



DIAGNOSTICS MODULE 3 INDEX





- TASK 1** USE OF TURBODOC TO FIND THE PROBLEM FOR A READ OUT CODE.
- TASK 2** USE OF TURBODOC TO FIND OUT WHAT HAPPENED WHEN THE MALFUNCTION INDICATOR LIGHT ILLUMINATED.
- USE OF TURBODOC TO FIND INFORMATION ON REPAIR OF MALFUNCTION INDICATOR LIGHT.
- TASK 3** USE OF TURBODOC AND TURBOSEARCH TO FIND OUT WHAT SWITCHES MIGHT BE INVOLVED IN THE DIAGNOSIS OF A MALFUNCTIONING ALARMSTAT.
- TASK 4** USE OF TURBODOC TO DETERMINE CAUSE AND REPAIR OF THE ETHER START SYSTEM NOT WORKING.
- USE OF TURBODOC TO DETERMINE THE LOCATION OF A PART AND ITS REPLACEMENT NUMBER.
- TASK 5** USE OF TURBODOC TO DETERMINE WHY HEADLIGHTS ARE NOT WORKING.

FLEETCROSS TRAINING
MODULE 3
DIAGNOSTICS
TASK 1

This example demonstrates diagnostic and troubleshooting procedures to determine the cause of a problem, then determine the location and part number of the part that fixes it.

TASK 1: THE ENGINE WARNING LIGHT CAME ON IN LEA NUMBER 6033-4002, WHICH HAS A DT466E ENGINE. THE FLASH CODE READOUT WAS 121. WHAT PROBLEM IS THIS READOUT CODE?

TO FIND THE PROBLEM FOR THIS READOUT CODE



- Click* **TurboDoc** 
- Enter* **LEA NUMBER 6033-4002 AND PRESS ENTER.**
- Click* ALL MANUALS IN THE VEHICLE SYSTEM WINDOW.
- Double Click* **DIAGNOSTICS – DT466E (W/CEC).**
- Click* SECTION 3.2: FLASH CODE CIRCUIT INDEX.
- Click* **FLASH CODE CIRCUIT INDEX**  OR THUMBNAIL PAGE 2.
- See* FLASHCODE 121 FOR EXPLANATION OF THE PROBLEM.
- Close* ACROBAT .
- Click*  TO CLEAR THIS SCREEN.



**FLEETCROSS TRAINING
MODULE 3
DIAGNOSTICS
TASK 2**

TASK 2: A 1997 GM G VAN HAS A MALFUNCTION INDICATOR LIGHT (MIL) ILLUMINATED AND A STORED DIAGNOSTIC CODE P0251. WHAT HAPPENED? WHAT IS THE REPAIR?

TO FIND OUT WHAT HAPPENED AND HOW TO REPAIR

- Click* TurboDoc 
- Scroll* **MANUFACTURING WINDOW**
- Click* GENERAL MOTORS CORPORATION
- Scroll* **MODEL OR COMPONENT WINDOW**
- Click* GVAN 1997: ENG GM 6.5L SN UNKN
- Click* VEHICLE SYSTEM BULLETINS – ALL MAKES.
- Double Click* BULLETINS – ALL MAKES 1997-2000.
- Click* GENERAL MOTORS.
- Click* G MODELS
- Click* ENGINE FUEL AND EMISSIONS.
- Click* FIND (IN ACROBAT - ).
- Enter* P0251.
- Click* FIND BUTTON IN SEARCH POP-UP.
- Click* CANCEL BUTTON IN SEARCH POP-UP.

CONTINUED

Click BULLETIN NUMBER 77-65-27 FOR DTC P0251.


See WHAT HAPPENED AND HOW TO REPAIR IN THE
BULLETIN.




**FLEETCROSS TRAINING
MODULE 3
DIAGNOSTICS
TASK 3**

**TASK 3: INTERNATIONAL LEA NUMBER 6033-4002
ALARMSTAT INDICATOR LIGHT IS ON. WHAT
SWITCHES MIGHT BE INVOLVED IN THE
DIAGNOSIS AND WHERE ARE THEY LOCATED?**

TO FIND THE CORRECT VMRS CODE FOR ALARMSTAT

- Click* **TurboSearch+** 
- Enter* **ALARMSTAT** IN PART NUMBER WINDOW.
- Click* **SEARCH.**
- Click* **INTERNATIONAL.**
- See* **VMRS 003004011** --- **SWITCH – HIGH TEMP
(ALARMSTAT)** IN VEHICLE SYSTEM WINDOW.
(USE **003004** NEXT IN YOUR DOCULINK DRILL-
DOWN TO DETERMINE SWITCHES INVOLVED).

TO DETERMINE WHAT SWITCHES ARE INVOLVED

- Click* **TurboDoc** 
- Enter* **LEA NUMBER 6033-4002.**
- Click* **003004** IN VEHICLE SYSTEM.
- Double Click* **ELECTRICAL TROUBLESHOOTING. . .**
- Click* **TROUBLESHOOTING 2.1.2.**

CONTINUED

Note OIL PRESSURE SWITCH AND ENGINE WATER TEMPERATURE SWITCH INVOLVED IN TROUBLE TREE.

