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Nelson Global Products, Inc.
Diesel Particulate Filter (DPF) and Diesel Oxidation Catalyst (DOC)
Installation, Operation and Maintenance Guide

***NOTE: USA 49-State Legal – NOT Legal for State of California**



Nelson Global Products, Inc. (NGP) company, reserves the right to change content without prior notice. Consult with your NGP factory sales representative or customer service representative for any questions regarding the installation, operation, maintenance or warranty. Illustrations and photographs are for reference only as actual products may vary.

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Congratulations on your purchase of the Nelson Global Products Diesel Particulate Filter (DPF)! This emission system is manufactured with top quality components and is engineered using the latest cutting edge technology to provide unmatched operating reliability for years to come with a two year, unlimited mileage warranty.

When properly used, the Nelson Global Products DPF can bring forth excellent pressure drop that translates into both fuel economy benefits as well as increased engine power.

Please take the time to read this manual completely before attempting to install the system. A thorough understanding of this manual will ensure that you receive the maximum benefit from the system.

Your input can help make us better! If you find issues or have suggestions regarding the parts list or the installation procedure, please do not hesitate to contact us.

CAUTION



Every effort has been made to ensure the accuracy of the information contained in this material. All parts supplied are selected to specially fit the after-treatment assembly facilitate a complete installation. However, (NGP) cannot guarantee all parts fit as intended due to the variations of the filters by the manufacturer.

Please read this manual in its entirety before attempting installation.

CAUTION



Disclaimers:

Failure to carefully follow the installation instructions for your Nelson Global Products Filter could result in significant property damage, personal injury, injury to others or even death. Please take the time to read and thoroughly understand the instructions prior to installation. The instructions are as accurate as possible and may vary slightly from model year to model year. Professional installation is recommended.

Neither Nelson Global Products nor any of its employees, officers, directors, or shareholders will accept responsibility for improper use or installation of our products. Nelson Global Products is not responsible for the misuse, incorrect installation, or failure of any product we sell. Under no circumstances, including but not limited to negligence, will Nelson Global Products be liable for special or consequential damages that result from the use or inability to use our products. Nelson Global Products does not assume responsibility for any damage to the user, driver, passenger or vehicle resulting from the operation of a Nelson Global Products product.



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Contents List

The following checklist outlines what is included when purchasing a Nelson Global Products DPF or DOC:

- Installation, Operation and Maintenance Guide
- One (1) Nelson Global Products DPF or DOC
- Warranty Registration Form
- Two (2) Gaskets

Nelson Global Products DPF/DOC Installation

1. Pre-Installation requirements

In order to maximize the DPF's performance and life, the installation must meet these requirements. Failure to follow these instructions may void the warranty and could lead to device failure.

The following checklist outlines key engine condition aspects to be inspected prior to installation of a Nelson Global Products DPF. Any faults found should be corrected prior to installation.

1. Intake Air Filter Condition
2. Absence of Air intake System Leaks including charge air cooler
3. Exhaust Peak Opacity (over the SAE J1667 protocol
All engines.....<20% limit
Note: there should be no signs of blue smoke or white smoke
4. Exhaust System Integrity (including sensors, heat shields, clamps, brackets, etc.)
5. Absence of visual signs of engine oil, coolant, or diesel fuel present in exhaust system
6. Absence of Turbocharger Oil Seal Leaks
7. Absence of audible Combustion problems
8. Absence of excessive crankcase vent tube emissions if applicable



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ATTENTION



Engine problems must be resolved before installation of a Nelson Global Products DPF.

Nelson Global Products DPF may plug if the engine is not properly maintained. This is especially true when operated under low-load or low ambient temperature conditions, idled for extended periods of time or if the engine is not properly calibrated for the specific fuel-type being used. To prevent the occurrence of plugging, engine problems must be resolved prior to installing the Nelson Global Products DPF.

2. Installation Overview

Nelson Global Products DPF is a drop-in replacement of the OE Filter as depicted in the following illustrative example. Your installation may be different than shown.



WARNING



Take caution before handling exhaust parts. Exhaust parts may be hot immediately following engine operation.

3. OE Filter Removal

- a) Exhaust systems are hot after engine operation. Do not work on the exhaust until the temperature has cooled to a level where the filter can be safely handled. Severe injury could result if touching a hot exhaust system.
- b) Disconnect any sensors from the stock filter where applicable.
- c) Disconnect any controllers from the stock filter where applicable.
- d) Remove clamps and gaskets.
- e) Remove the stock filter.

ATTENTION



It is not a good idea to re-use gaskets. It is strongly recommended to utilize new gaskets each time a DPF is installed. Examine if clamps are fully functional and replace them if necessary



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4. Installation Procedure

- a) Clean the connecting flanges to obtain a smooth mounting surface.
- b) Install the (NGP) filter with the new gaskets – Do not fully tighten the clamps yet.
- c) Mount the controller on the (NGP) filter if applicable.
- d) Attach the sensors on the (NGP) filter couplings if applicable.
- e) Adjust the position of the (NGP) filter to suit after-treatment assembly if applicable.
- f) Tighten the clamps and the mountings until they are secure.
- g) Inspect all nuts and bolts and ensure they are all tight.
- h) Ensure there is adequate clearance between the (NGP) filter and any wiring or hoses that are sensitive to heat – Recommended clearance is 5”.
- i) Check your bolts and clamps after the first few rides to make sure nothing dislodges itself.

5. Post-installation Checklist

- a) Start the engine and operate at idle condition. Check the exhaust clamps to ensure there are no exhaust leaks.
- b) If applicable, connect a laptop computer to after-treatment controller and obtain a download. Ensure the download contains no warnings for the after-treatment system.
- c) Submit the warranty registration form. (Available at NGP website)

6. Maintenance

- a) To ensure that the (NGP) filter and engine performance are maintained, the filter must be cleaned (Filter De-Ashing) as per OE guidelines and maintenance schedules.
- b) Never use solvents, detergents, degreasers, water or pressure washers to clean a soot laden filter and or DOC.
- c) It is recommended to keep detailed maintenance records including description of the service item performed, the date, and the mileage or engine hours.

ATTENTION

Follow OE filter maintenance schedules and operation guidelines with the Nelson Global Products DPFs. Performing filter cleaning as prescribed by OE will extend product lifetime, ensure fuel economy, engine performance and protect your engine.



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