

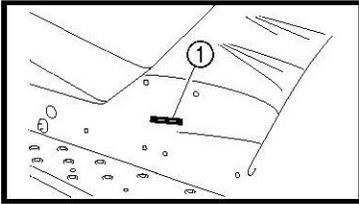


GENERAL INFORMATION

MACHINE IDENTIFICATION

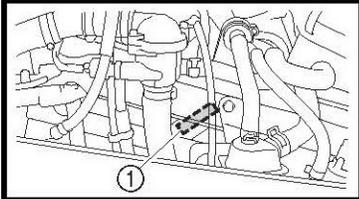
FRAME SERIAL NUMBER

The frame serial number ① is located on the right-hand side of the frame (just below the front of the seat).



ENGINE SERIAL NUMBER

The engine serial number ① is located on the right-hand side of the crankcase.



NOTE:

Designs and specifications are subject to change without notice.

Yamaha Snowmobile Fault Codes



right click to save

Yamaha Snowmobile Fault Code List

This chart is for informational purposes only! For the exact codes, check your sled's service manual.

Error code/ Fault Code	Sensor	Symptom	Launch	Riding	Self Diagn. Code	Measurements	Indications
12	Crankshaft sensor	Abnormal crankshaft sensor signal	No	No	—		
13	Intake air pressure sensor No. 1 (1, 2 and 3 cylinders)	Open or short circuit	Yes	Yes	D:03	Pressure measurement of incoming and atmospheric air	Atmospheric pressure or less than atmospheric
14	Intake air pressure sensor No. 1 (1, 2 and 3 cylinders)	Hose system malfunction (clogged or disconnected)	Yes	Yes	D:03	Pressure measurement of incoming and atmospheric air	Atmospheric pressure or less than atmospheric
15	Throttle position sensor	Open or short circuit	Yes	Yes	D:01	Throttle angle	0-125 (15-18 fully open 94-100 completely closed)
16	Throttle position sensor	Throttle jam	Yes	Yes	D:01	Throttle angle	0-125 (15-18 fully open 94-100 completely closed)
21	Coolant temperature sensor	Open or short circuit	Yes	Yes	D:06	Coolant temperature measurement	Minimum value -30
22	Intake air temperature sensor	Open or short circuit	Yes	Yes	D:05	Measurement of air temperature in the air filter	Minimum value -30
25	Intake air pressure sensor No. 2 (1 cylinder)	Open or short circuit	Yes	Yes	D:04	Pressure measurement of incoming and atmospheric air	Atmospheric pressure or less than atmospheric

26	Intake air pressure sensor No. 2 (1 cylinder)	Hose system malfunction (clogged or disconnected)	Yes	Yes	D:04	Pressure measurement of incoming and atmospheric air	Atmospheric pressure or less than atmospheric
30	Oil pressure reduction	Engine will stop when pressure build-up is detected	No	No	–		
33	Ignition coil (1 cylinder)	Ignition coil primary wire	Depending on the number of idle cylinders	Depending on the number of idle cylinders	D:30	Ignition spark test	After switching on, there will be 5 sparks on the candle and a blinking lamp will blink 5 times
34	Ignition coil (2 cylinder)	Ignition coil primary wire	Depending on the number of idle cylinders	Depending on the number of idle cylinders	D:31	Ignition spark test	After switching on, there will be 5 sparks on the candle and a blinking lamp will blink 5 times
35	Ignition coil (3 cylinder)	Ignition coil primary wire	Depending on the number of idle cylinders	Depending on the number of idle cylinders	D:32	Ignition spark test	After switching on, there will be 5 sparks on the candle and a blinking lamp will blink 5 times
37	Idle speed control valve	High engine idle	Yes (no if the valve is stuck in the closed position)	Yes	D:54	Idle valve control	
42	Speed sensor	Abnormal sensor signal	Yes	Yes	D:07	Pulse speed measurement	0-999 (after 999 is reset to 0) is the norm when intentions appear in order?
43	Fuel system voltage	Electrical power for fuel injectors and fuel pump	Depending on conditions	Depending on conditions	D:09	Fuel supply voltage measurement	0-18.7V normal – 12

