

## Repair of MDS-A/B/C/D/DH Mitsubishi Drive Electronics

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# Repair of Mitsubishi Drive Electronics

MDS-A  
MDS-B  
MDS-C / CH  
MDS-D / DH / D2

## Mitsubishi Drive Electronics

We test and repair Mitsubishi AC power supplies as well as spindle and servo modules.

Additionally, we offer service for Mitsubishi motors.



We specialize in the following series:

- MDS-A
- MDS-B
- MDS-C / CH
- MDS-D / DH / D2

Our repair process is preventive-oriented and includes a series of steps that contribute to ensuring high repair quality.

## Fault analysis and localization

### What can you do?

Faults in power supplies, servo, and spindle modules.

The motor jerks or vibrates abruptly. ▶

The device either remains turned off or turns on in the morning after a certain time.

The device reports overload.

#### Possible solutions and hints

- Try replacing the motor as a test.
- Check cable connections.
- Operate in jog mode without load.

If these measures do not help, the fault usually lies in the power stage of the drive module.

**For additional error messages, refer to the alarm list available for download at the end of this page.**

## Handling parameters

When parameterizing, it is crucial to save the settings early and also document jumper and key settings.

 Parameter is set on the device

### What should be considered when parameterizing?

- The parameters are not stored in the devices but in the machine. The user must perform this process independently at the machine.
- Pay attention to jumper and key settings and it's best to take photos of them.

- Obtain the appropriate documentation or software for setting the parameters.

You will find further documentation on this topic at the end of this page or ask us.



MDS-A-6B-00 Power  
Supply Unit  
2550.00 €



MDS-A-6B-75 Power  
Supply Unit  
2185.00 €



MDS-A-SVJ-20 Servo  
Drive Unit  
1270,00 €

Buy



MDS-A-SVJ-03 Servo  
Drive Unit  
720,00 €

Buy



MDS-A-SVJ-01 Servo  
Drive Unit



MDS-B-CVE-55 Power  
Supply Unit

720.00 €

1990.00 €

Buy

Buy



MDS-B-CV-75 Power  
Supply Unit

2370.00 €

MDS-C1-V2-2002 2 Axis  
Unit

2275.00 €

Buy

Buy

MORE ITEMS IN THE SHOP

## The typical process for repairing Mitsubishi drive modules

The repair process for drive modules includes the following steps:

- Preventive overhaul - replacement of all necessary defective and worn parts.
- Intensive cleaning.
- Comprehensive final and stress tests on our test benches.
- Parameter matching or restoration of parameters.
- Completion of documentation and checklists.



VIDEO: Repair and test process of Mitsubishi AC Servo/Spindle Drives MDS-A/B/C/D/DH

## High-quality spare parts for high-quality repairs



For Mitsubishi drive modules, we replace

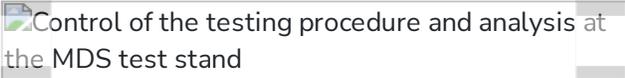
- Electrolytic capacitors
- Large buffer capacitors
- Relays
- Current measuring modules
- Optocouplers

Additionally, we replace certain parts that have been frequently failing over multiple repairs and have been statistically selected for replacement.

To counteract bottlenecks and discontinuations, we have process-oriented software solutions that monitor our inventory. We order some parts in advance, and for series repairs, we even secure ourselves with sufficient spare parts for a year to ensure access to a large stock at any time.

## Quality and Level of Repair

A professional repair requires the use of a test bench. Specially tailored and complex testing equipment is developed for each new series. The devices are thoroughly checked for functionality by undergoing a long-term stress test.



Control of the testing procedure and analysis at the MDS test stand

The test is conducted on a test bench that allows a 100% simulation of processes as in a real machining machine with Mitsubishi control.

During the test, the following are checked:

- BUS control
- POT/NOT
- Encoder connection
- Alarm states
- Speed
- Current and voltage consumption
- Temperature
- Parameters



VIDEO: Repair and test process of Mitsubishi AC Servo/Spindle Drives MDS-A/B/C/D/DH

## We continuously expand our repair portfolio with new series

Since drive and power electronics are often prematurely discontinued, you may be under pressure to deliver replacements to your customers on time. We assist you in analyzing bottlenecks and work together on optimal solutions.

The typical process includes:

- Development of test stands and procedures
- Organization of spare parts
- Preventive repair at the component level
- If needed, development of new or re-engineering of modules or complete devices

## Frequently Asked Questions (FAQ)



### Drive module repair

✓ In which quality/level are load tests performed at your company?

✓ Do you have special spare parts, which are necessary for qualitative repair?



✓ What processes are involved in the repair of drive modules?

✓ Can you parameterize the devices?



### Further information

✓ What are the example type designations for this device series?



Will I get a detailed repair report after a successful repair?

✓ Do you commission new or unknown equipment?

✓ Can it happen that after repair my device continues to show errors?

✓ What does serial repair or overhaul mean



### Cost & Warranty



✓ What are the costs for repair or overhaul? What does "flat repair rate or standard repair price" mean?

✓ Is there a warranty for the respective repair?

Alarm Lists

Manuals



MDS-A-B-Servo-Spindle-Powersupply-Alerts.pdf (7.48 MB)



MDS-C1-Powersupply-Alerts.pdf (0.08 MB)



MDS-C1-Servo-Spindle-Alerts.pdf (0.41 MB)



MDS-CH-Servo-Spindle-Alerts.pdf (0.25 MB)



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We are solution-oriented