

Instruction Manual

Multi Charger



Original Instructions in English (UK).
Part number: SP20067_EN.
Models covered: Multi Charger (D172)

Rev.	Date	Description of Changes	Author
0	27/NOV/ 2025	NEW	C.B.

Serial numbers:

Charger

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1. Introduction and Safety Information

1.1. Introduction

1.1.1. Operator Manual Overview

This operator manual contains important information regarding the safe, proper and efficient operation of the Multi Charger, referred to as 'charger' in this manual. It is for use with Dennis lawnmowers only (referred to as 'machine' in this manual).

This operator manual must always be available and read by every User of the charger. 'User' is defined as an authorised person tasked with working on or with the charger, typically operators, groundskeepers and maintenance personnel.

Adherence to this operator manual will help to avoid and minimise risk to you as the User, the charger and the machine being charged. Prior to use, every User must ensure they have:

- Fully read and understood these instructions,
- Understood the charger controls,
- Understood the dangers and hazards involved, and methods to mitigate risk.

In the case of any difficulty or if further information is required, call Howardson Group or your Dealer. In the interests of speed and accuracy of information, please quote the serial number of the charger when making enquiries.

1.1.2. Charger Description





The Multi Charger has been designed to charge up to eight, 'large', Dennis E-Series machines sequentially using a single charging unit with multiple charging leads. This enhances the efficiency and convenience of charging multiple machines in fleets. Operation is carried out using a large display, with customisable charge settings to allow for overnight charging, automatically switching between machines depending on user settings.

The design also avoids common challenges often associated with battery equipment, such as avoiding deep charge. The Battery Management System (BMS) ensures batteries are charged to a safe level and in a manner preferable to the operator.

1. Introduction and Safety Information

1.2. Safety Instructions

Throughout this manual, potential safety risks are identified with a word and coloured coded box. They denote the following:

 DANGER	 WARNING
<p>Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.</p>	<p>Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.</p>
 CAUTION	 NOTE
<p>Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.</p>	<p>Indicates information considered important but not hazard related.</p>

1.2.1. Warning Symbols & Decals

The following symbols and decals are used throughout this Operator Manual and across the machine. Familiarise yourself with them prior to operating the machine. They are located near areas of potential danger or convey further information on machine use.

Warning Signs



General warning sign



Warning; Explosive material



Warning; Flammable material



Warning; Corrosive substance



Warning; Crushing of hands



Warning; Electrical hazard

Prohibition Signs



General prohibition sign



No smoking



No open flame; Fire, open ignition source and smoking prohibited



No metallic articles or watches



Do not touch



No sitting



Do not alter the state of the switch



Not to be serviced by users

Mandatory Signs



General mandatory action sign



Refer to instruction manual/booklet

1. Introduction and Safety Information



Disconnect before carrying out maintenance or repair



Wear eye protection

Other Signs



Take note



Recycle



Heavy weight

Decals

Your machine decals must be replaced when they become worn or damaged. Contact Howardson Group Service department with the part number listed below:



B32902_REV2
(200x50mm)
J20362_REV2 (120x30mm)



B32903_REV0

1. Introduction and Safety Information

1.2.2. Important Safety Instructions



- **Always** read this operator manual carefully and understand the controls before commencing charging. Improper use or care may result in injury or death.
- **Always** read the additional OEM 'Installation and User Manual' supplied. Additional information is supplied in that document which is not included in this manual.
- **Always** charge genuine Dennis batteries and to the machine models listed in the technical specification. Never attempt to charge any other machine or battery type.
- **Always** use the charger with all panels correctly fitted. They are supplied for your protection.
- **Never** use the charger if it is damaged or faulty in any way.
- **Never** make any modifications to the charger.
- **Never** move or attempt to lift the charger whilst it is plugged into the mains or to a machine. Turn off the electricity supply and disconnect all plugs and leads, storing safely before moving.
- **Never** put any body parts or tools into the charging ports.
- **Never** allow any unauthorised person to operate the charger, in any way, at any time.
- **Never** operate the charger if you are experiencing any of the following conditions: illness, reduced physical capacity, or under the influence of drugs or alcohol.



