

Product: 2009 TEREX TR35 Tier3 Dump Truck Operator Workshop Manual[OHE877]

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TEREX Equipment Limited Operator Handbook



Operator Handbook
TR35 Tier3

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TEREX Equipment Limited Operator Handbook Re-order

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Operator Handbook
TR35 Tier3

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TEREX Equipment Limited Operator Handbook - Introduction

For further information on the subject matter detailed within this operator handbook, please refer to Terex Equipment Limited Service Manuals and Product Parts Books.

Alternatively, please contact;

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Please refer to TEREX Specification Sheets or consult Factory Representatives to ensure that information is current.

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**ONLY TRAINED PERSONNEL SHOULD BE
ALLOWED TO OPERATE THIS VEHICLE**

The operator is responsible and must be familiar with the contents of the Operator's Handbook and any local regulations prior to operating this vehicle.

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CALIFORNIA
Proposition 65 Warnings

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.

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.

SPARE PARTS STATEMENT

When carrying out repairs, alterations or fitting attachments, it is important that only genuine spare parts are used to ensure the operating safety of the machine is not impaired.

It is only by using genuine parts that the technical requirements stipulated by the manufacturer can be maintained.

If a General Operating Approval is issued for this machine, it may be considered null and void if non-genuine parts are used.



EC DECLARATION OF CONFORMITY

MANUFACTURERS NAME AND FULL ADDRESS			
TEREX EQUIPMENT LIMITED, MOTHERWELL, SCOTLAND, ML1 5RY			
DESCRIPTION OF MACHINERY			DIRECTIVES COMPLIED WITH
MAKE:	TEREX		87/404/EEC 97/23/EC
MODEL:	TR35 RIGID TRUCK		89/336/EEC
			98/37/EEC
			2000/14/EC
UNIT SERIAL NO.		DATE OF MANUFACTURE:	
INSPECTOR:			
THE ABOVE MACHINERY, TAKING INTO ACCOUNT THE STATE OF THE ART, COMPLIES WITH, OR IS DESIGNED AND CONSTRUCTED AS FAR AS POSSIBLE TO COMPLY WITH, THE ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF THE MACHINERY DIRECTIVE.			
FOR AND ON BEHALF OF THE MANUFACTURER:			
NAME:	PAUL DOUGLAS	SIGNATURE:	
POSITION:	CHIEF ENGINEER		

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CONTENTS

1. INTRODUCTION

Introduction	1-5
Safety Precautions	1-5
Machine Identification	1-6
Theft Deterrent Practices	1-6

2. SAFETY PRECAUTIONS

General	2-4
Vehicle Lifting Precautions	2-5
Vehicle Tie Down Precautions	2-5
Preventing Fire Hazards	2-6
Mounting and Dismounting	2-7
Pre-Starting	2-8
Starting	2-8
Operating	2-8
Roading	2-10
Lubrication and Servicing	2-10
Wheels and Tyres	2-13
Avoid Tyre Explosion Hazard	2-13

3. CONTROLS AND OPERATING

Controls and Instruments	3-3
Basic Data	3-4
Warning Lights	3-4
Instruments	3-6
Switches	3-7
Controls	3-9
Heater	3-10
Air Conditioner	3-10
Operator's Seat -	
Air Suspension	3-11
Seat Belt	3-12
Machine Controls	3-13
Braking	3-13
Service Brake	3-13
Park/Emergency Brake .	3-13
Retarder	3-14
Engine	3-16
Electronic Foot Control ..	3-16
Quantum Fuel System...	3-16
Description	3-17
Operation.....	3-18
Steering	3-20
Transmission	3-21
Description and Operation	3-22
Gearshift Controller	3-23
Body Control	3-29
Raising the Body	3-30
Lowering the Body.....	3-30

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4. OPERATING THE TRUCK

Pre-Starting Inspection	4-3
Component Checks	4-4
Suspension Ride Struts	4-6
Engine Operation	4-7
Starting the Engine	4-8
Starting the Engine with Jumper Cables	4-10
Pre-Operating Checks	4-11
Brake Function Checks	4-12
Driving and Stopping	4-13
Stopping the Engine	4-14
Parking	4-16

