



PETERBILT

ESSENTIALS

MODULE 9

FUEL TANKS



CLASS PAYS

PETERBILT NEW ESSENTIALS – MODULE 9

INTRODUCTION

This module will focus on features of Peterbilt fuel tanks. Built in three diameters and with capacities ranging from 40 to 150 gallons, Peterbilt fuel tanks can satisfy almost any trucker owner's needs.

HOW TO USE NEW PETERBILT ESSENTIALS

1. Print the module and study the information. To print, click the printer icon on your browser. Highlight material that is new to you, or complex.
2. When you are ready to take the online test, click the "Begin" button in the "Test" column for the desired module. When the test is completed, it will automatically be scored and the results will be entered in the Peterbilt training records database.
3. Upon successful completion of all modules, you will receive a personalized certificate.

It is recommended that you complete these training modules in sequence since each succeeding module builds on the previous module.



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FUEL TANKS

Peterbilt proprietary fuel tanks are stylish, strong and available in three diameters: 20-, 23-, and 26-inch. The 23-inch diameter tank is available in both aluminum and steel; the 20- and 26-inch diameter tanks are available in aluminum only. All tanks are labeled and identified by usable capacity.

Peterbilt fuel tanks are equipped with a welded-in fitting to accept the return fuel line, support the fuel gauge sending unit and accommodate the fuel tank vent. By combining these items in one location, Peterbilt reduces the number of access openings in the tank and simplifies the task of servicing the tanks and their accessories. Good design and tank integrity are standard on all Peterbilt fuel tanks.

Rigorous Testing Ensures Strength

The construction and materials in Peterbilt fuel tanks have been certified to meet or exceed Federal Motor Vehicle Safety Standards, as verified by the results of random drop tests. A 30-foot drop at a 45-degree angle, simulating a 35 mph impact, ensures the integrity of the horizontal and circular welds, and minimizes the chance of fuel leakage in the event of a crash. A 10-foot horizontal drop test is also conducted to test the fill neck itself and the fill neck boss weld.

Fuel Tank Cap

The Peterbilt fuel tank cap is the best in the industry for efficiency, ease of operation and security. The cap's design features a paddle-style latch that takes just a 1/8 turn to close, which makes it extremely easy to use – even when the operator is wearing gloves. The cap is also designed with a compression seal and pressure relief poppet, and it can be optionally specified to include an integral key lock.



Peterbilt Fuel Tank Cap

The pressure relief poppet in the cap is normally closed. It opens only in an emergency when tank pressure exceeds 10 psi. The fuel tank vent is separate from the cap and is mounted on top of the tank. This tank vent “breathes” as the tank fuel levels go up and down. This tank vent also has rollover protection. If the truck rolls on its side or upside down, the tank vent seals itself closed.

Peterbilt trucks have certain “styling cues” that identify them as Peterbilts. The radii used on the tank end caps are one of our styling cues. The paddle type fuel cap is also a styling cue, since most of our competitors use a smaller threaded cap.

Brackets and Straps

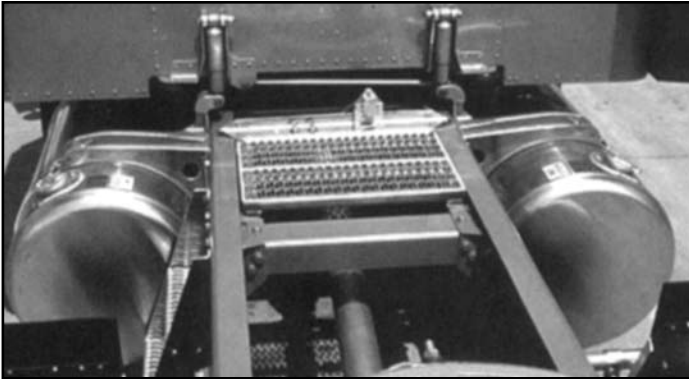


Peterbilt Fuel Tank Brackets

Peterbilt's over-slung cast aluminum fuel tank brackets and heavy gauge stainless steel retention straps are designed for strength and efficiency. There is asphalt-impregnated fabric webbing under the straps. This webbing is not seen because it is under the stainless strap material. The straps and brackets are made to handle stresses well in excess of anticipated loads, and they also afford superior ground clearance under the tanks and easy access to the underside of the vehicle.

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On most models, the standard fuel tank mounting locations are right-hand and left-hand, back-of-cab. On some models, the standard mounting location is right-hand, under-cab. These standard mounting locations keep the battery box left-hand and under-cab, close to the engine starter and provide excellent driver access to the cab. Optional locations and space for additional fuel tanks are usually available, depending on frame rail space.

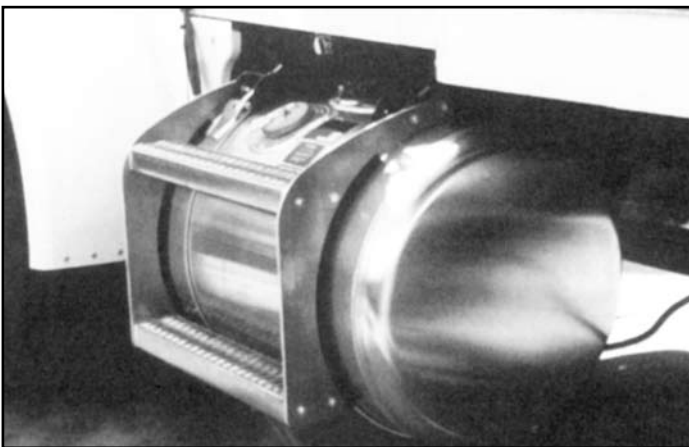


Standard Conventional Fuel Tank Mounting Locations

Fuel Tank Steps

Peterbilt's full-width fuel tank steps are lightweight, strong and self-cleaning. Access to the cab or the top of the frame on a Peterbilt is made easy and safe by practical step design and grab handle placement.

The appearance of a vehicle is often enhanced by polished fuel tank components. Peterbilt offers polished aluminum tanks, tank straps and tank steps.



Fuel Tank Steps

Hydraulic Tanks

If a vehicle requires a PTO, a hydraulic tank might be needed as well; Peterbilt offers hydraulic tanks factory-installed. At first glance, a Peterbilt hydraulic tank may appear to be an additional fuel tank, but its purpose is to store sufficient hydraulic fluid for hydraulically operated equipment, such as a dump bed, a trash compactor or a moving trailer floor. Hydraulic tanks are available in a 23-inch diameter and range in capacity from 50 to 70 gallons. Because of limited frame rail space or customer preference, a split fuel/hydraulic tank is occasionally specified; a split tank is, as the name suggests, a single tank that has two interior spaces, one for fuel and the other for hydraulic fluid.