- **Never** let a child operate the charger or be in the work area when it is being operated.
- **Always** use indoors, in a dry, flat area. It is not for outdoor use.
- **Always** charge in a well ventilated area, away from flammable materials.
- **Always** inspect the batteries and chargers regularly for signs of damage. If you see any physical damage (such as battery swelling or leakage), immediately stop using the charger and turn off.
- **Never** attempt to disassemble, repair or modify the charger.
- **Never** immerse the battery or charger in water or allow condensation to occur within the unit.
- **Never** touch the battery or charger with wet hands.
- **Never** expose the battery or charger to fire or open flame.
- **Never** strike or puncture the battery or charger.
- **Never** expose batteries or chargers to extreme temperatures, direct sunlight or moisture.
- Keep children and unauthorised personnel away from this unit.
- Do not open the unit, puncture, crush, incinerate, immerse in water, short circuit, force discharge or expose to temperatures above the declared operating temperature range. Risk of fire or explosion.

1. Introduction and Safety Information

1.2.3. Intended Use and Residual Risks

This charger is designed only for the charging of one to eight, 'large', Dennis E-Series machines. Specific models it can be used with can be found in "2.1. Technical Specifications" p.9. Any use beyond this is outside the scope of this charger and could cause injury or damage to the charger or machines being charged. This includes, but not limited to, use with any other battery device or with any other make of machine.



WARNING - INTENDED USE AND RISKS

Personal injury and damage to the charger and/or machine can result in using the charger for alternative uses. **Never** use the charger for anything else other than its intended use.

You must follow instructions and information found in "1.2. Safety Instructions" p.5 and "3.2. Operating Environment" p.18.

1.3. Assembly, Installation and Commissioning

1.3.1. Unpacking and Inspection

The machine will arrive on a wooden pallet base, with either a cardboard or wooden outer frame. Carefully remove this outer packaging. You alternatively may have the charger delivered direct from our factory or your Dealer.

Visually inspect the charger for any signs of damage which may have occurred during transport. Contact Howardson Group or your Dealer as soon as possible should there be damage.

Included with the charger is this operator manual, and OEM charger 'Installation and User Manual'.

To remove the machine from the pallet:

1. Remove all tie-down straps.
2. Wherever possible, use a suitably rated

ramp to roll the charger off onto the ground.



CAUTION - MACHINE WEIGHT

The charger is very heavy. Charger weight can be found on the serial plate or section "2.1.2. Specification Table" p.10. Take care when removing from the wooden pallet - we recommend two people to help with this. Follow all manual handling techniques for your business and region.

Dispose of all packaging according to local laws - recycle where possible.

1.3.2. Installation Requirements

No assembly is required for the charger, however adjustments will be required to make adequate space for its storage and use.

During use, access around the entire charger is required to provide space for the machines and charging cables. and enough space

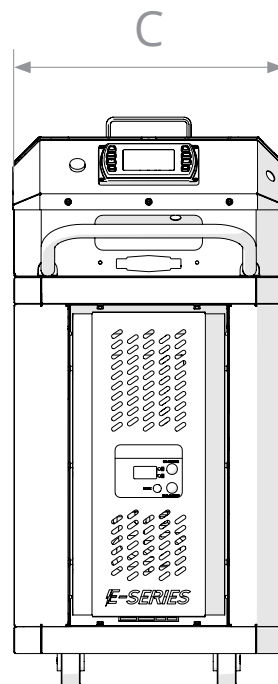
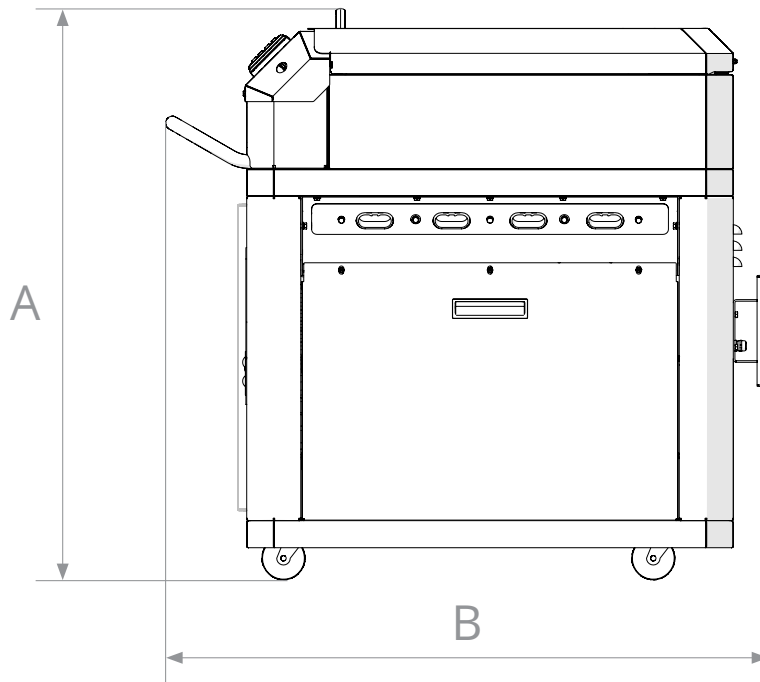
1.3.3. Commissioning

