

بارمان اتوماسیون

لیست آلارم ها

ESTUN
Servo System



ESTUN
AUTOMATION

لیست آلامها در درایو سرو ESTUN

| Item | Alarm name | Possible reason | Solution |
|------|---------------------|--|---|
| A.01 | Parameter breakdown | The power supply was turned OFF while changing the parameter setting. | Set Fn001 to initialize the parameter and input parameter again. |
| | | The number of times that parameters were written exceeded the limit. For example, the parameter was changing every scan through the host controller. | Replace the servo drive. |
| | | The circuit of servo drive is faulty. | Replace the servo drive. |
| A.02 | A/D breakdown | A malfunction occurred in reading section of the analog reference input. | Clear and reset the alarm and restart the operation. |
| | | A servo drive board fault occurred | Replace the servo drive. |
| A.03 | Overspeed | The position or speed reference input is too large. | Reduce the reference value. |
| | | The setting of the reference input gain is incorrect. | Correct the reference input gain setting. |
| | | The order of phase U, V and W in the servo motor wiring is incorrect. | Correct the servo motor wiring. |
| | | A servo drive board fault occurred. | Replace the servo drive. |
| A.04 | Overloaded | The servo motor wiring is incorrect or the connection is faulty. | Correct the servo motor wiring. |
| | | The actual torque exceeds the rated torque or the starting torque largely exceeds the rated torque. | Reconsider the load and operation conditions, or reconsider the servo motor capacity. |



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| A.04 | Overloaded | The encoder wiring is incorrect or the connection is faulty. | Correct the encoder wiring. |
| | | The servo motor over temperature and lead to demagnetization. | Cooling the servo motor, or replace the servo motor. |
| | | A servo drive board fault occurred. | Replace the servo drive. |
| A.05 | Deviation counter error | Internal pulse counter fault occurred. | Clear and reset the alarm and restart the operation. |
| | | A servo drive fault occurred. | Replace the servo drive. |
| A.06 | Position error pulse overflow | The servo drive gain adjustment is improper. | Increase the speed loop gain (Pn102) and the position loop gain (Pn104). |
| | | The position reference pulse frequency is too high. | Smooth the pulse input and reduces the electronic gear ratio. |
| | | Setting of the overflow counter (Pn504) is incorrect. | Set the parameter Pn504 to proper value. |
| | | The servo motor specifications do not meet the load conditions such as a torque and moment of inertia. | Reconsider and correct the load and servo motor capacity. |
| | | Wiring of the servo motor U, V and W are incorrect. | Correct the servo motor wiring. |
| | | A servo drive board fault occurred. | Replace the servo drive. |



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| A.07 | Electronic gear over limited | The electronic gear ratio outside the setting range. | Reduce the fraction (both numerator and denominator) until you obtain integers within the range ($0.01 \leq \text{Electronic gear ratio (B/A)} \leq 100$). |
| | | The input frequency is incorrect. | Check the input technical specification of reference pulse. |
| A.08 | Current feedback (channel A) error | A servo drive board fault occurred. | Set Fn005 to automatic adjustment of the offset of current. |
| A.09 | Current feedback (channel B) error | A servo drive board fault occurred. | Set Fn005 to automatic adjustment of the offset of current. |
| A.10 | Encoder feedback error | The encoder wiring is incorrect or the connection is faulty. | Correct the encoder wiring. |
| | | An encoder fault occurred. | Replace the servo motor. |
| | | A servo drive fault occurred. | Replace the servo drive. |
| A.12 | Overcurrent | The encoder wiring is incorrect or the connection is faulty. | Correct the encoder wiring. |
| | | A short circuit occurred between phase U, V and W of the servo motor. | Repair or replace the servo motor power cable. |
| | | A short circuit occurred between the grounding and UV or W of the servo motor cable. | Repair or replace the servo motor power cable. |
| | | The dynamic brake was active too frequently. | Replace the servo drive, and reduce the DB operation frequency. |
| | | The ambient temperature exceeds 55°C. | Relocate the servo drive, and keep it away from other devices. |
| | | A servo drive fan fault occurred. | Replace the servo drive. |



