

ANOTHER TOUCH DRIVER ACADEMY



LESSON 16

VEHICLE INSTRUMENTATION

INTRODUCTION



Vehicle instrumentation refers to the array of gauges, indicators and displays that provide drivers with crucial information about the vehicle's performance and status.

These instruments helps in monitoring various systems and ensuring safe operation.



MAIN INSTRUMENT CLUSTER

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A. SPEEDOMETER:

- **FUNCTION:** Measures and displays the vehicle's speed
- **TYPES:** Analog (needle-based) and digital
- **IMPORTANCE:** Essential for maintaining legal and safe speeds.



B. TACHOMETER:

- **FUNCTION:** Displays engine's RPM (Revolution per Minute)
- **TYPES:** Analog and digital
- **IMPORTANCE:** Helps in maintaining engine performance and avoiding over revving.



MAIN INSTRUMENT CLUSTER continued

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C. FUEL GAUGE:

- **FUNCTION:** Indicate the level of fuel in the tank
- **TYPES:** Analog and digital
- **IMPORTANCE:** Prevents running out of fuel and aids in planning refueling.



D. TEMPERATURE GAUGE:

- **FUNCTION:** Measures the engine coolant temperature
- **TYPES:** Analog and digital
- **IMPORTANCE:** Helps in avoiding overheating and ensuring proper engine operation

MAIN INSTRUMENT CLUSTER continued

E. OIL PRESSURE GAUGE:

- **FUNCTION:** Displays the oil pressure within the engine
- **TYPES:** Analog and digital
- **IMPORTANCE:** Ensure adequate lubrication and prevents engine damage.



WARNING LIGHTS

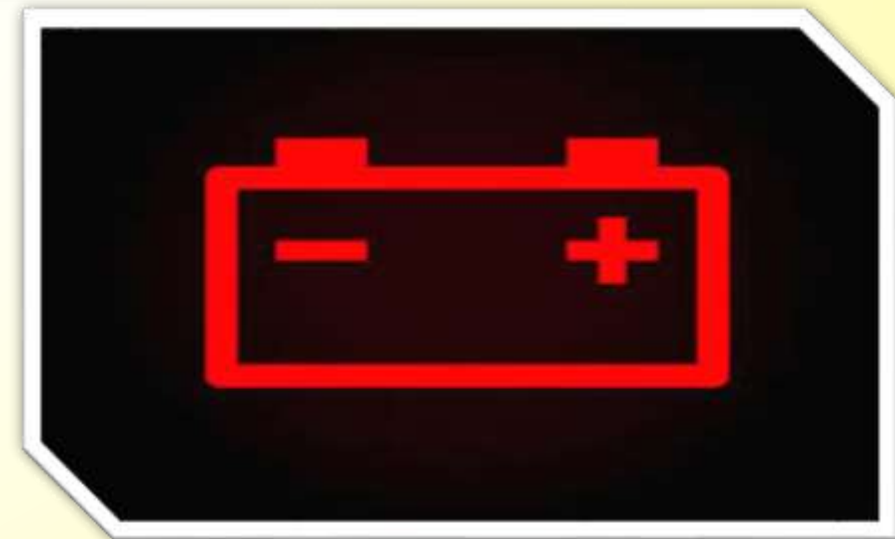
A. CHECK ENGINE LIGHT (MIL):

- **FUNCTION:** Indicates a potential issue with the engine or emission control system.
- **ACTION:** Requires diagnostic testing to identify the problem



B. BATTERY CHARGE WARNING LIGHT:

- **FUNCTION:** Signals issues with the battery or the charging system
- **ACTION:** Check the battery and alternator



WARNING LIGHTS continued

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C. BRAKE WARNING LIGHT:

- **FUNCTION:** Alerts to potential brake system issues or low brake fluid
- **ACTION:** Check brake fluid levels and system functionality

D. OIL PRESSURE WARNING LIGHT:

- **FUNCTION:** Indicates low oil pressure
- **ACTION:** Check oil levels and engine for leaks or issues

E. COOLANT TEMPERATURE WARNING LIGHT:

- **FUNCTION:** Warns of overheating
- **ACTION:** Check coolants levels and radiator for leaks



ADDITIONAL FEATURES

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- **TRIP COUNTERS**
- **HEATING AND AIR CONDITIONS**
- **VENTS**
- **TAPE/AUDIO SYSTEM**
- **CIGARETTE LIGHTER**
- **GLOVE COMPARTMENT.**



THE END.

**THANK YOU FOR
YOUR
PARTICIPATION**