Innovative Technology of America

ST2000 Safety Transmitter

Installation Procedure - Striping Vehicle

1. Supplied Material

Drill Template
8-32 Button heads screws
Interconnect (power) cable

2. Tools required

Wire stripper
Screwdriver with "Allen Wrench" head
Drill and #18 bit (8-32 screws) plus 1.2" bit (antenna aperture)
Tube of clear silicon gasket seal

3. Mounting the transmitters

3a. Place the drill template at the desired location. Drill the four holes with the #18 bit. Repeat this procedure at the other end of the vehicle. Drill out the center hole with the 1.2-inch bit.

3b. Coat the front metal surface only with clear silicon gasket seal.

3c. With one person inside with the transmitter and one outside align the transmitter and mount with the 8-32 screws. Wipe off any sealant the may be on the clear lens of the antenna.

4. Wiring

4a. Power Connectors.
Connect the black wire to chassis ground.
Connect the red wire to one of the red wires from switch box if manual turn-on/off of the transmitters is desired.
Otherwise connect red wire to the desired 12-volt power source in the vehicle.
Connect the green wire to one of the green wires from the switch box.

4b. Switch box.
Green wires connected per above.
Black wire to chassis ground.
Red wire labeled "power" to 12-volt power in vehicle (manual turn-on/off)
Two red wires (unmarked) per above for manual turn-on/off
NOTE-Red wires are not connected if manual on/off is not desired.

Innovative Technology of America

ST2000 Safety Transmitter
School Bus – Installation Procedure

1. Supplied Material

Drill Template
8-32 Button heads screws
Interconnect (power) cable

2. Tools required:

Wire stripper
Multimeter
Screwdriver with "Allen Wrench" head
Drill and #18 bit (8-32 screws) plus 1.2" bit (antenna aperture)
Tube of clear silicon gasket seal

3. General

Determine the power input terminal on the flashers that activate the top red lights. It may require contacting the school bus manufacturer for the flasher locations since it differs between manufacturers and models. Verify the terminal with the multimeter by measuring 12 volts when the lights are activated. Record this information.

4. Mounting the transmitters

4a. Place the drill template above and between the top red and yellow lights on the driver's side. The drill template is butted against the edges of the red and yellow lights for positioning purposes. Drill the four holes with the #18 bit. Repeat this procedure at the other end of the bus. Drill out the center hole with the 1.2-inch bit.

4b. Coat the front metal surface with clear silicon gasket seal.

4c. With one person inside and one outside align the transmitter and mount with the 8-32 screws. Wipe off any sealant the may be on the clear lens of the antenna.

5. Wiring

5a. Plug the interconnect cables into the transmitter connectors.

5b. Connect the black wire to chassis ground and the red wire to the flasher input terminal.

6. Operation

Extend the stop arm - the red flasher and SWS transmitters are activated with the transmitters sending the message "School Bus Loading/Unloading" to approaching vehicles.