DC2000 Back-Up Wiring for the OmniControl™ Board with Optional Equipment

c UL us LISTED — CLASS I, II, III, IV

System Setup

"Manual" setting: The DC2000 will respond to the input devices wired to the J 20 socket.

This mode can also be used as an emergency override. If 115 Vac power is on, but the system has an electronic malfunction, the gate can be operated using the DC2000 system with input devices wired to J 20 socket.

"Auto" setting: The DC2000 opens the gate automatically upon 115 Vac power failure and stays open. When 115 Vac power is restored, the gate operator will return to normal operation. (The gate can be closed by manual command)

	115 Vac Power Failure	115 Vac Power On, OmniControl™ Board Malfunction	115 Vac Power On, Emergency Override
Manual Mode	Push and Hold to operate gate	Turn the 115 Vac power off then push and Hold to operate gate	Push and Hold to override the OmniControl board
Auto Mode	Gate automatically opens	Turn the 115 Vac power off then gate opens automatically	Push and Hold to override the OmniControl board

EMERGENCY OVERRIDE

If 115 Vac power is on, but the system has an electronic malfunction, the gate can be operated using the DC2000 system with ANY of these optional devices shown.

Important:

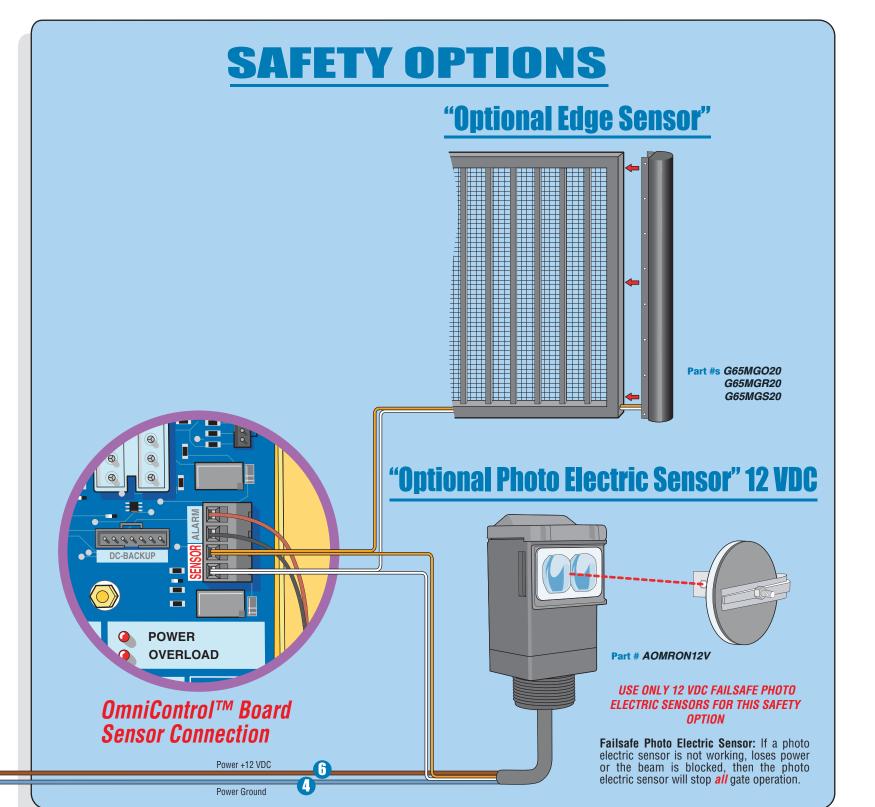All devices wired to the DC2000 MUST be dedicated to it alone. Normal operation will be controlled by separate devices wired to the OmniControl™ board.