44	CO level adjustment error	CO error detected	Yes	Yes	D:60		Shows the number of the faulty cylinder
46	Snowmobile power supply error (voltage monitoring)	The power of the ECU (computer) is not normal	Yes	Yes	–		
50	ECU memory error	Computer error	No	No	–		
81	Handle heating	Open or short circuit	Yes	Yes	D:57	Handle heating test	
83	Gas trigger	Open or short circuit	Yes	Yes	D:27	Gas trigger heating test	
84	T.O.R.S	Engine block alarm system malfunction	Yes	No	D:01	Throttle angle	0-125 (15-18 fully open 94-100 completely closed)
84	T.O.R.S	Engine block alarm system malfunction	Yes	No	D:07	Pulse speed measurement	0-999 (after 999 is reset to 0) is the norm when intentions appear in order?
84	T.O.R.S	Engine block alarm system malfunction	Yes	No	D:24	Throttle position	On – open off – closed
85	Oil pressure sensor	Open circuit	Yes	Yes	–		
ER-1	Internal fault ECU	No signal from computer	No	No	–		
ER-2	Internal fault ECU	No signal from the computer for the specified time	No	No	–		
IS-3	Internal fault ECU	The data from the computer is not correct	No	No	–		

ER-4	Internal fault ECU	No data from the measuring device	No	No	–	
					D:36 d:37 d:38	Check 1, 2 and 3 injectors
						After switching on, the injector will work 5 times (checked by ear)
					D:50	Injection system check
						After switching on, the injectors will work 5 times (checked by ear)
					D:52	Lighting test
						Includes lighting
					D:59	Checking passenger handle heating
					D:61	Error history
						Shows error codes 12-85
					D:62	Erasing error history
						Shows the number of errors 00-23
					D:70	Software control code
						00-255

How to Read Yamaha Snowmobile Fault Codes

Checking the fault code on this chart can only give you a basic idea of the issue. So, if you want to dig deeper, you need to read the fault code with a unique type of software that provides you with a tremendous amount of information on the malfunction.

Generally speaking, you can read the fault codes on your Yamaha snowmobile in two ways. One of your options is to take your sled to an authorized dealer who can read the fault codes for you. If you don't want to transport your sled to a dealership, your other choice is to invest in diagnostic software.

Let's drill into the details and see how it works!

Reading Fault Codes on Modern Yamaha Sleds

If you have a modern Yamaha sled with onboard diagnostic ports, you can read the fault codes with a unique tool, known as Y.S.D.T. (Yamaha Snowmobile Diagnostic Tool). As the name suggests, this tool is designed to test and diagnose the computer and related components on Yamaha snowmobiles.

The Y.S.D.T. tool can provide you very valuable information such as:

- Fault codes (a.k.a. DCT – Diagnostic Trouble Codes)
- EFI (Electronic Fuel Injection) data
- Sensor data
- Engine controller identification information
- Offline and online capability
- Live updates

The diagnostic tool comes as a kit with the software and interface hardware, including the diagnostic cable and the harness. How do you set it up?

1. As a first step, you have to install the software on a computer, to which the sled's diagnostic port has to be connected.
2. Next, plug the diagnostic cable's receiver end into the Y.S.D.T. interface hardware, then plug the other end of the cable into the diagnostic connector of the sled.
3. As a final step, you have to connect the interface hardware to the computer with a USB cable.
4. If the software is running, a window will appear when you connect the cable to the machine.

Once you've logged into the software, you can find out about the malfunction and conduct some tests on your sled.

Besides the Y.S.D.T, if you do your research you may find some aftermarket snowmobile diagnostic tools that are compatible with your sled.

Reading Fault Codes on Vintage Yamaha Sleds

If you have an older Yamaha sled that doesn't feature diagnostic ports, it won't be compatible with the Y.S.D.T. tool. But don't worry, as older sleds feature a built-in system designed to inform you about the fault codes.

The fault codes are only displayed on the dashboard or through the check engine light on these sleds. This means that on most older machines, the check engine light is designed to flash in a specific sequence that can give you the fault code.

To decode the flashing check engine light, you should check your sled's manual.

Here's an example how a flashing fault code looks on a Yamaha snowmobile:

How to Clear Yamaha Snowmobile Fault Codes

If you have the problems on your sled have been repaired, you probably want to know how to clear the fault codes without taking your sled to the dealer.

For your convenience, we've listed a step-by-step guide on how to clear Yamaha snowmobile fault codes:

1. Hold the *Reset* and the *Select* buttons down.
2. Turn on the ignition key.

3. Keep holding the buttons down for a few seconds until "*Diag*" pops up.
4. Release the two buttons.
5. Depress and hold down the *Reset* and the *Select* buttons again until a number appears on the display.
6. Use the *Select* button to scroll through the numbers until you find the number 61.
7. #61 is the "*Error history*," and shows which error codes have appeared.
8. Slide to #62 with the *Select* button.
9. #62 is the "*Erasing error history*," which lets you know the number of errors.
10. If this number is not zero, on #62, press the hand warmer button back to zero.
11. Shut the ignition off, wait a couple of seconds, then turn it on again.
12. If the malfunction causing the fault code is no longer present, the codes won't be displayed any longer.

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