

Battery Backup **Gen 2** Kit

2.3 Ah V-06 Installation Instructions

Garage Door Openers

BATTERY BACKUP KIT 2.3Ah V-06 - SAP# NO. 62737		
ITEM	DESCRIPTION	QTY
1	BATTERIES COVER	1
2	BATTERIES SUPPORT	1
3	BATTERY 12V SEC 12-2.2 AGM TYPE	2
4	BATTERY COUPLING WIRE - ESV24	1
5	BATTERY HARNESS	1
6	PAN HEAD SCREW W/WASHER M4x8	2
7	CABLE CLAMP ACC-1.5 (3/16")	1
8	CHARGER BOARD SBC-02	1
9	SBC-02 CHARGER HARNESS	1
10	SBY-2 BATTERY HARNESS	1
PACK #1 (SECTIONAL DOOR OPENERS)		
11	HEX STANDOFF M4	2
12	PAN HEAD SCREW W/WASHER M4x8	4
13	THRUSSE SER HD SCREW "S" RoHS M4x8	2
14	TAPTITE SCREW "P" M4 X 8	3
15	PCB SUPPORT 76X27	1
PACK #2 (ROLLER DOOR OPENERS)		
16	TAPTITE SCREW "P" M4x8	4
17	TAPTITE SCREW "P" M4x10	2
18	CABLE CLAMP ACC-1.5 (3/16")	1

Commercial Door Openers

BATTERY BACKUP KIT GDO-12 - SAP# NO. 86408		
ITEM	DESCRIPTION	QTY
30	BATTERY 12PCA1.3 - 12V1.3AH	2
31	BATTERY COUPLING WIRE - F1	1
32	BATTERY HARNESS	1
OPTIONAL PACK 1# (WALL MOUNT) - SAP# NO. 86774		
33	TAPTITE SCREW "P" M3.5 X 8	2
34	PLASTIC WALL PLUG	2
35	BATTERY HARNESS EXTENSION	1

Swing Gate Openers

BATTERY BACKUP KIT SBC-02 - SAP# NO. MC0090		
ITEM	DESCRIPTION	QTY
19	BATTERY CHARGER BOX ASSEMBLY	1
20	CHARGER ASSY SBC-02	1
ACCESSORY PACK		
21	TIE MOUNT CM-13 (ADHESIVE)	4
22	CABLE TIE 4" GT-100M	4
23	BRACKETS GE 44 621	4
24	SCREW "P" M3.5 X 13 FOR GW 44 621	4

Sliding Gate Openers

BATTERY BACKUP KIT ESV24V2 - SAP# NO. 69767		
ITEM	DESCRIPTION	QTY
25	BATTERY CP1223H 12V 2.3H	2
26	CHARGER ASSY SBC-02	1
27	BATTERY COUPLING WIRE - ESV24	1
28	BATTERY HARNESS	1
29	TAPTITE SCREW "P" M3 X 8	4

Important Safety Instructions



WARNING!

- **DO NOT** short the output of batteries. **Serious personal injury** and/or property damage can result from failure to follow this warning
- During charging and discharging cycles the lead-acid batteries may release explosive gases. Ensure that the area around the batteries is well ventilated
- Take care not to allow any metal objects to make contact with the positive and negative terminals. This will short circuit the battery causing sparks and possible damage to the battery, or even cause an explosion.



ELECTROCUTION!

- The battery box unit should be installed away from sprinkler systems.
- **DO NOT** immerse in water or spray directly with a hose or other device.
- Disconnect the power cord from mains power before making any repairs or removing covers.



CAUTION:

Fall from ladder

Burns

- Ensure ladder is the correct type for job.
- Ensure ladder is on flat ground.
- Ensure user has 3 points of contact while on ladder.
- **DO NOT** handle damaged or leaking batteries
- Wear appropriate protective clothing and avoid touching your eyes after working with batteries.
- The battery backup kit contains sealed lead-acid batteries that must be disposed of properly at the end of their useful life.

