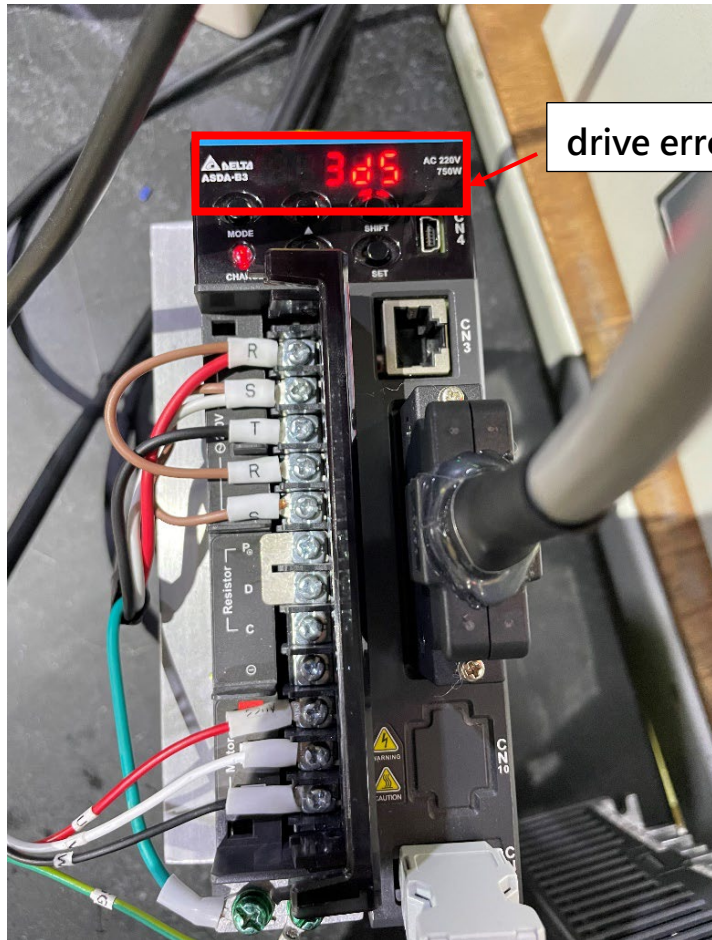
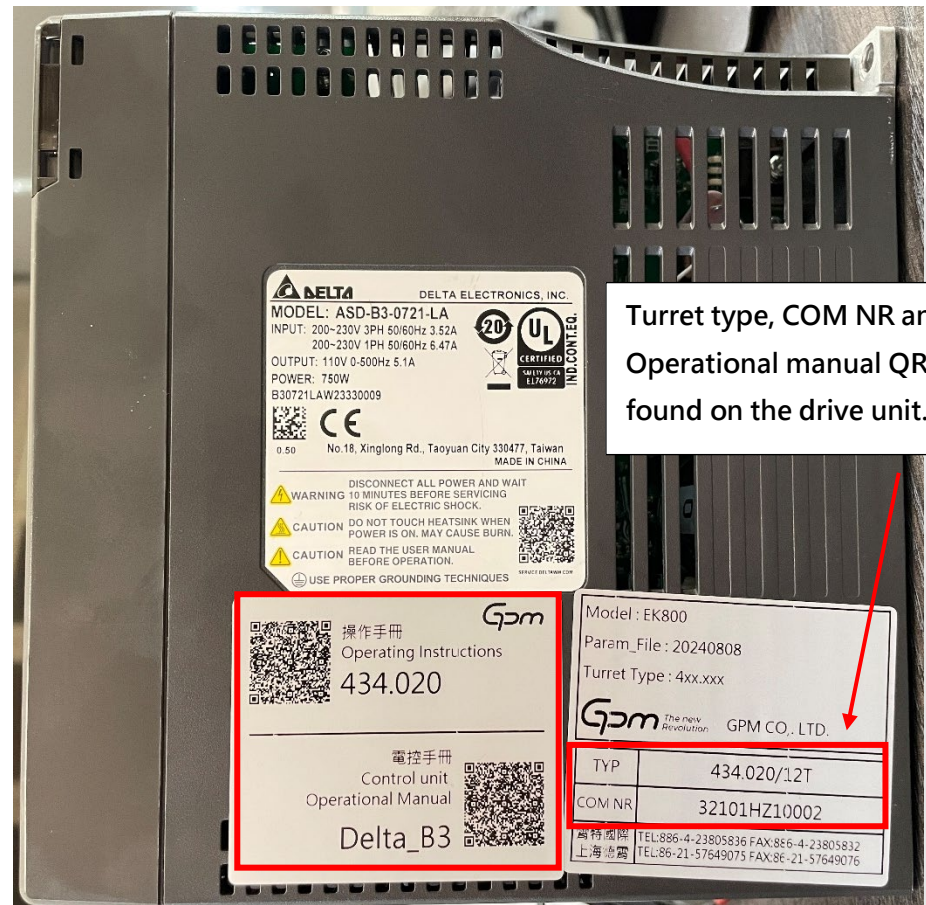


