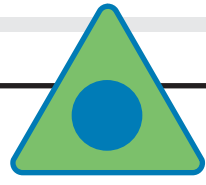# DC2000 Back-Up Wiring for the OmniControl™ Board with Optional Equipment

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)
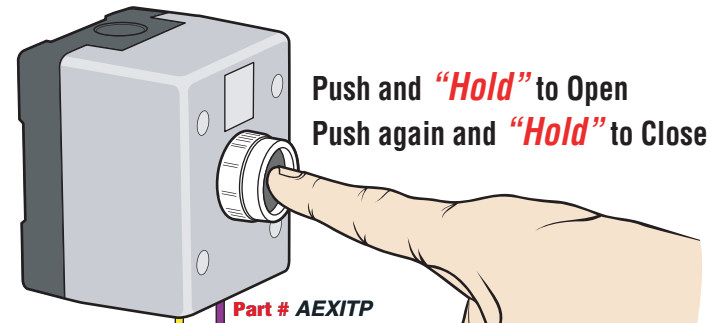
|	115 Vac Power Failure	115 Vac Power On, OmniControl Board™ Malfunction	115 Vac Power On, Emergency Override
Manual Mode	Push and Hold to operate gate	Turn the 115 Vac power off then push and Hold to operate gate	Push and Hold to override the OmniControl™ Board
Auto Mode	Gate automatically opens	Turn 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 devices shown.
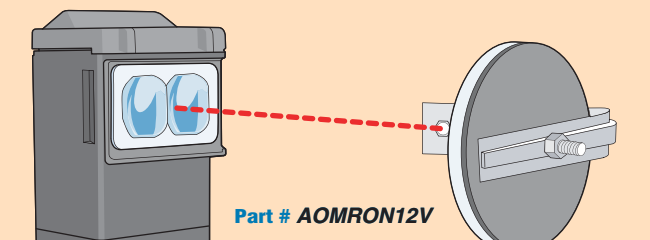
SAFETY OPTIONS

"Optional Edge Sensor"
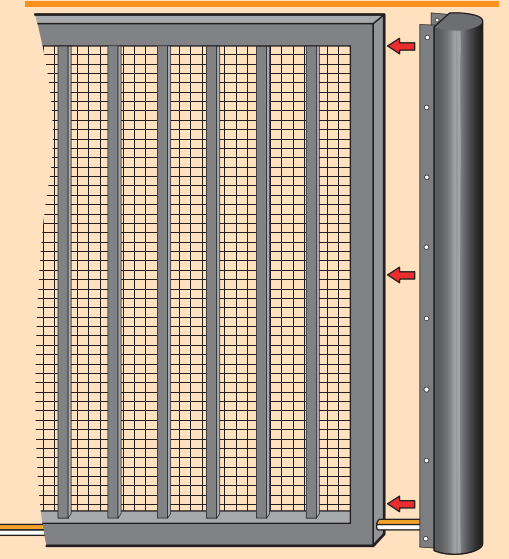
"Optional Photocell Sensor" 12 VDC

Part # AOMRON12V

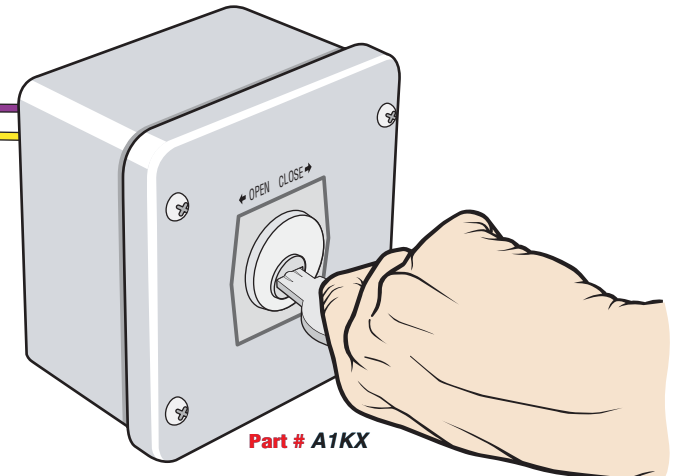**USE ONLY 12 VDC FAILSAFE PHOTOCELL SENSORS FOR THIS SAFETY OPTION**

Failsafe Photocell: If a photocell is not working or loses power or photo beam is blocked, then the photocell will stop *all* gate operation.

OmniControl™ Board Sensor Connection

POWER
OVERLOAD
SENSOR ALARM
DC-BACKUP

Power Ground
Power +12 VDC

"Optional Manual One-Button"

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

Part # AEXITP

CHAMBERLAIN ELITE
DC-2000™ BackUp
WARNING
CAUTION!

