

REPLACEMENT KEYPAD-READ INSTRUCTIONS ON BOTH SIDES

Please note: When the replacement keypad is shipped the jumper pins on the board of the keypad are preset for MCS-MAGNUM Revision 7 and higher.



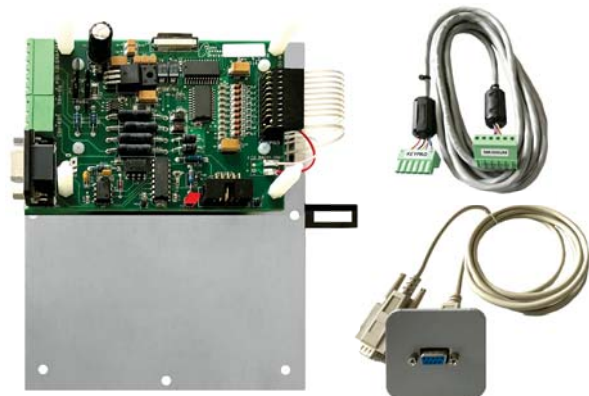
If you have a MCS-MAGNUM lower than revision 7 (figure 1) you will need to change the location of two jumpers located on the replacement keypad board as shown in figure 2.

Follow the steps below to use your new replacement keypad.

1. Locate the MCS-MAGNUM version number board.
2. If you have a MAGNUM revision 7 or higher the replacement keypad setup is correct from the factory. You can proceed to replace your old keypad. **Follow the instructions on the back of this sheet.**
3. As stated above, if your Magnum revision number is lower than 'REV 7' proceed to step #4.
4. Turn the replacement keypad over to the board side.
5. Remove the lexan cover, locate the four white plastic nuts, remove these and the lexan cover can be removed by lifting up on all sides.
6. There are two jumper pins, as shown in figure 2, that need to be moved as shown. The pins are factory set for +12VDC, they must be changed to +5VDC.
7. Move both jumpers to the bottom +5VDC pins for MAGNUM'S older than REV '7'.
8. Replace the lexan cover, and you can now install your replacement keypad.
9. Your replacement keypad comes with an RS232 port and an MCS-RS232 EXTENDER which can be mounted to the front of your enclosure so that the enclosure door can remain closed when using the RS232 port.

If you do not require the MCS-RS232 EXTENDER, set this part aside.

KIT CONTAINS
MAG-KEYPAD-OEM-232
MAG-KEYPAD CABLE
MCS-RS232-EXTENDER



PROPER WIRING FOR KEYPAD ON
REVERSE SIDE OF THIS SHEET



located on the

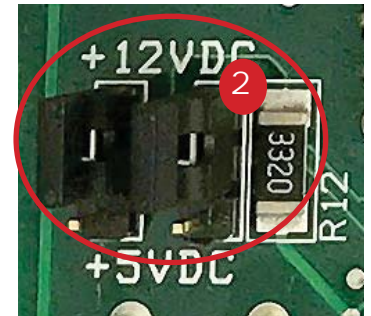
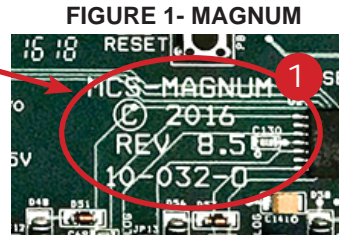


FIGURE 2
Keypad replacement
(Pins factory set for Magnum
Revision 7 or higher, +12 VDC)



CAUTION!

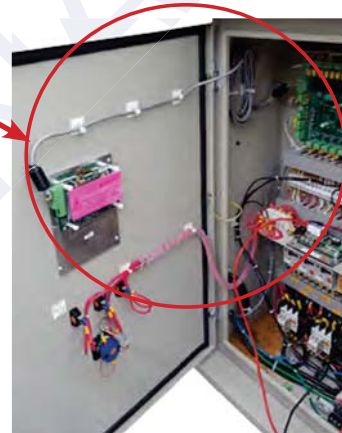
Remove all power before making any connections. Failure to do so might result in personal injury and/or equipment damage.

ROUTING THE CABLE FOR MCS-MAGNUM KEYPAD

MCS-MAGNUM Keypad/LCD cable should run through your enclosure as far away from any power cables as possible. Follow the steps below to avoid any interference.

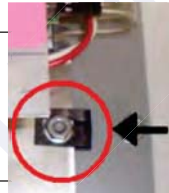
1. Run your Keypad wiring from the MCS-MAGNUM at 90 degree angles from high amp cabling coming from relays, etc. **AVOID RUNNING PARALLEL NEXT TO THESE TYPE CABLES.**
2. Keep high amp wiring away from the Keypad cable if you can, **see photo below:**

OEM Enclosure being rewired in the field-
Photo shows how the Magnum Keypad/LCD cable is being run away from high amp wiring.



IT IS IMPORTANT NOT TO HAVE ANY HIGH AMP WIRING RUNNING NEAR THE KEYPAD CABLE.

When mounting the MAG-KEYPAD-OEM-232, fold over the black ground tab on the right side of the Keypad, and place the washer over the black tab. Fasten the nut on the Keypad.



3. Keep your Keypad wiring as short as possible in the enclosure. Avoid bundling up of the cable. If necessary cut and shorten cable. Make sure to keep the same wiring and Ferrite.
4. **MAKE SURE THERE IS A FERRITE ON EACH END OF YOUR KEYPAD WIRING TO SUPPRESS NOISE INTERFERENCE.**

Small Wire Tie added to avoid Ferrite from moving down the cable



Ferrite added onto each end of cabling from MCS-MAGNUM to MCS-KEYPAD as shown in photo