

Allen-Bradley DF1 Driver

These installation instructions only cover the connection of the Allen-Bradley DF1 Driver to the Allen-Bradley system. For hardware installation of the Modular Equipment Controller, see document number 565-570. For hardware installation of the Power Open Processor, see document number 565-571.

Product Description

The Allen-Bradley DF1 Driver enables communication between the APOGEE® Automation System and the Allen-Bradley system.

Product Numbers

986-85391A	Allen-Bradley DF1 Driver, Open Processor with RS-485 ALN
986-85391B	Allen-Bradley DF1 Driver, Open Processor with Ethernet ALN
986-85391C	Allen-Bradley DF1 Driver, MEC with RS-485 ALN, 8DI, 8DO, 8AI, 8AO, point expansion support, HOA-ready
986-85391D	Allen-Bradley DF1 Driver, MEC with RS-485 ALN, 8DI, 8DO, 8AI, 8AO, point expansion support, with HOA
986-85391E	Allen-Bradley DF1 Driver, MEC with RS-485 ALN, 8DI, 8DO, 8AI, 8AO, point expansion support, modem, HOA-ready
986-85391F	Allen-Bradley DF1 Driver, MEC with RS-485 ALN, 8DI, 8DO, 8AI, 8AO, point expansion support, modem, with HOA

986-85391G	Allen-Bradley DF1 Driver, MEC with Ethernet ALN, 8DI, 8DO, 8AI, 8AO, point expansion support, HOA-ready
986-85391H	Allen-Bradley DF1 Driver, MEC with Ethernet ALN, 8DI, 8DO, 8AI, 8AO, point expansion support, with HOA
986-85391L	Allen-Bradley DF1 Driver, MEC with BACnet/IP ALN, 8DI, 8DO, 8AI, 8AO, point expansion support, HOA-ready
986-85391M	Allen-Bradley DF1 Driver, MEC with BACnet/IP ALN, 8DI, 8DO, 8AI, 8AO, point expansion support, with HOA
986-85391N	Allen-Bradley DF1 Driver, Open Processor with BACnet/IP ALN

Accessories

538-670	Trunk Interface II, 115V
538-675	Trunk Interface II, 230V
538-755	Trunk/RS-422 Interface, 115V
538-760	Trunk/RS-422 Interface, 230V

Warning/Caution Notations



WARNING:

Personal injury/loss of life may occur if you do not follow the procedures as specified.



CAUTION:

Equipment damage or loss of data may occur if you do not follow the procedures as specified.

Expected Installation Times

7 minutes.

Required Tools and Materials

- Flat-blade screwdriver (1/8-inch blade width).
- Wire strippers.
- Cabling and connectors. See the *Connecting the Allen-Bradley DF1 Driver to the Allen-Bradley System* section.



CAUTION:

Always wear an electro-static discharge wrist strap and discharge accumulated static before touching field panel components.

Prerequisites

- Driver hardware is installed according to its respective installation instructions.
- FLN Termination blocks installed, if any.
- One 115V or 230V receptacle (depending on device) to power the Trunk Interface II.
- One AC power receptacle for each communication interface adapter or device.

Depending on the type of installation, other prerequisites may have to be completed.