Delta B3&E3 drive error code



drive error code



Turret type, COM NR and Operational manual QR code can be found on the drive unit.

| No. | Abnormal alarm code | Abnormal alarm message | Possible causes | Troubleshooting |
|-----|---------------------|---|--|---|
| 1 | AL001 | Over current | 1. Is water entering the connector? 2. Is the line short circuited? 3. Remove UVW connectors and reconnect; If AL001 remains, then drive unit was burn down. | 1. Clean connectors, blow dry and reinstall 2. Change cable line 3. Replace with a new drive unit. |
| 2 | AL002 | Over voltage | 1. Check whether the voltage exceeds 240V 2. Check whether the voltage is stable 3. Check whether there is a voltage surge | 1. Change voltage source 2. Install voltage regulator 3. Install reactance coil |
| 3 | AL003 | Low voltage | 1. Check whether the voltage is lower than 180V 2. Check whether PDC regenerative resistor is not installed 3. Check whether MC circuit breaker specification is too small | 1. Replace the voltage source 2. Install PDC regenerative resistor 3. Change to larger MC circuit breaker |
| 4 | AL004 | Abnormal position of motor magnetic field | Whether the motor and drive are connected incorrectly | Correct motor and drive connections |
| 5 | AL005 | Regenerative resistor error | 1. Check whether current is normal ? 2. Check whether tool holders are mounted evenly ? 3. Check whether PDC regenerative resistor is installed ? | 1. Install the ground line 2. Install tool holders evenly 3. Install PDC regenerative resistor |
| 6 | AL006 | Overload | 1. Check whether the cable resistance is normal ? | 1. Change the cable line 2. Install pressure accumulator |



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| | | | 2. Check whether turret rotates smoothly 3. Check if the motor can be rotated manually ? | 3. Replace motor |
| 7 | AL06A | Origin not set | 1. Check whether drive unit is damaged 2. Check whether motor is off position ? 3. Check whether cable line quality is poor | 1. Replace drive unit 2. Replace motor 3. Replace cable line |
| 8 | AL009 | Position control error is too large | 1. Check hydraulic pressure 2. Check whether hydraulic pressure is stable 3. Check whether cable line is normal 4. Check whether there are other abnormal alarm codes? 5. Check motor UVW cables 6. For driven turret, please check whether the origin is deviated or there is tool holder interference. | 1. Adjust the pressure to 50kg 2. Install the pressure accumulator. 3. Replace cable line 4. If other abnormal alarm codes appear, please refer to the corresponding troubleshooting. 5. Check whether motor UVW is connected incorrectly or lack phase. 6. Make proper adjustment on power shaft and tool disc. |
| 9 | AL011 | Location detector abnormal | 1. Check whether connector is water-intruded or loose. 2. Check whether cable line is broken 3. Check whether motor is damaged | 1. Clean and reinstall connector 2. Re-wiring 3. Replace motor |
| 10 | AL014 | Reverse limit abnormal | Check if drive unit is brand new? | 1. If the drive unit is brand new, reconfirm whether correct parameters are installed ? 2. If the drive unit is not brand new: →Parameter setting error, please set correct parameters →The drive is damaged, replace the drive unit. |
| 11 | AL018 | Detector output abnormal | Check CN2 encoder cable | Replace Cn2 cable |
| 12 | AL022 | Main circuit power supply abnormal | Check whether three-phase RST current is normal | Provide stable power |
| 13 | AL024 | Encoder initial magnetic field error | Check whether voltage is stable | Install voltage regulator |
| 14 | AL025 | Encoder internal error | Check whether the ground line is properly installed | Connect the motor ground line |
| 15 | AL026 | Encoder error | Check whether Cn2 cable isolation network is installed correctly | Connect the isolation nets at both ends |
| 16 | AL029 | Gray code error | Any crash happened ? | Replace motor |
| 17 | AL033 | Encoder internal communication abnormal | 1. Check whether the encoder 5V power supply is lower than 4.3V 2. Check whether there is any high voltage passing through the Cn2 line causing interference | 1. Check the Cn2 cable line, unplug it and reinsert it 2. Replace the motor or line |
| 18 | AL034 | Encoder internal communication abnormal | Check whether Cn2 cable is connected correctly ? | Replace Cn2 cable line |
| 19 | AL036 | Encoder alarm status error | 1. The power line and Cn2 line must be grounded | 1. Check the Cn2 cable line, unplug it and reinsert it 2. Replace the motor or line |

