IMPORTANT USER SAFETY INSTRUCTIONS

A MOVING GARAGE DOOR CAN CAUSE INJURY OR DEATH!
TO REDUCE THE RISK OF SEVERE INJURY OR DEATH:

1. READ AND FOLLOW ALL INSTRUCTIONS.
2. NEVER LET CHILDREN OPERATE, OR PLAY WITH GARAGE DOOR CONTROLS! KEEP REMOTE CONTROL AWAY FROM CHILDREN.
3. Always keep moving door in sight and away from people and objects until it is completely closed. NO ONE SHOULD CROSS THE PATH OF THE MOVING DOOR.
4. NEVER OPERATE A GARAGE DOOR THAT HAS BEEN STOPPED AND IS LOCKED IN PLACE.
5. The garage door must be completely closed when you leave your vehicle.
6. Be alert. When the opener is activated in an attempt to open the door, the opener’s lights will flash 5 times if a remote is not transmitted within 30 seconds, or if no wall station is pressed. The door will stop immediately if any part of the door touches an object.

SAFETY LIGHTING

WHENEVER OPERATING: THE LIGHTS WILL TURN ON FOR ABOUT MINUTES.
NOTE: FLASHING LIGHTS INDICATE TROUBLE.

REASSEMBLE UNIT PLUS SIDE UP.

ENGINEERED TO DISCONNECT THE OPERATOR BEFORE THE TOP OF THE DOOR IS OPENED.

OPENING THE DOOR:

Ì Press the opener’s LEARN button. The red LEARN light will glow. The remote must stay within 30 ft. of the opener. A remote must be added or removed while the red LEARN light is on.
Ì Send a signal from a remote control. The opener's lights will flash once if a remote is added, or the remote's LEARN button will light for 10 seconds if a remote was removed.
Ì To reprogram the opener, the remote LEARN light will blink three times signaling that all of the remotes in the opener's memory were erased. The red LEARN light will turn off, then turn on for 15 seconds. A remote control can be entered during this same time using the programming keypad.

Testing:
- Before testing the remote control, straighten out the remote's antenna wire so it points up.
- Stand clear of the door, press the remote control's button and verify that the door moves in the direction intended.

Replacing a Remote’s Controls:
When the remote light or the remote goes dim or to alert to the user that the remote is active. Consider replacing the remote control:
1. Open the remote’s case and remove the circuit board.
2. Replace old batteries with two Type 3020 batteries.
3. Re-assemble the remote.

3. Garage Door Opener Maintenance
Weather conditions may affect the operation door which could require some re-setting of the opener’s adjustments.Doors swell and become larger during wet periods, and may bind during cold periods. To maintain the operation of the door, perform the following tests, including any additional test steps described.

Every Month:
1. With the door closed, pull the red release handle to disconnect the opener from the door.
2. From outside the garage, slowly open the door manually all the way and then close it all the way. Notice if there is any binding, sticking or rubbing. The door should move smoothly in both directions.
3. Raise the garage door about halfway. Carefully release the door and see if the door balances. It should stay in place for several seconds.

NOTE: If the garage door is unbalanced or the door travel isn’t smooth, have a qualified garage door professional adjust the opener.
4. To reconnect the opener, flip the release lever up. Raise the door manually until it makes contact with the opener's 10" sensor. The Safety Barrier System will activate and stop the garage door.
5. Perform the Safety Reversal System Test as described in the 4-6 Sections.

After the Serviceing:
1. Perform the Safety Beam Test (Section 4).
2. From the Open and Close Limit Adjustments (Section 5).
3. Perform the entire Door Force Safety System Test (Section 6).

Every 6 Months
Check the ball or chain tension.
• For chain-drive rails, examine the length of the tension spring in the traveler; it should be about 1" long.
• For drive chains, examine the spacing between the link and the link. The link should never be above the rail.

NOTE: Too much or too little chain tension will cause excessive sprocket noise.

Chain Adjustment
1. If necessary, use the following steps to adjust the chain:
2. Hold the spring with a flat blade screwdriver and gently loosen the two locknuts with a 7/16" wrench.
3. If the garage door is not balanced or the door travel isn’t smooth, checks the length of the spring tension. If the length is longer than 1.5", adjust the chain.
4. Adjust the traveler so the adjustment wheel is visible through the large slot.
5. Use a flat blade screwdriver to turn the adjustment wheel to compensate for the tension spring until its length is between 1.5" and 1.9" long.
6. Every Year
Check the door hardware lubricated. Nuticate door hinges, rollers and bearings according to door manufacturer’s recommended procedures.
4 Testing the Infrared Safety Beam

The safety beam has two components, a sender and a receiver. The sender produces a narrow infrared beam that travels across the bottom of the door opening to the infrared receiver. If an object blocks the infrared beam while the door is closing, the door will reverse and open. The OPEN FORCE adjustment compensates for the distance the beam will flash three times.