SAFETY OPTIONS

"Optional Edge Sensor"

Part #s G65MGO20 G65MGR20 G65MGS20

"Optional Photo Electric Sensor" 12 VDC

Part # AOMRON12V

USE ONLY 12 VDC FAILSAFE PHOTO ELECTRIC SENSORS FOR THIS SAFETY OPTION

OmniControl™ Board Sensor Connection

Failsafe Photo Electric Sensor: If a photo electric sensor is not working, loses power or the beam is blocked, then the photo electric sensor will stop all gate operation.

Power +12 VDC ⑥
Power Ground ④

POWER
OVERLOAD

"Optional Manual One-Button"

Push and *"Hold"* to Open
Push again and *"Hold"* to Close

Part # AEXITP

④ ⑤

If the DC2000 is automatically opening the gate due to a power failure, any manual command such as "Manual One-Button", "Three Push Button", "Key Switch", "Photocell" or "Edge Sensor" will cancel the automatic mode of the DC2000. After such cancellation, the DC2000 will continue to operate in manual mode until 115 Vac power is restored.

DO NOT wire 115 Vac power to the DC2000

J 20 Socket

③ ④
Stop/Reset Button Wire

"Optional Key Switch"

Part # A1KX

↻ Turn and *"Hold"* to Open
↺ Turn again and *"Hold"* to Close

⑤ ④

To Limit Switches

③ ④ Factory installed Stop/Reset Button Wires to J20 Socket
Cut and Discard Plug

"Optional Three-Button"

N.O. ③	STOP	④ Com
N.O. ②	CLOSE	④ Com
N.O. ①	OPEN	④ Com

Part # 02-103

Push and *"Hold"* a Button to operate

Factory Installed Stop/Reset Button

DO NOT remove existing wires from the audio alarm or secondary protection sensor.

J5
J5 DC-BACKUP
SENSOR ALARM

Red Wire
White Wire
Audio Alarm Wires

POWER OVERLOAD

Green and Purple wires wrap behind board to the limit switches

DC2000 Harness

"Optional Radio Receiver"

Part # 312HM
LiftMaster Professional
Separate 12 VDC DC2000 Radio Receiver

Refer to Receiver Manual for Further Details about settings.

Jumper P2: to Constant (C)
Jumper P3: to 12 Volt

④ ⑤ ⑥

Button Two: Back-Up Operation ONLY (DC2000)

Push and *"Hold"* DC2000 Transmitter Button to Open
Push again and *"Hold"* DC2000 Transmitter Button to Close

Button Three: Optional Accessories

Button One: Normal Gate Operation Only (OmniControl™ Board)

Part # 373LM

LiftMaster Professional
24 VDC Factory Installed Radio Receiver

Button One: Normal Gate Operation Only (OmniControl™ Board)

⑬ ⑫ ⑪ ⑫

Radio Receiver (+) ⑬
⑫
⑪
Radio Receiver (−) ⑪

OmniControl Surge Suppressor

CENTER SAFETY EXIT
ADVANCER reversing sensor
SYSTEM ON

For Technical Support and Ordering Parts:
1-800-528-2806

01-51129C

CHAMBERLAIN® ELITE™

845 Larch Avenue Elmhurst, Illinois 60126
www.chamberlain.com

DC2000 Back-Up Installation for CSW200UL™ models

c(UL)us LISTED **CLASS I, II, III, IV**

Single Motor Step-by-Step DC2000 Installation

STEP 1
⚠ **Disconnect POWER!**
- Ⓐ Remove existing belt.
- Ⓑ Bolt the DC2000 plate securely to the lower gearbox.

STEP 2
- Ⓐ Place and secure the DC2000 control unit as shown.
- Ⓑ Insert the plastic "snap bushing" provided into chassis hole.
- Ⓒ Feed the black and red wires from the DC2000 through plastic bushing.

DC2000 Mounting Hole
Use **ONLY**
½" long bolt (¼" x 20)

WARNING!
Battery
⚠ Longer bolt WILL result in DC2000 battery damage!

