O P E R A T O R'S
MANUAL
Peterbilt
CLASS PAYS

Conventional Models

2007 EPA Compliant Vehicles

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California Proposition 65 Warning

- Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.
- Other chemicals in this vehicle are also known to the State of California to cause cancer, birth defects or other reproductive harm.
- Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

PART 1: INTRODUCTION

This manual contains useful information for the safe and efficient operation of your Peterbilt vehicle. It also provides information on maintaining your vehicle in the best condition, with an outline for performing safety checks and basic preventive maintenance inspections.

We have tried to present the information you'll need to learn about your vehicle's functions, controls, and operation - and to present it as clearly as possible. We hope you'll find this manual easy to use.

Please remember -- this manual is not a training manual. It can't tell you everything you need to know about driving your Peterbilt vehicle. For that you need a good training program or truck driving school. If you have not been trained, get the proper training before you drive. Only qualified drivers should drive this vehicle.

There will be times when you need to take this manual out of your Peterbilt. When you do, please be sure to return it to the cab when you are finished using it. That way it will be there when you need it the next time or when you pass the vehicle on to the next user.

How To Find What You Want

There are several tools built into this manual to help you find what you need quickly and easily.

First is the **Quick Table of Contents**. Located at the front of the manual, this lists the main subjects covered and gives page numbers where you can find these subjects. Use the Quick Table of Contents to find information on a large subject like "Maintenance."

Cross-referenced citations also help you get the information you need. If some other part of the manual contains further information on the subject you are reading about, we'll indicate that in a cross-reference like this: (See "PART 6: DRIVER'S CHECKLIST"). You won't have to go searching for more information.

Finally you'll find a helpful **Subject Index**. It's in the back of the manual and alphabetically lists the subjects covered. So if you want information on brakes, for example, just look under Brake in the Subject Index. You'll find all the pages listed where brakes or braking are discussed.

A Special Word About Repairs



WARNING! Attempting repair work without sufficient training, service manuals, and the proper tools can be dangerous. You could be injured or you could make your truck unsafe. Do only those tasks you are fully qualified to do.

Your Peterbilt dealer's service center is the best place to have your vehicle repaired. You can find Peterbilt dealers all over the country with the equipment and trained personnel to get you back on the road quickly - and keep you there.

Your vehicle is a complex machine. Anyone attempting repairs on it needs good mechanical training and the proper tools. If you are sure you have these requirements, then you can probably perform some repairs yourself. However, all warranty repairs must be performed by an authorized Peterbilt service facility. If you aren't an experienced mechanic, or don't have the right equipment, please leave all repairs to an authorized service facility. They are the ones equipped to do the job safely and correctly.

Maintenance Manuals. If you do decide to do any complex repair work, you'll need the Peterbilt Maintenance manuals. Order them from your authorized dealer. Please provide your Chassis Serial Number when you order, to be sure you get the correct manuals for your vehicle. Allow about four weeks for delivery. There will be a charge for these manuals.

Final Chassis Bill of Material. A complete, nonillustrated computer printout listing of the parts used to custom-build your Peterbilt vehicle is available through the Peterbilt dealer from whom your purchased your vehicle.



WARNING! Modifying your vehicle can make it unsafe. Some modifications can affect your truck's electrical system, stability, or other important functions. Before modifying your vehicle, check with your dealer to make sure it can be done safely.

Additional Sources of Information

Operator's manuals are also supplied by the manufacturers of components such as the engine, seats, transmission, and radio in your Peterbilt. If you are missing any of these manuals, ask your Peterbilt dealer to supply them.

Your new Peterbilt's glove box also contains a copy of the **Truck Driver's Handbook**, published by the American Trucking Association. Refer to it for important information on driving your vehicle. Another place to learn more about

trucking is a local truck driving school. Contact one near you to find out what kinds of instruction it offers.

Federal and state agencies also have information you can ask for. The Interstate Commerce Commission can give you information about regulations governing transportation across state lines. And various agencies in state governments are sources for regulations that differ from state to state.