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|--------------------|--------|--|---|---|
| | | | 2. Check whether there is any high voltage passing through the Cn2 line causing interference | |
| 20 | AL060 | absolute position missing | 1. Check whether origin is not set ? 2. Check whether connector is fastened properly ? | Reset origin |
| 21 | AL083 | Abnormal current detection range | 1. Check whether current is normal 2. Check whether tool holders are mounted evenly 3. Check whether PDC is installed | 1. Replace motor 2. Tool holders must be mounted evenly on the tool disc. 3. Install PDC regenerative resistor |
| GPM CO., LTD 22 | AL084 | Drive unit error | Check whether drive unit is abnormal | www.GPMcnc.com Replace drive |
| | | | | |
| 23 | AL085 | Regenerative resistor error | Check mounting of tool holders | 1. Tool holders must be mounted evenly. 2. Check whether PDC regenerative resistor is installed 3. Reduce motor acceleration, deceleration and speed 4. Replace drive unit |
| 24 | AL086 | Regenerative resistor error | 1. Check whether current is normal 2. Check whether tool holders are mounted evenly 3. Check whether PDC is installed | 1. Adjust parameters and control acceleration and deceleration 2. Tool holders must be mounted evenly. 3. Install PDC regenerative resistor |
| 25 | AL099 | DSP firmware upgrade | Check whether need to reinstall firmware | Reboot |
| 26 | AL201 | CANopen data initial error | Check whether need to reinstall software | Failed to install software, reinstall |
| 27 | AL289 | Position counter overflow | 1. Check whether there is a crash 2. Check whether the origin is not set | 1. Rotate T1 to the marked line 2. Reset the origin |
| 28 | AL350 | absolute position missing | 1. Check whether it is installed for the first time 2. Check whether the origin is not set | 1. AL350 will appear during first time installation. 2. Set origin |
| 29 | AL400 | Indexing coordinate error | Check driver firmware/software version | Replace drive unit |
| 30 | AL 3C3 | Emergency stop is pressed or CN1/CN2 line abnormal | Check whether the emergency stop switch is pressed down | Release the emergency stop switch |
| 31 | AL0A6 | The absolute position of the drive unit and the motor does not match | If the drive unit or motor is replaced | Reset origin |
| 32 | ALF021 | PLC origin setting timing error | In origin mode, servo on will appear if switched in a short time. | 1. Check the PLC origin timing 2. DI10 abnormal alarm cleared |
| 33 | AL3B7 | Enter non-existent revert mode | Origin parameter setting error | Confirm P5.004 parameter setting |
| 34 | AL3B8 | Abnormal numbers of tool numbers | Abnormal tool numbers parameter setting | Confirm P5.096 Parameter setting |
| 35 | AL3B9 | Triggered tool number is beyond setting | Abnormal triggered tool number | Confirm whether triggered tool number is within P5.096 parameter |

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| 36 | AL3B1 | The home position has not been set.Functions other than JOG or forward/reverse inching are disabled. | Origin not set | Reset origin |
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