

Installation Overview:

The Satellite Box may be critical to the operation of the SC-12 control system. Satellite Boxes are often used when all of the desired toggles cannot fit on a standard SC-12 Master. They may also be used to control non-essential functions outside of the striping operation, such as lights.

Recommended location:

When used as an extension of the SC-12 Master:

Mount near the SC-12 Master in a convenient location.

When used for peripheral functions:

Recommended location varies based on function. For example, if it contains console or reader board functions, it may be best located in or on the rear center console. If the Satellite Box contains light and strobe functions, it may be best suited in the front cab near the driver.

Mounting:

The Satellite Box has nutserts on either side of the unit (to the left and to the right of the front panel). These nutserts should be utilized so the Satellite Box is tiltable, using a U-shaped bracket.

The nutserts accept a Skip-Line supplied #14-32 Hex Bolt. $\frac{3}{4}$ " length (12mm x 1.75mm x 20mm)

Please mount in a location free from exposure to:

- Water
- Pressure Washing
- Excessive mechanical vibration
- Temperature extremes
- Intermittent, poorly regulated, highly inductive, or noisy power sources

Communications Cabling

The Satellite Box gets power and communications from one of the BUS-012 hubs (usually the front hub, although it does not matter) via a CAT5 cable. Connect the Satellite Box to any of the numbered BUS-012 RJ45 jacks (1-8). If properly connected to a BUS-012 hub the large green port light on the BUS-012 hub should be illuminated.

Cabling should use 26AWG (or larger) Cat5 cable and RJ45 connectors. Cat5 cable should not be longer than 5 meters (16.4 feet). The Hubs accept only standard RJ45 plugs. Some of the devices have sealed RJ45 jacks, available from Skip-Line, which will accept either standard or strain-relieved IP-67 rated plugs. See Appendix B of the SC-12 Manual for instructions on RJ45 568-B connector wiring.

Avoid pinch points where the cable may be damaged from moving parts.

Tips:

- Use a continuity tester for all Cat5 cables

Dimensions:

Satellite Box sizes vary by requirements and number of switches.

Large (24 Toggles): 7.38"W x 7.38"H x 2.64"D

Enclosure Used: Hammond 1590FBK

Mid-Sized (18 Toggles): 7.38"W x 4.7"H x 2.21"D

Enclosure Used: Hammond 1590DBK

Small (6 Toggles): 4.7"W x 3.7"H x 2.22"D

Enclosure Used: Hammond 1590CBK

WARNING!!!

Always unplug all CAT-5 cables prior to any welding on the vehicle. Failure to do so may result in severe damage to the unit.