Warnings

We've put a number of warning messages in this manual. They are there for your protection and information. Please read them and follow them. They can help you to avoid injury to yourself and your passengers as well as to prevent costly damage to your vehicle. We've used certain symbols and "signal words" to indicate what kind of message is going to follow. When you see these symbols & words, you know that you need to pay special attention. Please don't ignore any of these signals.



WARNING!

When you see this symbol & word, the message that follows is especially vital. This signals something that can cause serious injury or death. This message will tell you what the hazard is, what can happen if you don't heed the warning, and how to avoid it. For example:



WARNING! Attempting repair work without sufficient training, service manuals, and the proper tools can be dangerous. You could be injured or you could make your vehicle unsafe. Do only those tasks you are fully qualified to do.



CAUTION:

This symbol & word signals something that could damage your vehicle. You might receive an injury, too. For example:



CAUTION: Continuing to operate a vehicle with insufficient oil pressure will cause serious engine damage.



Gives you information we feel you'd like to have. It could have to do with care of your vehicle or with driving more efficiently:



NOTE: A cold compressor can cause refrigerant to liquefy and warp the valve plates or cause a hydraulic lock. Warm the engine before starting the air conditioner.

Please take the time to read these messages when you see them. And remember:

WARNING! Something that could injure you seriously.

CAUTION: Something that could cause injury to you or your vehicle.

NOTE: Useful information.

Vehicle Safety

Make sure your Peterbilt is in top working condition before heading out on the road—it is the *responsible* driver's duty to do so. Inspect the vehicle according to <u>"PART 6:</u> DRIVER'S CHECKLIST."



WARNING! Do not drink and drive. Your reflexes, perceptions, and judgment can be affected by even a small amount of alcohol. You could have a serious—or even fatal accident—if you drive after drinking. Please do not drink and drive or ride with a driver who has been drinking.



WARNING! The use of alcohol, drugs, and certain medications will seriously impair perception, reactions, and driving ability. These circumstances can substantially increase the risk of an accident and personal injury.

Please remember, this manual is not a training manual. It cannot tell you everything you need to know about driving your Peterbilt vehicle. For that you need a good training program or truck driving school. If you have not been trained, get the proper training before you drive. Only qualified drivers should drive this vehicle.

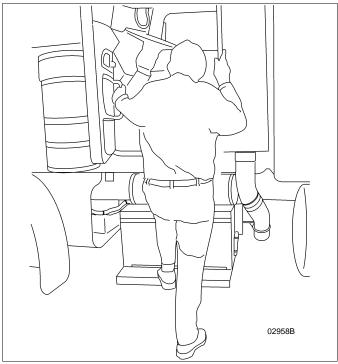
Every new Peterbilt vehicle is designed to conform to all Federal Motor Vehicle Safety Standards applicable at the time of manufacture. However, even with these safety features, continued safe and reliable operation depends greatly upon regular vehicle maintenance. The vehicle must be operated within the range of its mechanical capabilities and the limits of its load ratings. (See the Tire and Rim Weight Ratings label on the driver's door edge.)

PART 2: CAB AND FRAME ACCESS

Be careful whenever you get into or out of your vehicle's cab. Always maintain at least three points of contact with your hands on the grab handles and your feet on the steps.



WARNING! Jumping out of the cab or getting into the cab without proper caution is dangerous. You could slip and fall, possibly suffering a serious injury. Keep steps clean. Clean any fuel, oil, or grease off of the steps before entering the cab. Use the steps and grab handles provided, and always keep at least three points of contact between your hands and feet and the truck. Look where you are going. The picture below shows the best way to enter and exit a Conventional Cab.



Door Lock and Keys

Doors can be locked from the inside by using the lock button. Close the door then push the button down to lock. Doors automatically unlock when you open them from inside, and can be locked from the outside with the key only.



WARNING! To lessen the chance and/or severity of personal injury in case of an accident, always lock the doors while driving. Along with using the lap/shoulder belts properly, locking the doors helps prevent occupants from being thrown from the vehicle.

To lock or unlock the doors from outside the cab, insert the key in the lock. Turn the key toward the rear to lock; forward to unlock.

Keys and Locks

The same key fits your ignition, doors, and sleeper luggage compartment.