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| A.12 | Overcurrent | The overload or regenerative power exceeds the regenerative resistor capacity. | Reconsider the load and operation conditions. |
| | | C Phase angle of encoder was deflected. | Refer to the guidance; adjust the operation of the encoder installation. |
| | | The wrong alarm signal. ▲ | Modify the value of parameter Pn521 as 1. |
| A.13 | overvoltage | The AC power voltage is too high. | Correct the input voltage. |
| | | The motor speed is high and load movement of inertia is excessive, resulting in insufficient regenerative capacity. | Check the load movement of inertia and minus load specifications, Reconsider the load and operation conditions. |
| | | A servo drive board fault occurred | Replace the servo drive. |
| | | The wrong alarm signal. ▲ | Modify the value of parameter Pn521 as 1. |
| A.14 | Under voltage | The AC power supply voltage was lowered, and large voltage drop occurred. | Correct the input voltage. |
| | | The fuse of the servo drive is blown out. | Replace the servo drive. |
| | | The surge current limit resistor is disconnected, resulting in an abnormal power supply voltage or in an overload of the surge current limit resistor. | Replace the servo drive. Check the power supply voltage, and reduce the number of times that the main circuit is turned ON or OFF. |
| | | The jumper of servo drives between ⊕1 and ⊕2 is removed. | Correct the wiring. |



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| A.14 | Under voltage | A servo drive board fault occurred | Replace the servo drive. |
| | | The wrong alarm signal. ▲ | Modify the value of parameter Pn521 as 1. |
| A.15 | Regenerative resistor breakdown | Check for incorrect wiring or a disconnected wire in the regenerative resistor. | Correct the wiring for the external regenerative resistor. |
| | | The jumper of servo drive between B2 and B3 is removed. | Correct the wiring. |
| | | A servo drive fault occurred, such as regenerative transistor or internal regenerative resistor was breakdown. | Replace the servo drive. |
| | | Alarm occurred frequently, while The resistor is normal. ★ | Modify the value of parameter Pn515 as 3. |
| A.16 | Regeneration error detected | The generating state continued. | Select a proper regenerative resistance capacity, or reconsider the load and operation conditions. |
| | | The regenerative energy is excessive. | Select a proper regenerative resistance capacity, or reconsider the load and operation conditions. |
| | | The power supply is overvoltage. | Correct the input voltage. |
| | | A servo drive board fault occurred | Replace the servo drive. |
| A.17 | Resolver error | Resolver feedback fault occurred | Replace the servo motor. |
| | | A servo drive board fault occurred | Replace the servo drive. |
| | | After power on the drive, fault occurred | Connect and grounding the Pin50 (1CN) to earth. |

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| A.20 | Power lines open phase | The three-phase power supply wiring is incorrect. | Correct the power supply wiring. |
| | | The three-phase power supply is unbalanced. | Balance the power supply by changing phases. |
| | | A servo drive fault occurred. | Replace the servo drive, check the power supply voltage. |
| A.21 | Voltage fluctuation detected | The three-phase power supply wiring is incorrect. | Correct the power supply wiring. |
| | | One cycle of input voltage waveform lost. | Correct the input voltage, recommend utilizing voltage stabilizer. |
| | | A servo drive fault occurred. | Replace the servo drive, check the power supply voltage. |
| A.22 | Motor temperature sensor is break off | Encoder cable wiring is failed. | Correct the servo motor encoder cable. |
| | | Temperature sensor feedback signals lost. | Replace the servo motor |
| A.23 | Brake overcurrent alarm | Regenerative resistor resistance is too small | Replace the external resistor by higher resistance. |
| | | Regenerative circuit is failed | Replace the servo drive. |
| A.25 | U&V&W winding phase overcurrent | The servo motor wiring is incorrect or the connection is faulty. | correct the parameters of Pn840 and Pn005 |
| A.26 | | The servo motor over temperature and lead to demagnetization. | Correct the servo motor wiring. |
| A.27 | | A servo motor fault occurred. | Replace the servo drive. |
| A.41 | Reserved | Reserved | |
| A.42 | Motor model unmatched | The encoder wiring is incorrect or the connection is faulty. | Correct the encoder wiring. |
| | | The parameter setting for servo motor is incorrect. | Correct the setting of Pn005.3. |



