

# BendPak Technical Service Bulletin

## EV4000SL Initial Hydraulic Fluid Fill Procedure

### BendPak TSB 128-082023

The purpose of this Technical Service Bulletin is to describe changes to the Installation and Operation Manual for the Mobi-EVS™ EV Battery and Powertrain Lifting System models EV4000SL and EV2400SL. This TSB is to be used in conjunction with Manual 5900267 Rev. B.

Initial releases of the Mobi-EVS Setup and Installation Manual omitted the Initial Hydraulic Fluid Fill Procedure for the Hydraulic Power Unit.

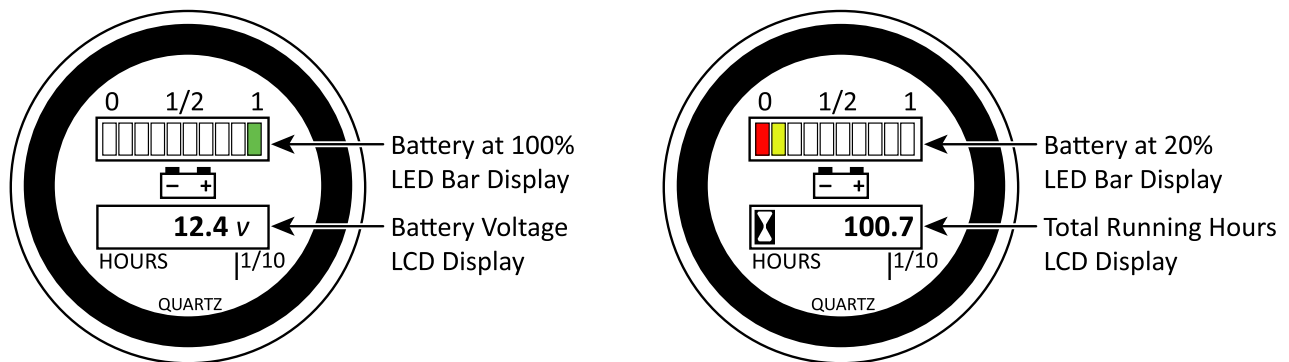
#### Tools required:

- Forklift or Shop Crane
- Phillips screwdriver
- Rags for Fluid clean-up
- Jack Stands or equivalent
- Lifting and rigging straps
- Funnel with 60-micron filter must fit the included hose (8mm ID x 10 mm OD).
- New clean hydraulic fluid

**⚠ WARNING** You must always wear appropriate protective equipment while servicing this Lift: leather gloves, steel-toed work boots, eye protection, back belts, and hearing protection.

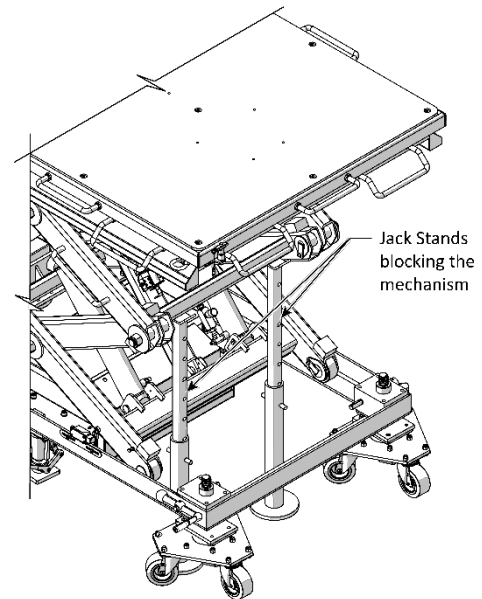
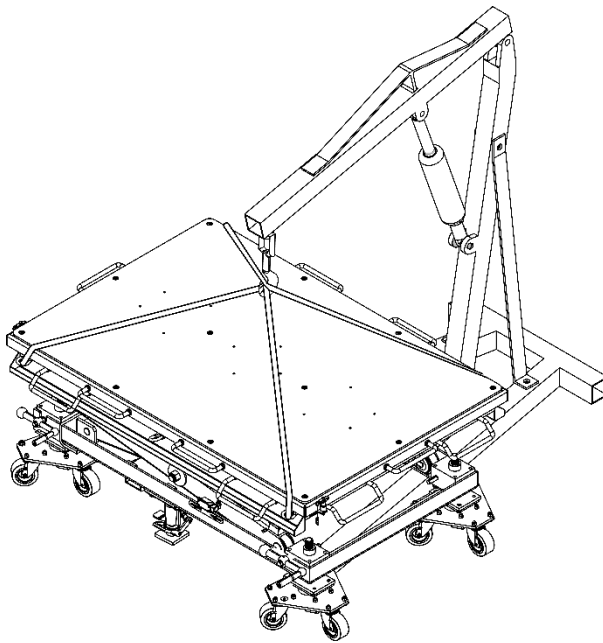
#### To Fill the reservoir:

1. Locate the Power Cord (5324203).
2. Plug the power cord into the Mobi-EVS and then plug the opposite end into a power outlet.
  - a. If the Battery Status indicates 20% or higher, then proceed to **step 4**.
  - b. If the Battery Status has no indication, unplug the unit and proceed to **steps 3a-f**.



