Trauble shooting sumitomo excavator

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[Troubleshooting] Sumitomo excavator fault code fault code

Sumitomo series digging machine fault codes

7000 – P1 pressure sensor

7001 – P2 pressure sensor

7002 – N1 pressure sensor

7003N2– pressure sensor

7004– wear overload pressure sensor

7005– bottom pressure sensor wear

7006– rod pressure sensor

7020 — wear upper pressure sensor

7021 — rotary pressure sensor wear

Walking through the pressure sensor 7022–

7023– wear arm pressure sensor

7040– fuel level sensor

7041 — oil temperature sensor

7045– monitor thermistor

7060 — boom angle sensor

7061– arm angle sensor

7062– deviation angle sensor

7063 — back to the oil filter blockage pressure switch

7200– swing brake solenoid valve

7201– walking speed solenoid valve

7202 — boost solenoid valve

7203 — BZ walking alarm

7204– saving solenoid valve

7205 – REL charge pump stops

7206 — spare circuit return valve

7207– slewing brake release valve

7208 fan reverse solenoid valve

7209– air conditioning temperature signal output

7210 — Crane

7211– turning signals and bucket stop

7212– safety lock solenoid valve

7240 — pump output proportional valve

7241– pump flow proportional valve

7242 —- Fan proportional valve

7243 — big arm proportional valve

7244 — arm proportional valve

7245– deviation proportional valve

7400.7402.7403– temperature

7404– oil

7405.7406– Dorian backward pressure temperature

7420 — generator voltage

7421– level

7422– oil pressure

7423 — air filter

7424– back to the oil filter

7600 — CAN

7601– monitor communications

7602 — ECM communication

7603– Controller B Communications

7604– Controller S Communications

7605 — ECM

7606 — EEPROM

0087 — no pumping pressure

0088– rail pressure anomaly

0089– pumping high pressure

0090 — SCV drive system

0107 atmospheric pressure sensor (voltage at the end)

0108 atmospheric pressure sensor (high voltage)

0112 supercharged forward air temperature anomalies (voltage at the end)

0113 — booster forward air temperature anomalies (high voltage)

0117.0118 water temperature is too low or high

0182.0183 — fuel temperature

0192– rail pressure (low voltage)

0193– rail pressure (high voltage)

0201 — 0206 glib driver circuit breaker (corresponding to each cylinder)

0219– limit operation

After 0237.0238– boost pressure sensor voltage low or high

0335.0336– crankshaft position sensor system

0340.0341 — cam position sensor

0380– preheat sensor

0487 — EGR sensor

Host fault code list

(A) an electrical fault (input) [7000-7199]

Fault location fault codes determine the timing of the failure mode occurred prerequisite judgment recovery judgment

The conditions DTC display

P1 pressure sensor GND short / open 7000 ○ ignition switch is turned from no voltage ≦ 0.25 V 0.25 V <voltage <4.75 V

Supply short-circuit voltage ≧ 4.75 V

Pressure sensor P2 GND short / open 7001 ○ ignition switch is turned from no voltage ≦ 0.25 V 0.25 V <voltage <4.75 V

Supply short-circuit voltage ≧ 4.75 V

N1 pressure sensor GND short / open 7002 ○ ignition switch is turned from no voltage ≦ 0.25 V 0.25 V <voltage <4.75 V

Supply short-circuit voltage ≧ 4.75 V

N2 pressure sensor GND short / open 7003 ○ from the ignition switch is turned on without voltage ≦ 0.25 V 0.25 V <voltage <4.75 V

Supply short-circuit voltage ≧ 4.75 V

Overload pressure sensor GND short / open 7004 ○ Select the applicable regional EU voltage from the ignition switch is turned ≦ 0.25 V 0.25 V <voltage <4.75 V

Supply short-circuit voltage ≧ 4.75 V

Bottom pressure sensor GND short / open 7005 ○ choose a crane voltage ≦ 0.25 V 0.25 V <voltage <4.75 V from the ignition switch is turned

Supply short-circuit voltage ≧ 4.75 V

Pressure sensor GND link short / open 7006 ○ choose a crane voltage ≦ 0.25 V 0.25 V <voltage <4.75 V from the ignition switch is turned