Specifications

Battery Back up Specifications	Garage Door	Swing	Slider
Approximate number of Cycles under battery power	10	10	10
Average Cycle Time under battery power (Opening and Closing)	40 seconds	90 seconds	90 seconds
Wire Gauge and Length from Battery to Charger board (max)	18AWG, 3m	18AWG, 3m	18AWG, 3m
Battery capacity (Amp Hours)	2.3 AH	2.3 AH	2.3 AH
Time for Re-charge	24 - 48 Hours	24 - 48 Hours	24 - 48 Hours

GDO-9V2 GEN2 Enduro, GDO-9V3 GEN2 Dynamo, SDO-2V2 CAD P Diamond, SDO-2V2 CAD Advance, SDO-2V3 CAD Prodigy & SDO-3V2 CAD S



- Unplug the drive unit from mains power.
- Remove screws and swing open the cover.
- Mount the PCB support (15) with two screws (13). Secure the charger board (8) on to PCB support with 3 screws (14).
- Unscrew the 2-wire SBY-2 battery harness (10) from the 2 pin connector on the charger board (8). Feed the 2-wire SBY-2 battery harness (10) through the grommet on the base plate and secure back on the 2 pin connector.
- Remove two (2) screws from the Light Diffuser to access the main control board.
- Remove the shunt from the 5 pin connector on the control board. Feed the charger harness (9) from the charger board (8) through the cover and insert into the 5 pin connector on the main control board.

a. Mount battery pack on side of unit and secure with items ⑪ and ⑫.



WARNING: After Step (b) the opener may become active (even when power is off). This is a result of a residual charge in the batteries.

- b. Connect battery harnesses ⑤ and ⑩ together.
- c. Close the cover, secure the Light Diffuser with 2 screws and reconnect power.

NOTE: Batteries may take up to 48 hours to charge fully after initial installation.

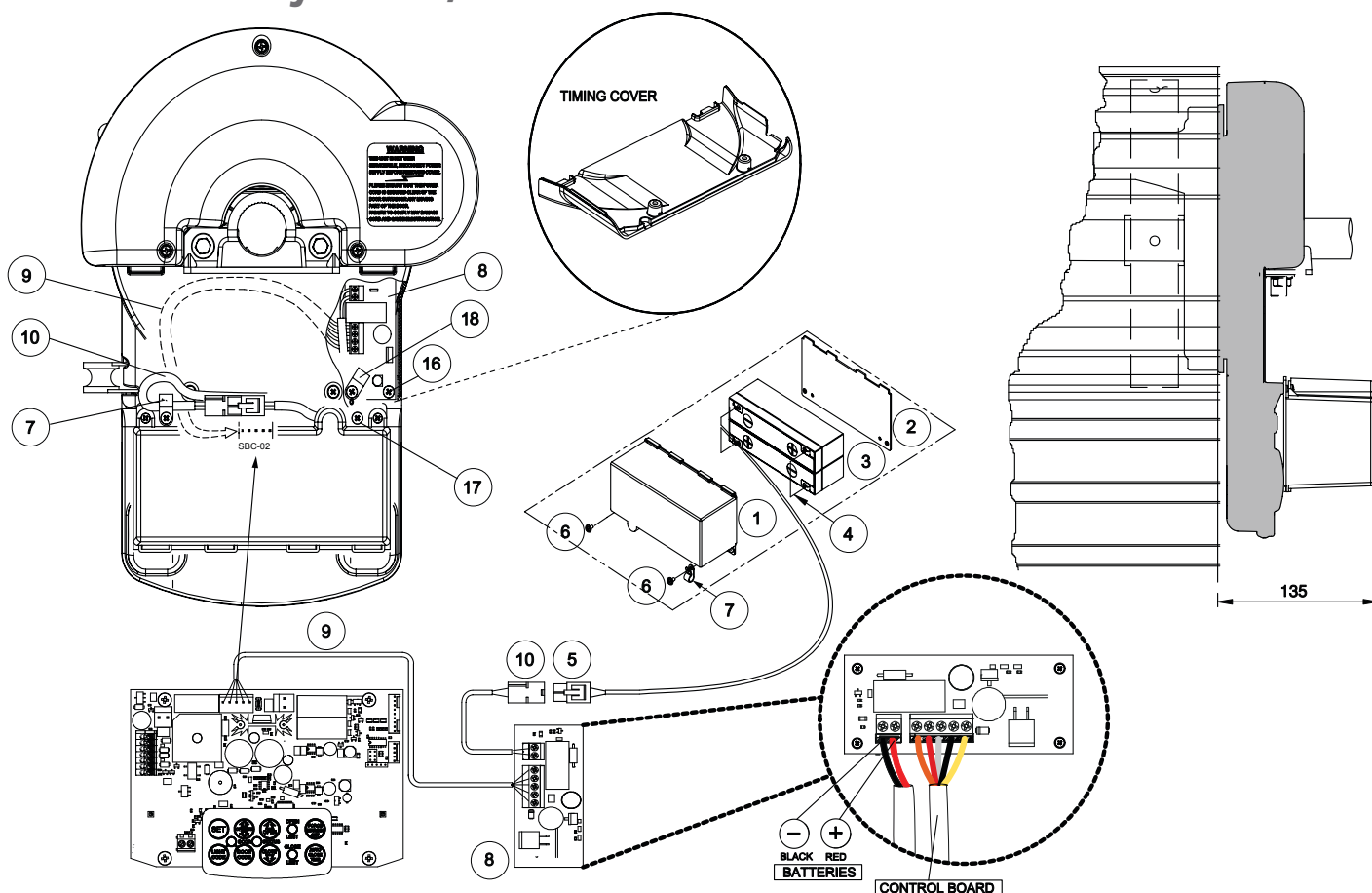
- Reconnect power and remove button cover.
- Press either the OSC button the opener or the programmed transmitter button to test the battery backup installation.
- Whilst door is in motion, disconnect mains power. The door should continue to operate as normal.

