GE GE □□□ Series Service Manual

DS200TCDAH1BGD

1. Description

DS200TCDAH1B DS200TCDAH1BGD

2. Specifications

Specification	Value
Manufacturer	**GE General Electric**
Series	**Mark V**
Part	**Number DS200TCDAH1B DS200TCDAH1BGD**
Functional	**Description Digital I/O Board**
Functional	**Acronym TCDA**
PCB	**Coating Conformal Coating**
Functional	**Revision 1 B**
About	**the DS200TCDAH1B DS200TCDAH1BGD**
This	**DS200TCDAH1B printed circuit board is a well-documented product offering developed as a member of the Mark V Series of turbine control systems, as evidenced by its placement in several relevant Mark V Series instructional manual materials. The Mark V Series that this DS200TCDAH1B product offering belongs to its a relatively recently-developed General Electric product series that utilizes the patented Speedtronic technology that the respected automated industrial retailer has been designing since the introduction of the Mark I in the late 1960s.**

3. Product Information

DS200TCDAH1B DS200TCDAH1BGD | GE | Turbine Control

DS200TCDAH1B DS200TCDAH1BGD Technical Specifications

Manufacturer GE General Electric

Series Mark V

Part Number DS200TCDAH1B DS200TCDAH1BGD

Functional Description Digital I/O Board

Functional Acronym TCDA

PCB Coating Conformal Coating

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About the DS200TCDAH1B DS200TCDAH1BGD

This DS200TCDAH1B printed circuit board is a well-documented product offering developed as a member of the Mark V Series of turbine control systems, as evidenced by its placement in several relevant Mark V Series instructional manual materials. The Mark V Series that this DS200TCDAH1B product offering belongs to its a relatively recently-developed General Electric product series that utilizes the patented Speedtronic technology that the respected automated industrial retailer has been designing since the introduction of the Mark I in the late 1960s.

This DS200TCDAH1B printed circuit board or PCB for short is better-definable as a Digital IO or Digital I/O Board, the original functional descriptions that it possesses in factory-printed General Electric and Mark V Series instructional manual materials. This DS200TCDAH1B PCB is an edited version of the original DS200TCDAH1 Mark V Series Digital IO Board, modifying its parent PCB through the inclusion of a singular B-rated functional product revision.

Hardware Tips and Specifications

This DS200TCDAH1B printed circuit board is a well-documented product, for hardware component and specifications identification purposes.The GE Digital I/O Board DS200TCDAH1B features one microprocessor and multiple programmable read only memory (PROM) modules. It also contains 1 block of 10 LEDs and 2 50-pin connectors. The GE Digital I/O Board DS200TCDAGH1B also is populated with 8 jumpers and 1 LED that is visible from the side of the board. The GE Digital I/O Board DS200TCDAH1B also features 2 3-pin connectors. One 3-pin connector has the ID JX1 and the other has the ID JX2. The IDs assigned to the 8 jumpers in this DS200TCDAH1B PCB's assembly are prefixed with JP. For example:

one jumper is assigned the ID JP1

another jumper is assigned the ID JP2

The jumpers in the assembly of this DS200TCDAH1B printed circuit board are all included to select for a specific DS200TCDAH1B board application. Jumpers J1 and J8 on this DS200TCDAH1B PCB's base circuit board are included for factory testing purposes, and should not be accessed during normative function of the DS200TCDAH1B PCB. Jumpers J2 and J3 included with the DS200TCDAH1B Digital IO Board are intended for IONET Termination Resistors, while this DS200TCDAH1B product's J4, J5, and J6-labeled hardware jumpers select for this device's crucial IONET ID. The final remaining J7 jumper in the assembly of this TCDA-abbreviated printed circuit board was included to select this device's stall timer enable.

The test points in this DS200TCDAH1B Mark V Series product's assembly also have a prefix assigned to the IDs; the prefix for these test points being TP. For example, one test point is assigned the ID TP1, while another test point is assigned the ID TP2. With the use of a qualified testing device, a servicer can test the individual circuits on the board and pinpoint a fault that might be repairable. DS200DTBA and DS200DTBB are other related boards that are installed in the Mark V Series automated drive. Both receive signals from the GE Digital I/O Board DS200TCDAH1B through the 50-pin connectors in this DS200TCDAH1B PCB's internal assembly. One 50-pin connector relevant to this process is assigned ID JQ and the other 50-pin connector is assigned ID JR. Connector JQ connects to the JQR connector on DS200DTBA, with 50-pin ribbon cables providing the signals between the boards. Connector JR receives the contact input signal from DS200DTBB.

SPECIFICATIONS

Part Number: DS200TCDAH1B DS200TCDAH1BGD

Manufacturer: General Electric

Series: Mark V

Product Type: Digital I/O Board

One microprocessor and many programmable read-only memory (PROM) modules are included in the GE Digital I/O Board DS200TCDAH1B. It also includes a 10-LED block and two 50-pin connectors. The GE Digital I/O Board DS200TCDAGH1B also has eight jumpers and one visible LED on the side of the board. Two 3-pin connectors are also included on the GE Digital I/O Board DS200TCDAH1B. The ID JX1 is on one of the three-pin connectors, whereas the ID JX2 is on the other.

JP is prefixed to the IDs assigned to the eight jumpers. One jumper, for example, has the ID JP1. The ID JP2 is allocated to another jumper, and so on. The IDs of the test points have a prefix as well. TP is the prefix for the test points. One test point, for example, is given the ID TP1. The ID TP2 is assigned to another test point. A servicer can test the individual circuits on the board with a qualified testing device and find an issue that may be repairable.

Other boards installed in the drive are DS200DTBA and DS200DTBB. Through the 50-pin connectors, both receive signals from the GE Digital I/O Board DS200TCDAH1B. ID JQ is assigned to one 50-pin connector, whereas ID JR is assigned to the other 50-pin connector. On the DS200DTBA, the connector JQ connects to the JQR connector. The signals between the boards are transmitted using 50-pin ribbon wires. The contact input signal from DS200DTBB is received by connector JR.