

**ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL SUPPORT
MAINTENANCE 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 5-3805-258-24-1 dated September 1987

Approved for public release; distribution is unlimited

HEADQUARTERS, DEPARTMENT OF THE ARMY AUGUST 1991

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

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MAINTENANCE MANUAL FOR
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2 1/2 CUBIC YARD BUCKET (CCE)
AIRBORNE/AIRMOBILE,
SECTIONALIZED AND NONSECTIONALIZED
MODELS 950BS; 950BSCE; 950BNS; 950BNSCE

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

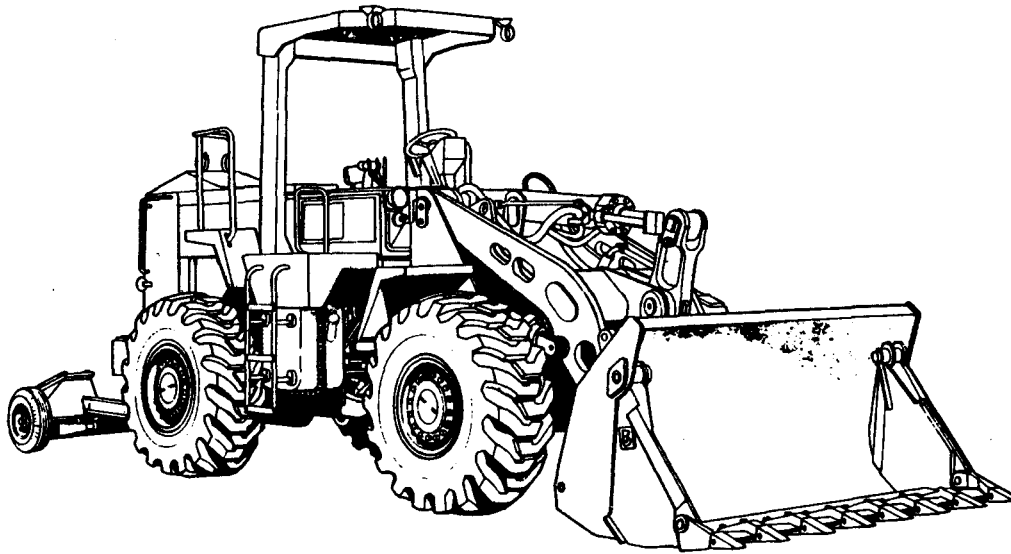
You can help improve this manual. If you find any mistakes, or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2, located in the back of this manual, directly to: Commander, U. S.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

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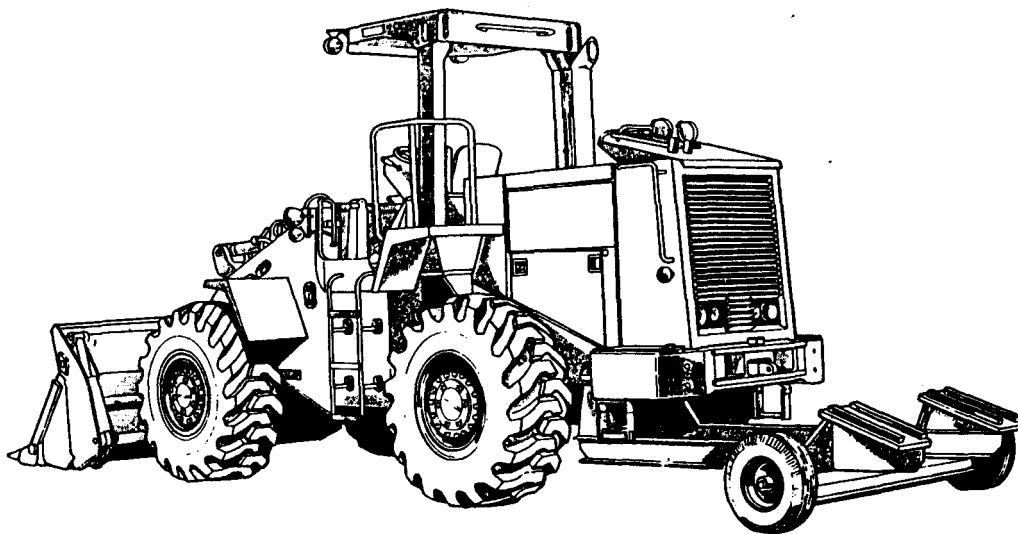
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950BNS AND 950BNSCE Scoop Loader, Non-Sectionalized
NSN 3805-01-126-7915
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LUBRICATION AND MAINTENANCE