NOTE: Wait for the door to complete its travel.

- d. Press either the OSC button on the opener or the programmed transmitter button to activate the door.
- e. Whilst door is in motion, reconnect power and re-install button cover. The door should complete the cycle as normal.

Roll Up Door Opener Set Up

GDO-6V4 EasyRoller®, RDO-1V3 & RDO-1V4



Mount the Charger Board

- Unplug the drive unit from mains power.
- Remove the timing cover and light diffuser.
- Mount the Charger Board (8) on the chassis and secure with four (4) Taptite 'P' M4x8 screws (16).
- Feed the battery harness (5) through the cable clamp (18) and secure left corner of the board. Feed the Wire Harness (9) around the timing assembly, through opening and plug into SBC-02 connector on the control board.
- Remove breakaway slot on timing cover and feed wire battery harness (10) through slot and replace timing cover. Secure in place with screws.

RDO-1V4:

The Charger board is already installed with the unit. Remove the timing cover then proceed to step (e) to remove breakaway slot.

Mount & Connect the Battery

- Mount battery backup kit onto support chassis and secure right side screw first (charger board side) (17).
- Position the wire battery harness (10) neatly and secure left side of battery kit with cable clamp (7).



WARNING: After Step (c) the opener may become active (even when power is off). This is a result of a residual charge in the batteries.

- Connect battery harnesses (5) and (10) together.
- Close the timing cover, light diffuser and reconnect power.

NOTE: Batteries may take up to 48 hours to charge fully after initial installation.

