ALLEN-BRADLEY

Allen-Bradley Bulletin 1395 Main Control Board

Kit Instructions

What This Update Covers

This publication provides you with the information necessary to install a new 1395 Main Control Board utilizing the proper hardware to ensure that the board is correctly mounted.

What This Kit Contains

Each update kit contains:

- (1) 1395 Main Control Board Version 8.xx & up
- (2) Thumb screws (P/N 135016)
- (1) 1395–6.9 Update Kit Instruction Sheet

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 1395. 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: This Drive contains ESD (Electrostatic Discharge) sensitive parts and assemblies. Static Control precautions are required when installing, testing, servicing or repairing this assembly. These precautions should be applied when working with the main control board. Component damage may result if ESD control procedures are not followed. If you are familiar with static control procedures, reference A–B publication 8000–4.5.2, *Guarding Against Electrostatic Damage* or any other applicable ESD Protection Handbook.

Replacement Procedure

The new Main Control Board is fabricated with 3/4" (19 mm) mounting thumb screws. The kit is shipped with additional 1" (25.2 mm) screws in a plastic bag. Depending on your particular drive it may be necessary to use these longer screws to mount the new Main Control Board. If the 3/4" (19 mm) screws do not fully engage (threads engaged at least three turns) in the back plate when installing the new board, substitute the longer screws.

Replacement Procedure Cont.

Depending on your particular drive, it may be necessary to use these longer screws to mount the new Main Control Board. If the 3/4" (19 mm) screws do not fully engage (threads engaged at least three turns) in the back plate when installing the new board, substitute the longer screws.

On MKVA (125 – 300 HP @ 230VAC / 250 – 600 HP at 460VAC) and HKVA (400–600 HP @ 230VAC / 700–1250HP @ 460VAC and 1000–2000 HP @ 660 VAC) drives you must use the new nylon standoff supplied when installing the new Main Control Board. Position the nylon standoff on the back side of the board and fasten the plastic restraining cable to the nylon standoff using the supplied nut and washer. DO NOT attempt to use the metal standoff from your old board when reinstalling the restraining cable. If you are installing a new Main Control Board in a Low Horsepower 1395, it will not be necessary to use the nylon standoff and fastening hardware, and it may be discarded.

After the Main Control Board is installed, and all ribbon cables and harness have been securely reseated, initializing the EEPROM will be necessary before link and parameter programming can be accomplished. If an encoder is used, verify that jumpers J8, J9 & J10 on the board are set correctly for the encoder voltage type (5V or 12V).

With a DHT/DMT programming terminal, or the Intelligent Terminal System (ITS), or Drive Tools connected to the Drive, select EEPROM functions and then **Initialize**. This process will erase old data stored in EEPROM, force the Main Control to read the Micro–Bus Ports, and save the appropriate values and ranges.

At this point, all parameters in the Drive will be reset to default values. It is necessary to reload the parameter data for the application. This can be accomplished by downloading a saved file through ITS or DriveTools, or by manually entering the parameter values with the DHT/DMT. A drive file conversion is recommended if installing a main control board of a different firmware version. This can be accomplished with "Drive Convert" in ITS or "Change Configuration" in DriveTools.

Publication 1395-6.9 – June, 1997
Supersedes – October, 1996

PN 155410