

Limit Setting Instructions for *ITec*TM Techno Transmitters

Key Features

- *Transmitter sets end limits*
- *Up to 2 intermediate stops*
- *Up to 6 group configurations*
- *Momentary motor action*
- *Reverse motor direction*
- *Sticky action (permits instant switch from open to close direction)*
- *Deadbeat mode*
- *Bottom lock mode*
- *Cassette awning mode (automatic tension release and adjustment)*
- *Transmitter code setting*

In order to start programming, the motor must be connected to the AC power supply. The motors are designed to accept 110-120 V AC power by means of a three-conductor power lead with color-coding, black for 120 V power supply, white for neutral, and green for ground. Some leads may also have a fourth wire (red). If this is present, it should be trimmed and remain unused.

Connections to AC power supply should be done by a licensed electrician in accordance with the prevailing electrical building codes.

Transmitters

Elero offers Techno programming transmitters (handsenders) in Techno-12 and Techno-24 channel versions. Programming transmitters are necessary to set the individual motor operating channels, the operating limits, and the intermediate stops.

In addition Elero offers 1- through 6-channel non-programming transmitters for operating purposes only.

Each transmitter has its own unique signal. To train a new motor to any transmitter, the receiver in each motor must first accept the transmission signal from the transmitter. This takes place immediately when power to the motor has been switched on and any button on the transmitter is pressed.

Each motor is assigned a numbered channel to which it responds when a signal such as "open," "close" or "stop" is transmitted. The receiver in each motor has been pre-programmed for Channel number 1. If more than one motor is to be operated by the same transmitter, a specific channel must be assigned for each motor.

Important Note:

It is best to train each motor to the transmitter and to select the channels during the fabrication process. This has the unique advantage that limit setting can be done on multiple motors after installation on-site, without disconnecting the power and without fear of interference.

To start programming the motors, a programming transmitter must be used, power must be applied, and the motors must be assigned channel numbers in sequence, one motor at a time. When multiple motors are to be programmed, it is best to start with the highest channel number and end at Channel number 1.



The programming sequences, which are explained in detail below, are the following:

- A. Train the built-in motor receiver to the programming transmitter signal.
- B. Assign a channel number to the motor.
- C. Check whether the motor rotation direction (open or close) is correct. Reverse if need be.
- D. Set "open" limit.
- E. Set "close" limit.
- F. Add additional programming or operating transmitters if so desired.

Programming Steps

- A. Train the motor receiver to the transmitter.

Step 1: Select either a 12- or 24-channel programming transmitter (handsender). Press the shift key to access channels 13-24 on Techno-24. The transmitter will default back to channels 1-12 after five seconds.

Step 2: Apply power to the first motor.

Step 3: Press any button on the programming transmitter. Listen for an audible "cluck" from the motor and the slight movement of the system (shade, awning, shutter). Both occur simultaneously. This confirms that the motor has received the RF signal from the transmitter and the motor has been programmed to respond to this unique transmitter signal.

- B. Assign a channel number to the motor.

Important Note:

Be sure to clearly mark each system with the number of the selected channel. If only one motor is used, a channel number does not need to be selected because the motor receiver is pre-programmed to operate as Channel number 1.

Step 1: Switch on the power to the first motor to be assigned a channel number.

Step 2: Press the "stop" button and keep it depressed.

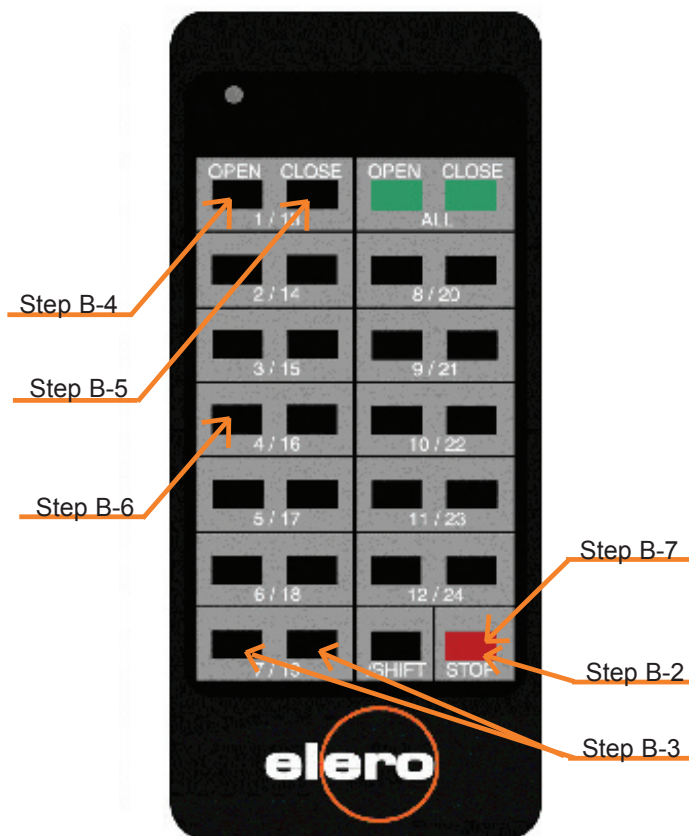
Step 3: Still keeping the "stop" button depressed, press the "open" and "close" buttons for Channel 7. Then release all three buttons. This puts the transmitter in programming mode.

