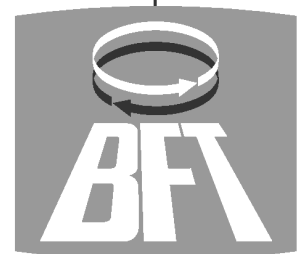# QUICK INSTALLATION GUIDE

ECOSOL BOX TO LIBRA UL-R, ARES AND DEIMOS BT

ECOSOL BOX
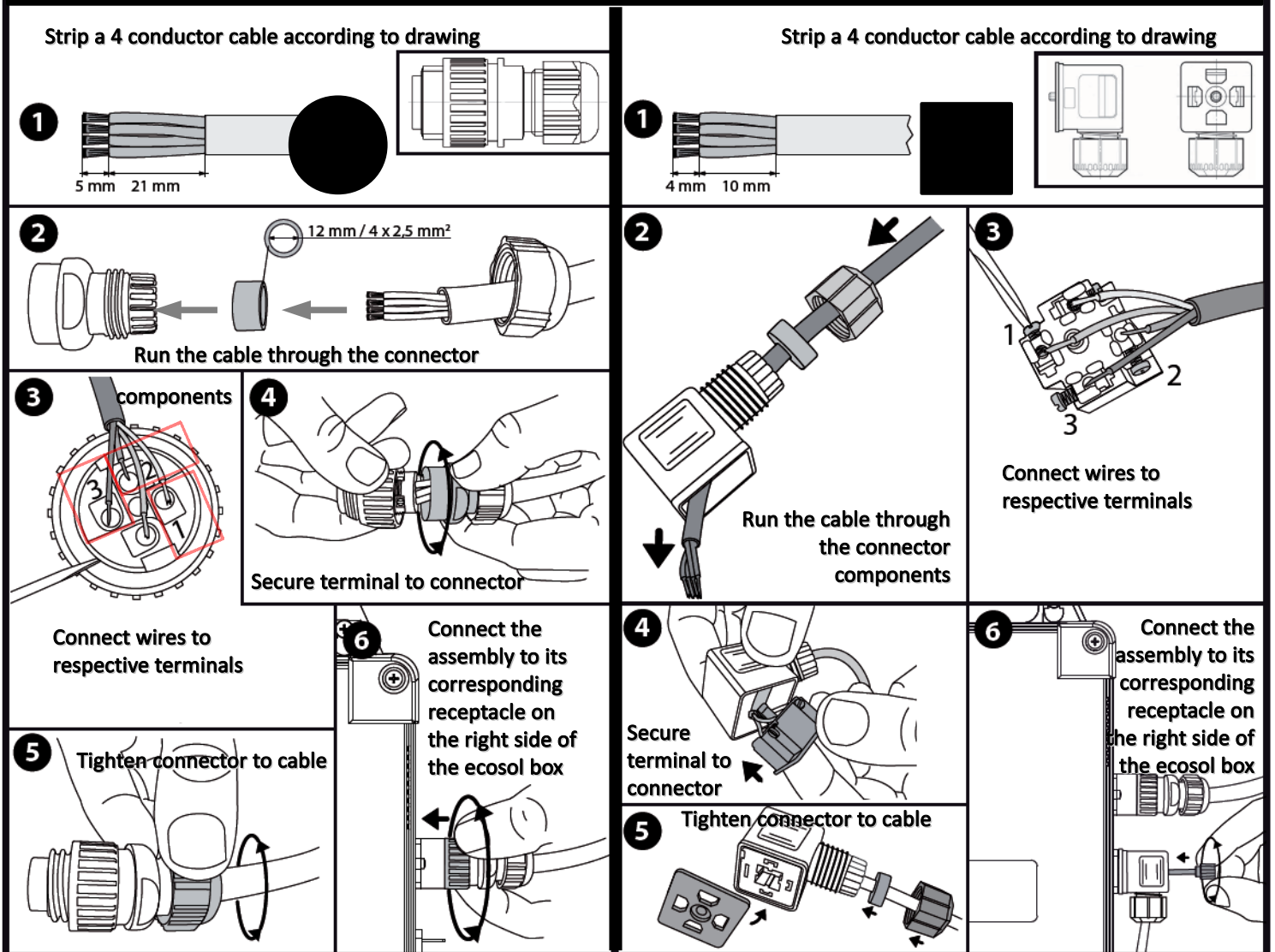
Product to be installed by a qualified installer
Technical Support: 877-995-8155
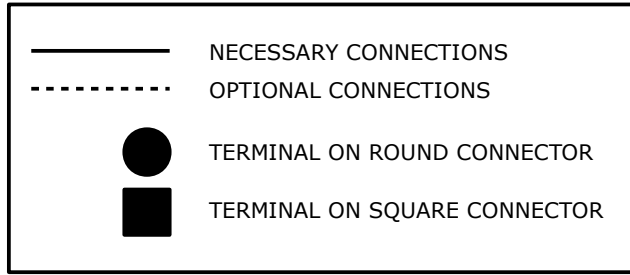
5 SIMPLE RULES TO FOLLOW WHEN INSTALLING AN ECOSOL

