

Error code	Decryption
111	ECM internal hardware error
115	No engine speed or position signal from camshaft sensor
121	No engine speed or position signal from crankshaft sensor
122 123	High (122) or low (123) voltage of DD boost (turbine)
131	High throttle throttle voltage
132	Low throttle throttle voltage
133 134	Throttle remote control sensor voltage high (133) or low (134)
135 141	High (135) or low (141) voltage DD oil
143	Extremely low oil pressure
144 145	High (144) or low (145) coolant temperature sensor voltage
146	High coolant temperature
151	Critically high coolant temperature
153 154	High (153) or low (154) intake manifold temperature sensor voltage
155	Extremely high temperature in the intake manifold
187	Short circuit power supply of engine sensors to ground
191	Short to ground of the air conditioning clutch drive sensor

195	Coolant Temperature Sensor Error
196	Coolant Level Sensor Error
197	Low coolant
211	Hyundai excavator specific fault code
212 213	High (212) or low (213) oil temperature sensor voltage
214	Increased oil temperature
221 222	Barometric pressure sensor high (221) or low (222) voltage
227	Shorting the power supply of the engine sensors to positive
234	Engine overspeed
235	Low coolant
241	No speed sensor signal
242	Failures in receiving a signal from speed sensors
243	Error in the electrical circuit for turning on the engine brake relay
245	Fan clutch solenoid problems
249 256	Atmospheric temperature sensor error
254 255	Fuel Solenoid Valve High (254) or Low (255) Voltage
257	Mechanical failure of the fuel solenoid valve
261	Maximum fuel temperature rise
263	High (263) or low (265) fuel temperature sensor voltage

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264	High or low voltage in the signal circuit of the fuel temperature sensor inside the pump controller.
271 272	Low (271) or high (272) fuel pump boost sensor voltage
281	Fuel pump drive error
283	High (283) or low (284) motor speed sensor voltage
285 286	J1939 Data Line Problems
287	Accelerator pedal malfunction
288	The communication between the ECU and the gearbox is broken
292 293 294 295 296 297 298	Atmospheric pressure sensor error
319	Internal clock power error
322	Malfunctions of an electrocircuit of a nozzle of 1 cylinder
323	Malfunctions of the electrical circuit of the nozzle of the 5th cylinder
324	Malfunctions of the electrical circuit of the nozzle 3 cylinders
325	Malfunctions of the electrical circuit of the nozzle of the 6th cylinder
331	Malfunctions of an electrocircuit of a nozzle of 2 cylinders
332	Malfunctions of the electrical circuit of the nozzle 4 cylinders

334	Incorrect coolant temperature data
343	Engine ECU error
351	
352	Low (352) or high (386) voltage of the power supply circuit of the pressure sensors
386	
415	Low oil pressure
418	Water in the fuel system
428	High (428) or low (429) voltage of the water sensor in the fuel system
429	
431	Voltage at idle contacts
432	Throttle is in idle position
433	Boost pressure mismatch with engine operation parameters
434	Error saving trip data to permanent memory
435	Malfunction DD oil in the engine
441	Low (441) or high (442) battery voltage
442	
488	High intake manifold temperature
517	Mechanical failure of the fuel control valve
524	High Speed Governor Switch Error
528	Torque curve selection switch error
546	Fuel DD error
547	
555	High crankcase pressure

556	Excessively high crankcase pressure
584 585	High (584) or low (585) voltage in the starter relay
596 597	High (596) or low (597) battery charging voltage
598	Critically low battery charging voltage
599	Input sensor error with engine stop
611	Protective shutdown of the engine
649	Need to change oil
686	Turbine speed sensor error
687	Turbine speed reduction
689	Irregular receipt of data from the crankshaft position sensor
697 698	ECM internal temperature sensor error
731	Timing error between crankshaft and camshaft
778	Crankshaft Position Sensor Error
1117	No power when ignition is turned on
1239 1241 1242	Faulty gas pedal
1665 1666 1667	Exhaust gas cleaning temperature sensor error
1895	Recirculation valve sensor error