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Foreword

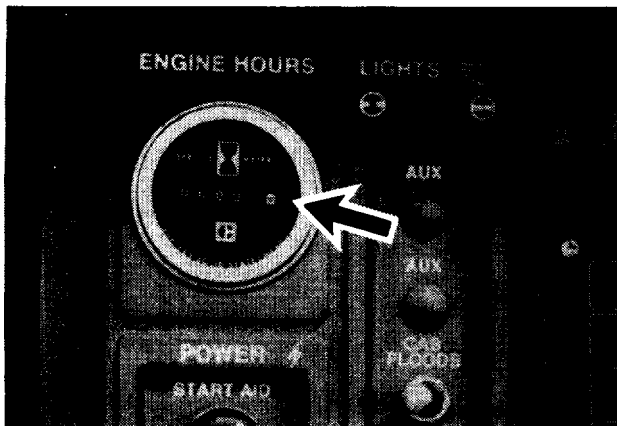
This section is a guide to equipment care.

The illustrated step-by-step instructions are grouped by servicing intervals; items without specific intervals are listed under "When Required, " Items in the "Lubrication and Maintenance Chart" are referenced to detailed instructions that follow,

Use the service meter to determine servicing intervals, Calendar intervals (daily, weekly, 2 weeks, etc.) shown may be used instead of service meter intervals if it provides more convenient servicing schedules; and approximates 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,

Some photographs in this publication may show details or attachments that may be different from your unit. Also, for some photographs, the ROPS (Roll-Over Protective Structure) may have been removed for illustrative purposes.



Service Meter

Perform previous interval items at multiples of the original requirement. For example, at "Every 100 Service Hours or 2 Weeks," also perform those items listed under "Every 50 Service Hours or Weekly" and "Every 10 Service Hours or Daily."

SAFETY



To prevent personal injury, always lower all equipment, stop the engine, set the parking brake and block or restrain the machine before servicing it, unless otherwise specified.

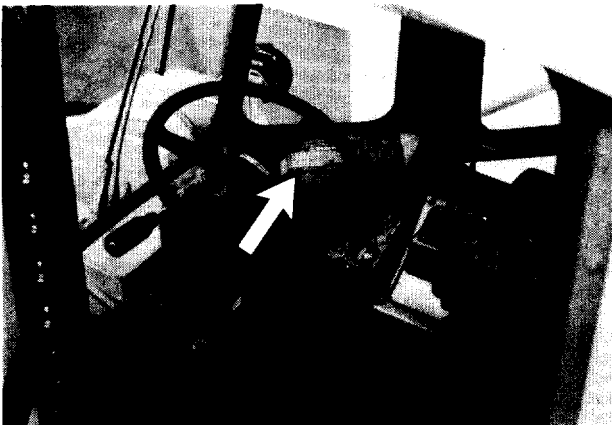


Wear a hard hat, protective glasses and protective shoes as the job requires.

Use the proper tools. Repair or replace broken or damaged equipment.

Operate the engine only in a well ventilated area

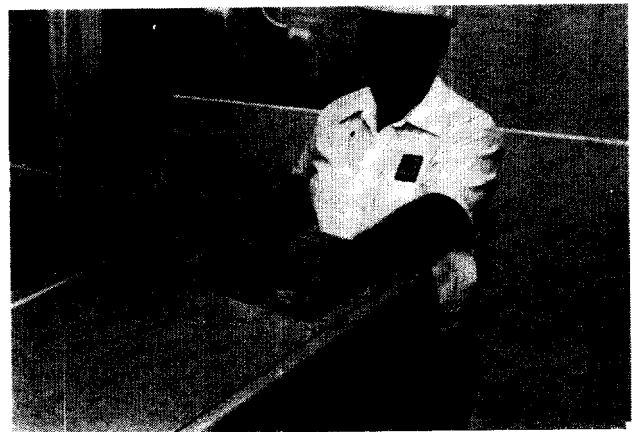
When operating the engine in a closed area, vent the exhaust to the outside.