Re-setup and Test the Opener

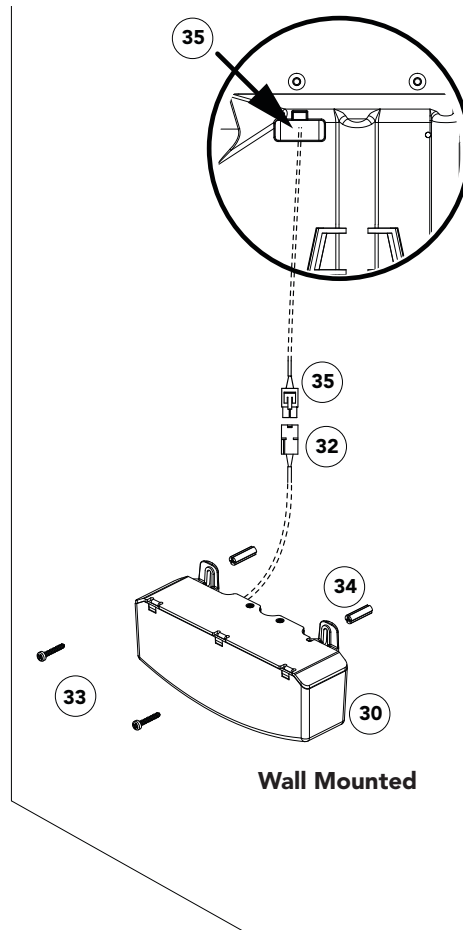
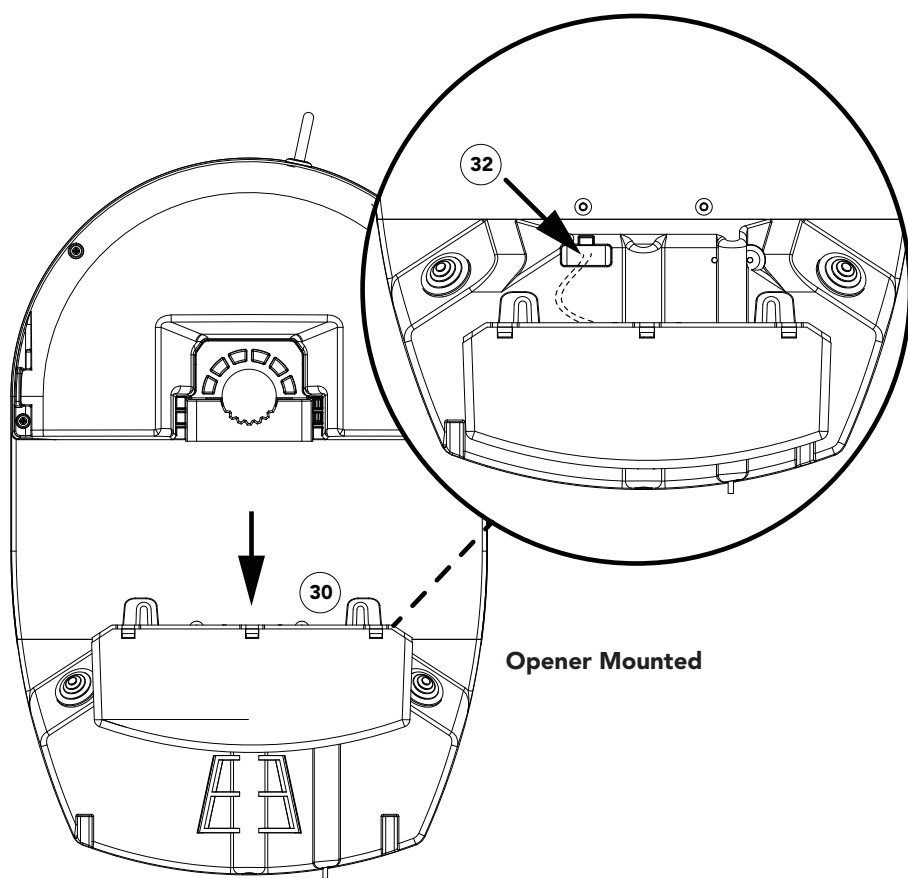
- Reconnect power and remove the button cover.
- Press either the OSC button the opener or the programmed transmitter button to test the battery backup installation.
- Whilst door is in motion, disconnect mains power. The door should continue to operate as normal.

NOTE: Wait for the door to complete its travel.

- Press either the OSC button on the opener or the programmed transmitter button to activate the door.
- Whilst door is in motion, reconnect power and re-install button cover. The door should complete the cycle as normal.

Commercial Door Opener Set Up

GDO-12V1 Hiro



Mount & Connect the Battery

Openers Mounted

- a. Mount battery backup kit (30) onto support chassis by sliding down over the slots.



WARNING: After Step (b) the opener may become active (even when power is off). This is a result of a residual charge in the batteries.

- b. Connect battery harness (32) plug through opening to control board.