STEP 3
- Ⓐ Bolt the DC motor to the plate but **do not tighten it.**
- Ⓑ Install the 4L 240 belt provided. Make sure that all the pulleys are aligned.
- Ⓒ Pull the DC motor to adjust the belt tension and tighten the bolts to secure the motor.
- Ⓓ Connect the DC motor wires to the DC2000 control unit wires.
  Red to Red and Black to Black

Use 4L 240 Belt

⚠ **Do not over tighten belt**

STEP 4
- Ⓐ Remove the OmniControl™ board from the electrical box.
- Ⓑ Feed DC2000 harness down behind electrical box. Then feed harness up through hole in bottom of electrical box.
- Ⓒ Feed green, purple and Stop/Reset button wires through the top back hole of electrical box.

STEP 5
- Ⓐ Reinstall the OmniControl™ board and make sure that the green, purple and Stop/Reset button wires do not get pinched by the board.
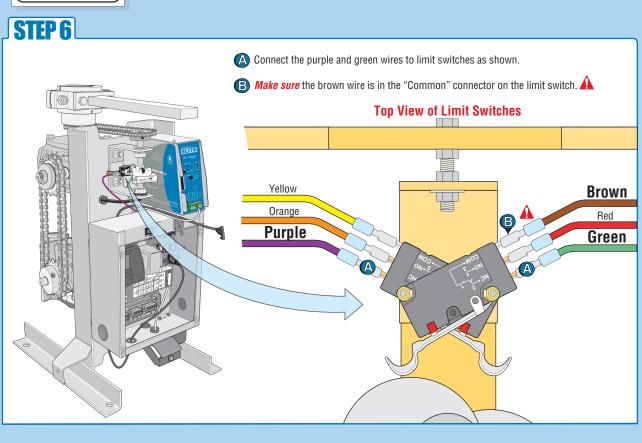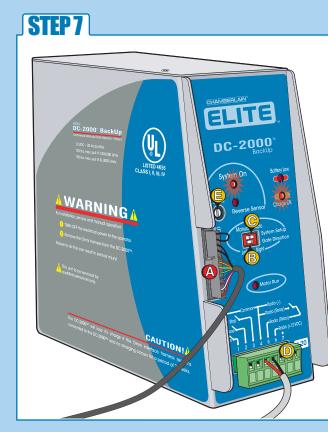- Ⓑ Cut plug off and strip wires from Stop/Reset Button. Insert **Red** wire in J20 socket **3** and **Black** wire into socket **4.**
- Ⓒ Plug in the DC2000 harness in the DC-BackUp J5 slot on the OmniControl™ board.
- Ⓓ Connect the red wire from the DC2000 harness into the top slot of the audio alarm plug.
  (DO NOT remove audio alarm wires)
- Ⓔ Connect the white wire from the DC2000 harness into the bottom slot of the sensor plug.

Discard Plug

J5 DC-BACKUP SENSOR ALARM
POWER OVERLOAD

STEP 6
- Ⓐ Connect the purple and green wires to limit switches as shown.
- Ⓑ *Make sure* the brown wire is in the "Common" connector on the limit switch. ⚠

