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***Lionel
Auto Crossing Gate
Owner's Manual***

Congratulations on your purchase of the Lionel Auto Crossing Gate. Place the signal at any grade crossing on your Lionel railroad, and passing trains will automatically lower the gate.

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The name FasTrack® is used with permission from Pitsco, Inc.

Installing the 153C Contactor

The 153C Contactor is activated by the weight of a passing train. Place the Contactor under the track, as shown in Figure 1.

One of the track ties should rest firmly upon the top of the pressure plate. If your track is fastened to a board, loosen several sections on either side of the Contactor so that the track is able to bend under the weight of the train.

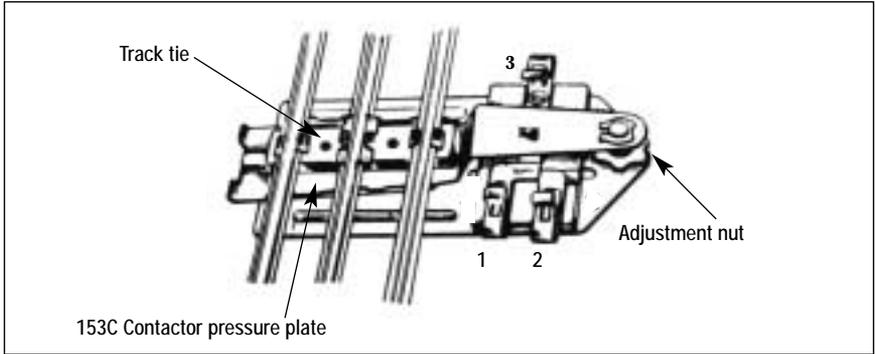


Figure 1. 153C Contactor

Wiring your Auto Crossing Gate to a power source

Your Auto Crossing Gate operates best at 12-18 volts (AC). Have an adult strip 1/4" of insulation from both ends of the three wires included with the Auto Crossing Gate, if they have not already been stripped.

Caution! Only an adult should perform this task. Always use care when stripping wires.

Connect one wire to each terminal post on the base of the accessory. Then connect the other ends to the #153C Contactor and transformer as shown in Figure 2 below. We recommend that you connect the Crossing Gate to the same 135C Contactor.

To connect a wire to the Contactor's spring clips, press down the upper half of the spring clip terminal until the lower part projects through the slot. Insert the bare wire end into the loop, then release the upper part of the clip. Spring tension will hold the wire tight.

Note! This accessory will also operate using an insulated track section (available separately).

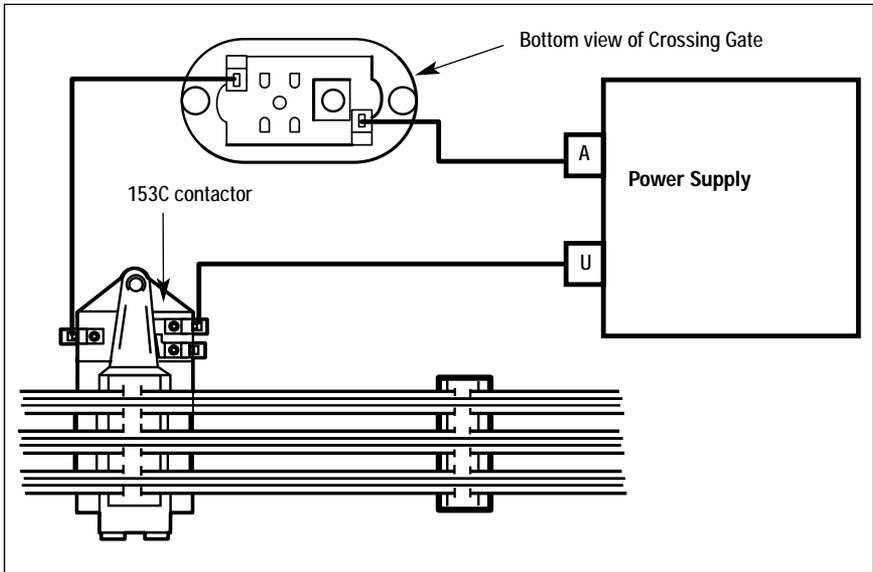


Figure 2. Accessory connections

Adjusting the Contactor

After all the connections are made and your layout is powered up, the Contactor must be adjusted so that the train will properly trigger the accessory.

1. Stop the train several sections away from the Contactor so that it does not press on the Contactor plate.
2. Turn the adjustment nut either up or down until the accessory lowers the gate. Refer to Figure 1 on page 3 for the location of the adjustment nut.
3. Back up the adjustment nut just enough to cause the gate to return to its upright position.