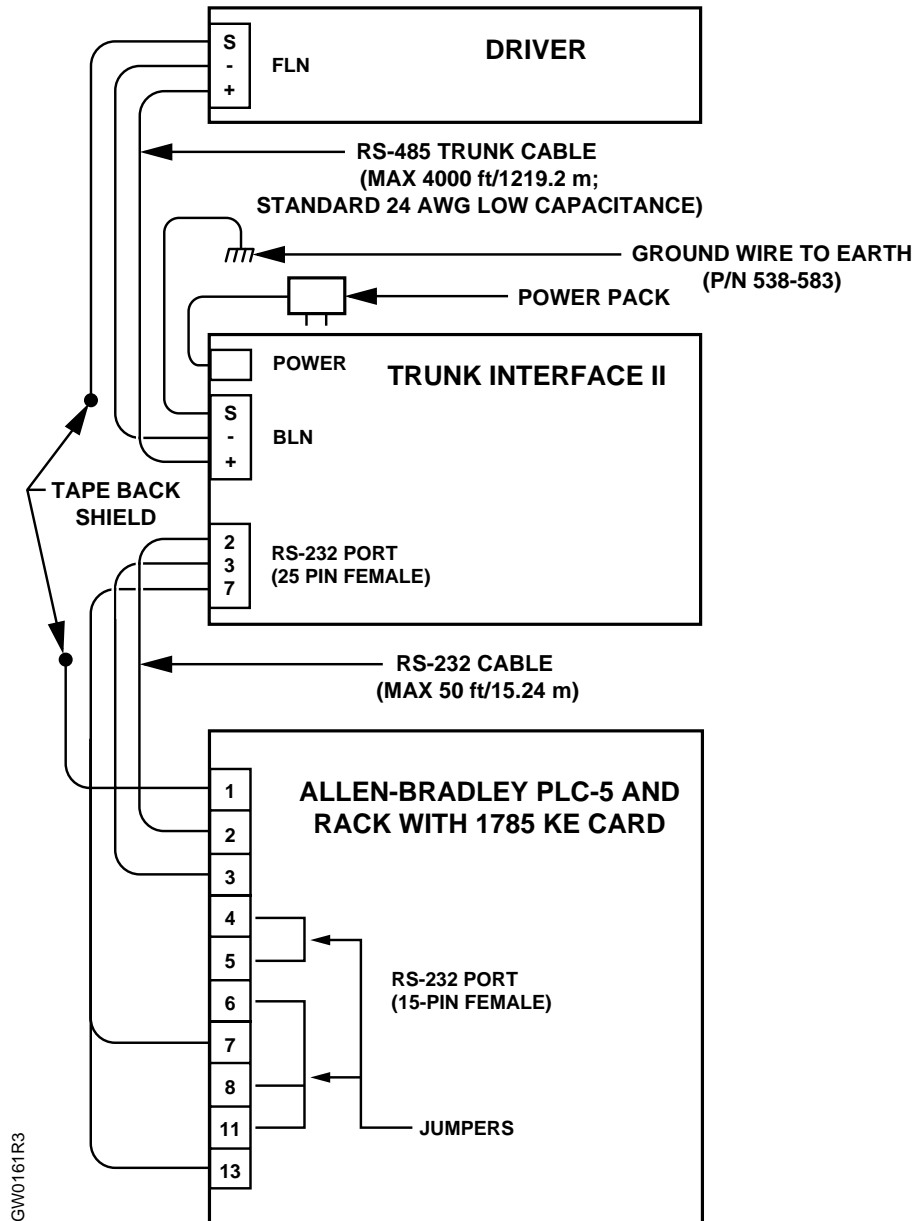
Connecting the Allen-Bradley DF1 Driver to the Allen-Bradley System

There are eight wiring options for configuring the Allen-Bradley DF1 Driver to the Allen-Bradley System:

- PLC-5 with a 1785 KE card via a Trunk Interface II (Figure 1 and Figure 2)
- PLC-5 (or SLC 5/04) using a 1770 KF2 module via a Trunk Interface II (Figure 3 and Figure 4)
- PLC-5 (or SLC 5/04) using a 1770 KF2 module via a Trunk/RS-422 Interface (Figure 5 and Figure 6)
- SLC 5/03 via a Trunk Interface II (Figure 7)
- SLC 5/04 via a Trunk Interface II (Figure 8)
- SLC 5/05 via a Trunk Interface II (Figure 9)
- CompactLogix or ControlLogix via a Trunk Interface II (Figure 10)

Follow these steps to connect the Allen-Bradley DF1 Driver to the Allen-Bradley system:

1. Make cables per diagram in Figure 1 and Figure 2, Figure 3 and Figure 4, Figure 5 and Figure 6, Figure 7, Figure 8, Figure 9, or Figure 10.
2. Install the Trunk Interface per diagram in Figure 1 and Figure 2, Figure 3 and Figure 4, Figure 5 and Figure 6, Figure 7, Figure 8, Figure 9, or Figure 10.
3. Connect cables per diagram in Figure 1 and Figure 2, Figure 3 and Figure 4, Figure 5 and Figure 6, Figure 7, Figure 8, Figure 9, or Figure 10.
4. Plug in power supply for the Trunk Interface per diagram in Figure 1 and Figure 2, Figure 3 and Figure 4, Figure 5 and Figure 6, Figure 7, Figure 8, Figure 9, or Figure 10.