Wall Mounted

- a. Connect the battery harness extension (35) plug through the opening in the opener to the control board.
b. To wall mount - use the battery pack as template to mark where to drill holes. Pre-drill holes.
i. For plaster walls - insert (2) two Plast wall plugs (34) into holes, place battery backup kit over holes and affix with (2) two Taptite "P" M3.5 x 8 screws (33).
ii. For brick walls - place the battery backup kit over the holes and affix with (2) two Taptite "P" M3.5 x 8 screws (33).



WARNING: After Step (b) the opener may become active (even when power is off). This is a result of a residual charge in the batteries.

- c. Connect battery harness (32) to the harness extension (35).

NOTE: Batteries may take up to 48 hours to charge fully after initial installation.

Re-setup and Test the Opener

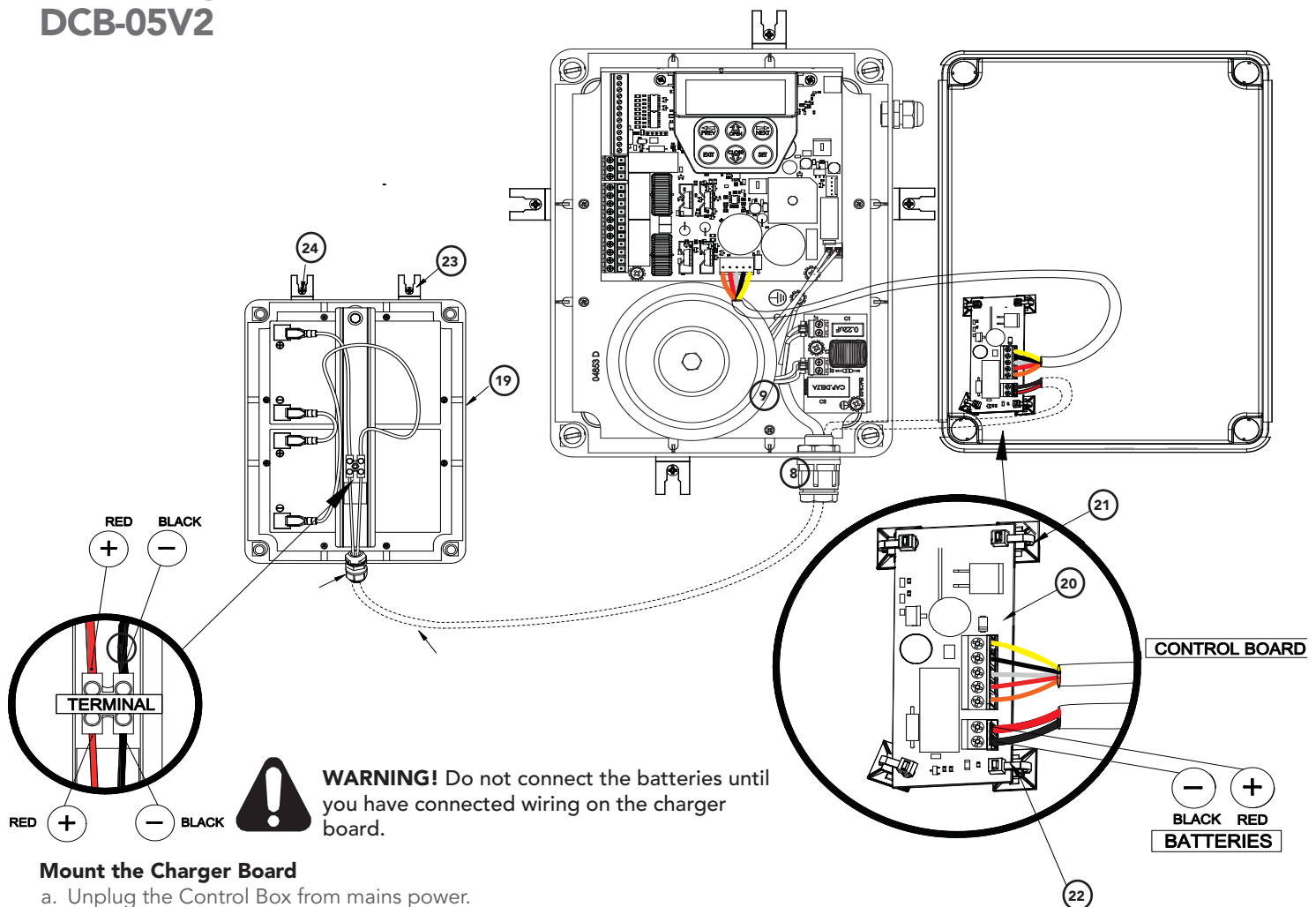
- a. Reconnect power and remove the button cover.
b. Press the programmed transmitter button to test the battery backup installation.
c. Whilst door is in motion, disconnect mains power. The door should continue to operate as normal.