Operating the Crossing Gate

When properly adjusted, the 153C Contactor will respond to light pressure on the track, causing the gate to lower as long as any part of the train is triggering the Contactor. After the train has cleared the Contactor, the gate will return to the upright position.

Connecting your Auto Crossing Gate to a 153IR Controller

The 153IR Controller (available separately, 6-14111) is an alternative to the 153C Contactor. While the 153C Contactor relies on the weight of the train to cause the contact points to change, the 153IR is triggered by an Infrared motion sensor. The 153IR also allows you to set the length of time that the accessory remains on. Consult the 153IR owner's manual for more information and refer to these steps and Figure 3 below.

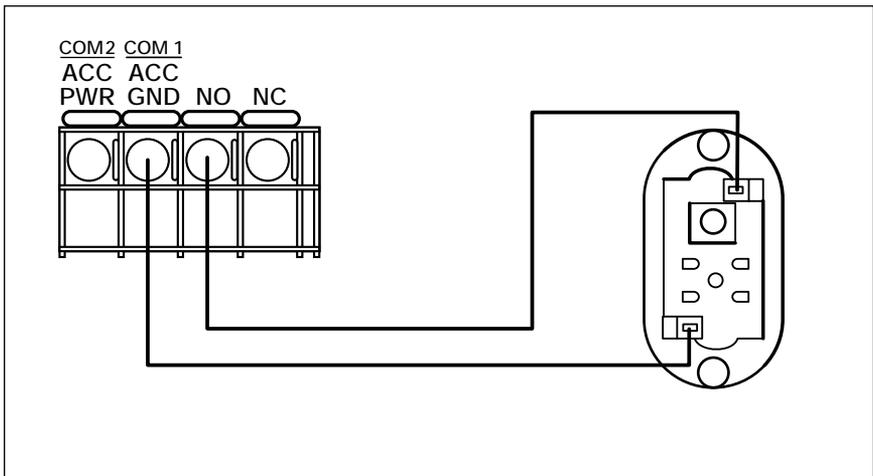


Figure 3. 153 IR connections

Connecting your Auto Crossing Gate for operation with the FasTrack Track System

To operate this accessory with the FasTrack track system, you will need the Accessory Activator Pack (available separately, 6-12029). Simply connect the two wires from the Insulated Track section directly to your accessory's power terminals. Refer to Figure 4. The accessory receives power from the track and operates at track voltage. You must be sure that the track is given enough power to operate the trains and your accessory. To make the proper connections, the ends of the wires should be stripped back 1/8" to 1/4".

Caution! Only an adult should perform this task. Use a pair of wire strippers to strip the wires. Always use care when stripping wires.

The accessory will operate only when the track is powered up and the train is between the breaks in the rail.

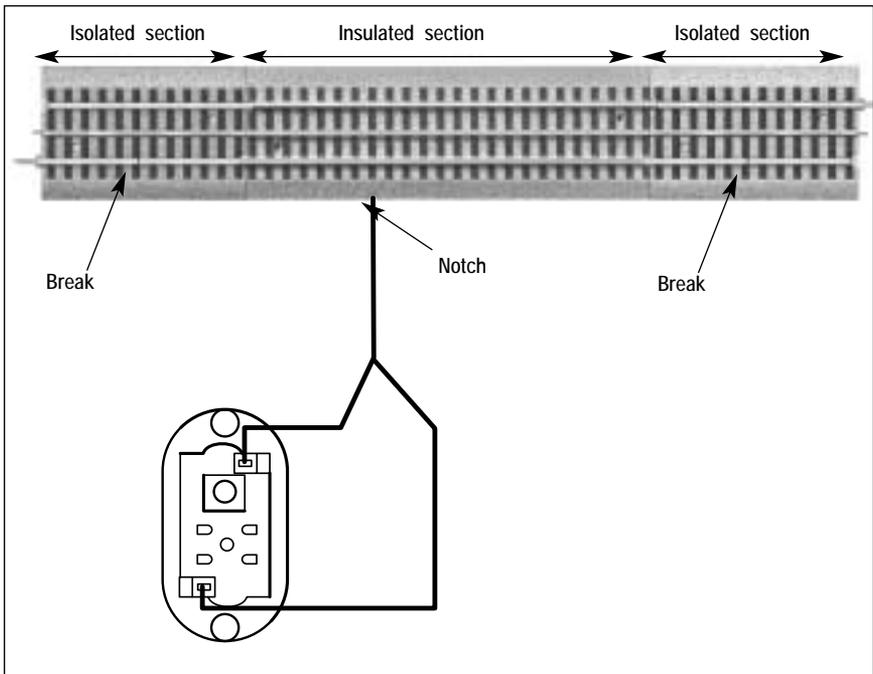


Figure 4. Track power connections

Replacing your Auto Crossing Gate's lamp

Your Auto Crossing Gate is illuminated by one lamp. During the course of normal operations, you may find that this lamp requires replacement. Replacement lamps (Lionel part no. 600-0363-300) are available from your authorized Lionel Service Center or from Lionel Service in Chesterfield, MI.

