

675B Skid-Steer Loader

John Deere Horicon Works

OMM79635 Issue F9

(This manual replaces OM-M75868 Issue G7)

LITHO IN U.S.A.
ENGLISH

Introduction

THANK YOU for purchasing a John Deere product.

READ THIS MANUAL carefully to learn how to operate and service your machine correctly. Failure to do so could result in personal injury or equipment damage.

THIS MANUAL SHOULD BE CONSIDERED a permanent part of your machine and should remain with the machine when you sell it.

MEASUREMENTS in this manual are U.S. customary units and their metric equivalents.

RIGHT-HAND AND LEFT-HAND sides are determined by facing in the direction of forward travel.

WRITE PRODUCT IDENTIFICATION NUMBERS in the Specifications section. Accurately record all the numbers to help in tracing the machine should it be stolen. Your dealer also needs these numbers when you order parts. If this manual is kept on the machine, also file the identification numbers in a secure place off the machine.

WARRANTY on this machine is on the warranty certificate which you should have received from your dealer when making your purchase. This warranty provides you the assurance that John Deere will back its products where defects appear within the warranty period. In some circumstances, John Deere also provides field improvements, often without charge to the customer, even if the product is out of warranty.

Warranty and field improvements are a part of John Deere's product support program for customers who operate and maintain their equipment as described in this manual. Should the equipment be abused, or modified to change its performance beyond the original factory specifications, the warranty will become void and field improvements may be denied. Setting fuel delivery above specifications or otherwise overpowering machines will result in such action.

THE TIRE MANUFACTURER'S warranty supplied with your machine may not apply outside the U.S.



M41121
-UN-06SEP88

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All information, illustrations and specifications in this 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.

OMM79635 F9-19-05DEC89

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A John Deere ILLUSTRATION™ Manual

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Safety

RECOGNIZE SAFETY INFORMATION

This is the safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.



O53,ALERT -19-16JUN87

T81389 -UN-07DEC88

UNDERSTAND SIGNAL WORDS

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards.

Safety signs with signal word DANGER or WARNING are typically near specific hazards.

General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.



O53,SIGNAL -19-07OCT85

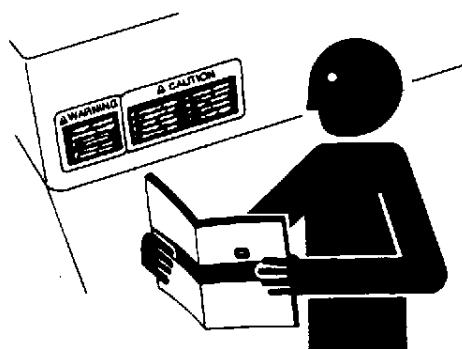
TS187 -19-30SEP88

FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.



O53,READ -19-23APR87

TS201 -UN-23AUG88



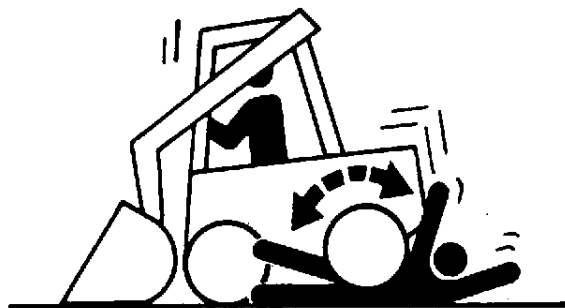
PROTECT CHILDREN

Keep children and others away when you operate machine.

Before you back up or turn, look behind and around skid steer loader for children.

Do not let children operate loader.

Do not let children ride on loader or any attachment.



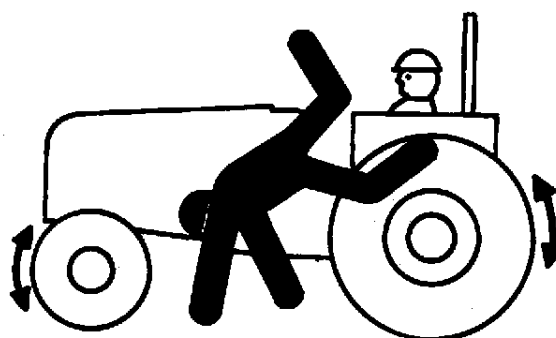
MX,SACT,D -19-10APR89

M61936 -UN-23FEB89

KEEP RIDERS OFF MACHINE

Only allow the operator on the machine. Keep riders off.

