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TEREX Equipment Limited Operations Manual



Operations Manual TA400

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Original Operating Instructions

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TEREX Equipment Limited Operations Manual Re-order

Issued by;
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www.terex.com

OHE11211
Re-order Part Number
15504898

This controlled document is the original instruction
and should remain with the vehicle at all times.

Revision: November 2011

Dealer:

Operations Manual
TA400

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TEREX Equipment Limited Operations Manual - Introduction

For further information on the subject matter detailed within this Operations Manual, please refer to Terex Equipment Limited Maintenance Manuals and Product Parts Books.

Alternatively, please contact;

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Terex Equipment Limited
Newhouse Industrial Estate
Motherwell, ML1 5RY

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The illustrations, technical information, data and descriptive text in this manual, to the best of our knowledge, were correct at the time of print. The right to change specifications, equipment and maintenance instructions at any time without notice, is reserved as part of the Terex Equipment Limited policy of continuous development and improvement of the product.

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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 COMPETENT PERSONNEL
SHOULD BE ALLOWED TO OPERATE THIS
VEHICLE**

The operator is responsible and must be familiar with the contents of the Operations Manual and any Local / National 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, Newhouse Industrial Estate, Motherwell, Scotland. ML1 5RY	
PERSON AUTHORISED TO COMPILE TECHNICAL FILE	DIRECTIVES COMPLIED WITH:
Name: Jamie McMillan, Address: Newhouse Industrial Estate, Motherwell, Scotland. ML1 5RY	2000/14/EC 2004/108/EC 2006/42/EC
DESCRIPTION OF MACHINERY:	
MAKE:	TEREX
MODEL/DESIGNATION:	TA400 Articulated Truck
INSPECTOR:	
UNIT SERIAL NUMBER:	
WE DECLARE THAT THE ABOVE MACHINERY FULFILS ALL THE RELEVANT PROVISIONS OF THE ABOVE DIRECTIVES	
FULL QUALITY ASSURANCE (Annex X):	CERTIFICATE NUMBER:
L.R.Q.A. Ltd., Hiramford, Middlemarch Office Village, Siskin Drive, Coventry. CV3 4FJ. England	LRQ 0925301/A
	DATE OF MANUFACTURE:
FOR AND ON BEHALF OF THE MANUFACTURER:	SIGNATURE:
NAME: Paul Douglas	
POSITION: General Manager	
PLACE: Motherwell, Scotland	DATE:

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CONTENTS

1 INTRODUCTION

Introduction	1-1
Safety Alert Symbol	1-1
Hazard Classification	1-1
Intended Use of the Machine	1-2
Product Identification No.	1-3
Spare Part Statement.	1-3
Theft Deterrent Practices..	1-4

2 SAFETY

General.	2-4
Articulation and Oscillation Lock.	2-5
Machine Lifting Precautions	2-5
Machine 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.	2-11
Scrapping the Machine.	2-12
Mirror and CCTV	2-13
Wheels And Tyres	2-15
Avoid Tyre Explosion Hazard	2-16
Emergency Exit from Cab.	2-17
Decals And Instruction Plates.	2-18

3 CONTROLS AND OPERATING

Controls and Instruments	3-3
Fuse / Relay Box	3-4
Basic Data	3-9
Warning Lights and Symbols	3-10
Instruments.	3-13
Menu Screen and Buttons	3-14
Switches	3-21
Controls	3-24
Heater.	3-25
Air Conditioning	3-25
Operator's Seat Air Suspension	3-26
Operator's Seat Operation	3-27
Seat Belt.	3-29
Machine Controls	3-30
Braking	3-30
Transmission Retarder	3-31
Engine Brake	3-32
Engine	3-33
Electronic Foot Pedals	3-33
PDE Fuel Injection System.	3-33
Description	3-34

