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Installation Instructions for Electric, Vacuum & Air Crossing Arms

1. Place the operating base unit on the face of the bumper on the passenger door side as near to the end as practical, level and align the unit and mark holes for drilling. Ensure that the arm opens parallel to the ground. Locate and drill access holes in the bumper if necessary, for air & vacuum lines or electric wires.
Note: If bumper mount brackets are used, these should be attached to the operating base prior to locating and drilling holes.
2. Connect and attach all wires or vacuum or air line where applicable. Be sure to attach the restrictor fitting to the operating base of vacuum & air units.
3. ELECTRIC UNIT (Series 7000)
If unit is to be operated in conjunction with an electric Stop Arm, no other switches are required.
 - A) Connect **red** wire to + battery source (master switch) in compliance with State or Provincial regulations. **Red** wire commands to closing cycle.
 - B) Connect **yellow** wire to + power source when door is open in compliance with State or Provincial regulations. The **yellow** wire command the opening cycle.
 - C) Connect **green** wire (Ground) to interior of bus to secure a corrosion free connection.
4. VACUUM OR AIR UNIT
If the unit is to be operated in conjunction with the Stop Arm, no other valves are needed. Just connect the Crossing Arm vacuum or air line to a "Y" fitting place between the Stop Arm and its activating valve. If Crossing Arm is to be activated after the Stop Arm, place an electric solenoid valve in the line between the "Y" fitting and the Crossing Arm. (**CAUTION:** Be sure to connect tubing from vacuum air source to side marked "IN" on valve. Tubing from Crossing Arm base should be connected to side marked ("CYL"). One electric solenoid wire should be connected to ground, the other to the switch desired to actuate the unit.

Air unit only: If solenoid valve and regulator installation is necessary, regulator is provided in a closed position. After base installation, activate solenoid valve and gradually increase air pressure. (**CAUTION:** Do not exceed maximum pressure required to open to 90 degrees, otherwise, damage to unit may result).

5. Test the unit. Attach the flexible Yellow Bar to the mounting bracket and hinge bracket simultaneously with the 1/4-20 bolt and hex nut provided. Tighten securely.

