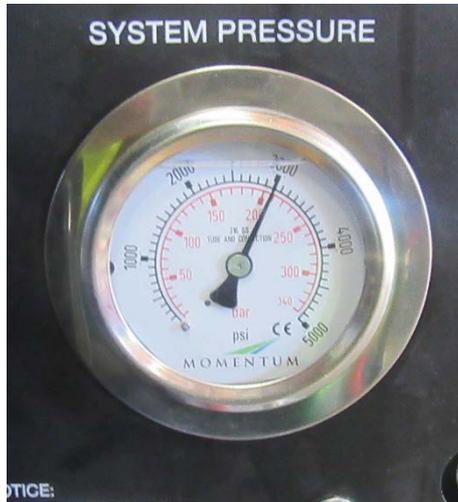


# Enabling the Fuel Gauge



# Fuel Level Reading

## Fuel Level Per Psi Reading



0 psi = E

900 psi =  $\frac{1}{4}$  Tank

1800 psi =  $\frac{1}{2}$  Tank

2700 psi =  $\frac{3}{4}$  Tank

3600 psi = Full Tank



All reading are at 70 °F

Accurate temperature compensation allows dispensers to place a full fuel load on the vehicle during all weather conditions. Anytime the temperature of the gas in a cylinder is higher than 70° F, the full cylinder pressure will be greater than the commonly rated 3,600 psi service pressure at 70° F.

# Temperature Compensated Cylinder Pressure

Temperature Compensated Cylinder Pressure	
3,600 psi service pressure calculated from the standard gas composition used to create the gasoline gallon equivalent	
Gas Temperature, Degrees F	Pressure in Full 3,600 psi CNG Container, psig
123.6	4,500
120.0	4,455
110.0	4,272
100.0	4,105
90.0	3,936
80.0	3,768
70.0	3,600
60.0	3,432
50.0	3,263
40.0	3,094
30.0	2,926
20.0	2,757
10.0	2,589
0.0	2,421
-10.0	2,253
-20.0	2,086
-30.0	1,919
-40.0	1,753

# Required Program and Interface Tool

Diagnostic tool Paccar Electronic Service Analyst is a dealer program for the diagnosis of Kenworth and Peterbilt. Diagnostic tool contains information on repair and maintenance, as well as electrical wiring diagnostics. This program works with Nexiq, CECU emulsion, ICU emulsion. Diagnostic program as a diagnostic tool works with all functions in the ECM, the ESA reported on the Data Link Adapter for NAMUX components.



The USB-Link™ 2, the next generation vehicle interface from NEXIQ Technologies. Standard adapter for most heavy-duty vehicles is the 6 and 9-Pin Deutsch Adapter.



# Connect USB-Link to Laptop

Attach the latching USB Cable on the USB-Link to the USB port on the laptop



# Connecting the USB-Link to the OBD

On-board diagnostics (OBD) is an automotive term referring to a vehicle's self-diagnostic and reporting capability. OBD systems give the vehicle owner or repair technician access to the status of the various vehicle subsystems.



Standard adapter for most heavy-duty vehicles is the 6 and 9-Pin Deutsch Adapter attached the correct adapter. They are different sizes so you won't get it wrong



