

# Diesel Particulate Filter & Diesel Oxidization Catalyst

## Installation, Operation & Maintenance Guide



AP Emissions Technologies Inc. (AP) company, reserves the right to change content without prior notice. Consult with AP Regional Sales Managers (RSMs) for any questions regarding the installation, operation, maintenance or warranty. Illustrations and photographs are for reference only as actual products may vary.



\*Not legal for sale or use in the state of California or areas where California emissions compliance is required.

DFIG0118

**www.durafit-exhaust.com**  
**Toll-free: 1-833-299-3288**  
**Email: info@durafit-exhaust.com**

## Table of Contents

Introduction	3
Contents List	3
Pre Installation Requirements	4
Pre Installation Checklist	4
OE DPF/DOC Removal	4
Installation Procedure	5
Post Installation Checklist	5
Maintenance	6



Every effort has been made to ensure the accuracy of the information contained in this manual. All parts supplied are selected to specially fit the aftertreatment assembly to facilitate a complete installation. However, AP cannot guarantee all parts fit as intended due to the variations of the filters/catalysts by the manufacturer.

Please read this manual in its entirety before attempting installation.



Failure to carefully follow the installation instructions for your DuraFit™ filter/catalyst 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 AP nor any of its employees, officers, directors, or shareholders will accept responsibility for improper use or installation of our products. AP 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 AP be liable for special or consequential damages that result from the use or inability to use our products. AP does not assume responsibility for any damage to the user, driver, passenger or vehicle resulting from the operation of a AP product.

## Introduction

Congratulations on your purchase of the DuraFit™ Diesel Particulate Filter (DPF) and/or DuraFit™ Diesel Oxidization Catalyst (DOC)! 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 three year, unlimited mileage warranty.

DuraFit™ DPFs/DOCs are a drop-in replacement of the OE filter/catalyst as depicted in the following illustrative example. Your installation may be different than shown.



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.



## Contents List

The following checklist outlines what is included when purchasing a DuraFit™ DPF or DOC:

- **Installation, Operation and Maintenance Guide**
- **One (1) DuraFit™ DPF/DOC**
- **Warranty Registration Form:**  
Go to [www.warranty.durafit-exhaust.com](http://www.warranty.durafit-exhaust.com) and submit the warranty registration form.
- **Two (2) Gaskets**

**[www.durafit-exhaust.com](http://www.durafit-exhaust.com)**  
**Toll-free: 1-833-299-3288**  
**Email: [info@durafit-exhaust.com](mailto:info@durafit-exhaust.com)**

## 1. Pre Installation Requirements

In order to maximize the DPF/DOC'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.



Engine problems must be resolved before installation of a DuraFit™ DPF/DOC.

Damage and/or premature plugging may occur to your DuraFit DPF/DOC 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 premature plugging, engine problems must be resolved prior to installing the DuraFit™ DPF/DOC.

## 2. Pre Installation Checklist

The following checklist outlines key engine condition aspects to be inspected prior to installation of a DuraFit™ DPF/DOC. Any faults found should be corrected prior to installation.

- Intake air filter cleanliness, restriction and overall condition
- Absence of air intake system leaks including charge air cooler
- Exhaust peak opacity (over the SAE J1667 protocol)
- All engines.....<20% limit
- Note: there should be no signs of smoke from the engine exhaust upstream of the aftertreatment system
- Exhaust system integrity (including sensors, heat shields, clamps, brackets, etc.)
- Absence of visual signs of engine oil, coolant or diesel fuel present in exhaust system
- Absence of turbocharger oil seal leaks
- Absence of audible combustion problems
- Absence of excessive crankcase vent tube emissions if applicable
- Absence of engine/aftertreatment control module trouble codes, whether they are active or inactive

## 3. OE DPF/DOC Removal



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.

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

1. Disconnect any sensors from the stock filter/catalyst where applicable.
2. Disconnect any controllers from the stock filter/catalyst where applicable.
3. Remove clamps and gaskets.
4. Remove the stock filter/catalyst.



## 4. Installation Procedure

The following steps are to be followed in conjunction with OE specifications.



It is not a good idea to re-use the gaskets. It is strongly recommended to utilize new gaskets each time a DPF/DOC is installed.

Examine if clamps are fully functional and replace them if necessary.

1. Clean the connecting flanges to obtain a smooth mounting surface.
2. Install the DuraFit™ filter/catalyst with the new gaskets – Do not fully tighten the clamps yet. Mount the controller on the DuraFit™ filter/catalyst if applicable.
3. Attach the sensors on the DuraFit™ filter/catalyst couplings if applicable.
4. Adjust the position of the DuraFit™ filter/catalyst to suit aftertreatment assembly if applicable.
5. Tighten the clamps and the mountings per OE specifications.
6. Inspect and ensure all nuts and bolts are tightened per OE specifications.
7. Ensure there is adequate clearance between the DuraFit™ filter/catalyst and any wiring or hoses that are sensitive to heat – Recommended clearance is 5”.

## 5. Post Installation Checklist

1. Start the engine and operate at idle condition. Check the exhaust clamps to ensure there are no exhaust leaks.
2. If applicable, connect a laptop computer to aftertreatment controller and obtain a download. Ensure the download contains no warnings for the aftertreatment system.
3. Go to **[www.warranty.durafit-exhaust.com](http://www.warranty.durafit-exhaust.com)** and submit the warranty registration form.
4. Install product sticker either on the engine valve cover.

## 6. Maintenance

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



Follow OE filter/catalyst maintenance schedules and operation guidelines with the DuraFit™ DPF/DOC. Performing filter/catalyst cleaning as prescribed by the original equipment manufacturer will ensure proper product life.

**\*Not legal for sale or use in the state of California or areas where California emissions compliance is required.**



**www.durafit-exhaust.com**

**Toll-free: 1-833-299-3288**

**Email: [info@durafit-exhaust.com](mailto:info@durafit-exhaust.com)**

Product features and attributes vary by application/part number, please ask your distributor for details on specific units.

DuraFit™ units are not available for sale in California at this time.

DuraFit™ and Designed to Fit. Built to Last.™ are trademarks of AP Emissions Technologies, Inc. all other brands are trademarks of their respective owners.

DuraFit™ DPFs and DOCs are proudly made in the North America, some gaskets and V-Band clamp assemblies may originate from other countries.

2018 © Copyright AP Emissions Technologies DuraFit™ DPF/DOC Guide Rev. 1 v1 (24 Jan 2018)