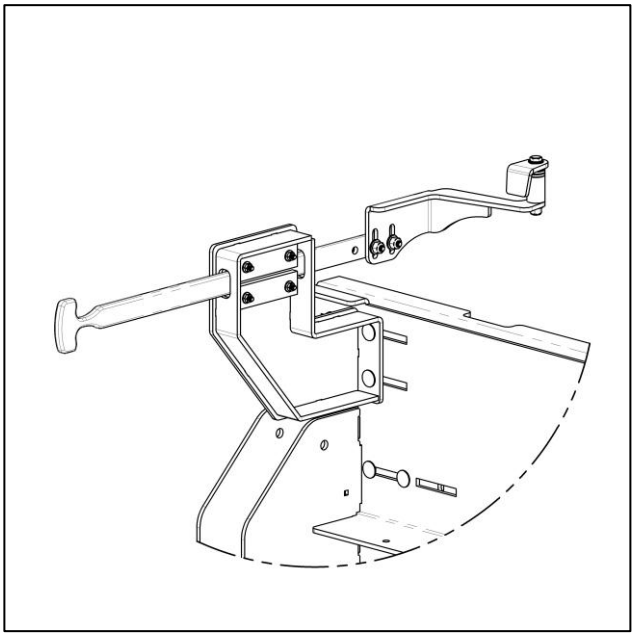


Figure 12: Pull Handle Installed

14. Position the LOWER TRAY and torque all hardware from Step 8 per the torque specifications. Leave the POWERBOX loose.
15. Follow the remaining instructions on the ALR POWERLIFT V2 installation instructions.

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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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4. Damage. Damage to Aluminess products due to normal wear and tear, including, but not limited to, cosmetic issues and superficial scratches, or structural damage to an Aluminess product in connection with any vehicle collisions or other structural degradation in connection with the use of such vehicle (on road or off road) will not be covered by the Aluminess warranty. Additionally, any product user's misuse, neglect, overloading, improper maintenance or improper installation or repair of any Aluminess products are not covered under the Aluminess warranty.
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