

Detailed Moab Commissioning and Integration Guide:

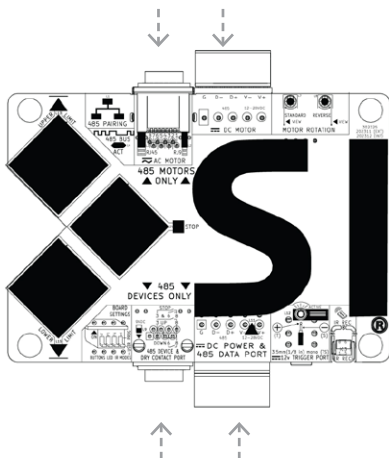
Scan the QR code or use the link below to access:

<https://files.screeninnovations.com/Downloads/Installation+Instructions/Connectivity/moab-installation-instructions.pdf>



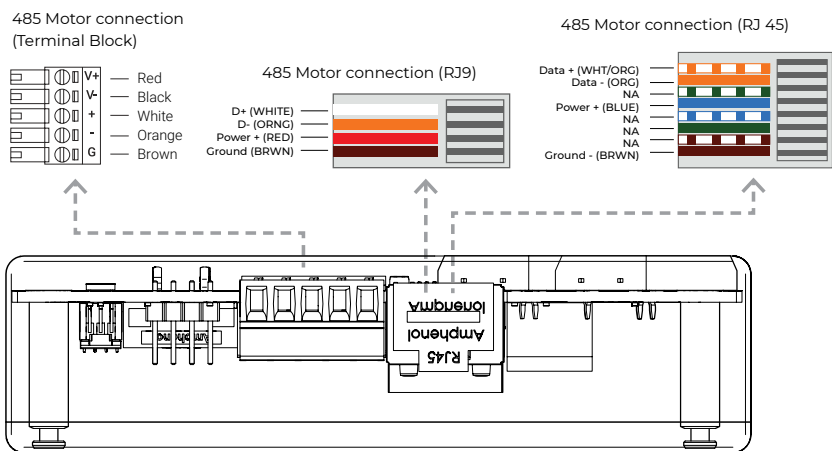
Connection Details

Motor Connection (Only 1 of these can be used at a time)



485 Device Connections (Both of these can be used, simultaneously)

Motor Connection Detail



- Note 1: MOAB has protection for AC connected motors in the event a remote DC Power Supply is connected via bottom DC Input
- Note 2: The top RJ45 port protects and switches internally whenever an RJ9 or RJ45 cable is connected from an AC motor.
- Note 3: Do not connect a 485 device to motor port (such as Janus, or other power supply)

AC Motor Connection Detail

See page 4 in the Moab Installation Instructions document.

DC Motor Connection Detail

See page 5 in the Moab Installation Instructions document.

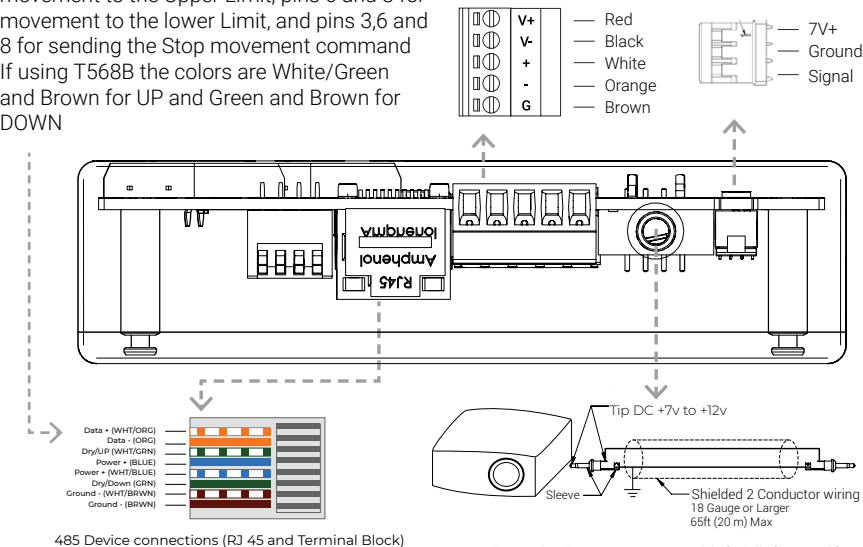
Contact SI for any questions

[screeninnovations.com](https://www.screeninnovations.com)
screensupport@screeninnovations.com

