

Product: 2009 TEREX TS14G Tier3 Motor Scraper Operator Workshop Manual[OHE914]

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TEREX Equipment Limited Operator Handbook



Operator Handbook TS14G Tier3

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OHE914
Re-Order Part Number
15503546

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

Revision: April 2009

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

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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.

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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 TS14G Scraper.

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.



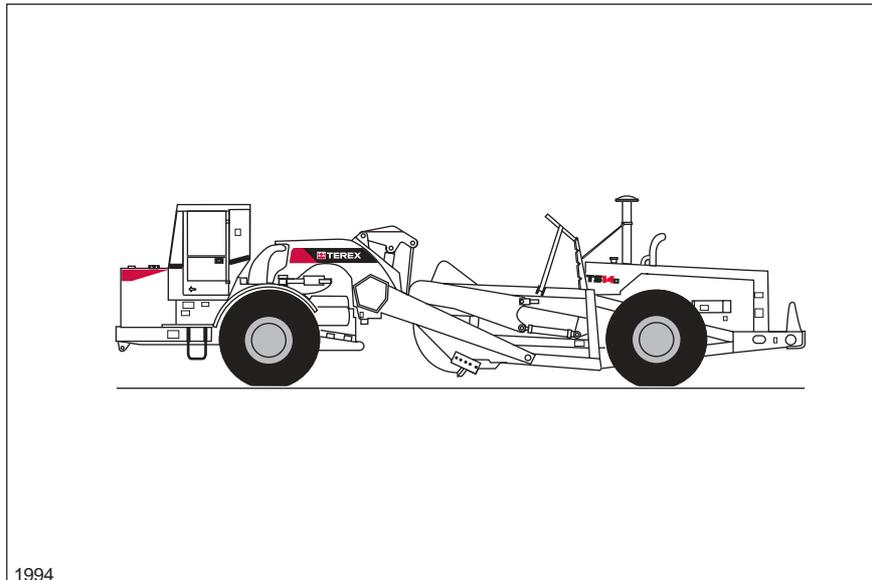
WARNING

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



DANGER

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



WARNING

Indicates an potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

Indicates an potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



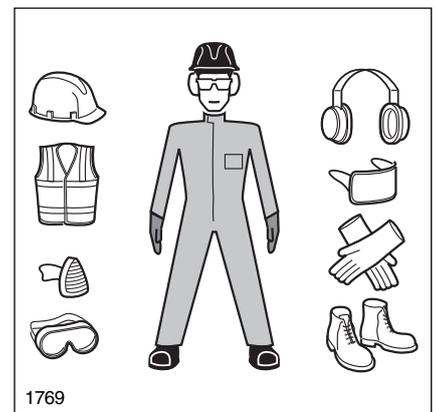
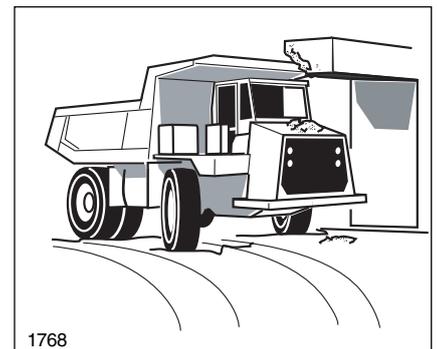
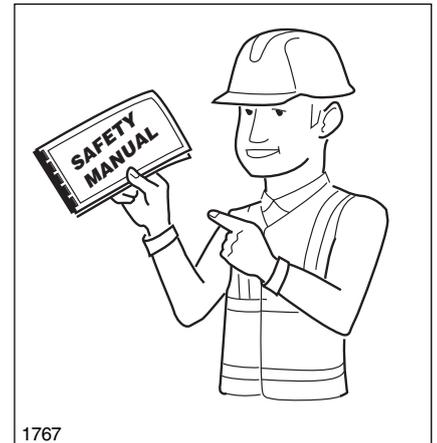
CAUTION

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

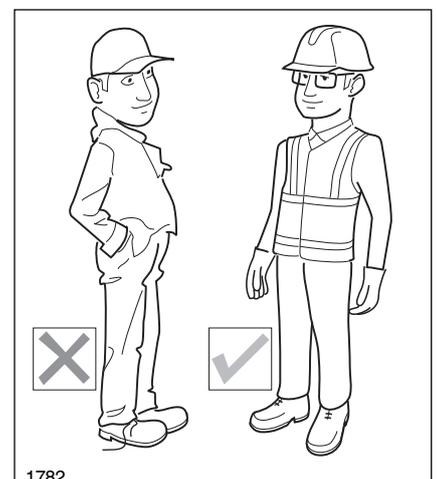
SAFETY PRECAUTIONS

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, 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 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 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 vehicle. 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 and falling object protective structure may be impaired if it has been subjected to any modification or damage. Unauthorized modification will void certification.



