

State of California
AIR RESOURCES BOARD

Small Off-Road Engine Evaporative Emission System Components

Executive Order C-U-06-030A
Fluid Routing Solutions*
Fuel Hoses

WHEREAS, Pursuant to California Health and Safety Code, sections 39600, 39601, and 43013, the California Air Resources Board (ARB) has established a certification process for evaporative emission system components designed to control gasoline emissions from small off-road engines, as described in California Code of Regulations, title 13, section 2767.1;

WHEREAS, Pursuant to California Health and Safety Code, section 43013, ARB has established criteria and test procedures for determining the compliance of evaporative emission system components with the design requirements in Cal. Code Regs., title 13, section 2754;

WHEREAS, Pursuant to Cal. Code Regs., title 13, section 2767.1, ARB Executive Officer may issue an executive order (EO) if he determines that the small off-road engine evaporative emission system components conform to the applicable performance requirements set forth in Cal. Code Regs., title 13, section 2754; and

WHEREAS, Pursuant to California Health and Safety Code, sections 39515 and 39516, ARB's Executive Officer issued EO G-05-008 delegating the Chief of ARB's Monitoring and Laboratory Division (MLD) authority to certify small off-road engine evaporative system components.

NOW, THEREFORE, I, Michael T. Benjamin, Chief of MLD, find that the Fluid Routing Solutions model Dayperm fuel hoses conform with the performance requirements set forth in Cal. Code Regs., title 13, section 2754, when tested at a constant temperature of 40°C, pursuant to SAE J1527 and GM9665P, using an approved test fuel of California Phase II Certification Fuel.

IT IS ORDERED AND RESOLVED that the Fluid Routing Solutions model Dayperm small off-road engine fuel hoses identified in Table 1 are certified for use in small off-road equipment.

Table 1
Dimensions and Tolerances for Fluid Routing Solutions Model
Dayperm Fuel Hoses

Nominal Inside Diameter and Tolerance (inch)	Minimum Fluoroplastic (THV) Thickness and Tolerance (inch)
0.1875* or greater \pm 0.016	0.005 \pm 0.001

IT IS FURTHER ORDERED that Fluid Routing Solutions shall provide a warranty to equipment manufacturers purchasing the model Dayperm fuel hoses. The warranty must conform to the requirements of Cal. Code Regs., title 13, section 2760.

IT IS FURTHER ORDERED that the certified Fluid Routing Solutions model Dayperm fuel hoses shall be installed in accordance with the manufacturer's installation and use instructions for Fluid Routing Solutions model Dayperm fuel hoses. A copy of this EO and fuel hose installation and use instructions shall be provided to manufacturers purchasing Fluid Routing Solutions model Dayperm fuel hoses for installation on small off-road engines and equipment introduced into commerce in California.

IT IS FURTHER ORDERED that Fluid Routing Solutions model Dayperm fuel hoses introduced into commerce in California shall be clearly identified by a permanent identification that allows ARB to identify the manufacturer's name, EO number, and model number.

IT IS FURTHER ORDERED that any alteration to the fuel hoses certified hereby is prohibited. Any alteration or modification of the design approved by this EO will require the manufacturer to apply for a new EO.

IT IS FURTHER ORDERED that the Fluid Routing Solutions model Dayperm fuel hoses shall be compatible with fuels in common use in California at the time of certification and any modifications to comply with future California fuel requirements shall be approved in writing by the Executive Officer or the Executive Officer's delegate.

IT IS FURTHER ORDERED that the component certification of the Fluid Routing Solutions model Dayperm fuel hoses can be referenced in certification applications for small off-road engines and equipment that use small off-road engines, unless the Executive Officer finds that the Fluid Routing Solutions model Dayperm fuel hoses no longer meet the performance requirements set forth in Cal. Code Regs., title 13, section 2754, when tested pursuant to Cal. Code Regs., title 13, section 2765.

Executed at Sacramento, California, this 16th day of April 2013.



Dr. Michael T. Benjamin, Chief
Monitoring and Laboratory Division

*At the manufacturer's request EO C-U-06-030A amended EO C-U-06-030 by changing the company's name from Mark IV Automotive to Fluid Routing Solutions and included a smaller hose size that was validated with additional test data.