



Technical Instructions

Converting SlideSmart HD from AC Power to Solar Power

Read all warnings, notes, and instructions. Refer to parts list and images below to check and confirm kit contents. Instructions start on next page. Wiring schematic is on page 6.

PARTS AND MATERIALS NEEDED			
Item	Part Number	QTY	Description
1	MX001760	1	Circuit Breaker, 15A
2	MX001892	1	Wire Harness, Solar
3	MX001891	1	Wire Harness, 2 to 1, Red
4	MX001890	1	Wire, Red, 12 AWG, Female Spade on Stripped End, 11"
5	generic	2	Wire Nut

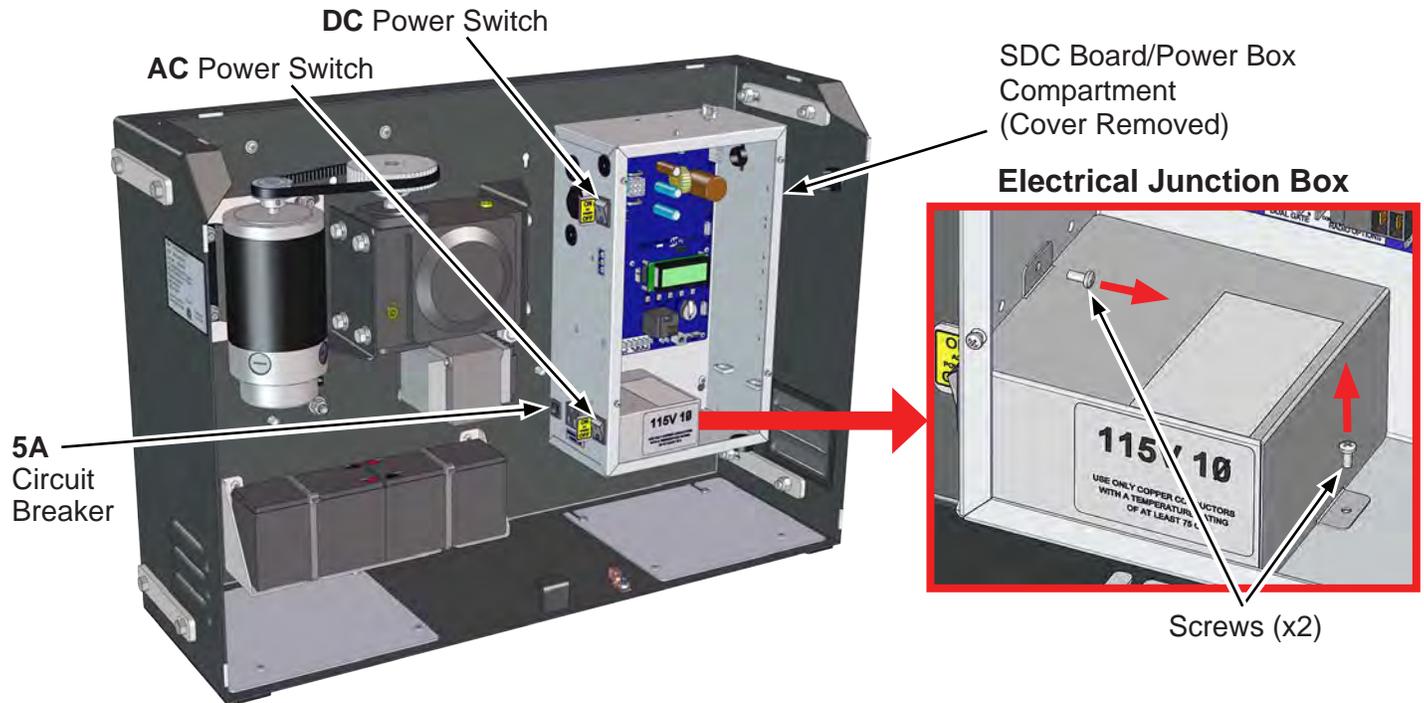


FIG-1: SlideSmart HD Operator with AC Power (Chassis Cover Removed)



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NOTICE

The conversion of SlideDriver HD models to solar power is not covered under the Nice|HySecurity UL 325 Listing. Although the design conforms to the standards of UL 325, it has not been examined and certified by an independent lab.

Turn Off AC Power & Prepare Unit

1. Remove AC power source to the operator.



DANGER!

- To reduce risk of severe injury and death follow all safety procedures!
- REMOVE AC electrical power downstream of the unit before attempting to continue these instructions!