5. WORKING THE TRUCK

Working the Truck	5-2
Loading	5-2
Hauling	5-4
Dumping	5-5
Empty Return	5-7

6. ROADING

Roading	6-2
General	6-2
Preparation Prior to Roothing	6-2
In Case Of Trouble	6-4

7. MOVING DISABLED TRUCK

Moving Disabled Truck	7-2
-----------------------	-----

8. LUBRICATION AND SERVICING

Safety Precautions	8-3
Lubrication and Servicing	8-4
Lubrication and Service Chart	8-5
Miscellaneous Servicing	8-7
Service Capacities	8-8
Recommended Lubricants	8-8

9. TECHNICAL DATA

Technical Data - TR35	9-3
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10. SYMBOL IDENTIFICATION

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INTRODUCTION

This Handbook is provided as a guide to familiarize the operator and serviceman with the controls, recommended inspections, start-up, operating, shutdown and parking procedures for TR45 & TR60 Rigid Trucks.

Look for the safety alert symbol to point out important safety precautions. It means:

ATTENTION! BECOME ALERT! YOUR SAFETY AND THE SAFETY OF OTHERS IS INVOLVED!



Safety Precautions

The machine should be properly operated and maintained to keep it in safe, efficient operating condition. Be sure that all controls are free of mud, grease, or other matter that might cause slips hazardous to the operator, serviceman, or other personnel or equipment. Report all malfunctions to those responsible for maintenance, and, do not operate the equipment until corrected. Normal service or maintenance performed as required can prevent unexpected and unnecessary downtime.

This Handbook describes general inspections, servicing and operation with the normal safety precautions required for normal servicing and operating conditions. It is not a guide however, for other than normal conditions or situations, and therefore, servicemen and operators must be safety conscious and alert to recognize potential servicing or operating safety hazards at all times, and take, necessary precautions to assure safe servicing and operation of the machine.

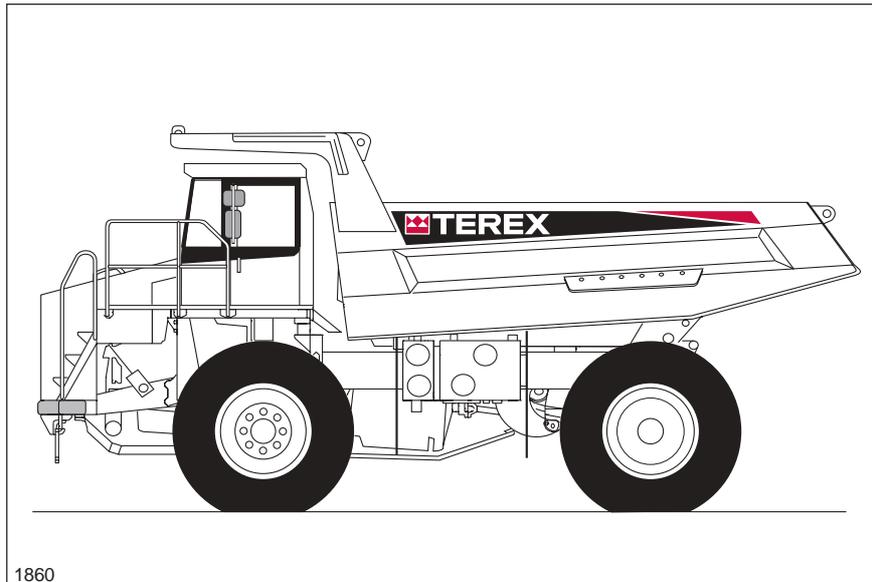
WARNING

These machines are equipped with cylinders containing compressed nitrogen gas. Transportation of these machines by any method may require a special permit from the appropriate authority of the country involved. Consult your dealer for details.

All information, illustrations and specifications contained in this publication are based on the latest product information available at the time of publication. The right is reserved to make changes at any time without notice.

