

# **BiGDUG<sup>®</sup>**

# **BREEZE**

# **LITHIUM FORKLIFT**

## **HOW-TO-GUIDE**



**BiGDUG<sup>®</sup>.CO.UK**

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# CONGRATULATIONS ON YOUR NEW BREEZE LITHIUM FORKLIFT!

As a special thank you, we've included your trucks **first service for free**.

To book your free service please contact our **Dedicated Forklift Service Team** once your truck has been delivered. This also covers you under the first year's warranty.

**BigDugForklifts@Impact-Handling.com** or by calling **0845 601 5560**.

## BREAKDOWNS AND REPAIRS

Should you encounter a problem over the lifetime of your truck, you can be rest assured we have you covered!

Simply follow the steps below and we can arrange for a local engineer to attend site in no time.

- Email our team directly on **BigDugForklifts@Impact-Handling.com** or by calling **0845 601 5560**
- Provide serial number as well as a description of the fault and location.
- Our National Service team will arrange an engineer visit at a convenient time during a day in the week.

**Did you know we have 200+ engineers nationwide and our average response time is 4 hours?**

# HOW-TO-GUIDE

## 1. What Is This Forklift For

The Breeze Series 3+4-wheel electric forklift is designed to:

- Lift and lower loads in light applications
- Transport loads over short distances

### DO NOT USE IT FOR:

4/7 operation or heavy-duty applications, carrying people, pushing/pulling loads, travelling with raised loads, or operating in hazardous or explosive environments.

## 2. Before You Start - Daily Checks

Perform these quick checks every day before operating:

### Safety and Mechanical Checks

- Wheels, tyres and wheel nuts secure
- Forks undamaged and fork spacing correct
- Load backrest and overhead guard fitted
- Hydraulics: no visible leaks
- Steering and brakes work normally
- Chains evenly tensioned
- Battery secure and no cable damage
- All warning labels visible

### Cab and Controls

- Seat locked and adjusted comfortably
- Seat belt operating and not damaged
- Dashboard, lights, horn and alarms working
- Emergency stop switch released (pulled up)
- Direction lever in **Neutral**

**If any fault is found: do not operate the forklift.**

## 3. Starting The Forklift

- 1 Release the emergency stop (rotate clockwise so it pops up)
- 2 Sit properly and fasten the seat belt
- 3 Ensure the direction lever is in **Neutral**
- 4 Turn the key to **ON**
- 5 Wait for self-check (3–4 seconds)
- 6 Raise forks 150–200 mm and tilt the mast fully back

### If Your Truck Uses IC Card/Fingerprint

- Present the card or fingerprint when indicated
- Ensure the emergency stop is up and the direction switch is in **Neutral**
- Start as normal once authenticated

## 4. Driving The Forklift

- 1 Release the handbrake
- 2 Chose direction:
  - **F** = Forward
  - **R** = Reverse
- 3 Lift forks 150–200 mm off the ground
- 4 Tilt mast slightly backwards
- 5 Press accelerator smoothly

### Steering

- XA forklifts use **rear-wheel steering**
- Rear of the truck swings wide - slow down and allow space

### Braking

- **Foot brake:** primary method
- **Reverse brake:** change direction lever to opposite direction to slow/stop (use gently)
- **Roll brake:** release accelerator to slow via regenerative braking
- **Handbrake:** for parking only

## 5. Lifting, Transporting and Stacking Loads

### Picking Up A Load

- 1 Approach slowly
- 2 Set forks level with pallet openings
- 3 Fully insert forks until the pallet touches the load backrest
- 4 Lift load **50–100mm** above the ground
- 5 Tilt mast fully back
- 6 Reverse out carefully

### Transporting

- Keep load **150–200 mm above the ground**
- Drive slowly and smoothly
- If the load blocks your view, reverse (unless on an incline)
- Never turn or travel sideways on slopes
- Uphill with load: **drive forwards**
- Downhill with load: **reverse**

### Unloading

- 1 Stop at the stack and level the mast
- 2 Raise load to the correct height
- 3 Move in slowly
- 4 Lower the load completely
- 5 Reverse straight back
- 6 Lower empty forks

## 6. Adjusting The Fork Spacing

- 1 Park safely and apply handbrake
- 2 Lift and rotate the fork-positioner 180° to unlock
- 3 Slide forks to desired width- equal spacing on both sides
- 4 Rotate the fork-positioner back to lock

## 7. Parking The Forklift Safely

- 1 Stop on **level ground only**
- 2 Fully lower forks to the floor
- 3 Tilt the mast slightly forward
- 4 Engage the handbrake
- 5 Turn off the key and remove it
- 6 Press down the emergency stop switch
- 7 Disconnect battery plug if required

## 8. Lithium-Ion Battery - Basic Use

The Breeze Lithium Forklift comes with a 16a blue commando charging plug. Please contact a local electrician if you need single phase installing within the warehouse.