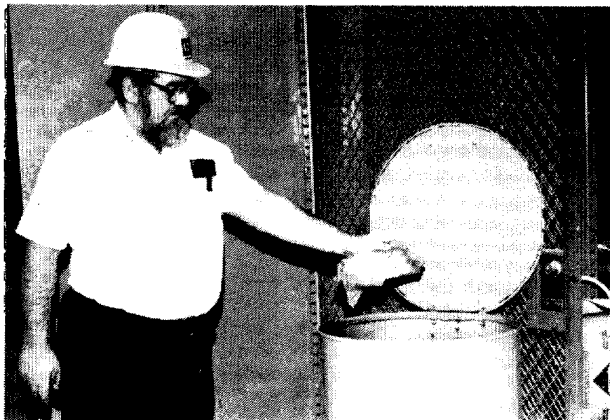
Read and understand all warning and caution information provided on the machine. Follow servicing instructions carefully.

Do not attempt adjustments while the machine is moving or the engine is running.

Do not allow unauthorized personnel on the machine while it is being serviced.



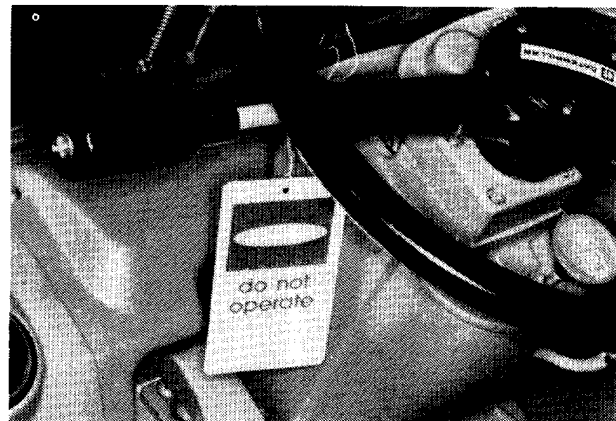
SAFETY



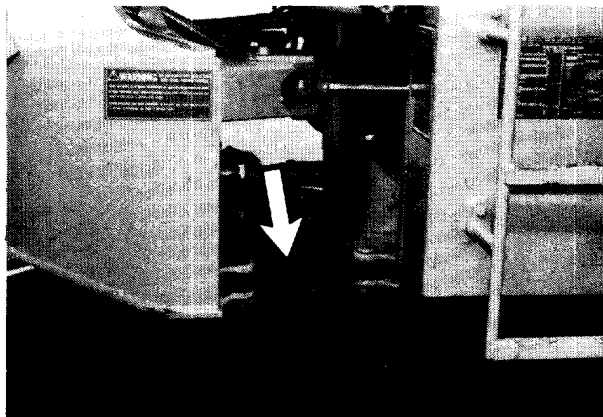
Store all oily rags and other combustible material in a container in a safe place.

Do not smoke when observing the battery electrolyte level. Batteries give off flammable fumes.

Electrolyte solution is an acid. Do not allow the electrolyte solution to contact the skin or eyes.



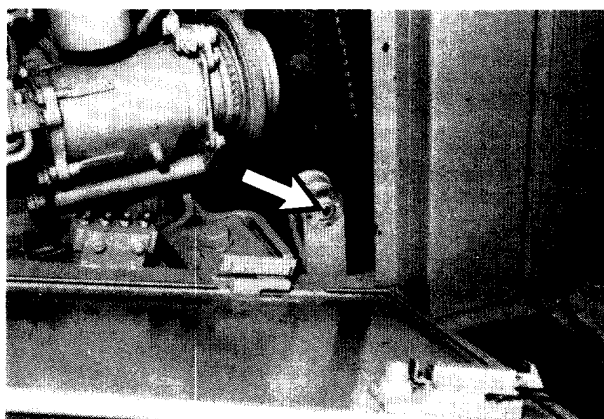
Engage the parking brake, block the tires and attach warning tags to the controls while servicing the machine.



Connect frames with the antipivot link before servicing the machine center area.

To avoid possible weakening of the ROPS (Rollover Protective Structure), consult a Caterpillar dealer before altering the ROPS in any way. The protection offered by the ROPS will be impaired if it has been subjected to structural damage or has been involved in an overturn incident.

When using pressure air, wear protective glasses and protective clothing. Maximum air pressure must be below 2105 kPa (30 psi) for cleaning purposes.