Your Dealer or a Howardson Group representative will be present to commission and set-up your charger. They will walk through the process of basic controls and getting started.

2. Charger Overview

2.1. Technical Specifications

2.1.1. Dimensions



View	
A	1070 mm [42"]
B	1120 mm [44"]
C	520 mm [21"]

2. Charger Overview

2.1.2. Specification Table

For full technical specification, see supplied third party

Description		Value
Main supply voltage ¹		100-240 ± 10%
Mains frequency ¹		50-60 Hz
Weight		140 kg
Charging time		1.5-2 hours*
Compatible Machines		ES-860, ES-760, ES-30, ES-36 & ES-34R
Environmental	Operating temperature range	-20 °C to +50 °C (+15 °C to +25 °C optimal)
	Storage temperature range	-20 °C to +45 °C For additional information, see section " 4.3. Storage " p.20.

¹For full charger technical specifications, see OEM 'Installation and User Manual' supplied.

*Per machine. From empty to full based on a 240V, 50-60Hz mains system and a 5.7kWh battery. Please note, other mains systems which differ to this may alter the charging times stated.

2. Charger Overview

2.2. Machine Components

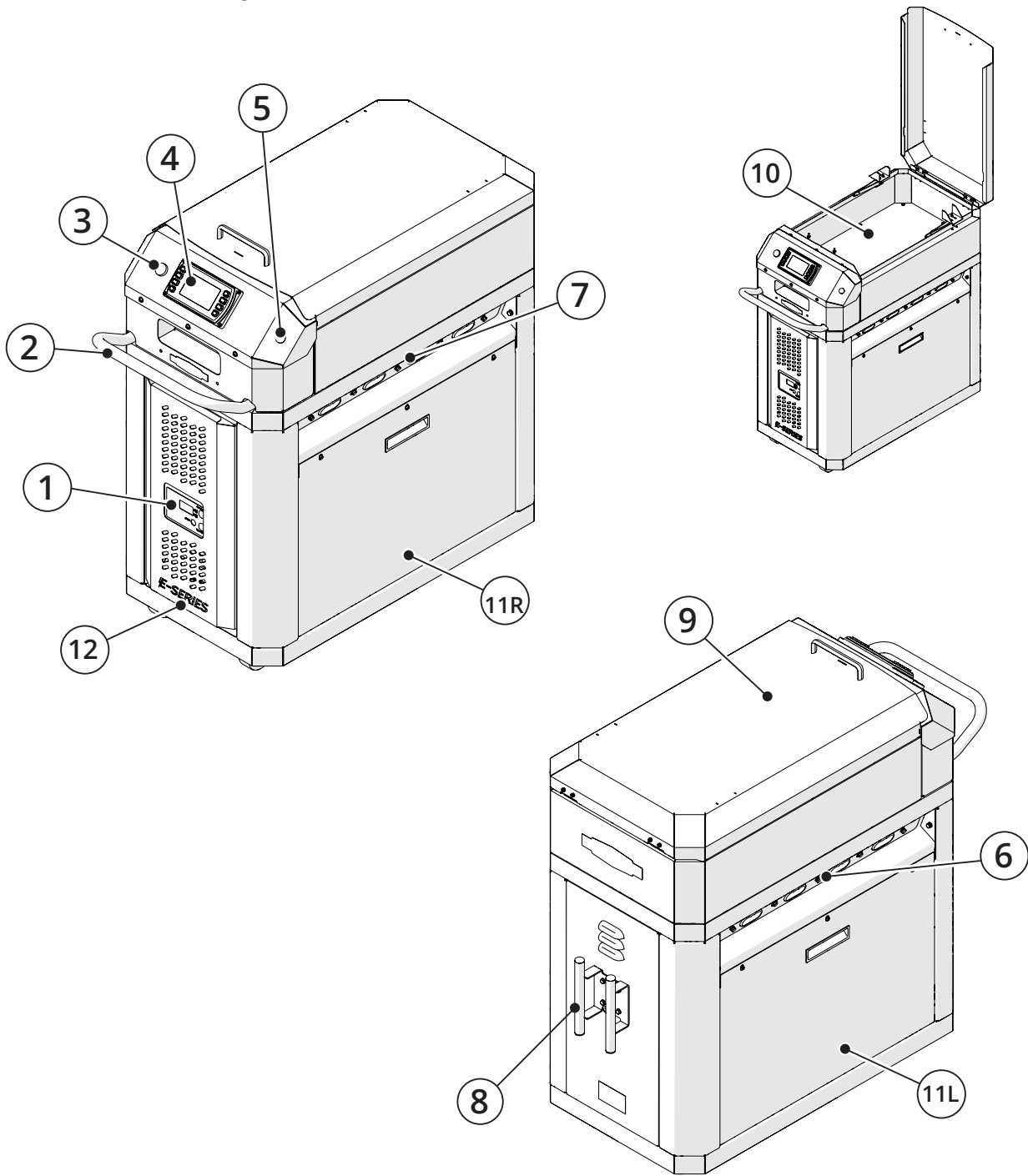


Fig.1 - Charger components overview.

- 1. Main Charger Unit
- 2. Handlebar
- 3. Power Button
- 4. Display Screen
- 5. Emergency Stop
- 6. Charging Ports 1-4
- 7. Charging Ports 5-8
- 8. Power Cable Storage
- 9. Lid
- 10. Cable Storage
- 11. Access Panel (Left (L) and Right (R))
- 12. Serial Plate
- 13. Charging Leads (*not shown*)

2. Charger Overview

1. Main Charger Unit

The mains charging unit is located at the front, behind a removable cover plate (lift to remove). A cut-out allows for visibility to the screen. The operator manual for this charging unit is supplied separately.

2. Handlebar

Use the handlebar to manoeuvre the entire charger. Four swivel castors aid in this. Do not lift from this handle.

3. Power Button

The power button is only used for powering up and turning off the charger. It has two position states: on and off. Press to turn the charger on, and press again to turn off.

4. Display Screen

The display screen contains vital information and controls to operate the charger. See "[2.3. Display Screen](#)" p.14 for more information.

5. Emergency Stop

In case of emergency, press this button to immediately stop all functions and processes of the charger.



To reset and resume power, firstly turn the button head clockwise and then hold the start button.

Fig.2 - Emergency stop



WARNING - EMERGENCY STOP

- After using the emergency stop, turn off and unplug mains power before continuing to resolve the issue which caused the fault.
- After using the emergency stop, fully assess the charger to ensure all safety functions are working.
- This button is for emergencies. Do not use as a regular stop mechanism.

6 / 7. Charging Ports 1-4 / 5-8

Take note of the charging port numbering indicated below. This, along with the charging sequence chosen, will dictate the order the machines are charged.

