

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER B-58-1
Relating to Conversion of Vehicles to Gaseous Fuels

Roush Industries, Inc.

Pursuant to the authority vested in the Air Resources Board by Section 43004 and Section 43006 of the Health and Safety Code and Section 10753(d) of the Revenue and Taxation Code; and

Pursuant to the authority vested in the undersigned by Section 39515 and Section 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the dedicated liquefied petroleum gas (LPG) retrofit system manufactured by Roush Industries, Inc. of 12249 Levan Road, Livonia, Michigan 48150, is certified as described below for the following 2010 model-year Ford Motor Company medium duty flexible-fueled vehicle:

Fuel Type: LPG dedicated

Test Group: AFMXT05.45HJ

Displacement: 5.4 liter

Evaporative Family: AFMXR0265NAD, AFMXF0265NAS

Retrofit System Components:

<u>Component</u>	<u>Part Number</u>	<u>Description</u>
Fuel rail assembly, LH	P07HD-03D001-AA	Fuel rail with four (4) fuel injectors
Fuel rail assembly, RH	P07HD-03D002-AA	Fuel rail with four (4) fuel injectors
Module, fuel rail pressure control	P10C2-9G866-AA	LPG fuel management module
IPTS interface module (Smart Relay Module)	P10C2-A12A650-AA	Ford PCM interface

<u>Component</u>	<u>Part Number</u>	<u>Description</u>
Fuel filter assembly	P07L3-9155-AA	Fuel filter
Wire harness, main vehicle	P11C2-3075-AA	Wire harness
Sherwood fill valve	PV1855BRCN	Propane filler valve
Fuel pump	F90000265	Fuel pump
Multivalve	17129000	Fuel tank valve

All emission control systems and the manufacturer's tune-up label shall be retained. The engine shall be adjusted to Roush's tune-up specifications. The production retrofit systems shall be in all material respect the same as those for which certification is granted.

The certification exhaust emission standards for this test group in grams per mile are:

<u>@ Useful Life</u>	<u>Emission Standard Category</u>	<u>NMOG</u>	<u>CO</u>	<u>NOx</u>	<u>HCHO</u>
120,000 miles	LEV II ULEV	0.125	4.2	0.2	0.018

The certification exhaust emission values for this test group with the dedicated LPG retrofit system in grams per mile are:

<u>@ Useful Life</u>	<u>Fuel</u>	<u>Emission Standard Category</u>	<u>NMOG</u>	<u>CO</u>	<u>NOx</u>	<u>HCHO</u>
120,000 miles	LPG	LEV II ULEV	0.042	1.9	0.02	0.002

The certification evaporative emission standards for these evaporative families in grams are:

3-Days Diurnal + Hot Soak @ Useful Life
1.00

The certification evaporative emission values for evaporative families in grams are:

3-Days Diurnal + Hot Soak @ Useful Life
0.43

BE IT FURTHER RESOLVED: That the retrofit system is not being certified to credit-generating emission standards as described in Sections 5 and 6 of the "California

Certification and Installation Procedures for Alternative Fuel Retrofit Systems for Motor Vehicles Certified for 1994 and Subsequent Model Year and for All Model Year Motor Vehicle Retrofit Systems Certified for Emission Reduction Credit”.

BE IT FURTHER RESOLVED: That the retrofit system manufacturer may be subjected to in-use enforcement emissions testing as described in Section 8 of the “California Certification and Installation Procedures for Alternative Fuel Retrofit Systems for Motor Vehicles Certified for 1994 and Subsequent Model Year and for All Model Year Motor Vehicle Retrofit Systems Certified for Emission Reduction Credit”.

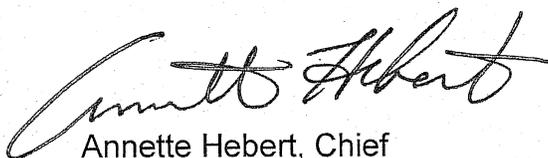
BE IT FURTHER RESOLVED: That the retrofit system manufacturer shall provide a supplemental emission control information label, which shall be affixed in a permanent manner located adjacent to the original Emission Control Information Label, and shall comply with the labeling requirements described in Section 3(b), of the “California Certification and Installation Procedures for Alternative Fuel Retrofit Systems for Motor Vehicles Certified for 1994 and Subsequent Model Year and for All Model Year Motor Vehicle Retrofit Systems Certified for Emission Reduction Credit”.

BE IT FURTHER RESOLVED: That the manufacturer has submitted and the Executive Officer hereby approves the materials required to demonstrate certification compliance with the warranty requirements under Section 9, of the “California Certification and Installation Procedures for Alternative Fuel Retrofit Systems for Motor Vehicles Certified for 1994 and Subsequent Model Year and for All Model Year Motor Vehicle Retrofit Systems Certified for Emission Reduction Credit”.

The engine family retrofit system certified under this Executive Order must conform to all applicable California emission regulations. Certification of the retrofit system shall not be construed as a certification to sell, offer for sale, or advertise any component of the retrofit system as an individually certified part.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 22 day of June 2012.



Annette Hebert, Chief
Mobile Source Operations Division