

**350C, 350D
Crawler Bulldozer
350C, 355D
Crawler Loader**



JOHN DEERE

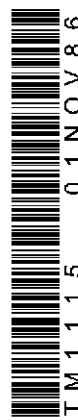
TECHNICAL MANUAL

350C, 350D Crawler Bulldozer 350C,
355D Crawler Loader

TM1115 (01NOV86) English

**John Deere Dubuque Works
TM1115 (01NOV86)**

LITHO IN U.S.A.
ENGLISH



350C AND 350D CRAWLER BULLDOZERS 350C AND 355D CRAWLER LOADERS TECHNICAL MANUAL TM-1115 (NOV-86)

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INTRODUCTION

This manual is part of a total service support program.

FOS Manuals—reference

Technical Manuals—machine service

Component Manuals—component service

Fundamentals of Service (FOS) Manuals cover basic theory of operation, fundamentals of troubleshooting, general maintenance, and basic types of failures and their causes. FOS Manuals are for training new personnel and for reference by experienced technicians.

Technical Manuals are concise service guides for specific machines. Technical manuals are on-the-job guides containing only the vital information needed by an experienced service technician.

Component Technical Manuals are concise service guides for specific components. Component technical manuals are written as stand alone manuals covering multiple machine applications.



AB6:RW5559 053:INTRO2 030785

FEATURES OF THIS TECHNICAL MANUAL

John Deere ILLUSTRATION format emphasizing illustrations and concise instructions in easy-to-use modules.

Emphasis on diagnosis, analysis, and testing so you can understand the problem and correct it.

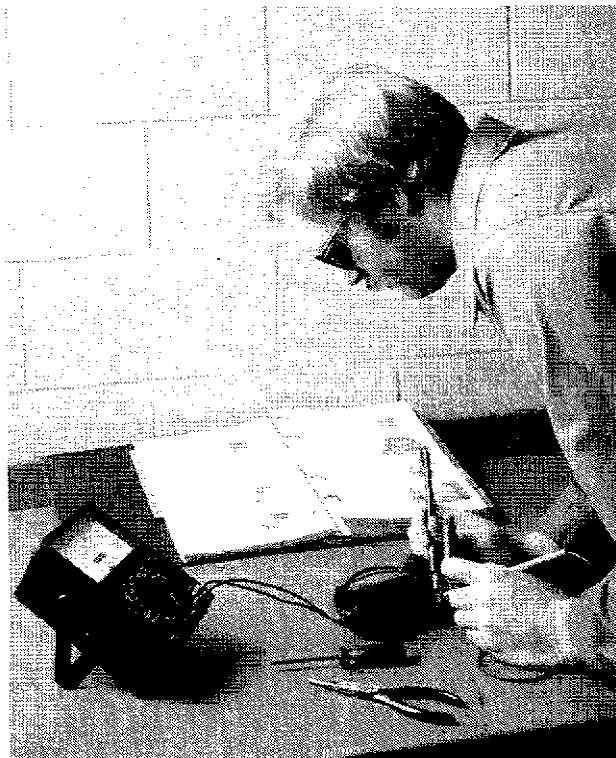
Diagnostic information presented with the most logical and easiest to isolate problems first to help you identify the majority of routine failures quickly.

Step-by-step instructions for teardown and assembly.

Summary listing at the beginning of each group of all applicable specifications, wear tolerances, torque values, essential tools, and materials needed to do the job.

An emphasis throughout on safety—so you do the job right without getting hurt.

This technical manual was planned and written for you—an experienced service technician. Keep it in a permanent binder in the shop where it is handy. Refer to it when you need to know correct service procedures or specifications.



AB6:RW5560 053:INTRO3 071085

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.



AB6;T81389 053;ALERT 071085

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.



AB6;T5187 053;SIGNAL 071085

FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages in this manual and on your machine safety signs. Follow recommended precautions and safe operating practices.

Keep safety signs in good condition. Replace missing or damaged safety signs.



AB6;TS188 053;SIGNS 071085



On right front ROPS post near the top, facing the operator.

018;T60018E T82;05 M1 120186




1. Tractor can tip forward when lowering weights exceeding 6,200 lbs. from elevated positions. To prevent forward tipping when lowering heavy loads, counterbalance tractor with at least 500 lbs. rear weight or rear mounted equipment.