3. The top deck of the Lift must be raised to reset the circuit breaker to its **on** condition.
  - a. Use a forklift or shop crane with appropriate straps and rigging to safely **raise the top deck to the third safety lock**. The Lift includes six 35 mm eyebolts. Three on each side of the Lift that may be used as attachment points for lifting straps or other rigging.

**⚠ WARNING** The top deck is heavy and awkward to work with. Lifting the deck with a crane or forklift should be accomplished by competent personnel ensuring the deck is properly rigged and balanced for safe lifting. Lift personnel should have knowledge, training, and experience in lifting, rigging, and securing heavy objects.

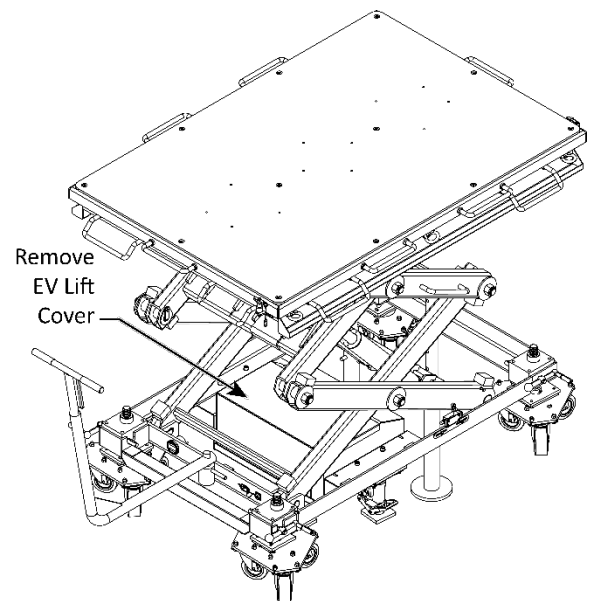


b. After raising the top deck to rest on the third safety lock, use jack stands or an equivalent, as detailed above, to ensure the safety of personnel and stability of the Lift while working under it.

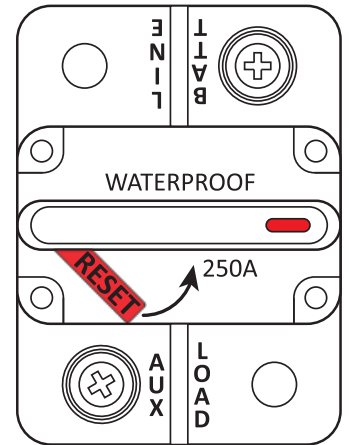
**⚠ DANGER** Crushing hazard and pinch points. Do not work under the top deck or between the top deck and any moving part of the Lift unless the Lift's downward motion is blocked by a jack stand or equal device that will prevent downward movement.

c. After the top deck has been made secure and is in a safe condition, remove the two screws securing the EV Lift Cover then carefully lift and remove the cover to access the circuit breaker.

**⚠ WARNING** When the EV Lift Cover is removed, live electrical terminals are exposed. EV-Mobi Lifts utilize a 12 VDC battery of significant capacity. Use metal tools with caution and do not touch electrically live terminals with your hands. Bridging across a live terminal and the frame of the Lift will result in arcing and a very large current flow. This may result in personal injury or damage to the battery, the power unit, and/or its controls.