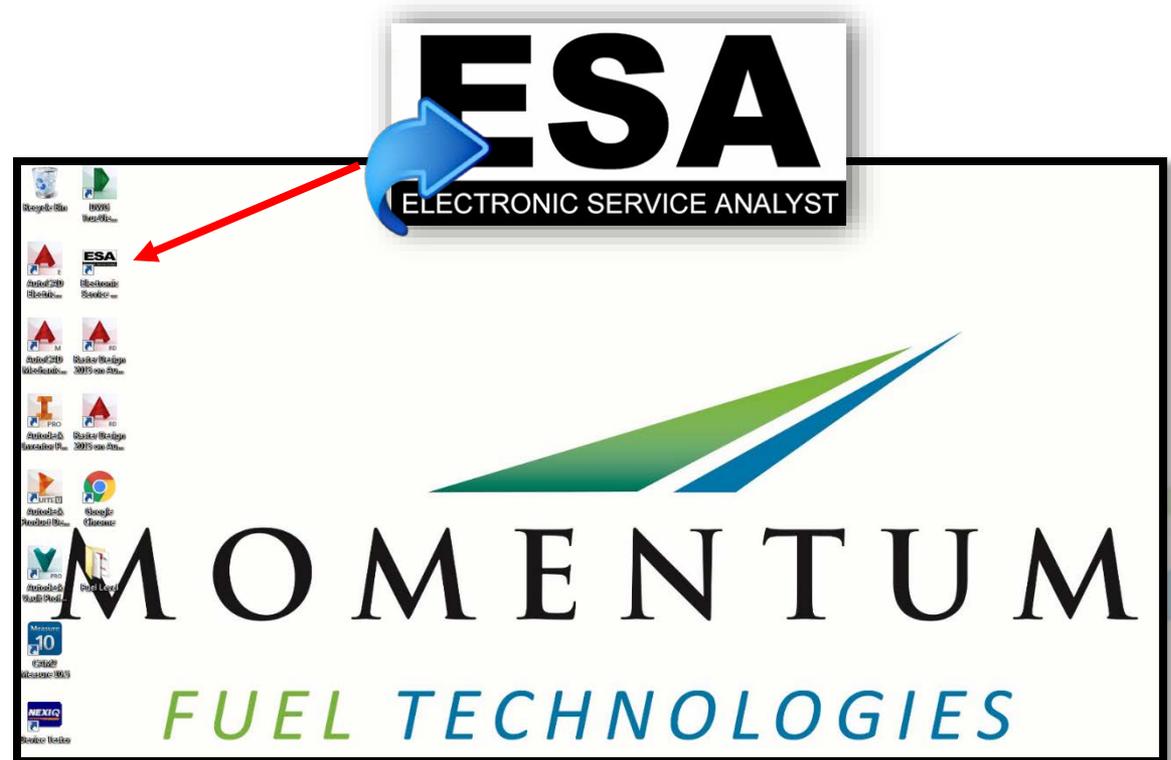
# Powering Up

Turn the Key on and let  
the trucks computer start  
its Boot-Up



# Opening Electronic Service Analyst (ESA) Program

Click on the Electronic Service Analyst icon to open program.

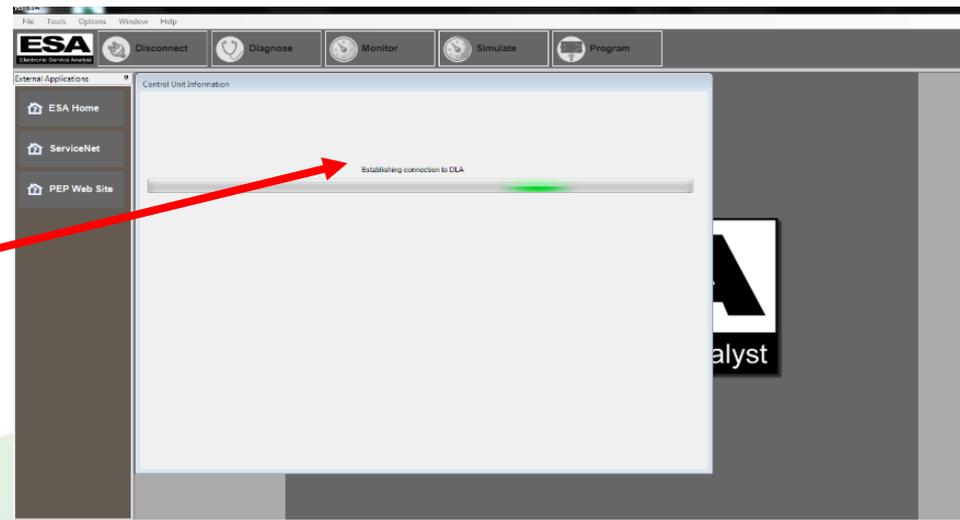


# Data Connection

Click on the Connect tap at the upper left corner to connect to the vehicle.