Top View of Limit Switches

Yellow
Orange
Purple
Brown
Red
Green

STEP 7
- Ⓐ ⚠ **Caution!**
  Plug the 12 pin connector into the DC2000 control unit. Make sure the **"System ON"** and **"Charge OK"** LEDs are lit. If the **"Battery Low"** led comes on, the battery needs to charge before it can be used.
- Ⓑ Set the gate direction switch same as the gate operator is set. (Open left or Open right)
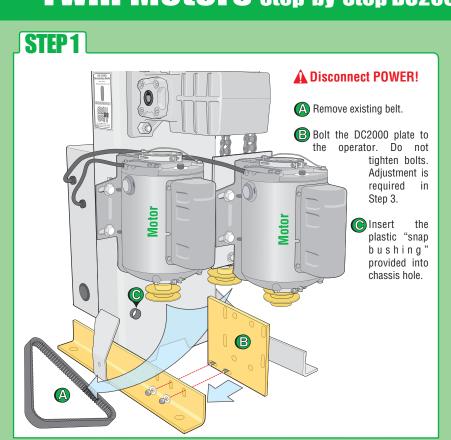- Ⓒ Select your mode of operation for the DC2000 unit. (Automatic open or Manual open, see back page.)
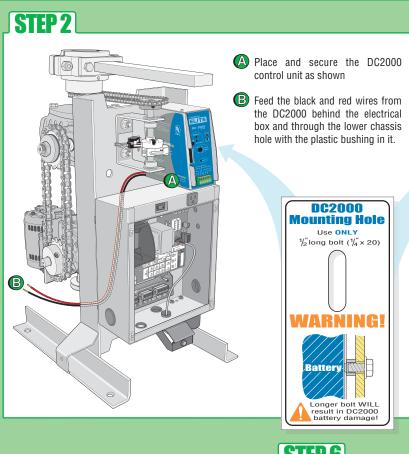- Ⓓ Permanently wire optional controls according to label on control unit. (See back page)
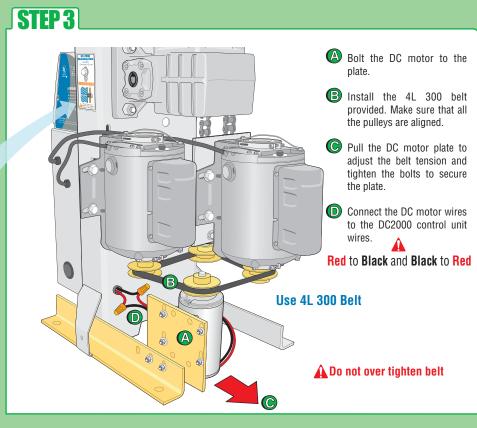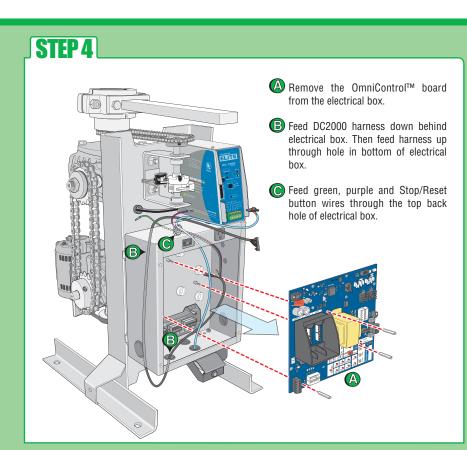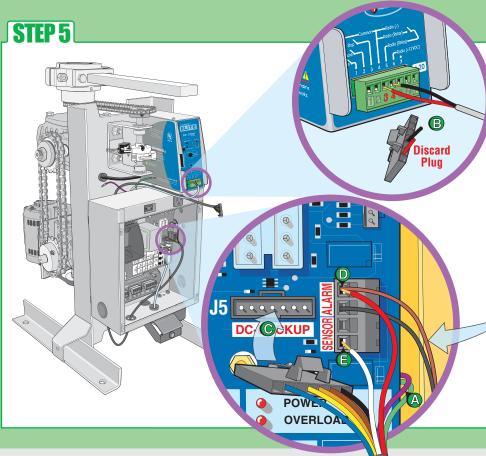- Ⓔ Adjust the sensitivity for the reverse sensor.

⚠ **Reconnect POWER!**

ELITE DC-2000 BackUp
WARNING

Twin Motors Step-by-Step DC2000 Installation

STEP 1
⚠ **Disconnect POWER!**
- Ⓐ Remove existing belt.
- Ⓑ Bolt the DC2000 plate to the operator. Do not tighten bolts. Adjustment is required in Step 3.
- Ⓒ Insert the plastic "snap bushing" provided into chassis hole.