Twin Hitch Safety Precautions

- * Do not operate machine with the bail down, except when coupled to an other machine, as this results in a dozing action, bending the bail and causing unnecessary damage to hitch assembly and machine.

- * Never park or leave the machine with the bail in the raised position. Bail can be dropped by accidental control lever movement, or loss of cylinder air pressure, and could be dangerous to any personnel in the area of the bail. If the machine is being parked for an extended period of time, or being serviced with the air supply (engine) shut off, the bail, if left in the raised position, will eventually drop to the lowered position of its own weight. Always lower the bail when dismounting the machine for any reason.

Note: Holes are provided in the side plates of the push plate assembly for propping the bail in the raised position with a pin, for servicing procedures.

- * Twin hitch scrapers are designed to operate in pairs of the same size and type. Twin hitch operations with unequal size scrapers, three or more scrapers in train or push tractor assistance could seriously impair the service life of the machines.

- * Never turn the machine when hitched to another machine. The machines must remain in a straight line while hooked together as turning of either machine will damage the bail of the rear machine.

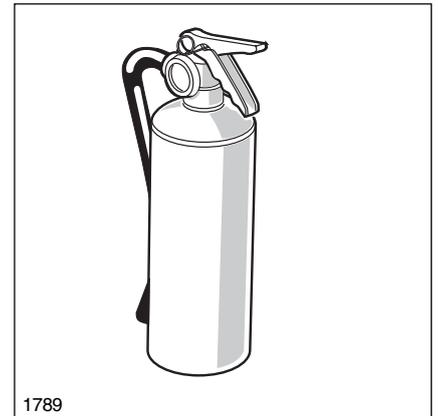
- * Keep bowl as low as possible, but high enough to clear objects in the haul road, as this increases ground clearance of hitch push plate and bail assembly on the front of the machine.

- * Scraper team should alternate pushing and pulling functions during loading cycles to equalize wear of the attachments on both machines.

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

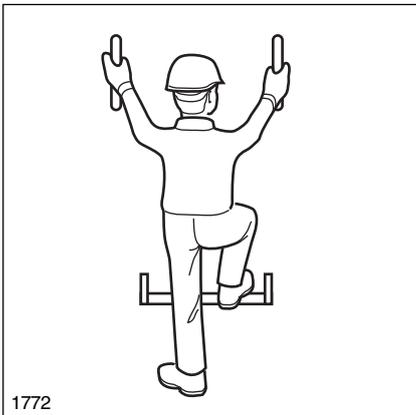
- * Don't use diesel fuel or other flammable fluids for cleaning purposes. Use approved, nonflammable solvents.
- * Make sure all fluid system caps, drain cocks, valves, fittings, lines etc., are secure and leak free.
- * Never use an open flame (match, lighter etc.) when checking fuel, lubricant, coolant and battery fluid levels or when checking for fluid leaks. Use a flashlight or other safe lighting only.
- * Shut off 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 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 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 & 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.



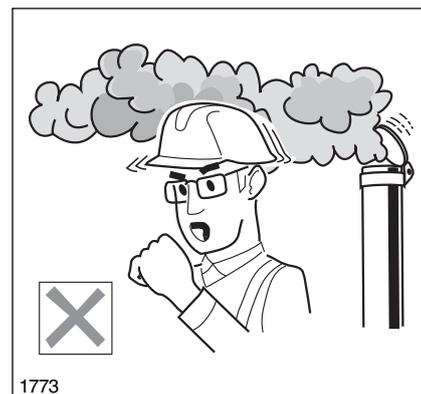
Mounting and Dismounting

- * 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

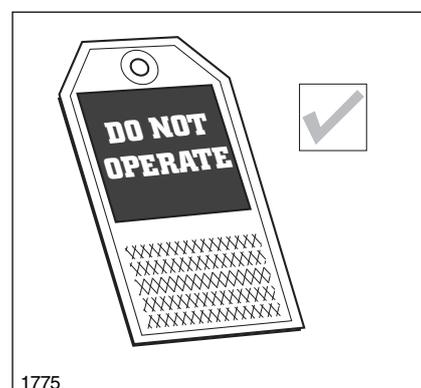
Pre-Starting

- * 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-X 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.