1. Keep the system as simple as possible. The simpler the system, the least energy it consumes, hence, the better performance.
2. <u>DO NOT PROGRAM REMOTES OR OPENING COMMAND INPUTS TO CONTROLLER BOARD.</u> All remotes and open command inputs must be wired to the ECOSOL board.
3. Free exit devices and magnetic loop detectors draw current at all times so it is suggested not to implement them. If a free exit device is a must, low power consumption detectors such as the Diablo Controls model DSP-6LP and DSP-7LP are strongly recommended over photocell sensors.
4. As a general rule, the solar panel should always face south and at an angle equal to the locations latitude +/- 10°, in a shade free area.
5. When in doubt, call tech support. **877-995-8155** or 561-995-8155
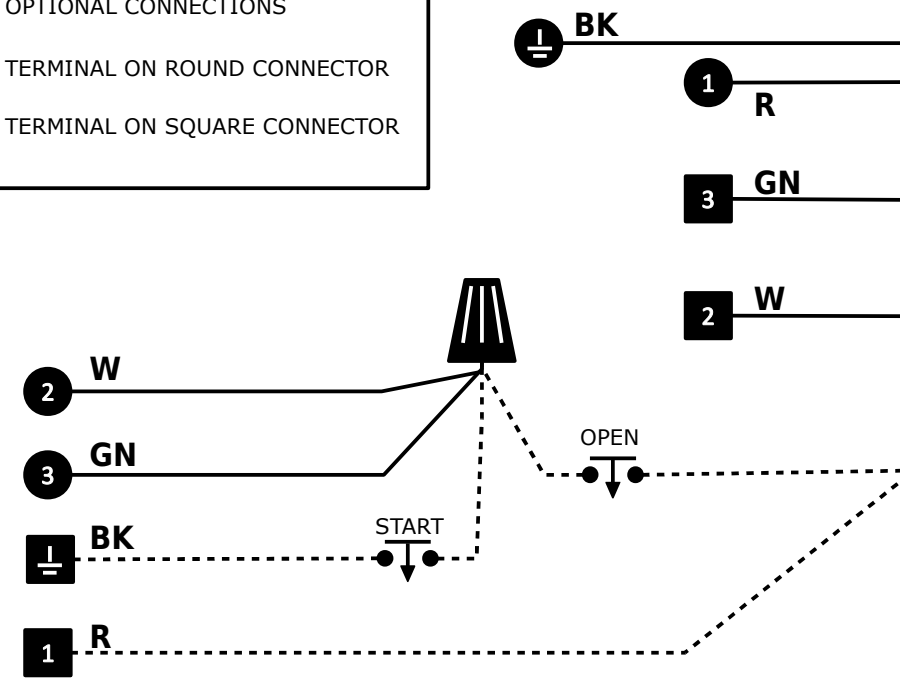
ECOSOL HARNESS ASSEMBLY

Strip a 4 conductor cable according to drawing

1

5 mm   21 mm

2   12 mm / 4 x 2,5 mm²

Run the cable through the connector

3 components   **4**

Secure terminal to connector

Connect wires to respective terminals

5 Tighten connector to cable

6 Connect the assembly to its corresponding receptacle on the right side of the ecosol box

Strip a 4 conductor cable according to drawing

1

4 mm   10 mm

2 Run the cable through the connector components

3 Connect wires to respective terminals

4 Secure terminal to connector

5 Tighten connector to cable

6 Connect the assembly to its corresponding receptacle on the right side of the ecosol box

ECOSOL CONNECTIONS TO THE DEIMOS BT & ARES

TRANSFORMER WIRES MUST BE DISCONNECTED!!

DEIMOS BT / ARES TERMINAL STRIP

NECESSARY CONNECTIONS

OPTIONAL CONNECTIONS

● TERMINAL ON ROUND CONNECTOR

■ TERMINAL ON SQUARE CONNECTOR

BK ⏚

1 R

3 GN

2 W

W 2

GN 3

BK 1 ⏚

1 R

OPEN

START

3	-24 V IN	
4	+24 V IN	
17	+ V-SAFE	
21	COMMON	
22	START	
23	STOP	
24	PHOTO (SAFETY)	
25	BAR	
26	OPEN	

ECOSOL CONNECTIONS TO LIBRA UL-R

TRANSFORMER WIRES MUST BE DISCONNECTED!!

