

Grounding the Programmer

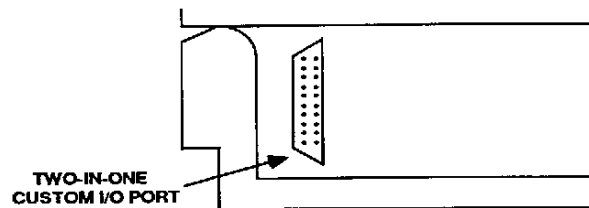
The 212 Multi Programmer is shipped with a three-wire power cable. This cable connects the chassis of the programmer to earth ground when connected to a properly grounded three-wire ac receptacle.

WARNING

Continuity of the grounding circuit is vital for the safe operation of the unit. Never operate this equipment with the grounding conductor disconnected.

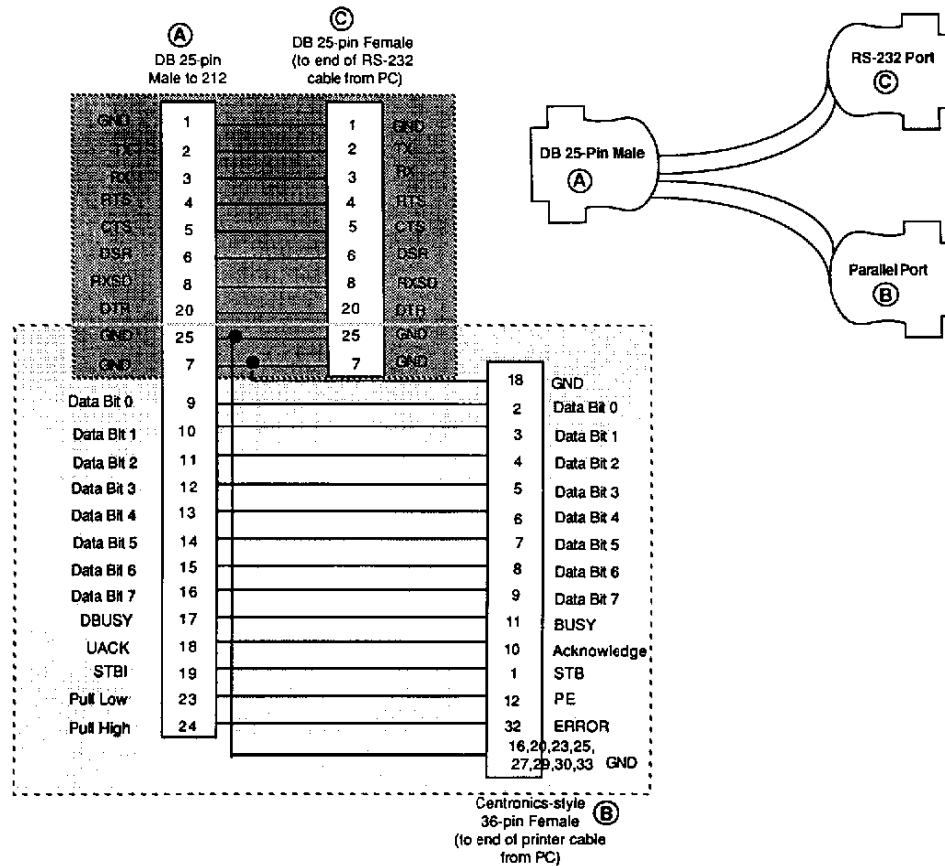
I/O PORT CONNECTIONS

The 212 Multi Programmer is equipped with a two-in-one custom I/O port which is located on the back panel of the programmer (see illustration). The port is a combination RS-232C and parallel port selectable from the front panel menu. The cable connections required for the RS-232 or parallel connector for each mode are shown in the illustration below.