NOTE: Wait for the door to complete its travel.

- d. Press the programmed transmitter button to activate the door.
e. Whilst door is in motion, reconnect power and re-install button cover. The door should complete the cycle as normal.

Swing Gate Opener Set Up

DCB-05V2



Mount the Charger Board

- Unplug the Control Box from mains power.
- Remove the Control Box's cover.
- Secure the adhesive mounts (21) to the Charger Board with cable ties (22). Affix the Charger Board (20) inside the the Control Box cover.
- Plug the Charger Board's five wire harness (orange/red/white/black/yellow) into the DCB-05 board's "SBC-02" connector.



WARNING! The opener will become active during the following steps.

Mount & Connect the Battery

- Drill a hole in the Battery Pack enclosure (recommend at the bottom) and fit a nylon gland (not supplied).
- Mount the Battery Pack (19) using the mounting brackets (23) and screws (24) close to the control box.
- Feed a 2-core 18awg gauge cable (not supplied) through the Battery Box's nylon gland.
- Connect the **red wire** to the Battery Box's "+" terminal, and the **black wire** to the "-" terminal
- Feed the other end of the 2-core 18awg gauge cable through the control box's gland.
- Connect the **red wire** to the Charger Board's Battery Harness "BAT+" connector, and the **black wire** to the "-BAT" connector.

