



Bulletin 1336T Isolator Board

Catalog No. 1336T – D2DIS

Installation Data

General

This publication is intended to provide you instructions for installing a 1336 Isolator board on a 1336 FORCE™ Drive network using Drive to Drive Communication. The Isolator board is required between your DC power supply and the power input at TB11 on the 1336 FORCE Motor Control Board.

Precautions



ATTENTION: Severe injury or death can result from electrical shock, burn, or unintended actuation of controlled equipment. Hazardous voltages may exist in the cabinet even with the circuit breaker in the off position. Multiple sources of power may be connected to the 1336 FORCE. Recommended practice is to disconnect and lock out control equipment from all power sources and discharge stored energy in capacitors, if present. If it is necessary to work in the vicinity of energized equipment, the safety related work practices of NFPA 70E, Electrical Safety Requirements for Employee Workplaces, must be followed. DO NOT work alone on energized equipment!



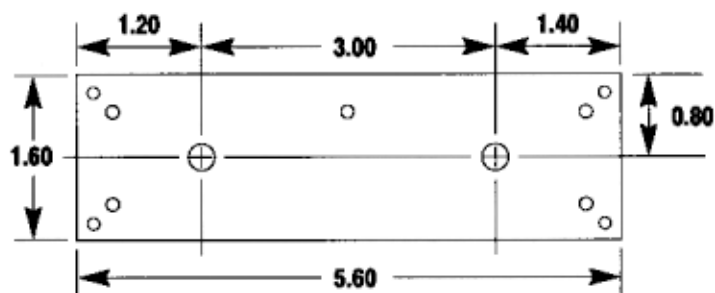
ATTENTION: When user installed control and signal wiring with an insulation rating of less than 600V is used, this wiring must be routed inside the drive enclosure so that it is separated from any other wiring and uninsulated live parts. Failure to do so could result in equipment damage or unsatisfactory Drive performance.

Mounting & Environment

The 1336 Isolator board must be mounted external to the drive in the vicinity of your power supply. The isolator board must be solidly mounted in an enclosure where it is not subject to excessive heat, vibration or contamination. Refer to the drilling plan in Figure 1 before you install the mounting screws. No horizontal or vertical restrictions apply.

Figure 1.
1336 Isolator Board Drilling Plan

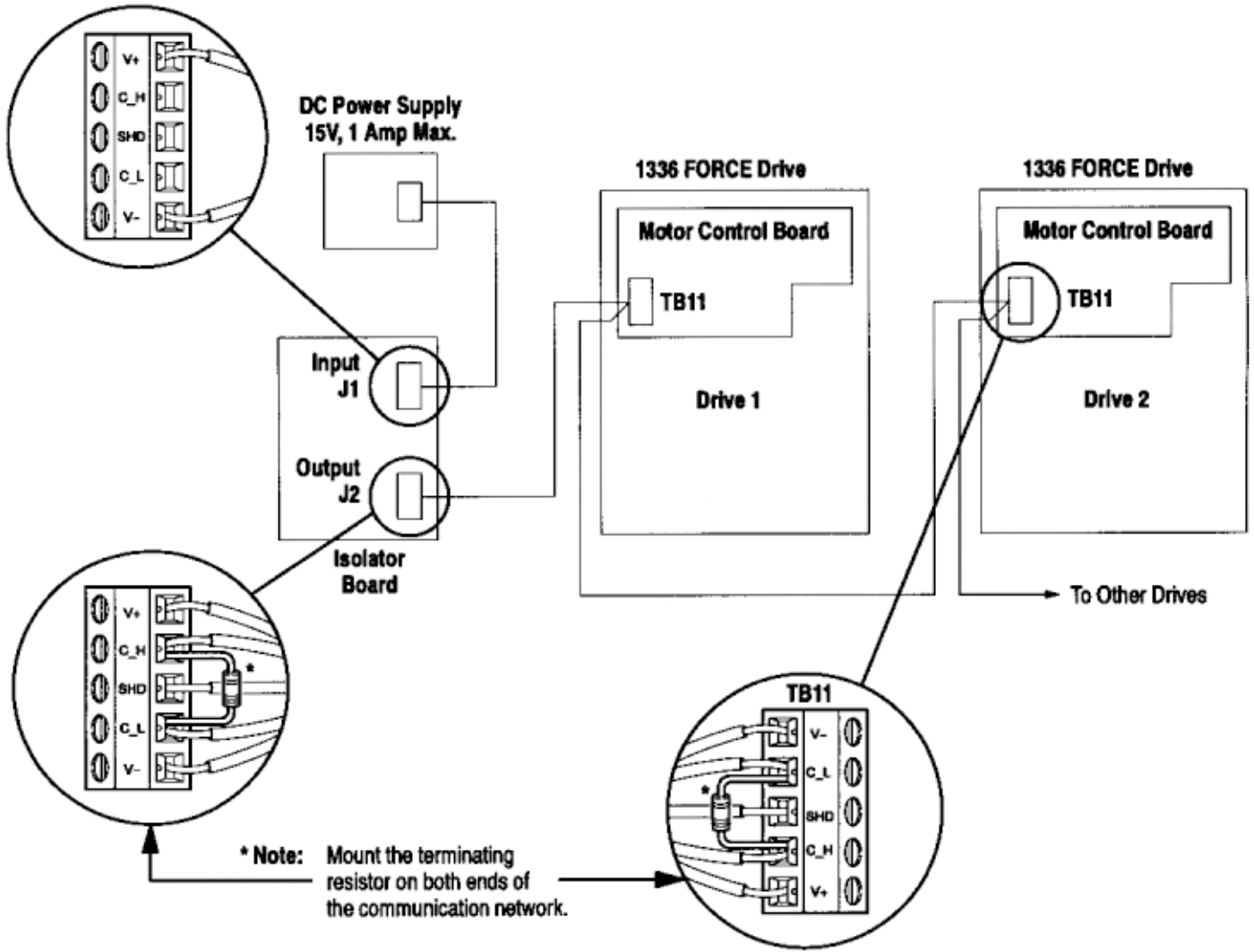
Template is actual size



Wiring & Operation

1. Remove and lockout all power to the Drive before you begin.
2. Wire running between the Isolator Board (Fig. 2) and the TB11 connector on the Motor Control Board must be a minimum of 3.3 mm² (12 AWG) and 0.06 mm² (30 AWG). Use copper wire only. Maximum torque for terminal blocks is 0.79 N·m (7 lb-in.)
3. The cable running between the drives (TB11) must be DeviceNet™ Cable (Belden YR 39660 or A-B 1485-C-PI-C). The cable shields must be tied together and grounded at one point. Place a 120Ω terminating resistor on both ends of the cable (Fig. 2).
4. Wire the Power Supply to the V+ and V- connections on the Isolator board J1 following the power supply manufacturer's recommendations.
5. Apply power to the Drive and to the Isolator board and check operation.

Figure 2.
Typical Isolator Board Wiring Example:



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