FUNCTION

When the gate is in motion, the timer circuit will activate the red lamp holder and remain illuminated until gate reaches open or closed position. When the gate reaches the full open position, the timer circuit will activate the green lamp holder and will remain illuminated based on timer setting. When the gate reaches the closed position, the timer circuit will activate the red lamp holder and will remain illuminated based on timer setting.

MOUNT THE LIGHT BOX

**NOTE:** If the operator requiring modification does not contain required holes for light box mounting, it will be necessary to add the holes. Use screws provided in kit for mounting (Figure 1).

1. Disconnect power to the operator.
2. Attach the mounting bracket to the electrical box with the self-tapping screws (2) provided.
3. Attach the light box assembly to the light box mounting bracket. Secure in place with the self-tapping screws (2) provided.
4. Connect conduit between light box assembly and electrical box. Use the knockout hole shown on Figure 3.

**NOTE:** To avoid damage to relays, DO NOT EXCEED the following:

- **Red light** - 75w, 120v incandescent bulb or 3a, 250vac (resistive load).
- **Green light output** - 75w, 120V incandescent bulb or 3a, 250Vac (resistive load).
- **Conduit, wiring, and connectors** should be sized and installed per the national electric code.

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**WARNING**

To prevent possible SERIOUS INJURY or DEATH from electrocution, disconnect electric power to operator BEFORE installing.

ALL electrical connections MUST be made by a qualified individual.
INSTALLATION

MOUNT COMPONENTS

NOTE: For additional component mounting reference, see Figure 2.

If the operator requiring modification does not contain required pem studs for component mounting, it will be necessary to add holes. Use screws provided in kit for mounting (Figure 3).

1. Mount timer on the pem studs in the electric box using the locknuts (2) provided.
2. Mount the relay assembly on the pem studs in the electric box using the locknuts (4) provided.
3. Mount the auxiliary limit switches using existing switch hardware; note that the auxiliary limit switches are mounted on top of the existing limit switches.

NOTE: If actuator on existing switches has been bent for adjustment, it may be necessary to bend actuator arms on new switches.

Figure 2

Figure 3

Auxiliary Limit Switches

Timer (Shown From Outside Box)

Knockout for Conduit

(8) Holes
**WIRING**

**WIRE CONNECTIONS FROM RELAY ASSEMBLY**

**NOTE:** The following wires are provided from the factory pre-wired to relay K1 & K2.

1. Connect red wire from relay (K1-7) to timer (T1).
2. Connect red wire from relay (K2-5) to timer (T2).
3. Connect grey wire from relay (K1-6) to auxiliary open switch (NO).
4. Connect yellow wire from relay (K2-3) to auxiliary open switch (NC).
5. Connect purple wire from relay (K2-8) to auxiliary close switch (NO).
6. Connect white wire from relay (K1-1) to white wire coming from red socket in light box with wire nut.
7. Connect white wire from relay (K1-2) to white wire coming from green socket in light box with wire nut.
8. Connect grey wire from relay (K1-5) to auxiliary close switch (NC).
9. Connect red wire from relay (K1-8) to 115 Vac input power with wire nut.
10. Connect grey wire from relay (K2-7) to 115 Vac input power with wire nut.

**WIRE CONNECTIONS FOR LOOSE WIRES**

**NOTE:** The following wires are provided from the factory in the hardware bag.

1. Connect yellow wire from auxiliary open switch (COM) NEUTRAL input with wire nut.
2. Connect yellow wire from auxiliary open switch (NC) to auxiliary close switch (COM).

**NOTE:** The following wires are located in the light box assembly.

1. Confirm the white wires from light box have been wired to the corresponding wires on the relay from above.
2. Connect red wire from light box to 115 Vac input power with wire nut.

**NOTE:** This is an electrical diagram. It does not reflect location of electrical components.

**WIRING DIAGRAM**

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**WIRING CHART**

### LOOSE WIRES

<table>
<thead>
<tr>
<th>WIRE DESCRIPTION</th>
<th>CONNECTION TO BE MADE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire, 3' Yellow</td>
<td>Aux. Open</td>
</tr>
<tr>
<td>3/16' Faston x 3/16' Faston</td>
<td>Limit (NC)</td>
</tr>
<tr>
<td>Wire, 28' Yellow</td>
<td>Aux. Open</td>
</tr>
<tr>
<td>3/16' Faston x 1/4' Strip</td>
<td>Limit (COM)</td>
</tr>
<tr>
<td>Wire, 26' White</td>
<td>Incoming</td>
</tr>
<tr>
<td>3/16' Faston x 1/4' Strip</td>
<td>Neutral</td>
</tr>
</tbody>
</table>

### WIRE CONNECTIONS FROM RELAY ASSEMBLY

<table>
<thead>
<tr>
<th>WIRE DESCRIPTION</th>
<th>PREWIRED TO RELAY</th>
<th>CONNECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire, 6' Grey 2 x 3/16' Faston</td>
<td>K1-6</td>
<td>Aux. Open Limit (NO)</td>
</tr>
<tr>
<td>Wire, 6' Grey 2 x 3/16' Faston</td>
<td>K1-5</td>
<td>Aux. Close Limit (NC)</td>
</tr>
<tr>
<td>Wire, 26' Grey 3/16' Faston x 1/4' Strip</td>
<td>K2-7</td>
<td>Incoming 115 Vac</td>
</tr>
<tr>
<td>Wire, 26' White 3/16' Faston x 1/4' Strip</td>
<td>K1-1</td>
<td>White Wire (Connected to Red Socket)</td>
</tr>
<tr>
<td>Wire, 26' White 3/16' Faston x 1/4' Strip</td>
<td>K1-2</td>
<td>White Wire (Connected to Green Socket)</td>
</tr>
<tr>
<td>Wire, 6' Purple 3/16' Faston x 3/16' Faston</td>
<td>K2-8</td>
<td>Aux. Close Limit (NO)</td>
</tr>
<tr>
<td>Wire, 10' Red 3/16' Faston x 1/4' Faston</td>
<td>K2-5</td>
<td>T2 Timer</td>
</tr>
<tr>
<td>Wire, 10' Red 3/16' Faston x 1/4' Faston</td>
<td>K1-7</td>
<td>T1 Timer</td>
</tr>
<tr>
<td>Wire, 26' Red 3/16' Faston x 1/4' Strip</td>
<td>K1-8</td>
<td>Incoming 115 Vac</td>
</tr>
<tr>
<td>Wire, 6' Yellow 3/16' Faston with Spade x 3/16' Faston with Spade</td>
<td>K2-3</td>
<td>Aux. Open Limit (NC)</td>
</tr>
</tbody>
</table>
TESTING

TEST THE OPERATOR
1. Install red and green lights (not provided). Use 75 watt maximum.
2. Set timer to desired delay for lights to remain on after reaching open and closed position. Refer to relay label for setting between 1-512 seconds.
3. Install cover and power up unit.
4. Test functionality based on the following:
   a) When the gate is in motion the timer circuit will activate the red lamp holder and will remain illuminated until gate reaches open or closed position.
   b) When the gate reaches the full open position, the timer circuit will activate the green lamp holder and will remain illuminated based on timer setting.
   c) When the gate reaches the closed position, the timer circuit will activate the red lamp holder and will remain illuminated based on timer setting.

HOW TO ORDER REPAIR PARTS
Our large service organization spans America. Installation and service information are available.
Call our TOLL FREE number:
1-800-528-2806
www.liftmaster.com