Supply short-circuit voltage ≧ 4.75 V

The upper part of the body's pressure sensor GND short / open 7020 ○ ignition switch is turned from no voltage ≦ 0.25 V 0.25 V <voltage <4.75 V

Supply short-circuit voltage ≧ 4.75 V

Rotary Pressure Sensor GND short / open 7021 ○ ignition switch is turned from no voltage ≦ 0.25 V 0.25 V <voltage <4.75 V

Supply short-circuit voltage ≧ 4.75 V

Walking pressure sensor GND short / open 7022 ○ ignition switch is turned from no voltage ≦ 0.25 V 0.25 V <voltage <4.75 V

Supply short-circuit voltage ≧ 4.75 V

Arm off pressure sensor GND short / open 7023 ○ from the ignition switch no voltage ≦ 0.25 V 0.25 V <voltage <4.75 V

Supply short-circuit voltage ≧ 4.75 V

Fuel oil level sensor open from 7040 ○ no resistance after the ignition is turned ≧ 100Ω 2 Ω <resistance <100 Ω

Short-circuit resistance ≦ 2 Ω

Oil temperature sensor open 7041 ○ 3 minutes after the engine is started without resistance ≧ 67200Ω (voltage ≧ 4.93 V) 111Ω <resistance <67200 Ω 0.5 V <voltage <4.93V)

Short circuit from the ignition switch is turned resistance ≦ 111Ω (voltage ≦ 0.5 V)

Monitor thermistor (* 1) Open 7045 × no receipt from the ignition switch is turned fault bit is not received from the monitor from the monitor’s fault bit

Short circuit

Boom angle sensor GND short / open 7060 ○ choose a crane or anti-interference voltage ≦ 0.2 V 0.2 V <voltage <4.8 V from the ignition switch is turned

Short-circuit voltage ≧ 4.8 V power supply

Arm angle sensor GND short / open 7061 ○ choose a crane or anti-interference voltage ≦ 0.2 V 0.2 V <voltage <4.8 V from the ignition switch is turned

Short-circuit voltage ≧ 4.8 V power supply

Deviation angle sensor GND short / open 7062 ○ choose a crane or anti-interference voltage ≦ 0.2 V 0.2 V <voltage <4.8 V from the ignition switch is turned

Short-circuit voltage ≧ 4.8 V power supply

Back to the oil filter clogging pressure switch open after 7063 ○ from the ignition switch is turned to the front of the engine start without pressure switch off pressure switch open

Show “×” the project is not “abnormal electrical system” message. In addition, users no longer DTC screen display. However, DTC recorded in the maintenance screen (DIAG) in.

(2) electrical fault (output) [7200-7399]

Fault location fault codes determine the timing of the failure mode occurred prerequisite judgment recovery judgment

The conditions DTC display

Rotary brake solenoid valve open from 7200 ○ no output after the ignition is turned ≠ Output Monitor Output = Output Monitor

Short circuit

Walking speed solenoid valve open from 7201 ○ no output after the ignition is turned ≠ Output Monitor Output = Output Monitor

Short circuit

7202 ○ boost solenoid valve open after the ignition is turned from no output ≠ Output Monitor Output = Output Monitor

Short circuit

BZ walking alarm (* 1) Open 7203 × after turning the ignition switch from no output ≠ Output Monitor Output = Output Monitor

Short circuit

7204 ○ saving solenoid valve open after the ignition is turned from no output ≠ Output Monitor Output = Output Monitor

Short circuit

REL Open 7205 ○ charge pump stops after the ignition is turned from no output ≠ Output Monitor Output = Output Monitor

Short circuit

Spare oil return circuit from the solenoid valve open 7206 ○ no output after the ignition is turned ≠ Output Monitor Output = Output Monitor

Short circuit

Swing open from the solenoid valve open 7207 ○ no output after the ignition is turned ≠ Output Monitor Output = Output Monitor

Short circuit

Fans reverse solenoid valve open from 7208 ○ no output after the ignition is turned ≠ Output Monitor Output = Output Monitor

Short circuit

Air conditioning temperature signal output (* 1) Open 7209 × from the ignition switch is turned on no output ≠ Output Monitor Output = Output Monitor

Short circuit

BZ cranes open after 7210 ○ no output from the ignition switch is turned ≠ Output Monitor Output = Output Monitor

Short circuit

REL rotating lights and lock open 7211 ○ bucket from the ignition switch is turned on no output ≠ Output Monitor Output = Output Monitor