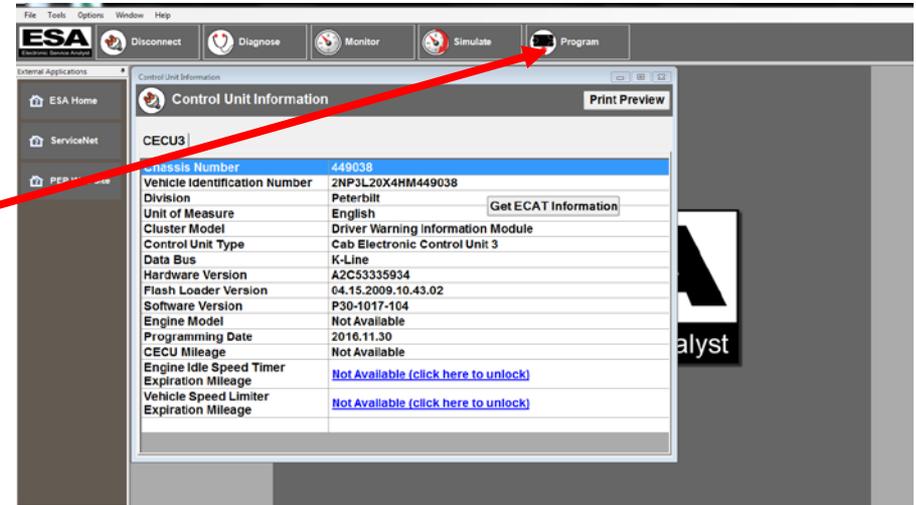


A window open saying *Establishing connection to DLA* will open up. It will run for a few minutes to make the connection.

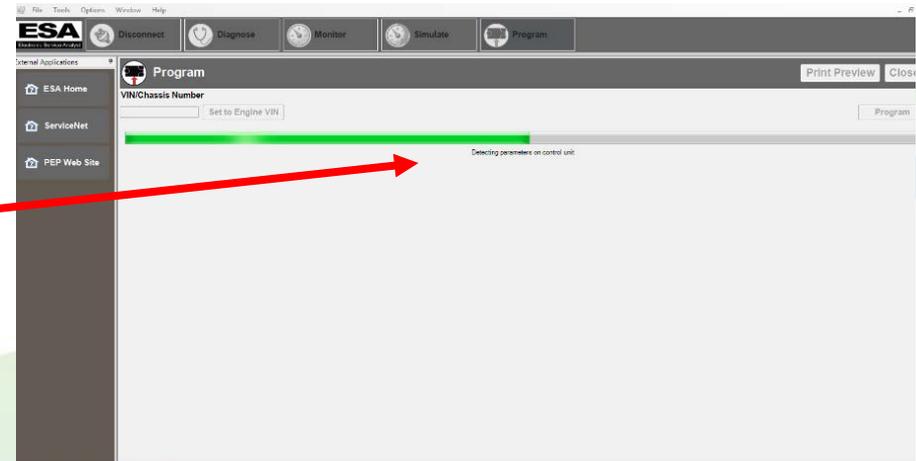


# Parameter On Control Unit

Click on the Program tap at the upper right corner to open current program parameter on the control unit.



A window open saying Detecting *Parameter On Control Unit* will open up. It will run for a few minutes to make the connection.



# Enable The Fuel Gauge

A PWM signal is sent to CECU to replicate the exact same signal it would see if it were a diesel fuel tank sender.

System Chassis Interface Harness Fuel Sender must be connected to OEM Chassis Harness LH Fuel Tank Sender connector

OEM Fuel Gauge must be turned on in the CECU.

