

Inspection Instructions:

Describe any issues that are discovered upon inspection on a separate sheet. Contact your OneCharge Representative or contact our Service Department for resolution.

Delivery Inspection:

Add to checklist in Table 1, checking for cable and component damage

Installation and operation check

1. Check the batteries per checklist (Table 1)
2. Check the batteries by connecting them to the trucks
 - a. If battery was shipped with External BDI or without any additional cables, confirm no power to truck with charger connected or with the pins of the charging port jumped
 - b. If equipped, connect CAN harness between battery and truck, ensure Lift Truck battery type is set to 'Lithium' and verify Truck will not drive with charger connected or with the pilot pins of the charging port jumped

Customer Delivery & Setup Verification

3. Before Commissioning the lift complete "Chargers checklist" Section (Table 2)
Battery should be charged to less than 80% of SOC upon delivery. Pay special attention to
 - Date and Time
 - Verify auto Start-Stop
 - Voltage and Max current setting

Charger Setup – Non CAN

Confirm correct voltage/current setting: Insert the charging connector into the battery. Charging should begin after a short delay (up to several seconds). Charger display should show maximum charging current shortly after connection. Only batteries keyed to the same voltage will connect to the battery.

Charger Setup – CAN

Confirm correct voltage/current setting: Insert the charging connector into the battery. Charging should begin after a short delay (up to several seconds). Charger display should show maximum charging current shortly after connection. All parameters for charging are defined by the battery. All battery and charger connectors will be keyed the same way regardless of battery voltage. This applies only for CAN-enabled chargers (specially approved/certified by OneCharge).

Terms and table explanations

Batteries checklist (Table 1)

D_ Physical Appearance - mark if no issues found. Otherwise list comments on the separate sheet without marking the check box

D_ O (on/off) - switch on the power button on. Wait 20 sec – you will hear a few clicks and see the indicator shows SOC. After that power off the battery and check that battery will switch off immediately.

D_ SOC - need to read the SOC upon inspection and write it down

D_ Sealing - check for openings between lid and the box (no more than 3mm), indicator protection on E-box is present and not damaged

D_ Cables - check external cables for any visible damage. Length of the cables are according to the order. One of the cables has visible RED marking which corresponds to the positive terminal of the connector

D_ Connector - check that connector is not damaged, correct type, position, lead of the correct length.

D_ Cable CAN-harness - check the harness goes to the truck with matching connector. Need to check that no issues with the cables, pay special attention to the damage near the connector.

D_ Euro (charger port) - It should not have any visible damage and be aligned with the opening in the E-box. Check the voltage pins setting (not bent, not twisted, not turned).

D_ Truck Stop - check that the truck does not move after connecting to the charger or with the pins of the charging port jumped

D_ Truck CAN - check that the truck for battery installation is CAN-enabled and has the appropriate software and settings.

D_ Truck CAN response - check that after truck connection to the battery there are no errors after 15 sec. Battery has a delay for identifying the CAN connection. If after 15 sec battery did not get CAN messages from the truck it will show an error and go into CAN-disabled mode.

Chargers checklist (Table 2)

D_ Max current set, A - charging current setting on the charger.

D_ Curve - check that charger has OneCharge Lithium curve parameters correctly setup in menu (contact charger supplier for details).

D_ EV - check that charger stops when battery sends the start-stop signal. Can be done with Systec simulation or by top charging the battery and making sure it does not create overvoltage error.

D_ CAN - check that the charger CAN enabled and certified by OneCharge (if CAN-enabled).

D_ Connector - check that connector type corresponds to the connector in the battery. It should have the special pins (voltage hex-keys) not allowing to connect chargers and batteries with different voltages. In the case connectors could be connected – ask OneCharge installation responsible person.

D_ Harness wires - check that charger cable kit has two power cables and two signal wires connected to the connector. Check All of them for any signs of damage.