Technical Support: 512.832.6939
Hours of Support: 7:30am - 5pm CST

Bottom Connection Detail

The Dry contact using pins 3 and 8 for movement to the Upper Limit, pins 6 and 8 for movement to the lower Limit, and pins 3,6 and 8 for sending the Stop movement command
If using T568B the colors are White/Green and Brown for UP and Green and Brown for DOWN

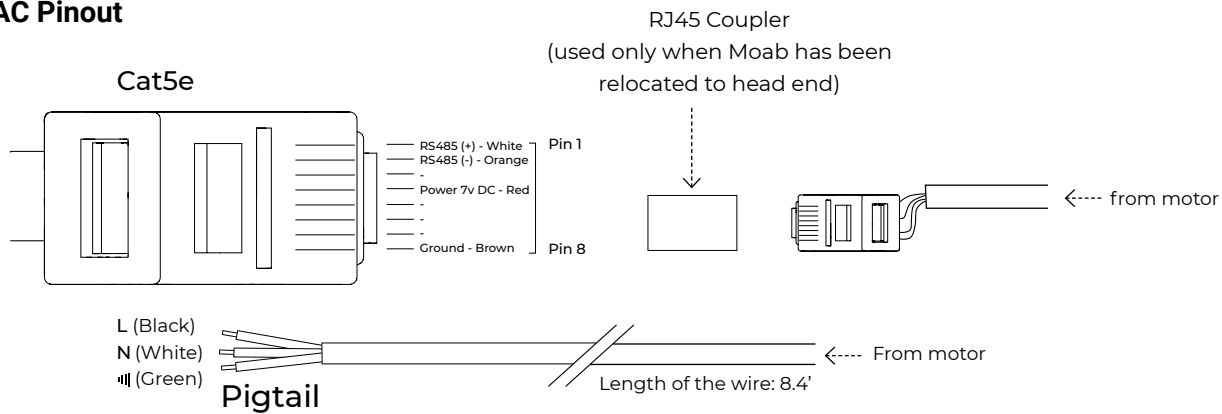


Note: Please check your 3.5mm TS cable is fully inserted into the connector or remove Moab from case for Proper 12v trigger operation

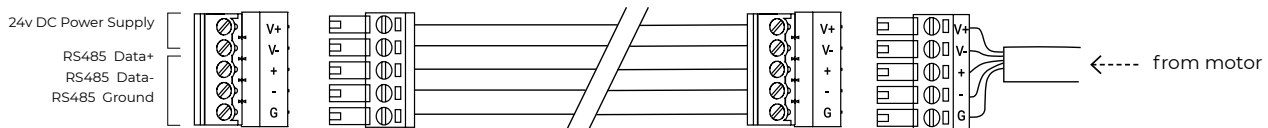
PINOUTS AND BASIC PROGRAMMING

Pinout Details

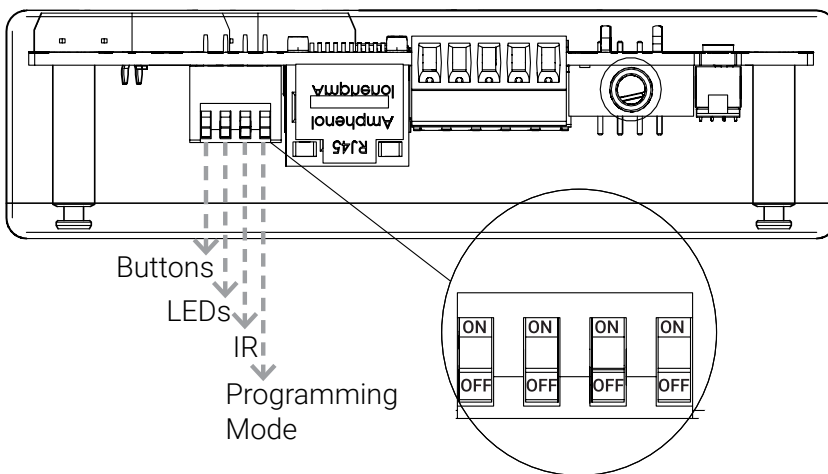
AC Pinout



DC Pinout (Low Voltage Power and 485 Control)



