

ECU FUNCTIONAL TESTING

An **ECU (Electronic Control Unit)** is an embedded system used in vehicles to control and manage engine operations such as fuel injection, ignition timing, and sensor-based decision making. The ECU continuously receives input from various sensors and processes this data to control the engine efficiently and safely.

The flowchart helps testers systematically check ECU behavior by following a defined sequence. If the ECU output matches the expected behavior, the test passes. If any deviation occurs, it is identified, logged, corrected, and re-tested. This ensures that the ECU performs all its intended functions correctly before vehicle deployment.

FLOWCHART