Riders on machine are subject to injury such as being struck by foreign objects and being thrown off of the machine. Riders also obstruct the operator's view resulting in the machine being operated in an unsafe manner.



O53,RIDER -19-03MAY88

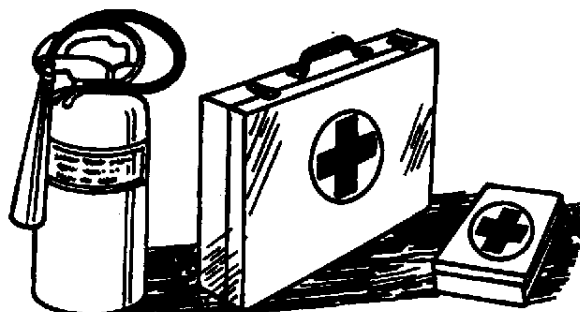
TS290 -UN-23AUG88

PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



O53,FIRE2 -19-03MAR88

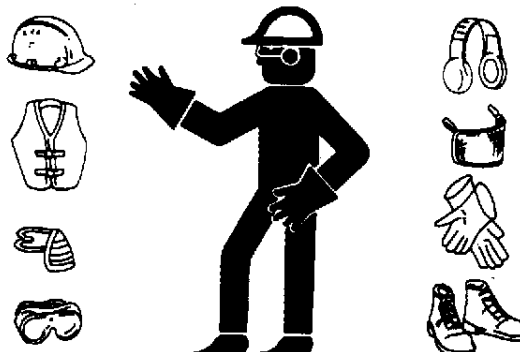
TS291 -UN-23AUG88

WEAR PROTECTIVE CLOTHING

Wear close fitting clothing and safety equipment appropriate to the job.

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

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



O53,WEAR -19-23APR87

TS206 -UN-23AUG88



AVOID HAZARDS

Do not work under overhangs, electric wires, or where there is danger of a slide.

Operate loader carefully. Tipping or rolling may cause serious injury.

Avoid steep hillside operation.

Stay alert for holes, rocks and roots in the terrain and other hidden hazards that may cause loader to tip over. Keep away from drop-offs.

Drive slowly on slopes to prevent tipping or loss of control. Be especially cautious when you change direction on slopes.

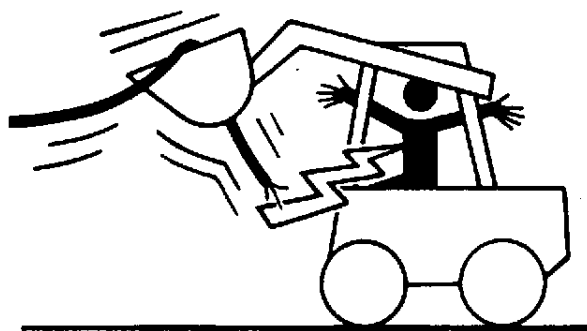
Do not stop or start suddenly when you travel uphill or downhill.

If engine stops during operation, lock park brake immediately to keep loader from rolling. Then start engine.

If engine stops as you travel uphill:

- Lock park brake.
- Start engine.
- Back down slowly.

Do not reach out of cab. Lift arms are raised during operation.



M62140 -UN-23FEB89

MX,SACT,H -19-10APR89



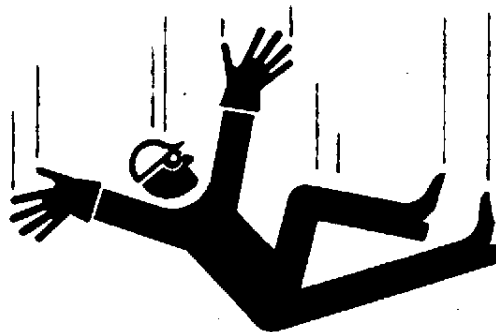
USE HANDHOLDS AND STEPS

Maintain a three-point contact with steps and handrails and face machine when getting on or off machine. Do not use controls as handholds.

Do not jump on or off machine or dismount a moving machine.

Be careful of slippery platforms, steps, and handrails.

Lower bucket to ground, apply brake, and stop engine before you dismount.