DC2000 Harness

DO NOT wire 115 Vac power to the DC2000

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.
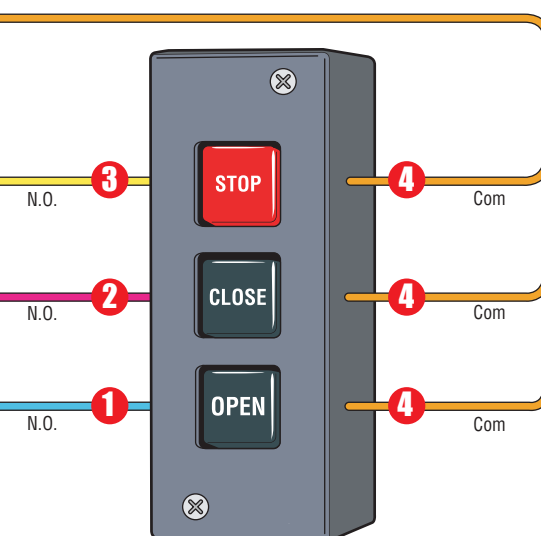
J 20 Socket
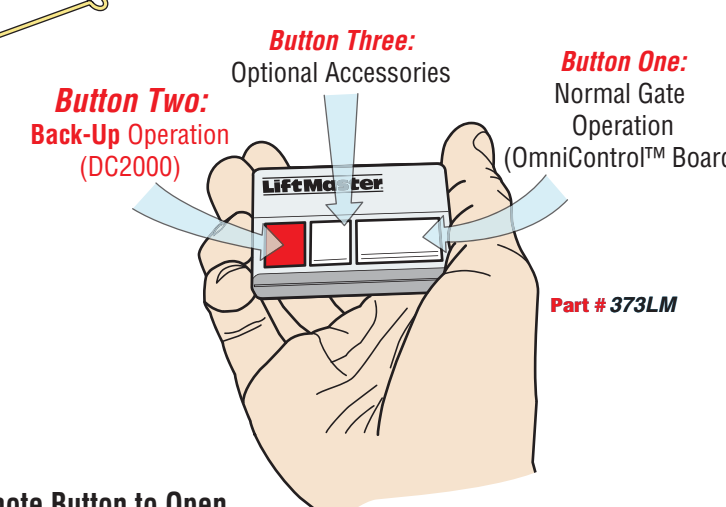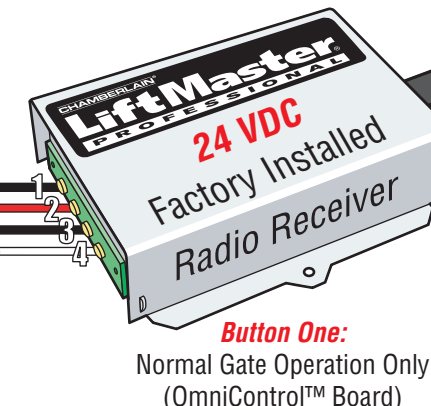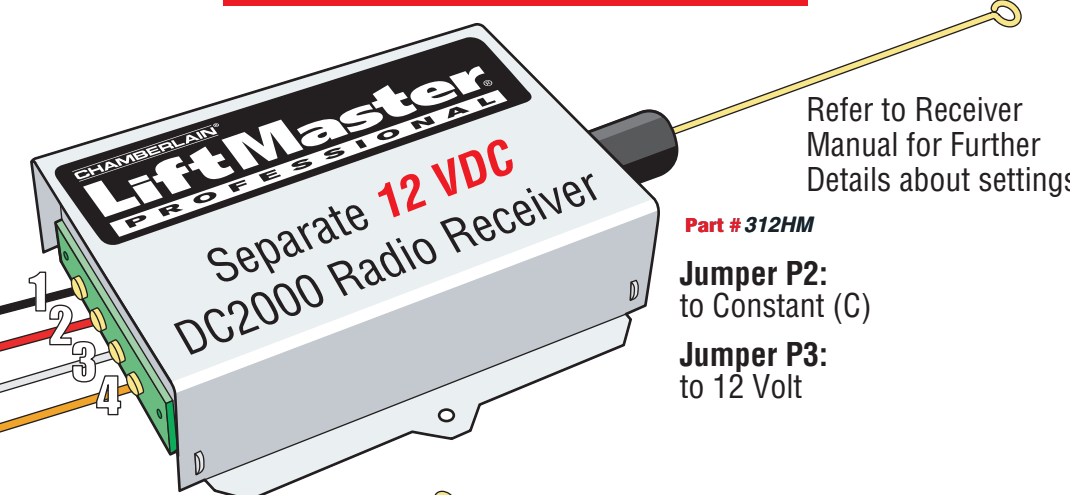
"Optional Key Switch"

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

Part # A1KX

Interlock Assembly

Interlock Assembly Wire

To Limit Switches

OFF ON
CENTER SAFETY EXIT
ADVANCED reversing sensor
SYSTEM ON
ELITE OmniControl Surge Suppressor
Class 2 Supply

"Optional Three-Button"

N.O.	STOP	Com
N.O.	CLOSE	Com
N.O.	OPEN	Com

Push and *"Hold"* a Button to operate

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

J5
J5 DC-BACKUP
SENSOR ALARM
POWER OVERLOAD

Red Wire
White Wire
Audio Alarm Wires
Green and Purple wires wrap behind board to the limit switches

DC2000 Harness

Cut and Discard Plug

Factory installed Interlock Assembly Wires to J20 Socket

"Optional Radio Receivers"

CHAMBERLAIN LiftMaster PROFESSIONAL
Separate 12 VDC DC2000 Radio Receiver
Part # 312HM

Refer to Receiver Manual for Further Details about settings.