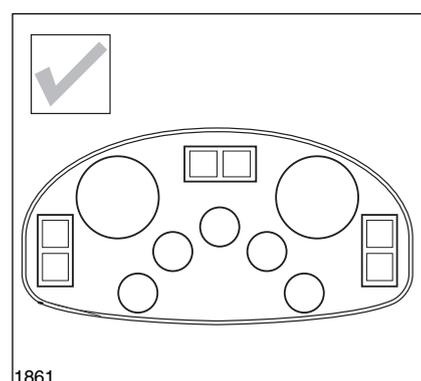
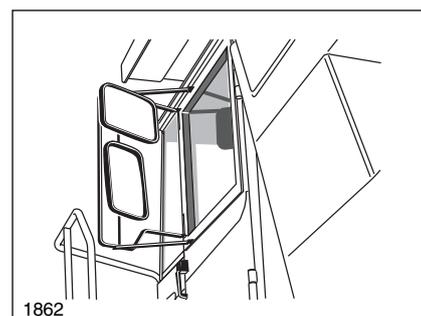
Starting

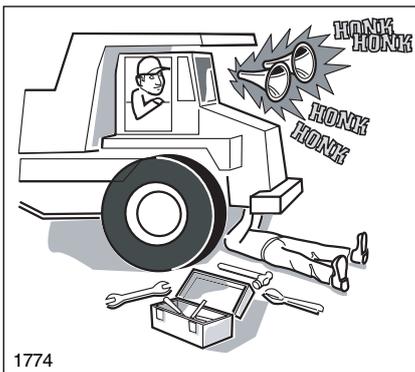
- * Do not start the engine or operate any control if there is a 'DO NOT OPERATE' or similar warning sign attached to any control.
- * Use jumper cables only as recommended. Improper use can result in battery explosion or unexpected vehicle motion.
- * Always obey 'Starting the Engine' instructions described on page 4-7.
- * 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 4-10 to ensure the vehicle is ready for operating.
- * Always wear seat belts when operating the vehicle.
- * Do not operate if exposed personnel enter the immediate work area.
- * Sound horn before starting engine or beginning to move the vehicle; 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 the vehicle in motion and when approaching ground crew.
- * Never release the parking brake or move the machine until the needle in the air pressure gauge is in, or approaching the centre of the green zone.



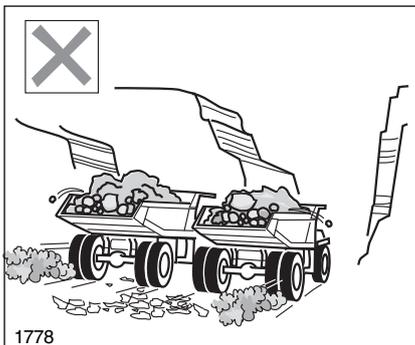


Roading

WARNING

Be extra cautious at raised rail crossings, other raised portions of roads and overpasses to make sure the scraper and raised bowl will clear as it passes. Personal injury or property damage may result if the bowl is not adjusted properly and clearance is not significant.

- * Fully raise bowl so as to clear any obstacle in the path of the scraper. If in doubt as to clearance, stop the machine and check clearance.
- * Always try to face or look in the direction the machine is travelling.
- * Slow down when moving in congested areas. Do not race with other machines. Stop in authorized areas only, except in emergency.
- * Use extreme caution and turn on lights at night or when fog, dust or similar hazards limit visibility. Do not overdrive your headlights.
- * 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 alert for soft ground conditions, especially when working on slopes, near drop-offs or excavations or fill material, which could lead to sudden tipping of the machine.
- * 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
- * Observe instruments frequently. Report any defects or unusual noises in machine during operation.
- * 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.
- * Always shut off the engine when leaving the machine unattended. Apply the parking brake, place the shift lever in the 'Neutral' position, lower the bowl to the ground, place the battery master switch in the 'Off' position and block all road wheels.
- * Match speed to road conditions.
- * Yield the right of way when required. Always give loaded machines the right-of-way when your machine is empty. On narrow or hilly roads, loaded machines should stay next to the high wall. Obey the rules of the road.
- * Always be sure the bowl is in a travel position high enough to clear any obstacles in its path. If in doubt as to clearance, stop the machine and check clearance.



