

**OPERATOR'S MANUAL
FOR
LOADER
SCOOP TYPE, DED 4 X 4
ARTICULATED FRAME STEER,
2 1/2 CUBIC YARD BUCKET (CCE),
AIRBORNE/AIRMOBILE,
SECTIONALIZED
AND
NONSECTIONALIZED**

**MODEL 950BS
NSN 3805-01-126-7914
MODEL 950BSCE
NSN 3805-01-260-5162
MODEL 950BNS
NSN 3805-01-126-7915
MODEL 950BNSCE
NSN 3805-01-260-5163**

This technical manual is an authentication of the manufacturers commercial literature and does not conform with the format and content specified in AR 25-30, Military Publications. This technical manual does, however, contain available information that is essential to the operation and maintenance of the equipment.

*This publication supersedes TM 5-3805-258-10 dated September 1987

Approved for public release; distribution is unlimited.

HEADQUARTERS, DEPARTMENT OF THE ARMY

JULY 1991

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington D.C., 26 July 1991

ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL SUPPORT
MAINTENANCE MANUAL FOR
LOADER, SCOOP TYPE, DED 4X4,
2 1/2 CUBIC YARD BUCKET (CCE)
AIRBORNE/AIRMOBILE, SECTIONALIZED AND NONSECTIONALIZED
MODELS 950BS; 950BSCE; 950BNS; 950 BNSCE

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REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes, or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2, located in the back of this manual, directly to: Commander, U. S. Army Tank-Automotive Command, ATTN: AMSTA-MB, Warren, MI 48397-5000. A reply will be furnished to you.

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Chapter 1

FORWARD

This guide contains operation instructions and lubrication and maintenance information,

The operation section is a reference for the new operator and a refresher for the experienced one. Read - study - and keep it handy.

Illustrations guide the operator through correct procedures of checking, starting, operating and stopping the vehicle.

Operating techniques outlined in this publication are basic. Skill and techniques develop as the operator gains knowledge of the vehicle.

The maintenance section is a guide to equipment care. The illustrated, step-by-step instructions are grouped by servicing intervals. Topics without specific intervals are listed under "When Required." Topics in the "Lubrication and Maintenance Chart" are referenced to detailed instructions that follow.

Use the service meter to determine servicing intervals. Calendar intervals shown (daily, weekly, monthly, etc.) may be used instead of service meter intervals if they provide more convenient servicing schedules and approximate the indicated service meter reading,

Under extremely severe, dusty or wet operating conditions, more frequent lubrication than is specified in the "Lubrication and Maintenance Chart" may be necessary.

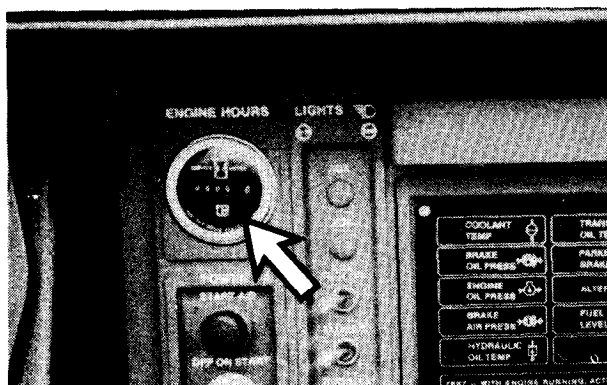
Perform service on topics at multiples of the original requirement. For example, at Every 500 Service Hours or 3 Months, also service those topics listed under Every 250 Service Hours or Monthly, Every 50 Service Hours or Weekly and Every 10 Service Hours or Daily.

Some photographs in this publication may show details or attachments that may be different from your vehicle. Some photographs show guards or covers removed for clear illustration, that need not be removed for routine lubrication and maintenance.

Continuing improvement and advancement of product design may have caused changes to your vehicle which are not included in this publication. Each publication is reviewed and revised, as required, to update and include such changes in later editions.

Maintenance forms, records and reports which are used by maintenance personnel at all levels are listed in and prescribed by DA Pam 738-750.

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SAFETY

Warning Plates & Decals

There are several specific warning signs on your vehicle. Their exact location and description of the hazard are reviewed in this section. Please take the time to familiarize yourself with these signs.