Frame-mounted tool box locks and locking fuel tank caps each have individual keys.

Remote Keyless Entry (optional)

This vehicle may be equipped with a Remote Keyless Entry (RKE) system that adds security and convenience to your vehicle. The system will lock or unlock the driver's door and passenger's door with the key fob and alert you with parking lights when the selected door's are locked or unlocked. The system includes two key fobs that provide secure rolling code technology that prevents someone from recording the entry signal.

Operation

To Unlock The Driver's Door

Press the UNLOCK button once. The driver's door will unlock and the parking lights will come on for 40 seconds.

To Unlock The Passenger's Door

Press the UNLOCK button once and press again within 5 seconds. The passenger door will unlock.

To Lock Both Doors

Press the LOCK button. The doors will lock and the parking lights will come on for 2 seconds. If the doors are open they will not lock. The range of the RKE sys-

tem should be approximately 30 ft. This will be reduced if it is operated close to other RF sources such as TV/radio transmitters and cell towers.

Batteries

The key fob uses one CR2032, 3V battery. Batteries should last approximately three years, depending on use. Consistently reduced range is an indicator that the battery needs replacement. Batteries are available at most discount, hardware and drug stores.

To Replace The Battery

- 1. Remove rear cover from key fob.
- 2. Remove the battery.
- 3. Install new battery.
- 4. Reinstall cover.
- 5. Synchronize the key fob.

Synchronization

The key fob may need to be synchronized to the truck when the battery is replaced or when the key fob has not been used for an extended period time. To Synchronize A Key Fob

1. Hold the key fob near the receiver.

NOTE: The receiver is located behind the Speedometer/ Tachometer cluster assembly.

- 2. Press and hold both the Lock and Unlock buttons at the same time for approximately 7 seconds.
- 3. When the key fob is resynchronized, the doors will lock then immediately unlock.
- 4. If the fob fails to synchronize, it could be programmed to a different truck or could have failed. Contact your dealer to re-program your key fob.

Climbing Onto the Deck Plate

When you are climbing onto and off the deck plate, maintain at least three points of contact with your hands on the grab handles and your feet on the steps.



WARNING!

- You can be hurt if you aren't careful climbing onto and off the deck plate. You can slip and fall, especially if the surfaces are wet or icy, or if you step in oil, fuel, or grease. Keep steps clean. Always maintain at least three points of contact between your hands and feet and the steps and deck plate.
- Do not climb onto and off the deckplate—use steps and grabhandle provided. If there is no deck plate, or if proper steps and grab handles aren't provided, don't climb onto the area behind the cab. Peterbilt did not intend for the area to be a step if handrails or proper steps are not provided.

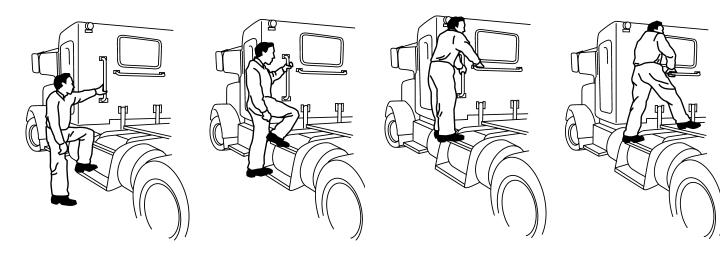


WARNING! Do not step on vehicle components without antiskid surfaces or use components not designed for entry-and-exit use. You could fall and injure yourself if you step on a slippery surface. For example:

- You could fall and injure yourself if you step onto a fuel tank surface. A fuel tank is not a step. The tank surface can get very slippery, and you might not be able to prevent a fall. Don't step onto the surface of a fuel tank. Use only the steps and handholds provided, not chain hooks, quarter fenders, etc.
- Always reinstall steps before entering the cab or accessing the deck plate. Without steps, you could slip and fall, resulting in possible injury to yourself.
- NOTE: Any alteration (adding bulkheads, headache racks, tool boxes, etc.) behind the cab or sleeper that affects the utilization of grab handles, deck plates, or frame access steps installed by Peterbilt must comply with FMCSR 399.

