

Program Control Instructions

Master Control Set (MCS) DL330/DL340 Only

Master Control Reset (MCR) DL330/DL340 only

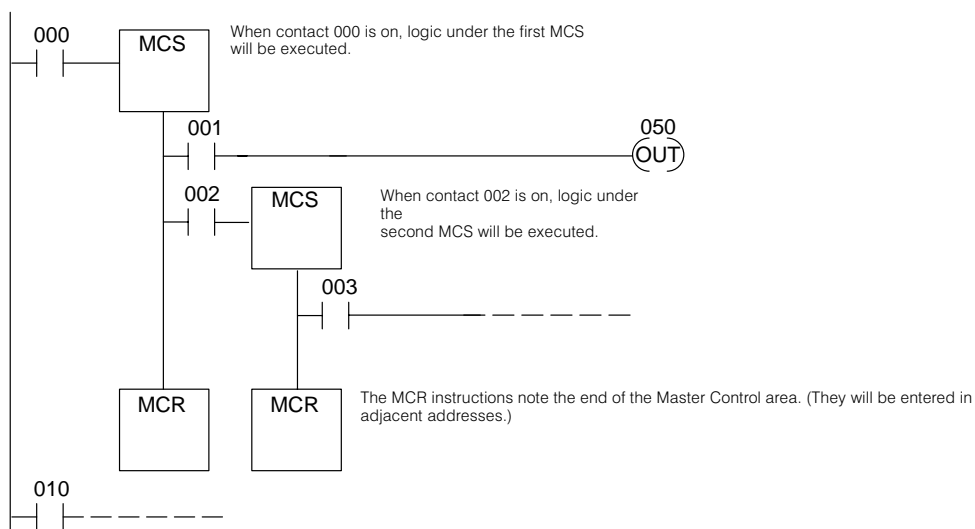
Understanding Master Control Relays

The Master Control Set and Master Control Reset instructions are used to provide an additional left power rail which is controllable by an input contact. This is sometimes known as a sub power rail. Any number of rungs of ladder logic can be disabled using these instructions.

—(MCS)

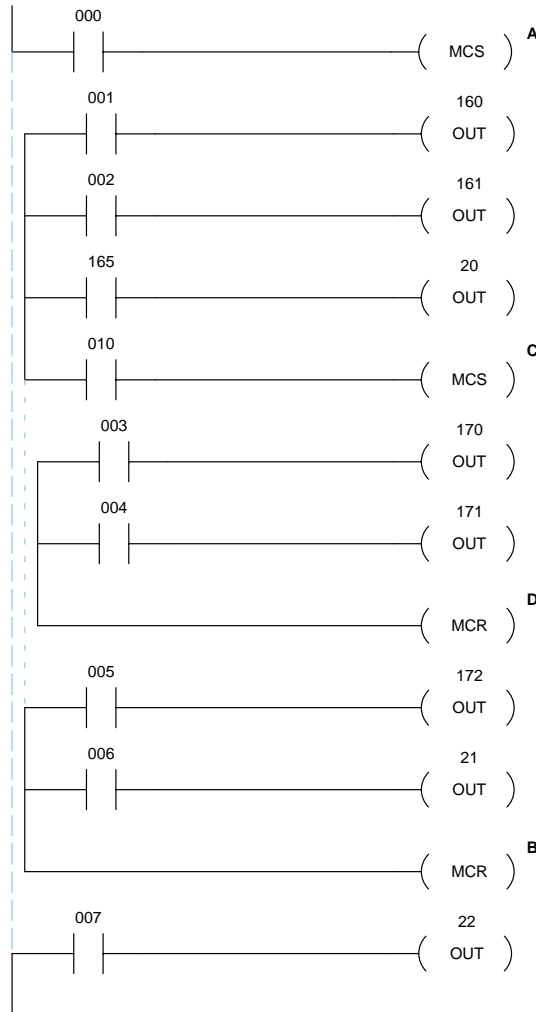
—(MCR)

The Master Control Set (MCS) and Master Control Reset (MCR) instructions allow you to quickly enable (or disable) sections of the RLL program. This provides program control flexibility. The following example shows how the MCS and MCR instructions operate by creating a sub power rail for control logic.



MCS/MCR Example In the following MCS/MCR example logic between the first MCS (A) and the last MCR (B) will function only if input 000 is on. The logic between the second MCS (C) and the next to last MCR (D) will function only if input 010 is on. The last rung is not controlled by either of the MCS coils.

DirectSOFT Display



Handheld Programmer Keystrokes

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STR SHF 0 ENT
MCS ENT
STR SHF 1 ENT
OUT SHF 1 6 0 ENT
STR SHF 2 ENT
OUT SHF 1 6 1 ENT
STR SHF 1 6 5 ENT
OUT SHF 2 0 ENT
STR SHF 1 0 ENT
MCS ENT
STR SHF 3 ENT
OUT SHF 1 7 0 ENT
STR SHF 4 ENT
OUT SHF 1 7 1 ENT
MCR ENT
STR SHF 5 ENT
OUT SHF 1 7 2 ENT
STR SHF 6 ENT
OUT SHF 2 1 ENT
MCR ENT
STR SHF 7 ENT
OUT SHF 2 2 ENT

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NOTE: When programming the MCS instruction, do not put any parallel coils in the rung with the MCS.