2. Remove the cover of the SlideSmart HD operator and set aside.
3. Turn OFF AC *and* DC power switches (see FIG-1) on left side of the Power/SDC compartment.
4. Remove the cover to the power/SDC compartment (FIG-1).
5. Refer to the detail of the electrical power conduit box in FIG-1, then remove the two Phillips head screws along with cover and set aside.

Disconnect AC Power Input Cable and Wires

6. Refer to FIG-2, below, then unplug all wires from the AC power switch.
7. Disconnect AC input short ground lead from ground lug, leaving other ground lead connected (see FIG-2).
8. Extract disconnected AC power cable from the unit (remove wire nuts if necessary).
9. Remove 5A circuit breaker (and connected wires), then replace with 15A breaker, P/N MX001760 (FIG-2).
10. The now non-functional Auxilliary AC outlet and AC Power Board (and x4 screws/standoffs) may be removed if preferred or left in place (i.e. for later reconversion back to AC power).

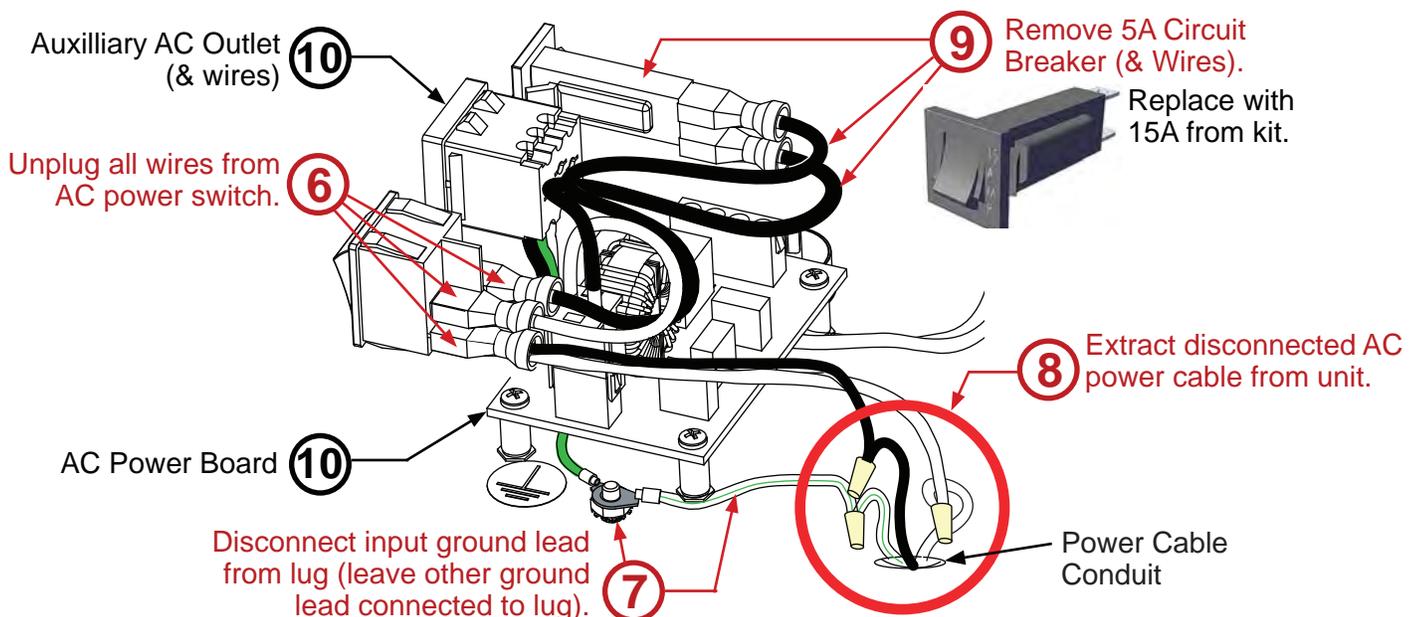


FIG-2: Disconnecting AC Power Input Cable and Wires

(Continued)



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Replace Transformer Harness with Solar Option Harness

11. Unplug Transformer Harness (Yellow-Blue-Yellow) from 3-pin connector on the upper right of the SDC board (FIG-3). Place out of the way or remove.