Continuing improvement and advancement of the design may cause changes to your machine which may not be included in this publication. Each publication is reviewed and revised, as required, to update and include these changes in later editions.

This Handbook contains lubrication and routine servicing instructions, most of which can be performed in the field. Maintenance manuals containing repair/rebuild procedures can be obtained from your dealer.



Intended use of machine

This product and its approved attachments are primarily intended to be used as described in this manual.

Use of this product in any other way is prohibited and contrary to its intended use.

Machine Identification

While reading this handbook you will notice references to controls and equipment which may not be found on all machines. It is important that you know your machine and its equipment and how to operate it properly.

Information regarding the machine model, code and chassis serial number is found on the unit serial number plate on the rear right of the front frame. The machine model and serial number should always be referenced in any correspondence with your dealer or factory.

There is a dealer serving every part of the world where these products are sold. Your dealer is ready to provide you with any additional information needed and should be consulted for additional publications for this machine.

Theft Deterrent Practices

General

The owner/operator should take the following precautions to discourage theft, to aid in the recovery in the event that the machine is stolen, or to reduce vandalism.

Actions to Discourage Theft and Vandalism

Remove all keys any time the machine is left unattended.

At night lock all doors and attach, secure or lock all anti-vandalism and anti-theft devices on the machine.

Immobilise the machine by removing a critical electrical or starting system device.

Upon receipt of a machine, record the machine serial number and the serial numbers of all major components and attachments. Keep this list up to date and filed in a safe location for fast retrieval. Place a decal or notice on the machine that all serial numbers are recorded.

Discourage the thief! Inspect the gates and fences of the machinery storage yard or construction site. Keep machines in well-lit areas and ask the local law enforcement authorities to make frequent checks around the storage yard or work site.

Establish liaison with neighbours and ask them to watch equipment left at job sites and to report any suspicious activities to the local law enforcement authorities.

Make frequent inventories of machines to promptly detect losses or vandalism.

Actions to Aid in Recovery of Stolen Machines

In the event of theft, immediately notify the law enforcement authorities having jurisdiction. Provide the investigating officer with name, type of equipment, chassis and serial numbers of major attachments and components. It is helpful to show the investigating officer an Operator's Handbook, photographs, and advertising, to familiarize him with the appearance of the machine.

Report the theft to the insurance company. Provide the model and all serial numbers.

Report the model and serial numbers of the stolen machine to a dealer handling the respective line of equipment. Request that the dealer forward this same information to the equipment manufacturer.

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2 - Safety Precautions

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SAFETY

Safety Alert Symbol

The safety alert symbol is used to alert you to a potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.



Hazard Classification

A multi-tier hazard classification system is used to communicate potential personal injury hazards. The following signal words used with the safety alert symbol indicate a specific level of severity of the potential hazard. Signal words used without the safety alert symbol relate to property damage and protection only. All are used as attention getting devices throughout this manual as well as on deals and labels fixed to the machinery to assist in potential hazard recognition and prevention.



DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



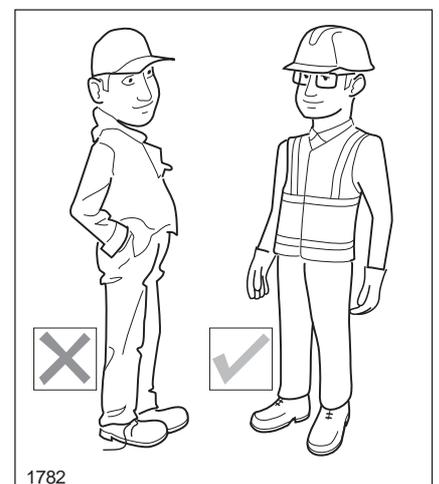
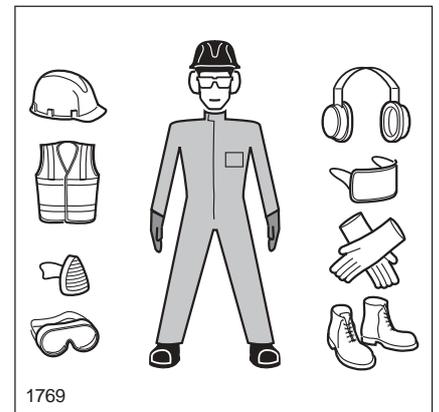
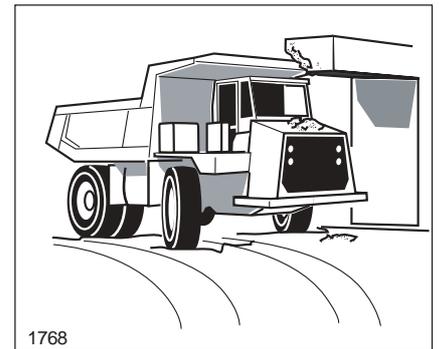
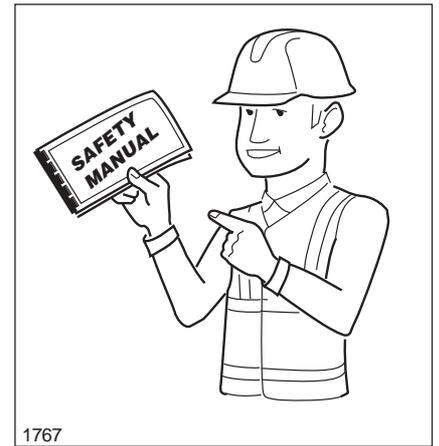
CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

Safety Precautions

SAFETY PRECAUTIONS

General

- * Read this Operator's Handbook and learn the operating characteristics and limitations of the vehicle. Know what operating clearances the vehicle requires.
- * Read the AEM Safety Manual and follow the recommended safety precautions.
- * Know clearances of all side and overhead obstructions such as wires and bridges, for operating safely.
- Be especially aware of overhead power lines.
- * Always know all traffic rules, signs, flags and hand signals used on the job and know who has the responsibility for signalling.
- * Be aware of operating hazards that weather changes can create on the job. Know proper procedures to follow when a severe rain or electrical storm strikes.
- * Never attempt to operate or work on a vehicle when not feeling physically fit.
- * Know what safety equipment is required and use it. Such equipment may be: hard hat, safety glasses, reflector type vests, respirators and ear plugs.
- * Never wear loose clothing, rings, watches or similar items that might catch levers and controls and cause loss of control.
- * Keep hands and controls free from water, grease and mud to assure non-slip control.
- * Handle fuels and lubricants carefully and clean up spills to avoid fire and slipping hazards.
- * Clean any mud, grease or oil from controls, handrails, ladders and decks. Lash necessary tools securely and remove all loose items before operating the vehicle. Never rush. Walk, do not run.
- * Never carry more than one passenger and only in the instructor seat.

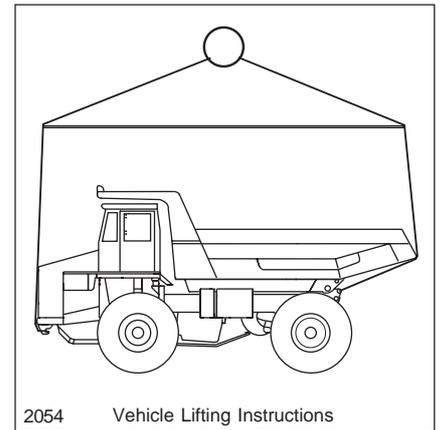


WARNING

The protection offered by the roll over and falling object protective structure may be impaired if it has been subjected to any modification or damage. Unauthorized modification will void certification.

