

EIA Robotics — Omio X8 CNC Router — VFD Fault Code Reference

No.	Fault Code	Fault Type	Possible Cause	Countermeasure
2	Err02	Acceleration overcurrent	1. Too short acceleration time 2. Low voltage 3. Small frequency converter selection	1. Increase acceleration time 2. Set the voltage to the normal range 3. Frequency converter power increase
3	Err03	Deceleration overcurrent	1. Too short deceleration time 2. Low voltage 3. No additional brake resistor	1. Increase deceleration time 2. Set the voltage to the normal range 3. Install brake resistor
4	Err04	Constant speed overcurrent	1. Low voltage 2. If a sudden load added 3. Small frequency converter selection	1. Set the voltage to normal 2. Cancel sudden load 3. Frequency converter power increase
5	Err05	Acceleration overvoltage	1. High input voltage 2. In acceleration, an external force driving motor running 3. The acceleration time is too short. 4. No brake resistor	1. Set the voltage to normal 2. Cancel external force or install brake resistor 3. Increase acceleration time 4. Add brake resistor
6	Err06	Deceleration overvoltage	1. High input voltage 2. An external force driving motor running in deceleration 3. The deceleration time is too short. 4. No brake resistor	1. Set the voltage to normal 2. Cancel external force or add brake resistor 3. Increase deceleration time 4. Add brake resistor
7	Err07	Constant speed overvoltage	1. High input voltage 2. An external force driving motor running in running	1. Set the voltage to normal Cancel external force or add brake resistor
8	Err08	Control power fault	The input voltage is not within the specified range	Set the voltage to normal
9	Err09	Undervoltage	1. The input voltage of the inverter is not within the specified range 2. Abnormal bus voltage 3. Abnormal rectifier bridge and buffer resistance anomaly 4. Abnormal control board	1. Reset failure 2. Adjust the voltage to the normal range 3. Seek technical support
10	Err10	Frequency converter overload	1. Too large load or the motor shutoff 2. Small frequency converter selection	1. Reduce the load and check the motor and machinery 2. Select a higher power inverter

No.	Fault Code	Fault Type	Possible Cause	Countermeasure
11	Err11	Motor overload	1. Motor protection parameter P9-01 set properly? 2. Too large load or motor shutoff 3. Small frequency converter selection	1. Set this parameter correctly 2. Reduce load and check motor and machinery 3. Select higher power frequency converter
12	Err12	Input missing phase	1. Abnormal input power supply 2. Abnormal driver board 3. Abnormal main control board	1. Check and remove faults in outer lines 2. Seek technical support
13	Err13	Output missing phase	1. Abnormal lead from frequency converter to motor 2. In motor running, the three-phase output of the inverter unbalanced 3. Abnormal driver board	1. Remove outer faults 2. Check motor three-phase winding and remove faults 3. Seek technical support
14	Err14	Inverter module overheating	1. High ambient temperature 2. Air duct obstruction 3. Fan damage 4. Module thermal resistor damage	1. Reduce the ambient temperature 2. Clear the air duct 3. Replace fan 4. Replace thermal resistor
15	Err15	External equipment fault	1. Input external fault signal through multifunction terminal X 2. Input the external fault signal through the virtual IO function	1. Reset operation 2. Reset operation
16	Err16	Communication fault	1. Abnormal upper computer 2. Abnormal communication line 3. Incorrectly set communication Pd group parameter	1. Check the upper computer wiring 2. Check the communication connection 3. Correctly set the communication parameters
17	Err17	Contactor fault	1. Abnormal driver board and the power supply 2. Abnormal contactor	1. Replace drive or power board 2. Replace contactor
18	Err18	Current detection fault	1. Check the abnormal Hall device 2. Abnormal driver board	1. Replace Hall device 2. Replace drive board
19	Err19	Motor tuning fault	1. Motor parameters are not set according to nameplate 2. Timeout parameter identifying	1. Set the motor parameters correctly according to the nameplate 2. Check lead from frequency converter to motor
21	Err21	EEPROM reading and writing fault	1. EEPROM chip damage	1. Replace main control board
26	Err26	Running time reach fault	1. The cumulative run time reaches the set value	1. Using the parameter initialization function to clear the record information

No.	Fault Code	Fault Type	Possible Cause	Countermeasure
29	Err29	Power on time reach fault	1. The cumulative power on time reaches set value	1. Using the parameter initialization function to clear the record information
30	Err30	Load drop fault	1. Inverter running current less than P9-64	1. Confirm if the load is separated or if the P9-64/P9-65 parameters are in accordance with the actual running conditions
31	Err31	PID running feedback loss	1. PID feedback less than PA-26 set value	1. Check the PID feedback signal or set the PA-26 to an appropriate value
40	Err40	Wave-by-wave limiting current fault	1. Too large load or the motor shutoff	1. Reduce load and check motor and mechanical conditions
41	Err41	Running switching motor fault	1. Change present motor selection by terminal during inverter running	1. Motor switching operation after frequency converter stops

This fault code table is sourced directly from Omio CNC documentation for the X8 router's spindle VFD. Confirm parameter numbers (e.g., P9-xx, PA-26) against the current Omio X8 manual before servicing. Electrical troubleshooting carries inherent risk and is performed at your own risk — only trained, authorized personnel should attempt it, and improper handling of electrical components can cause injury or equipment damage.