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

CHAMBERLAIN LiftMaster PROFESSIONAL
24 VDC Factory Installed Radio Receiver

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

Button Three: Optional Accessories
Button Two: Back-Up Operation (DC2000)
Button One: Normal Gate Operation (OmniControl™ Board)

LiftMaster
Part # 373LM

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

Radio Receiver (+)
Radio Receiver (−)

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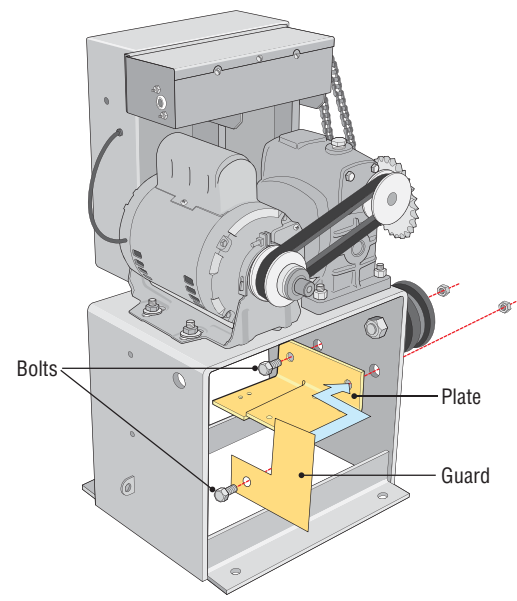**1-800-528-2806**

DC2000 Back-Up Installation for SL3000UL™ models

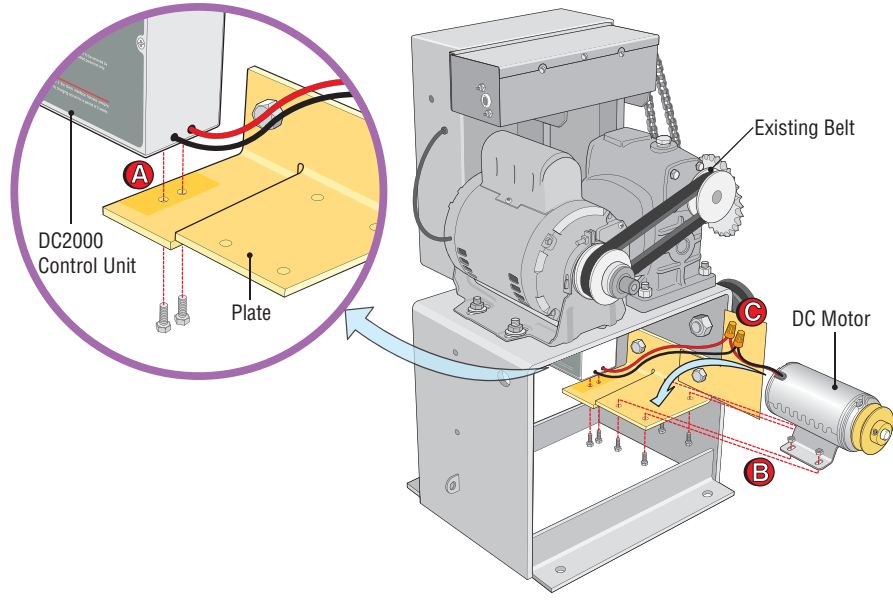## SL3000UL™ & SL3000ULDM™ Step-by-Step DC2000 Installation

