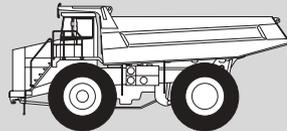


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# TEREX



## TR100

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Operator Safety Maintenance

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TEREX EQUIPMENT LIMITED  
MOTHERWELL, SCOTLAND ML1 5RY  
Ref No. OHE 808 Sep 2006

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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.



---

**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

MAKE:	TEREX
MODEL:	TR100 RIGID TRUCK

### DIRECTIVES COMPLIED WITH

87/404/EEC	97/23/EC
89/336/EEC	
98/37/EEC	
2000/14/EU	

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
POSITION:	CHIEF ENGINEER

SIGNATURE:

---

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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 the TR100 Trucks.



Look for this symbol to point out important safety precautions. It means: **ATTENTION! BECOME ALERT! YOUR SAFETY AND THE SAFETY OF OTHERS IS INVOLVED!**

### **Safety Precautions**

The truck 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 ensure safe servicing and operation of the truck.

READ the CIMA Safety Manual supplied with this truck.



## **WARNING**

**These trucks are equipped with cylinders containing compressed nitrogen gas. Transportation of these trucks 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 truck 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.

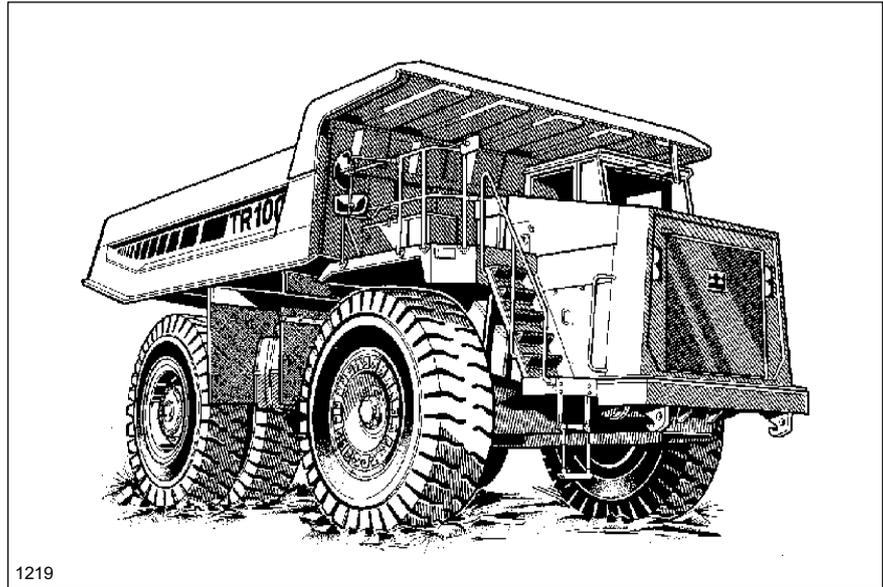
This Handbook contains lubrication and routine servicing instructions, most of which can be performed in the field. Maintenance manuals containing repair/rebuild procedures can be obtained from your dealer.

## Truck Identification

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

Information regarding the truck model, code and chassis serial number is found on the unit serial number plate mounted on the left-hand side of the truck adjacent to the steps. The truck 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 truck.



1219

---

## **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 truck is stolen, or to reduce vandalism.

### **Actions to Discourage Theft and Vandalism**

Remove all keys any time the truck is left unattended.

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

Immobilize the truck by removing a critical electrical or starting system device.

Upon receipt of a truck, record the truck 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 truck that all serial numbers are recorded.

Discourage the thief! Inspect the gates and fences of the machinery storage yard or construction site. Keep trucks 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 trucks to promptly detect losses or vandalism.

---

### **Actions to Aid in Recovery of Stolen Trucks**

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 truck.

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

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



---

## 2 - Safety Precautions

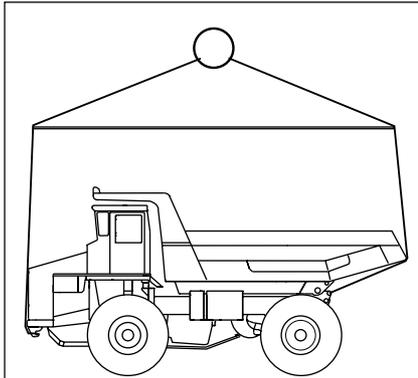
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## **SAFETY PRECAUTIONS**

### **General**

- \* Read this Operator's Handbook and learn the operating characteristics and limitations of the machine. Know what operating clearances the machine requires.
- \* Read the CIMA Safety Manual and follow the recommended safety precautions.
- \* Know clearances of all side and overhead obstructions such as wires, bridges, etc., for operating safely.
- \* 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 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.



