

Subject

Underhood Error Codes and Symptoms Except "G" Systems

System or Parts affected

- Underhood70 (V900xxx)
- Underhood150 (V91xxxx)

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Overview

General error codes, symptoms and trouble shooting.

Identifying your System

If you need to call VMAC Technical Support we will ask for a System ID or Compressor Serial Number.

The System ID (**Preferred**) can normally be found on the Radiator Cross Member in front of the Air Filter Box. Figure 1

The Compressor Serial Number can normally be found on the compressor itself behind the clutch pulley. Figure 2



Figure 1



Figure 2

Retrieving Logged Error Messages

How to retrieve logged error messages:

- Turn key ON. Do not start engine.
- Press and hold "OFF" button until "DIAGNOSTICS" is displayed.
- Press "OFF" to scroll down. Press "ON" to scroll up.

The tables below represent the lines that will be shown on the control box display. Completely fill in all of the blanks on the following tables. (Figure 3 provides an example of an error message)

Document	Version	Department	Revision Details	Revised by	Tech	Engineering	Implemented
EXT-VR-010	A	Tech	Document Release	SP 19 Aug 2015	RF 20 Aug 2015	N/A	SP 26 Aug 2015

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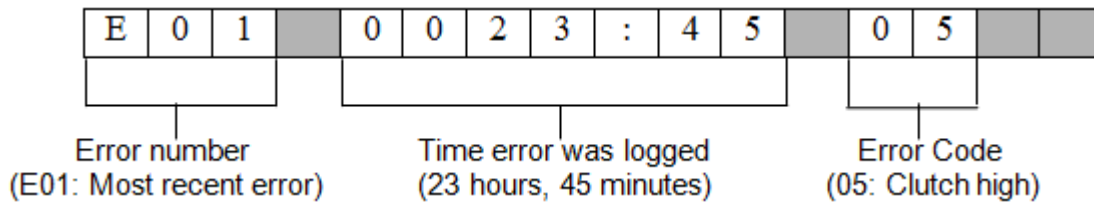


Figure 3

Name: _____
 Company: _____
 Date: _____

Phone#: _____
 Email/Fax#: _____

HRS→									
------	--	--	--	--	--	--	--	--	--

ERRORS→	E	0	1										
	E	0	2										
	E	0	3										
	E	0	4										
	E	0	5										
	E	0	6										
	E	0	7										
	E	0	8										
	E	0	9										
	E	1	0										

SERVICE→ TIMES	S	0	1										
	S	0	2										
	S	0	3										
	S	0	4										
	S	0	5										
	S	0	6										
	S	0	7										
	S	0	8										
	S	0	9										
	S	1	0										

When you have reached the end, "NO SVC NEEDED" will be displayed.
 Email completed sheet to techsupport@vmacair.com or fax to (250) 740-3202. A clear picture of this sheet can be emailed or faxed to us if this is easier.

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Warning/Information Messages

Warning/Information Message			Warning/Information Description	Compressor State
1	HRS:XXXX:XX		Main Screen hour meter	On/Off
2	Park Brake		(Park Brake is not applied or bad signal)	Off
3	HRS:XXXX200HR SVC		(200HR service is needed)	On/Off
4	HRS:XXXX400HR SVC		(400HR service is needed)	On/Off
5	COMP TOO COLD		Compressor too cold for operation	On
6	TEMP XXXF/XXXC		(Displays elevated temperature 130°C/266°F to 150°C/300°F)	On/Off
7	Wait xx Seconds		A 30 second delay to allow for compressed air blow down	Off

Error Messages

Error Code	Display	Fault	LED Code	Possible Problem(s):
01	OVER TEMP	Compressor is too hot	RED LED ON	<ul style="list-style-type: none"> Low compressor oil level. Faulty or crushed cooler lines. Exceed cooling capacity of compressor cooling system. OEM changes in cooling. Non- standard application.
02	TEMP PROBE SHORT	Short to ground in temp probe circuit	Flash code1 RED LED	<ul style="list-style-type: none"> Faulty temp probe. Crushed temp probe wires. Pinched or bared wires that are grounded.

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03	TEMP PROBE OPEN	Open circuit in temp probe circuit	Flash code1 RED LED	<ul style="list-style-type: none"> Faulty temp probe. Broken temp probe wires. Unconnected temp probe.
04	BATTERY LOW	A battery voltage less than 11V has been detected	RED LED ON	<ul style="list-style-type: none"> Faulty power line connection. Bad or intermittent fuse. Broken or poorly crimped connectors. Truck charging system problems. Ensure VMAC Control box is sole device on 12v supply wire.
05	CLUTCH HIGH	Too high of current draw on clutch 5-10A	Flash code 2 RED LED	<ul style="list-style-type: none"> Faulty clutch. Broken or pinched clutch wire.
06	CLUTCH LOW	Too low of current draw on clutch <2A	RED LED ON	<ul style="list-style-type: none"> Faulty clutch. Broken or pinched clutch wire. Disconnected clutch wire.
07	CLUTCH SHORT	Too high of current draw on clutch >10A	Flash code 2 RED LED	<ul style="list-style-type: none"> Faulty clutch. Shorted to ground or pinched clutch wire.

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