FAST ENGINE TREND MONITORING SYSTEM - TROUBLESHOOTING

1. General

- A. This section gives troubleshooting information for the Fast Engine Trend Monitoring System (FAST). The troubleshooting data given in this section refers to the startup of the FAST system. Also, this section supplies many troubleshooting procedures for errors in the log file that may be found in the MonitorTM program and for crew alert system messages (CAS) that are shown on the primary flight display (PFD) CAS message window.
- B. For troubleshooting airplane wiring refer to the Model 208 Wiring Diagram Manual. For the procedures to read and download FAST processor data refer to Fast Engine Trend Monitoring System Adjustment/Test.
- C. If the system starts successfully, but other issues continue, contact Cessna Customer Care for assistance; (316) 517-5800.
- D. For a list of tools and equipment needed for FAST system maintenance refer to Engine Indicating General, Tools and Equipment .

2. System Troubleshooting

- A. There is an extensive set of troubleshooting charts for some of the most common problems for the FAST system. Refer to Table 101 or Table 102 for troubleshooting procedures applicable to the FAST system fault.
- B. System Indications (Engine Off) Troubleshooting Procedures

Table 101. System Indications (Engine Off)

FAULT CONDITION	REFER TO:
The ETM FAULT CAS message is shown.	Figure 101
The PREV EXCEED CAS message from a previous flight is shown.	Figure 102

C. System Start-Up and Communication Troubleshooting

- (1) Monitor the CAS messages while the avionics system starts up.
 - (a) Make sure that after the avionics system starts up, ETM CAPTURE and PREV EXCEED messages are not shown.
 - NOTE: If ETM CAPTURE and PREV EXCEED messages are shown after the log is cleared, then the processor did not finish the start up process.

Table 102. System Start-Up and Communication

FAULT CONDITION	REFER TO:	
The EMT processor is not energized.	Figure 103	
The ETM processor does not communicate with the lap top	Figure 104	
The ETM processor live data monitoring is not functioning correctly.	Figure 105	
There are transmit/receive errors between the ETM processor and the Garmin integrated avionics system.	Figure 106	
The GSM antenna is not transmitting.	Figure 107	
The ETM processor Test Monitor Transmission test is not functioning.	Figure 108	
Creep Fault Flow Diagram.	Figure 109	
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3. System Troubleshooting Charts



Figure 101 : Sheet 1 : ETM FAULT CAS Message Troubleshooting







Figure 103 : Sheet 1 : ETM Processor Power Troubleshooting





Figure 104 : Sheet 1 : ETM Processor Communication Troubleshooting



Figure 104 : Sheet 2 : ETM Processor Communication Troubleshooting









Figure 106 : Sheet 1 : ETM Processor Transmission and Receive Errors Troubleshooting





Figure 108 : Sheet 1 : Test Monitor Transmission Troubleshooting



Figure 108 : Sheet 2 : Test Monitor Transmission Troubleshooting

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Figure 108 : Sheet 4 : Test Monitor Transmission Troubleshooting









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Figure 108 : Sheet 7 : Test Monitor Transmission Troubleshooting



Figure 109 : Sheet 1 : Creep Fault Troubleshooting