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## MagnaFlow 24177

# MagnaFlow 24177 HM Grade Direct-Fit Catalytic Converter Instruction Manual

Model: 24177 | Brand: MagnaFlow

## INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your MagnaFlow 24177 HM Grade Direct-Fit Catalytic Converter. Designed for professional installation, this catalytic converter meets Federal/EPA requirements and is engineered for direct bolt-on fitment to specific vehicle applications. Please read these instructions thoroughly before proceeding with installation.

**Important Note:** Federal catalytic converters are not legal for sale, installation, or use on vehicles registered in the state of California, Colorado, or New York. Please verify local regulations before purchase and installation.

## PACKAGE CONTENTS

- MagnaFlow 24177 HM Grade Direct-Fit Catalytic Converter
- *(Additional hardware, if required for specific applications, may be sold separately or included depending on the kit.)*

## SETUP AND INSTALLATION

The MagnaFlow 24177 catalytic converter is designed for direct bolt-on installation, replicating original equipment specifications. While most applications do not require welding, cutting, or bending, some specific installations may necessitate additional welding for optimal fitment. Professional installation is highly recommended.



**Figure 1:** Exploded view of the MagnaFlow 24177 Catalytic Converter, showing the main unit and accompanying gaskets for installation.

### Pre-Installation Checks:

- Verify that the catalytic converter model 24177 is compatible with your vehicle's year, make, and model.
- Inspect the new catalytic converter for any shipping damage.
- Ensure all necessary tools and safety equipment are available.
- For rusted bolts, apply a penetrating oil 8-12 hours prior to starting the installation to ease removal.



## Direct-Fit Installation

State-of-the-art 3D scanning is used to ensure this Direct-Fit Catalytic Converter perfectly fits your vehicle.



All required hardware included. Professional installation highly recommended. Image is for illustrative purposes only. Actual product may vary.

**Figure 2:** Illustration of advanced 3D scanning technology used in the design process to ensure precise direct-fit installation for the catalytic converter.

### Installation Steps (General Guidelines):

1. Safely lift and secure the vehicle on a hoist or jack stands.
2. Locate and remove the existing catalytic converter. This may involve disconnecting oxygen sensors and unbolting flanges.
3. Clean mating surfaces on the exhaust system to ensure a proper seal.
4. Position the new MagnaFlow 24177 catalytic converter, aligning it with the existing exhaust pipes.
5. Install new gaskets and securely bolt the converter into place. Ensure all connections are tight to prevent exhaust leaks.
6. Reconnect any oxygen sensors that were removed.
7. Lower the vehicle and start the engine to check for exhaust leaks and proper operation.

The mandrel-bent tubing and OE-sized barbed exhaust hangers are designed to match OEM specifications, ensuring smooth exhaust flow and reduced noise/vibration.

### OPERATION AND COMPLIANCE

The MagnaFlow 24177 catalytic converter is engineered to convert harmful pollutants in exhaust gases into less

toxic substances, meeting Federal/EPA emission standards. Its design ensures optimal flow dynamics, maintaining factory performance and fuel efficiency.



**Figure 3:** Visual confirmation of the product's 100% EPA compliance, indicating extensive testing and certification processes to meet federal emission standards.

#### **Identifying an EPA Compliant Converter:**

Each MagnaFlow EPA-compliant catalytic converter includes specific markings. These markings typically include a manufacturer's code issued by the EPA, an indicator for a new converter, a numerical designation for the vehicle application, and the month and year of manufacture. These details confirm the product's authenticity and compliance.



# IDENTIFYING AN EPA Compliant Catalytic Converter



Manufacturer's code issued by EPA

(XX)

Indicates a new converter

(X)

Numerical designation of the  
vehicle application for part number

(XXXXXXX)

Month and year of manufacture

(XXXX)



*\*For illustrative purposes only. Actual product may vary.*

**Figure 4:** Detailed view of the markings on a catalytic converter, illustrating how to identify an EPA compliant unit with codes for manufacturer, new converter status, part number application, and manufacturing date.

## MAINTENANCE

Catalytic converters are generally maintenance-free components. However, regular vehicle maintenance, including proper engine tuning and timely oil changes, is crucial to ensure the longevity and efficient operation of your catalytic converter. Malfunctions in other engine components (e.g., faulty oxygen sensors, misfires) can lead to premature converter failure.

- Periodically inspect the exhaust system for leaks or damage.
- Ensure oxygen sensors are functioning correctly.
- Address any engine warning lights promptly.

## TROUBLESHOOTING

If you experience issues after installing your catalytic converter, consider the following:

- **Check Engine Light (P0420 Code):** A P0420 code (Catalyst System Efficiency Below Threshold) indicates the catalytic converter is not operating efficiently. This can sometimes occur even with a new converter if other engine issues are present (e.g., faulty O2 sensors, engine misfires, exhaust leaks). Ensure all related

components are in good working order.