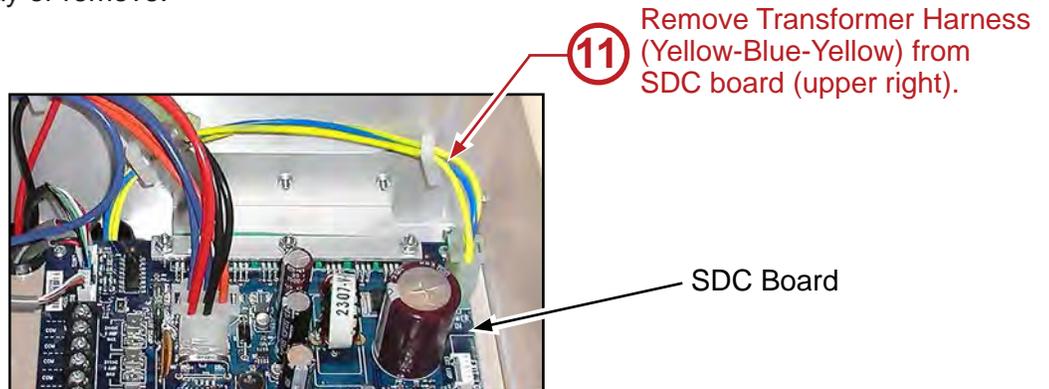


FIG-3: Removing AC Transformer Harness from SDC Board

12. Insert the 3-pin connector of the Solar Harness (P/N MX001892) into the connector on the upper right corner of the SDC board (FIG-4),
13. Connect the two spade red wires of Solar Harness to two top tabs of former AC power switch and route black wire out of junction box through input conduit, as shown in FIG-4, below.

NOTICE

The following images show the unit with Auxilliary AC Outlet and AC Power Board removed (see Step 10), but these components may be left in place (i.e. for later reconversion back to AC power).

