

**Conditions for Component Swapping for the Hug Engineering, Inc. Mobiclean R  
Advanced Series Diesel Particulate Filter**

**Relating to Executive Order (EO) Series DE-12-001**

**Effective Date: September 9, 2014**

Hug Engineering, Inc. (Hug) may authorize owners of its verified diesel emission control strategies (DECS) to swap the diesel particulate filter (DPF) component of the DECS in accordance with the requirements described herein and in the *Verification Procedure, Warranty, and In-Use Compliance Requirements for In-Use Strategies to Control Emissions from Diesel Engines*, Title 13, *California Code of Regulations*, Sections 2700-2711 (Procedure). Component swapping means the movement of designated parts between different vehicles/applications which utilize same DECS. Swapping of the DPF component of the verified DECS is allowed under the corresponding EO series DE-12-001.

DPF swapping is subject to the following terms and conditions:

- The owner of the DECS must receive written authorization from Hug Engineering, Inc. allowing the practice of DPF swapping.
- A DPF may only be swapped between DECS that share the same DECS family name.
- Swapping only applies to the DPF component of the DECS.
- The recipient vehicle must be fitted with the same DECS.
- The donor vehicle or engine whose DPF has been removed and replaced with an alternate DPF from the same DECS family or vehicle receiving the swapped DPF must remain in compliance with the terms and conditions of the applicable EO and have all DECS components present and functional.
- Hug Engineering, Inc. must provide written instructions for assessing if the swapped DPF still meets its verified emissions reductions.
- Hug Engineering, Inc. must provide detailed written instructions to the authorized owner in the owner's manual, installation manual, or other manual regarding how to swap and install the DECS DPF. The installer must ensure that the recipient engine meets Hug's pre-installation compatibility criteria as required by Section 2706(t)(1) of the Procedure. Hug Engineering, Inc. may not include any prohibitions or limitations to the required warranty (Sections 2706(i)(3) and 2707 of the Procedure), nor can the instructions direct the owner of the DECS to conduct any activity which violates the terms of the governing EO series or any other applicable regulation.

- Within ten days of a written request from the California Air Resources Board (ARB), Hug Engineering, Inc. must provide an exact copy of these instructions in their entirety.
- Hug Engineering, Inc. must provide written instructions for assessing if the DECS still meets its verified emissions reductions and instructions to prevent installation of the DPF on an inappropriate vehicle.
- The swapped DPF must be installed by the procedure described in the DECS installation manual or other manual designated for swapping procedures.
- Hug Engineering, Inc. must honor the original product warranty and warranty period.
- The DPF cannot be swapped among DECS in different verification categories (e.g., the DPF of the DECS that is only verified for off-road vehicles cannot be installed into a DECS that is on an on-road vehicle).
- If the installer of the swapped DPF is not the same as the installer who did the original installation of the DECS, the new installer must assume the installation warranty responsibilities for the swapped DPF as defined in Section 2707 of the Procedure for the remainder of the original warranty period or until another installer swaps the component or re-designates the system. If the original installation warranty has expired or has less than one year remaining, the installer must issue a new warranty to guard against potential installation defects. The new installation warranty must meet the requirements of Section 2707 of the Procedure except that the minimum period is reduced to one year from the date of installation. Any transfer of a DECS or component by an installer that does not offer this installation warranty is not considered a valid installation.
- Hug Engineering, Inc. must maintain data that track the movement of swapped DPFs among vehicles equipped with the DECS. Hug Engineering, Inc. will do this by maintaining an internet-accessible data entry portal that is capable of receiving and storing data on swapped DPFs. For every swapped DPF, these records must include: DECS serial number, DPF part number, DPF serial number, name of the end-user, engines serial number, vehicle mileage or hours, and date of removal or installation. The party that removes or installs a swapped DPF is responsible for inputting the above data to the Hug Engineering, Inc. web portal each time a DPF is swapped. Hug Engineering, Inc. must provide these records to ARB within 30 days of receiving a written request from ARB.
- No party shall advertise, sell, lease, or offer for sale or lease a used DPF.