1. Locate the two metal tabs on the bottom of the accessory. Squeeze the tabs together to disengage the bracket as you lift it out of the base. Refer to Figure 5.
2. Press down on the expired lamp, rotate it counter-clockwise, and pull it straight up and out of the socket.
3. Lower the replacement lamp into the socket, press it down, and then rotate it clockwise until the nubs lock into the channels in the socket.
4. Insert the socket into the base of the Crossing Gate until the metal bracket snaps into place.

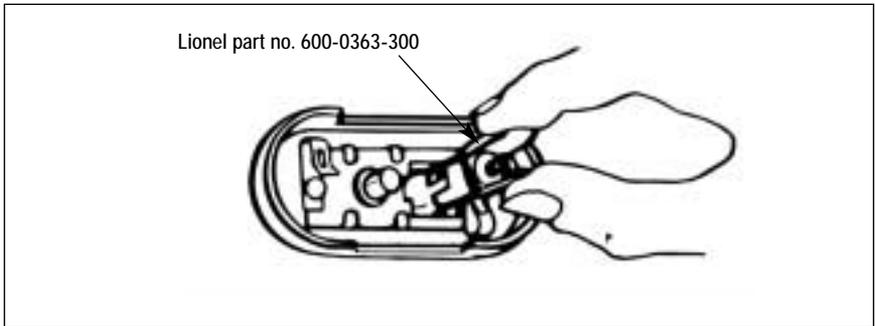


Figure 5. Lamp replacement

Limited Warranty/Lionel Service

This Lionel product, including all mechanical and electrical components, moving parts, motors and structural components, except for light bulbs, is warranted to the original consumer-purchaser, for **one year** against original defects in materials or workmanship when purchased through an authorized Lionel merchant.

This warranty does NOT cover normal wear and tear, light bulbs, defects appearing in the course of commercial use, or damage resulting from abuse or misuse of the product by the purchaser. Transfer of this product by the original consumer-purchaser to another person voids this warranty. Modification of this product voids this warranty.

Any warranted product which is defective in original materials or workmanship and is delivered by the original consumer-purchaser to Lionel L.L.C. or an authorized Lionel L.L.C. Service Center, together with proof of original purchase will, at the option of Lionel L.L.C., be repaired or replaced, without charge for parts or labor. In the event the defective product cannot be repaired, and a replacement is not available, a refund of the original purchase price will be granted. Any products on which warranty service is sought must be sent freight or postage prepaid, as transportation and shipping charges are not covered by the warranty.

In no event shall Lionel L.L.C. be liable for incidental or consequential damages.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you.

This limited warranty gives you specific legal rights, and you may have other rights which vary from state to state.

Instructions for Obtaining Service

If service for this Lionel L.L.C. product is required, bring the item, along with your dated sales receipt and completed warranty information to the nearest Authorized Lionel Service Center. Your nearest Lionel Service Center can be found by calling 1-800-4-Lionel, or by accessing our Website at www.lionel.com.

If you prefer to send your product back to Lionel L.L.C. for repair in Michigan, you must first call 586-949-4100 or FAX 586-949-5429, or write to Customer Service, P.O. Box 748, New Baltimore, MI 48047-0748, stating what the item is, when it was purchased and what seems to be the problem. You will be sent a return authorization letter and label to ensure your merchandise will be properly handled upon receipt.

Once you have received your return authorization and label, make sure that the item is packed to prevent damage during shipping and handling. We suggest that you use the product's original packaging. This shipment must be prepaid and we recommend that it be insured.

Please make sure you have followed all of the above instructions carefully before returning any merchandise for service. You may choose to have your product repaired by one of our Authorized Lionel Service Centers after its warranty has expired. A reasonable service fee will be charged.

Warranty Information

Please complete the information below and keep it, along with your dated sales receipt. You must present this and your dated sales receipt when requesting warranty service.

Name _____

Address _____

Place of Purchase _____

Date of Purchase _____

Product Number _____

Product Description _____



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