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| A.43 | Drive model unmatched | A servo drive fault occurred. | Set Fn001 to initialize the parameter. |
| | | The parameter setting for servo drive is incorrect. | Correct the setting of Pn840.2. |
| A.45 * | Absolute encoder Multi turn information error | Multi turn information of encoder is faulty. | Set Fn010 to clear error. |
| | | An absolute encoder fault occurred. | If the alarm cannot be reset by setting Fn011, replace the encoder. |
| A.46 * | Encoder multi turn information overflow | Multi turn information of encoder is overflow | Set Fn010 to clear error. |
| | | An absolute encoder fault occurred. | If the alarm cannot be reset by setting Fn011, replace the encoder. |
| A.47 * | Absolute encoder battery error | Multi turn information of encoder is lost. | Set Fn010 to clear error. |
| | | The battery voltage is lower than the specified value 2.5V | Replace the battery, and then turn ON the power to the encoder. |
| A.48 | Absolute encoder battery error | The battery voltage is lower than the specified value 3.1V | Replace the battery, and then turn ON the power to the encoder. |
| | | The encoder cable does not have a battery inside. | Set Pn002.2 to 1, and change the absolute encoder into incremental mode. |
| A.50 | Encoder communicating timeout occurred | The parameter setting for encoder is incorrect. | Correct the setting of Pn840.0. |
| | | The encoder wiring is incorrect or the connection is faulty. | Correct the encoder wiring. |
| | | An encoder fault occurred. | Replace the servo motor. |
| | | Noise interference occurred on the signal line from encoder. | Take the measure against noise for the encoder wiring. |



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| A.51 | Encoder over speed | The servo motor runs at 100RPM without power supply. | Set Fn010 to clear error. |
| | | An encoder fault occurred. | Replace the servo motor. |
| A.52 | Encoder data error | Absolute state of encoder is faulty. | Set Fn011 to clear error. |
| | | An encoder fault occurred. | Replace the servo motor. |
| A.53 | Encoder data error | Calculation result of encoder is faulty. | Set Fn011 to clear error. |
| | | An encoder fault occurred. | Replace the servo motor. |
| A.54 | Encoder data error | The parity bit and cut-off bit of control field are faulty. | Clear and reset the alarm and restart the operation. |
| | | An encoder fault occurred. | Replace the servo motor. |
| A.55 | Encoder checksum error | A servo drive fault occurred. | Replace the servo drive. |
| | | An encoder fault occurred. | Replace the servo motor. |
| A.56 | Encoder data error | The cut-off bit of control field is faulty. | Clear and reset the alarm and restart the operation. |
| | | An encoder fault occurred. | Replace the servo motor. |
| A.58 | Encoder data error | Datum of EEPROM is empty. | Clear and reset the alarm and restart the operation. |
| | | An encoder fault occurred. | Replace the servo motor. |
| A.59 | Encoder data error | Data format of EEPROM is faulty. | Clear and reset the alarm, please refer to the guidance for encoder phase angle adjustment. |
| | | An encoder fault occurred. | Replace the servo motor. |
| A.60 | Communicate module undetected | The communicate module is incorrect. | Clear and reset the alarm and restart the operation. |
| | | The contact between the module and the servo drive is faulty. | Insert securely the connector. |
| | | A module fault occurred. | Replace the communication module. |



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| A.61 | Handshaking fault occurred | CPU of communication module is faulty. | Replace the communication module. |
| | | A servo drive fault occurred. | Replace the servo drive. |
| A.62 | Communicate fault occurred | Servo drive cannot receive cyclist data from communication module. | Check and fix the connection between servo drive and module. |
| | | A servo drive board fault occurred | Replace the servo drive. |
| A.63 | Module fault occurred | Communication module cannot receive response package from servo drive. | Replace the communication module. |
| | | A servo drive board fault occurred | Replace the servo drive. |
| A.64 | Connection dropping detected | The BUS connection is incorrect. | Correct the BUS wiring. |
| | | A module fault occurred. | Replace the communication module. |
| A.66 | CAN communicate faulty occurred | Noise interference occurred on the signal line from encoder. | Take the measure against noise for the encoder wiring. |
| | | A module fault occurred. | Replace the communication module. |
| A.67 | Receiving heartbeat timeout | The master station sends heartbeat time timeout | Check and fix the connections between servo drive and master station. |
| A.69 | Synchronization signal monitoring cycle is longer than setting | The filling time and the cycle of the synchronous signal does not match. | Correct the cycle time for synchronization |
| A.00 | Not an error | Normal status. | |

* If A.45,A.46,A.47,A.51 alarm occurred, please refer to the assistance function.(Fn010,Fn011)

★△ Only available for 7.5Kw, 11Kw and 15Kw drives.