**Conditions for Component Re-Designation for the Hug Engineering, Inc.  
Mobiclean R Advanced Series Diesel Particulate Filter**

**Relating to Executive Order (EO) Series DE-12-001**

**Effective Date: September 9, 2014**

Re-Designation means the movement of a used verified diesel emission control strategies (DECS) from an appropriate engine/application and installation onto another engine/application meeting the terms and conditions of the DECS EO within the same common ownership fleet as defined in the *Verification Procedure, Warranty, and In-Use Compliance Requirements for In-Use Strategies to Control Emissions from Diesel Engines*, Title 13, *California Code of Regulations*, Sections 2700-2711 (Procedure). Re-designation of a Mobiclean R Advanced Series Diesel Particulate Filter system (DPF) is permitted only under the following terms and conditions:

- The end user must receive written authorization from Hug Engineering, Inc. (Hug) allowing the practice.
- The system must not be more than ten years old, based on the date of manufacture listed on the system label. Re-designation of devices of unknown age is prohibited.
- Re-designation must occur within the same common ownership fleet as defined in Section 2701 of the Procedure.
- The end user and installer must verify that the recipient vehicle meets the terms and conditions of the original verification. The installer must ensure that the recipient engine meets Hug's pre-installation compatibility criteria as required by Section 2706(t)(1) of the Procedure. If a Mobiclean R Advanced Series DPF system verified under a previous EO is selected for re-designation to an engine or application that has been excluded under the current EO, the re-designation must not be performed.
- The re-designated system must remain in compliance with the terms and conditions of the applicable EO and have all DECS components present and functional.
- A DECS installed on a vehicle that is repowered may remain installed provided:
  - The replacement engine meets all the terms and conditions of the applicable EO in the DE-12-001 series.
  - The Mobiclean R Advanced Series DPF system is not more than ten years old (based on the date of manufacture).
  - The verified DECS engine label is affixed to a visible location on the replacement engine.

- Hug Engineering, Inc. must provide detailed written instructions in the owner's manual and installation manual to the authorized end user regarding appropriate re-designation practices. Hug Engineering, Inc. may not include any prohibitions or limitations to the required warranty (Sections 2706(i)(3) and 2707 of the Procedure), nor can the instructions direct the owner of the DECS to conduct any activity which violates the terms of the governing EO series or any other applicable regulation.
- Within ten days of a written request by the California Air Resources Board (ARB), Hug Engineering, Inc. must provide an exact copy of these instructions in their entirety.
- Hug Engineering, Inc. must provide written instructions for assessing if the Mobiclean R Advanced Series DPF system still meets its verified emissions reductions, and instructions for device movement to prevent installation on an inappropriate vehicle.
- Re-designation applies to the entire system, not component parts.
- The re-designated Mobiclean R Advanced Series DPF system must belong to a verified configuration covered under the EO series DE-12-001.
- If the installer of the re-designated Mobiclean R Advanced Series DPF system is not the same as the installer who did the original installation of the DECS, the new installer must assume the installation warranty responsibilities defined in Section 2707 of the Procedure for the remainder of the original warranty period or until another installer re-designates the system. If the original installation warranty has expired or has less than one year remaining, the installer must issue a new warranty or guard against potential installation defects. The new installation warranty must meet the requirements of Section 2707 of the Procedure except that the minimum period is reduced to one year from the date of installation. Any transfer of a DECS or component by an installer that does not offer this installation warranty is not considered a valid installation.
- Hug Engineering, Inc. must maintain accurate records of the vehicles and systems subject to the re-designation policy. These must include: end user contact information, vehicle information numbers, Mobiclean R Advanced Series DPF system serial numbers, and operating hours and mileage. Hug Engineering, Inc. must be able to track re-designation throughout the fleet. Hug Engineering, Inc. must provide these records within 30 days of a written request by ARB.
- No party shall advertise, sell, lease, or offer for sale or lease a used verified Mobiclean R Advanced Series DPF system or component.
- Any party which removes a verified Mobiclean R Advanced Series DPF system from an engine must remove the verified DECS engine label. If the DECS engine label cannot be removed whole, the label must be defaced or otherwise destroyed.
- The original labels must be returned to Hug Engineering, Inc..

- Any re-designation system must have a verified re-designation label as shown on the Mobiclean R Advanced Series DPF system website below:

<http://www.arb.ca.gov/diesel/verdev/companies/hug/mobiclean-r.htm>

- Any party which removes a verified Mobiclean R Advanced Series DPF system from an engine must ensure the engine and vehicle return to their original factory configuration.
- The DECS can only be re-designated by a Hug-authorized installer.
- The installation of the re-designated system must be performed according to the procedures listed in the Mobiclean R Advanced Series DPF system installation manual.