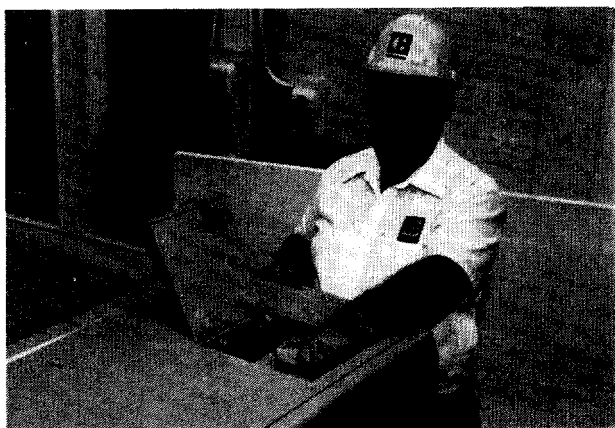
Turn the disconnect switch OFF and remove the key before servicing the electrical system.

SAFETY

Diesel fuel and all lubricants are flammable. Do not weld on pipes or tubes that contain oil. Clean them thoroughly with nonflammable solvent before welding.

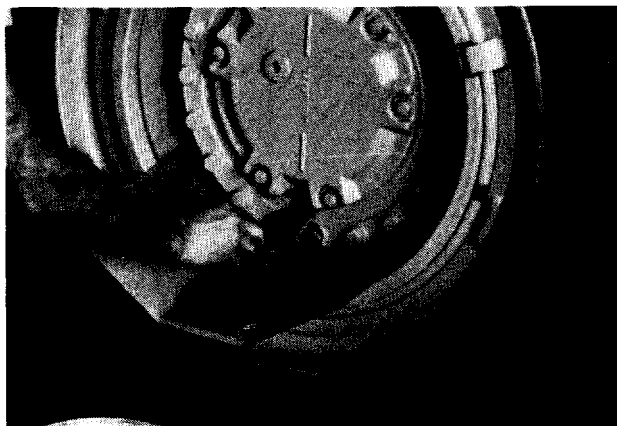
Do not smoke when refueling.

Have jobsite fuel tanks protected by an embankment or steel post so tanks are not struck by equipment when fueling.

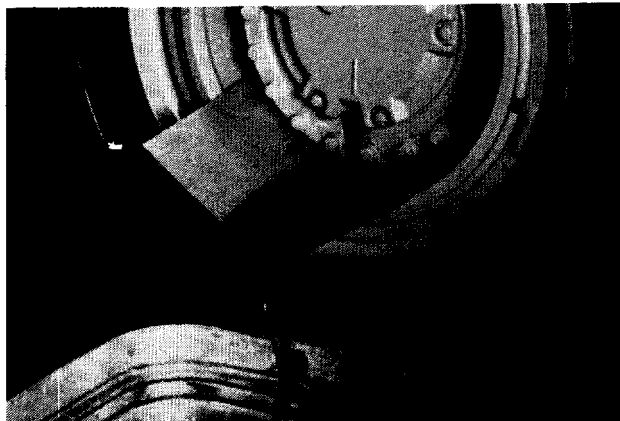


Use caution when removing the radiator cap or any drain plugs, grease fittings or pressure taps.

Do not attempt any repairs you do not understand.



Whenever draining a lubricant, extreme caution should be used; the lubricant may be hot and can cause personal injury.



Collect drained oil and wipe up spills when draining oil.

Accumulated grease and oil on a machine is a fire hazard. Remove this debris with steam cleaning or high pressure water at least every 1000 service hours or anytime a significant quantity of oil is spilled on the machine.

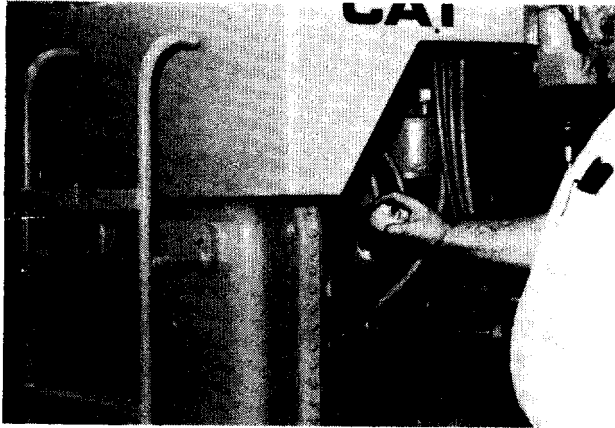
Loose or damaged lines, tubes, and hoses, which leak, can cause fires.*

* Do not bend or strike high pressure lines. Do not install bent or damaged lines, tubes, and hoses.

