MAG-KEYPAD ANNOUNCEMENT

5580 Enterprise Parkway. Fort Myers FL 33905

FOR IMMEDIATE RELEASE *08-03-2021*

MAG-KEYPAD - Rev. 9.3 to 11.3
Electromagnetic interference (EMI)

is the noise caused by current in other, nearby conductors or cables

MAG-KEYPADS sold by Micro Control Systems like all Electronic equipment is subject to noise interference from cables run in an industrial control panel.

MCS has been working to improve the MAG-KEYPAD resistance to EMI.

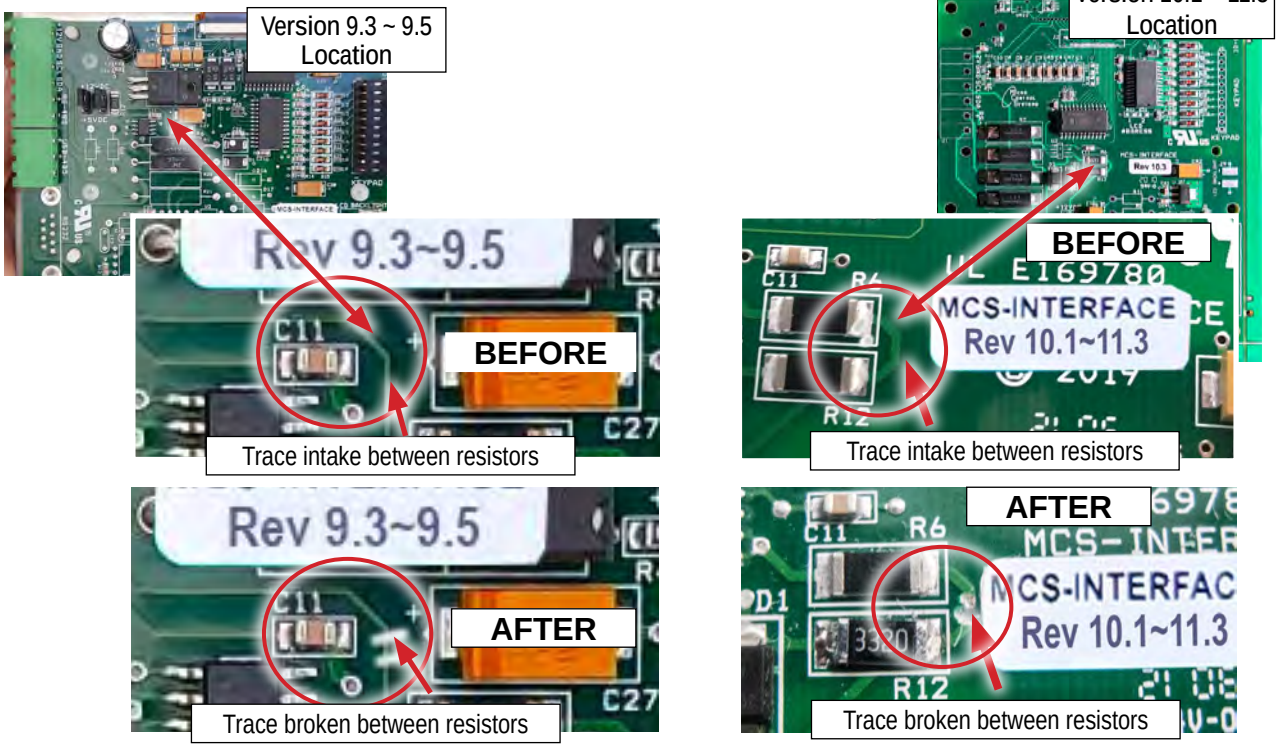
Some field sites have seen the LCD blanking out with the MCS-MAGNUM still functioning and controlling the unit correctly.

MAG-KEYPADS, version 11.4 will ship with modifications made to further eliminate the interference caused by EMI.

The update for older MAG-KEYPADS, versions 9.3 to version 11.3 can be modified in the field by altering the trace on the MAG-KEYPAD Interface board. Below are photos showing a modified MAG-KEYPAD interface board with the trace removed between two resistors R6 and R12 which will stop the LCD from blanking out..

A short video is available to show how this modification is made to the MAG-KEYPAD interface board. Download the video at:

https://mcscontrols.com/announcementVideos.html



See Additional information on the back concerning grounding and wiring the MAG-KEYPAD in all panels.

MAG-KEYPAD INSTALLATION

CAUTION!

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

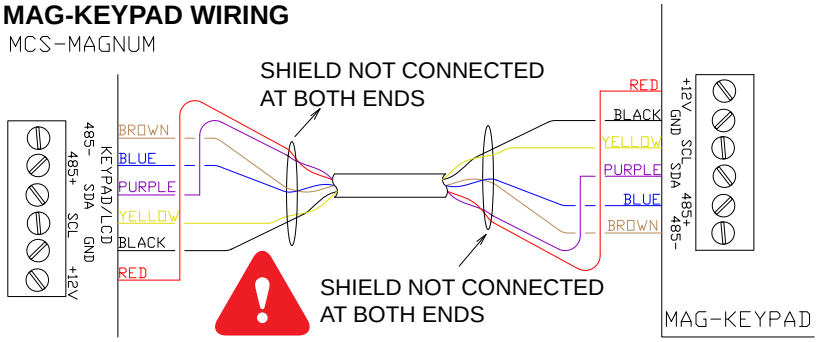
Follow the instruction below for running the cable between the MAG-KEYPAD and the MCS-MAGNUM.

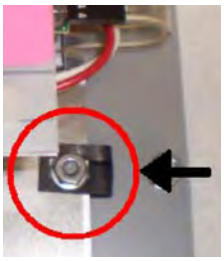
ROUTING THE CABLE FOR MAG-KEYPAD

The MAG-Keypad cable should run through the enclosure as far away from any high voltage 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 voltage cabling coming from relays, etc. **AVOID RUNNING PARALLEL NEXT TO HIGH VOLTAGE CABLES. SEE PHOTO BELOW**
2. Keep your MAG-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 Ferrites.

MAG-KEYPAD WIRING

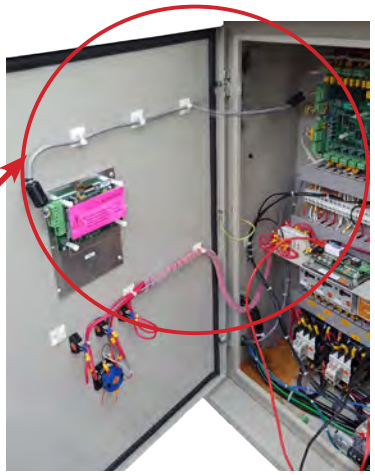




When mounting the MAG-KEYPAD, fold over the black ground tab on the right side of the Keypad, and place the washer over the black tab. Fasten the nut on the Keypad for grounding.

OEM Enclosure being rewired in the field.
Photo shows how the MAG-KEYPAD cable is being run away from high voltage wiring.

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



3. **MAKE SURE THERE IS A FERRITE ON <u>EACH END OF YOUR KEYPAD WIRING</u> TO SUPPRESS NOISE INTERFERENCE.**

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

5580 Enterprise Pkwy. Fort Myers, FL 33905 • Office: (239) 694-0089 • Fax: (239) 694-0031
www.mcscontrols.com