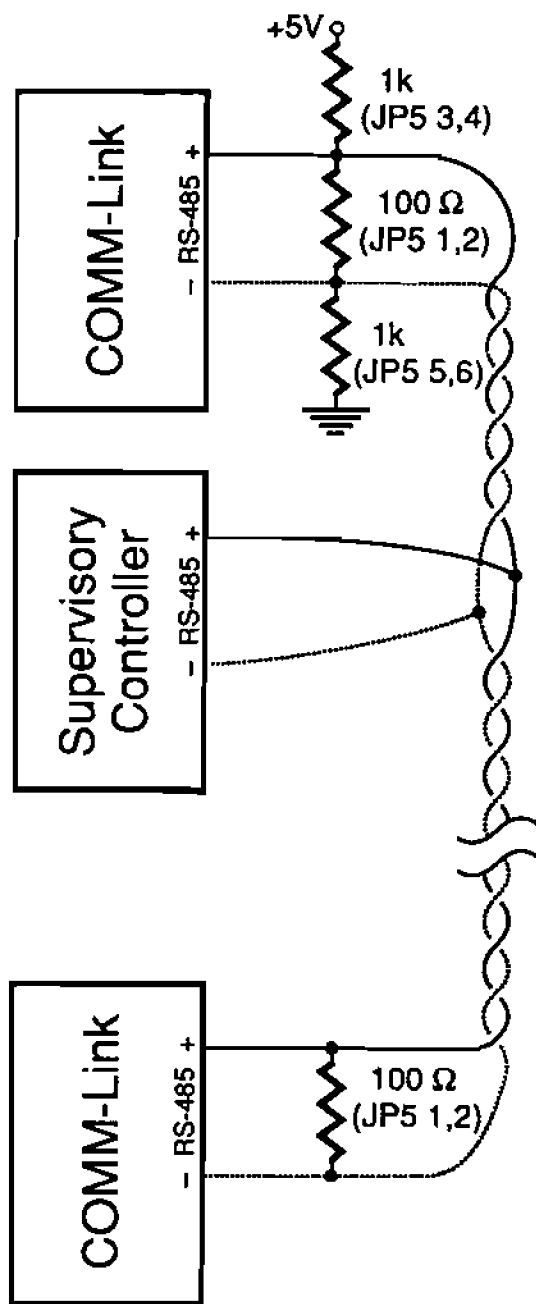


Update

HCS II Network Termination Guidelines



In order for your HCS II network to operate as error-free as possible, the network cable must be properly terminated. The current documentation makes some references to termination, but needs clarifying. (If your system consists of only a Supervisory Controller and no Link modules, you don't have to worry about the network or termination.)

The network cable must be terminated in its characteristic impedance at each end. You should install the 100-Ω terminator resistor on the two modules at the ends of the cable. The resistor is installed on a COMM-Link board by inserting a jumper on JP5 pins 1 & 2. It is installed on the SC by inserting a jumper on JP1.

There should never be more than two 100-Ω resistors installed on the network!

In order to ensure the network floats to an inactive state when not being driven by any network module, a single pull-up resistor and a single pull-down resistor must be installed on the network. These resistors may be found on any PL-Link, IR-Link, LCD-Link, or DIO-Link module and are installed by inserting jumpers on JP5 pins 3 & 4 and 5 & 6. Early COMM-Link boards were shipped with 100k resistors installed in R7 and R8. These should be changed to 1k resistors. All current COMM-Link boards are shipped with 1k resistors.

There should never be more than one pull-up resistor and one pull-down resistor installed on the network!

Finally, as stressed in the manuals, twisted-pair cable should always be used for network connections.

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