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Figure 1. Connecting the Allen-Bradley DF1 Driver, Trunk Interface II, and PLC-5 with 1785 KE Card.

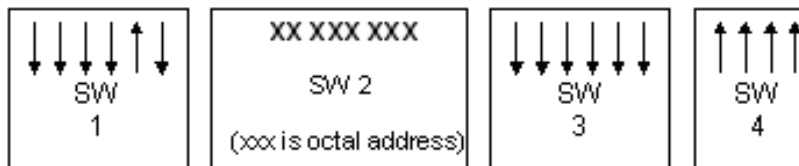


Figure 2. 1785 KE Card Dip Switch Settings for Trunk Interface II.

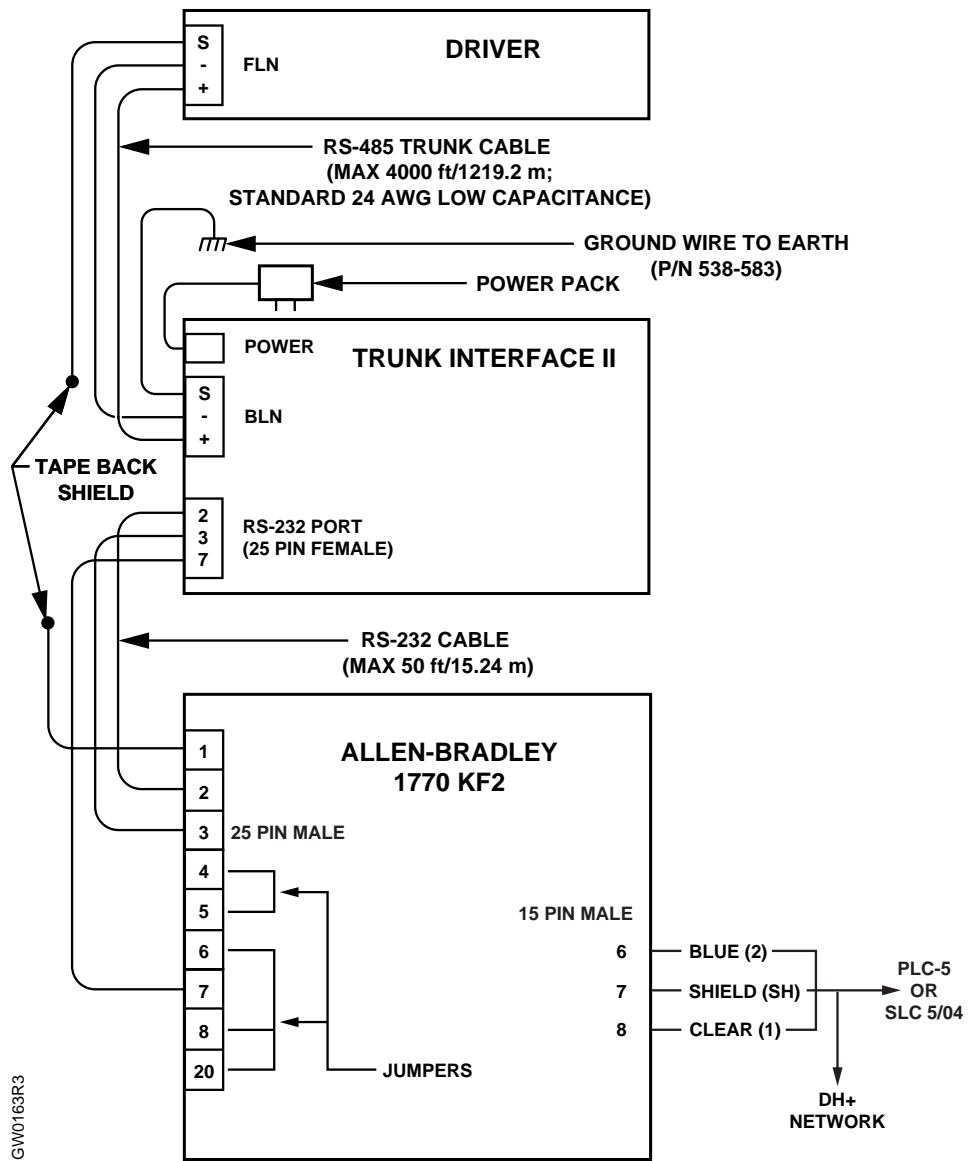


Figure 3. Connecting the Allen-Bradley DF1 Driver, Trunk Interface II, 1770 KF2 Module, and PLC-5 or SLC 5/04.

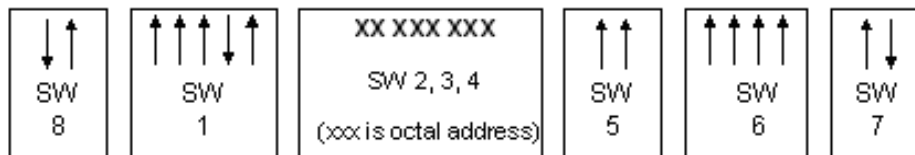


Figure 4. 1770 KF2 Module Dip Switch Settings for Trunk Interface II.

