

5720 and 5820 Self-Propelled Forage Harvesters



TECHNICAL MANUAL 5720 and 5820 Self-Propelled Forage Harvesters

TM1244 (01DEC84) English

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ENGLISH



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5720 and 5820 Self-Propelled Forage Harvesters

Technical Manual TM-1244 (DEC-84)

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All information, illustrations and specifications contained in this technical manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

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A JOHN DEERE ILLUSTRATION

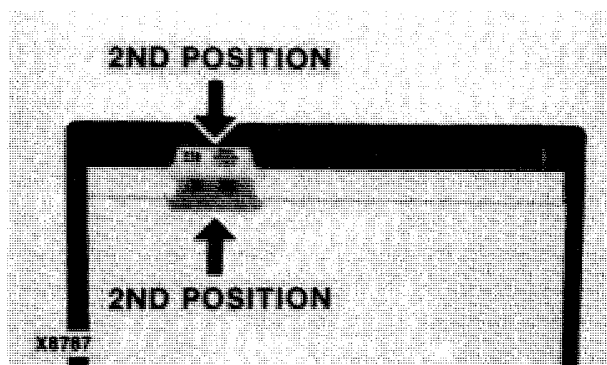
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TAB POSITIONS

Each green tab and its corresponding yellow tab have the same tab position. This is to help you quickly locate the related information.

Tab Color	Tab Position	Section No.	Description
Green	2nd	20	Engine Repair
Yellow	2nd	220	Engine Operation and Tests

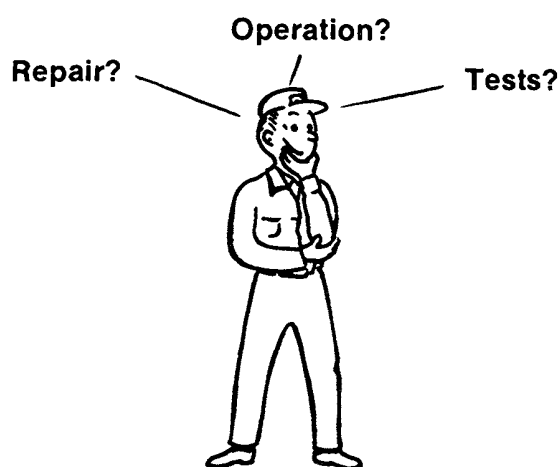


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THREE-STEP PROCEDURE

Use the following three-step procedure to locate the desired information.

1. Determine the type of information you need. Is it repair, operation, or test?
2. Go to the the appropriate section tab:
Green for Repair
Yellow for Operation or Tests

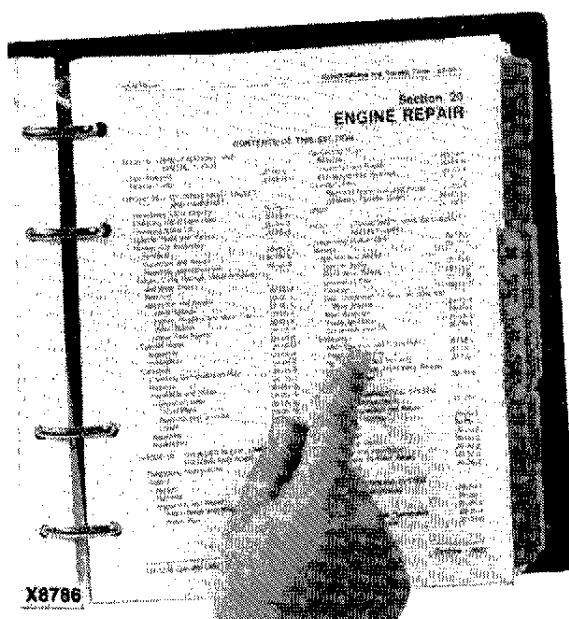


X8788 TYPE OF INFORMATION?

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Contents

3. Use the table of contents on the first page of the section to locate the information.



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OBSERVE SAFETY RULES



This safety alert symbol identifies important safety messages in this manual and on the machine. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

Avoid loose clothing that can catch in moving parts and put you out of work.

Wear your safety glasses while on the job.

Avoid working on equipment with the engine running. If it is necessary to make checks with the engine running, ALWAYS USE TWO PEOPLE—with the operator, at the controls, able to see the person doing the checking. Also, place the transmission in neutral and set the brake. KEEP HANDS AWAY FROM MOVING PARTS.

Keep transmission and brake control units properly adjusted at all times. Before making adjustments, stop engine.

Before removing any housing covers, stop engine. Take all objects from your pockets which could fall into the opened housings. Don't let adjusting wrenches fall into opened housings.