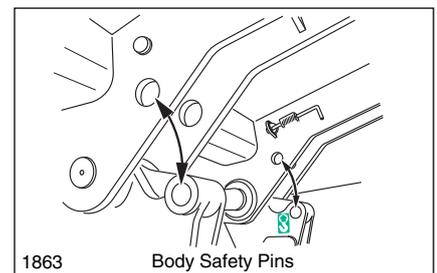
Safety Precautions

- * Brake firmly in one application. Frequent and repeated light applications may exhaust air from reservoir faster than it can be replaced by the compressor. Never operate the machine if a warning light or gauge indicates low air pressure.
- * 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. 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. If the machine starts slipping sideways, turn down-hill immediately.
- * 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.
- * 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 vehicle. Study this Operator's Handbook and the Maintenance Manual before starting, operating or servicing this vehicle. Always follow procedures and safety precautions detailed throughout the Maintenance Manual.
- * Always attach a 'DO NOT OPERATE' or similar warning sign to the ignition switch or a prominent control before cleaning, lubricating or servicing the vehicle.
- * Never allow anyone to work on the vehicle while it is moving. Make sure there is no one on the vehicle before working on it.
- * Do not work under or near an unblocked or unsupported body. Always use the body safety prop. The body safety prop must only be used when the body is empty.
- * Do not work under or near any unblocked or unsupported linkage, part or vehicle.
- * Always install the steering lock bar before making adjustments or servicing the vehicle with the engine running. Refer to 'General' safety section.
- * Always shut down the vehicle according to the procedure under 'Stopping The Engine', described on page 4-14, and turn off the master switch before cleaning, lubricating or servicing the vehicle except as called for in this Operators Handbook or the Maintenance Manual.
- * Always relieve pressure before servicing any pressurised system. Follow the procedures and safety precautions detailed in the relevant Maintenance Manual section.
- * 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 the tyre before attempting to remove any embedded objects or removing the tyre and rim assembly from the vehicle.
- * 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.
- * Do not work under or near an unblocked or unsupported raised operators cab. Ensure any lifting devices are adequate for the job which they are intended.

WHEELS AND TYRES

If tyres on the vehicle 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 the fenders.

NOTICE

TYRES ON THIS VEHICLE 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 Tyre of the vehicle 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.