As a safety feature, the opener will ignore signals from all remote controls if the door is open and the infrared safety beam is blocked or out of alignment. In this case, the door can be forced closed by pressing and holding the wall unit's up/down arrow pushbutton (be sure the beam area is in clear view).

**WARNING**

With the door closed, disengage the travel arm from the chains during these alignment tests by pulling the red release handle.

**Safety Beam Test**

1. Check that the opener has power. The green lights on the sender and receiver should be lit.
2. If the receiver's green light is on, but the red light is off, the receiver has power but has not been serviced by the infrared beam. Adjust the safety beam sender and receiver while watching the receiver's red light. Pull the red release handle and keep it pulled. If the red light stays on, the beam is aligned.

**SAFETY BEAM INDICATOR TABLE**

<table>
<thead>
<tr>
<th>Light Pattern</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red OFF</td>
<td>Beam OK</td>
</tr>
<tr>
<td>Red ON</td>
<td>Beam OK but blocked</td>
</tr>
<tr>
<td>Red Flashing</td>
<td>Beam alignment needed</td>
</tr>
</tbody>
</table>

**NOTE:** If the receiver's red light remains off, check for: 1) Dirt on the receiver's lens. 2) Sunlight shining into the receiver's lens. 3) A short in the safety beam wiring. Try replacing the infrared beam and checking alignment.

3. With the door closed, no door opened, the sensor head is covered from the ground downward, press the wall unit's UP/DOWN ARROW button to move the traveler (the part on the belt or chain that the trolley engages with) to the up position (away from the door).

4. Push the wall unit's UP/DOWN ARROW button again. The traveler moves to the down position. Praise the pushbutton before the opener; check that the traveler returns to up position.

5. Face the door in the path of the safety beam. Check that constant pressure is required on the wall unit's UP/DOWN ARROW button to move the traveler toward the down position. Release the pushbutton before the opener; check that the traveler returns to the up position.

6. To reconnect the opener, flip the release lever up. Raise the door manually until the opener reconnects. The opener will stop the door.

5 Adjusting the Open and Close Limits

The limits adjustments that control how far the door will open or close are located on the side of the opener. The limits should be adjusted so the door opens just short of any door stops, and closes right at the floor level. Each full turn of a limit adjustment equals about ½” of door travel.

**CAUTION**

Set the open and close limits carefully. Setting the limits beyond the distance that the door can travel could damage the door, the door hardware, or opener.

1. Start with the door in the closed position.
2. Activate the remote control. Wait while the door moves to the open position and stops.
3. Examine the position of the door:
   a. If the door needs to open more, turn the OPEN LIMIT adjustment clockwise ¼-turn (towards UP on the label) to raise the open limit.
   b. If the door needs to close less, turn the CLOSE LIMIT adjustment clockwise ¼-turn (towards DOWN on the label) to lower the close limit.
4. Activate the remote control. Wait for the door to move down a few feet, then activate the remote control again to stop the door.
5. Repeat Steps 2-4 until the open limit is properly adjusted.
6. Activate the remote control. Wait while the door moves to the closed position and stops.
7. Examine the position of the door:
   a. If the door needs to close more, turn the CLOSE LIMIT adjustment counterclockwise ¼-turn (towards DOWN on the label) to lower the close limit.
   b. If the door needs to close less, turn the CLOSE LIMIT adjustment clockwise ¼-turn (towards UP on the label) to raise the open limit.
8. Activate the remote control. Wait for the door to move up a few feet, then activate the remote control again to stop the door.
9. Repeat Steps 6-8 until the close limit is properly adjusted.

**NOTE:** If the door stops during opening or reversing during closing before reaching the limits, the door force adjustment needs to be changed. Change the OPEN LIMIT adjustment as described in the next section then return to step 2 to finish setting the limits.

6 Testing and Adjusting the Door Force Safety System

The door force adjustments are located on the side of the opener. The door force adjustments must be properly set at all times. The CLOSE LIMIT adjustment controls how much force is required to cause the door to reverse direction if an obstruction is encountered during closing. The OPEN LIMIT adjustment controls how much force is required to stop the door if an obstruction is encountered during opening.

**WARNING**

Too much door force will interfere with the proper operation of the safety system. SOMEONE COULD BE SERIOUSLY INJURED OR KILLED IF THE DOOR FORCE IS SET TOO HIGH. A closing door might not reverse properly if required and someone could be pinned under it. An opening door might not stop when going up and someone hanging on the door could get pinned between the door and the header. Do not increase the door force beyond what is required to stop the door. DO NOT USE THE DOOR FORCE ADJUSTMENT TO COMPENSATE FOR A BINDING OR STICKING GARAGE DOOR. PERIODIC ADJUSTMENT OF THE SAFETY REVERSAL SYSTEM TEST (STEPS 4-6) MONTHLY!

