

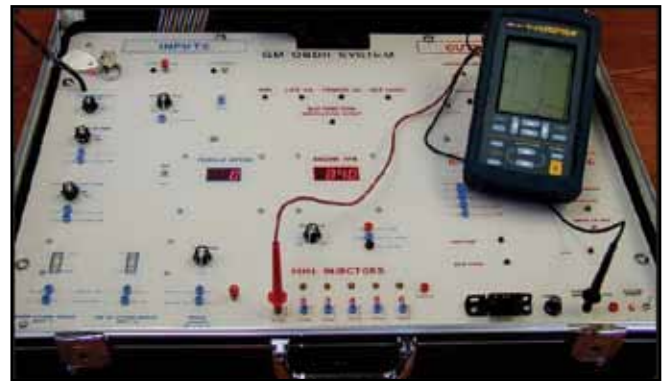
# Engine Performance



Fault Panel

## GM OBD II (Suitcase) Model 2651/60S\*

- Engine and Transmission Control
- Compatible with OBD II Scan Tools
- Enhanced Diagnostics with Code, Engine Protection and OBD II Faults
- Interface with Suitcase C<sup>3</sup>I Ignition (Model 1771SF)
- Courseware Included
- Trainer Size: 30 x 20 x 10 inches
- Trainer Weight: 40 pounds

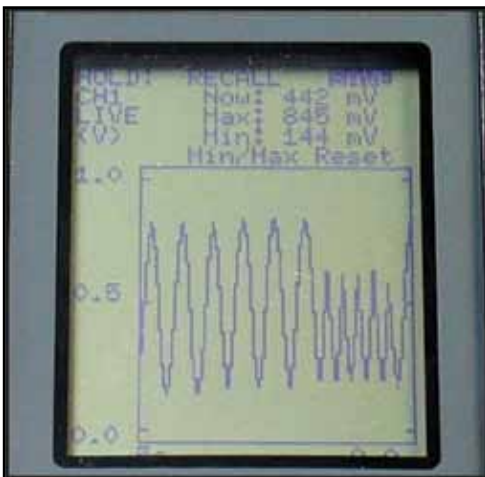


Fuel Injector Waveform Measurement

\* Diagnostic Equipment NOT Included



Oxygen Sensors and Fuel Trim Control



Fuel Control Oxygen Sensor Signal



OBD II Monitor Status

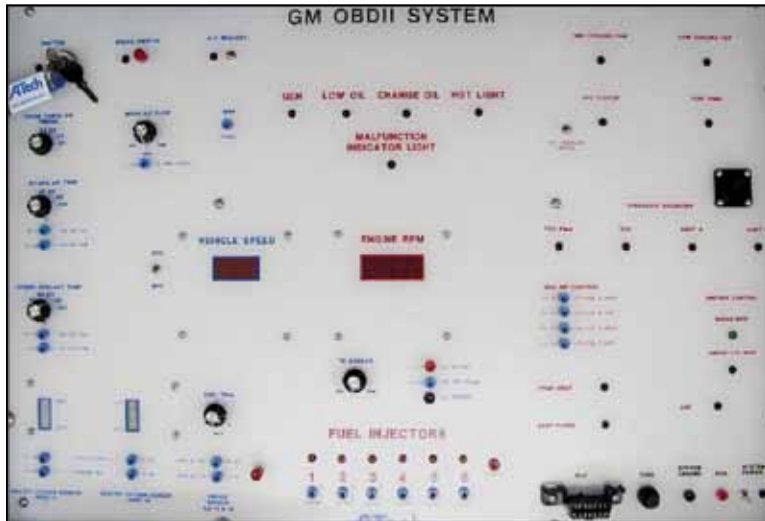
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# Engine Performance



## GM OBD II (Suitcase) Full Front Panel View

### TRANSAXLE CONTROL:

- Realistic electronic control of shift solenoids
- Realistic up-shifting based on vehicle speed, gear selection and throttle position
- Realistic torque converter clutch solenoid operation including apply/release and rate control solenoids
- Downshift during full throttle
- Realistic manual downshifting
- Realistic coast-down downshift

### OBD II DEMONSTRATIONS:

- Performs GM OBD II Drive Cycle
- Normal catalytic converter monitoring system operation
- Failed catalytic converter monitoring system operation
- Normal closed loop fuel control oxygen sensor operation
- Slow response rate fuel control oxygen sensor operation
- Normal oxygen sensor warm-up operation
- Normal oxygen sensor heater monitor operation
- Shift in A/T ratio control point
- Normal short term/long term fuel trim operation
- Normal EGR monitor operation
- No feedback EGR operation
- Type "A" CAT converter damage misfire
- Normal comprehensive component monitoring
- Selected failure of comprehensive component monitoring
- Normal evaporative system monitor operation
- Catalytic converter "warm-up" operation
- Catalytic converter "punch through" operation

### ENGINE CONTROL:

- Actual emission control operation based on sensor inputs
- Actual sequential injector operation
- Flooded engine clearing during start-up
- RPM increase during A/C demand
- Knock retard of spark (observable on scan tool)
- Low temperature "choke" action
- Actual engine load operation
- High speed injector cut-out
- Fuel trim control
- Ignition control signals (C<sup>3</sup>I Demonstrator)
- Ignition sensor signals (C<sup>3</sup>I Demonstrator)
- Primary and secondary ignition (C<sup>3</sup>I Demonstrator)

## GM OBD II Trainer connected to C<sup>3</sup>I Ignition Trainer