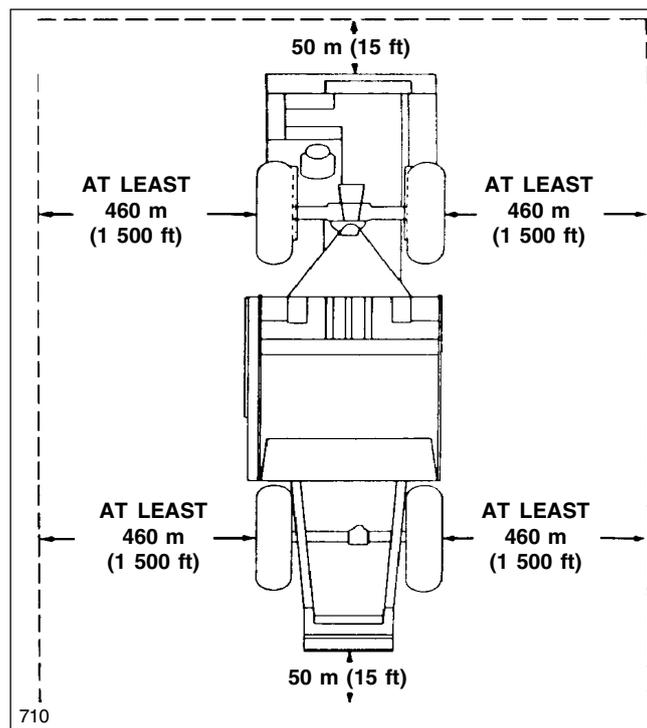


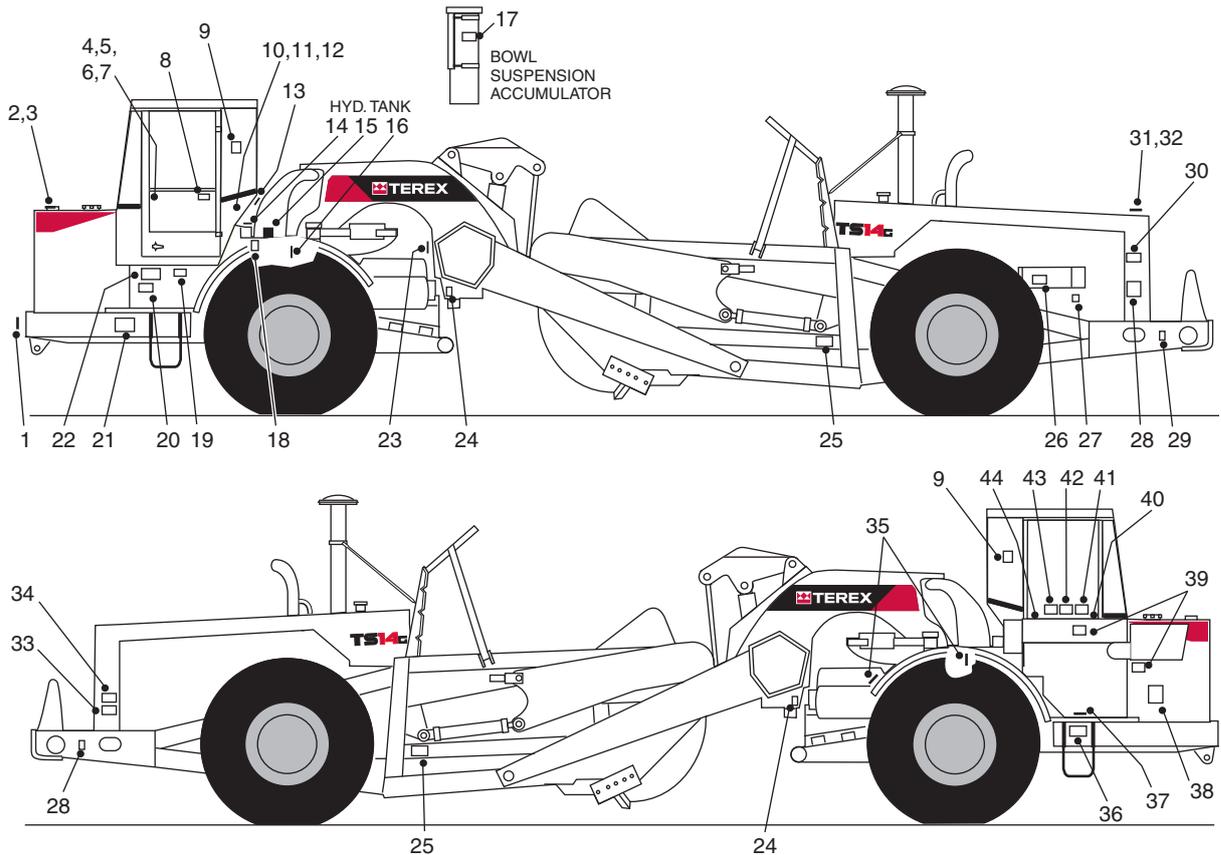
WARNING

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 manufacturers 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 vehicle's tyre(s) is (are) exposed to excessive heat such as a vehicle fire or extremely hot brakes, the hazard of a subsequent violent tyre explosion must be recognized. All nearby persons must avoid approaching the vehicle so as not to be physically endangered in the event of an explosion of the tyre and rim parts. The vehicle should be moved to a remote area, but only when this can be done with complete safety of the operator operating or towing the vehicle. All other persons should stay clear of the vehicle. 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 vehicle by use of hand-held fire extinguishers. If it is absolutely necessary to approach a vehicle 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 (1 500 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 vehicle is shut down or the fire extinguished before approaching closer.





2015

DECALS AND INSTRUCTION PLATES

Decals and instruction plates fitted to vehicles 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 vehicle.

- | | |
|------------------------------------|--------------------------|
| 1. Hook Decal | 23. Lubrication Chart |
| 2. Caution Radiator | 24. Coolant precaution |
| 3. Anti freeze | 25. Nitrogen Tyres |
| 4. Fuse / Relay Box | 26. Warning Hot Surfaces |
| 5. Front Frame Relay Box | 27. Rear Engine Fuses |
| 6. Handlamp | 28. Central Lube |
| 7. Instruction Decal | 29. Hook Decal |
| 8. Caution Cab Door | 30. Warning Hot Surface |
| 9. Emergency Exit | 31. Caution Radiator Hot |
| 10. Instruction Decal | 32. Coolant Notice |
| 11. Vehicle Overall Height | 33. Jump Start Notice |
| 12. Steering Wheel Lock | 34. Welding |
| 13. ROPS and FOPS Certificate | 35. Rotating Driveline |
| 14. Battery Earth | 36. Jump Start Notice |
| 15. Ride Strut Pressure Warning | 37. Battery Earth |
| 16. Anti Syphon | 38. Central Lube |
| 17. Hydraulic Oil Level | 39. Warning Hot Surface |
| 18. Warning Accumulator | 40. Park Brake |
| 19. Notice Nitrogen | 41. Caution Lower Bowl |
| 20. Accumulator Charge Instruction | 42. Towing |
| 21. Global Serial Plate | 43. Hydraulic Control |
| 22. Alternator Precautions | 44. Caution Cushion Bowl |