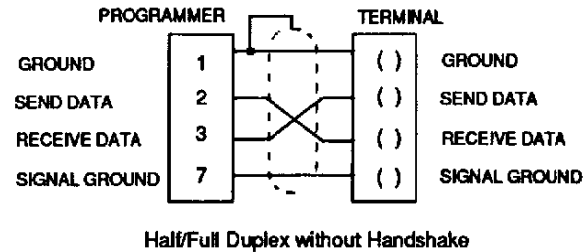
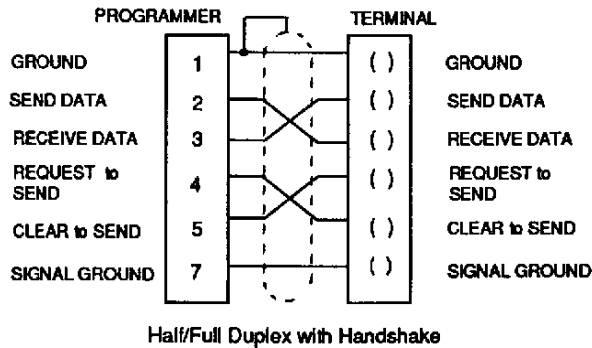
NOTE

An optional "y-style" adapter cable is available from Data I/O for use with a Centronix parallel cable which will allow the user to connect the 212 using a standard parallel cable. Additionally, the "y-style" cable allows the customer the convenience of having the RS-232 and parallel cables connected simultaneously. The pinouts of the adapter cable are shown below:



RS-232 Port Cable Connections

The RS-232 compatible I/O port can be linked to a terminal, computer, or other development systems in either a handshake or non-handshake mode. The cable connections required for the RS-232 for each mode are shown in the following illustrations:

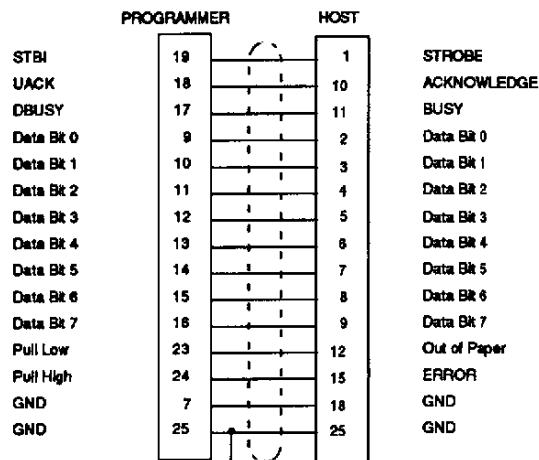


NOTES

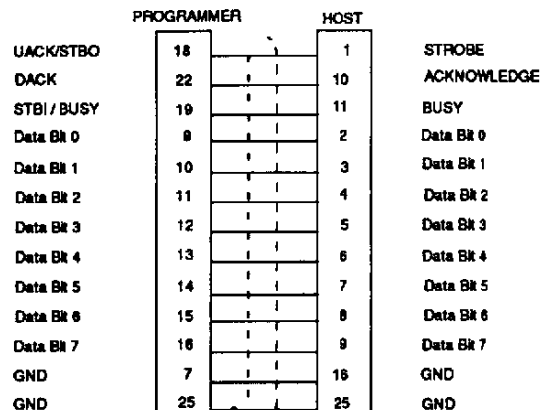
1. All signals are named with respect to the originating unit.
2. All undesignated pins are to be left open.
3. For applications that do not require handshaking, the programmer's "clear to send" line is pulled up internally.
4. Host system's pin numbers may differ.

Parallel Port Cable Connections

The parallel port can be linked to a system capable of transmitting only or transmitting and receiving data through a parallel port. The cable connections required for each mode are shown in the following illustrations:



Connections for Parallel Port
for Downloading to 212 from Host



Connections for Parallel Port
for Uploading from 212 to Host

Notes

1. All undesignated pins are to be left open.
2. Host system pin numbers may differ.
3. Some host systems may not be capable of receiving parallel data.
4. Separate cables are required for uploading and downloading parallel data.