

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-750

Relating to Exemptions under
Section 27156 of the Vehicle Code

Odyne Systems, LLC

Pursuant to the authority vested in the Air Resources Board by Sections 27156 of the Vehicle Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: That installation of the ODYNE Plug-In Hybrid System, manufactured by Odyne Systems, LLC. of N4 W22610 Bluemound Road, Waukesha, Wisconsin 53186, has been found not to reduce the effectiveness of the applicable vehicle pollution control system, and therefore, the ODYNE Plug-in Hybrid System is exempt for the prohibitions in Section 27156 of the Vehicle code for installation on 2013-2015 model year heavy-duty diesel-powered vehicles with engine-vehicle combinations noted in Tables 1 and 2.

Table 1. Engines to Include in the Exemption.

| Engine Model Year | Engine Make | Engine Model Number | Engine Family | HP Rating | Displacement (L) |
|-------------------|----------------|---------------------|---------------|-----------|------------------|
| 2013 | Cummins | ISB6.7/PX-7 | DCEXH0408BAP | 200-360 | 6.7 |
| 2013 | Cummins | ISL9/PX-9 | DCEXH0540LAV | 260-450 | 8.9 |
| 2013 | Navistar | DT | DNVXH04660GA | 245-300 | 7.6 |
| 2013 | Navistar | N9/N10 | DNVXH05700GA | 300-350 | 9.3 |
| 2013 | Detroit Diesel | DD13 | DDDXH12.8FED | 350-500 | 12.8 |
| 2014 | Cummins | ISB6.7/PX-7 | ECEXH0408BAP | 200-360 | 6.7 |
| 2014 | Cummins | ISL9/PX-9 | ECEXH0540LAV | 260-450 | 8.9 |
| 2014 | Detroit Diesel | DD13 | EDDXH12.8FED | 350-500 | 12.8 |
| 2014 | Navistar | DT/N9/N10 | ENVXH05700GA | 215-350 | 7.6/9.3 |
| 2015 | Cummins | ISB6.7/PX-7 | FDTN2VOCV5V | 200-360 | 6.7 |

Table 2. Chassis and Engine Combinations to Include in the Exemption.

| Chassis Make | Chassis Model | Engine Model |
|---------------|----------------|-----------------------|
| Freightliner | M2 106/108SD | ISB6.7/ISL9 |
| Freightliner | 114SD | ISL9/DD13 |
| Freightliner | MT55 | ISB6.7 |
| International | 4300/4400 | DT/N9 |
| International | 7300/7400/7500 | DT/N9/N10/ISB6.7/ISL9 |
| Kenworth | T370 | PX-9 |
| Ford | F750 | ISB6.7 |

This exemption is based on evaluation of the ODYNE Plug-In Hybrid System under the "Procedures for Exemption of Add-On and Modified Parts" (Procedures), last amended June 1, 1990.

The ODYNE Plug-In Hybrid System includes the following major components:

| Component | Part Number | Description |
|-----------------------|--------------------|-------------------------|
| Inverter Traction | 10001 | Inverter |
| Motor | 10002 | Electric Traction Motor |
| Controller | 10005 | Hybrid Control Module |
| Energy Storage System | 10044 | Battery Pack |
| Energy Storage System | 10045 | Battery Pack |

This Executive Order is based on emission testing Odyne Systems, LLC. conducted with the ODYNE Plug-In Hybrid System. The Air Resources Board reserves the right to conduct additional emission tests in the future. If such test results demonstrate that the ODYNE Plug-In Hybrid System adversely affects emissions, this Executive Order shall be rescinded as of the date the test results are validated. Further, if such test results or other evidence provides the Air Resources Board with reasons to suspect that the ODYNE Plug-In Hybrid System will affect the durability of the emission control system, Odyne Systems, LLC. shall be required to submit durability data to show that the durability of the vehicle emission control system is not, in fact, affected and/or that the add-on or modified parts demonstrate adequate durability.

This Executive Order is valid provided that installation instructions for the ODYNE Plug-In Hybrid System do not recommend tuning the vehicles to specifications different from those of the vehicle manufacturer.

Changes made to the design or operating conditions of the ODYNE Plug-In Hybrid System, as exempt by the Air Resources Board, which adversely affect the performance of the vehicle's emission control system, shall invalidate this Executive Order.

Marketing of the ODYNE Plug-In Hybrid System using identification other than that shown in this Executive Order or for an application other than that listed in this Executive Order shall be prohibited unless prior approval is obtained from the Air Resources Board.

Exemption of the ODYNE Plug-In Hybrid System shall not be construed as exemption to sell, offer for sale, or advertise any component of the system as an individual device.

This Executive Order shall not apply to any ODYNE Plug-In Hybrid System advertised, or offered for sale, sold with, or installed on a motor vehicle prior to or concurrent with transfer to an ultimate purchaser.

No claim of any kind, such as "Approved by the Air Resources Board," may be made with respect to the action taken herein in any advertising or other oral or written communication.

In addition to the foregoing, the Air Resources Board reserves the right in the future to review this Executive Order and the exemption provided herein to assure that the exempted add-on or modified part continues to meet the standards and procedures of California code of Regulations, Title 13, Section 2222, et seq.

THIS EXECUTIVE ORDER DOES NOT CONSTITUTE A CERTIFICATION , ACCREDITATION, APPROVAL, OR ANY OTHER TYPE OF ENDORSEMENT BY THE AIR RESOURCES BOAORD OF ANY CLAIMS OF THE APPLICANT CONCERNING ANTI-POLLUTION BENEFITS OR ANY ALLEGED BENEFITS OF ODYNE SYSTEMS, LLC.'S ODYNE PLUG-IN HYBRID SYSTEM.

Violation of any of the above conditions shall be grounds for revocation of this Executive Order. The Executive Order may be revoked only after a ten-day written notice of intention to revoke the Executive Order, in which period the holder of the Executive Order may request in writing a hearing to contest the proposed revocation. If a hearing is requested, it shall be held within ten days of receipt of the request, and the Executive Order may not be revoked until a determination is made after the hearing that grounds for revocation exist.

Executed at El Monte, California this 15 day of September 2015



Annette Hebert, Chief
Emissions Compliance, Automotive Regulations and Science Division