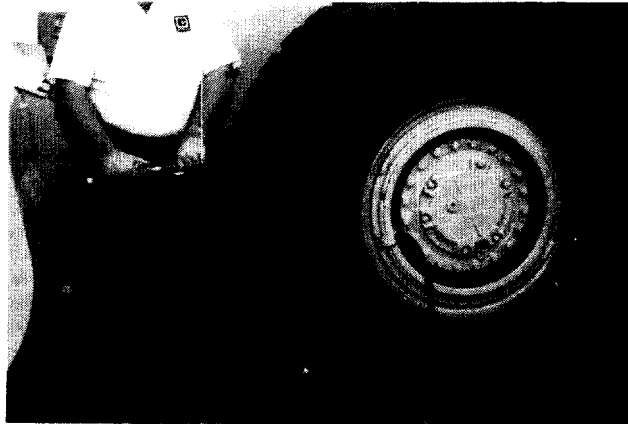
*Inspect all lines, tubes, and hoses, carefully. Tighten all connections to the recommended torque. Make sure that all clamps, guards, and heat shields, are installed correctly to prevent vibration, rubbing against other parts, or excessive heat during operation.

* Shields, which protect hot exhaust components from oil or fuel spray, in the event of a line, tube, or seal failure, must be installed correctly.

SAFETY



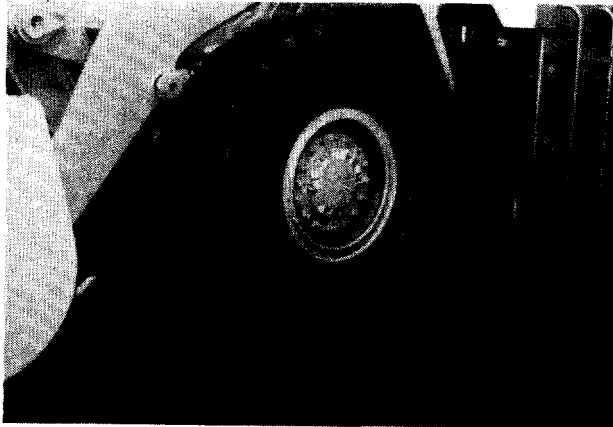
Hot hydraulic oil can cause personal injury. Remove the hydraulic tank fill cap slowly to relieve the tank pressure. Allow the oil to cool before draining the tank.



Use a self-locking inflation chuck, and stand behind the tread when inflating tires.

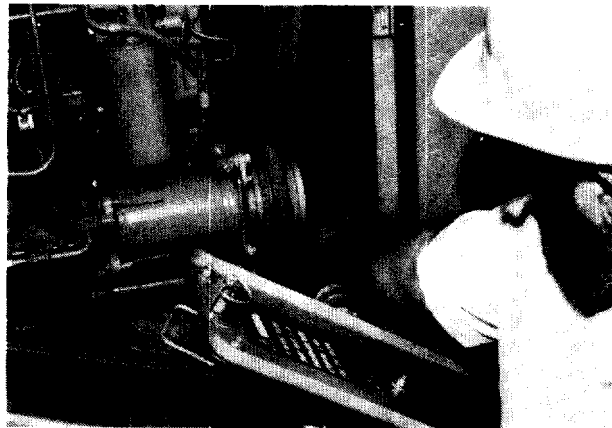
When starting with a boost, make sure all battery vent caps are firmly in place. Attach the ground cable last, and remove it first, to prevent sparks from occurring near the battery, which could explode battery vapors.

If machine is equipped with slave receptacle, connect slave cable to booster source and then to vehicle slave receptacle.



If the engine is not running, do not release the emergency or parking brake systems unless the machine is blocked or restrained.

Hot oil and components can cause personal injury. Do not allow hot oil or components to contact the skin.