1042 Vehicle Lifting Instructions

- \* Clean any mud, grease or oil from controls, handrails, ladders and decks. Lash necessary tools securely and remove all loose items before operating machine.
- \* Never rush. Walk, do not run.
- \* Never carry more than one passenger and only in the passenger seat.

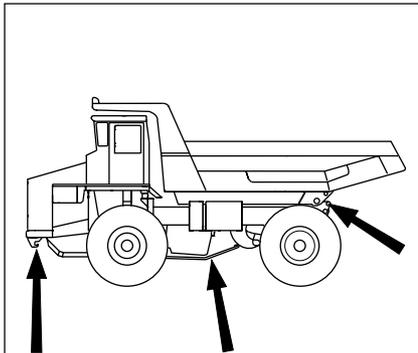


### **WARNING**

**The protection offered by the roll over protective structure may be impaired if the Cab Guard or Body Guides have been subjected to any modification or damage.**

### **Vehicle Lifting Precautions**

- \* Prior to lifting, the vehicle should be parked on a level surface, wheels blocked and the park/emergency brake disengaged.
- \* The vehicle should be lifted using a spreader bar if possible. Lift using FOUR slings from the lifting points provided at the front bumper and the rear of the chassis. Refer to the 'SLINGING INSTRUCTIONS' decal mounted on the left-hand side of the machine, adjacent to the ladders. If in any doubt contact your dealer for further information.



1043 Vehicle Tie Down Instructions

### **Vehicle Tie Down Precautions**

- \* The vehicle should be secured at the tie down points located at the front bumper, the transmission guard and at the safety pin location at the rear of the chassis.

---

## **Preventing Fire Hazards**

### **General Fire Precautions**

- \* Make sure machine has fire extinguisher and that it is accessible and fully charged. (Not furnished with 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 hoses, fittings etc.
- \* Check the engine compartment for trash, 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, hoses, 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 hoses.
  - \* 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 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 battery box open when charging batteries in machine 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 machine.
  - \* 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 machine motion.
  - \* Never operate engine starter for more than 30 seconds and allow two minutes between 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 handrails provided to mount or dismount machine. Do not grasp steering wheel; any pressure in the accumulator will turn the front wheels.
- \* Always face the access system and maintain at least three points of support to mount or dismount machine.
- \* Always use care when mounting machine with oil covered, frosted, or iced fenders, decks, handrails or steps.
- \* Never mount or dismount a moving machine. Never jump off the machine.

---

## **Pre-Starting**

- \* 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 4-2 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 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 4-7.
- \* 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 station.

---

## Operating

- \* Ensure all cab glass, mirrors and light lenses are clean during machine operation for maximum visibility.
- \* 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 machine.
- \* Always be aware of the level of fuel in the tank - ensure sufficient fuel is available for operating the machine. In no circumstances should the machine be driven till it runs out of fuel.
- \* Always perform 'Pre-Operating Checks' described on page 4-10 to ensure the machine is ready for operating.
- \* Always wear seat belts when operating the machine.
- \* 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 red warning light on the instrument panel illuminates when steering pressure falls below 83 bar (1 200 lbf/in<sup>2</sup>) If this light illuminates, indicating a loss of steering power, the machine must be stopped immediately and no further operation attempted until the fault is corrected.
- \* Do not operate if exposed personnel enter the immediate work area.
- \* Sound horn before starting engine or beginning to move machine; two blasts for forward and three blasts for reverse.
- \* Watch for ground crew and other personnel on foot. Sound horn as a warning before setting machine in motion and when approaching ground crew.

- 
- \* Be sure the body is fully down before moving the machine.
  - \* Always try to face or look in the direction the machine is travelling.
  - \* Use extreme caution and turn on lights at night or when fog, dust or similar hazards limit visibility. Do not overdrive your headlights.
  - \* Observe instruments frequently. Report any defects or unusual noises in machine during operation.
  - \* Stay in gear when driving downhill. Do not coast with transmission in neutral. Select the proper gear and maintain safe speed with the service brakes or/ and retarder (if fitted). Always maintain safe speeds for haul road operating conditions for maximum control. Reduce speed before turning.
  - \* Always operate straight up or down slopes whenever possible, side-hill operation can cause sideslip and possible roll-over.
  - \* Slow down when moving in congested areas. Do not race with other machines. Stop in authorized areas only, except in emergency.
  - \* Brake firmly in one application. Do not FAN the pedal. Never operate the machine if a warning light indicates a fault in the brake system.
  - \* Always give loaded machines the right-of-way when your machine is empty.
  - \* Always watch for holes, soft edges or other hazards when backing to dump over a spoil bank.
  - \* Always apply the brakes with the Parking-Emergency brake control when the machine is being loaded or when dumping a load.
  - \* Always stay in the cab when machine is being loaded.

