

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER B-4-75

Relating to Conversion of Vehicles to Gaseous Fuels

IMPCO TECHNOLOGIES

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 compressed natural gas (CNG) retrofit system, manufactured by IMPCO Technologies, Inc. (IMPCO) of 7100 East 15 Mile Road, Sterling Heights, Michigan 48312-4522, is certified as described below for the following 2012 model-year Ford Motor Company gasoline vehicle:

Fuel Type: Gasoline to CNG
Test Group: CFMXT02.51EN Displacement: 2.5 liter

Major Retrofit System Components:

<u>Component</u>	<u>Part Number</u>
Regulator, High Pressure, GFI	PMP01622
Injector, NG12 158 842	IJ-52696-002
MOD, AFD – 11 Escape New HW	MD-53553-C
MOD, FLASH, ESCAPE	MD-53553-C

All emission control systems, excluding the gasoline fuel and evaporative emission control systems, and the vehicle manufacturer's tune-up label shall be retained. The vehicle shall be adjusted to IMPCO's tune-up specifications. The production retrofit system shall be in all material respect the same as that for which certification is granted.

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

		<u>NMOG</u>	<u>CO</u>	<u>NOx</u>	<u>HCHO</u>
Emission Standards	@ 50,000 Miles	0.040	1.7	0.05	0.008
LEV II ULEV LDT	@ 120,000 Miles	0.055	2.1	0.07	0.011

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

		<u>NMOG</u>	<u>CO</u>	<u>NOx</u>	<u>HCHO</u>
Certification	@ 50,000 Miles	0.008	0.7	0.01	0.000
Levels	@ 120,000 Miles	0.015	0.9	0.02	0.000

BE IT FURTHER RESOLVED: That the retrofit system manufacturer shall comply with the durability requirements in accordance with Sections 5(b) and 5(g) of the "California Certification and Installation Procedures for Alternative Fuel Retrofit Systems for Motor Vehicles Certified for 1994 and Subsequent Model Years 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 emission 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 Years 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 and a vacuum hose routing diagram, which shall be affixed, in a permanent manner, 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 Years and for All Model Year Motor Vehicle Retrofit Systems Certified for Emission Reduction Credit."

BE IT FURTHER RESOLVED: That the retrofit system 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 Years and for All Model Year Motor Vehicle Retrofit Systems Certified for Emission Reduction Credit."

The 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 Executive Order and attachment.

Executed at El Monte, California this 18th day of January 2013


Annette Hebert, Chief
Mobile Source Operations Division