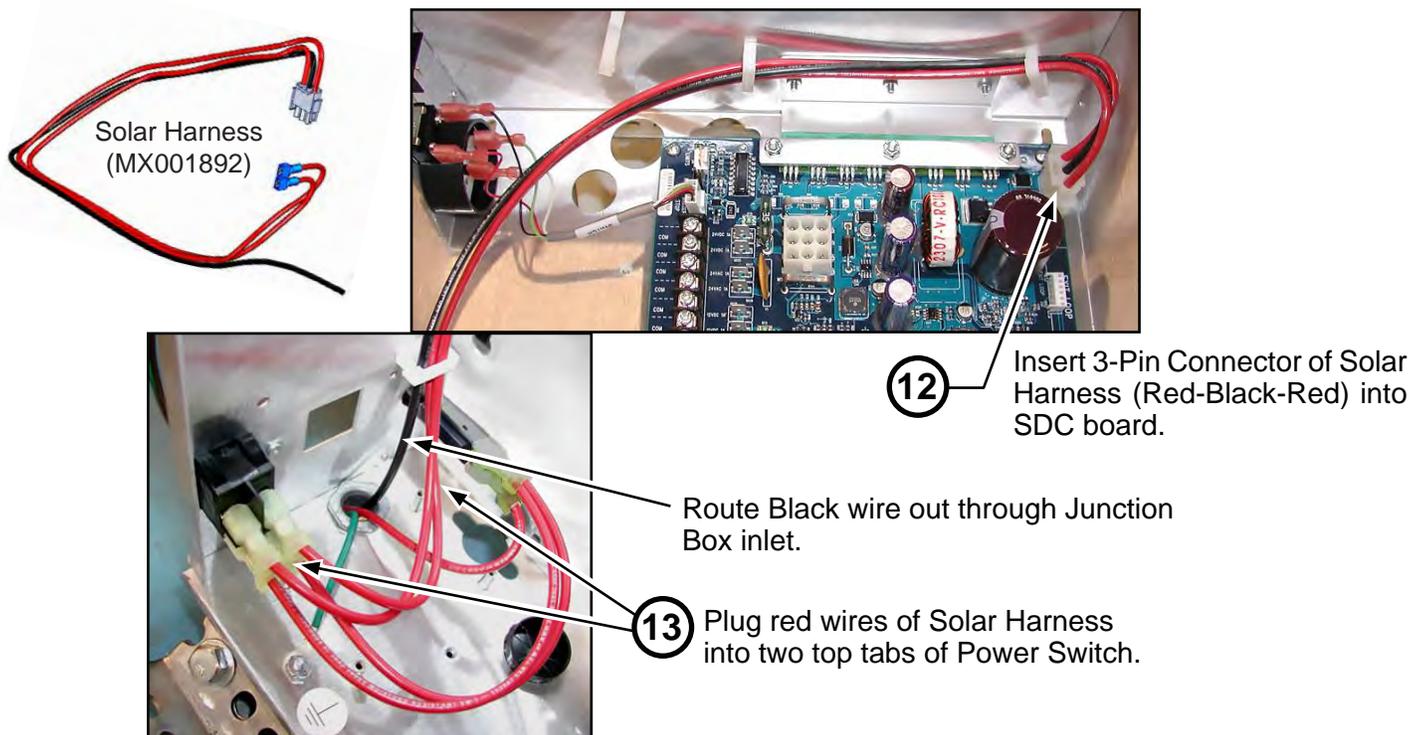


FIG-4: Installing Solar Option Harness onto SDC Board

(Continued)



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Install Other Harnesses & Wire Solar Panel

14. Connect 2-to-1 harness MX001891 between bottom two tabs of power switch and top tab of 15A breaker (see FIG-5).
15. Connect wire MX001890 to bottom tab of 15A breaker and route red wire out of junction box through input conduit (see FIG-5).

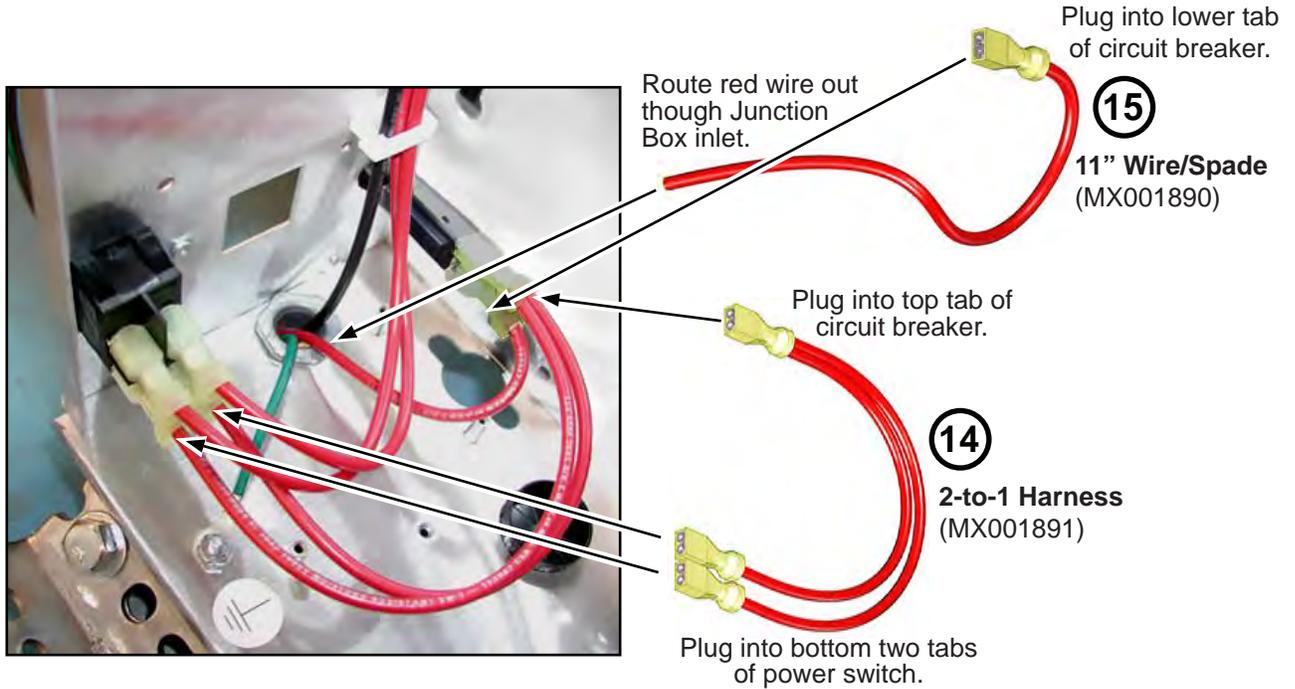


FIG-5: Installing Other Harnesses to Rear Panel Components

16. Connect solar panel positive lead to red wire of MX001890 (from junction box) using wire nut (see FIG-6).
17. Connect solar panel negative lead to black wire of harness MX001892 (from junction box) using wire nut (see FIG-6).

