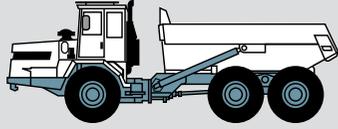


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TA35/TA40

Operation - Safety - Maintenance



Sample of manual. Download All 150 pages at:
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SPECIFY - **PART NUMBER 15272710**

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MOTHERWELL, SCOTLAND ML1 5RY
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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		DIRECTIVES COMPLIED WITH	
MAKE:	TEREX	87/404/EEC	91/368/EEC
MODEL:	TA35 ARTICULATED TRUCK	89/392/EEC	93/44/EEC
	TA40 ARTICULATED TRUCK	89/336/EEC	
UNIT SERIAL NO.		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:	TOM McILWAIN	SIGNATURE:	<i>Tom McIlwain</i>
POSITION:	CHIEF ENGINEER	DATE:	08-09-98

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10. SYMBOL IDENTIFICATION

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 TA35 and TA40 Articulated 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 vehicle 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 vehicle.

READ the CIMA Safety Manual supplied with this vehicle.

**WARNING**

These vehicles are equipped with cylinders containing compressed nitrogen gas. Transportation of these vehicles 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 vehicle 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. Service manuals containing repair/rebuild procedures can be obtained from your dealer.

Machine Identification

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

Information regarding the vehicle model, code and chassis serial number is found on the unit serial number plate on the rear right of the front frame. The vehicle 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. Your dealer is ready to provide you with any additional information needed and should be consulted for additional publications for this vehicle.



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 vehicle is stolen, or to reduce vandalism.

Actions to Discourage Theft and Vandalism

Remove all keys any time the vehicle is left unattended.

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

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

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

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

Actions to Aid in Recovery of Stolen Vehicles

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 vehicle.

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

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



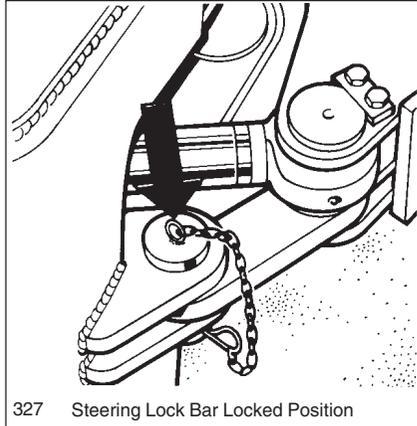
2 - Safety Precautions

2-1

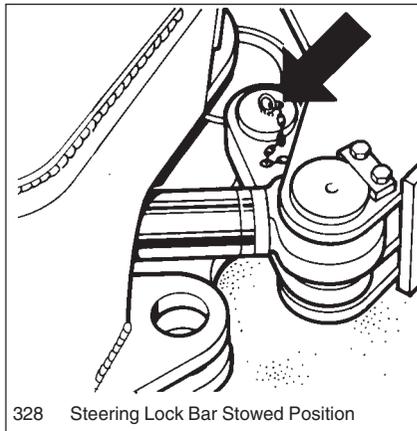
SAFETY PRECAUTIONS

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 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, ear plugs etc..
- * 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.



327 Steering Lock Bar Locked Position



328 Steering Lock Bar Stowed Position

- * 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.

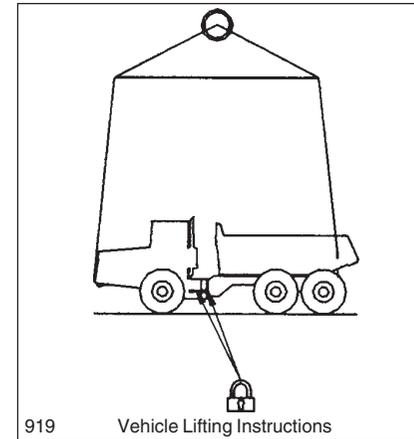
Articulation and Oscillation Locks

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

Vehicle Lifting Precautions

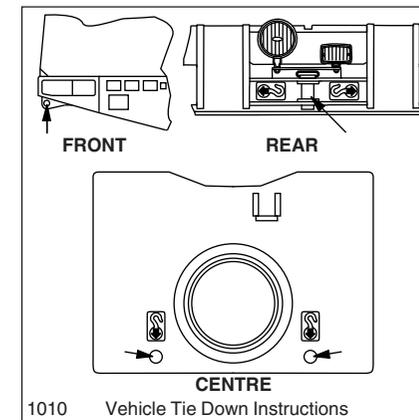
- * Prior to lifting, the vehicle should be parked on a level surface, wheels blocked, steering lock bar connected, oscillation lock pin inserted and the parking brake disengaged.
- * The vehicle should be lifted using a spreader bar if possible. Lift using FOUR slings from the lifting points provided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

Note: Be aware that this vehicle is free to oscillate if not lifted correctly. If in any doubt contact your dealer for further information.



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.



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 machine).
- * 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 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, alternator leads, engine ECU, transmission ECU and body hydraulic joystick 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 vehicle 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 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.

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 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 4-6.
- * 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 station.

Operating

- * Ensure all cab glass, mirrors and light lenses are clean during vehicle 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 vehicle.
- * Always perform 'Pre-Operating Checks' described on page 4-9 to ensure the vehicle is ready for operating.
- * Always wear seat belts when operating the vehicle.
- * In the event of a loss of steering system supply pressure, a red warning light on the instrument panel will illuminate. If this light illuminates, indicating a loss of steering power, the vehicle 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 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 vehicle in motion and when approaching ground crew.
- * Be sure the body is fully down before moving the vehicle.
- * Always try to face or look in the direction the vehicle 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 vehicle 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 and/or retarder. Always maintain safe speeds for haul road operating conditions for maximum control. Reduce speed before turning.
 - * In the event of a loss of electric power to the gear shift control, the transmission will automatically shift to NEUTRAL. If this occurs, stop the vehicle using the service brakes, apply the parking brake and do not operate until the fault is corrected.
 - * 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 vehicles. Stop in authorized areas only, except in emergency.
 - * Brake firmly in one application. Do not FAN the pedal. Never operate the vehicle if a warning light indicates a fault in the braking system.
 - * Always give loaded vehicles the right-of-way when your vehicle 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 vehicle is being loaded or when dumping a load.

-
- * Always stay in cab when being loaded.
 - * Always lower the body and shut down the vehicle according to the procedure under 'Stopping The Engine' described on page 4-14 before leaving the vehicle 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 vehicle 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 vehicle. Study the Operator's Handbook and 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 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 no one is on the vehicle before working on it.
- * Do not work under or near 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 machine.
- * 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 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 pressurized 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.