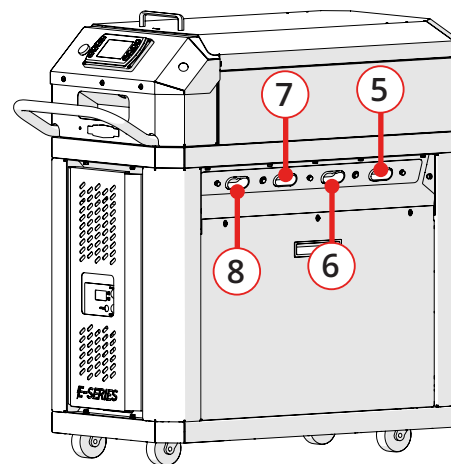
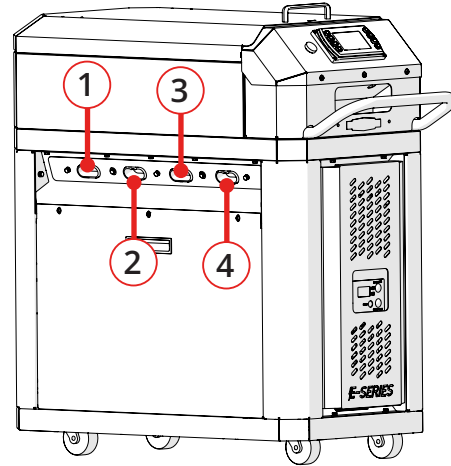


Fig.3 - Charging port location

8. Mains Power Cable Storage

When not in use, the mains power must be disconnected from the wall outlet and wrapped securely around this storage point.

2. Charger Overview

9 / 10. Lid / Cable Storage

Under the lid is the storage area for all charger leads to the machines. Keep them stored here when not in use.



CAUTION - LID

Only open and close the lid using the handle, otherwise risk of finger trap.

11. Access Panel

The left hand access panel (11L) is used for servicing purposes only and must remain shut. The right hand access panel (11R) has additional storage with shelving .

12. Serial Plate

The serial number can be found at the bottom of the charger, behind the cover plate. Remove the cover plate by lifting slightly and moving away from the charger. Please make a note of the serial number of your charger in the table found on the inside cover of this manual. Always quote these in any communication with Howardson Group. .

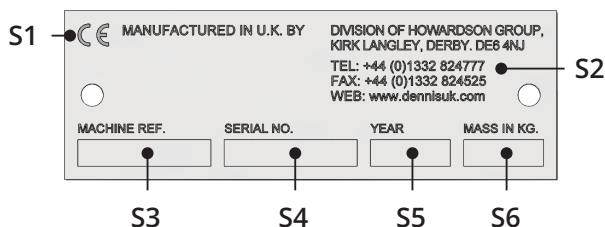


Fig.4 - Serial plate components overview.

- S1. CE marking
- S2. Business/manufacturer address and contact details
- S3. Machine code designation
- S4. Serial number
- S5. Year of build
- S6. Mass of machine (kg)

13. Charging Leads

Eight charging leads are supplied and stored in the cable storage area (no.10).

As standard, four leads are 4 m in length and four are 2 m in length.

2. Charger Overview

2.3. Display Screen

Located directly in front of the handlebar is the display screen. Here is where important charger information and controls are accessed. On charger start-up it defaults to the Home Page (see Fig.5). From here you can view / action the following:

1. Initial charge level
2. Current battery selection (yellow highlight)
3. Charge mode
4. Refresh / Auto-scan
5. Move next port
6. Port number and its battery level
7. Main menu

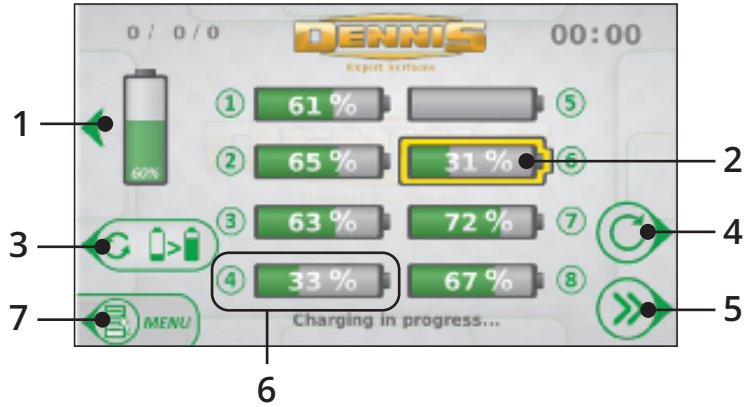


Fig.5 - Home screen overview.

