CALIFORNIA
AIR RESOURCES BOARD

EXECUTIVE ORDER B-80

Relating to Conversion of
On-Highway Vehicles to Electricity

Maxwell Vehicles LLC
ePro System (new)

Pursuant to the authority vested in the undersigned by Section 39515 and Section 39516 of the Health and Safety Code and Executive Order G-19-095; and

Pursuant to Health and Safety Code Section 43004, which provides, in pertinent part, that the standards applicable for exhaust emissions for gasoline or diesel powered motor vehicles shall apply to motor vehicles which have been modified or altered to use a fuel other than gasoline or diesel; and

Pursuant to Health and Safety Code Section 43006, which provides that the California Air Resources Board may certify the fuel system of any motor vehicle powered by a fuel other than gasoline or diesel which meets the standards specified by Section 43004; and

Pursuant to Vehicle Code Section 27156 which provides in pertinent part that the prohibitions in Section 27156 regarding alterations, modifications or modifying devices, apparatuses or mechanisms which modify or alter the original design or performance of required motor vehicle pollution control devices or systems shall not apply to alterations, modifications, or modifying devices, apparatuses, or mechanisms found by the California Air Resources Board to not reduce the effectiveness of required motor vehicle pollution control devices or result in emissions from any such modified or altered vehicle which are at levels which comply with existing state or federal standards for the model year of the vehicle being modified or converted;

IT IS ORDERED AND RESOLVED: That the ePro System (new) manufactured by Maxwell Vehicles LLC, of 9621 40th Avenue NE, Seattle, Washington 98115 is approved for installation on RAM ProMaster vehicles originally incorporating 2014 through 2019 model year engines certified to the 2004 and subsequent model light-duty gasoline or diesel engines and vehicles, or less stringent standards, for select ProMaster vans and cab chassis vehicles listed in Exhibit A, of this document.

BE IT FURTHER RESOLVED: That because the motor vehicles converted in accordance with the systems covered by this order are powered by battery-stored electricity and have no on-board systems which consume any fuel other than electricity; the vehicles have no exhaust emissions and therefore comply with the exhaust emission standards applicable to 2004 and subsequent model light-duty gasoline engines between 8,501 and 10,000 pounds GVWR or diesel engines and vehicles for use on medium-duty vehicles, between 8,501 and 14,000 pounds GVWR, or less stringent standards.

The ePro System (new) includes the following major components:

Component	Part Number	Description
3DU Motor & Inverter Assembly	PM3-1002-A	Electric drive motor, inverter and gearbox.
Drive Unit Low Voltage Wiring Harness	PM3-2600-A	The wiring harness that connects the low voltage components on the 3DU to the rest of the chassis harness.
Chassis Wiring Harness	PM3-2200-A	The wiring harness that connects the chassis components on the super frame.
Front Controller	PM3-2107-A	The controller that lives in the front of the vehicle and controls the thermal system and the forward components
12V Battery	PM3-2111-A	The 12V battery.
Power Steering Pump	PM3-6001-A	An electric motor affixed to a pump head that generates hydraulic pressure.
Thermal Bar Assembly	PM3-4100-A	the AC compressor, the super bottle (coolant reservoir), and the refrigerant plumbing.
Superframe Structure	PM3-1110-C	Steel frame structure that holds all the components in the engine bay.
Electronic Parking Brake Actuator	PM3-7120-A	The electric actuator that pulls on the brake control cable.
LTE Antenna	PM3-2106-A	An antenna that picks up LTE signals.
GPS Antenna	PM3-2105-A	An antenna that picks up GPS signals.
CANSlator	PM3-2500-A	The Maxwell CAN integration controller and gateway/body controller.
Telematics Gateway	PM3-2102-A	The telematics control unit that connects to the LTE and GPS antennas.
CPECU	PM3-2104-A	The chargeport electronics control unit.
Shifter ECU	PM3-2108-A	The ECU that is retrofitted into the shifter to determine shift position.
Instrument Cluster Bezel W/ Indicator	PM3-2110-A	The instrument cluster indicator that get retrofitted to the cluster area for indication of charging state.
Charge Inlet Bracket Lower	PM3-3502-A	The lower bracket for the charge inlet
Charge Inlet Door Assembly	PM3-3510-A	The door for the charge inlet,
Charge Inlet Assembly	PM3-3501-A	The charge inlet itself.
HV Battery & Power Electronics Assembly 75kW	PM3-3001-A	High voltage battery pack, which includes the integral BMS, high-voltage controller (HVC) DC-DC converter and AC charger, as well as all other bussing and distribution.
Battery Mounting Bracket Assembly	PM3-3100-B	The mounting bracket assembly that is used to hold the high voltage battery pack to the vehicle.