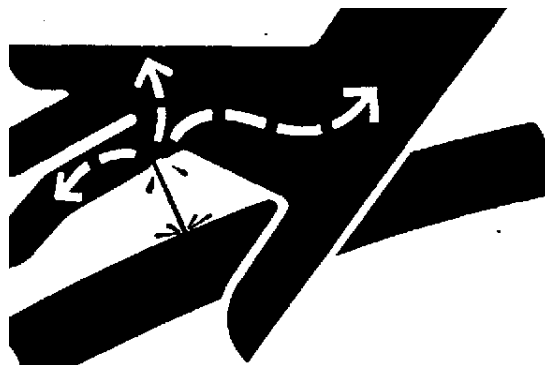
M61935 -UN-23FEB89

MX,SACT,I -19-10APR89

AVOID HIGH-PRESSURE FLUIDS

Escaping fluid under pressure can penetrate the skin causing serious injury. Relieve pressure before unhooking 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 to search for leaks.

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.



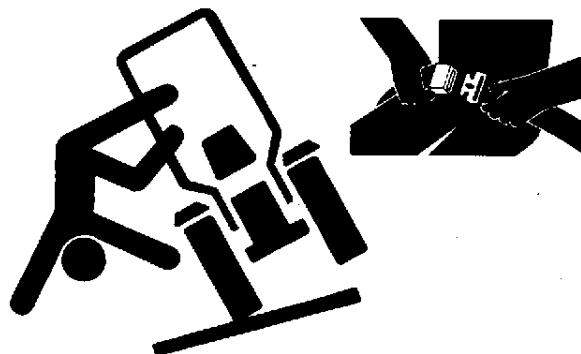
X9811 -UN-23AUG88

O53,FLUID -19-18SEP87

USE SEAT BELT PROPERLY

Use a seat belt when you operate with a roll-over protective structure (ROPS) to minimize chance of injury from an accident such as an overturn.

Do not use a seat belt if operating without a ROPS.



TS205 -UN-23AUG88

O53,ROPS1 -19-23APR87



HANDLE FUEL SAFELY—AVOID FIRES

Handle fuel with care: it is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks.

Always stop engine before refueling machine. Fill fuel tank outdoors.

Prevent fires by keeping machine clean of accumulated trash, grease, and debris. Always clean up spilled fuel.



O53,FIRE1 -19-23APR87

TS202 -UN-23AUG88

REMEMBER THE OTHER GUY

Do not use a bucket or attachment for a work platform or personnel carrier.

Do not move loads over the heads of other persons.



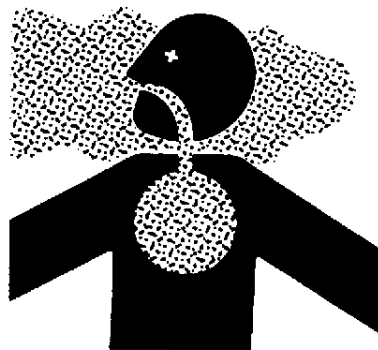
MX,SACT,M -19-10APR89

IM61937 -UN-23FEB89

WORK IN VENTILATED AREA

Engine exhaust fumes can cause sickness or death. If it is necessary to run an engine in an enclosed area, remove the exhaust fumes from the area with an exhaust pipe extension.

If you do not have an exhaust pipe extension, open the doors and get outside air into the area.



O53,AIR -19-05JAN88

TS220 -UN-23AUG88

PREVENT MACHINE RUNAWAY

Avoid possible injury or death from machine runaway.

Do not start engine by shorting across starter terminals. Machine will start in gear if normal circuitry is bypassed.

Do not start engine while standing on ground. Start engine only from operator's seat, with transmission in neutral or park.



MX,SACT,O -19-10APR89

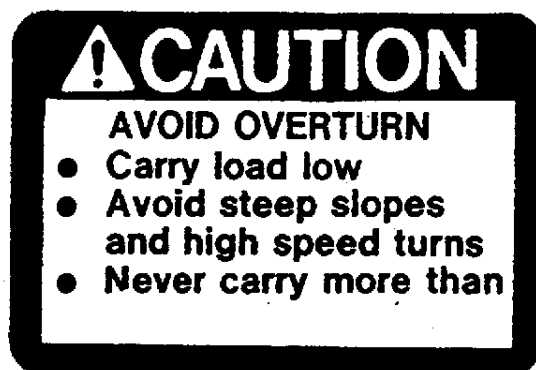
M62242 -UN-02MAR89



READ SAFETY SIGNS

Read and follow all safety signs on your machine. Keep safety signs in good condition. Replace missing or damaged signs.