STEP 2
- Ⓐ Place and secure the DC2000 control unit as shown
- Ⓑ Feed the black and red wires from the DC2000 behind the electrical box and through the lower chassis hole with the plastic bushing in it.

DC2000 Mounting Hole
Use **ONLY**
½" long bolt (¼" x 20)

WARNING!
Battery
⚠ Longer bolt WILL result in DC2000 battery damage!

STEP 3
- Ⓐ Bolt the DC motor to the plate.
- Ⓑ Install the 4L 300 belt provided. Make sure that all the pulleys are aligned.
- Ⓒ Pull the DC motor plate to adjust the belt tension and tighten the bolts to secure the plate.
- Ⓓ Connect the DC motor wires to the DC2000 control unit wires.
  Red to Black and Black to Red

Use 4L 300 Belt

⚠ **Do not over tighten belt**

STEP 4
- Ⓐ Remove the OmniControl™ board from the electrical box.
- Ⓑ Feed DC2000 harness down behind electrical box. Then feed harness up through hole in bottom of electrical box.
- Ⓒ Feed green, purple and Stop/Reset button wires through the top back hole of electrical box.

STEP 5
- Ⓐ Reinstall the OmniControl™ board and make sure that the green, purple and Stop/Reset button wires do not get pinched by the board.
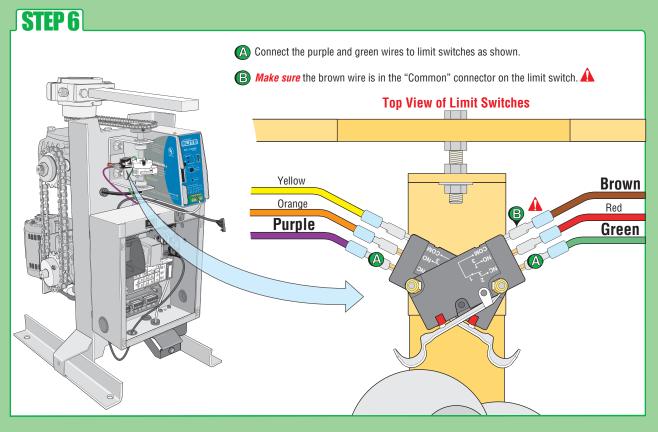- Ⓑ Cut plug off and strip wires from Stop/Reset Button wire. Insert **Red** wire in J20 socket **3** and **Black** wire into socket **4.**
- Ⓒ Plug in the DC2000 harness in the DC-BackUp J5 slot on the OmniControl™ board.
- Ⓓ Connect the red wire from the DC2000 harness into the top slot of the audio alarm plug.
  (DO NOT remove audio alarm wires)
- Ⓔ Connect the white wire from the DC2000 harness into the bottom slot of the sensor plug.

Discard Plug

J5 DC-BACKUP SENSOR ALARM
POWER OVERLOAD

STEP 6
- Ⓐ Connect the purple and green wires to limit switches as shown.
- Ⓑ *Make sure* the brown wire is in the "Common" connector on the limit switch. ⚠

Top View of Limit Switches

Yellow
Orange
Purple
Brown
Red
Green

STEP 7
- Ⓐ ⚠ **Caution!**
  Plug the 12 pin connector into the DC2000 control unit. Make sure the **"System ON"** and **"Charge OK"** LEDs are lit. If the **"Battery Low"** led comes on, the battery needs to charge before it can be used.
- Ⓑ Set the gate direction switch the same as the gate operator is set. (Open left or Open right)
- Ⓒ Select your mode of operation for the DC2000 unit. (Automatic open or Manual open, see back page.)
- Ⓓ Permanently wire optional controls according to label on control unit. (See back page)
- Ⓔ Adjust the sensitivity for the reverse sensor.

⚠ **Reconnect POWER!**

ELITE DC-2000 BackUp
WARNING

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845 Larch Avenue Elmhurst, Illinois 60126
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