BE IT FURTHER RESOLVED: That because the motor vehicles converted in accordance with the systems covered by this order have no parts that affect emissions for which there is an applicable emission requirement, the conversion system manufacturer is not required to provide an emission control system warranty pursuant to Health and Safety Code Section 43205 or 43205.5, or Title 13, California Code of Regulations, Sections 2035 et seq, 2038, and 2039. Motor vehicles converted in accordance with the system covered by this order shall not be equipped with any on-board system which consumes any fuel other than electricity. Any changes to the design or operating conditions of their system which violates this condition shall invalidate this Executive Order.

Marketing of the ePro System (new) using any identification other than that shown in this Executive Order or marketing of the ePro System (new) for an application other than those listed in this Executive Order shall be prohibited unless prior approval is obtained from the California Air Resources Board.

Exemption of the ePro System (new) shall not be construed as an exemption to sell, offer for sale, or advertise any component of the assembly as individual devices.

This Executive Order shall not apply to any ePro System (new) advertised, offered for sale, sold with, or installed on a new motor vehicle prior to or concurrent with transfer to an ultimate purchaser.

This Executive Order does not constitute any opinion as to the effect the use of ePro System (new) electric conversion system may have on any warranty either expressed or implied by the manufacturer.

In addition to the foregoing, the California Air Resources Board reserves the right to review this Executive Order and the exemption provided herein to assure that the exempted vehicle conversion kit continues to meet the standards and procedures of Title 13, California Code of Regulations, Sections 2222, et seq. and 2470, et seq.

THIS EXECUTIVE ORDER DOES NOT CONSTITUTE A CERTIFICATION, APPROVAL, OR ANY OTHER TYPE OF ENDORSEMENT BY THE CALIFORNIA AIR RESOURCES BOARD OF ANY CLAIM MADE BY THE APPLICANT CONCERNING THE RANGE, DURABILITY, OR SAFETY ASSOCIATED WITH THE USE OF MAXWELL VEHICLES, LLC EPRO SYSTEM (NEW).

Executed on this 8th day of October 2020.

Allen Lyons, Chief
Emissions Certification and Compliance Division

EXHIBIT-A

EXHIBIT A: Vehicle Models and Certification Data

Make	Model	Engine Manufacturer	Engine Model Year	EF #	Engine Displacement	EO #
RAM	ProMaster 1500/2500 /3500 FWD & 3500 CAB CHASSIS	Chrysler	2014	ECRXD03.65V0	3.6	A-009-1213
RAM	ProMaster 1500/2500 /3500 FWD & 2500/3500 CAB CHASSIS	Chrysler	2014	ECRXD03.05VV	3.0	A-009-1264
RAM	ProMaster 1500/2500 /3500 FWD & 2500/3500 CAB CHASSIS	Chrysler	2015	FCRXD03.65V0	3.6	A-009-1265
RAM	ProMaster 1500/2500 /3500 FWD & 2500/3500 CAB CHASSIS	Chrysler	2015	FCRXD03.05VV	3.0	A-009-1266
RAM	ProMaster 1500/2500 /3500 FWD & 2500/3500 CAB CHASSIS	FCA US	2016	GCRXD03.65V0	3.6	A-009-1279
RAM	ProMaster 1500/2500 /3500 FWD	FCA US	2016	GCRXD03.06VV	3.0	A-009-1296
RAM	ProMaster 1500/2500 /3500 FWD	FCA US	2017	HCRXD03.65P1	3.6	A-009-1325-1
RAM	ProMaster 3500 CAB CHASSIS	FCA US	2017	HCRXD03.65P2	3.6	A-009-1326
RAM	ProMaster 2500/3500 & 3500 CAB CHASSIS	FCA US	2018	JCRXD03.65V1	3.6	A-009-1368-1
RAM	ProMaster 1500/2500 /3500	FCA US	2018	JCRXD03.65V2	3.6	A-009-1369
RAM	ProMaster 3500 CAB CHASSIS	FCA US	2019	KCRXD03.65V1	3.6	A-009-1424
RAM	ProMaster 1500/2500 /3500	FCA US	2019	KCRXD03.65V2	3.6	A-009-1425