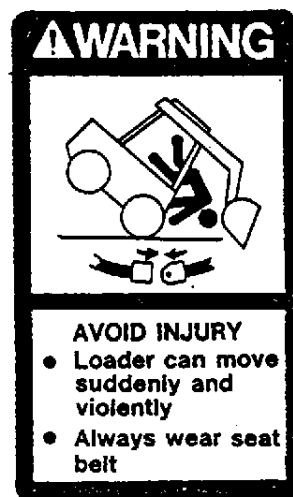
NOTE: Standard machine operating load is 1500 lbs (680 kg). Construction package equipped machine operating load is 1700 lbs (771 kg). See SPECIFICATIONS Section.



Inside Left of Cab Frame

MX,SACT,P -19-10APR89

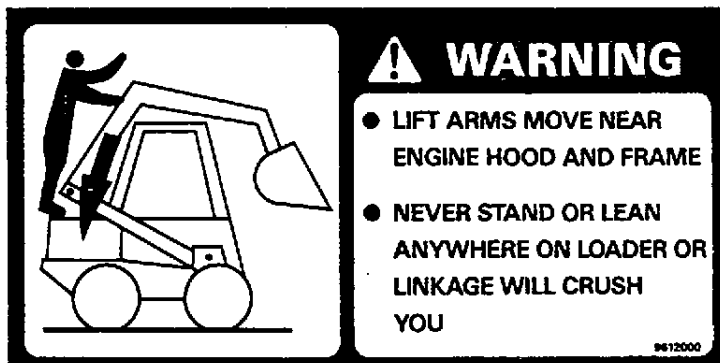
M41122 -19-10JAN89



Inside Right of Cab Frame

MX,SACT,Q -19-10APR89

M62456 -19-20APR89

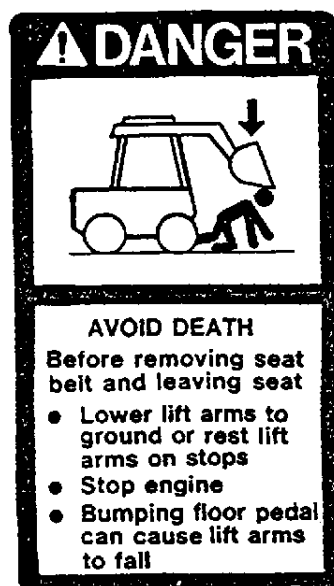


-19-20APR89

M62458

On Engine Hood

MX,SACT,R -19-10APR89

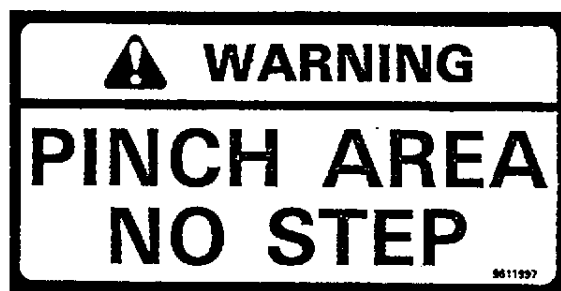


Inside Left of Cab Frame

-19-20APR89

M62457

MX,SACT,S -19-10APR89



On Bucket Lift Cylinder

MX,SACT,T -19-10APR89

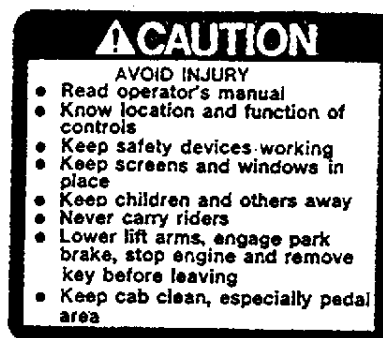
M62459 -19-20APR89



On Radiator Support

MX,SACT,U -19-10APR89

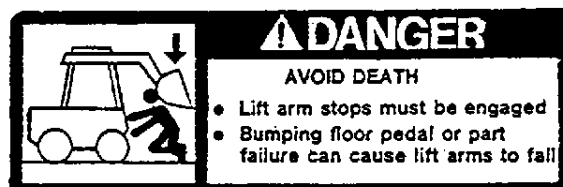
M39470 -19-16DEC88



Inside Left of Cab Frame

MX,SACT,V -19-10APR89

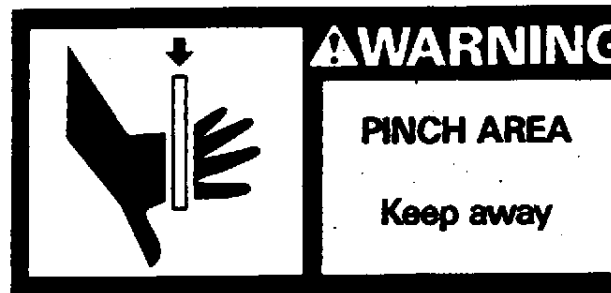