STEP 1
Bolt the DC2000 plate and guard to the operator chassis. Do not tighten the bolts. Adjustment is required in Step 3.
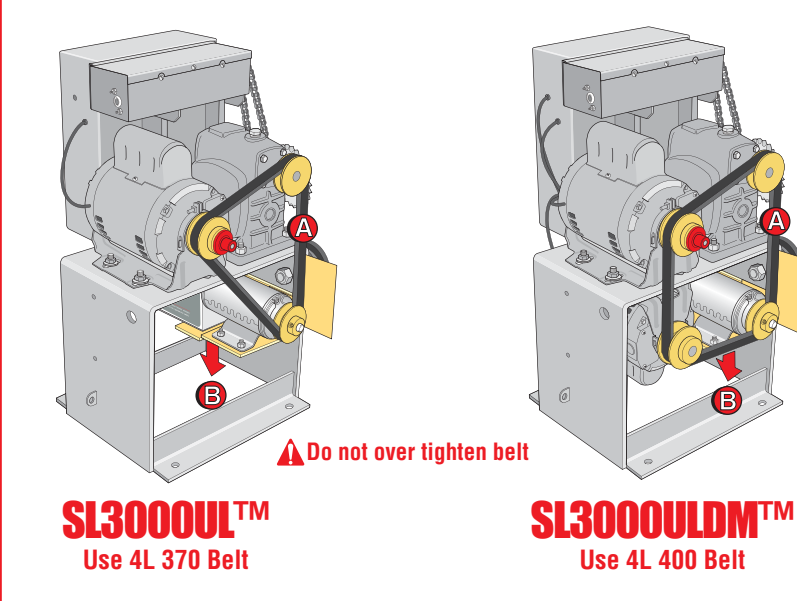
Bolts
Plate
Guard

STEP 2
Ⓐ Bolt the DC2000 control unit to the plate.
Ⓑ Bolt the DC motor to the plate.
Ⓒ Connect the DC motor wires to the DC2000 control unit wires. **Red** to **Red** and **Black** to **Black**.
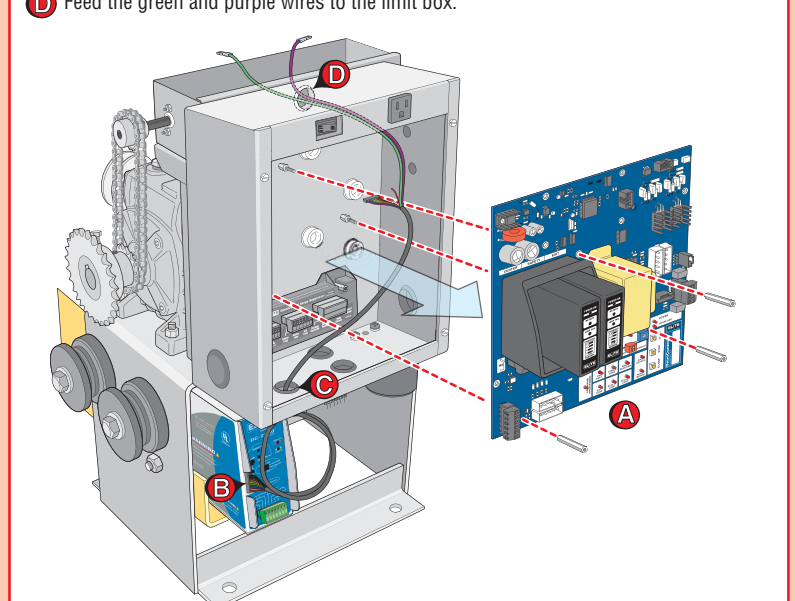
Existing Belt
DC2000 Control Unit
Plate
DC Motor

STEP 3
Ⓐ Replace the existing belt with the new belt provided. Make sure that the pulleys are aligned.
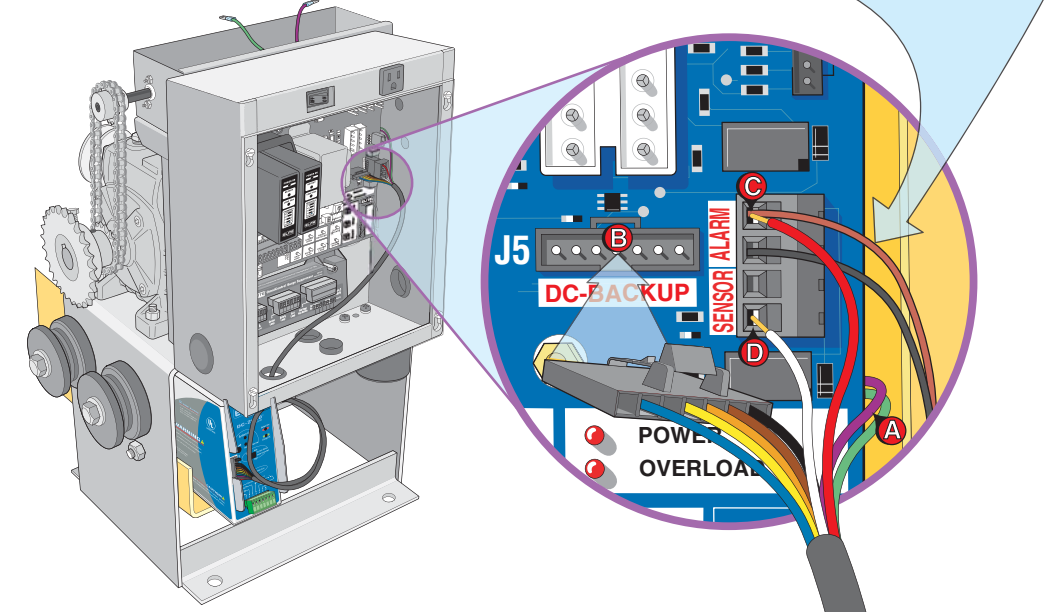Ⓑ Pull down the DC2000 Plate to tighten the belt tension. Tighten the plate bolts to secure the plate.

