

Table 4

(Table 4, contd)

Diagnostic Flash Code or Engine Performance Relationship							
Diagnostic Flash Code	Effect On Engine Performance ⁽¹⁾				Suggested Action of the Operator		
	Engine Misfire	Low Power	Reduced Engine Speed	Engine Shutdown	Shut Down the Engine ⁽²⁾	Service ⁽³⁾	Schedule Service ASAP ⁽⁴⁾
46	Low Oil Pressure Warning		X	X	X	X	
47	Idle or PTO Shutdown Occurrence			X			
51	Intermittent Battery Power to ECM	X	X	X		X	
55	No Detected Faults						
56	Check Customer or System Parameters		X	X			X
	Check Transmission Customer Parameters						
59	Incorrect Engine Software						X
61	High Coolant Temperature Warning		X		X	X	
62	Low Coolant Level Warning		X		X	X	
64	High Intake Manifold Air Temperature Warning						X

(continued)

66
Operation Section
Engine Diagnostics

(Table 4, contd)

Diagnostic Flash Code or Engine Performance Relationship							
Diagnostic Flash Code	Effect On Engine Performance ⁽¹⁾				Suggested Action of the Operator		
	Engine Misfire	Low Power	Reduced Engine Speed	Engine Shutdown	Shut Down the Engine ⁽²⁾	Service ⁽³⁾	Schedule Service ASAP ⁽⁴⁾
65	High Fuel Temperature Warning						X
66	Auxiliary Output # 6 Fault						X
67	Auxiliary Output #7 Fault						X
68	Transmission Not Responding						X
69	Multifunction No. 1 Output Fault						X
71	Ignition Keyswitch Fault						X
72	Cylinder 1 or 2 Fault	X	X			X	
73	Cylinder 3 or 4 Fault	X	X			X	
74	Cylinder 5 or 6 Fault	X	X			X	
92	Intake Valve Actuator 1 or 2 Fault					X	
93	Intake Valve Actuator 3 or 4 Fault					X	

(continued)

67
Operation Section
Engine Diagnostics

(Table 4, contd)

Diagnostic Flash Code or Engine Performance Relationship							
Diagnostic Flash Code		Effect On Engine Performance ⁽¹⁾				Suggested Action of the Operator	
		Engine Misfire	Low Power	Reduced Engine Speed	Engine Shutdown	Shut Down the Engine ⁽²⁾	Service ⁽³⁾
94	Intake Valve Actuator 5 or 6 Fault					X	
95	Intake Valve Actuation Oil Pressure Voltage Fault						X
97	Intake Valve Actuation System Oil Pressure Solenoid Current Fault						X
98	Engine Coolant Diverter Solenoid Fault						X

- (1) An "X" indicates that the effect on engine performance may occur, if the code is active. This depends on the exact failure.
- (2) Shut Down the Engine: Operate the engine cautiously. Get immediate service. Severe engine damage may result.
- (3) Service: The operator should go to the nearest qualified service facility.
- (4) Schedule Service: When it is convenient for the operator, the problem should be investigated.
- (5) When the diagnostic flash code is active, the effectiveness of the Engine Monitoring feature is reduced.
- (6) The system may be affected by these Diagnostic Flash Codes, only under specific environmental conditions. This includes engine start-up at cold temperature, cold weather operation at high altitudes, etc.

For further information or assistance for repair, consult an authorized Caterpillar dealer.

ECM Snapshot

SMCS Code: 1901

The ECM can record a snapshot of the engine parameters and vehicle parameters. The snapshot records the parameters for a period of 13 seconds that surrounds the event, 9 seconds before the trigger and 4 seconds after the trigger. A technician can use a service tool in order to view this snapshot information.

Triggering Snapshot Information

An operator can aid in the troubleshooting of intermittent problems by taking a "snapshot" when the problem is experienced. A snapshot can be triggered by using the Cruise Control Set/Resume Switch. Use the following procedure in order to perform this function:

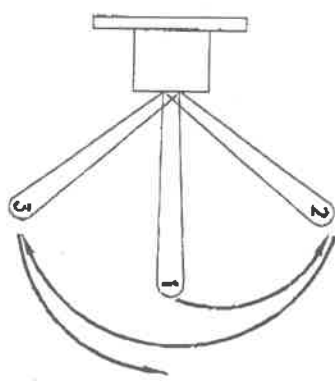


Illustration 21
 (1) OFF position
 (2) SET position
 (3) RESUME position

1. Toggle the switch quickly from the OFF position (1) to the SET position (2).