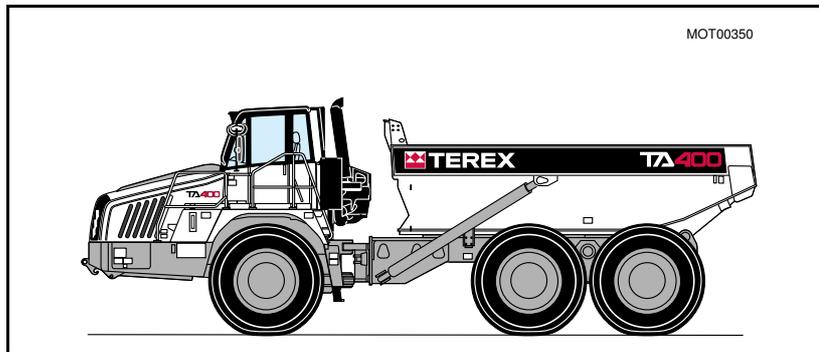
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3 CONTROLS AND OPERATING (Continued)	
Allison Series 4500 Automatic Shift Transmission. . .	3-45
4th GEN Shift Controller.	3-46
Drop Box.	3-53
Differential Lock.	3-54
Hydraulic Controls	3-55
Steering	3-56
Body Control.	3-57
Tilting Cab	3-58
Hood.	3-59
4 OPERATING THE MACHINE	
Pre-Starting Inspection.	4-3
Component Checks	4-3
Engine Operation	4-6
Starting the Engine.	4-7
Starting the Engine With Jumper Cables	4-9
Pre-Operating Checks	4-10
Brake Function Checks	4-11
Driving And Stopping	4-12
Stopping the Engine.	4-14
Parking	4-15
5 WORKING THE MACHINE	
Working the Machine	5-3
Loading.	5-3
Hauling	5-5
Dumping	5-6
Empty Return	5-7
6 ROADING	
Roading	6-3
General.	6-3
Preparation Prior to Roding	6-3
In Case of Trouble	6-4
7 MOVING A DISABLED MACHINE	
Moving a Disabled Machine	7-3
8 LUBRICATION AND SERVICING	
Safety	8-3
Lubrications and Servicing	8-4
Lubrications and Service Chart	8-5
Miscellaneous Servicing Information	8-8
Recommended Lubricants	8-11
Specific Information for Tier2 Engine	8-19
9 TECHNICAL DATA	
TA400.	9-3
10 SYMBOL IDENTIFICATION	10-3

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INTRODUCTION

The Terex articulated haulers are 3 axle types with an oscillation and articulation pivot joint between the tractor and trailer units. Articulation is achieved by frame steering. The machine has part time or full time 6 wheel drive controlled by the operator. The machine range capacities vary from 37.5 US ton - 41.88 US ton or 27.5 yd³ - 30 yd³.



This manual is provided as a guide to familiarize the operator and serviceman with the controls, recommended inspections, start-up, operating, shutdown and parking procedures for TA400 Articulated Trucks. It is essential that operators read and understand the manual before operating the machine

Safety Alert Symbol

The Safety Alert System identifies important safety messages in this manual. When you see this symbol, BE ALERT! Your safety is involved. Carefully read the message that follows and inform other operators.

Hazard Classification

A multi-tiered 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 decals and labels fixed to the machinery to assist in potential hazard recognition and prevention.



Introduction

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.



Intended Use Of Machine

This product and its approved attachments are designed to perform the following functions.

1. Loading
2. Hauling
3. Spreading



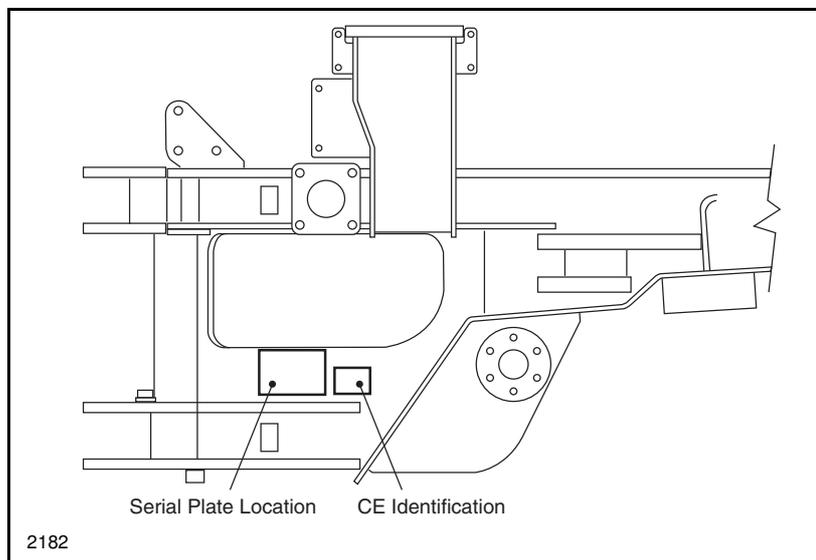
USE OTHER THAN INTENDED

Any use other than that stated in "Intended use" shall be considered impermissible.