1. Initial charge level

This setting sets the value to which each battery must charge to initially before moving onto the next battery. It gives a minimum charge value to reach for all batteries before attempting to fully charge any battery. This ensures an even distribution of charge to all machines so not any one is too low before use. When all connected batteries reach this value, the program returns to the first battery in the sequence to charge to full (depending on charge mode).

Six initial charge levels are available: 50%, 60%, 70%, 80%, 90% and 100%. Select to cycle through the different battery levels. Default value on start-up is 60%.

2. Current battery selection

The battery currently being charged or read is highlighted in yellow. Batteries highlighted in green indicate they are fully charged.

3. Charge mode

This setting dictates which batteries should be prioritised when charging multiple batteries. The three modes available are:

- Charge in numerical order (i.e. ports 1>8).
- Charge lowest charged battery first through to highest.
- Charge highest charged battery first through to lowest.

Default mode on start-up is lowest to highest.

4. Refresh / Auto-scan

Select to re-scan the system. Recommended when plugging in another battery to the system mid-use, or if changing the initial charge level/ charge mode mid-use. If this is not selected, system will not detect the new battery until it finishes the current charging session on all batteries.

2. Charger Overview

5. Move next port

Manually skip to the next battery in the sequence.




6. Port number and battery level

Each port is designated with a circled number. If a battery is connected, its battery level will be shown next to the port in question, otherwise it will be shown as blank.




7. Main menu

Within the Main menu, the following can be viewed/actioned:

Charger Information:

- Time  Edit time
- Date  Edit date
- Screen brightness  Alter screen brightness

Information Screen

- Information  General machine information and pages from Operator Manual.
- FAQ  Frequently Asked Questions.
- Contact Information  Howardson Group contact details.

2. Charger Overview

Example:

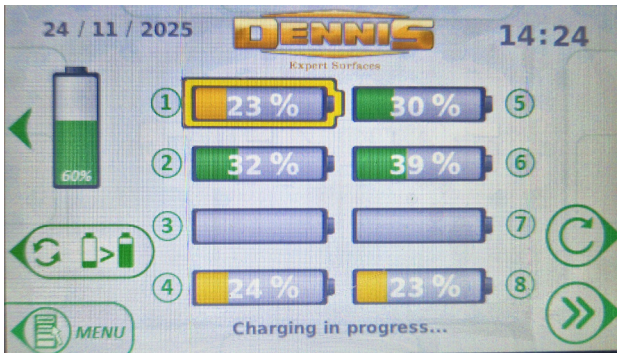


Fig.6 - Charging example

This example shows six machines plugged into the charger, with ports 3 & 7 empty. Initial charge level is set at 60% (default) and charge mode is minimum to maximum (default).

All machines/batteries are less than 60%, therefore all will be charged to this level first (as per initial charge level), before the cycle starts again to charge to full.

Port 1 is currently selected as that has the least charge (as per charge mode). If two or more machines are equal in battery level, as in the case here with ports 1 & 8, the system will choose the lowest port number first.

Once the machine connected to port 1 reaches 60%, the next lowest battery level (port 8) will begin charge to 60%. This is followed by ports 4, 5, 2 and finally 6. Once the machine connected to port 6 is at 60%, the system will go through ports 1>8 charging to 100%, automatically shutting off each machine when it reaches 100% charge.

Once all batteries are fully charged, the system will auto-scan once an hour to check the batteries and charge as required.