### Operating Rules

- Recommended working range: **50-100% SOC**
- Charge when SOC is **≤20%**
- Avoid using the truck below **30%** charge
- Never use damaged or wet connectors
- Do not expose battery to open flames

### Charging

- 1 Park and power off forklift
- 2 Check connectors for dirt, water or corrosion
- 3 Connect battery to charger **FIRST**
- 4 Switch on charger
- 5 When fully charged, turn off charger **BEFORE** unplugging

### Storage

- For long-term storage keep battery **≥50%**
- Recharge every 3 months

## 9. Using The Dashboard

Your truck will have either the D28C or HY40D-HC display. Both show:

- Battery level
- Running hours
- Speed
- Operating mode (S/P/E)
- Fault warnings
- Seat switch & parking brake indicators

### Modes

- **S – Speed mode:** Highest performance, fastest consumption
- **P – Power mode:** Everyday normal mode
- **E – Economy mode:** Longest battery life, recommended for general use

## 10. Essential Safety Rules

### Always:

- Wear seat belt and stay seated
- Keep limbs inside the cab
- Check overhead clearance
- Slow down when turning
- Use pallets in good condition
- Keep others away from the mast area
- Never walk or stand under raised forks

### Never:

- Use the forklift in severe weather (strong wind, storms, lightning)
- Carry passengers
- Lift people on forks
- Overload or use incorrect load centre
- Operate on unstable or uneven ground
- Modify the forklift or attachments
- Use two forklifts to lift one load

## 11. Basic Maintenance You Can Do

### Daily:

- Visual checks (tyres, leaks, battery, forks)
- Function checks (lights, seat switch, horn, alarms)

### Weekly:

- Tighten wheel nuts
- Check mast, rollers, and chains
- Lubricate grease points if needed

### Every 200–500 hours:

- Lubricate mast, chains, pins
- Check hydraulic filters
- Inspect wiring and terminals Only trained technicians should perform repairs or electrical/hydraulic work.

Only trained technicians should perform repairs or electrical/hydraulic work.

# LITHIUM BATTERY CARE



## 1. Getting Started - First Week Of Use

To ensure the battery cells balance correctly:

- **Run the truck down to ~20%** on the display
- **Recharge fully to 100%**
- **Repeat this cycle 5 times**

This initial balancing phase is essential for long-term battery health.

**After these 5 cycles:**

**ABC - Always Be Charging.**

You can opportunity-charge as often as needed.

## 2. Monthly Battery Balancing

Once a month, the battery needs a full, uninterrupted cycle:

- 1 **Discharge to 10%**
- 2 **Recharge to 100% in one go**
- 3 **Do NOT use the truck until fully charged**

This monthly deep cycle keeps the battery cells perfectly balanced.

**This step is extremely important.**

## 3. Warranty Reminder

If the battery has not been charged correctly and becomes damaged:

**Any costs to recover or repair the battery may not be covered under warranty.**

If unsure or experiencing issues, **contact your local Supplier immediately.**

# CHARGING THE BATTERY DURING STORAGE

## 1. Before Storing

If the battery stays in the forklift:

- Turn off the **key switch**
- Press the **Emergency Stop** to prevent discharge

## 2. General Storage Rules

- Do **not** leave lithium batteries unused for long periods
- Batteries must be **charged regularly**
- Check **voltage** and **cell consistency** from time to time

## 3. Ideal Storage Conditions

- **Temperature:** Around **25°C**
- **SOC:** **50% ±10%**
- After charging for storage, power the battery **OFF**

## 4. Storage Charging Guide (Based on SOC)

State of Charge (SOC)	Action Required
≤ 20%	Charge immediately
20–50%	Charge once per month
50–80%	Charge every 3 months
80–100%	Charge every 6 months

### Additional Notes

- Lithium batteries usually remain stable for **around 3 months**, assuming normal self-discharge
- Spare batteries should be **checked every 3 months**
- For long storage periods, perform **regular charge/discharge cycles** to maintain cell consistency

# CHARGER POWER SUPPLY - CHARGING ISSUES

Incorrect power supply can cause the charger to trip or fail.

### DO NOT:

- Spur the charger off lighting circuits
- Use weak or overloaded circuits

### DO:

- Provide a **dedicated supply** that matches the charger manufacturer's requirements