**NOTE:** Read the following directions carefully before changing any of the door force adjustments.

**Door Force Safety System Test**

1. Start with the door open. Use the remote control to cycle the door during this test.
2. **Adjusting the Close Force**
   a. Turn the CLOSE FORCE adjustment 1-8 ft-lbs a time in the DECREASE direction (counterclockwise) until the door stops or reverses midway while going down.
   b. Turn the CLOSE FORCE adjustment 1-8 ft-lbs in the INCREASE direction (clockwise) until the door fully opens without reversing.
   c. Repeat this test until the door opens just short of the door stops.
   d. Adjust the close force adjustment to the minimum amount necessary to stop the door without reversing.

3. **Safety Reversal System Test**
   a. Lay a 2 x 4 board flat on the floor where it will be struck by the bottom of the door. Ensure the door can be closed from the open position.
   b. Verify that the door reverses when it strikes the board.
   c. The door must reverse within two seconds after striking the door.

**NOTE:** If the door stops after encountering the board and does not reverse, the CLOSE FORCE needs to be DECREASED.

4. **Repeat the Safety Reversal System Test** until the door reverses within two seconds after striking the door.

5. **Adjusting the Open Force**
   a. Turn the OPEN FORCE adjustment 1-8 ft-lbs a time in the DECREASE direction (counterclockwise) until the door stops while going up.
   b. Turn the OPEN FORCE adjustment 1-8 ft-lbs in the INCREASE direction (clockwise) until the door fully opens without stopping.

6. **Replacing the Opener’s Lamps**
   a. If one of the opener’s safety lamps fails to light manually or if someone is cycled, the light bulb needs replacing. Use the following steps to replace a bad light bulb:
   b. Press the release tabs and swing the light cover open to expose the light bulb and lamp socket.
   c. Replace the light bulb with a 100 watt maximum, rough service bulb (sometimes called a garage door bulb).
   d. Swing the light cover closed, snapping it into place.
   e. Press the wall station’s up/down button to test the lamp.

7 Troubleshooting

**LAMPS FLASH TRouble CODE**

<table>
<thead>
<tr>
<th>Code</th>
<th>Problem</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 FLASH</td>
<td>No problem</td>
<td>Add any additional remote controls (MegaCode™ type only)</td>
</tr>
<tr>
<td>2 FLASHES</td>
<td>Door won’t close</td>
<td>Check wall station wiring. Make sure both are connected to the receiver. Secure any loose wiring.</td>
</tr>
<tr>
<td>3 FLASHES</td>
<td>Door won’t close</td>
<td>Check wall station wires. Be sure both are connected to the receiver. Secure any loose wiring.</td>
</tr>
<tr>
<td>4 FLASHES</td>
<td>Door won’t open or won’t stop</td>
<td>Check wall station wiring. Make sure both are connected to the receiver. Secure any loose wiring.</td>
</tr>
<tr>
<td>5 FLASHES</td>
<td>Door won’t open or won’t stop</td>
<td>Check wall station wiring. Make sure both are connected to the receiver. Secure any loose wiring.</td>
</tr>
<tr>
<td>6 FLASHES</td>
<td>Door won’t stop or reverse</td>
<td>Check wall station wiring. Make sure both are connected to the receiver. Secure any loose wiring.</td>
</tr>
</tbody>
</table>

**CHECKING THE SPEED LIMIT ADJUSTMENT**

1. Set the door in the DOWN position.
2. Press the up button on the receiver to move the door up at full speed.
3. Set the door in the UP position.
4. Press the down button on the receiver to move the door down at full speed.

**WARNING**

Modifications or instructions not expressly described in this manual or approved by the manufacturer could void the owner’s authority to operate the equipment. This device complies with FCC Part 18. Operation is subject to the following two conditions: (1) This device may not cause unintentional interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**WARRANTY**

This Linear product is warranted to the original consumer against defects in material and workmanship for one year. Linear will repair or replace, at its option, any device that fails to perform under the warranty for a period of one year. Linear will not be responsible for damage to the product from fire, flood, mishandling, abnormal use or misuse, accident, natural disaster, or damage caused by the customer or third parties. In no event will Linear be responsible for incidental or consequential damages, so the above limitation or exclusion may not apply to you.

**SERVICE INFORMATION**

For service and other instructions contact Linear at 1-800-243-0305 in the US or 1-800-747-1766 outside the US. Call your local dealer for garage door service.

**PRODUCT**

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