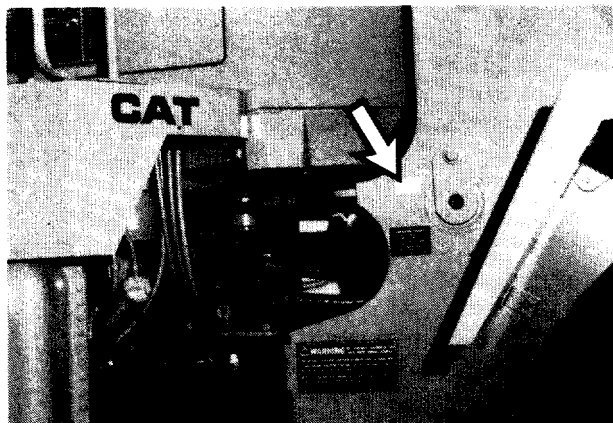


Attach the ground cable from the booster source to the starter ground terminal or the disconnect switch terminal on the machine to be started.

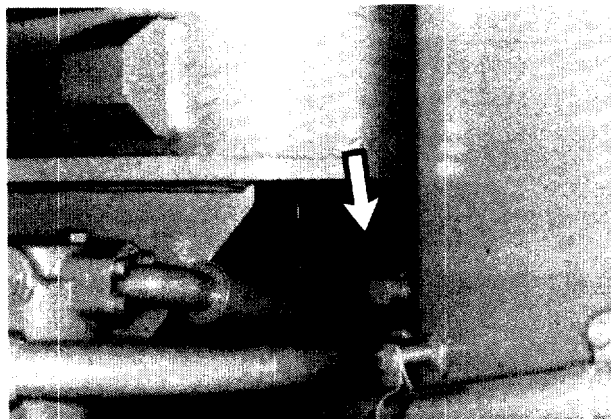
This machine has a 24 Volt starting system. Use only the same voltage (24 Volt) for boost starting. The use of a welder or higher voltage will damage the electrical system.

SERIAL NUMBER LOCATIONS

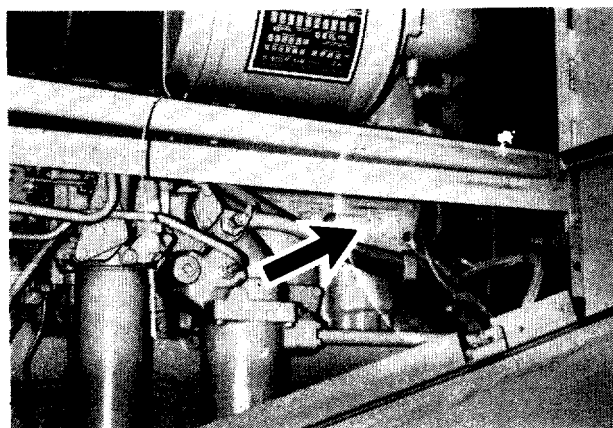
For quick reference, record your machine's serial numbers in the spaces provided below the photographs.



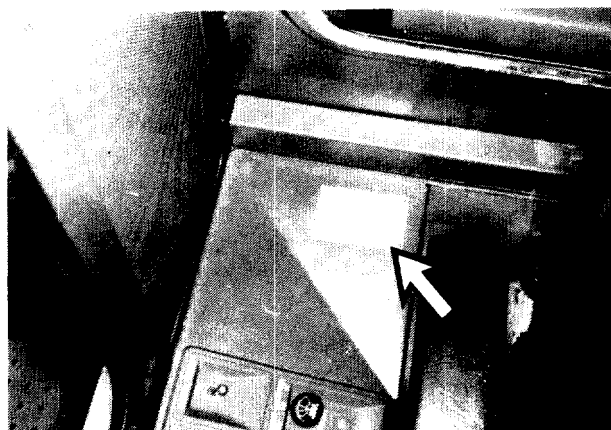
Vehicle Serial Number _____



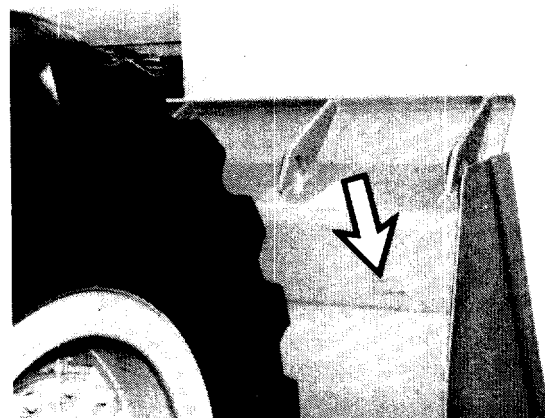
Transmission Serial Number _____



Engine Serial Number _____



Combined Serial Number Plate



Bucket Serial Number _____