Don't attempt to check belt tension while the engine is running.

Don't adjust the fuel system while the machine is in motion.

Before repairing the electrical system, or performing a major overhaul, make sure the batteries are disconnected.



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AVOID FIRE HAZARDS

Be prepared if an accident or fire should occur. Know where the first aid kit and the fire extinguishers are located—know how to use them.

Don't smoke while refueling or handling highly flammable material.

Shut off the engine when refueling.

Use care in refueling if the engine is hot.

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Don't use open pans of gasoline or diesel fuel for cleaning parts. Use good commercial, nonflammable solvents.

Provide adequate ventilation when charging batteries.

Don't check battery charge by placing metal objects across the posts.

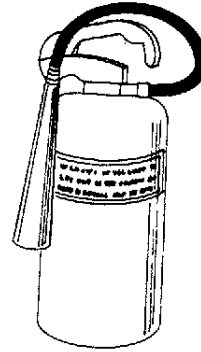
Don't allow sparks or open flame near batteries.

Don't smoke near battery.

Never check fuel or coolant level with an open flame.

Never use an open flame to look for leaks anywhere on the equipment.

When preparing engine for storage, remember that inhibitor is volatile and therefore dangerous. Seal and tape opening after adding the inhibitor. Keep container tightly closed when not in use.

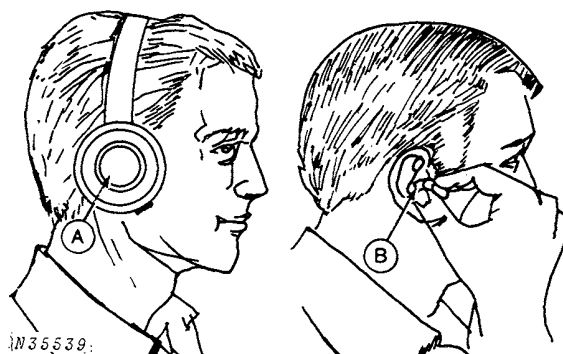


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PROTECT AGAINST NOISE

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs (A) or earplugs (B) to protect against objectionable or uncomfortable loud noises.

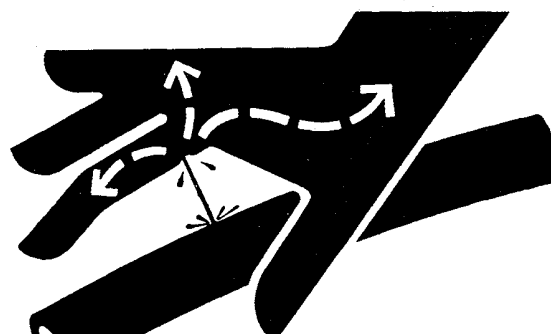


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AVOID HIGH-PRESSURE FLUIDS

Escaping fluid under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Keep hands and body away from pinholes and nozzles which eject fluids under high pressure. Use a piece of cardboard or paper to search for leaks. Do not use your hand.



If ANY fluid is injected into the skin, it must be surgically removed within a few hours by a doctor familiar with this type injury or gangrene may result.

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USE ADEQUATE SERVICE FACILITIES

Keep the service area clean and dry. Wet or oily floors are slippery. Wet spots can be dangerous when working with electrical equipment.

Make sure the service area is adequately vented.

Periodically check the shop exhaust system for leakage. Engine exhaust gas is dangerous.

Be sure electrical outlets and tools are properly grounded.

Service the machine on a level, hard-surfaced area.

Use lifting equipment and safety stands which have adequate strength for the job being performed.

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USE BLOCKS WHEN NEEDED

Block the wheels to keep the machine from moving while it is being serviced.

Whenever the engine is to be removed for service, block the machine securely, so it will not move.

Whenever working under the harvesting units, lower jack-stands (if equipped) and block the units so they will not fall.

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Hydrostatic System (Ground Drive):

Pump:

Type Variable displacement
Sunstrand 23 Series
Speed 2100 rpm
Displacement (89 cm³) 0 - 5.43 cu. in.
per revolution

Charge Pump:

Type Gear
Speed 2100 rpm
Displacement (18.0 cm³) 1.1 cu. in.
per revolution
Flow rate (37.9 L/pm) 10 gpm at 2100 rpm

Motor:

Type Fixed displacement
Sunstrand 23 Series
Speed 0 - 2100 rpm
Displacement (88.98 cm³) 5.43 cu. in.
per revolution
Relief pressure (345 bar) (350 kg/cm²) 5000 psi
Flow rate (185 L/pm) 49 gpm at 2100 rpm

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