# Woodward 5464-544

## 01 Secure actuator motion

1. **Secure actuator motion**
2. Match the field circuit
3. Retain application settings
4. Test demand and fault response
5. Release the closed loops

## Work sequence

Identify the four driven functions and their response to current interruption. Establish the approved maintenance state before disturbing CPU communication or field wiring. Record shutdown and enable states for each loop.

### Acceptance condition

Current loss cannot cause an unplanned machine movement during service.

| | |
|---|---|
| Actuator channels | 4 |
| Output current range | 0–200 mA DC |

Current-range identity: Use the 0–200 mA execution for this part number. Do not transfer the resistance rating of the 0–25 mA variant.

Record the observed condition, test method and result for this stage. Resolve any difference before moving to match the field circuit.

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## 02 Match the field circuit

1. Secure actuator motion
2. **Match the field circuit**
3. Retain application settings
4. Test demand and fault response
5. Release the closed loops

## Work sequence

Trace each actuator through the termination module and cable. Check winding and circuit characteristics against the 200 mA execution and inspect polarity and conductor assignment. Do not substitute a lower-current actuator arrangement.

### Acceptance condition

The physical circuit and intended output range agree for every channel.

| | |
|---|---|
| Accuracy at 25 °C | 0.1% of full scale |
| Drift | 150 ppm/°C |

Safe fault response: Loss of control communication can interrupt output current. Assess the resulting actuator and machine behavior before testing or removing the module.

Record the observed condition, test method and result for this stage. Resolve any difference before moving to retain application settings.

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## 03 Retain application settings

1 Secure actuator motion

2 Match the field circuit

3 **Retain application settings**

4 Test demand and fault response

5 Release the closed loops

## Work sequence

Preserve channel scaling, enable logic and dither settings from the approved GAP application. Confirm the module position and configured hardware type before returning power. Avoid introducing a different channel architecture as a service replacement.

### Acceptance condition

The restored module is addressed by the intended application and output functions.

| | |
|---|---|
| Maximum actuator inductance | 1 H |
| Dither waveform | 25 Hz square wave; amplitude tunable |

Migration boundary: A replacement architecture may require new termination hardware and GAP changes; it is not established by the shared MicroNet family name.

Record the observed condition, test method and result for this stage. Resolve any difference before moving to test demand and fault response.

# Woodward 5464-544

## 04 Test demand and fault response

1 Secure actuator motion
2 Match the field circuit
3 Retain application settings
4 **Test demand and fault response**
5 Release the closed loops

## Work sequence

Apply controlled commands within the approved test envelope and compare current with actuator response. Investigate load faults and red indications separately. Test current interruption only with the resulting machine state controlled.

### Acceptance condition

The assigned channels respond correctly and the required fault action is demonstrated.

| | |
|---|---|
| Calibration storage | EEPROM constants; module requires no field calibration |
| Command transfer | CPU writes output values through VME to dual-port memory |

Current-range identity: Use the 0–200 mA execution for this part number. Do not transfer the resistance rating of the 0–25 mA variant.

Record the observed condition, test method and result for this stage. Resolve any difference before moving to release the closed loops.

# Woodward 5464-544

## 05 Release the closed loops

1 Secure actuator motion

2 Match the field circuit

3 Retain application settings

4 Test demand and fault response

5 Release the closed loops

## Work sequence

Remove temporary test conditions in a defined order and verify the final actuator position and process response. Keep the tested command range, faults, adjustments and hardware identity with the maintenance record.

### Acceptance condition

All four affected functions are accepted with normal control and shutdown logic restored.

| | |
|---|---|
| Driver fault response | Actuator current interrupted |
| CPU communication loss | Actuator current interrupted |

**Woodward 5466-353**

**Woodward 5466-031**

**Woodward 5464-335**

Related products require separate compatibility assessment. Retain the final configuration and signed test outcome.