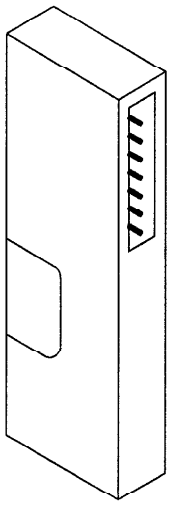
Solidyne

REMOTE COMMUNICATION MODULE

THE M896 REMOTE COMMUNICATION MODULE INTERFACES WITH SOLIDYNE'S Clipper LAN/XL CONTROLLERS TO PROVIDE 1200/2400/9600 BAUD OPERATION. THE M896 IS REMOVABLE ALLOWING EASY INSTALLATION AND CHANGEOUT.

- 1200/2400/9600 Baud Communications
- Removable
- Optically isoloates network communications from the Clipper LAN/XL



M896

SPECIFICATIONS

DIMENSIONS: 3.00" L x 0.38" W x 0.91" H

COMMUNICATION RATE: 1200/2400/9600 Baud

OPERATING TEMPERATURE: 0°F to 140°F

STORAGE TEMPERATURE: -40°F to 230°F

REQUIREMENTS

Two-wire (RS-232) and three-wire (RS-485) networks cannot be combined. All controllers on the network must have M832 (two-wire) or M896 (three-wire) communication modules. A Clipper LAN/XL with an M832 cannot communicate with a Clipper LAN/XL with an M896. Clipper LAN/XLs equipped with an M896 require EPROM version **QP-1232** or greater.

The M896 will only work with the latest revisions of the Clipper logic (door) and power supply boards.

XL Door Revision Level

The revision level of the logic board is located to the left of the ribbon cable connector. Figure 1 illustrates the location of the revision number on the logic board.

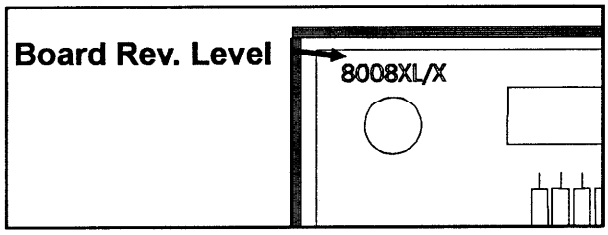


Fig. 1: Logic Board Revision Level

The revision level of the logic board is labeled as: **8008XL/X**, where "X" designates the revision level of the logic board. The M896 is compatible with Revisions 4 and 5 XL doors, **8008XL/4** and **8008XL/5**.

XL Power Supply Revision Level

The revision level of the power supply board is located to the left of the transformer. Figure 2 illustrates the location of the revision number on the power supply board.

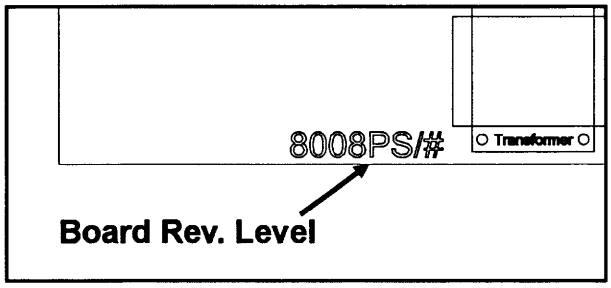


Fig. 2: Power Supply Revision Level

The revision level of the power supply board is labeled as: **8008PS/#** where "#" designates the revision level of the power supply board. The M896 is compatible with Revision 8 power supplies, **8008PS/8**.

INSTALLATION

The M896 is inserted directly into the Clipper LAN/XL.

Lift the Clipper LAN/XL door so the inside of the controller is exposed. Locate the connector on the power supply board designated **COMMUNICATION MODULE PLUG-IN**. Place the M896 onto the connector as shown in Figure 3.