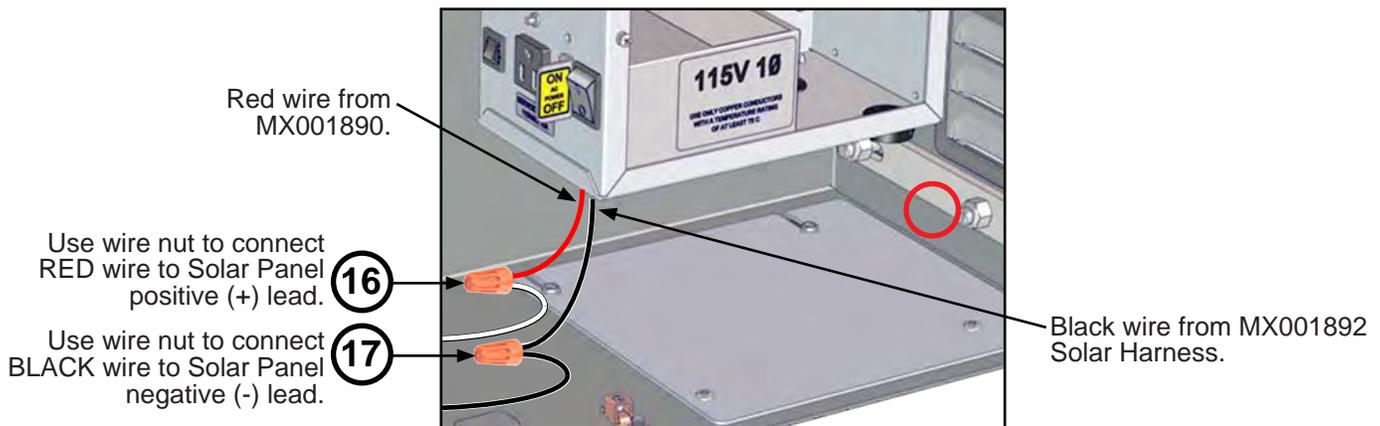


FIG-6: Connecting Solar Panel Cable Leads

18. Reassemble power Junction Box cover and SDC compartment cover, then apply power and turn DC Power switch and Solar Power switch to ON.

(Continued)



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Change Controller Power Settings Using S.T.A.R.T. Software



CAUTION

Setting the charger type affects how the operator performs. Make sure you set the proper charger type for the gate operator.

NOTICE

The instructions below refer only to changes needed in the START software, but not how to use the software itself. START is an acronym for Smart Touch Analyze and Retrieve Tool, and can be downloaded, along with documentation, from <https://support.hysecurity.com/hc/en-us/sections/360007580273-HySecurity-S-T-A-R-T-software-for-Smart-Touch-and-SmartDC>.

19. Navigate in the START software to the Part 2 tab of the Installer Menu (see FIG-7, below).
20. Change the **Charger Type** to **Solar**.

21 Charger Type > Solar

Operator Menu Settings (New Generation)

Time and Date | User Menu | **Installer Menu**

Installer Settings (Part 2)

Fd - Factory Defaults | Custom Settings | Ot - Oper. Type | Not Defined (OT0) | ELd - Exit Det. | Freq. | 1 | Sens. | 6 | Pres. | Lng |

ILd - Inside Obs. Det. | 1 | A | Lng |

oLd - Outside Obs. Det. | 1 | A | Lng |

SLd - Shadow Det. | 1 | A | Lng |

PC - Photo Eye Contact Type | N.O. | Ch - Charger Type | **Solar** |

gC - Edge Contact Type | N.O. |

tC - Open Interlock/Time Clock | 01 |

tL - Maximum Gate Open Time | 45 |

Lt - Loitering Time | 75 | bu - Buzzer Type | 1 |

Sg - Sequenced Gate | Off |

Part 1 | **Part 2** | Part 3

Help (Click an Option Item In Installer Settings For Help)

CAUTION

AC/DC Power [Ad] Help:

!CAUTION!: The AC / DC menu setting also determines the gate operating logic, which differs between the various types of operators. Be certain to carefully match the operator type chosen with the model of operator according to the list below.

