



Diesel Exhaust Fluid — Part 2

Warning

Diesel Exhaust Fluid (DEF) is corrosive. Do not allow it to come in contact with your skin, eyes, or the finished surfaces of the vehicle. If exposed, it may cause skin and eye irritation. Wear skin and eye protection when handling. Inhalation may cause irritation to the upper respiratory tract. Store in a cool, well-ventilated area. For more safety information, see the label of the DEF container.

DEF is used with diesel engines to reduce the amount of regulated emissions produced. The fluid level in the DEF tank must be maintained for the vehicle to run correctly. The capacity of the DEF tank is approximately 5 gal. (18.9 L).

LOCATING DIESEL EXHAUST FLUID

DEF can be purchased at a Chevrolet or GMC dealer. It can also be purchased at authorized vehicle and truck dealerships. Additionally, some diesel truck fueling stations or retailers may also have DEF for purchase. For vehicles with an active OnStar® subscription, OnStar can help to locate a DEF retailer. For more information on locating DEF, see www.afdc.energy.gov/afdc/vehicles/diesels_fluid.html. See “Customer Assistance Offices” in the Owner’s Manual for phone numbers to assist you in contacting a GM dealer. See “Recommended Fluids and Lubricants.”

FILLING THE DEF TANK

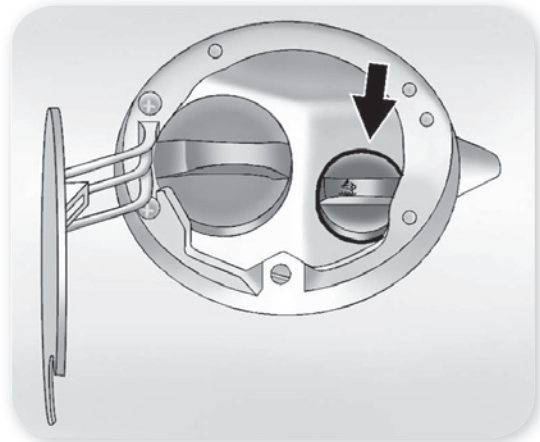
Warning

Use only exhaust fluid that is GM approved, or fluid containing the API certified or ISO 22241 label. The use of other fluids could damage the system, requiring costly repairs that will not be covered by the vehicle warranty. When adding DEF to an empty or very low tank, always add at least one gallon (3.78 liters) of fluid to release the vehicle from speed limitation.

Do not overfill the DEF tank. When fluid reaches the top of the fill pipe, stop filling. Do not top off the DEF tank. If you spill DEF on the vehicle while filling the tank, wipe the surface with a damp cloth.

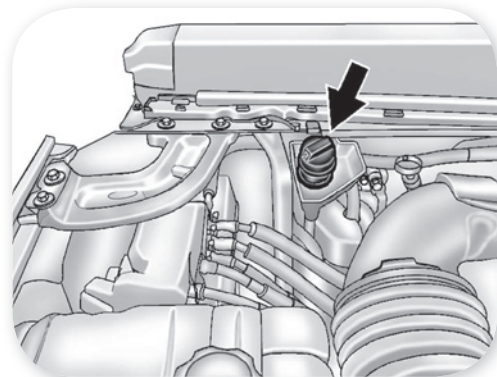
DEF Fill — Vans

For vans, the DEF fill is located behind the fuel fill door. The DEF cap is blue, and diesel cap is green. Fill tube location for chassis-cab and cutaway vans finished by an upfitter will vary. Check the upfitter’s manual.



DEF Fill — Pickups

For full-sized pickups, the DEF fill is located under the hood, on the passenger side, at the back of the engine compartment. The DEF cap is blue.





EXHAUST FLUID LOW WARNINGS

A full DEF tank will last for several thousand miles (kilometers), depending on vehicle usage. As the exhaust fluid level drops, warnings will be displayed in the Driver Information Center (DIC). There will not be any DEF range DIC messages with more than 1,000 miles (1,600 km) of DEF range remaining. DIC messages will begin with approximately 1,000 miles (1,600 km) of range, and as the tank becomes empty, vehicle speed limitation will result. To avoid vehicle speed limitations, the DEF tank should be refilled at the first opportunity after a low warning indication. If DEF is added before the EXHAUST FLUID EMPTY message appears, it may take several miles/km for the DIC message to update. If the vehicle speed has been limited and DEF has been added, it may take up to 30 seconds after engine start with the vehicle stopped for the EXHAUST FLUID EMPTY message to clear. If the vehicle is driven prior to the DIC message clearing, the vehicle speed will still be limited. If the DIC message clears while driving, the vehicle must be completely stopped to remove the speed limitation.