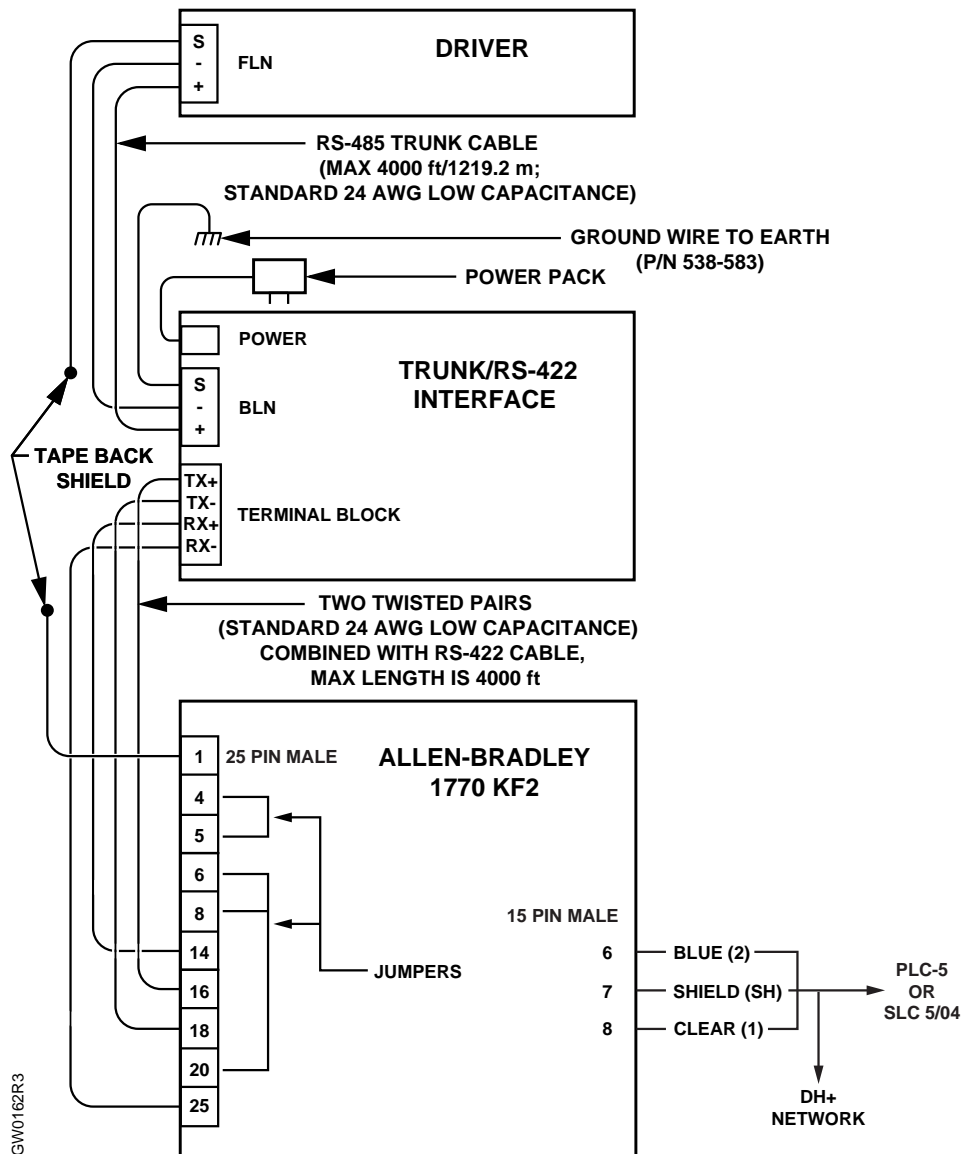


Figure 5. Connecting the Allen-Bradley DF1 Driver, Trunk/RS-422 Interface, 1770 KF2 Card, and PLC-5 or SLC5/04.

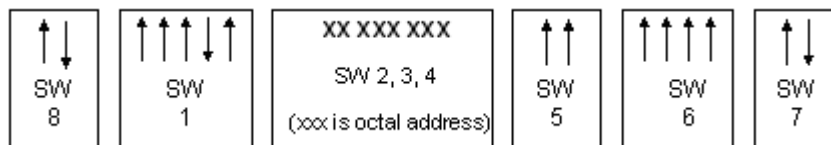


Figure 6. 1770 KF2 Module Dip Switch Settings for Trunk/RS-422 Interface.

