

## MicroGuard® 586 Display Console Error Code Retrieval Service Information



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## Service Information MicroGuard® 586 Display Console Error Code Retrieval

The MicroGuard® 586 Display Console used in conjunction with the 500 or 500R computer is capable of producing Grouped Error Codes, which are used as troubleshooting tools to assist in pinpointing problem areas. These error codes are located in the following four groups:

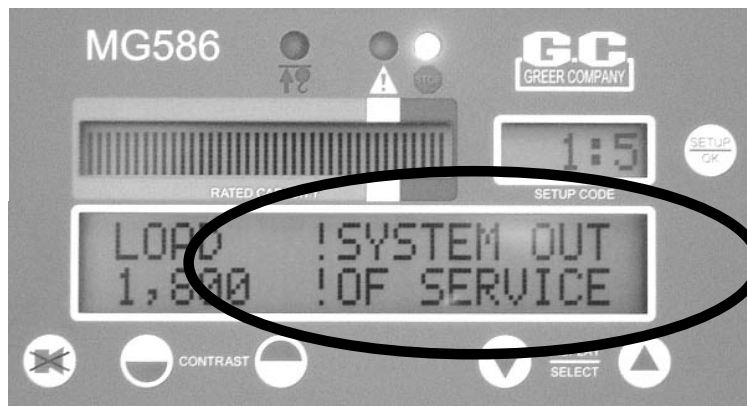
**“A” Group-** is designed for all analog sensor inputs. These functions must operate within a specific range of output outlined in the program instructions; if not within the expected range called for, the computer will produce a fault code “A XXX.” This code when compared to the error code chart will lead to a specific sensor to check out.

**“B” Group-** is intended to monitor internal voltage feeds, such as the ATB input/output circuit and transducer inputs.

**“C” Group-** monitors the memory modules of the computer. The part of this group that is user-serviceable is the Executive Program Chip, which is changeable.

**“D” Group-** refers to Load Chart (or Duty Chart) as it applies to specific sensor inputs. If one of the analog sensors is producing signals that are out of the specific voltage criteria, the computer will not be able to find a specific load chart to match this criteria. This code is usually accompanied by an analog or “A” code.

When an error is noted, the display will read: “System Out of Service” or “System Fault,” as shown.

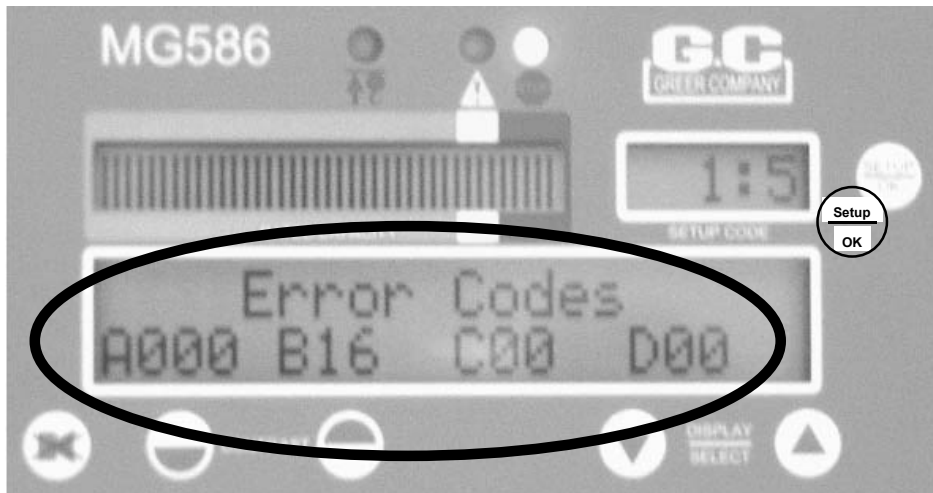


When “System Out of Service” or “System Fault” appears on the display screen, press the “Up” arrow button to display the specific problem.

**Example:** “Extension Sensor” or “Check FKO,” as shown here.



An error can usually be located and defined using the above definitions, but a more complete definition for diagnosis may be required. In this case, press the “SETUP” button on the display. The codes will appear on the screen by group with a code number to define the fault. Proceed to the 586 repair manual for the proper voltages and testing of these faults.



### **MG 586 Displaying the Error Code Groups**

For code definition, refer to the chart on the following page.

**Error Codes MG586**

| <b>“A” Group Fault Codes</b> |  |
|------------------------------|--|
| A1                           | TXO Piston Side Pressure Out of Range  |
| A2                           | TX1 Rod Side Pressure Out of Range     |
| A4                           | Extension Sensor Ain2, Out of Range    |
| A8                           | Boom Angle Sensor, AIN3, Out of Range` |
| <b>“B” Group Fault Codes</b> |  |
| B1                           | ADC1 (Piston Pressure) Not Responding  |
| B2                           | ADC2 (Rod Pressure) Not Responding     |
| B8                           | Bad ATB Feed                           |
| B16                          | Bad FKO Feed                           |
| <b>“C” Group Faults</b>      |  |
| C1                           | Bad Executive EPROM checksum           |
| C2                           | Bad Duty ROM Checksum                  |
| C4                           | Bad RAM Test                           |
| C16                          | Bad Serial EEPROM Test                 |
| <b>“D” Group Faults</b>      |  |
| D1                           | No Duty Found                          |
| D2                           | No Duty due to Bad Extension Match     |
|                              |  |



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