Short circuit

Lock rod from the solenoid valve open 7212 ○ no output after the ignition is turned ≠ Output Monitor Output = Output Monitor

Short circuit

Pump output proportional valve open without current ≦ 30 mA 30 mA after 7240 ○ engine start <current <3 A

Short-circuit current from the ignition switch is turned ≧ 3 A

Pump flow proportional valve open without current ≦ 30 mA 30 mA after 7241 ○ engine start <current <3 A

Short-circuit current from the ignition switch is turned ≧ 3 A

After the fan proportional valve open 7242 ○ engine start no current ≦ 30 mA 30 mA <current <3 A

Short-circuit current from the ignition switch is turned ≧ 3 A

After the big boom proportional valve open 7243 ○ engine start no current ≦ 30 mA 30 mA <current <3 A

Short-circuit current from the ignition switch is turned ≧ 3 A

After the arm proportional valve open 7244 ○ engine start no current ≦ 30 mA 30 mA <current <3 A

Short-circuit current from the ignition switch is turned ≧ 3 A

Deviation proportional valve open after the engine starts 7245 ○ no current ≦ 30 mA 30 mA <current <3 A

Short-circuit current from the ignition switch is turned ≧ 3 A

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(3) mechanical failure [7400-7599]

Fault location fault codes determine the timing of the failure mode occurred prerequisite judgment recovery judgment

The conditions DTC display

Abnormally high temperature 1 7400 ○ one minute after starting the engine coolant temperature sensor = normal CAN communication = normal ECM5 V supply voltage = normal temperature ≧ 105 ℃ temperature <105 ℃

Unusually high temperatures 2 7402 ○ temperature ≧ 110 ℃ temperature <105 ℃

Abnormal high temperature 3 7403 ○ temperature ≧ 120 ℃ temperature <120 ℃

7404 ○ abnormal high temperature oil 1 minute after starting the engine oil temperature sensor = normal oil temperature ≧ 95 ℃ temperature <95 ℃

Abnormally high temperature pressurized backward 1 7405 ○ supercharged engine start one minute after the last-air temperature sensor = normal CAN communication = normal ECM5 V supply voltage = normal pressurized air temperature ≧ 80 ℃ backward backward pressurized air temperature ≦ 70 ℃

Unusually high temperatures 2 7406 ○ booster backward temperature ≧ 90 ℃ temperature pressurized backward <90 ℃

No abnormal voltage, low voltage AC motor 7420 ○ 10 seconds after starting the engine pressure ≦ 10 V power generating pressure> 10 V

Coolant level is too low 7421 ○ no level switch is open level switch off the ignition switch is turned from

Low engine oil pressure after 7422 ○ abnormal engine start 30 seconds oil pressure sensor = normal CAN communication = normal ECM5 V supply voltage = normal pressure ≦ 40 kPa pressure> 10 40 kPa

Air filter clogged 7423 ○ 10 seconds after starting the engine without vacuum switch on the vacuum switch off

Back to the oil filter clogged 7424 ○ 10 seconds after starting the engine oil filter pressure switch back to normal pressure switch off pressure switch open

(4) mechanical failure [7600-7799]

Fault location fault codes determine the timing of the failure mode occurred prerequisite judgment recovery judgment

The conditions DTC display

CAN Bus Bus after 7600 ○ unusual open bus from the ignition switch without disconnecting or passive failure condition is not satisfied

Abnormal condition monitor communications receiver after the ignition switch from 7601 ○ no monitor is not open packets sent occurring not established

Conditions for receiving information packets sent Exception Monitor error occurred is not established

Communication ECM timeout 7602 ○ condition after the ignition is turned from no information has not issued ECM does not hold

Controller B Communications timeout 7603 ○ Choose from the ignition switch is turned on there is a crane or anti-interference controller B information has not issued condition is not satisfied

Conditions controller S communication timeout after 7604 ○ opened from the ignition switch S does not send a message without a controller not established occur

ECM mismatch 7605 ○ 10 seconds after starting the engine models only select models ≠ ECM calibration number invariably reply

EEPROM data anomalies 7606 × from the ignition switch is turned on without the last store to check ≠ The calculation checks and store the last inspection = The calculation checks and

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USA qumozheklj@gmail.com

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