Re-setup and Test the Opener

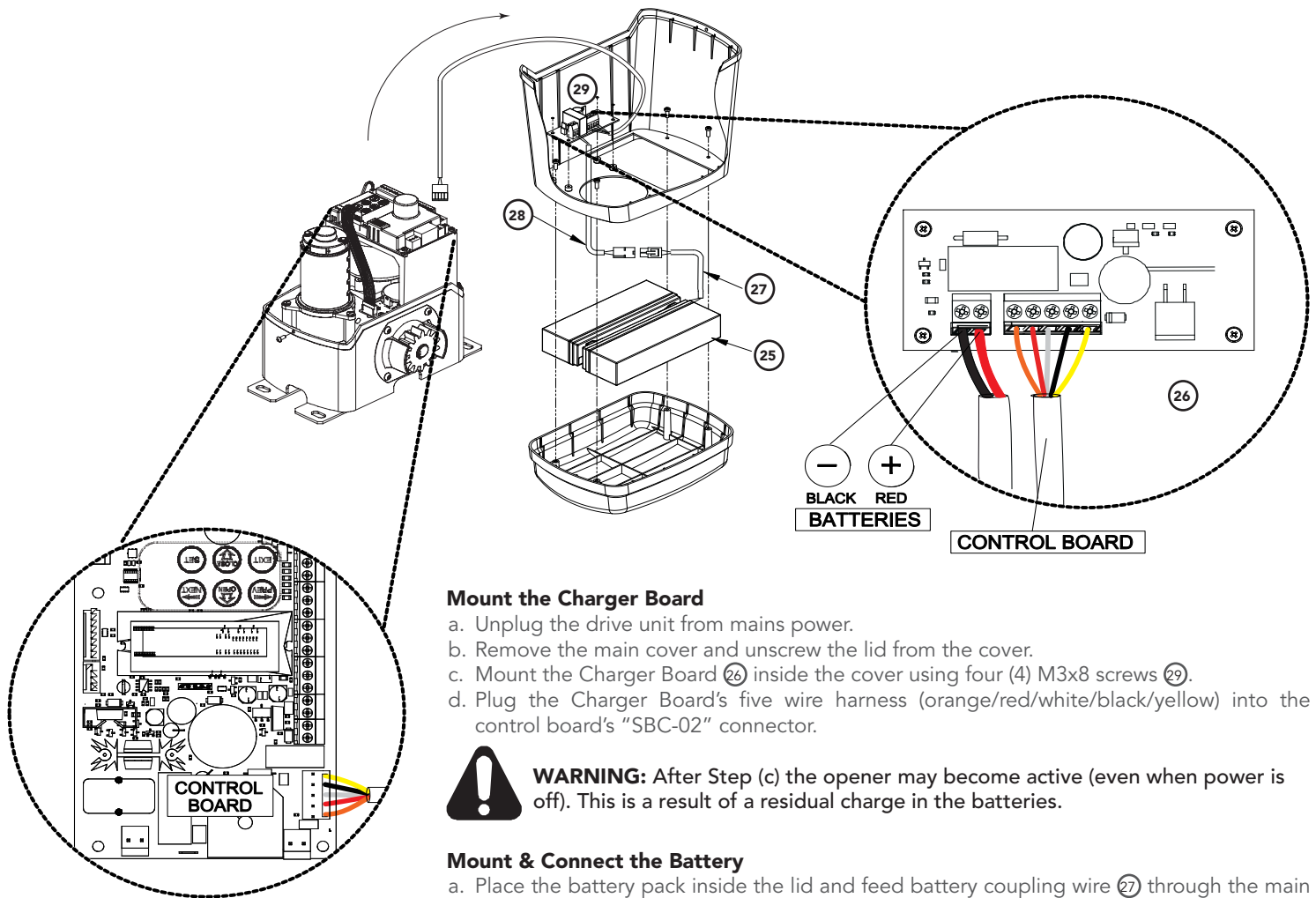
- Reconnect power.
- Select Menu 7 on the DCB-05 control board, press "SET", select Sub Menu 7 ("Battery/Solar") and enable using the "OPEN" and "CLOSE" buttons.
- Setup travel limits and transmitters as per the DCB-05V2 instruction manual.
- Press either "OPEN" or "CLOSE" buttons, or use a transmitter to operate the gate.
- Whilst the gate is in motion, disconnect mains power. The gate should continue to operate as normal.

NOTE: Wait for the gate to complete its travel.

- Press the transmitter to activate the gate. Whilst the gate is in motion re-connect power. The gate should complete the cycle as normal.
- Refit the control box cover.

Sliding Gate Opener Set Up

NeoSlider™V2, NeoSlider™V3



Troubleshooting

Symptom	Possible cause	Remedy
Door stops or moves very slowly under battery power	Batteries may be weak or have no charge	Connect mains power and allow the batteries to charge. This may take 24 - 48 hours to reach maximum charge capacity.
Door will not operate when mains power is disconnected.	Batteries / charger board may not be connected properly.	Check wiring.
	Batteries may have no charge	Connect mains power and allow the batteries to charge. This may take 24 - 48 hours to reach maximum charge capacity.
	Faulty Charger board	Disconnect the charger board from batteries and control board. Check voltage of the charger board. Voltage should be approximately 27.5V.
	Faulty Batteries	Disconnect the batteries from the charger board. Check the voltage of the each battery. Voltage should not drop below 10V.

Maintenance

To ensure a long trouble free life for your battery backup it is recommended you run the testing procedure on a monthly basis. Batteries should not need replacing for 4 - 5 years.

Testing Procedure:

- Press the transmitter to activate the opener.
- Whilst the door / gate is in motion disconnect power. The door / gate should complete the cycle as normal.
- Wait for the door / gate to finish its travel.
- Press the transmitter to activate the opener.
- Whilst the door / gate is in motion reconnect power. If the door / gate stopped or moved very slowly under battery power, ensure mains power is connected for 24 - 48 hours to recharge the batteries. Test the opener again under battery power to ensure batteries are working effectively.

Warranty

WARRANTY	
ACCESSORIES	1 year

This warranty is to be read in conjunction with the owner's copy of the opener installation instruction.

automatic
TECHNOLOGY

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