Legacy Cab needs Primary Fuel Level Gauge Installed set to CVSG and Primary Fuel Level on V-Can set to Enabled

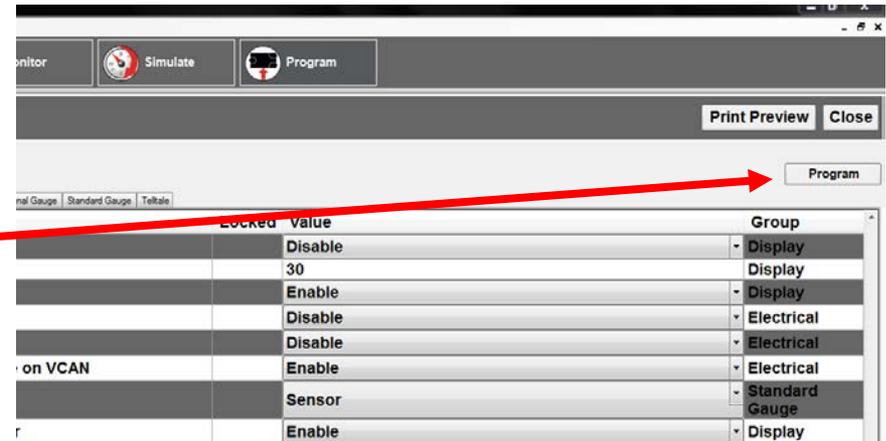
NGP Cab Needs Primary Fuel Level on V-Can set to Enabled.

Description	Locked	Value	Group
Ignition Timer Available	Disable		Display
Ignition Timer Maximum		30	Display
Languages Available	Enable		Display
Lighting Data on VCAN	Disable		Electrical
Low Voltage Disconnect Installed	Disable		Electrical
Main Transmission Oil Temperature on VCAN	Enable		Electrical
Outside Air Temperature Source	Sensor		Standard Gauge
Park Brake Symbol In Indication Bar	Enable		Display
Primary Air Pressure Gauge Installed	Enable		Standard Gauge
Primary Air Pressure on V-CAN	Enable		Electrical
Primary Fuel Level Gauge Installed	Enable		Standard Gauge
Primary Fuel Level on V-CAN	Enable		Electrical
Prohibit Dash Dimming With Dome Lamp On	Disable		Dash Lighting
PTO Control Present	Enable		Drivetrain
PTO Control Temperature Sensor Installed	Disable		Optional

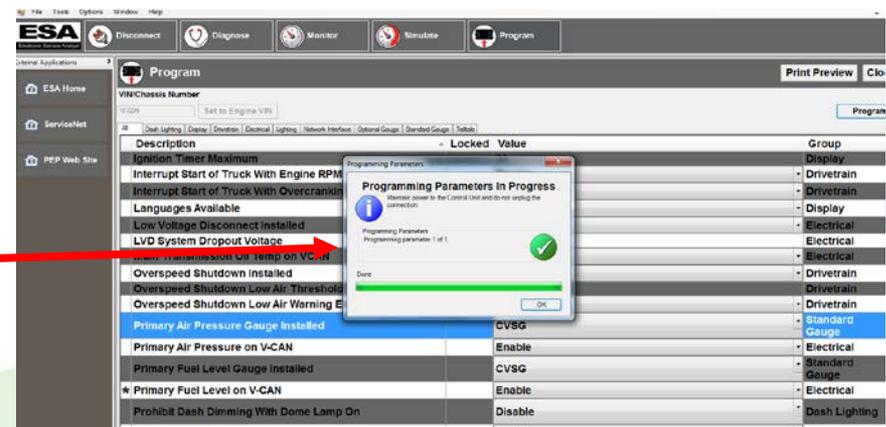
* Primary Fuel Level Gauge Installed	CVSG
✓ Primary Fuel Level on V-CAN	Enable

# Program the Changes

Click on the Program tap at the upper right corner to save the new program to the control unit.



A window open saying *Program Parameters In Progress*. When complete a green check will appear and the word DONE. Click on the OK to close window.



# Disconnecting

Click on the Disconnect tap at the upper left corner to disconnect from the control unit. Turn the vehicle key off and disconnect the Standard adapter for most heavy-duty vehicles is the 6 and 9-Pin Deutsch Adapter.