- 
- \* Always lower the body and shut down the machine, according to the procedure under 'Stopping The Engine' described on page 4-14=, before leaving the machine unattended. If on a grade wheels should be blocked.

## **Roading**

- \* Match speed to road conditions.
- \* Yield the right of way when required. Obey the rules of the road.
- \* Stay as close to the side of the road as possible. Pass other equipment only when the road is clear and enough room and reserve power are available.
- \* Stop at appropriate intervals to inspect the machine and allow the tyres to cool. Tyre air pressure will rise during operation. Do not reduce tyre pressure. Excess speed will cause tyres to heat up. Reduce your travel speed, not tyre pressure.
- \* Use accessory lights and devices at night or in poor visibility. Carry a flare kit. Do not overdrive your headlights.

---

## Lubrication and Servicing

- \* Do not allow unauthorized personnel to service or maintain this machine. Study the Operator's Handbook and Maintenance Manual before starting, operating or servicing this machine. Always follow procedures and safety precautions detailed throughout the Maintenance Manual.
- \* Always attach a 'DO NOT OPERATE' or similar warning sign to ignition switch or a control before cleaning, lubricating or servicing the machine.
- \* Never allow anyone to work on the machine while it is moving. Make sure no one is on the machine before working on it.
- \* Do not work under or near unblocked or unsupported body. Always use the body safety pins.
- \* Do not work under or near any unblocked or unsupported linkage, part or truck.
- \* Always relieve pressure before servicing any pressurized system. Follow the procedures and safety precautions detailed in the Maintenance Manual.
- \* Always shut down machine according to the procedure under 'Stopping The Engine' described on page 4-14 before cleaning, lubricating or servicing the machine except as called for in this Handbook or the Maintenance Manual.
- \* When changing oil in the engine, transmission and hydraulic systems, or removing hydraulic lines, remember that the oil may be hot and can cause burns to unprotected skin.
- \* When working on or around exhaust components, remember that the components may be hot and can cause burns to unprotected skin.
- \* Always deflate tyre before attempting to remove any embedded objects or removing the tyre and rim assembly from the machine.
- \* Always use a self-attaching chuck with a long airline and stand to one side while the tyre is inflating. Refer to Section 160-0050, WHEEL RIM AND TYRE in the Maintenance Manual.

---

## Wheels and Tyres

If tyres on a machine were inflated at the factory with dry nitrogen gas, the tyre walls will be marked 'N' and the following factory installed decal will be found mounted on either side of the cab platform and the body.

### NOTICE

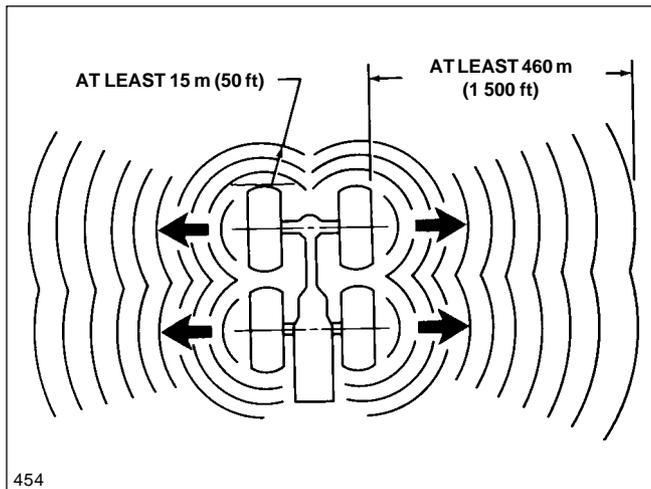
TYRES ON THIS MACHINE ARE FACTORY INFLATED WITH DRY NITROGEN. IT IS RECOMMENDED THAT DRY NITROGEN BE USED EXCLUSIVELY FOR ALL TYRE PRESSURE ADJUSTMENTS AS WELL AS INFLATION OF REPLACEMENT TYRES.