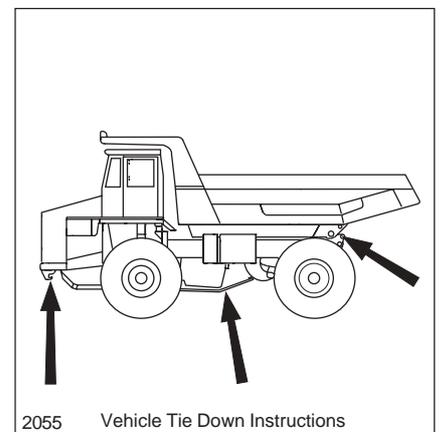
Vehicle Lifting Precautions

- * Prior to lifting, the vehicle should be parked on a level surface, wheels blocked, and the parking brake disengaged.
- * The vehicle should be lifted using a spreader bar if possible. Lift using FOUR slings from the lifting points provided at the bumper end of the front chassis and at the rear of the body.



Vehicle Tie Down Precautions

- * The vehicle should be secured at the tie down points located at the bumper end of the front chassis, the front face of the trailer chassis and the tow pin at the rear of the trailer chassis.

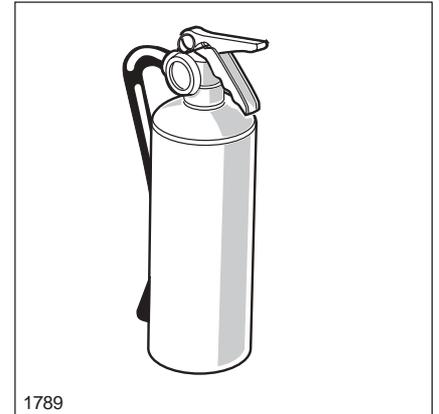


Safety Precautions

Preventing Fire Hazards

General Fire Precautions

- * Make sure the vehicle has a fire extinguisher and that it is accessible and fully charged. (Not furnished with the vehicle.)
- * Never use an open flame as a light anywhere on, or around, the vehicle.
- * Clean all dirt, oil, grease and other fluids from systems and components to minimize fire hazards and aid in spotting loose or leaking lines, fittings etc..
- * Check the engine compartment for rubbish, oily rags or other debris that could cause fires before starting the engine.
- * Don't let greasy, oily rags or similar hazards accumulate in the cab.
- * If the vehicle has been operated with an under inflated tyre. Make sure that the tyre has cooled sufficiently before parking and leaving the vehicle unattended.



Flammable Fluid Precautions

- * Don't use diesel fuel or other flammable fluids for cleaning purposes. Use approved, non-flammable solvents.
- * Make sure all fluid system caps, drain cocks, valves, fittings, lines, etc. are secure and leak free.
- * Never use an open flame (match, lighter, etc.) when checking fuel, lubricant, coolant and battery fluid levels or when checking for fluid leaks. Use a flashlight or other safe lighting only.
- * Shut off engine and use extra caution if engine is hot when refuelling. Ground the hose spout to prevent sparks when spout is touched to fuel tank filler tube.
- * Never smoke while checking or adding fuel or other fluids or handling fluid containers and lines.
- * Use care and do not stand downwind when adding fuel or other flammable fluids to tanks and reservoirs to avoid fluids being blown or splashed onto clothing.
- * Close fuel tank shut-off valves, if used, before servicing fuel system.
- * When preparing vehicles or components for storage, seal and tape all openings and close containers tightly to seal in all volatile inhibitor fluids and compounds used.



- * Follow manufacturers' recommendations when handling and using engine-starting fluids and disposing of spent containers. Do not puncture or burn empty containers. These fluids are explosive and highly flammable.