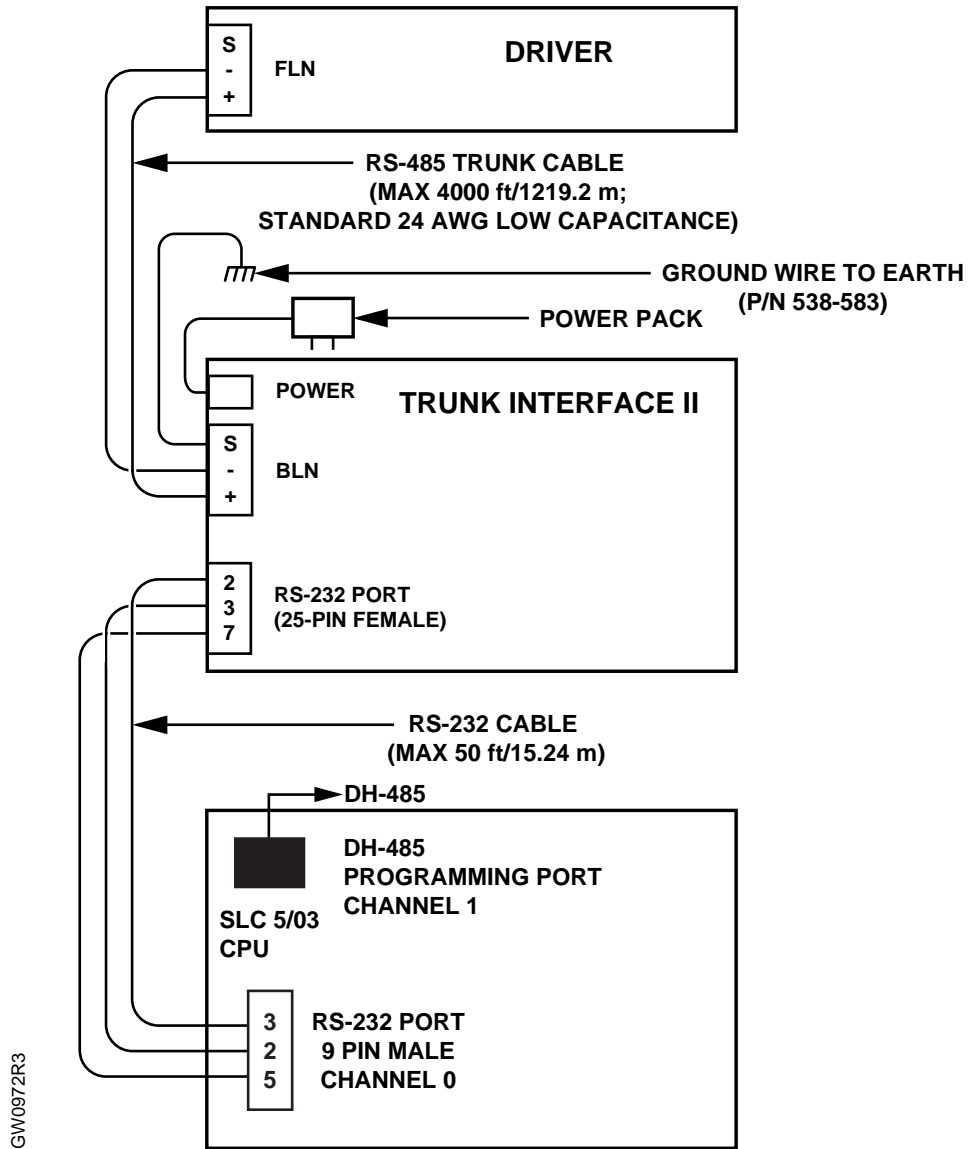


Figure 7. Connecting the Allen-Bradley DF1 Driver, Trunk Interface II, and SLC5/03.