⚠ Do not over tighten belt

SL3000UL™
Use 4L 370 Belt

SL3000ULDM™
Use 4L 400 Belt

STEP 4
Ⓐ Remove the OmniControl™ board from the electrical box.
Ⓑ Plug in the DC2000 harness into the DC2000 control unit.
Ⓒ Feed the DC2000 harness through the bottom of the electrical box.
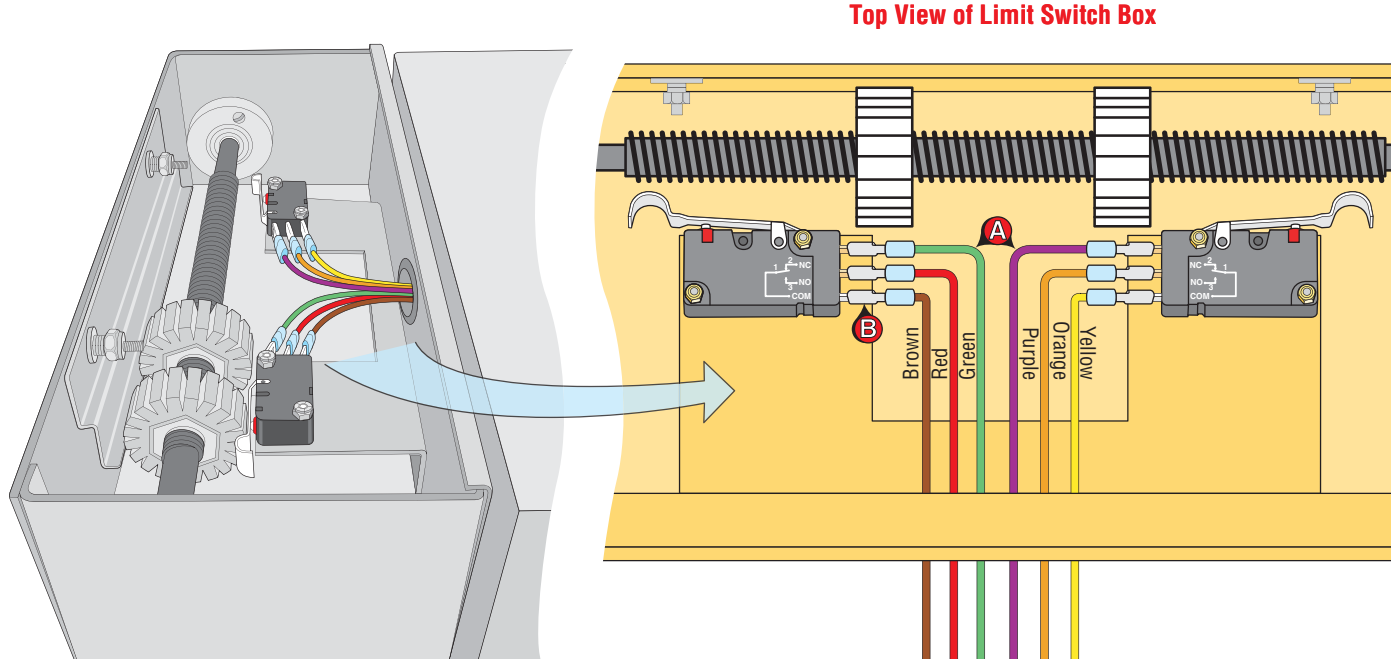Ⓓ Feed the green and purple wires to the limit box.

STEP 5
Ⓐ Reinstall the OmniControl™ board and make sure that the green and purple wires do not get pinched by the board.
Ⓑ 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.