3. Operation and Emergency Procedures

3.1. Charging

3.1.1. Charging Instructions

Follow the charging instruction below for correct and safe use:

1. Plug the charger into the mains power supply. Manoeuvre to allow the placement of machines around it (mains lead can extend a maximum of 4 m).
2. Position the machines within reach of the charger (note number and maximum length of charger leads). Try to ensure an even spread of machines and keeping a suitable distance with one another (Fig. 7A).
3. Remove the required length charging lead from the cable storage. Open the charging cover of the machine and plug in the charging lead. Ensure the correct end is plugged into the machine and charger (note male / female connection). Any port of the charger can be used. Try to avoid crossing charging cables.
4. Turn each machine on.
5. Press the power button on the charger - the home screen will appear.
6. By default, initial charge level is set at 60% and mode set low to high. Select initial charge level/charge mode if different values are required.
7. Press the refresh/auto-scan button. The charger will cycle through each port and determine whether a battery is plugged into it, and what charge level it is. It will then start charging as per the initial charge level and charge mode selected.



NOTE - CHARGE START

If the refresh/auto-scan button is not selected, the system will auto-start after 5 minutes.

8. Screens on the machines will indicate their charging status; "Charging in Progress" for the current machine being charged (Fig.7B) and "Roller Motor Comms Error" (Fig.7C)

for all other machines. This indicates the charger is connected and stopping the machine from being driven away.



CAUTION - CHARGING DURATION

- The charger can be left until the batteries are fully charged, typically overnight.
 - It is recommended to turn the charger off once all machines have finished charging.
-
9. Once complete, turn the charger off from the power button and unplug each charger lead from the machines. Close the charging cover on the machine.
 10. Return the charger leads to the cable storage area. Unplug the mains cable and store accordingly.
 11. Normal use can now resume.

Fig.7 - Charging Instructions



Fig.7A - Example of three machines connected to the charger.

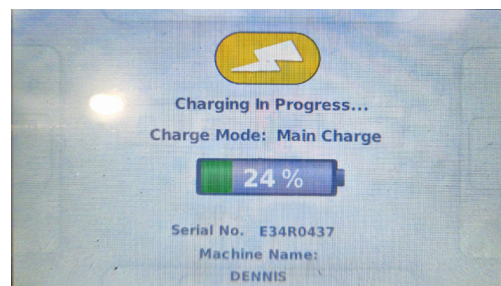


Fig.7B - The machine currently on charge will display the 'Charging in Progress' on its screen.

3. Operation and Emergency Procedures

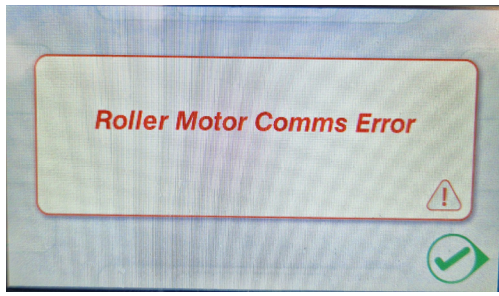


Fig.7C - All other machines not on charge will display the 'Roller Motor Comms Error' on their screen.

3.1.2. Battery and Charger Tips

- If you require a machine before it has finished its charging session, ensure it is not the current port in use and unplug the charge lead. If it is the current port, select 'Move next port' button to manually select the next port before unplugging.
- Always refresh/Auto-scan when a machine has been connected or disconnected from the charger.
- We recommend to unplug the charger once charging has been completed. Until this point however, the battery monitoring system will monitor and regulate the batteries to prevent overcharging and to maintain a full battery.
- Store the charger in a cool, dry place, away from direct sunlight. Extreme heat or cold can degrade charging performance. For further storage guidance, see "4.3. Storage" p.20.

3.2. Operating Environment

Temperature:
Use between -20 to +40°C. Usage in the upper and lower limits of this range will affect performance and battery life.
Humidity:
Use between 30-70% RH. High humidity can lead to rust and corrosion on metal parts.
Weather:
Use indoors only. Not for outdoor use.
Terrain/Slope:
Indoor use only. Use on flat and level ground, free from obstacles and obstructions.
Dust and particulate:
Avoid environments with high amount of dust due to the increase in fire hazard. Regularly keep the charger clean and free of dust - see "4.1. Cleaning" p.20
Vibration and Shock:
Keep vibration and shock to a minimum to avoid damage to charger. Store the charger away from passing traffic and avoid transporting over rough ground - lower gently over kerbs and around bumps.
Lighting Conditions:
Use the machine in good lighting conditions. This allows for the safe operation of the charger.

