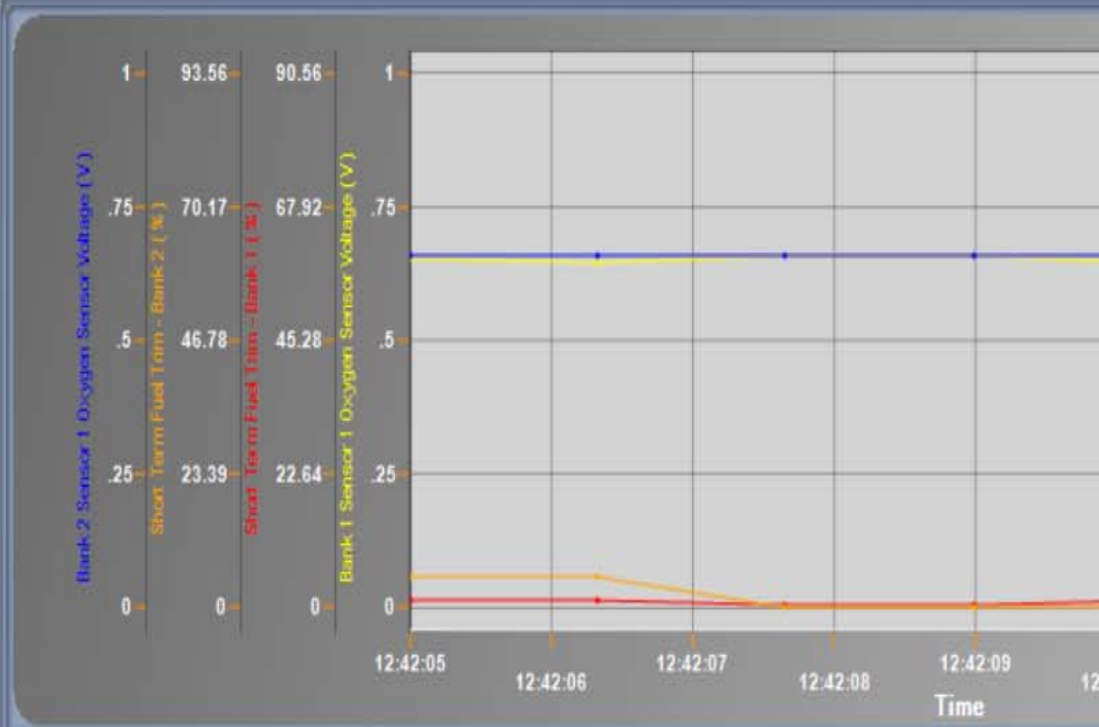


- EVAP Codes
- Fuel Economy (Poor)
- Fuel Related Codes
- Hard Starting (Cold)
- Hard Starting (HOT)
- Hard Starting (Anytime)
- Hesitation/stumble When Accelerating
- Idle (Rough)
- Idle (Too fast)
- Idle (Too slow)
- Ignition Related Codes
- Knock Sensor Codes
- Lean Codes (Fuel Trim)
- MAF (airflow) Sensor Codes
- MAP Sensor Codes

LEAN CODES (P0171 & P0174)

- Most likely causes of lean code:
- Low fuel pressure (weak fuel pump, plugged fuel filter or leaky fuel pressure regulator)
  - Dirty fuel injectors
  - Vacuum leaks
  - Bad Oxygen sensor(s)
  - Air leak in exhaust manifold
  - Burned exhaust valve
  - Cylinder misfire
  - Dirty mass airflow sensor
  - Leaky EGR valve

First, look at fuel trim. If fuel trim is running lean (a value of 12 or higher), lean fuel condition is confirmed. Normal fuel trim should be between plus or minus 8).  
 NOTE: False lean fuel trim condition may be due to oxygen entering exhaust and fooling O2 sensors. Cause may be burned exhaust valve leaking compression, cylinder misfire or air leak in exhaust manifold.



Select Parameters

PID Name	
Fuel System Monitor	Completed
Fuel System1 Status	Closed Loop-using oxygen
Fuel System2 Status	Closed Loop-using oxygen
Short Term Fuel Trim - Bank 1	0.78125 %
Long Term Fuel Trim - Bank 1	-0.78125 %
Short Term Fuel Trim - Bank 2	0 %
Long Term fuel Trim - Bank 2	18.75 %
Mass Air Flow Rate (MAF)	3.5 g/s
Bank 1 Sensor 1 Oxygen Sensor Voltage	0.655 V
Bank 1 Sensor 1 Short Term Fuel Trim	0.78125 %
Bank 2 Sensor 1 Oxygen Sensor Voltage	0.66 V
Bank 2 Sensor 1 Short Term fuel Trim	0 %