R 1

JP5

FUSE 1.25A/T F2

⏚

BK

JP2

+
-

OK

LIBRA JP9   JP8   JP7

3 4 5 6 7 8 9 10 11 12 13 14   15 16 17 18 19 20   21 22

GN 3

W 2

W 2

GN 3

BK ⏚

1 R

START

OPEN

ECOSOL CONNECTIONS TO LIBRA UL-R

2 x 0,75 mm²

9 mm / 2 x 0,75 mm²

+ 2
- 3

BOX
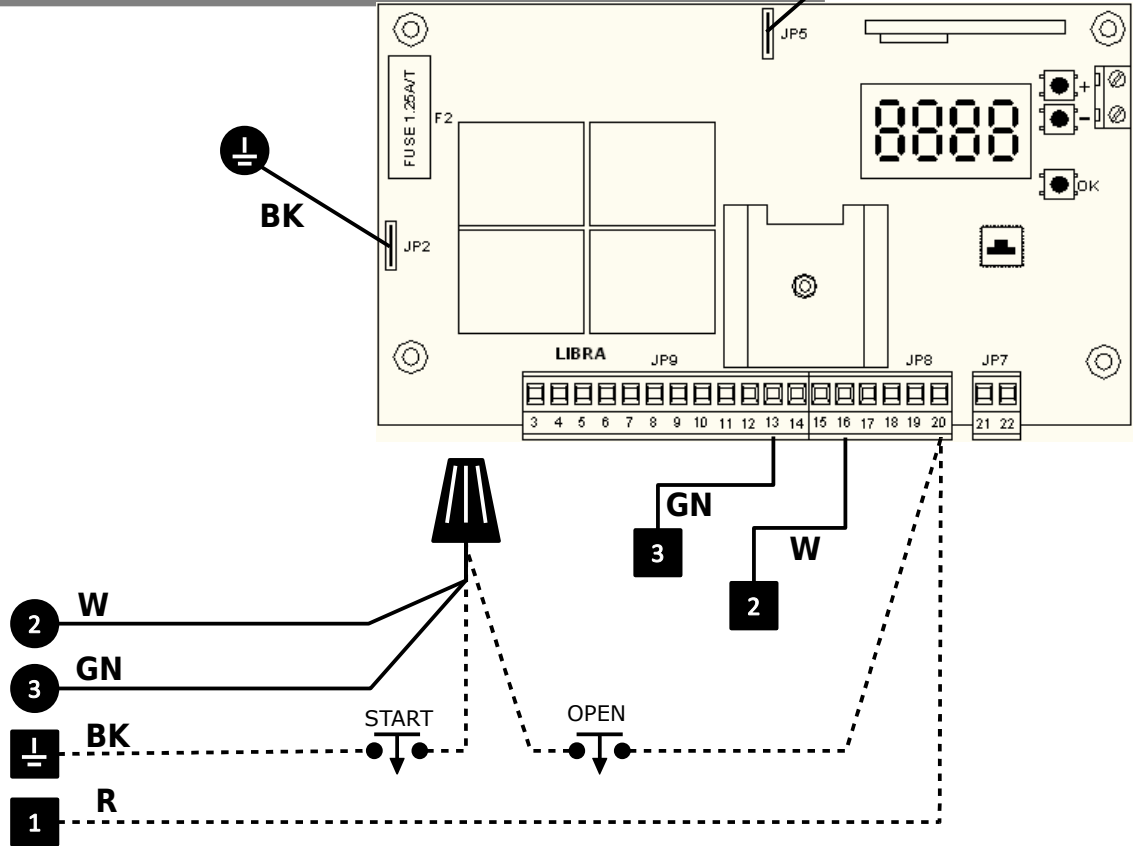
Controller
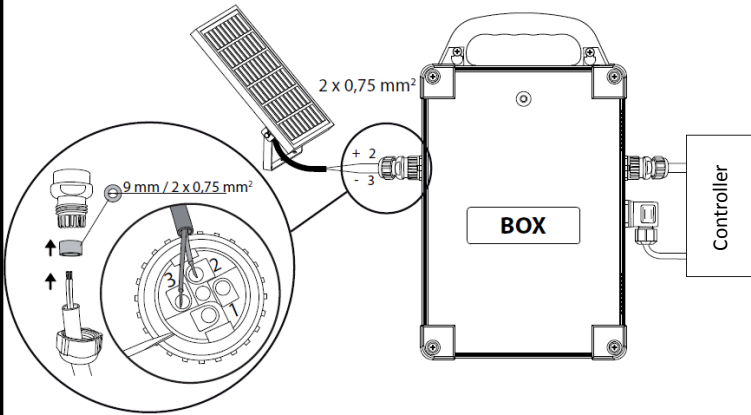
ALWAYS-ON ACCESSORY POWER

