



**MODEL 270**  
**OPERATOR'S MANUAL**

**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.


## FOREWORD

### How to use this handbook

This handbook contains information for you, the driver, to enable you to operate the vehicle as efficiently and safely as possible and generally to make your driving easier and more satisfying. Besides subjects such as operating instructions, attention also focuses on maintenance and minor repairs which you may be able to carry out yourself.

 **NOTE:** *This handbook is based on the chassis and components as it originally left the factory. Depending upon the required body and equipment, the bodybuilder may have made fundamental changes to various parts or systems, such as the instrument panel, the lighting, or the electrical wiring.*

The vehicles covered by this handbook consist of various types and models. Individual vehicles are constructed in accordance with all Federal Motor Vehicle Safety Standards and in accordance with the expected operating conditions. Certain descriptions or illustrations in this handbook may therefore not correspond entirely to the situation on your own vehicle. However, this has no influence on its operation or maintenance.

 **IMPORTANT:** *Ensure that this handbook is in the vehicle at all times and read it carefully before making your first journey, especially the “**Safety precautions**”, “**Technical items of special impor-***

*tance*”, “**Instruments and controls**” and “**Driving**” sections of this handbook.

In addition to this handbook (available from your dealer) the following publications have also been produced:

Bodybuilders’ guidelines  
Maintenance manual

For information on how to order the above publications, please contact your dealer.

### Safety Signals

A number of alerting messages are in this manual. Please read and follow them. They are there for your protection and information. These messages can

help you avoid injury to yourself, your passengers, and help prevent costly damage to the vehicle.

Key symbols and “signal words” are used to indicate what kind of message is going to follow. Pay special attention to instructions preceded by symbols and signal words “WARNING”, “CAUTION”, or “NOTE”. Please do not ignore any of these alerts.

© PACCAR Inc. 9/00

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form, whether electronic, or mechanical, or by photocopying, recording, or other means without prior permission of PACCAR Inc.

## WARNING



When you see this word, the message that follows is especially vital. It signals a **potentially hazardous situation** which, if not avoided, could result in death or serious injury. This message will tell you what the hazard is, what can happen if you don't heed the warning, and how to avoid it.

Example:



***WARNING! Never carry additional fuel containers in the vehicle. Such containers, full or empty, may leak, explode or cause a fire in the event of a collision.***

## CAUTION



Signals a **potentially hazardous situation** which, if not avoided, could result in minor or moderate injury or damage to the vehicle.

Example:



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

## NOTE



Provides general information: for example, the note could warn you on how to avoid damaging your vehicle or how to drive the vehicle more efficiently.

Example:



***NOTE: Pumping the accelerator will not assist in starting the engine.***

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.



---

# CONTENTS

## **Foreword**

---

How to use this handbook.....	i
Safety Signals .....	i

## **Contents**

---

### **General**

---

<b>Safety Precautions .....</b>	<b>1</b>
General .....	1
Engine.....	1
Cooling System.....	1
Components.....	2
Electrical .....	2
Oils and Lubricants .....	3
Maintenance Activities .....	3
Chassis Frame .....	3
Vehicle Load .....	4
First Aid Kit.....	4
Winter Driving Conditions .....	4
<b>Items of Special Importance.....</b>	<b>5</b>
Break-in.....	5
Cooling System.....	6
Air Leakage.....	6

System Voltage.....	6
Batteries .....	6
Battery Charging .....	7
<b>Protecting the Environment.....</b>	<b>10</b>
<b>Cleaning the Vehicle.....</b>	<b>11</b>
Cleaning the Cab.....	12
Waxing the Cab.....	12
Cleaning the Cab Interior .....	12

### **Getting to Know Your Vehicle**

---

<b>Cab .....</b>	<b>13</b>
Entry and Exit.....	13
Doors.....	14
Tilting the Cab .....	14
Door Mirrors.....	16
Windshield Wiper Blades.....	17
Seats .....	17
Seat Belts .....	18
Storage Tray .....	21
Glove Box .....	21
Sun Visors .....	22
Roof Vent (option).....	23
Courtesy Lights .....	23
Interior Light Unit.....	24
Ashtray .....	24

Cigarette Lighter .....	24
<b>Instruments and Controls.....</b>	<b>25</b>
Instrument Panel .....	26
Switches, Gauges, and Warning Lights on the Instrument Panel .....	28
<b>Chassis.....</b>	<b>46</b>
Towing Pin.....	46

### **Daily and Weekly Maintenance**

---

Driver's Check List .....	47
<b>Daily Maintenance .....</b>	<b>50</b>
Front Access Panel .....	50
Engine Oil Level .....	50
Coolant Level .....	51
Wheels And Tires.....	52
Lighting And Instruments .....	52
Driver's Seat And Mirrors .....	52
<b>Weekly maintenance .....</b>	<b>53</b>
Power Steering Fluid Level .....	53
Air Filter Restriction Indicator.....	53
Brake System Air Dryer (optional equipment) .....	54
Clutch Fluid Level.....	55

