

Drives



AFi Systems Drive Repairs

AFi Systems provides a large staff of trained technicians for all your drive repair needs. Our ISO-qualified staff collectively offers over 350 years of experience repairing a wide variety of drives, including Variable Frequency Drives (VFDs), AC Drives, DC Drives, Servo Drives, Stepper Drives, Spindle Drives, VFD HVAC Drives, and more.

We offer highly competitive pricing coupled with exceptional value, ensuring you receive the best possible service at an affordable cost. Our team is available 24 hours a day, 7 days a week, 365 days a year for field service calls, and emergency repairs ensuring your operations experience minimal downtime.

Expedited Service is available to meet your time sensitive needs.

Every repair comes with a comprehensive free evaluation and detailed quote, rapid turnaround times, and an extensive 2-year warranty, giving you peace of mind and confidence in our quality of service.

Our highly experienced technicians are also proficient in legacy repairs, adhering strictly to the original manufacturing standards, ensuring your equipment maintains its original reliability and performance standards.

We service drives from an extensive range of top manufacturers, including but not limited to Allen Bradley, ABB, B&R Automation, Danfoss, Mitsubishi, Nidec, Kollmorgen, Yaskawa, Parker, Moog, Siemens, and Schneider Electric. Whatever brand or issue you encounter, you can rely on AFi Systems to get your drive running effectively again.

Expedited Service is available to meet your most urgent and time-sensitive repair needs, minimizing your operational downtime and keeping your processes moving efficiently.

Common Drive Issues and Solutions

Industrial drives are complex systems, and failures can stem from various causes. AFi Systems' technicians are trained to diagnose and resolve a wide range of issues, including:



Receive and Evaluate
Free Quote



ISO Certified Staff
Testing, Maintenance, Repair



Fast Repair Turnaround
No Fix / No Fee



Customer Support
Follow-up

- ABB
- AC Tech
- AEG
- Allen-Bradley
- Amicon
- Bosch
- Baldor
- Camco
- Control Techniques
- CNC
- Danfoss
- Emerson
- General Electric
- Fanuc
- Leeson
- Lenze
- Mitsubishi
- Panasonic
- Parker SSD
- Rexroth
- Schneider Electric
- Schindler
- Siemens
- Toshiba
- Vacon
- Yaskawa
- And many more...

- **Overcurrent Faults:** Often caused by short circuits or overloads, these are addressed by repairing or replacing damaged power components.
- **Cooling Fan Failures:** Faulty fans can lead to overheating and high-temperature faults, resolved by replacing fans and ensuring proper thermal management.
- **Electrolytic Capacitor Degradation:** Aging capacitors are a common failure point, replaced during repairs to restore drive stability.
- **Loose Connections:** Technicians inspect and secure all connections to eliminate intermittent faults.
- **Power Semiconductor Failures:** Damaged IGBTs or diodes are replaced with high-quality components to restore functionality.
- **Programming Errors:** AFI's team can reprogram drives to correct software-related issues, ensuring compatibility with your system.
- **Circuit Board Issues:** While less common, damaged PCBs are repaired or replaced with precision to maintain drive integrity.

Drive Repair Process

We offer the highest quality AC and DC Drive Repairs, Servo and Stepper Drive Repairs, and HVAC Drive Repairs for all makes and models. With the latest equipment and factory trained staff we put your drive through a litany of tests and maintenance checks.

- Inputs and outputs are tested per manufacturers specification
- Drives are load tested after repair
- Dynamic and Static Tests
- Chemically clean unit
- Thoroughly test components
- Replace bad and worn components: Resistors, Diodes, IGBTs, Capacitors, Electrolytic Caps, Fans, Relays

- Preventative Maintenance parts replacement
- Full run-tested on brand and model specific CNC simulator
- Soak Testing

Supported Industries

AFi Systems serves a wide range of industries reliant on drive technologies, including:

- **Manufacturing:** Supporting CNC machines, robotics, and automated production lines.
- **HVAC:** Repairing VFDs for heating, ventilation, and air conditioning systems to optimize energy efficiency.
- **Automotive:** Maintaining drives for assembly lines and precision machinery.
- **Aerospace:** Ensuring reliable operation of servo and spindle drives in high-precision applications.
- **Energy:** Supporting drives in renewable energy systems and power generation equipment.
- **Plastics:** All drives from extrusion, blow molding, injection molding or thermal forming lines.
- **Paper and Printing:** Supporting all phases of paper production, converting and processing.

