

JLG Boom Lift Error Codes

116

Fault Message: ECT higher than expected stage 1
Description: Engine Coolant Temperature reading or estimate greater than the stage 1 limit when operating at a speed greater than defined in the diagnostic calibration.
Corrective Action: Sound audible warning or illuminate secondary warning lamp, disable adaptive learning fuel correction during active fault.

117

Fault Message: ECT Voltage Low
Description: Sensor voltage less than the limit defined in the diagnostic calibration.
Corrective Action: Sound audible warning or illuminate secondary warning lamp, disable adaptive learning fuel correction during active fault.

118

Fault Message: ECT Voltage High
Description: Sensor voltage higher than the limit defined in the diagnostic calibration.
Corrective Action: Sound audible warning or illuminate secondary warning lamp, disable adaptive learning fuel correction during active fault.

122

Fault Message: TPS 1 Low Voltage
Description: TPS sensor voltage lower than the limit defined in the diagnostic calibration.
Corrective Action: Sound audible warning or illuminate secondary warning lamp, shut down engine.

123

Fault Message: TPS 1 High Voltage
Description: TPS sensor voltage higher than the limit defined in the diagnostic calibration.
Corrective Action: Sound audible warning or illuminate secondary warning lamp, shut down engine.

217

Fault Message: ECT higher than expected stage 2
Description: Engine coolant temperature reading greater than the stage 2 limit when operating at a speed greater than defined.
Corrective Action: Sound audible warning or illuminate secondary warning lamp, disable adaptive learning fuel correction during active fault.

219

Fault Message: RPM higher than max allowed

Description: Engine speed greater than the max governor override speed as defined.

Corrective Action: Sound audible warning or illuminate secondary warning lamp, reduce throttle to limit speed.

336

Fault Message: Crank signal input noise

Description: Electrical noise or irregular crank pattern detected causing x number of crank resynchronization events

Corrective Action: Illuminate MIL and/or sound audible warning or illuminate

secondary warning lamp and disable fueling correction for remainder of key cycle.

337

Fault Message: Loss of Crank Input Signal

Description: loss of crankshaft position signal while valid camshaft position signals continue for x number of cam pulses.

Corrective Action: Illuminate MIL and/or sound audible warning or illuminate secondary warning lamp.

521

Fault Message: Oil pressure high

Description: Oil pressure is indicating high when the engine has been stopped for more than x seconds.

Corrective Action: Illuminate MIL and/or sound audible warning or illuminate secondary warning lamp, possibly configure for power derate 1 or low rev limit.

524

Fault Message: Oil pressure low

Description: Engine oil pressure lower than expected while engine has been running for a minimum amount of time

Corrective Action: Illuminate MIL and/or sound audible warning or illuminate

secondary warning lamp, generally configured to derate the engine and trigger an engine shutdown.

562

Fault Message: Battery voltage low
Description: Battery voltage to ECM less than x volts while the engine is operating at y RPM or greater
Corrective Action: Illuminate MIL and/or sound audible warning or illuminate secondary warning lamp, disable adaptive fueling correction for remainder of key cycle.

563

Fault Message: Battery voltage high
Description: Battery voltage to ECM greater than x volts while the engine is running.
Corrective Action: Illuminate MIL and/or sound audible warning or illuminate secondary warning lamp, disable adaptive fueling correction for remainder of key cycle.

642

Fault Message: Sensor supply voltage 1 low
Description: ECM 5 volt output is below the acceptable limit.
Corrective Action: Illuminate MIL and/or sound audible warning or illuminate secondary warning lamp.

643

Fault Message: Sensor supply voltage 1 high
Description: ECM 5 volt output is above the acceptable limit.
Corrective Action: Illuminate MIL and/or sound audible warning or illuminate secondary warning lamp.

1612

Fault Message: Microprocessor failure RTI 1
Description: Internal microprocessor error

1613

Fault Message: Microprocessor failure RTI 2
Description: Internal microprocessor error

1614

Fault Message: Microprocessor failure RTI 3
Description: Internal microprocessor error

1615

Fault Message: Microprocessor failure A/D
Description: Internal microprocessor error

1616

Fault Message: Microprocessor failure Interrupt

Description: Internal microprocessor error

1652

Fault Message: TPS1 loss of communications
Description: ECM is expecting to receive throttle position information from the throttle actuator and is not.
Corrective Action: Illuminate MIL and/or sound audible warning or illuminate secondary warning lamp. Shut down engine.

2111

Fault Message: Unable to reach lower TPS
Description: Throttle command is 20% less than throttle position for 200ms or longer.
Corrective Action: Engine shut down

2112

Fault Message: Unable to reach higher TPS
Description: Throttle command is 20% more than actual throttle position.
Corrective Action: Engine shut down

9999

Fault Message: TPS1 failsafe spring failure
Description: When the key is off, the ECM is expecting the failsafe spring in the actuator to return the throttle position to near 0%.
Corrective Action: Illuminate MIL and/or sound audible warning or illuminate secondary warning lamp. Govern the engine speed to a forced idle speed.

JLG Scissor Lift Error Codes**212**

Fault Message: Faulty Keyswitch
Description: Both platform and ground modes are selected simultaneously.
Check: Key switch function. Check wiring to key switch function.

221

Fault Message: Horn Permanently Selected

Description: The horn switch was closed during power-up in platform mode.

Check: Check if the horn is damaged, obstructed or jammed.

226

Fault Message: Accelerator Faulty

Description: The joystick signal is outside the acceptable range of 0.5V – 4.5V.

Check: Center joystick and check to see if a power cycle will clear DTC.

231

Fault Message: Function Problem – Lift Permanently Selected

Description: The ground control box lift switch was closed up or down, during power up in ground mode.

Check: Check if the lift switch is obstructed or jammed.

233

Fault Message: Function Problem – Brake Release Permanently Selected

Description: The manual brake release switch was closed during power-up.

Check: Check if brake release switch is obstructed or jammed.

251

Fault Message: Elev Angle Sensor Faulty

Description: Elevation angle sensor input voltage is outside the acceptable range of 0.10V – 4.50V.

Check: Check that the platform elevation sensor is securely mounted and undamaged. Check the elevation sensor wiring.

314

Fault Message: Auxiliary Circuit – Open Relay

Description: The auxiliary relay did not close when energized.

Check: Check the auxiliary relay coil and associated wiring.

441

Fault Message: Battery Voltage Too Low

Description: The power module momentarily measure battery voltage under 14.5V.

Check: Recharge batteries or check for damaged batteries.

775

Fault Message: Open Circuit Field Wiring

Description: Drive, steer, and lift prevented.

Check: The system module applied field current, but could regulate the desired current. The situation is caused by improper field wiring or a damaged motor.