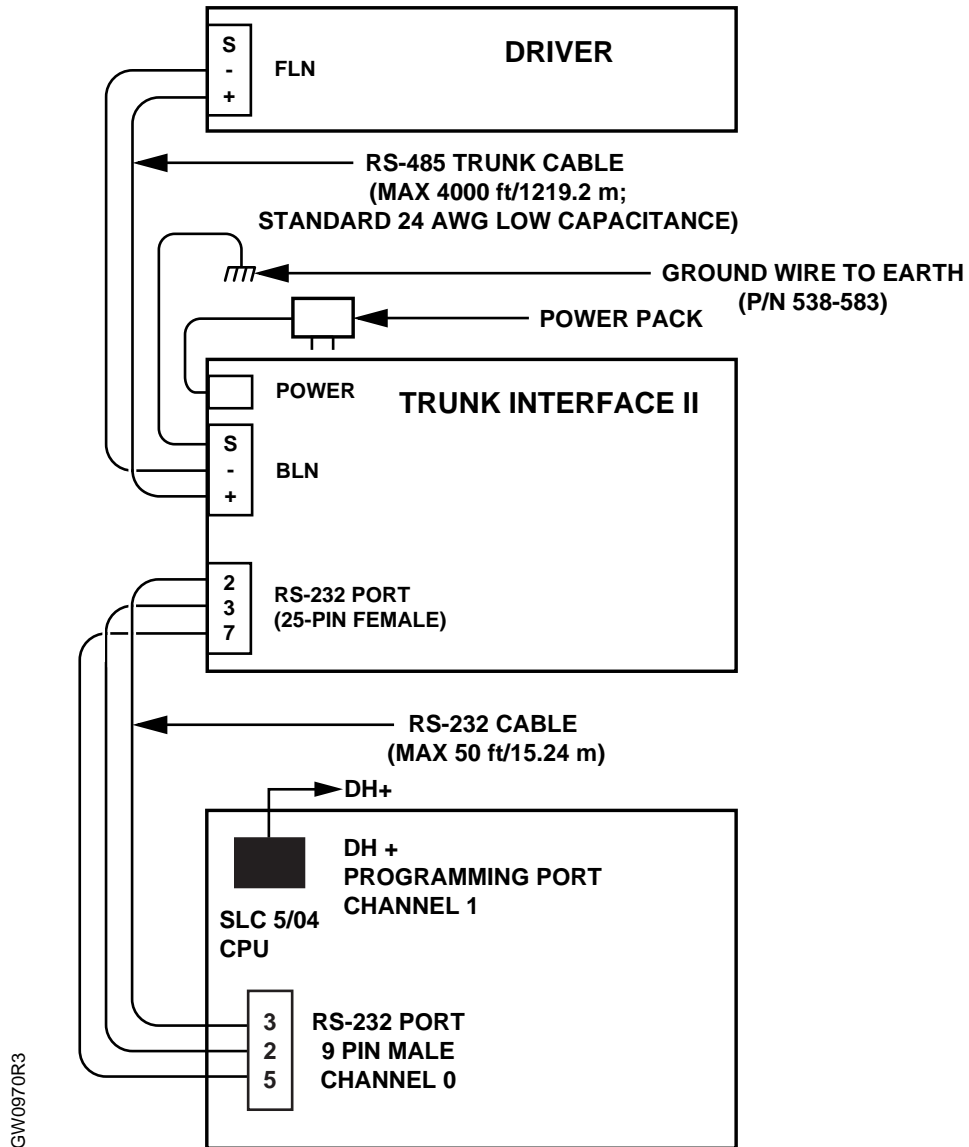


Figure 8. Connecting the Allen-Bradley DF1 Driver, Trunk Interface II, and SLC5/04.