# Contents

---

Windshield Washer Fluid Level .....	56
Tires .....	56
<b>Driving</b>	
<b>General</b> .....	<b>57</b>
<b>Ignition Switch</b> .....	<b>57</b>
<b>Starting Procedure</b> .....	<b>58</b>
<b>Operating the Transmission</b> .....	<b>58</b>
Introduction.....	58
Operating Manual Transmissions ..	59
Putting the Vehicle in Motion .....	59
More Transmission Tips .....	61
Operating Automatic Transmissions	62
Operating Automated Manual	
Transmissions.....	63
Cruise Control .....	64
<b>Steering</b> .....	<b>65</b>
<b>Brakes</b> .....	<b>65</b>
Service brakes.....	66
Parking brake / emergency brake..	66
Engine Retarder (option) .....	67
<b>Stopping</b> .....	<b>69</b>
Parking .....	69
Turning off the engine.....	69
<b>Diesel Fuel</b> .....	<b>70</b>
Cold Weather Recommendations .	70

## Periodical maintenance

---

<b>General</b> .....	<b>71</b>
Maintenance and	
Lubrication Intervals.....	72
Lubrication Specifications .....	83
Oil Reservoirs .....	85
Lubrication Chart .....	85
Maintenance in Special and	
Exceptional Operating Conditions..	88
Cab Maintenance.....	88
Preventive Maintenance Before the	
Winter Season .....	88

## Emergency repairs

---

Vehicle Tool Kit.....	93
Replacing The Drive Belt .....	93
Replacing The Compressor Belt....	93
Replacing The Fuel Filter.....	94
Adjusting The Brakes.....	94
Spring Brakes — Manual Release.	94
Jacking The Vehicle .....	96
Wheels.....	97
Towing Pin.....	99
Towing.....	99
Replacing Bulbs.....	100

Fuses.....	103
Radio (optional) .....	103
Electrical Connections.....	104
Speakers .....	104
<b>Noise and Emission Control</b> .....	<b>105</b>
Noise Emission Warranty .....	105
Inspection and Maintenance	
Instructions .....	106

## Consumer Information and Vehicle Identification

---

<b>Reporting Safety Defects</b> .....	<b>109</b>
<b>Vehicle Identification</b> .....	<b>109</b>
Complete Vehicle Certification	
Label.....	111
Incomplete Vehicle Certification	
Label.....	111
Tire and Rim Information Label ...	111
Noise Emission Label.....	112
Paint Data Label .....	112
Federal Safety Standard	
Certification Label .....	112
Component Identification.....	113

## General Alphabetical Index

---



## GENERAL

### Safety Precautions



**The following list of safety precautions against possible safety hazards is not exhaustive and, therefore all safety related workshop practices and precautions must be exercised.**

#### General

Ensure all Warnings and Cautions listed in this publication are strictly adhered to. Always read carefully the instructions printed on labels or

stamped on components and obey them completely. Such instructions are included for your health and safety; do **not** disregard them.

Wear clean protective clothing or apparatus when necessary.

#### Engine

Do **not** run engine in a confined space or unventilated area or with a leaky exhaust system. If the engine must be run in a confined space ensure that an exhaust extractor is used.

To prevent a possible fire risk, ensure that the engine and its surrounding areas are clean and free from leakages/spillages of any inflammable liquids (e.g. fuel oil, engine oil, etc.).

#### Cooling System

Do **not** attempt to remove the surge tank filler cap while the engine is running or still hot.

Do **not** attempt to fill a hot engine with cold coolant.

Do **not** fill the cooling system through the pressure cap aperture.

## Components

Ensure that all personnel are clear of any rotating parts or moving components.

Synthetic rubber seals, O-rings and gaskets which have been damaged by fire or come into contact with direct heat, may produce **hazardous fumes** and **highly corrosive chemicals**. Allow burnt or decomposed seals etc. to completely cool. Use impervious protective clothing and gloves. Work in a well ventilated area when handling these components. **In the event of skin contact seek medical attention immediately.**

## Electrical

Batteries contain electrolyte (sulfuric acid) which is a highly corrosive and toxic substance. Accidental skin/eye contact with battery electrolyte can cause serious personal injury.

Always wear protective clothing and suitable eye protection when handling batteries and wash hands after use.



***WARNING! 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.***

Always disconnect the batteries before commencing work on the vehicle. To minimize the risk of accidental short circuits when disconnecting the batteries,

ensure that the negative (–) lead is disconnected **first** and the positive (+) lead **last**; reverse this procedure when re-connecting the batteries.

To prevent accidental short circuits do **not** place tools/metal objects on or near the battery terminals.

Batteries produce a highly flammable and explosive gas while being charged. It is essential that the area around the battery is well ventilated and protected against any flame, spark or intense heat source. The use of “boost” chargers is **not** recommended.

The ignition switch, steering lock, and its electrical circuits are designed to prevent the auxiliary circuits and starter motor from being energized while the steering lock is engaged. Serious consequences could result from alteration or substitution of the ignition switch and