The manufacturer shall not be held liable for any resulting damage.
The risk is borne by the user alone.

Product Identification Number - Plate Location

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.



While reading this manual 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.

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.



WARNING SPARE PARTS

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.

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Introduction

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.

Immobilize 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 neighbors 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 Operations Manual, 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.



2 - Safety

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SAFETY

The machine should be properly operated and maintained to keep it in a 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 Operations Manual 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.



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.

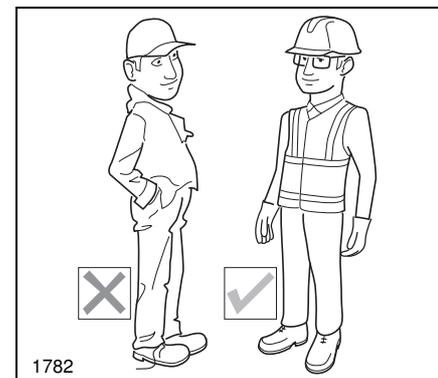
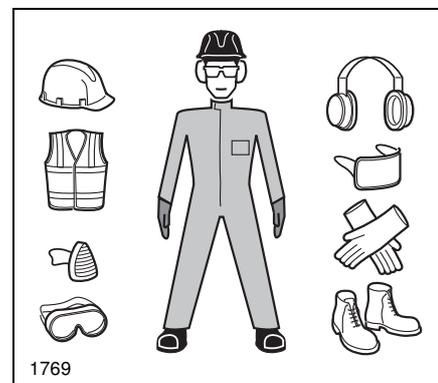
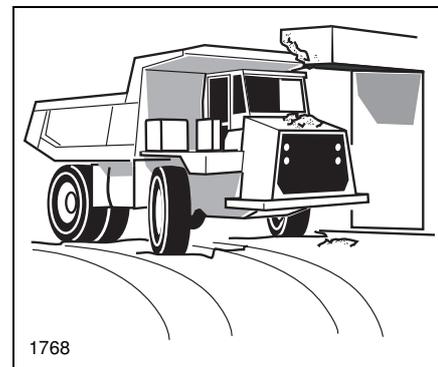
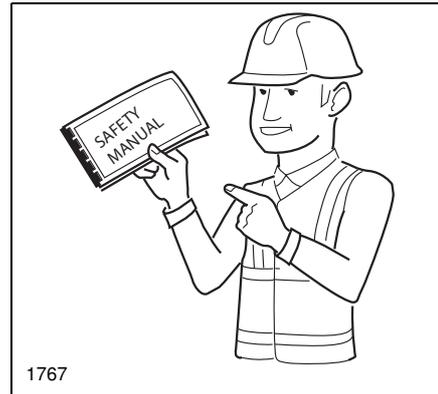
This Operations Manual contains lubrication and routine servicing instructions, most of which can be performed in the field. Maintenance Manuals containing repair/ rebuild procedures can be obtained from your dealer.

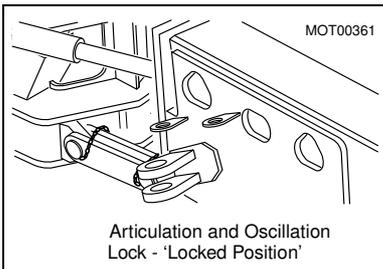
Safety

SAFETY

General

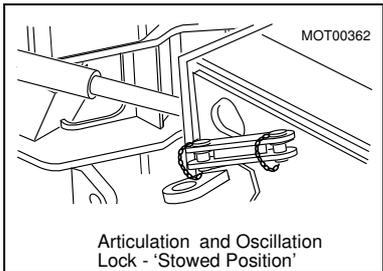
- Read this Operations Manual and learn the operating characteristics and limitations of the machine. Know what operating clearances the machine requires.
- Read and understand all the safety signs prior to operation.
- If the safety signs are obstructed by dirt or debris, clean them using mild soap and water prior to operation.
- If the safety signs are damaged or illegible, replace them immediately, prior to operation.
- Read the AEM Safety Manual and follow the recommended safety precautions.
- Know clearances of all side and overhead obstructions such as wires, bridges, etc., 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 machine 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, heavy gloves etc., that might catch levers and controls and cause loss of control.
- Keep hands and controls free from water, grease and mud to assure nonslip 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 machine. Never rush. Walk, do not run.
- Never carry more than one passenger and only in the passenger seat.