Nitrogen gas improves tyre pressure retention, increases tyre life by reducing carcass oxidation from within, minimizes rim rust, and has no known detrimental effect on the tyre. It also reduces the potential of a tyre explosion because it is an inert gas and will not support combustion inside the tyre. The same tyre inflation pressure used for air inflation should be used for nitrogen inflation. Refer to Section 160-0050, 'WHEEL RIM AND TYRES' of the machine Maintenance Manual for recommended procedures for inflating and pressure adjusting tyres with dry nitrogen gas. Only proper nitrogen charging equipment operated by personnel trained in its use should be used.



### WARNING

**Never mix components of one manufacturer's rims with those of another. Using the rim base of one manufacturer with the lock ring of another or vice versa is dangerous. The lock ring of one may not fully engage with the lock ring groove of the other. Always consult the rim manufacturer for proper matching, assembly and safety instructions. Also, use and servicing of damaged, worn out or improperly assembled rim assemblies is a very dangerous practice. Failure to comply with the above warnings could result in an explosion from tyre pressure causing serious property damage and serious personnel injury or death.**



## Avoid Tyre Explosion Hazard



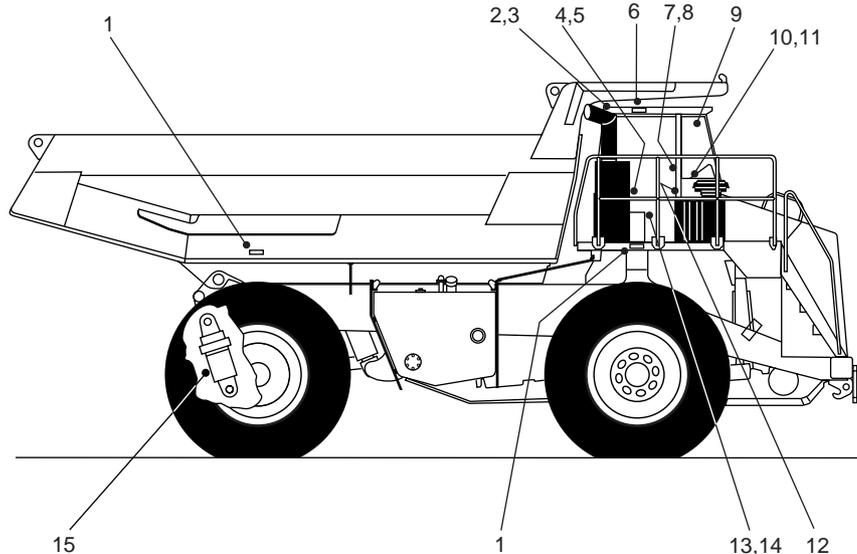
### WARNING

Whenever a machine's tyre(s) is (are) exposed to excessive heat such as a machine fire or extremely hot brakes, the hazard of a subsequent violent tyre explosion must be recognized. All nearby persons must avoid approaching the machine so as not to be physically endangered in the event of an explosion of the tyre and rim parts. The machine should be moved to a remote area, but only when this can be done with complete safety of the operator operating or towing the machine. All other persons should stay clear of the machine. The fire or overheated brakes, wheel etc., should be extinguished or cooled from a safe distance. Do not attempt to extinguish the fire or cool the machine by use of hand-held fire extinguishers. If it is absolutely necessary to approach a machine with a suspect tyre, approach only from the front or the back. Stay at least 15 m (50 ft) from the tread area. Keep observers out of the area and at least 460 m (1500 ft) from the tyre sidewall. Refer to the accompanying sketch. The tyre(s) should be allowed at least eight (8) hours cooling time after the machine is shut down or the fire extinguished before approaching closer.

## Decals and Instruction Plates

Decals and instruction plates fitted to these machines may vary from country to country to suit local needs. These pages contain a brief description and the location of the decals and instruction plates that may appear on your machine.

1. Tyre Warning
2. Operating On A Grade Instructions
3. Vehicle Parking Instructions
4. Accumulator Precautions
5. Accumulator Charging Instructions
6. Acoustic Foam Precautions
7. Vehicle Overall Height
8. Steering Wheel Lock
9. Symbol Identification Chart
10. Radiator Cap Warning
11. Radiator Fill Instructions
12. Air Cleaner Information
13. Negative Earth
14. Battery Cable Warning
15. Ride Strut Pressure Warning



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