- **Exhaust Leaks:** Listen for hissing or roaring sounds, which may indicate an exhaust leak at the flanges or welds. Re-check all connections and tighten bolts as necessary.
- **Fitment Issues:** While designed for direct fit, minor discrepancies can occur. If the converter does not align perfectly, re-check the vehicle application and ensure all components are correctly seated. Professional assistance may be required for adjustments or additional welding.
- **Increased Noise:** If the exhaust system is significantly louder after installation, verify that all connections are sealed and that the converter itself is not damaged.

## SPECIFICATIONS

Feature	Detail
<b>Brand</b>	MagnaFlow
<b>Model Number</b>	24177
<b>Grade</b>	HM Grade
<b>Compliance</b>	Federal/EPA Compliant (Not legal for sale/use in CA, CO, NY)
<b>Material</b>	16 gauge 409 Stainless Steel Tubing, 410 Stainless Steel Hangers
<b>Design</b>	Direct-Fit, Mandrel Bent Tubing, OE-sized Barbed Hangers
<b>Item Weight</b>	6 pounds
<b>Product Dimensions</b>	29.25 x 13.63 x 6.13 inches
<b>OEM Part Numbers</b>	18160-PND-A00, 18160-PND-S00, 18160-PNF-A01, 18160-PNF-A00

## WARRANTY INFORMATION

MagnaFlow EPA compliant catalytic converters are protected against any defects in construction for the first 5 years or 50,000 miles, whichever comes first. Additionally, emissions performance is covered for 25,000 miles. This warranty provides assurance of product quality and compliance.



## Enjoy Peace of Mind

EPA compliant catalytic converters are protected against any defects in construction for the first 5 years/50,000 miles & emissions for 25,000 miles.

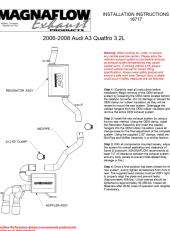
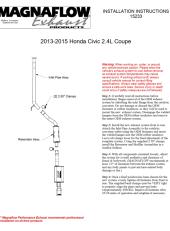
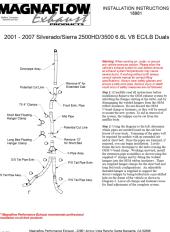
**Figure 5:** An image illustrating the peace of mind provided by MagnaFlow's warranty, covering construction defects for 5 years/50,000 miles and emissions for 25,000 miles.

## SUPPORT

For further assistance, technical support, or warranty claims, please contact MagnaFlow customer service directly. You can find contact information on the official MagnaFlow website. When contacting support, please have your product model number (24177) and purchase details readily available.

## LEGAL DISCLAIMER

**This MagnaFlow catalytic converter is not legal for sale, installation, or use on vehicles registered in the state of California, Colorado, or New York. Please check local and state regulations before purchasing and installing this product.**

	<p><a href="#">MagnaFlow Toyota Tundra Overland Cat-Back Exhaust System Installation Instructions Part No. 19604</a></p> <p>Comprehensive installation guide for the MagnaFlow Overland Cat-Back Exhaust System (Part No. 19604) designed for the Toyota Tundra. This document details the bill of materials, required tools, shop supplies, hardware kit, and provides step-by-step instructions for a professional installation.</p>
	<p><a href="#">MagnaFlow Exhaust System Installation Guide for Canyon/Colorado 2.7L (Part 19650)</a></p> <p>Detailed installation instructions for the MagnaFlow performance exhaust system (Part 19650) for Chevrolet Canyon and GMC Colorado 2.7L models. Includes bill of materials, tools, hardware, and step-by-step guidance.</p>
	<p><a href="#">Magnaflow Exhaust Installation Instructions for 2006-2008 Audi A3 Quattro 3.2L</a></p> <p>Step-by-step installation guide for Magnaflow Performance Exhaust system (Part 16717) on 2006-2008 Audi A3 Quattro 3.2L vehicles, including safety precautions and component descriptions.</p>
	<p><a href="#">Magnaflow Exhaust Installation Instructions for 2013-2015 Honda Civic 2.4L Coupe</a></p> <p>Step-by-step installation guide for Magnaflow Performance Exhaust systems on the 2013-2015 Honda Civic 2.4L Coupe, including safety warnings and recommended procedures.</p>
	<p><a href="#">Magnaflow 18981 Exhaust System Installation Instructions for 2001-2007 Silverado/Sierra 2500HD/3500 6.6L V8 EC/LB Dual</a></p> <p>Detailed installation guide for the Magnaflow 18981 dual exhaust system, designed for 2001-2007 Chevrolet Silverado and GMC Sierra 2500HD/3500 models with the 6.6L V8 engine (EC/LB).</p>
	<p><a href="#">Magnaflow Performance Exhaust &amp; Catalytic Converters for BMW 5 Series</a></p> <p>Explore Magnaflow's comprehensive catalog of performance exhaust systems and catalytic converters designed for various BMW 5 Series models, featuring detailed specifications, part numbers, and pricing.</p>