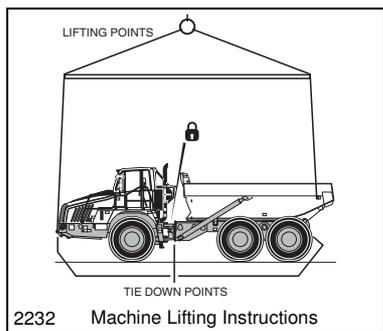
The protection offered by the roll over and falling object protective structure may be impaired if it has been subjected to any modification or damage. Unauthorized modification will void certification.

Articulation and Oscillation Lock



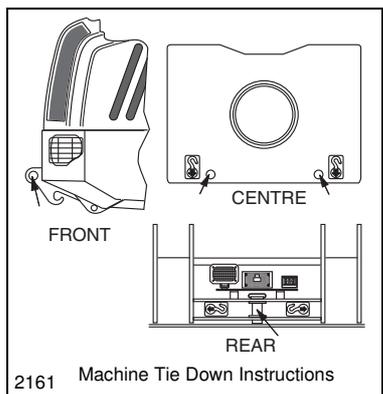
- Always connect the steering and oscillation lock bar before working in the articulation area, before lifting the machine and during transportation of this machine by trailer/vessel.
- Always disconnect the steering and oscillation lock bar and secure in the 'Stowed' position before operating the machine. The machine would not be free to steer otherwise.

Machine Lifting Precautions



- Prior to lifting, the machine should be parked on a level surface, wheels blocked, steering and oscillation lock bars connected.
 - The machine 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.
- Note:** Be aware that this machine is free to oscillate if not lifted correctly. If in any doubt contact your dealer for further information.

Machine Tie Down Precautions



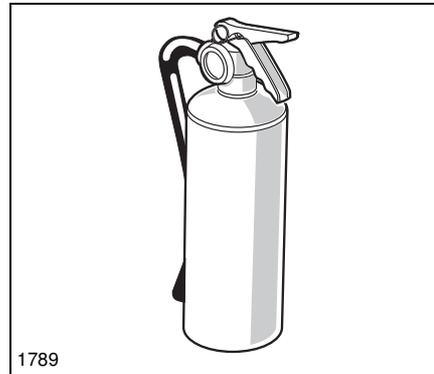
- The machine should be secured at the tie down points located at the bumper end of the front chassis, the front face of the trailer chassis and the tow pin at the rear of the trailer chassis.

Safety

Preventing Fire Hazards

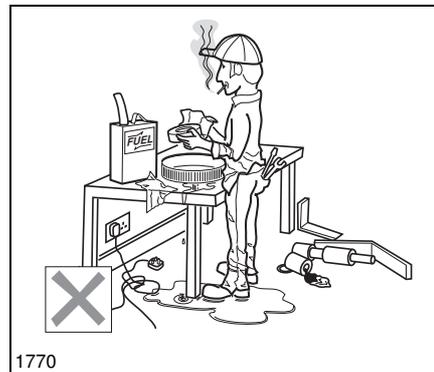
General Fire Precautions

- Make sure the machine has a fire extinguisher and that it is accessible and fully charged. (Not furnished with the machine).
- Never use an open flame as a light anywhere on, or around, the machine.
- 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 machine has been operated with an under inflated tyre, make sure that the tyre has cooled sufficiently before parking and leaving the machine unattended.



Flammable Fluid Precautions

- Don't use diesel fuel or other flammable fluids for cleaning purposes. Use approved, nonflammable 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 the engine and use extra caution if the engine is hot when refuelling. Ground the hose spout to prevent sparks when the spout touches the 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 the fuel system.
- When preparing machines or components for storage, seal and tape all openings and close containers tightly to seal in all volatile inhibitor fluids and compounds used.



- Follow manufacturer's 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.

