

Subject
A700250 – KIT, INBOARD AOST, UNDERHOOD™ 150, FORD 2017+

System or Parts affected

- 2017+ Ford F250 – F550 Super Duty® vehicles where the Air Oil Separator Tank (AOST) will be relocated to the “midship” location.

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Overview

VMAC now offers an accessory kit for UNDERHOOD 150 cfm systems in all current Ford installs to mount the air-oil separator tank inboard of the vehicle frame. This document outlines the vehicle compatibility requirements for A700250.

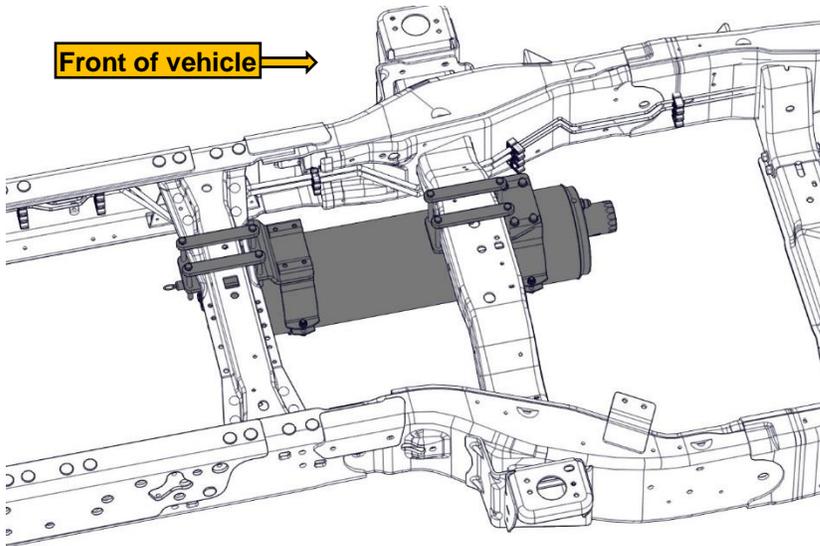


Figure 1– Optional AOST mount location

Benefits

- Increased AOST ground clearance
- Compatible with stock Ford running boards and most custom step rails

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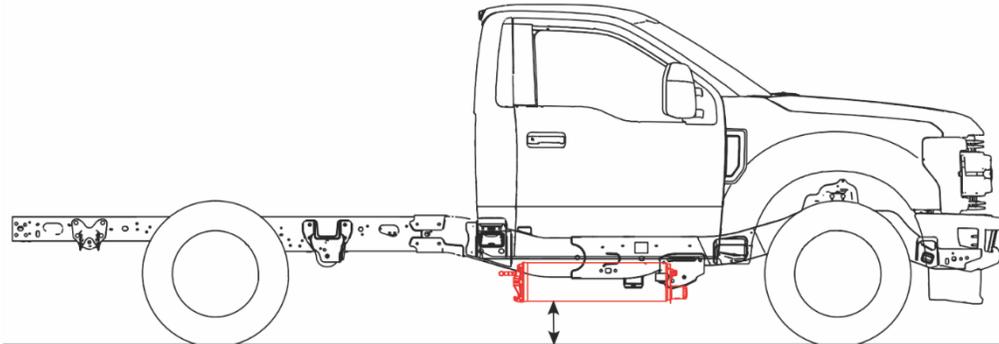


Figure 2 - Standard AOST Location, Passenger Side Frame Rail

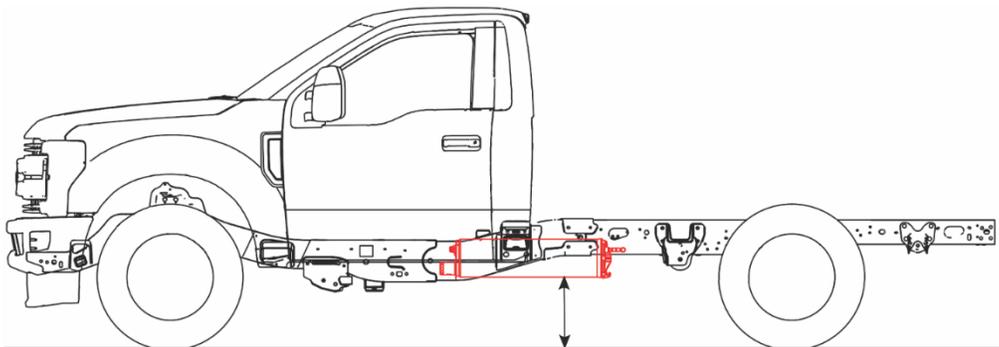


Figure 3 - A700250 Relocated AOST, Driver's Side Inboard of Frame

Before you order

- Read the section below on vehicle compatibility.
- Verify the designated vehicle meets the requirements

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Compatible Vehicles

The A700250 Inboard AOST mount kit is compatible with:

- Make: Ford
- Years: 2017 onward
- Chassis Cab vehicles only (no pickups or box-delete)
- Models: F350, F450, F550
- Engine: All
- Wheelbase: All
- Drive: 4x4 and 4x2
- Cab: All
- No midship fuel tank fitted (refer to Figure 4 below)
- See Special Compatibility Notes:
 - Pg. 4: regular cab, 4x4, diesel engine vehicles
 - Pg. 5: Regular cab, Gasoline engine vehicles with 145 in. wheelbase (60 in. cab to axle)

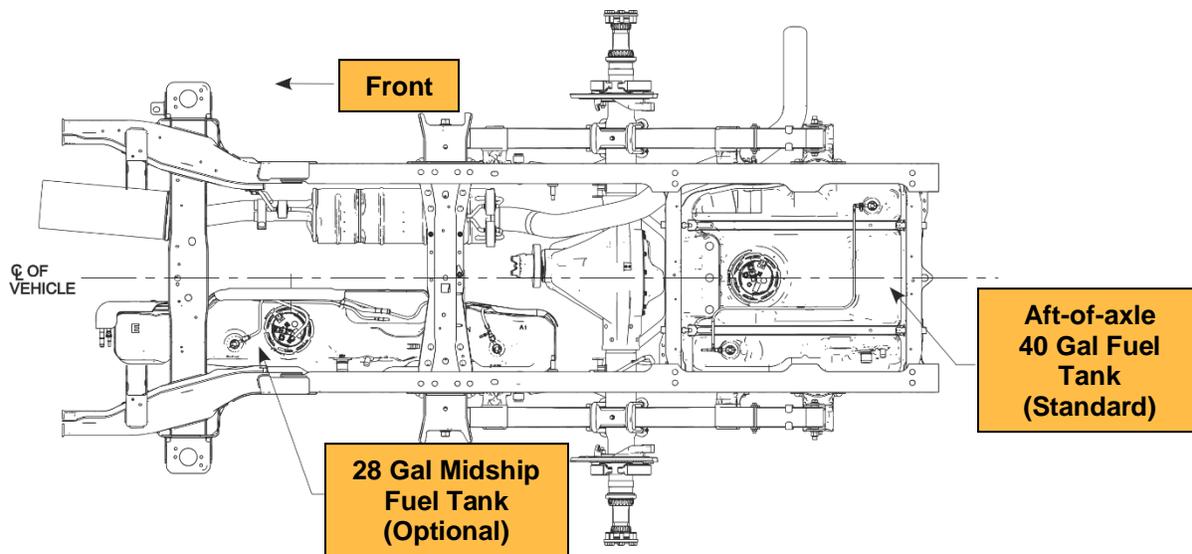


Figure 4 – Fuel Tank identification, all vehicles

About Fuel Tank Options

The 40 gal “aft-of-axle” fuel tank is the more common tank, fitted as standard on almost all chassis vehicles (except F350 SRW). The aft-of-axle tank is available on all chassis vehicles. The aft-of-axle tank is compatible with the A700250 accessory kit.

The 26 gal “midship” fuel tank is an available option on most Ford F-series chassis vehicles. The only exception is the F350 SRW, where the midship tank is fitted as standard.

The dual tanks option on diesel vehicles also includes this tank.

To successfully fit the A700250 accessory kit, this midship tank cannot be present.

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Special Compatibility Note: 4x4 Diesel Vehicles with Regular cab

Diesel vehicles fitted with a regular cab may not have adequate length in the specified location to accommodate the AOST. When such vehicles are fitted with 4x4 transmissions, the distance between the rear of the transfer case and the DEF tank will not be adequate to fit the VMAC air-oil separator tank. (Vehicles fitted with longer cabs will not experience this problem)

Regular Cab	6.7L V8	4x4
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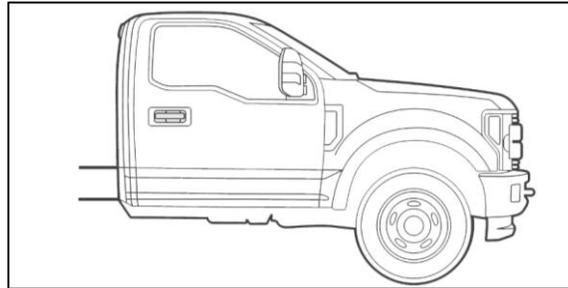


Figure 5

Check for clearance

To check the fit of the air-oil separator tank before ordering, measure the distance from the DEF tank forward to the 4x4 transfer case (see Figure 6 below).

NOTE The AOST needs a minimum of 50 in to install successfully (depending on discharge fittings installed on the AOST).

If there is insufficient clearance, the DEF tank can be relocated to the outside frame rail. Ford has introduced an approved provision for relocating the DEF tank using Ford components (see [Ford SVE bulletin Q-267](#)).