J5
DC-BACKUP
SENSOR ALARM
POWER
OVERLOAD

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

Top View of Limit Switch Box

Brown
Red
Green
Purple
Orange
Yellow

STEP 7
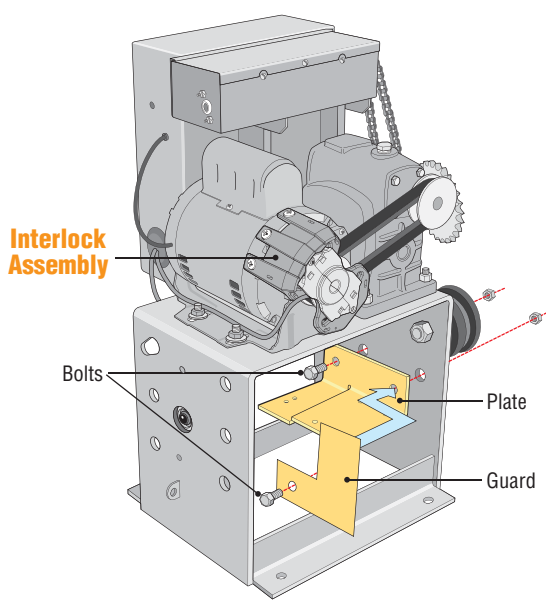Ⓐ Set switch for the gate direction. (Open left or Open right)
Ⓑ Select your mode of operation for the DC2000 unit. (Automatic open or Manual open)
Ⓒ Permanently wire optional controls according to label on control unit. (See back page)
Ⓓ Adjust the sensitivity for the reverse sensor.

ELITE
DC-2000
⚠ WARNING ⚠

## SL3000UL™ & SL3000ULDM™ with Interlock Assembly Step-by-Step DC2000 Installation

STEP 1
Bolt the DC2000 plate and guard to the operator chassis. Do not tighten the bolts. Adjustment is required in Step 3.

Interlock Assembly
Bolts
Plate
Guard

STEP 2
Ⓐ Bolt the DC2000 control unit to the plate.
Ⓑ Bolt the DC motor to the plate.
Ⓒ Connect the DC motor wires to the DC2000 control unit wires. **Red** to **Red** and **Black** to **Black**.
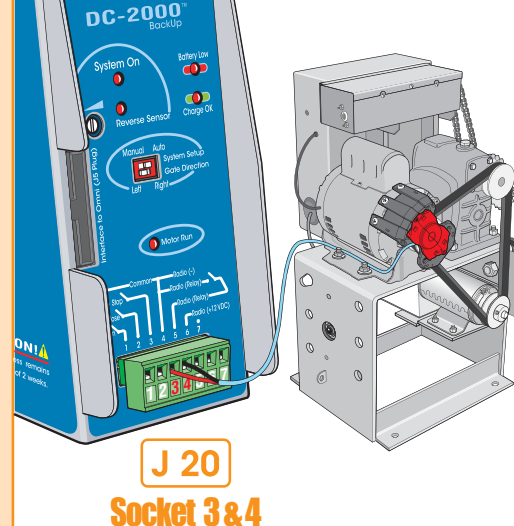
Existing Belt
DC2000 Control Unit
Plate
DC Motor
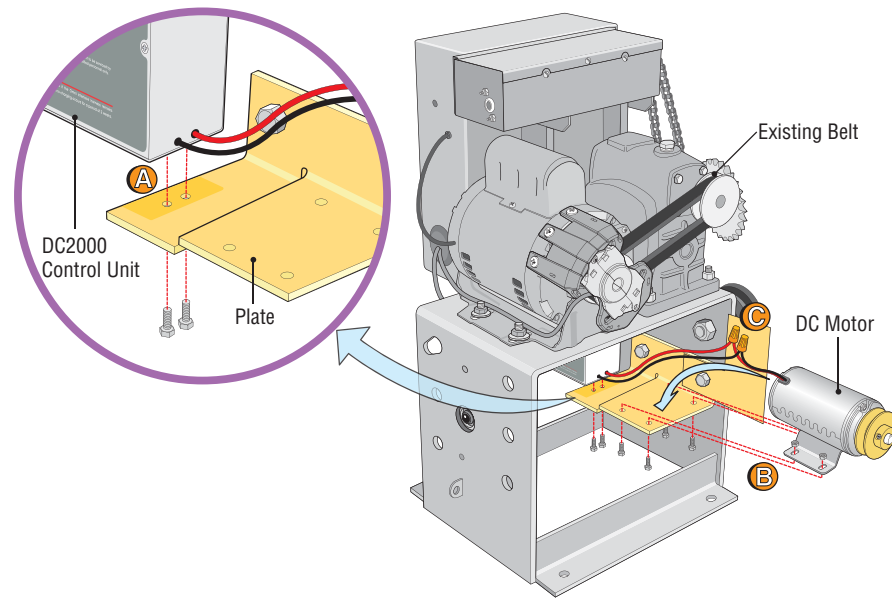
STEP 3
Ⓐ Remove interlock assembly from motor with 3 screws.
Ⓑ Replace the existing belt with the new belt provided. Make sure that the pulleys are aligned.
Ⓒ Pull down the DC2000 Plate to tighten the belt tension. Tighten the plate bolts to secure the plate.
Ⓐ Reattach interlock assembly.