2. Never move pipe or other loads above workmen.

S

355D—On support casting at right of instrument panel.

018;T6192AJ T82;05 M2 191285



1. Do not operate except from operator's seat.

2. Lower working units to the ground before leaving operator's seat.

3. Never leave tractor unattended with engine running.

4. Travel slowly when moving over rough terrain.

5. Carry working units as low as possible.

S

350D—On slope of battery box cover, between latch and lock slot.

355D—On support casting at right of instrument panel.

018;T6192AK T82;05 M3 191285

 **WARNING**

AVOID POSSIBLE INJURY OR DEATH FROM A MACHINE RUNAWAY.

1. Do not start engine by shorting across starter terminals. Machine will start in gear and move if normal starting circuitry is bypassed.
2. Start engine only from operator's seat with transmission in neutral or park. **NEVER** start engine while standing on ground. **S**

350D—On right side of cowl support next to left edge of engine side shield.

355D—In right side of engine compartment on front of loader frame plate.

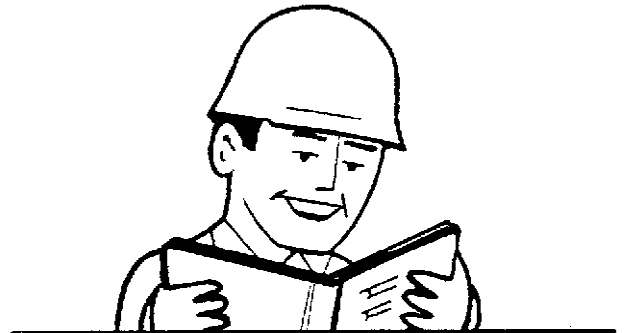
018;T6084AZ T82;05 M4 140186

LEARN MACHINE SAFETY

Carefully read this manual. Learn how to operate the machine and how to use the controls properly.

Do not let anyone operate this machine without proper instruction.

Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.



AB6;M35220 053;READ1 080785

USE HANDHOLDS AND STEPS

When you get on and off the machine, use handholds and steps.



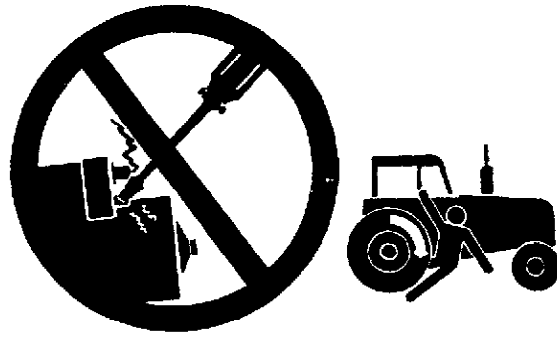
018;T6192AH T82;BNSA CM 010686

PREVENT MACHINE RUNAWAY

Avoid possible injury or death from machinery runaway.

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

Never start engine while standing on ground. Start engine only from operator's seat. Move shift lever to neutral. Move direction selector lever to neutral and engage neutral lock. Depress brake pedal and engage lock.



AB6;TS177 T82;05 M5 120186

STAY CLEAR OF PTO

Stop the engine and be sure the PTO drive line has stopped before:

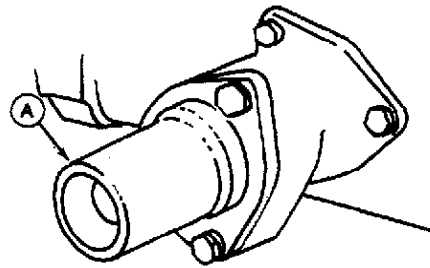
- Connecting or disconnecting implement drive line.
- Making adjustments on the implement.
- Cleaning out PTO driven equipment.

Remove PTO shift guard ONLY to repair PTO or to connect equipment to power shaft.

Remove the master shield only when necessary. Be sure shield is in place any time the PTO shaft guard is removed.

Operate PTO at recommended speed.

Avoid loose-fitting or dangling clothing.



018;T6244AH T82;05 M7 201285

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.