WARNING

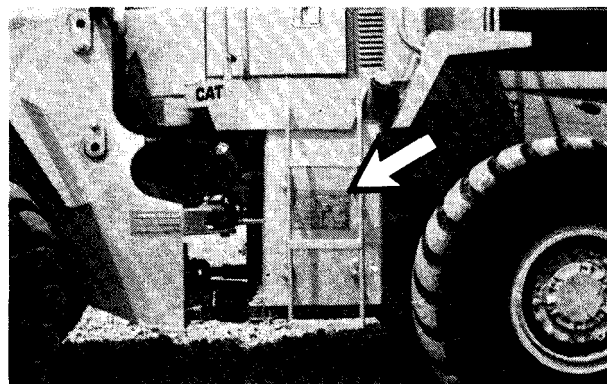
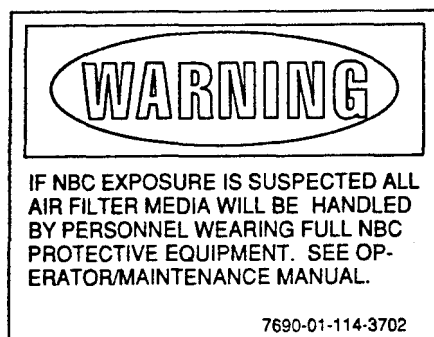
Do not operate this machine unless you have read and understand the instructions in the Operation Guide. Improper machine operation is dangerous and could result in injury or death. The Operation Guide is in a holder located in the operator's compartment or on the seat back. Proper operation is your responsibility.

WARNING

Lubrication, maintenance or repair of this machine can be dangerous unless performed properly. Each person must satisfy himself that he has the necessary skill and information, proper tools and equipment, and that his work method is safe and correct.

AIR CLEANER/AIR FILTER NBC WARNING DECAL

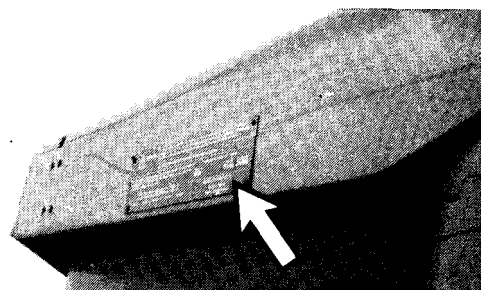
A decal has been developed that warns of NBC exposure. It is to be positioned in a noticeable place on or near the air filter housing or air cleaner. You may order the decal using part number 12296626, CAGEC 19207. Refer to TB 43-0219 for further information.



Located on the vehicle platform,

WARNING

Avoid possible weakening of this ROPS. The protection offered by this ROPS will be impaired if it has been subjected to structural damage or has been involved in an overturn accident.



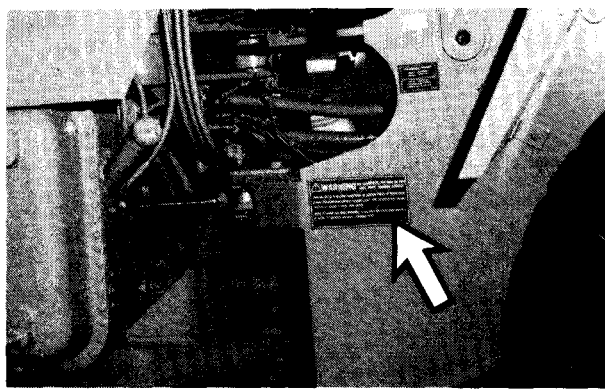
Located on the ROPS,

SAFETY

WARNING

No clearance for man in this area when turning the vehicle. When the machine is to be lifted, transported on another vehicle, or service work is being performed near the center of the vehicle: Connect safety rod between front and rear frames to keep the machine in a straight ahead position.

Before operation and when operating: Be sure the safety rod, located near the lower center of the machine, is disconnected and pinned to the retaining plates.



Located on the vehicle at the center pivot.

General



Wear a hard hat, protective glasses, and other protective equipment as required by job conditions.

Do not wear loose clothing or jewelry that can catch on controls or other parts of the vehicle.

Keep the vehicle, especially the deck and all steps, free of foreign material. Secure all loose items such as lunch boxes, tools, etc.