3. Operation and Emergency Procedures

3.3. Emergency Procedures

3.3.1. In the Event of a Breakdown

In the event of a breakdown or malfunction with the machine, please contact Howardson Group who will advise further.

3.3.2. Hazardous Substances and Fire

No hazardous substances are emitted by the charger or machine during use. However the lithium-ion battery contains hazardous substances which would be toxic if it were to leak or catch fire.



In the event of a fire, use a suitably rated fire extinguisher which can be used on lithium batteries and electronics.

- Lithium battery - use a specialist Lith-Ex fire extinguisher,
- Electrical components - use a suitable electric-safe fire extinguisher, such as CO₂.

Only attempt to extinguish the fire if you are trained and it is safe to do so. Personal safety must always come first.

4. Maintenance and Service

4.1. Cleaning



CAUTION - WATER DAMAGE

Do *not* use a pressurised hose to clean your charger. Doing so may cause water ingress, damage and invalidate your warranty.

Use a damp microfibre cloth with a mild detergent to clean the charger metalwork. Ensure it is unplugged from the mains power and avoid cleaning directly around the ports.

4.2. Handling and Transport



WARNING - LIFTING

The charger does *not* have designated lifting points and therefore *not* recommended to be lifted. Lifting the charger may result in injury, damage to the machine, or both.

However if lifting is required, then use suitably rated lifting straps going under the chassis of the charger. Please refer to "2.1. Technical Specifications" p.9. The weight can also be found on the serial number plate.

To transport the charger, use a ramp to aid onto a pallet - note the castor wheels on the underside. Anchor the machine to the floor/pallet using suitably rated tie-down straps going over the top, protecting the metalwork with foam or similar.

4.3. Storage

Follow the points below for correct storage of your charger.

- Store in a location away from direct sunlight, flames, heat sources and areas with high shock/vibrations.
- Store in a location maintaining a consistent temperature of 0°C to +30°C and avoiding high fluctuations.

- Store in a location that is dry, preferably with a relative humidity of 75% or less.
- Thoroughly clean and dry the charger prior to storage.
- Cover the charger to protect from damage and dust.

4.4. Disposal

4.4.1. Machine Disposal



NOTE - DISPOSAL NOTES

Check and comply with all environmental regulations and local disposal guidelines.

Dispose of the product in an environmentally friendly manner. The machine is predominately made up from metal and electrical components - these can be suitably recycled at a local refuse collection site.



CAUTION - INJURY

Take care when removing components from the charger. If done incorrectly it may cause injury to yourself or damage to the surrounding environment. Wear suitable PPE and dismantle in an appropriate area.

1. Take the charger to a suitable area to allow for the removal of parts. Take into account access and tool availability. Ensure it is not plugged into the mains
2. Wear suitable PPE. This must include safety glasses and gloves as a minimum.
3. Remove panels and fixings. Separate recyclable parts like metal, plastic and electronic. Recycle at a recycling facility.
4. Dispose of non-recyclable components in accordance with local waste disposal regulations.

4. Maintenance and Service

5. Document the decommissioning process for record keeping.

4.5. Warranty Policy

For full warranty terms and conditions, please contact your Dealer or refer to the warranty policy supplied separately.

4.6. Troubleshooting & FAQ

The most common troubleshooting issues are shown below. If your fault is not shown or you are still experiencing problems, please contact Howardson Group directly.

Issue	Possible Cause	Action
Charger won't detect the machine.	<ol style="list-style-type: none">1. No power detected from the machine.2. Charger lead not properly connected.3. Identification error	<ol style="list-style-type: none">1. Turn the machine ON. Select the re-scan button on the charger.2. Check the charger lead is correctly inserted to both the machine and port. Note - one end is male and other female, ensure the correct end is used. Select the re-scan button on the charger.3. Check to see if the charger lead is going to the port identified on screen. See <i>"2.2. Machine Components" p.11 'Charging Ports'</i>.
Charger screen blank	<ol style="list-style-type: none">1. No power to the charger	<ol style="list-style-type: none">1. :<ul style="list-style-type: none">• Turn the charger ON.• Check the emergency stop is not engaged.• Check work site fuses.

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DENNIS



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