1896	
1935	Gas recirculation error
1943	Critically low atmospheric pressure
2182 2183	Primary brake circuit failure
2195	Accessory error
2265 2266	High (2265) or low (2266) lift pump sensor voltage
2321	Engine Timing Circuit Error
2322	Crankshaft Position Sensor Signal Error
2345	Incorrect change in turbine speed
2346	Unacceptable increase in air temperature at the turbine inlet
2347	Unacceptable increase in air at the outlet of the turbine
2377	Fan control error
2384 2385	Low (2384) or high (2385) voltage on the VGT drive sensor
2387	Turbine control error
2449	Turbine sensor needs to be calibrated

OTHER FAULTS

Each Hyundai excavator error that is not related to the operation of the motor is also displayed on the screen and recorded in the trouble log.

Error code	Decryption
1	Short circuit in the acceleration actuator system

2	Potentiometer circuit shorted to Vcc(5V) or battery +
3	Short circuit in pump EPPR valve system
4	Short circuit in boom down EPPR valve system
5	Short circuit in the speed solenoid system
6	Short circuit in the electromagnetic power boost system
7	Short circuit in the maximum flow solenoid system
10	Short circuit in the hour meter system
eleven	Accelerator circuit shorted to Vcc(5V) or battery +
12	The DD R1 circuit is closed to the power line (24V)
13	The DD R2 circuit is closed to the power line (24V)
14	The DD R3 circuit is closed to the power line (24V)
15	Boom down pressure circuit shorted to power (24V)
16	Accelerator drive circuit open or shorted to ground
17	Potentiometer circuit open or shorted to ground
18	Pump EPPR valve circuit open or shorted to ground
19	Boom down EPPR valve circuit open or shorted to ground
20	Ground speed solenoid circuit open or shorted to ground
21	Power boost solenoid circuit open or shorted to ground
22	Maximum flow solenoid circuit is open or shorted to ground
25	Hour meter circuit open or shorted to ground
26	Accelerator circuit open or shorted to ground
27	DD P1 circuit is open or shorted to ground

28	DD P2 circuit is open or shorted to ground
29	DD P3 circuit is open or shorted to ground
thirty	Boom lowering DD circuit is open or shorted to ground
31	Engine preheater circuit open or shorted to ground
32	Motion buzzer circuit open or shorted to ground
33	Alternator circuit open or shorted to ground
34	Controller input voltage below 18V
35	Controller input voltage is higher than 38V
36	Cluster communication error
37	Engine speed sensor circuit open or shorted to ground
38	Restart protection relay circuit open or shorted to ground
39	Accel actuator does not stop at target position
40	The difference between the set speed and the actual speed is more than 500 rpm.
41	Hydraulic oil temperature sensor circuit shorted to ground
42	Fuel level sensor circuit shorted to ground
43	Coolant temperature sensor circuit shorted to ground
44	The DD boom lifting circuit is closed to the power line (24 V)
45	Hydraulic oil temperature sensor circuit open or shorted to battery
46	Fuel level sensor circuit open or shorted to + battery
47	Coolant Temperature Sensor Circuit Open or Shorted to + Battery
48	Boom lift DD circuit is open or shorted to ground
49	Engine preheater circuit shorted to + battery

51	Heavy Duty Solenoid Circuit Open or Shorted to Ground
56	Traffic alarm buzzer circuit shorted to battery voltage
58	Heavy duty solenoid circuit shorted to battery

The error codes from the table below indicate a high or low voltage, a data error, or a short circuit in the corresponding sensor.

Error code	Sensor
101	Hydraulic oil temperatures
1050	Idler working device
1080	Propulsion devices (idling)
1200	Main pump pressure (P1)
1210	Main pump pressure (P2)
1220	Overload pressure
1230, 1240	Negative feedback pressure
1250	Pilot pressure (P3)
1270	Boom pressure
1330	Bucket pressure