TO FIND THE REPLACEMENT PART NUMBER AND LOCATION FOR OIL PRESSURE AND ENGINE WATER TEMPERATURE SWITCHES

Close ACROBAT .

Click CLEAR ALL SCREENS .

Click TurboSearch+ .

Enter **OIL PRESSURE** IN PART NUMBER WINDOW.

Click INTERNATIONAL.

See VMRS CODE **003001024 SWITCH – SIGNAL LOW OIL** IN THE VEHICLE SYSTEM WINDOW.

See PART DESCRIPTIONS WINDOW FOR 003-001-024 OIL PRESSURE WARNING SWITCH INFORMATION.

See APPLICATION DESCRIPTIONS WINDOW FOR 003-001-024 AND ITS FIGURE NUMBER 10-009 AT END. THIS REFERENCE NUMBER IS USED NEXT IN THE FIGURE WINDOW.

Double Click **FIGURE 10-009** IN FIGURES WINDOW.

See LOCATION OF **OIL PRESSURE SWITCH** ON ILLUSTRATION PAGE.

See ITEM 003, PART NUMBER 132244R91 FOR OIL PRESSURE SWITCH ON PAGE 2.



Close ACROBAT .

Click CLEAR THIS SCREEN .

Enter **SWITCH** IN PART NUMBER WINDOW.

Click INTERNATIONAL.


CONTINUED

- See VMRS CODE **003001018 SWITCH – INDICATOR, ENGINE** IN THE VEHICLE SYSTEMS WINDOW.
- See PART DESCRIPTIONS WINDOW FOR 003-001-018 ENGINE WATER TEMPERATURE SWITCH INFORMATION.
- See APPLICATION DESCRIPTIONS WINDOW FOR 003-001-018 AND ITS FIGURE NUMBER 08-069 AT END. THIS REFERENCE NUMBER IS USED NEXT IN THE FIGURE WINDOW.
- Double Click* **FIGURE 08-069** IN FIGURES WINDOW.
- See LOCATION OF **ENGINE WATER TEMPERATURE SWITCH** ON ILLUSTRATION PAGE.
- See ITEM 005, PART NUMBER 1661837C1 FOR ENGINE WATER TEMPERATURE SWITCH ON PAGE 2.
- Close* ACROBAT .
- Click*  CLEAR THIS SCREEN.



**FLEETCROSS TRAINING
MODULE 3
DIAGNOSTICS
TASK 4**

TASK 4: DETERMINE CAUSE AND REPAIR OF THE ETHER START SYSTEM NOT WORKING ON LEA NUMBER 6033-4002. WHAT IS THE LOCATION OF PART AND ITS REPLACEMENT PART NUMBER?

TO DETERMINE CAUSE AND REPAIR OF ETHER START SYSTEM NOT WORKING


- Click* TurboDoc 
- Enter* LEA NUMBER 6033-4002
- Key-In* ETHER IN VEHICLE SYSTEM WINDOW AND PRESS ENTER.
- Click* ETHER INJECTOR ASSEMBLY --- 041005 IN DROP DOWN BOX.
- Double Click* ELECTRICAL-TROUBLESHOOTING, DIESEL ENGINE GLOW PLUGS.
- Click* 2.0 TROUBLESHOOTING, 2.2 ETHER START.
- Follow* TROUBLETREE TO REPLACE THERMO SWITCH.

TO DETERMINE LOCATION AND REPLACEMENT PART NUMBER FOR THE THERMOSWITCH

- Click*  GO TO PREVIOUS VIEW UNTIL YOU RETURN TO SECTION E.
- Click* 5.0 COMPONENT LOCATION. NOTE WHERE THERMO SWITCH IS LOCATED.
- Close* ACROBAT  **CONTINUED**

Double Click **PARTS – ENGINE ETHER START MTG, EXC KBI DIESELMATIC.**

See PARTS ILLUSTRATION OF THERMO SWITCH (ITEM 11).

Click TOOLBAR – NEXT PAGE , OR

Click BOTTOM OF THUMBNAIL – PAGE 2.

See ITEM 11 SWITCH, THERMOSTAT ETHER, PART NUMBER 1661871C91.

Close ACROBAT .

Click  CLEAR THIS SCREEN.

**FLEETCROSS TRAINING
MODULE 3
DIAGNOSTICS
TASK 5**

TASK 5: THE HEADLIGHTS ARE NOT OPERATING ON LEA NUMBER 6033-4002. WHY?

Click **TurboDoc** 

Enter **LEA NUMBER 6033-4002.**

Key In HEADLAMP IN VEHICLE SYSTEM WINDOW.

Click **HEADLAMPS --- 034001** IN DROP DOWN BOX.

Double Click ELECTRICAL TROUBLESHOOTING-HEADLIGHTS, DAYTIME RUNNING LIGHTS, AND FOG LIGHTS.

Click 2.2.1 TROUBLESHOOTING, HEADLIGHTS FAULT TREE.

See THE POSSIBLE CAUSES EXPLAINING WHY **HEADLIGHTS DO NOT OPERATE.**

Close ACROBAT .

Click  CLEAR THIS SCREEN.