M62460 -19-20APR89



Below Step on Frame

MX,SACT,W -19-10APR89

M62461 -19-20APR89



Boom Lift Cylinders & Lift Arm Linkages

MX,SACT,X -19-10APR89

M39292 -19-18DEC88



Below Indicator Light Panel

MX,SACT,Y -19-10APR89

M62455 -19-12APR89



On Air Cleaner

MX,SACT,Z -19-10APR89

M41123 -19-10JAN89

Controls

HAND CONTROLS

- A—Seat Control Lever
- B—Right Drive Control Lever
- C—Retractable Seat Belt
- D—Left Drive Control Lever
- E—Throttle Lever
- F—Lift Arm Stop Lever

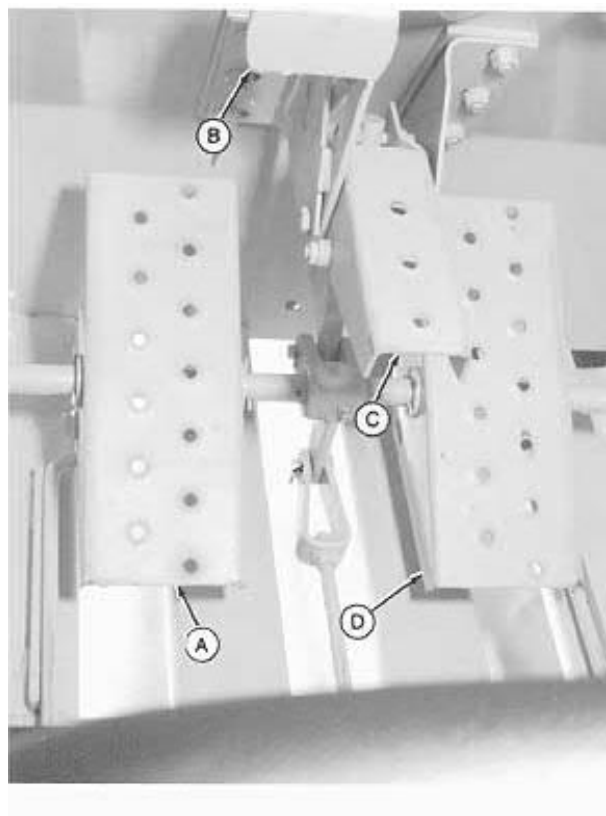


MX,CTCT,A -19-10APR89

M62462 -UN-20APR89

FOOT CONTROLS

- A—Lift Arm Control Pedal
- B—Park Brake Release Pedal
- C—Park Brake Lock Pedal
- D—Bucket Control Pedal

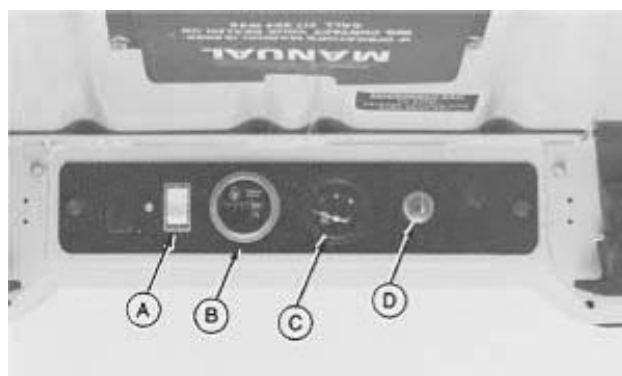


MX,CTCT,B -19-07APR89

M38911 -UN-29AUG88

INSTRUMENT PANEL

- A—Light Switch
- B—Hour Meter
- C—Fuel Gauge
- D—Key Switch
- E—Cold Start Aid Light (not shown, next to Key Switch)