If DEF is added under freezing conditions, additional time may be required to remove speed limitations.

A DIC message EXHAUST FLUID RANGE: XXX will be displayed at approximately 1,000 miles (1,600 km) of fluid range remaining. This message will appear again at approximately 300 miles (500 km) of range remaining before the exhaust fluid tank becomes empty.

Below 300 miles (500 km) of range remaining, these messages will appear every time the vehicle is started.

If these warnings are ignored and the DEF tank becomes empty, a DIC message 55 MPH (89 KM/H) MAX SPEED UPON RESTART will be displayed. There will also be a warning light and chime. The vehicle will be speed-limited to 55 mph (89 km/h) at the next restart.

When adding DEF to an empty or very low tank, always add at least one gallon (3.78 liters) of fluid to release the vehicle from speed limitation. The capacity of the DEF tank is approximately 5 gal. (18.9 L).

If the vehicle continues to be driven without filling the DEF tank, it will be limited to 4 mph (7 km/h) after the second fuel fill.

See "Vehicle Messages," "Diesel Exhaust Fluid (DEF) Warning Light" and "Recommended Fluids and Lubricants" for more information.

EXHAUST FLUID QUALITY POOR

Use only exhaust fluid that is GM approved, or fluid containing the API certified or ISO 22241 label.

All DEF has an expiration date. If the system detects poor quality, contaminated, or diluted DEF, the DIC will display EXHAUST FLUID QUALITY POOR. SEE OWNER'S MANUAL NOW. Adding fresh DEF to the system may resolve the problem, depending on several factors. If the DIC message persists, see your dealer.

After 200 miles (322 km) of driving without correcting the problem, a DIC message 55 MPH (89 KM/H) MAX SPEED UPON RESTART will be displayed. There will also be a warning light and chime. The vehicle will be speed-limited to 55 mph (89 km/h) at the next restart.

If the problem is not resolved after 500 miles (805 km) of operation, speed will be limited to 4 mph (7 km/h) after the next fuel fill.

SERVICE EXHAUST FLUID SYSTEM

If a problem occurs with the DEF system, the DIC will display SERVICE EXHAUST FLUID SYSTEM. SEE OWNER'S MANUAL NOW. In some cases this message will clear itself, indicating that the DEF system was able to correct the condition. If the DIC message persists, see your dealer.

After 200 miles (322 km) of driving without correcting the problem, a DIC message 55 MPH (89 KM/H) MAX SPEED UPON RESTART will be displayed. There will also be a warning light and chime. The vehicle will be speed-limited to 55 mph (89 km/h) at the next restart.

If the problem is not resolved after 500 miles (805 km) of operation, speed will be limited to 4 mph (7 km/h) after the next fuel fill.

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Job Description	Diesel Exhaust 2-Additional Tool Tips March 2012				Art Director	anelson	Colors In-Use	User	Printer	Output Date
Bleed	8.75" x 11.25"	Mech Scale	100	Copy Writer	TBD	30x30_diagonal_line_pattern.ai	Cyan	ma-jpicard-mac	mykanos	3-26-2012 3:35 PM
Trim	8.5" x 11"	Print Scale	100%	Proj Mgr	csenn	GM_FCO_Primary_Divisional.ai	Magenta	Mechd By: nminieri	RTVd By: TBD	
Live	None	Stock	None	Acct Svc	kdenmark	Tech Tip Diesel Exhaust Fluid (DEF) Part 2.pdf	Yellow			
Folded Size	None			Prod Mgr	afinnan		Black			
Finishing	None			Art Buyer	TBD		PMS 288 C			
Colors Spec'd	4C			Copy Edit	TBD					
Special Instr.	None			Mac	nminieri					
Publications	None									

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