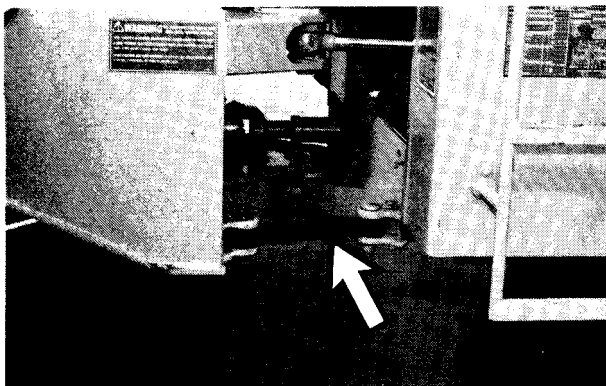
Know the hand signals and who gives them. Accept signals from one person only.

Make sure that clearance flags, lights and other required warnings are on the vehicle when reading.

Know your stopping distance at any given speed. Regulate the travel speed accordingly. Do not coast.

Vehicle bounce affects the steering control. Slow down on rough roads.

Road the vehicle in forward direction only, not in reverse.

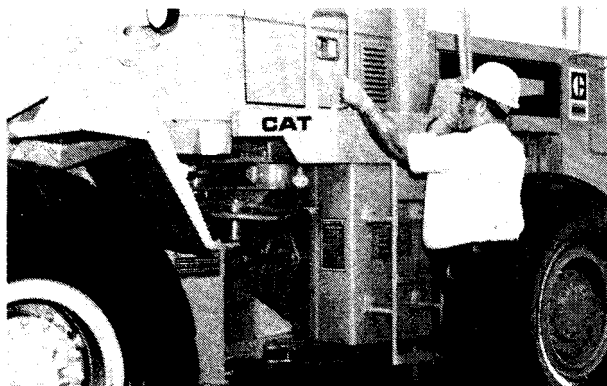


Install the antipivot link before working in the center pivot area.

Report all needed repairs immediately.

Mounting and Dismounting

Climb on and off the vehicle only where steps and/or hand holds are provided.



Use both hands, and face the vehicle when mounting and dismounting.

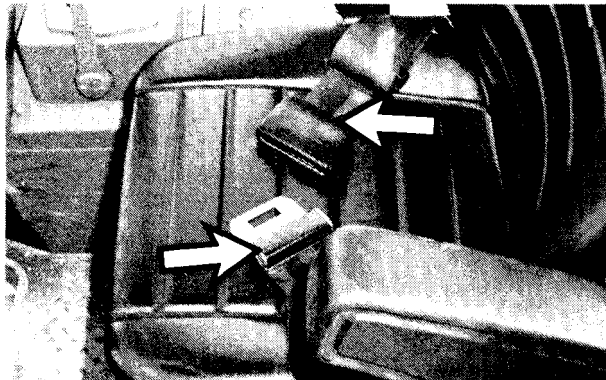
Never get on or off a moving vehicle.
Never jump off a vehicle.

Do not try to climb onto the vehicle while carrying tools or supplies. Use a hand line to pull equipment up onto the platform.

Always lower all equipment before dismounting.

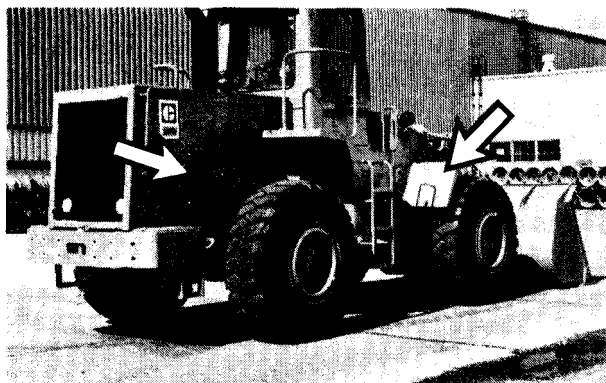
SAFETY

Preparing to Start the Engine



Inspect the seat belt, the buckle and all mounting hardware. Replace the belt or any damaged hardware. Tighten any loose mounting hardware.

Adjust the seat so that full brake pedal travel can be obtained with the operator's back against the seat back.



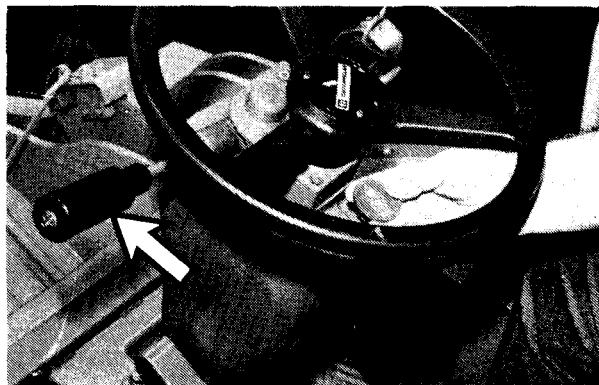
Make certain all protective guards and covers are secured in place.