2 — W — BK

3 — GN

+ — 24VDC — −
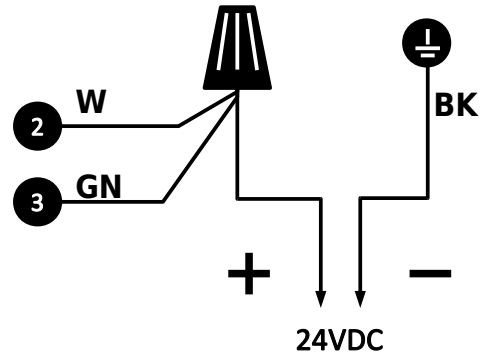
DIPSWITCH PROGRAMMING

DIPSWITCH 1
Turn on when ECOSOL Double (external battery pack) is connected to Ecosol board.

DIPSWITCH 2
Turn on for transmitter activated transmitter learning.

DIPSWITCH 3 & 4
Iinitial command delay setting
All off: 1.3 seconds
3 On: 1.5 seconds
4 On: 1.7 seconds
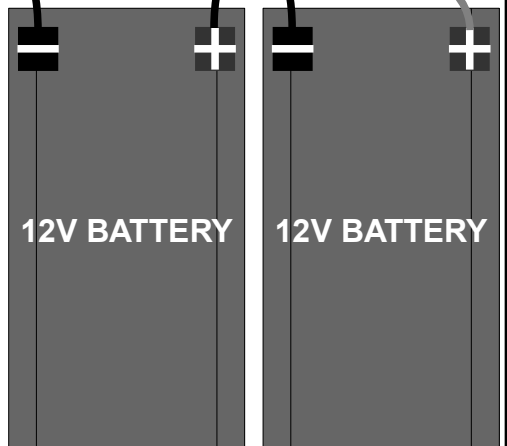3 & 4 On: 2.1 seconds

RADIO TRANSMITTER PROGRAMMING

1. Press RADIO LEARN BUTTON once. LED3 should blink once every second.
2. Press and hold the 2 top buttons on your transmitter until LED3 turns on solid.
3. Press the desired button on the transmitter . LED3 should blink rapidly for a second a goes back to a blink per second.
4. If additional transmitter needs to be learned, repeat steps 2 and 3 while LED3 is blinking.

LED3

LED4

PROGRAMMING DIPSWITCHES

RADIO LEARN BUTTON

10A FUSE

BK

R
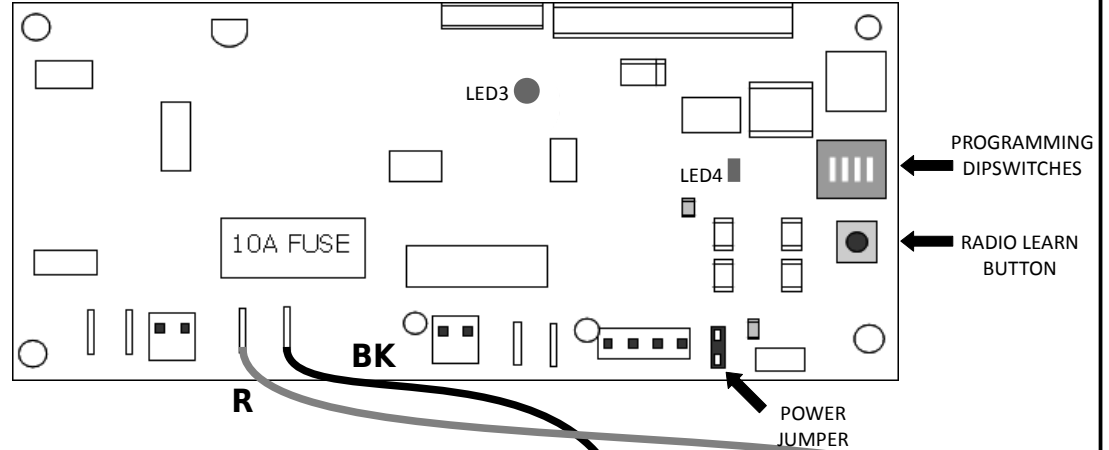
POWER JUMPER

OPERATOR PROGRAMMING

To program the gate operator, the power jumper must be installed over both pins. The operator will be powered while this jumper is in place.
Once the programming is completed, it is imperative to remove this jumper. Failure to do so will result in rapid battery discharge

12V BATTERY   12V BATTERY

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