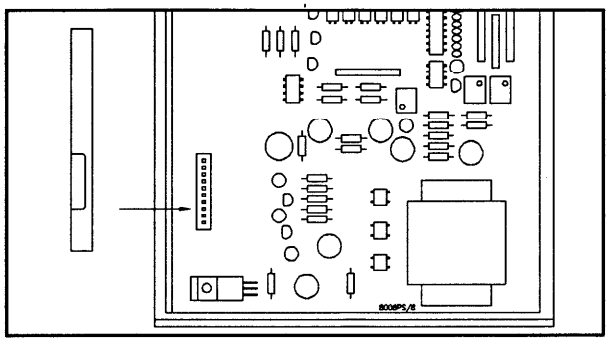


Fig. 3: M896 Placement

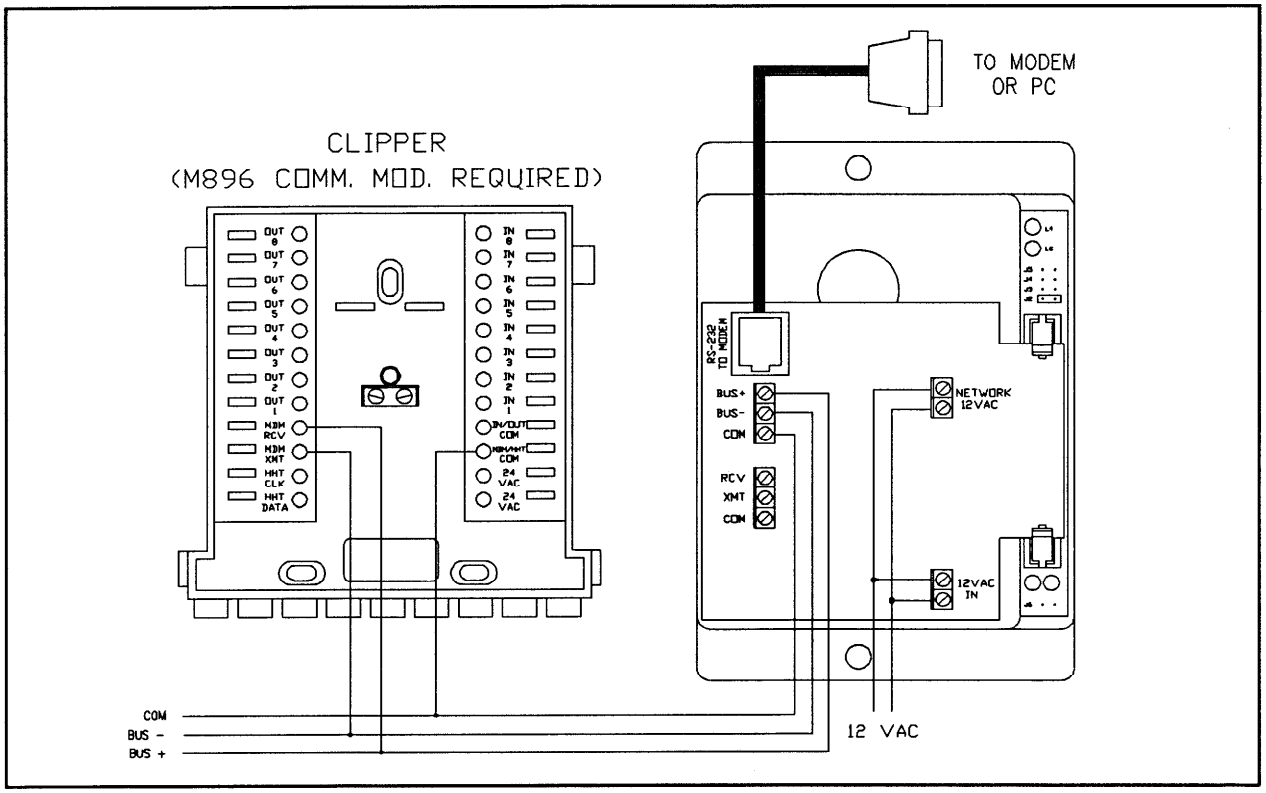


Fig. 4: Clipper LAN/XL to M201 Wiring Terminations

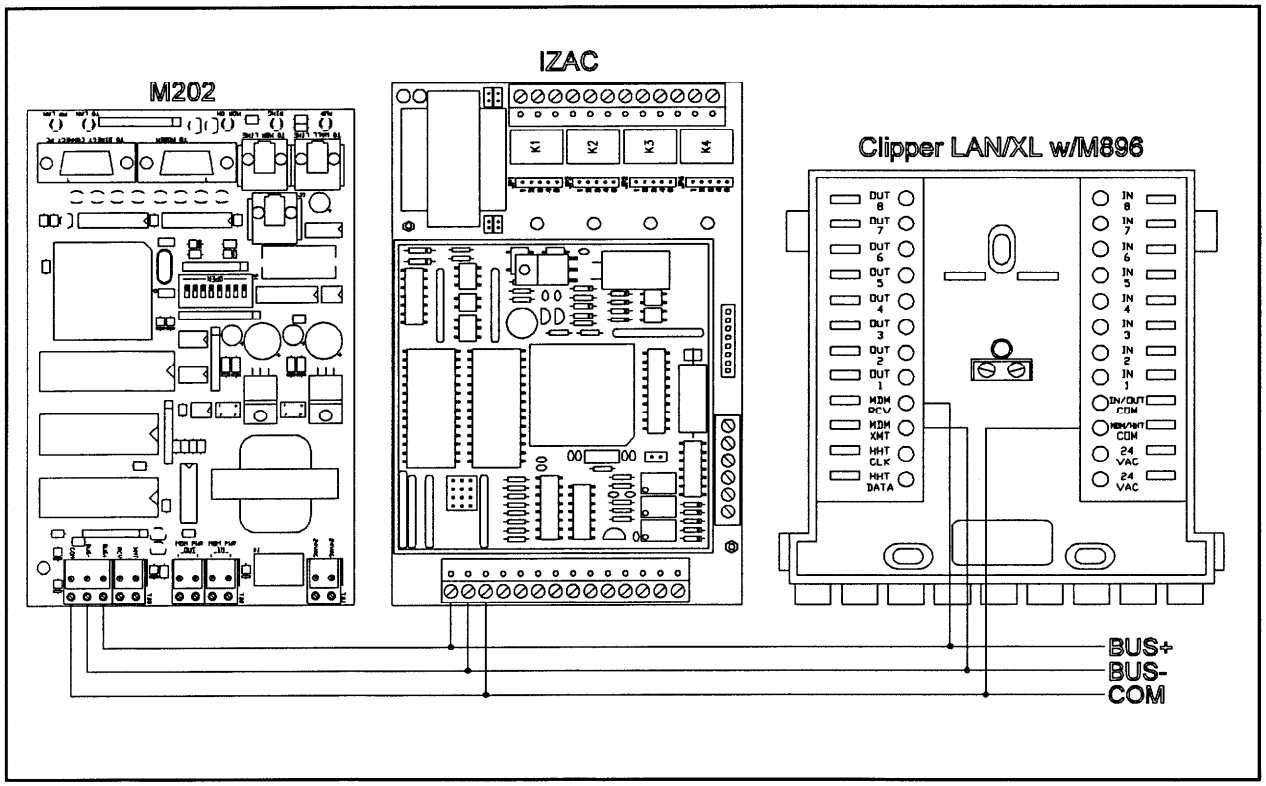


Fig. 5: Clipper LAN/XL to M202 Wiring Terminations

WIRING

An M201 or M202, master interface modules, are required for any direct or remote connection when using an M896.

Figure 4 illustrates the proper wiring terminations for a Clipper LAN/XL network using M896 communications modules with an M201.

Figure 5 illustrates the proper wiring terminations for a Clipper LAN/XL network using M896 communications modules with an M202.

The connections between the Clipper LAN/XL baseplate and the M201 or M202 are as follows:

MDM RCV to **BUS+**

MDM XMT to **BUS-**

MODEM\HHT COM to **COM**

OPERATION

The M896 is required for remote communications to the Clipper LAN/XL controller. Since the M896 allows the Clipper to communicate at 1200, 2400, and 9600 Baud, the Baud rate of the Clipper must be configured correctly to allow communications.

The Baud rate is set by using the Clipper keypad.

Press the **No** button until the Clipper displays:

Enter Miscellaneous Data?

Press the **Yes** button.

Press the **No** button until the Clipper displays:

Baud Rate?

Press the **Yes** button.

The Clipper will display the Baud rate it is presently set for. Press the +/- key until the desired Baud rate is displayed.

Press the **No** button.

Press and hold the **Clear** button for five (5) seconds. The display will now resume its normal operation.

CHECK OUT

If the M896 has been installed according to the directions given here and the Clipper LAN/XL will not communicate with the PDC832(GH) software, follow the check out procedure below.

1) Re-verify all wiring terminations according to Figures 4 and 5. Make sure all connections are tight.

2) Check the node number and baud rate of the Clipper LAN/XL. If the baud rate of the Clipper LAN/XL is configured different than the baud rate of the PDC832(GH), the Clipper LAN/XL will not communicate. Refer to the PDC832(GH) manual for details on how to cofigure the software baud rate.

3) Check the configuration of either the M201 or M202, depending on which is being used. If the M201 or M202 are not configured for the same baud rate as the Clipper LAN/XL, the Clipper LAN/XL will not communicate. Refer to the individual instruction sheets of the M201 and M202 for the proper configurations.

4) Call Solidyne's Technical Support Department.