

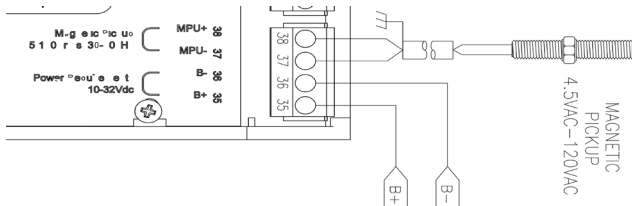
How to Replace MX5 with MX5-R2

Please observe the wire changes below when exchanging the MX5, MX5-A or MX5-D with the MX5-R2.

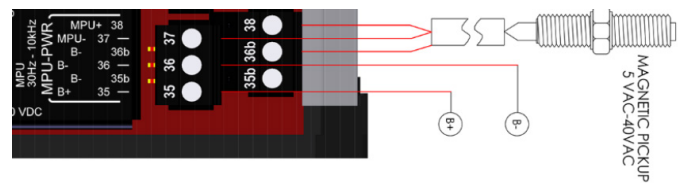
Wiring Changes

- Carefully unplug the terminal block connectors from the MX5 board and remove it from the DIN rail. Leave the wires connected to the old terminal plugs for now.
- Mount the MX5-R2 on the DIN rail.
- Carefully remove each wire from the MX5 connector and attach it to the MX5-R2 connector, matching terminal numbers from the old to the new terminal. The numbers match up to the original MX5 pin I/O function.

NOTE: The MX5 terminal blocks are not interchangeable and will not be used with the MX5-R2 board.



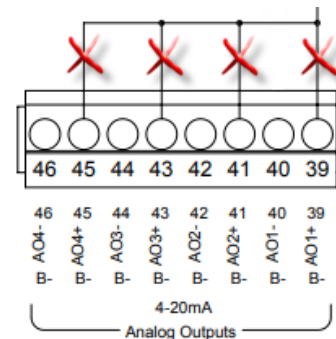
Example of MX5 Power and Magnetic Pickup Wiring



Example of MX5-R2 Power and Magnetic Pickup Wiring

- Refer to Step 5 for MX5-A wiring variation on analog outputs. Refer to Step 6 for MX5-D wiring variation on digital outputs.

- MX5-A ONLY:** The analog output wires that were on terminals 39, 41, 43 and 45 should be cut and taped off and left unused with the MX5-R2. (Often these were jumped across from 39 to 45, so the jumps can be removed.) Wires 40, 42, 44 and 46 connect to the matching numbers on the MX5-R2.



MX5-A wires 39, 41, 43, 45 are cut and not used

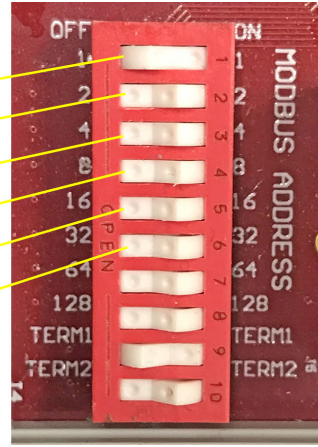
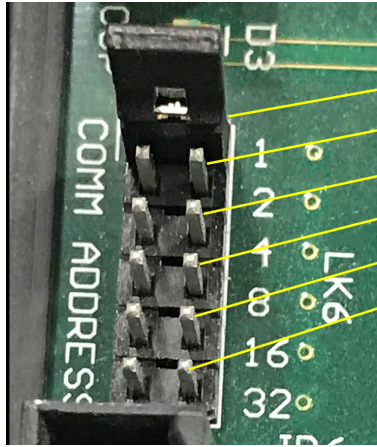
- MX5-D ONLY:** Connect the digital output wires that were on terminals 39 thru 46 to the MX5-R2 terminal numbers shown in chart.

NOTE: Contact FW Murphy Application Sales to obtain new wire labels and schematic drawings for your panel if desired.

Old MX5-D Terminal	New MX5-R2 Terminal
39	72
40	73
41	74
42	75
43	76
44	77
45	78
46	79

7. Match the LK6 Comm Address jumper positions on MX5 to the Modbus Address position 1 thru 6 on the MX5-R2. If a jumper is installed, position the switch to the Closed position (toward the Modbus Address) text.

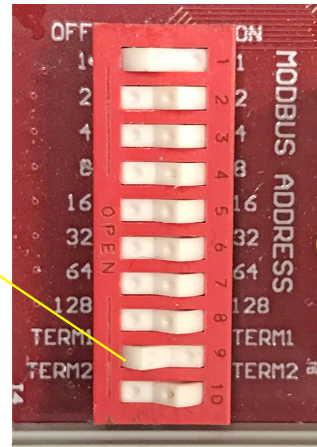
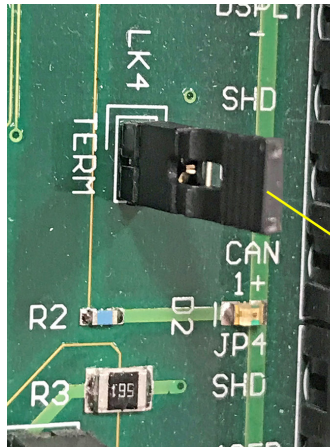
MX5: LK6 jumper is shown installed for position 1 and Open for positions 2-6.



MX5-R2: Set position 1 to Close with rocker down toward the right side. Set position 2-6 to Open with the rocker down on the left side.

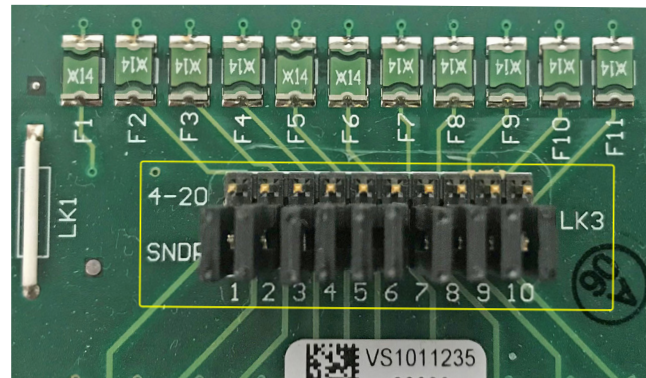
8. The LK4 Term is located near terminal 65 under the cover of MX5. Match its jumper position to the Modbus Address position 9 on the MX5-R2. If jumper was installed to LK4, set position 9 to the Closed position. If its without a jumper, set position 9 to the Open position.

MX5: LK4 shows a jumper is installed.



MX5-R2: Set position 9 to Close with rocker down toward the right side.

9. The LK3 analog input type selection on the MX5, located under the cover, is not on the MX5-R2 board. These selections are now located in the software of the MX5-R2. They are preset by default for all analog inputs as 4-20mA mode of operation. If your MX5 application does not have all 4-20mA jumpers installed as shown in illustration, contact FW Murphy Technical support so the application software can be adjusted.



MX5: LK3 jumpers in 4-20mA position. If sender or 0-5VDC is needed, contact FW Murphy.

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