Note: Operators with DC motors run on 24 VDC and do not have a relay type motor contactor

Load Menu Settings | Save Menu Settings | Administrator: | Cancel | Done | Exit

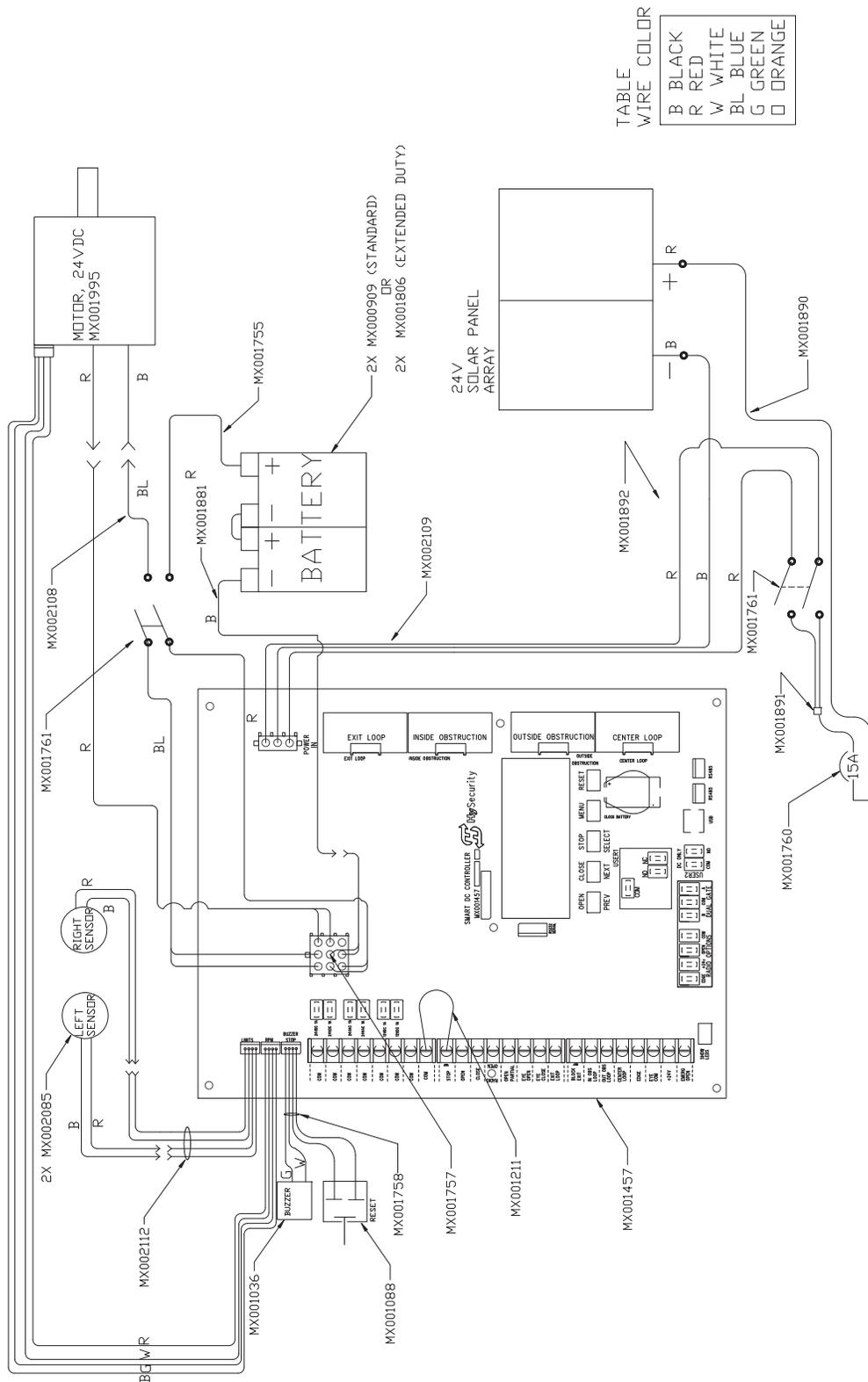
FIG-7: START Software - Installation Menu Power Settings

21. Save the menu settings, exit, and disconnect from the operator.
22. Replace the SlideSmartHD chassis cover and return operator to service.

----- **END** -----



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NOTE: DRAWING IS NOT TO SCALE.

SlideSmart Solar Schematic, Rev-B

Contact Information: Visit <https://support.hysecurity.com/hc/en-us> for installation manuals, replacement part instructions, part diagrams and more. Qualified HySecurity distributors are experienced and trained to assist in resolving installation problems. For the name of a qualified distributor near you, call HySecurity at 800-321-9947. *Before contacting your distributor or HySecurity Technical Support, obtain the serial number of your operator.