Step 4: If this is a new motor, press the "open" button for Channel 1. If this is not a new motor, press the "open" button for the channel assigned to this motor. Observe the cluck.

Step 5: Press the "close" button for Channel 1 whether the motor is new or not. This alerts the motor that the channel is being changed.

Step 6: Press the "open" button of the channel number to be assigned to this motor (#4 in example). Observe the cluck. If multiple motors are to be programmed, start with the highest number.

Step 7: Press "stop" to confirm the channel selection.

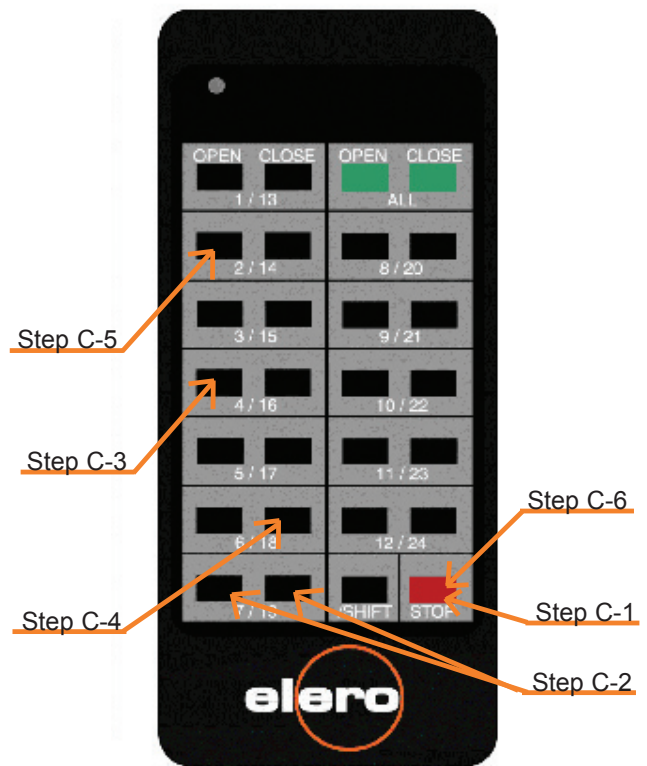


This motor has now been programmed for the selected programming transmitter and for the chosen channel. Program the next motor for operation with this transmitter in similar manner, selecting the next channel and returning to instruction A-1 above.

C. Check the motor direction.

To ensure that the operating direction corresponds with the "open" and "close" buttons of the transmitter, test-run the system. Press either the "open" or "close" button of the assigned channel. If the direction is incorrect, reverse it as follows.

- Step 1:** Press the "stop" button and keep it depressed.
- Step 2:** Still keeping the "stop" button depressed, press the "open" and "close" buttons for Channel 7. Then release all three buttons. This puts the transmitter in programming mode.
- Step 3:** Press the "open" button for the channel assigned to this motor (#4 in example). Observe the cluck.
- Step 4:** Press the "close" button for Channel 6. This alerts the motor that the direction is being changed.
- Step 5:** Press the "open" button for Channel 2 to change the motor direction. Observe the cluck.
- Step 6:** Press "stop" to confirm the entry.



Limit Setting

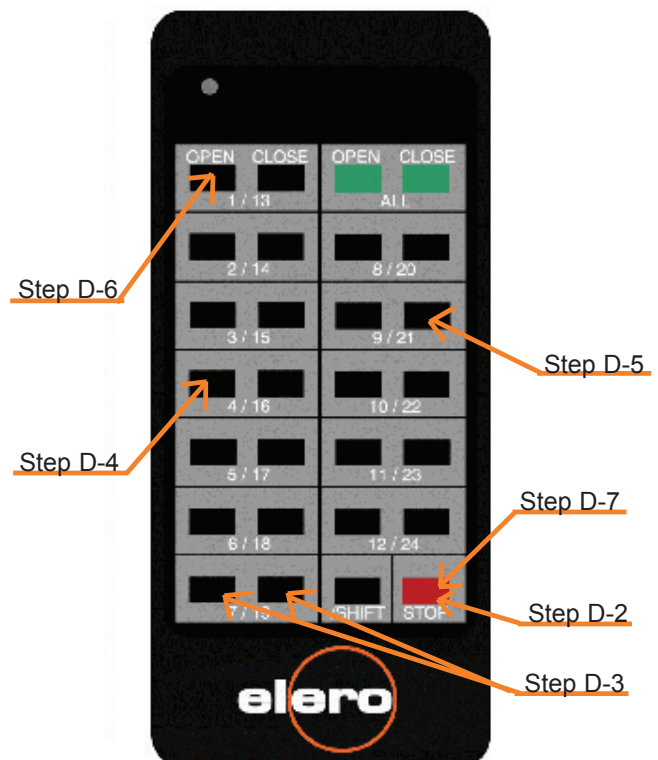
Important Note:

The limit setting is best done after on-site installation. The prior selection of individual motor channels makes it possible for a licensed electrician to install all systems and complete the electrical power connections without having to disconnect the power when setting individual limits later.

Carefully match the channel number that you marked on the system during Step B with the chosen channel on the transmitter.

D. Set the open limit (upper end stop).

- Step 1:** Run the selected motor to the desired stopping point for the open position.
- Step 2:** Press the "stop" button and keep it depressed.
- Step 3:** Still keeping the "stop" button depressed, press the "open" and "close" buttons for Channel 7. Then release all three buttons. This puts the transmitter in programming mode.
- Step 4:** Press the "open" button for the channel assigned to this motor (#4 in example). Observe the cluck.
- Step 5:** Press the "close" button for Channel 9. This alerts the motor that the limit is being changed.
- Step 6:** Press "open" button for Channel 1 to set the open limit. Observe the cluck.
- Step 7:** Press "stop" to confirm the entry.



E. Set the close limit (lower end stop).

Step 1: Run the selected motor to the desired stopping point for the closed position.

Step 2: Press the "stop" button and keep it depressed.

Step 3: Still keeping the "stop" button depressed, press the "open" and "close" buttons for Channel 7. Then release all three buttons. This puts the transmitter in programming mode.

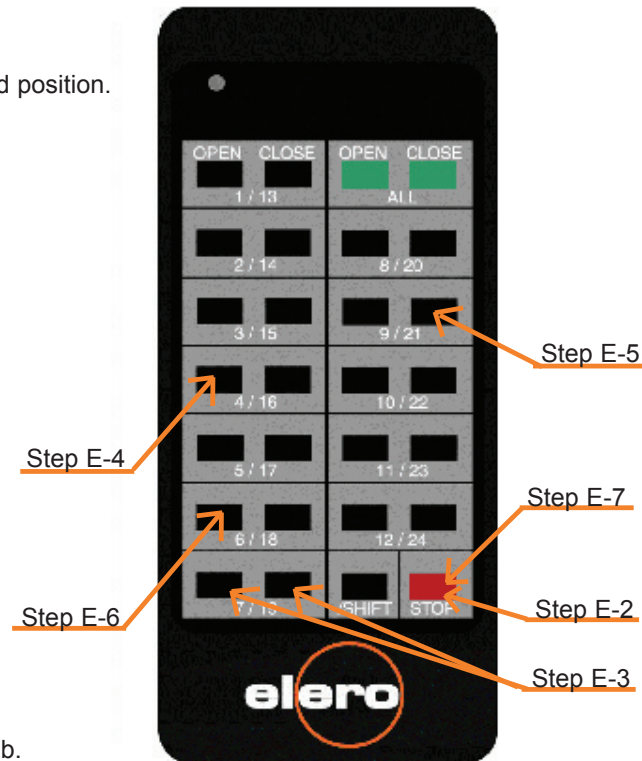
Step 4: Press the "open" button for the channel assigned to this motor (#4 in example). Observe the cluck.

Step 5: Press the "close" button for Channel 9. This alerts the motor that the limit is being changed.

Step 6: Press the "open" button for Channel 6 to set the close limit. Observe the cluck.

Step 7: Press "stop" to confirm the entry.

This motor has now been programmed for automatic open and close positions at the chosen channel.



F. Add an additional programming transmitter, operating transmitter or key-fob.

If one or more different transmitters are to be used for operation, the motor must be trained to those transmitters. Up to four additional transmitters may be added.

Step 1: Press the "stop" button and keep it depressed.

Step 2: Still keeping the "stop" button depressed, press the "open" and "close" buttons for Channel 7. Then release all three buttons. This puts the transmitter in programming mode.

Step 3: Press the "open" button for the channel assigned to this motor (#4 in example). Observe the cluck.

Step 4: Press the "close" button for Channel 8 to alert the motor that a transmitter is being changed.

Step 5: Press the "open" button for Channel 2 to specify that a new transmitter is being added.

Step 6: Press any button on the NEW transmitter. It is not necessary to press "stop" to confirm this command.

To set the many optional functions, such as intermediate stops, group and sub-group programming, see the Advanced Programming Guide.

Your Elero supplier