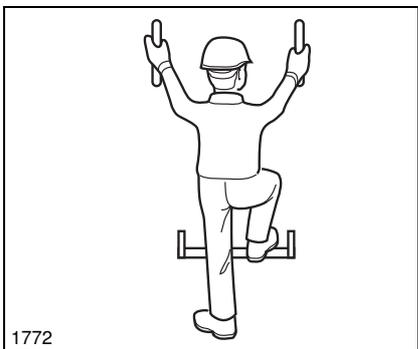
Electrical Hazard Precautions

- Never smoke or allow open flames or sparks near batteries.
- Leave the battery box open when charging batteries in the machine for adequate ventilation. Explosive gas (hydrogen) is produced.
- Always disconnect batteries before repairing the electrical system to avoid danger of fire-causing sparks. Disconnect the battery ground cable first and reconnect last.
- Always disconnect batteries & alternator leads before carrying out any welding on the machine.
- Never check the battery charge by placing metal objects across the battery posts; for the avoidance of sparks at the battery posts.
- Use jumper cables only as recommended. Improper use can result in battery explosion or unexpected machine motion.
- Never operate the 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 the heater manufacturer's recommendations for use to avoid electrical and/or fire hazards.



Mounting and Dismounting

- Always face the access system and maintain at least three points of support to mount or dismount the machine (two hands and one foot, or two feet and one hand).
- Always face the access system and maintain at least three points of support to mount or dismount the machine.
- Ensure walkways, stairways, platforms, handrails and handholds are free of frost, ice, oil, water or anything else that could cause slip, trip or falls.
- Never mount or dismount a moving machine. Never jump off the machine.



Safety

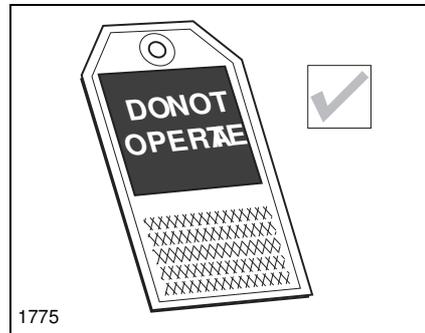
Pre-Starting

- If the 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 machine is ready for operation.
- Always walk around the machine to make sure no-one is working on, underneath or close to the machine before starting the engine or operating the machine.
- Adjust, secure and latch the seat and fasten the seat belt before starting the machine.
- Sound the horn before starting the engine or beginning to move the machine; two blasts for forward and three blasts for reverse.



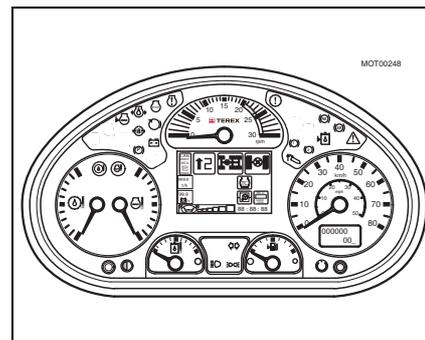
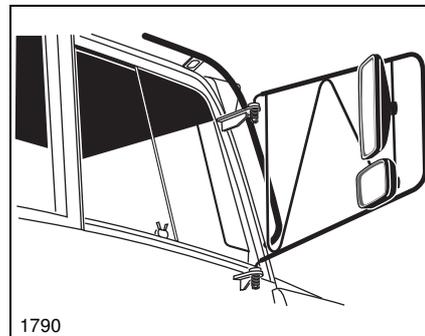
Starting

- 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 machine motion.
- Always obey 'Starting the Engine' instructions described on page 4-9.
- Do not bypass the machine's neutral-start system. The neutral start system must be repaired if it malfunctions.
- Start and operate the machine only from the operator's seat.



Operating

- Ensure all cab glass, mirrors and light lenses are clean during the machine operation for maximum visibility. Ensure mirrors are properly set / positioned.
- Always keep the cab floor clear of anything that could restrict full operation of the pedals.
- Always make sure all gauges, warning/indicator lights and controls are working properly before operating the machine.
- Always perform 'Pre-Operating Checks' described on page 4-13 to ensure the machine is ready for operating.
- Always wear seat belts when operating the machine.
- Do not operate if any personnel enter the immediate work area.



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