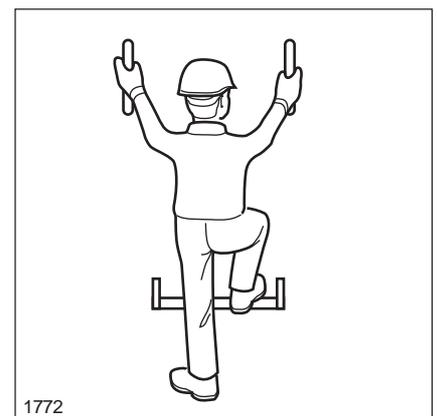
Electrical Hazard Precautions

- * Never smoke or allow open flames or sparks near batteries.
- * Leave battery box open when charging batteries in the vehicle for adequate ventilation of explosive gas (hydrogen) produced.
- * Always disconnect batteries before repairing electrical system to avoid danger of fire-causing sparks. Disconnect battery ground cable first and reconnect last.
- * Always disconnect batteries and alternator leads before carrying out any welding on the vehicle.
- * Never check battery charge by placing metal objects across battery posts to avoid sparks at battery posts.
- * Use jumper cables only as recommended. Improper use can result in battery explosion or unexpected vehicle motion.
- * Never operate engine starter for more than 30 seconds and allow two minutes between long cranking periods for cooling. An overheated starter could cause a fire.
- * If electric coolant or lubricant heaters are used, be sure to follow heater manufacturer's recommendations for use to avoid electrical and/or fire hazards.



Mounting and Dismounting

- * Only use steps and hand holds provided to mount or dismount the vehicle. Do not grasp steering wheel.
- * Always face the access system and maintain at least three points of support to mount or dismount the vehicle.
- * Always use care when mounting the vehicle with oil covered, frosted, or iced fenders, decks, hand holds or steps.
- * Never mount or dismount a moving vehicle. Never jump off the vehicle.



Safety Precautions

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Pre-Starting

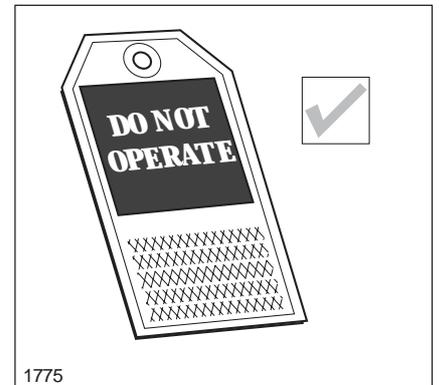
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- * If engine is to be started and run indoors, ensure proper ventilation to remove deadly exhaust gases.
- * Always perform 'Pre-starting Inspection' instructions described on page 4-3 to ensure the vehicle is ready for operation.
- * Always walk around the vehicle to make sure no-one is working on, underneath or close to the vehicle before starting the engine or operating the vehicle.
- * Adjust, secure and latch the seat and fasten the seat belt before starting the vehicle.
- * Sound horn before starting the engine or beginning to move the vehicle; two blasts for forward and three blasts for reverse.



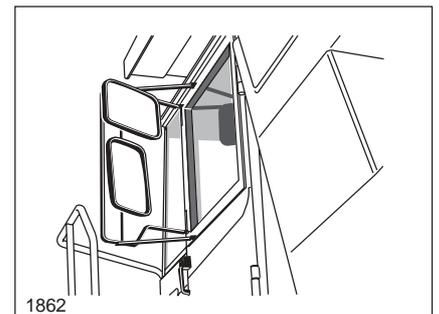
Starting

- * Do not start the engine or operate any control if there is a 'DO NOT OPERATE' or similar warning sign attached to any control.
- * Use jumper cables only as recommended. Improper use can result in battery explosion or unexpected vehicle motion.
- * Always obey 'Starting the Engine' instructions described on page 4-8.
- * Do not bypass the vehicle's neutral-start system. The neutral-start system must be repaired if it malfunctions.
- * Start and operate the vehicle only from the operator's seat.



Operating

- * Ensure all cab glass, mirrors and light lenses are clean during vehicle operation for maximum visibility. Ensure mirrors are properly set / positioned.
- * Always keep cab floor clear of anything that could restrict full operation of pedals.
- * Always make sure all gauges, warning/indicator lights and controls are working properly before operating the vehicle.
- * Always perform 'Pre-operating Checks' described on page 4-11 to ensure the vehicle is ready for operating.
- * Always wear seat belts when operating the vehicle.
- * In the event of a loss of steering pump output pressure, a fully-pressurized accumulator provides a maximum of two lock to lock turns of the front wheels. A warning light on the instrument panel illuminates when steering pressure falls below 83 bar (1200 lbf/in²). If this light illuminates, indicating a loss of



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