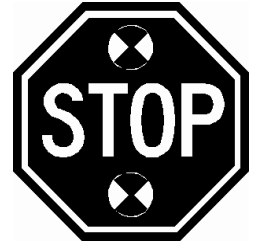


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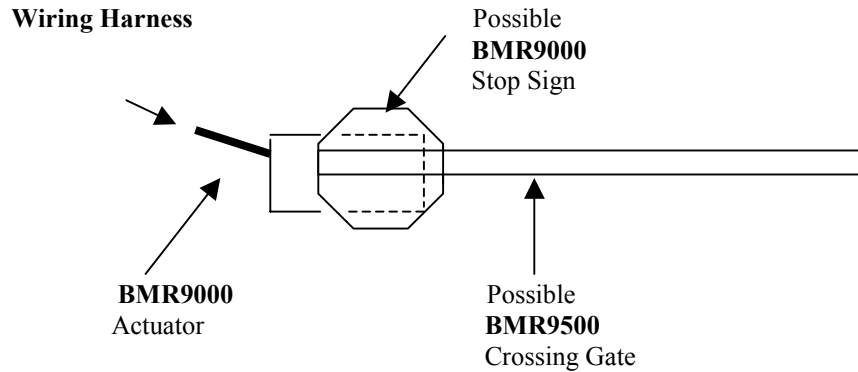
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Installation and Operation of the Series BMR9000 Stop Arm and Crossing Gate Assembly.

The **BMR9000** actuator is a solid-state device that drives either a Stop Arm or Crossing Gate to the extended position and to the retracted position without the use of switches or sensor to determine position.

No current is flowing in the retracted position.

The operation can be inhibited for a door opening cycle if desired.



Mounting

Mount on the side of the bus or attach to the front bumper as other actuators would be attached. Mounting hardware is included. Mounting brackets are available.

Wiring BMR9012H (4 Wires)

There are four wires in the wiring harness.

Green - Vehicle ground. This should be a good clean grounding point.

Red - Vehicle +12 volts. Via the master switch if desired.

Yellow - +12 volts when side door is opened.

White - To optional momentary grounding switch. (**Inhibit option BMR9800P kit**)

Operation

When +12 volts is applied to the yellow wire, the actuator will extend and stay extended as long as the +12 volts is maintained on the yellow wire.

When the +12 volts is removed from the yellow wire, the actuator will retract.

When the white wire is grounded while the unit is retracted, the next operation will be inhibited. Subsequent operations will not be effected. See kit **BMR9800P**.

Replacement with BMR9000 Series Crossing Gate

The BMR7000 Series crossing gate harness is a 3 wire connection. The BMR9000 series harness uses 4 wires. The adapter (BMR9712H) aligns the connection. When the inhibit feature is desired, use the new 4 wire source harness (Included).

To Replace an existing SMC crossing gate, disconnect from source the +12 volt (yellow wire). This wire is the feed to the internal heater needed to keep the limit switches from freezing. B.M.R. MFG. INC. DOES NOT USE LIMIT SWITCHES (No need for a heater). This wire can now be used for the inhibit feature. With a (BMR9000P Optional Kit) the operation to open the crossing Gate can be cancelled one time, then the crossing gate will return to normal operation.

Troubleshooting.

If the unit does not function correctly:

- Check that the correct voltages are on the red and yellow wires.
- Check to ensure that the white wire is not inadvertently grounded.
- Check the continuity of the ground connection. Do this by taking a separate wire from the green wire to the negative post on the battery.