Make sure the vehicle is equipped with the proper lighting system, as required by conditions. Make sure all lights are working properly.

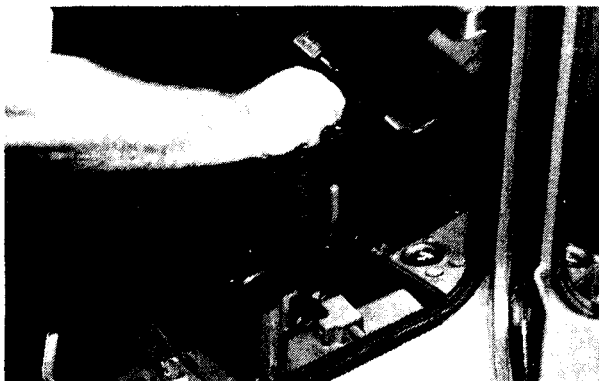
Inspect the vehicle for potential hazards.

Make sure no one is working on, underneath, or close to the vehicle before starting the engine or beginning to move the vehicle.

Starting the Engine



Shift the transmission control lever to neutral and engage the parking brake before starting the engine.



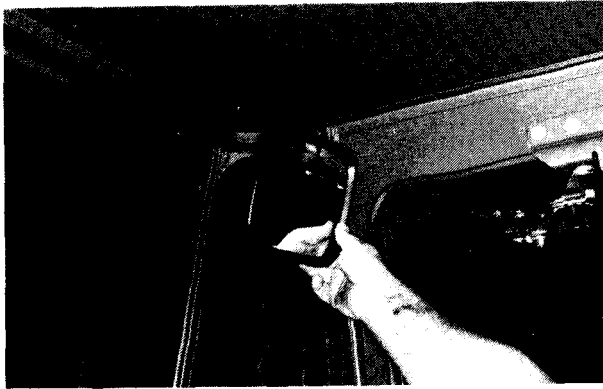
Lower all implements and move all controls to hold before starting the engine.

Start and run the engine in a well ventilated area only. In an enclosed area, vent the engine exhaust to the outside.

Preparing to Operate

Clear all personnel from the vehicle and the area.

Clear all obstacles from the path of the vehicle. Beware of hazards such as wires and ditches.

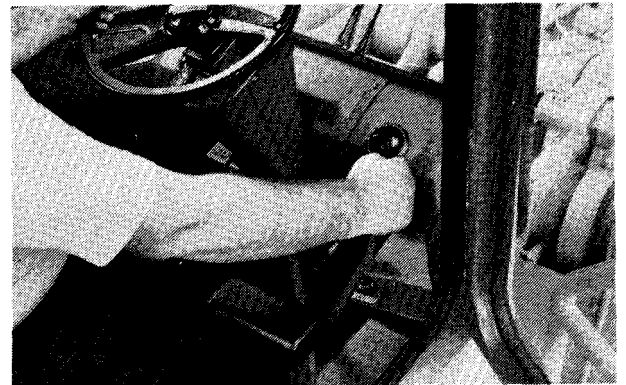


Adjust the rear view mirror for best vision.

Make sure the vehicle horn, the backup alarm, and all other warning devices are working properly.

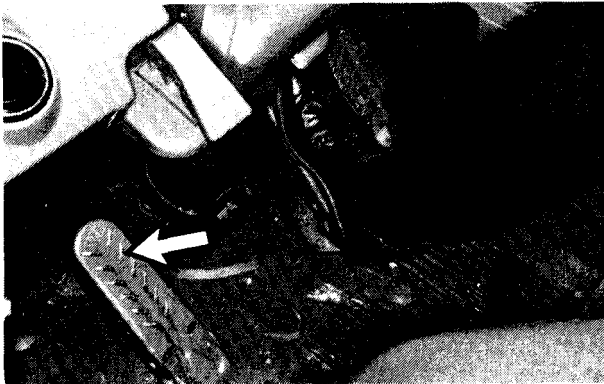
Fasten the seat belt securely.

Check for proper operation of all controls and protective devices while moving slowly in an open area.