⚠ Do not over tighten belt

SL3000UL™
Use 4L 370 Belt
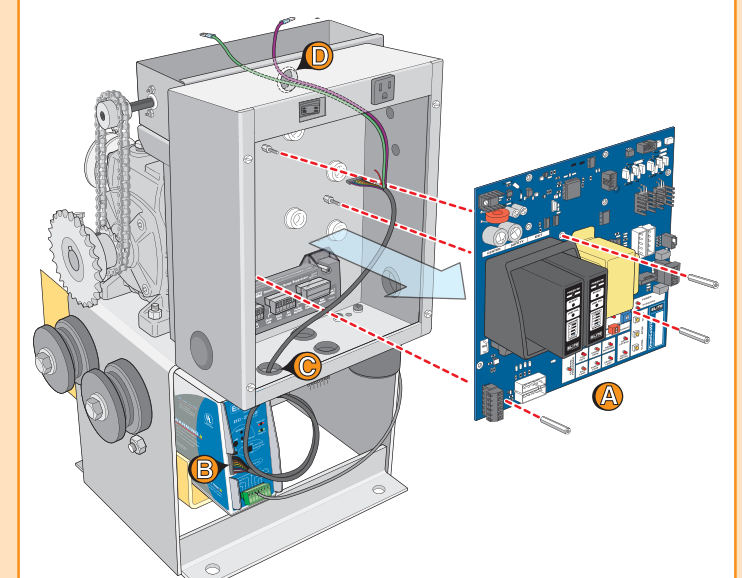
SL3000ULDM™
Use 4L 400 Belt
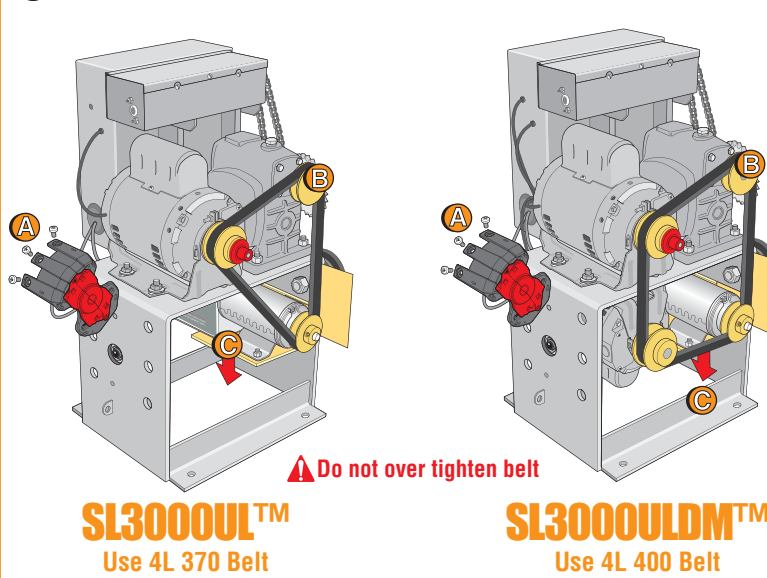
STEP 4
Unplug interlock wire from OmniControl board, cut the plug off and strip wires. Insert **Red** wire in J-20 socket **3** and **Black** wire into socket **4** of the DC2000.
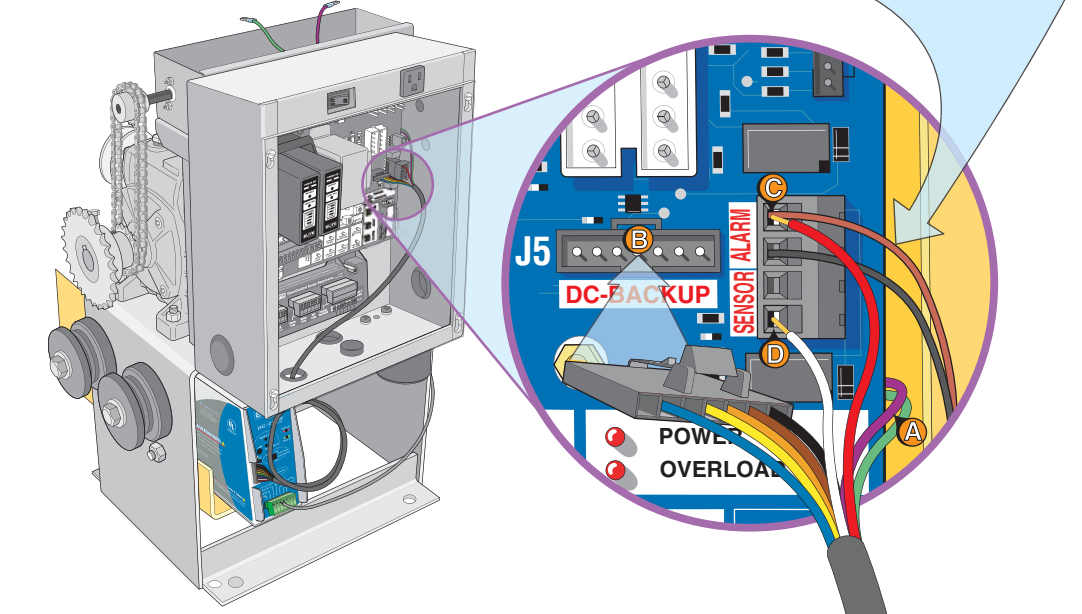
ELITE
DC-2000

J 20
Socket 3 & 4

STEP 5
Ⓐ Remove the OmniControl™ board from the electrical box.
Ⓑ Plug in the DC2000 harness into the DC2000 control unit.
Ⓒ Feed the DC2000 harness through the bottom of the electrical box.
Ⓓ Feed the green and purple wires to the limit box.