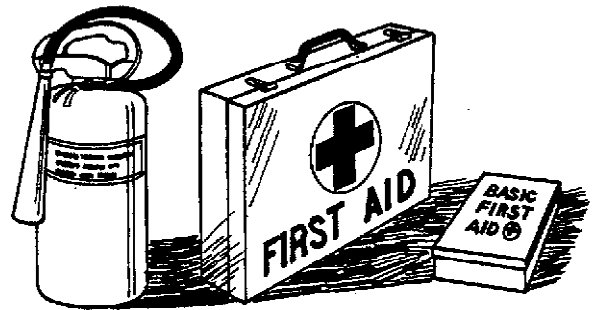
AB6;TS173 053;RIDER 261184

PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

Keep a first aid kit and fire extinguishers handy.

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



AB6;TS186 053;FIRE2 080785

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.



AB6;TS185 053;FIRE1 240795

HANDLE STARTING FLUID SAFELY

Starting fluid is highly flammable.

Keep all sparks and flame away when using it. To prevent accidental discharge when storing the pressurized can, keep the cap on the container, and store in a cool, protected location.

Do not incinerate or puncture a starting fluid container.



AB6;T6089A U 053;FIRE3 080785

CLEAN TRASH FROM MACHINE

Wait until engine has cooled before removing trash from areas such as engine, radiator, batteries, hydraulic lines, fuel tank, and operator's station.

Temperature in engine compartment may go up immediately after engine is stopped. **BE ON GUARD FOR FIRES DURING THIS PERIOD.**

Open side shields to cool the engine faster.



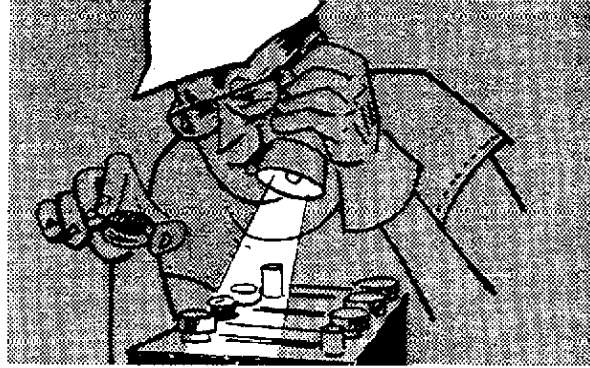
018;T86512 T82;FLSA D 010485

PREVENT BATTERY EXPLOSIONS

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.



AB6;TS181 053;EXPL0 180485

AVOID ACID BURNS

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:

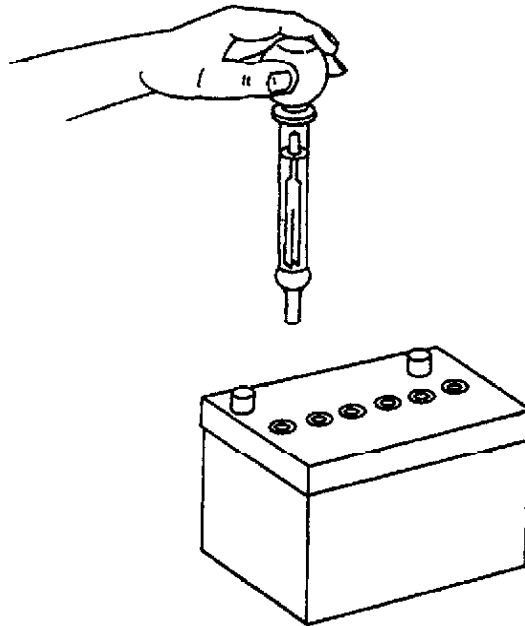
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.

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.

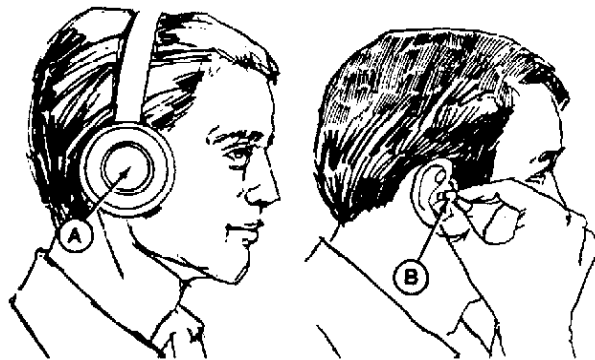


AB6;TS182 053;ACID 180485

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.



AB6;X7662 053;NOISE 270886