The pictures on the next page show you the right way to get on and off the area behind your cab.

CLIMBING ONTO THE DECK PLATE



Hold handles as you step up.

Maintain three points of contact.

Maintain three points of contact as you reach the deck area.

Maintain three points of contact as you step to deckplate.

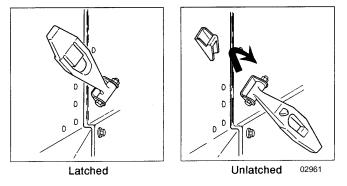
PART 3: GETTING TO YOUR ENGINE

Hood Hold Downs

Hood hold downs keep a hood from opening unexpectedly



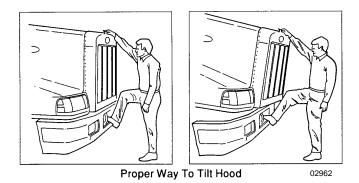
CAUTION: A hood not latched securely could open during operation and cause vehicle damage. Be sure to latch the hood securely.



Hood Tilt

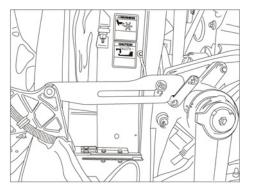
To open your hood, unlock the hood hold downs by unlatching them. Put one hand on the top of the hood front, one foot on the bumper, and one foot on the ground. Tilt the hood forward

WARNING! Before opening or closing a hood, ensure no people or objects are in the way. A hood could hurt someone in the way of its descent. If the hood falls, anyone under it could be injured. Always ensure the hood hold-open latch is engaged to keep the hood open any time anyone gets under the hood for any reason.

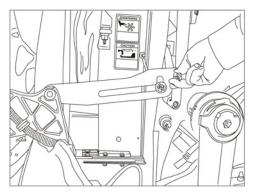


Hood Hold-Open Device

The hood is equipped with a hood hold-open device. In order for the hood hold-open device to become engaged, the vehicle hood must be fully open. Once the vehicle hood is fully open, the hold-open latches will automatically engage and will need to be disengaged by the operator.



To disengage the latch for hood closure, rotate the release lever fully forward.



WARNING!

• Ensure the hood is fully opened. Failure to fully open the hood will prevent engagement of the hold-open device causing possible serious bodily injury.

• Ensure the hold-open device is engaged when underneath hood. A closing hood can crush causing possible serious bodily injury.



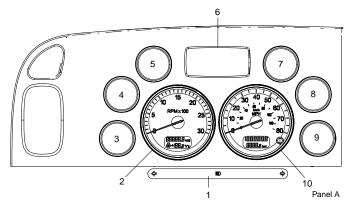
WARNING! Keep people or objects clear when opening or closing a hood. Failure to do so can cause hood to strike or crush causing possible serious bodily injury and/or property damage.

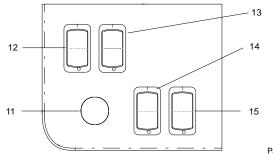
PART 4: CONTROLS AND DISPLAYS

Your Instrument Panel

This part explains the location of the various features on your vehicle and describes their function. For information on using these features in driving, see the paragraphs that follow. Please remember that each Peterbilt is custommade. Your instrument panel may not look exactly like the one in the pictures that follow. We have tried to describe the most common features and controls available. You can pick out the parts that apply to you and read them to be fully informed on how your particular vehicle operates.

Typical Conventional Cab Instruments and Controls





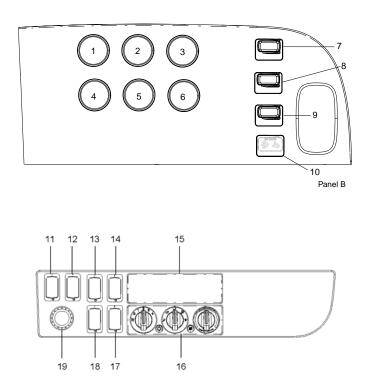
LEFT SIDE

1	Directional Signal and High Beam Indicators (standard) (Note: Custom warning lights are added in this area.)
2	Tachometer
3	Oil Pressure
4	Coolant Temperature
5	Voltmeter
6	Driver Information Display
7	Fuel Level
8	Primary Air Pressure
9	Secondary Air Pressure
10	Speedometer
11	Ignition Key Switch
12	Headlamps
13	Clearance Lamps
14	Panel Light Dimmer
15	Hazard Flasher