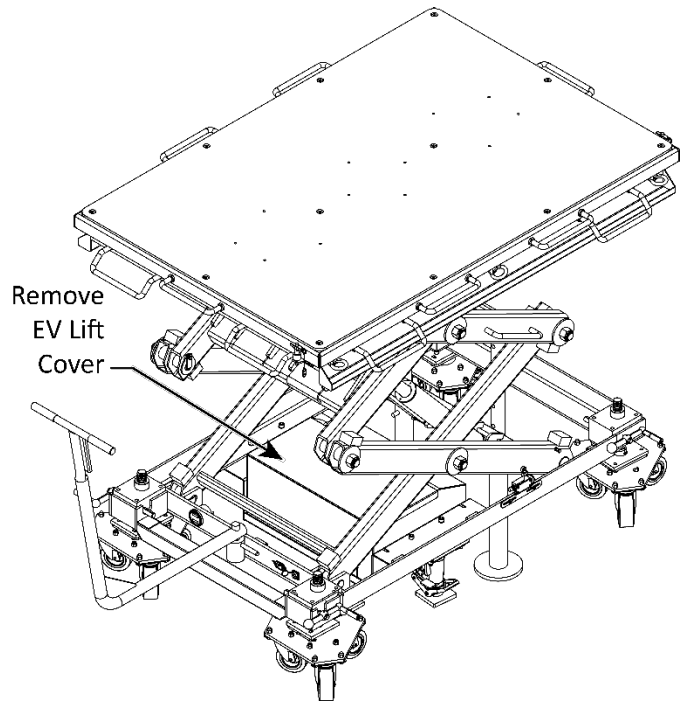
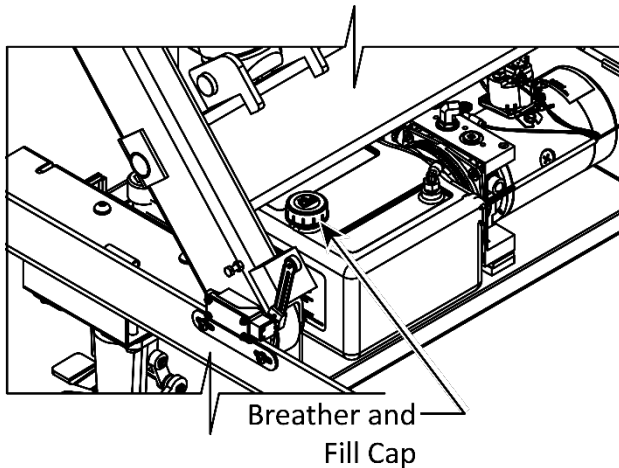
- d. Locate and reset the circuit breaker by pushing the reset bar as shown in the figure to the right.
- e. Plug the Mobi-EVS into a 110VAC wall socket and observe the Battery Status Indicator. Allow the battery to charge until at least 20% is indicated on the battery status indicator.
- f. Once the battery has reached a 20% charge, plug in the control pendant and move to **step 9**.



4. Connect the Control Pendant to the Lift.
5. Push the **up** button. The EV-Mobi is shipped with the reservoir half full. This should be enough fluid to raise the top deck allowing access to the EV Lift Cover. It is **not enough** fluid to raise the deck to its maximum height and it will damage the power unit if you attempt to do so. You may hear some gurgling and squeaking as the top deck rises, which indicates the power unit is running out of fluid. Release the **up** button.

**⚠ DANGER** Crushing hazard and pinch points. Do not work between the top deck and any moving part of the Lift unless the Lift's motion is blocked by jack stands or equal device that will prevent movement.

6. Press the down button to rest the top deck on the nearest safety lock.
7. Set jack stands or the equivalent under the mechanism as shown, to prevent the top deck from descending in case of failure to engage a safety lock.
8. Remove the two screws securing the EV lift cover.
9. Remove the power unit's reservoir breather and fill cap.




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 **WARNING**

Keep bare hands away from Hydraulic Fluid; always wear gloves when handling Hydraulic Fluid, Cylinders or Hydraulic Hoses. When handling Hydraulic Fluid, always observe the safety instructions from the manufacturer.

10. Use the supplied tubing and an appropriate funnel to deliver approximately 1.5 liters of hydraulic fluid into the reservoir (the Lift is shipped with  $\approx$ 1.5 liters already in the reservoir). Compatible fluids include any general-purpose ISO-32, ISO-46, or ISO-68 hydraulic oil or approved automatic transmission fluids such as Dexron III, Dexron VI, Mercon V, Mercon LV, Shell Tellus S4 / S3 / S2, or any synthetic multi-vehicle automatic transmission fluid. Do not overfill. The reservoir capacity is 3 liters.
11. Replace the fill cap and promptly clean any spilled hydraulic fluid.
12. Replace the EV Lift Cover and secure using the two screws previously removed.
13. Connect the Control Pendant, if not already connected. Push the **up** button to raise the top deck off the safety lock and clear of the jack stands.
14. Remove the jack stands to allow the top deck to descend.
15. Press the **down** button until the top deck is resting on its stops.
16. Plug the power cord into the Mobi-EVS and then plug the opposite end into a wall outlet. Monitor the Battery Status Indicator and allow the Lift battery to come to a full (100%) charge.
17. Refer to the Setup and Operation Manual for complete operating instructions.

Information in this Technical Service Bulletin will be included in the next revision of the Setup and Operation Manual.

-  **WARNING!** Do not operate the Lift if there are maintenance or operation issues; instead, take the Lift out of service, then contact the dealer, visit [bendpak.com/support](https://bendpak.com/support), email [support@bendpak.com](mailto:support@bendpak.com), or call **(800) 253-2363** select option 7 then 4.