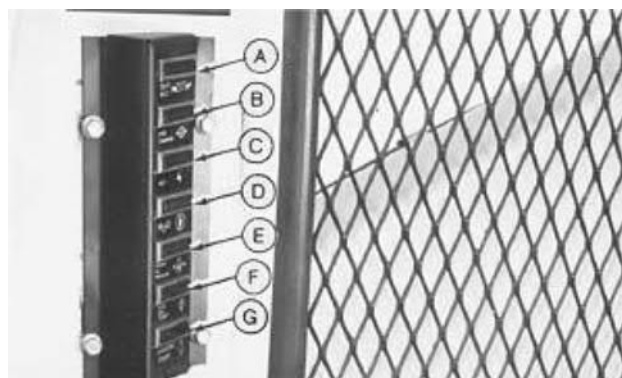


MX,CTCT,C -19-07APR89

M38812 -UN-29AUG88

INDICATOR LIGHTS

- A—Seat Belt
- B—Hydrostatic Charge Pressure
- C—Alternator
- D—Water-in-Fuel
- E—Engine Oil Pressure
- F—Hydrostatic Oil Temperature
- G—Engine Coolant Temperature

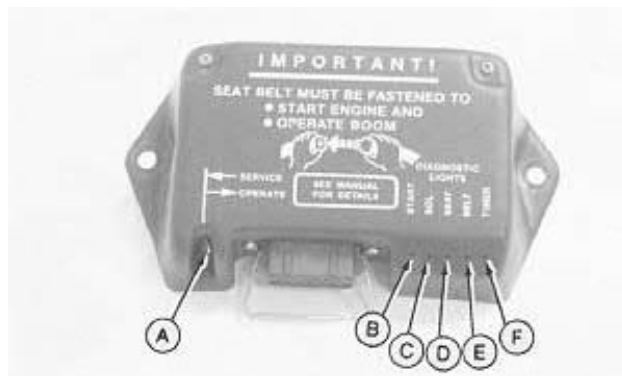


MX,CTCT,D -19-07APR89

M62463 -UN-20APR89

CONTROL MODULE

- A—Service/Operate Switch
- B—Start Light
- C—Solenoid Light
- D—Seat Light
- E—Seat Belt Light
- F—Timer Light



MX,CTCT,E -19-10APR89

M62149 -UN-27FEB89

Operating the Engine

STARTING ENGINE

CAUTION: Start engine **ONLY** outdoors or in a well-ventilated place. Exhaust fumes are dangerous.

Be sure no one is near loader when you start engine.

To interlock the seat and seat belt into the engine start circuit and boom and bucket hydraulic circuits, you must:

1. Sit on operator's seat. Seat belt light must come on.
2. Fasten seat belt. Seat belt light must go off.

NOTE: You must be in the operator's seat with the seat belt fastened before the engine will start and boom and bucket hydraulics will operate.

3. Start engine.

NOTE: If you leave the operator's seat for more than three seconds, you must sit in the operator's seat and fasten the seat belt again to unlock the boom and bucket hydraulic circuits.

4. Put drive controls in neutral position.

MX,OECT,A -19-10APR89

5. Push down park brake lock pedal (A).



MX,OECT,B -19-07APR89

M38916 -UN-29AUG88

Operating the Engine

6. Put throttle lever in half-speed position.



MX,OECT,C -19-07APR89

M39392 -UN-06SEP88

7. Turn key to RUN position.

8. LOOK: Cold start aid light should go ON unless engine is warm or air temperature is above 32°F (0°C). When light goes out, engine is ready to start.



MX,OECT,D -19-07APR89

M39300 -UN-06SEP88

9. LOOK: Three indicator lights should go ON:

B—Hydrostatic charge pressure

C—Alternator

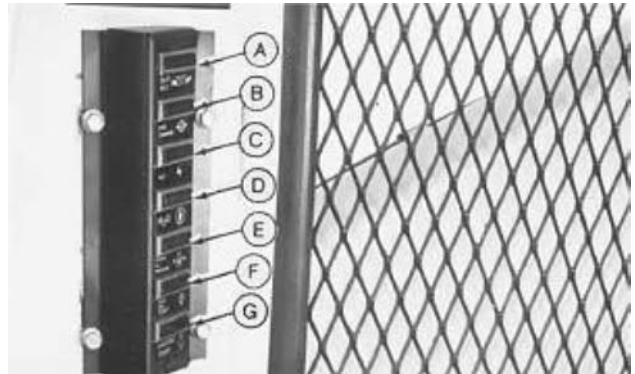
D—Water-in-fuel light should not go on unless fuel filter/water separator needs to be drained.