Panel C



Conventional

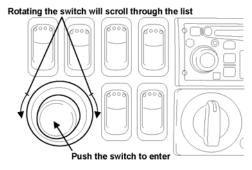


RIGHT SIDE

1 Oil Temperature 2 Transmission Oil Temperature 3 Front Driver Oil Temperature 4 Brake Application Pressure 5 Air Cleaner Restriction 6 Rear Driver Oil Temperature 7 Air Suspension Deflate 8 Fifth Wheel Lock 9 Interaxle Differential Lock 10 Exhaust Regeneration Display 11 Engine Fan 12 Fuel Tank Selector 13 Engine Brake On/Off 14 Engine Brake Selector 15 Radio 16 HVAC Control Panel 17 Cruise Control Select 16 HVAC Control Select		
3 Front Driver Oil Temperature 4 Brake Application Pressure 5 Air Cleaner Restriction 6 Rear Driver Oil Temperature 7 Air Suspension Deflate 8 Fifth Wheel Lock 9 Interaxle Differential Lock 10 Exhaust Regeneration Display 11 Engine Fan 12 Fuel Tank Selector 13 Engine Brake On/Off 14 Engine Brake Selector 15 Radio 16 HVAC Control Panel 17 Cruise Control Select	1	Oil Temperature
4 Brake Application Pressure 5 Air Cleaner Restriction 6 Rear Driver Oil Temperature 7 Air Suspension Deflate 8 Fifth Wheel Lock 9 Interaxle Differential Lock 10 Exhaust Regeneration Display 11 Engine Fan 12 Fuel Tank Selector 13 Engine Brake On/Off 14 Engine Brake Selector 15 Radio 16 HVAC Control Panel 17 Cruise Control Select	2	Transmission Oil Temperature
5 Air Cleaner Restriction 6 Rear Driver Oil Temperature 7 Air Suspension Deflate 8 Fifth Wheel Lock 9 Interaxle Differential Lock 10 Exhaust Regeneration Display 11 Engine Fan 12 Fuel Tank Selector 13 Engine Brake On/Off 14 Engine Brake Selector 15 Radio 16 HVAC Control Panel 17 Cruise Control Select	3	Front Driver Oil Temperature
6 Rear Driver Oil Temperature 7 Air Suspension Deflate 8 Fifth Wheel Lock 9 Interaxle Differential Lock 10 Exhaust Regeneration Display 11 Engine Fan 12 Fuel Tank Selector 13 Engine Brake On/Off 14 Engine Brake Selector 15 Radio 16 HVAC Control Panel 17 Cruise Control Select	4	Brake Application Pressure
7 Air Suspension Deflate 8 Fifth Wheel Lock 9 Interaxle Differential Lock 10 Exhaust Regeneration Display 11 Engine Fan 12 Fuel Tank Selector 13 Engine Brake On/Off 14 Engine Brake Selector 15 Radio 16 HVAC Control Panel 17 Cruise Control Select	5	Air Cleaner Restriction
8 Fifth Wheel Lock 9 Interaxle Differential Lock 10 Exhaust Regeneration Display 11 Engine Fan 12 Fuel Tank Selector 13 Engine Brake On/Off 14 Engine Brake Selector 15 Radio 16 HVAC Control Panel 17 Cruise Control Select	6	Rear Driver Oil Temperature
9 Interaxle Differential Lock 10 Exhaust Regeneration Display 11 Engine Fan 12 Fuel Tank Selector 13 Engine Brake On/Off 14 Engine Brake Selector 15 Radio 16 HVAC Control Panel 17 Cruise Control Select	7	Air Suspension Deflate
10 Exhaust Regeneration Display 11 Engine Fan 12 Fuel Tank Selector 13 Engine Brake On/Off 14 Engine Brake Selector 15 Radio 16 HVAC Control Panel 17 Cruise Control Select	8	Fifth Wheel Lock
11 Engine Fan 12 Fuel Tank Selector 13 Engine Brake On/Off 14 Engine Brake Selector 15 Radio 16 HVAC Control Panel 17 Cruise Control Select	9	Interaxle Differential Lock
12 Fuel Tank Selector 13 Engine Brake On/Off 14 Engine Brake Selector 15 Radio 16 HVAC Control Panel 17 Cruise Control Select	10	Exhaust Regeneration Display
13 Engine Brake On/Off 14 Engine Brake Selector 15 Radio 16 HVAC Control Panel 17 Cruise Control Select	11	Engine Fan
14 Engine Brake Selector 15 Radio 16 HVAC Control Panel 17 Cruise Control Select	12	Fuel Tank Selector
15 Radio 16 HVAC Control Panel 17 Cruise Control Select	13	Engine Brake On/Off
16 HVAC Control Panel 17 Cruise Control Select	14	Engine Brake Selector
17 Cruise Control Select	15	Radio
	16	HVAC Control Panel
40 Original Operators LOG (Off	17	Cruise Control Select
18 Cruise Control On/Off	18	Cruise Control On/Off
19 Menu Control Switch (MCS)	19	Menu Control Switch (MCS)