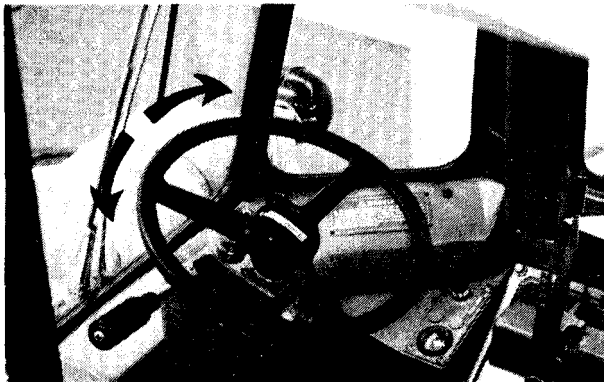


Test all controls before starting to work.

SAFETY

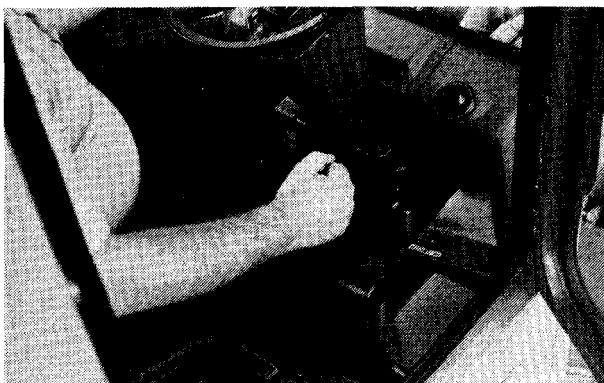


Be sure that all brakes are operating properly.



Test the right and left steering.

Operating



Operate the controls only while seated.
Operate the controls only with the engine running.

Do not allow riders on the vehicle unless an additional seat, a seat belt and rollover protection are provided.

The operator must satisfy himself that no one will be endangered before moving the vehicle.

Report any needed repairs, noted during operation, immediately.

Stay a safe distance from the edge of cliffs, from overhangs, slide areas and from other vehicles.

Carry the implements close to the ground, approximately 40 cm (15 inches) above ground level.

Be careful to avoid tipping when working on hills, banks or slopes, and when crossing ditches, ridges or other obstructions.



Reduce the travel speed and use less steering angle to avoid tipping, when working on hills, banks or slopes.

Work up and down slopes, rather than sideways, whenever possible.

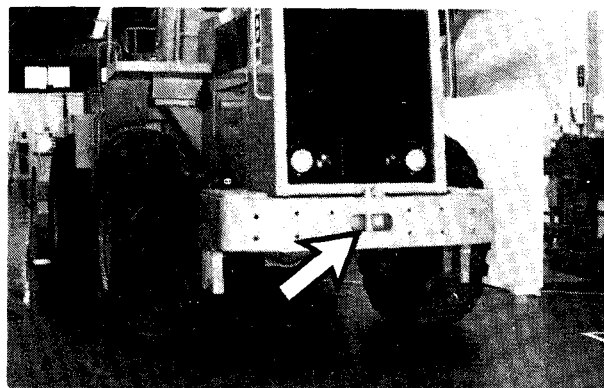
If your vehicle begins to side-slip on a grade, immediately dispose of the load and turn the vehicle downhill.



Keep the vehicle under control - do not try to work it over its capacity.

Stop the vehicle frequently at night - walk around and inspect the vehicle - stay alert.

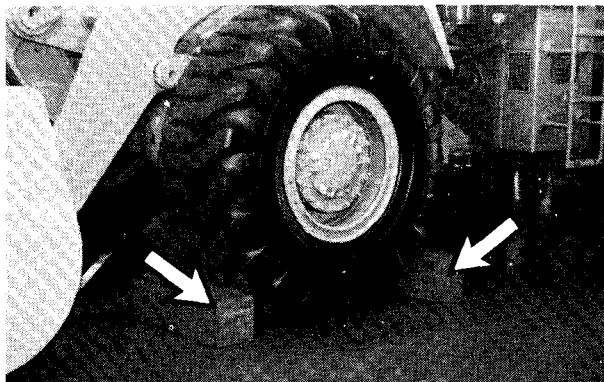
Be sure all hitch points and the tow cable are adequate,



Connect the trailing equipment to a drawbar or hitch only.

Personnel should not be between the vehicle and the trailing equipment while maneuvering to connect. Block tongue or hitch of trailing equipment to align it with the drawbar or hitch.

Parking the Machine



Park on a level surface. If it is necessary to park on a grade, block the wheels securely.