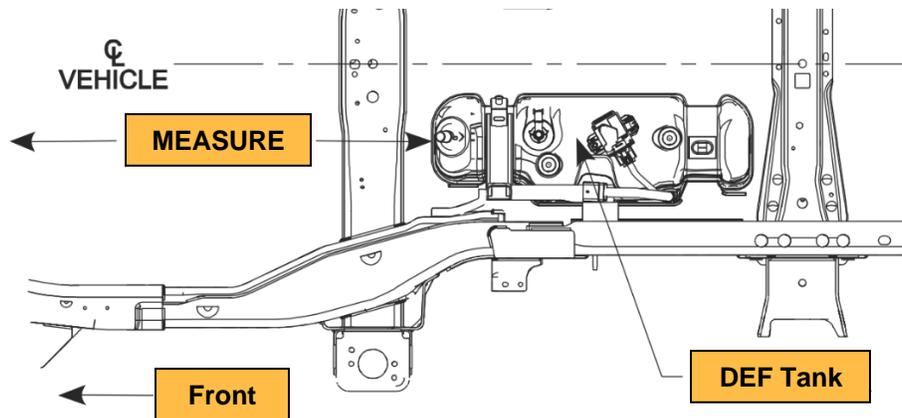


Figure 6 – DEF Tank location, diesel vehicles

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Special Compatibility Note: Chassis Cab with Regular Cab and 145 in. Wheelbase (60 in. from Cab to Rear Axle), Gasoline Vehicles.

The frames of chassis cab vehicles with a regular cab and the short 145 in. wheelbase (60 in. from the cab to the rear axle) figure 8, are manufactured with one less crossmember than the longer frames, figure 7.

In gasoline powered vehicles, an evap. canister is present under the next rearward cross-member. As such, an AOST cannot be mounted inboard in vehicles of this configuration.

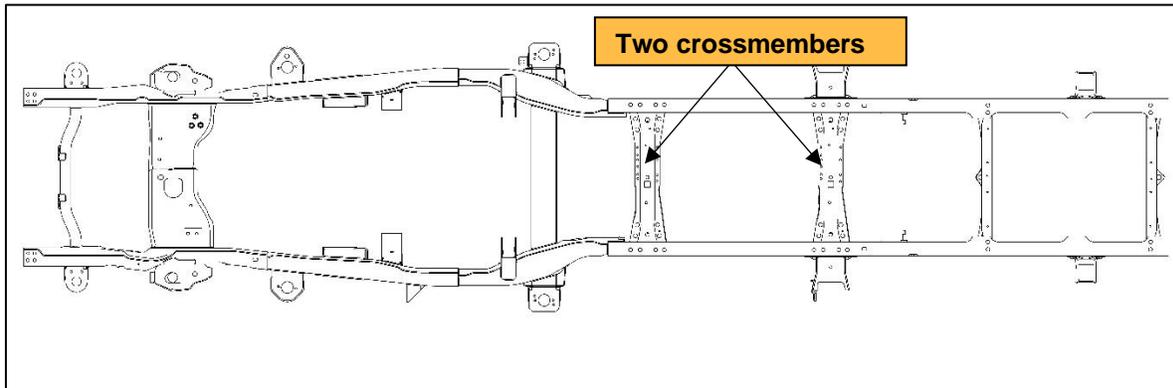


Figure 7 – two crossmember 169 in. wheelbase frame

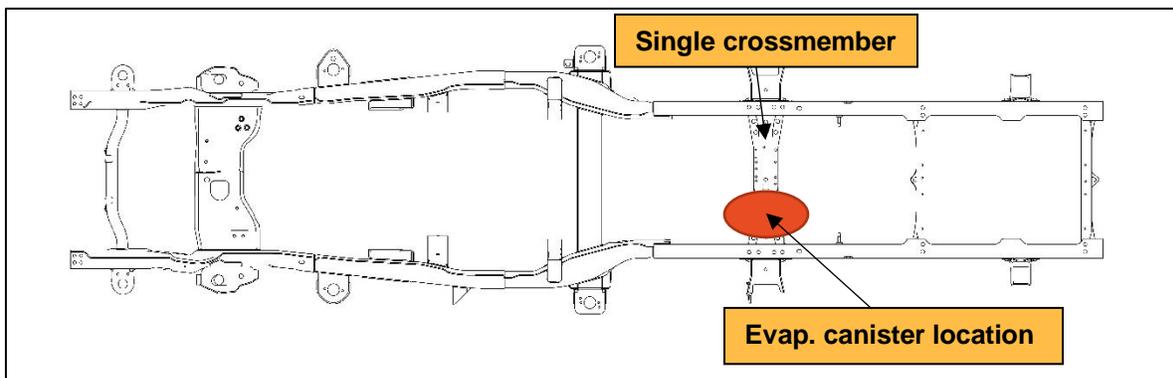


Figure 8 – single crossmember 145 in. wheelbase frame

If you have any questions or concerns, contact VMAC Technical Support 1-888-241-2289.

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