Technical Support

Subject
DTM Error Codes

SYSTEM OR PARTS AFFECTED

- All Direct Transmission Mount (DTM and DTM-H) Systems

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OVERVIEW

VMAC's Direct Transmission Mount compressor systems include a control box that will automatically display warning and information messages. The control box also gives access to a diagnostic mode that can be entered to retrieve stored error codes and service intervals.

Warning and Information Messages

During operation the following messages may display to inform the operator of system status.

Warning/Information Message	Warning/Information Description	Compressor State
HRS:XXXX:XX	Main screen hour meter.	On/Off.
Park Brake	Park brake is not applied or bad signal	Off.
HRS:XXXX200HRSVC	200HR service is needed.	On/Off.
HRS:XXXX400HRSVC	400HR service is needed.	On/Off.
COMP TOO COLD	Compressor too cold for operation.	On.
TEMP XXXF/XXXC	Displays elevated temperature 130°C (266°F) to 150°C (300°F).	On/Off.
Wait xx Seconds	A 30 second delay to allow for compressed air blow down.	Off.

Diagnostic Mode - Accessing Error Codes

To access the diagnostic mode and retrieve stored error codes, perform the following steps:

- Turn the vehicle ignition "ON" but do not start the engine
- Press and hold the "OFF" button (Figure 1) on the Control Box until "DIAGNOSTICS" is displayed.
- Press "OFF" button to scroll down. Press the "ON" button to scroll up.
- To exit diagnostic mode, press both the "OFF" and "ON" buttons simultaneously.

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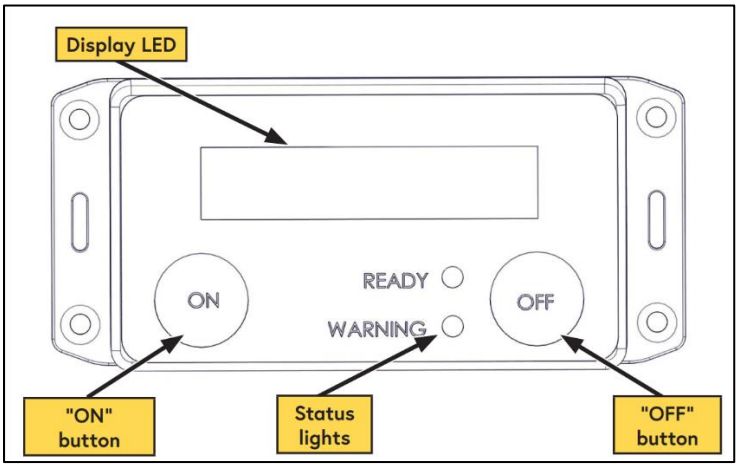

Figure 1

A maximum of 10 error codes will be saved. After 10 errors have occurred, any additional error code will bump the oldest code from the system, allowing only the most recent codes to be available for retrieval.

When troubleshooting, keep a record of each trouble code that displays, in the order of occurrence, for reference.
Error codes display in the following format (Figure 2).

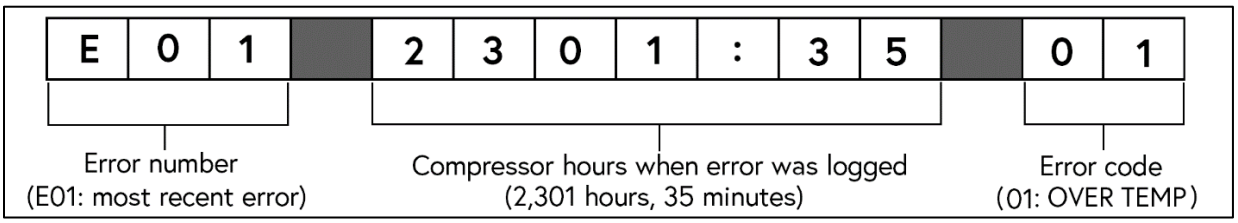

Figure 2

TROUBLE SHOOTING

There are 7 possible error codes in the DTM system.

Error Code	Display	Fault	Possible Problem(s)
01	OVER TEMP	Compressor is too hot	• Low compressor oil level. • Faulty or crushed cooler hoses. • Exceeded cooling capacity of the compressor cooling system • OEM changes in cooling. • Non-standard application.
02	TEMP PROBESHORT	Compressor temperature probe wires shorted or failed.	• Faulty temperature probe • Crushed temperature probe wires. • Pinched or bare wires that are • grounded
03	TEMP PROBE OPEN	Compressor temperature probe disconnected or failed	• Disconnected temperature probe • Faulty temperature probe • Broken temperature probe wires

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04	BATTERY LOW.	Vehicle battery voltage detected is less than 11 V	• Faulty power wire connection • Bad fuse • Broken or poorly crimped electrical connectors. • Vehicle charging system issues
05	SOLENOID HIGH	Current draw on the solenoid is too high (4 A – 6 A)	• Faulty PTO solenoid • Broken or pinched solenoid wire
06	SOLENOID LOW	Current draw on the solenoid is too low (below 0.5 A)	• Faulty PTO solenoid • Broken or pinched solenoid wire • Disconnected solenoid wire
07	SOLENOID SHORT	Current draw on the solenoid is too high (above 6 A).	• Faulty PTO solenoid • Solenoid wire shorted to ground or pinched

For more information, consult your VMAC Owner's Manual:

DTM:
Transmission Mounted Air Compressor (DTM) Owner's Manual

DTM-H
Transmission Mounted Air Compressor with Hydraulic Pump (DTM – H) Owner's Manual

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