

# PROGRAMMING INSTRUCTIONS

FOR MOTORIZED SHADES WITH 12-VOLT SWITCHED MOTOR

MECHANICAL SET



## INSTALLATION INSTRUCTIONS

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- Position shade in window; ensure shade is mounted correctly for electrical hook up.
- Secure the shade in position with the appropriate hardware for the mounting surface. All brackets on the shade must be securely mounted.
- Do not operate the shade while driving if all programming steps have not been completed and checked.

### ELECTRICAL CONNECTION

A dual-position rocker switch is required for shade operation.

- Connect the motor to the switch. The blue-stripped wire is the positive (+) connection. The white wire is the negative (-) connection.
- The brown wire on the motor goes to the positive (+) ignition connection. Connecting this wire allows the shade to be programmed to have limited downward movement if the ignition is on (short range programming).

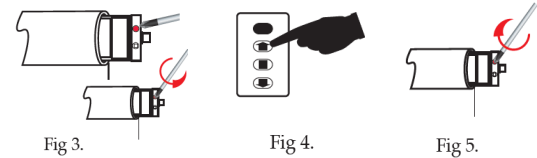
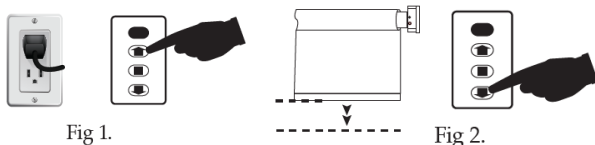
## STEP 1: SHORT-RANGE PROGRAMMING

### SETTING THE UP POSITION

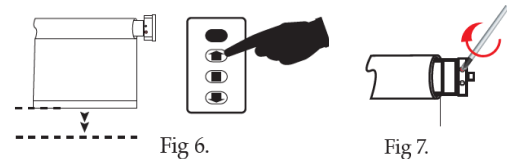
**PLEASE NOTE:** Keep in mind you are setting the upper and lower limits you would like the shade to operate at while the ignition is on. For safety reasons it is recommended you do not set the lower limit below the driver's line of sight.

Ensure electrical hookups are completed per instructions above, and power is connected to the shade. You should also have power to the positive (+) ignition wire.

- Press the UP button on the keypad. (Fig 1.)
- If the blind moves above your desired setting, press the down button. (Fig 2.)
  - Rotate the top adjusting knob counterclockwise until the blind reaches your desired setting. (Fig 3.)
  - Press the UP button on the keypad. (Fig 4.)
  - Rotate the top adjusting knob clockwise until the blind reaches your desired setting. (Fig 5.)
  - The UP limit position is now set.



- If the blind moves BELOW your desired setting, press the up button. (Fig 6.)
  - Rotate the top adjusting knob clockwise until the blind reaches your desired setting. (Fig 7.)
  - The UP limit position is now set.



## STEP 2: SHORT-RANGE PROGRAMMING

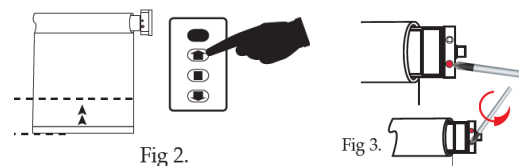
### SETTING THE DOWN POSITION

- Press the DOWN button on the keypad. (Fig 1.)



Fig 1.

- If the blind moves BELOW your desired setting, press the up button. (Fig 2.)
  - Rotate the bottom adjusting knob counterclockwise until the blind reaches your desired setting. (Fig 3.)
  - Press the DOWN button on the keypad. (Fig 4.)
  - Rotate the bottom adjusting knob clockwise until the blind reaches your desired setting. (Fig 5.)
  - The DOWN limit position is now set.



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Fig 4.

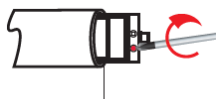


Fig 5.

**F** If the blind moves ABOVE your desired setting, press the down button. (Fig 6.)

- Rotate the adjusting knob clockwise until the blind reaches your desired setting. (Fig 6.)
- The DOWN limit position is now set.

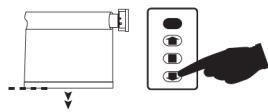


Fig 6.

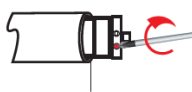


Fig 7.

## STEP 3: LONG-RANGE PROGRAMMING

**NOTE: Short-range programming must be completed first.**

- G**
- Power to ignition wire on motor should be turned off.
  - Long-range programming is done in the same manner used for short-range programming, with the exception that the ignition wire is not energized for long-range programming.
  - Set lower limit first, upper limit last.

## STEP 4: PROGRAMMING CHECK

- H**
- With ignition power on, check to ensure the shade stops are at the short-range settings. With ignition power off, ensure the shade stops at long-range settings. Remember, the shade shouldn't be below the driver's level of sight in short-range mode.
  - If the shade does not operate as programmed, return to programming instructions, beginning with short-range programming.
  - If the shade does not stop at the programmed lower limit while the ignition power is on, check to ensure that the brown wire on the shade motor is properly connected to an ignition positive connection
  - Do not operate the shade while driving if all programming steps have not been completed and checked.

PROBLEM	POTENTIAL CAUSE(S)	SOLUTIONS
After connecting to power, the motor doesn't work, or works slowly	<ol style="list-style-type: none"> <li>1. Wrong voltage</li> <li>2. Overloading</li> <li>3. Wrong installation, causing accessories to get stuck</li> </ol>	<ol style="list-style-type: none"> <li>1. Change to rated voltage</li> <li>2. Adjust the loading</li> <li>3. Check accessories and ensure installation is correct</li> </ol>
After connecting to power, only one direction works	The limit position of fail working is not opened (meaning?)	Rotate crown 1 or 2 circles by hand on the opposite of motor current running direction (meaning?)
The motor suddenly stops running.	<ol style="list-style-type: none"> <li>1. Power is off</li> <li>2. Motor arrived at the limited positions</li> </ol>	<ol style="list-style-type: none"> <li>1. Connect to power</li> <li>2. Check whether limit position needs to be changed by turning the adjusting knob</li> </ol>
Blinds go up when DOWN button is pushed, or vice versa	The install directions or/and wiring is/are not done according to the manual	Exchange the power line of "P" and "N"

**For additional technical support, call 574-AIRXCEL (574-247-9235)**