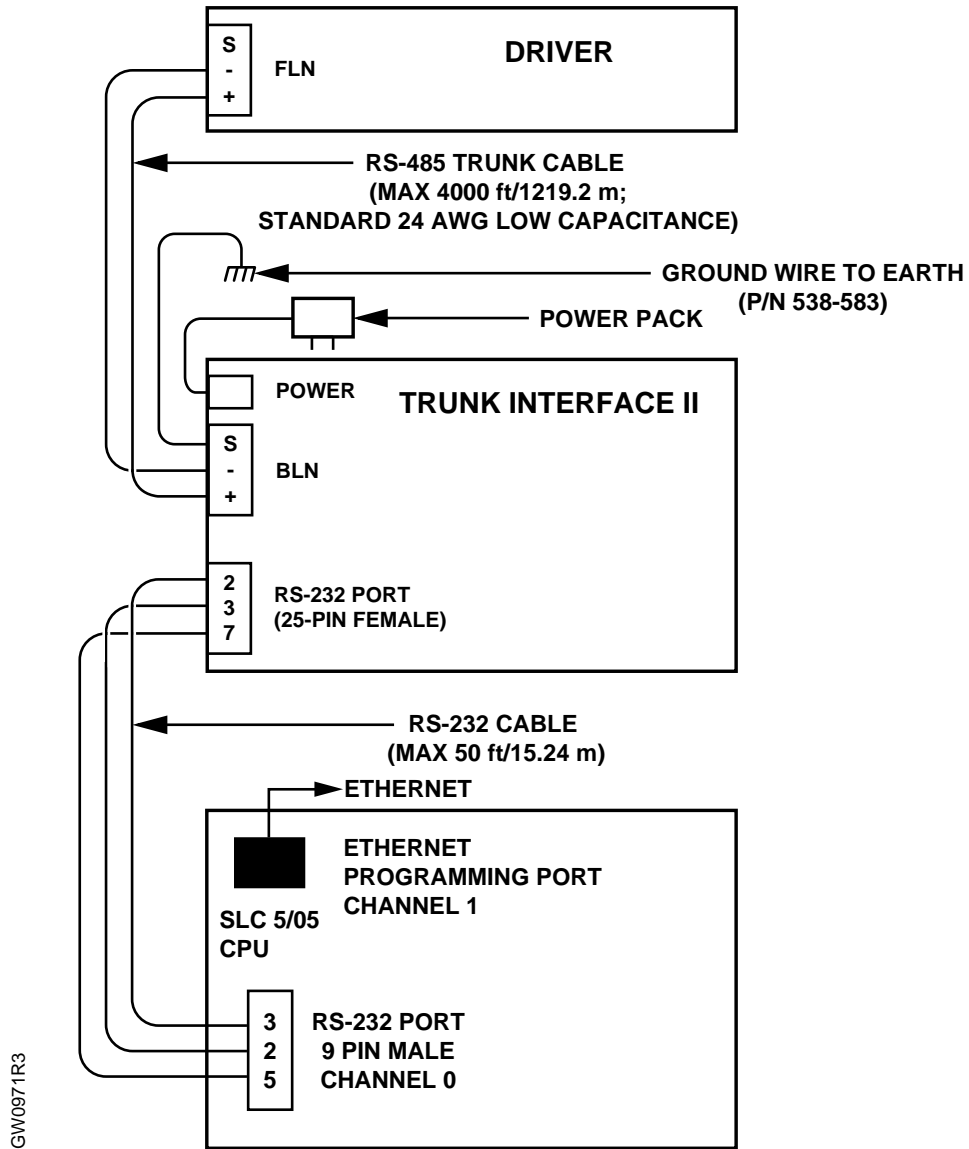


Figure 9. Connecting the Allen-Bradley DF1 Driver, Trunk Interface II, and SLC5/05.

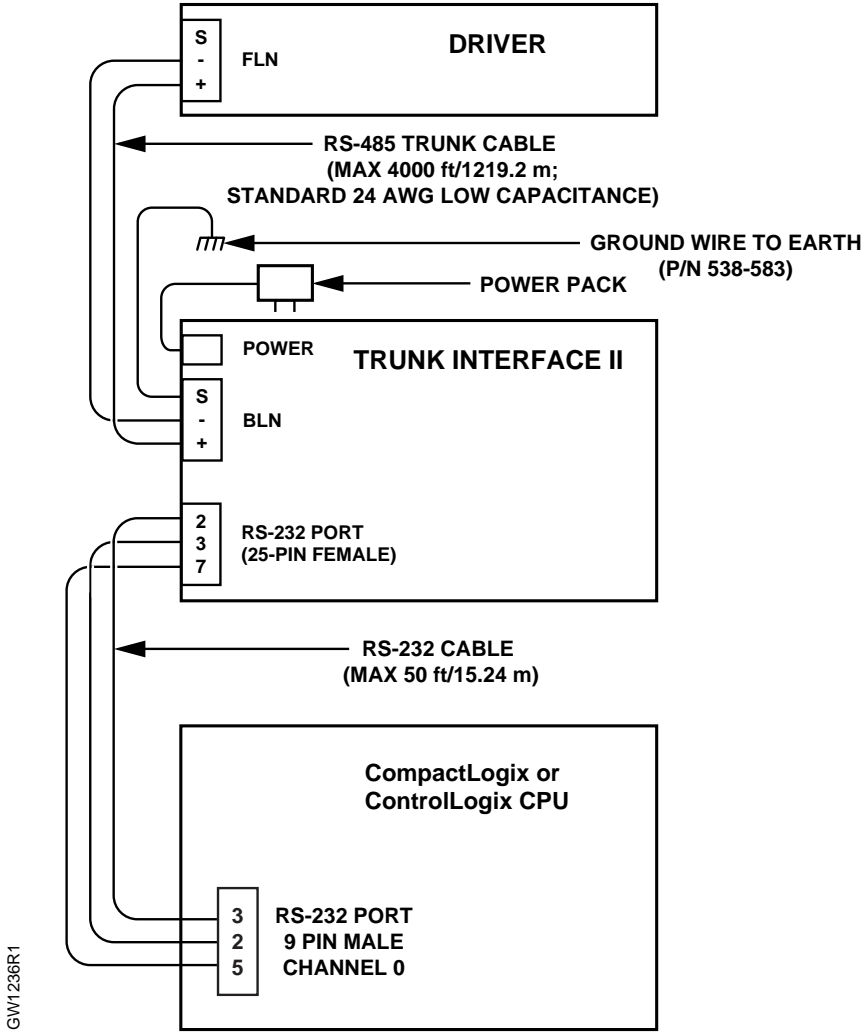


Figure 10. Connecting the Allen-Bradley DF1 Driver, Trunk Interface II, and CompactLogix or ControlLogix.

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