Basic Programming



IR:

- **ON:** Activates the built-in IR Rec
- **OFF:** Inactivates the built-in IR Rec

Programming Mode

- **ON:** Places board in Programming Mode
- **OFF:** Places board in User Mode

Buttons:

- **ON:** Three (3) buttons will work in both User or Programming mode
- **OFF:** Buttons are not allowed to work in User or Programming mode

LEDs:

- **ON:** Activates all LEDs
- **OFF:** Inactivates all LEDs

*The 485 Pairing LED and button LEDs may be active regardless of the LED setting switch

MOAB BUTTON DETAILS

User Mode (Default)

BUTTONS	ON PRESS	ON RELEASE < 3 Seconds	ON HOLDING > 3 Seconds
Red	Nothing sent	Moves motor to upper limit	Auto programs 485 device(s) to motor
Green	Nothing sent	Stops any motor movement	Starts 485 device channel to 485 motor assignment
Blue	Nothing sent	Moves motor to lower limit	Auto programs 485 device(s) to motor
Red + Blue	Nothing sent	Nothing sent	Erases 485-device channel to 485 motor assignment
Red + Green + Blue	Nothing sent	Nothing sent	Erases paired motor ID from Moab, Erases Moab group address

Programming Mode

BUTTONS	ON PRESS	ON RELEASE <1 Second	ON HOLDING >1 seconds
Red	Sends fine UP cmd	Nothing sent	Continuously sends limit fast UP to motor
Green	Nothing sent	Send STOP cmd	Discover and pair motor (Broadcast)
Blue	Sends fine DOWN cmd	Nothing sent	Continuously sends limit fast DOWN to motor
Red + Green	Nothing sent	Nothing sent	Sends set upper limit at current location to motor
Blue + Green	Nothing sent	Nothing sent	Sends set lower limit at current location to motor
Red + Blue	Nothing sent	Nothing sent	Sends rotation toggle to Motor (3 times)
Red+ Green+ Blue	Nothing sent	Nothing sent	Sends factory reset cmd to a paired Motor, erases paired motor ID from Moab, erases Moab group address

SETTING LIMITS

Motor limits are set at the SI factory.

Care must be taken when setting limits, as damage to the screen material may occur if the motor is moved too far past the upper or lower limit.

Contact SI Support for help with setting limits on your screen

Upper Limits

- To adjust the upper limit, set the PROG MODE switch to ON.
- Next using the UP (Red) and DOWN (Blue) buttons, move the screen to the desired upper limit.
- Hold both the UP (Red) and STOP (Green) buttons for one second until the UP (Red) and STOP (Green) LEDs flash
- The motor now has a new upper limit set. You may now switch the PROG mode back to OFF and use the buttons to test the newly set limit.

Lower Limits

- To adjust the lower limit, then set the PROG MODE Switch to ON.
- Next using the UP (Red) and DOWN (Blue) buttons move the screen to the desired lower limit.
- Hold both the DOWN (Blue) and STOP (Green) buttons for 1 second until the DOWN (Blue) and STOP (Green) LEDs flash.
- The motor now has a new lower limit set, and you can now switch the PROG mode back to OFF and use the buttons to test your newly set limit.

PROGRAMMING MODE - MOTOR PAIRING DETAIL

- Motors are paired at the factory.
- If replacing a motor, or if you see the 485 PAIRED LED on, set the PROG MODE Switch to ON.
- Verify the motor you would like to pair is connected to one of the motor ports, and disconnect any additional devices connected to a 485 port.
- Next Hold the STOP (green) button for one second until the 485 PAIRING LED turns off.
- If the 485 PAIRING LED does not turn off, check your motor/power connections; if you still cannot get the motor to pair, contact SI support.
- Moab uses broadcast addresses during the 485 pairing processes, please d/c any other 485 devices during this step.