10. LOOK: Three indicator lights do not normally go ON:

E—Engine oil pressure

F—Hydrostatic oil temperature light should go on when oil temperature is above 220°F (104°C).

G—Engine coolant temperature light should go on when coolant temperature is above 220°F (104°C).



MX,OECT,E -19-10APR89

M62463 -UN-20APR89

IMPORTANT: Do not operate starter for more than 30 seconds at a time or you may damage starter. Wait 2 minutes before you try again.

11. Turn key to START position.
12. After engine starts, release key to RUN position.



MX,OECT,F -19-07APR89

M39301 -UN-06SEP88

AVOID ACID BURNS

CAUTION: Sulfuric acid in battery electrolyte is poisonous. It is strong enough to burn skin, eat holes in clothing, and cause blindness if splashed into eyes.

Avoid the hazard by:

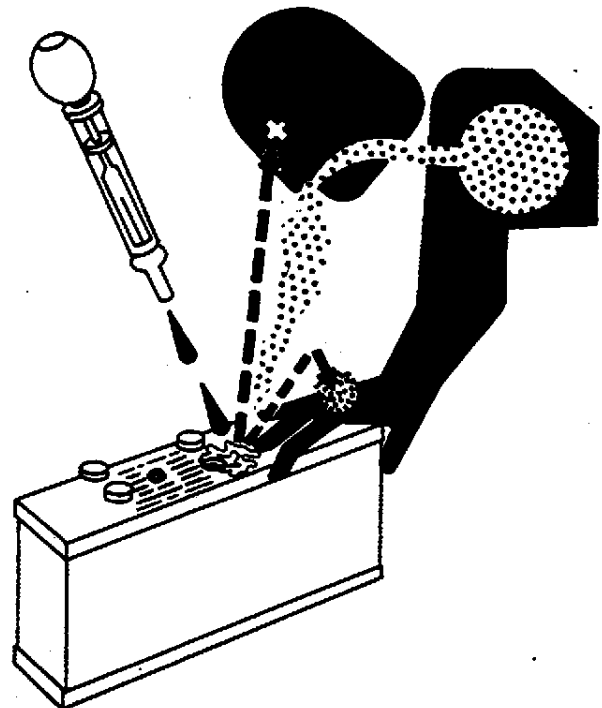
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

If you spill acid on yourself:

1. Flush your skin with water.
2. Apply baking soda or lime to help neutralize the acid.
3. Flush your eyes with water for 10—15 minutes. Get medical attention immediately.

If acid is swallowed:

1. Drink large amounts of water or milk.
2. Then drink milk of magnesia, beaten eggs, or vegetable oil.
3. Get medical attention immediately.



TS203 -UN-23AUG88

053,ACID -19-18APR85



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PREVENT BATTERY EXPLOSIONS

CAUTION: Battery gas can explode. Keep sparks and flames away from batteries. Use a flashlight to check battery electrolyte level.

Never check battery charge by placing a metal object across the posts. Use a voltmeter or hydrometer.

Always remove grounded (—) battery clamp first and replace it last.

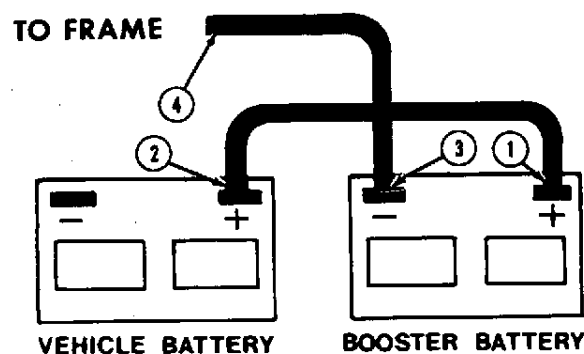


053,EXPLO -19-18APR85

TS204 -UN-23AUG68

USING BOOSTER BATTERY

Connect cables in order shown. Connect booster negative (—) cable to starting vehicle frame away from battery.



MX,OECT,H -19-07APR89

M40672 -19-14MAR89

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