Instruments And Controls Menu Control Switch (MCS)

The MCS is used to navigate the Driver Information Display unit. The Menu Control Switch is located on the D Panel as shown in the illustration below.



The MCS has the following functions:

- Rotating the MSC
 - Selecting display
 - Setting values

• Pushing the MSC

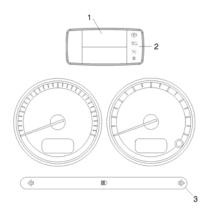
- Confirming desired selection

Standard Warning Lights and Audible Alarm

The warning lights and audible alarm may indicate a system malfunction. Check the lights frequently, and respond properly as soon as you see one go on. These lights could save you from a serious accident.



WARNING! Do not ignore a warning light or audbile alarm. These signals tell you something is wrong with your vehicle. It could be a failure in an important system, such as the brakes, which could lead to an accident. Have the appropriate system checked immediately.



- 1. Driver Information Display
- 2. Status Indicator

3. Lower Light Bar

Warning lights and indicator symbols will be shown in both areas 1 and 2. Area 3 is dedicated to the turn and high beam indicator symbols.

1. Driver Information Display:

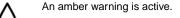
The display can show up to six warning lights. Warnings do not have fixed positions and are displayed in order of criticality. The most critical warning will be displayed on the top row and to the left. If more than six warnings are active, the menu control switch (MCS) can be used to scroll through the additional warnings.

2. Status Indicator:

Additional lights and indicator symbols are displayed in the Status Indicator. They are limited to:

- a. Park Brake
- b. Transmission Gear (Automatic transmissions only)
- c. Warnings:

Number of active warnings. A red warning is active.



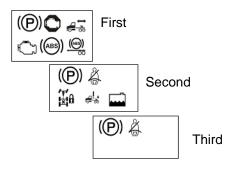
- d. Cruise Control active
- e. Clock alarm bell

Refer to "Warning Light / Indicator Symbols" on page 19 for information on each symbol.

Instrument System Self Test:

When the ignition switch is turned on the instrumentation system will undergo a Self Test. This test will verify the operation of the gauges and warnings.

During the Instrumentation System Self Test, three screens will sequentially display warning icons (approximately 3 seconds each screen) on the Information Display. These are:



Refer to "Warning Light / Indicator Symbols" on page 19 for information on each symbol.

Completing this sequence will indicate a successful Self Test. Have your instrumentation system checked by a qualitfied service technician if does not successfully complete.

Audible Alarm:

The audible alarm will sound during the Instrumentation System Self Test. The audible alarm will also sound in conjunction with most warning lights. These events include but are not limited to headlight on, fifth wheel, stop engine, primary/secondary air, and driver door open warnings.

Optional Lights:

Additional lights may be operational depending on individual vehicle specifications. These will be included in the Instrument System Self Test.



NOTE: Some optional lights may illuminate even though your vehicle is not equipped with that particular feature.