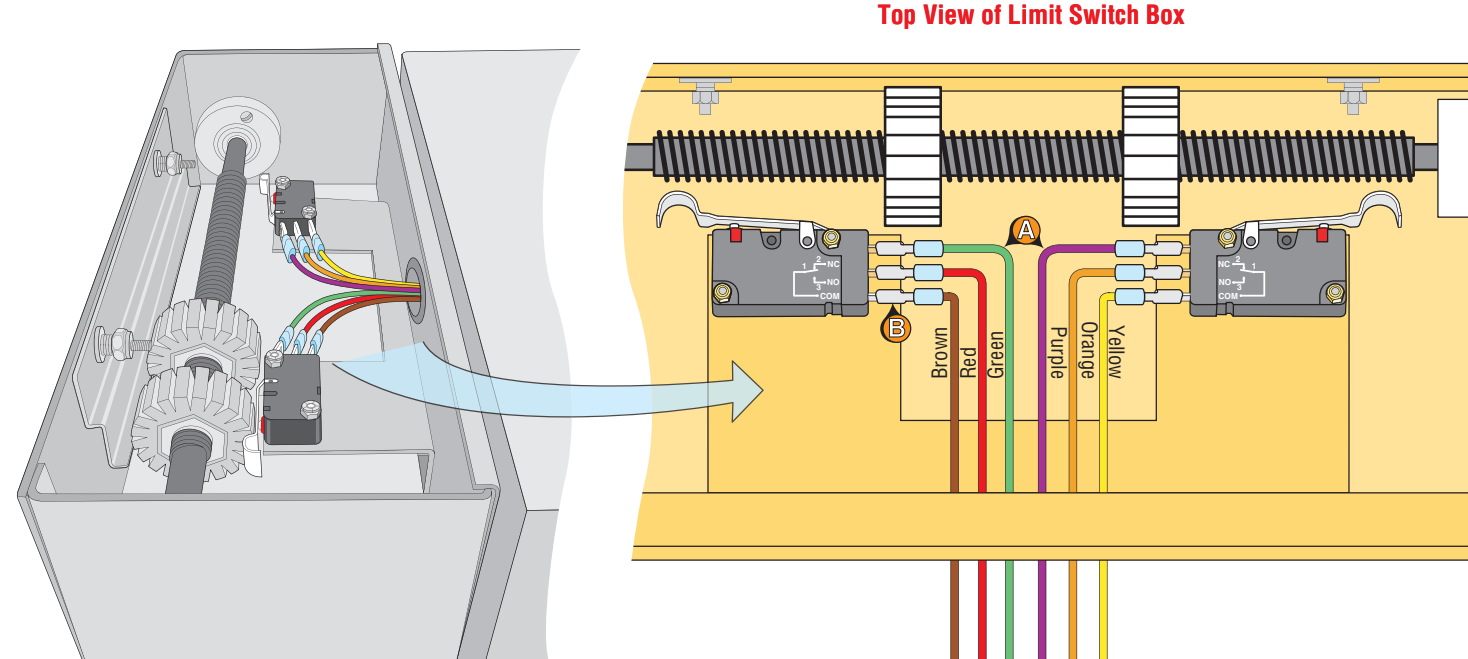### STEP 6
Ⓐ Reinstall the OmniControl™ board and make sure that the green and purple wires do not get pinched by the board.
Ⓑ Plug in the DC2000 harness in the DC-BackUp J5 slot on the OmniControl™ board.
Ⓒ Connect the red wire from the DC2000 harness into the top slot of the audio alarm plug. **(DO NOT remove audio alarm wires)**
Ⓓ Connect the white wire from the DC2000 harness into the bottom slot of the sensor plug.

J5
DC-BACKUP
SENSOR ALARM
POWER
OVERLOAD

STEP 7
Ⓐ Connect the purple and green wires to the limit switches.
Ⓑ Make sure brown wire is in the "Common" connector on the limit switch. ⚠

Top View of Limit Switch Box

Brown
Red
Green
Purple
Orange
Yellow

STEP 8
Ⓐ Set switch for the gate direction. (Open left or Open right)
Ⓑ Select your mode of operation for the DC2000 unit. (Automatic open or Manual open)
Ⓒ Permanently wire optional controls according to label on control unit. (See back page)
Ⓓ Adjust the sensitivity for the reverse sensor.

ELITE
DC-2000
⚠ WARNING ⚠

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