

655 and 665 Central Metering Seeders 770, 775, 780 and 785 Air Drill



JOHN DEERE

TECHNICAL MANUAL

655 and 665 Central Metering Seeders 770,
775, 780 and 785 Air Drill

TM1306 (01NOV85) English

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LITHO IN U.S.A. (REVISED)
ENGLISH



655 AND 665 CENTRAL METERING SEEDERS AND 770, 775, 780, 785 AIR DRILLS TECHNICAL MANUAL TM-1306 (NOV-85)

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A JOHN DEERE ILLUSTRATION

INTRODUCTION

This technical manual is part of a twin concept of service.

FOS - for reference

Technical Manuals - for actual service

The two kinds of manuals work as a team to give you both the general background and technical details of shop service.

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

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



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FEATURES OF THIS TECHNICAL MANUAL

- John Deere ILLUSTRATION format emphasizing more detailed pictures and fewer words.
- Instructions and illustrations grouped together in easy-to-use modules.
- Removal and Installation groups preceding some repair groups. These groups show how to remove and install components from the machine rather than from major components. They also show how to acquire access to major components of a machine.

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

Using the technical manual as a guide will reduce error and costly delay. It will also assure you the best in finished service work.

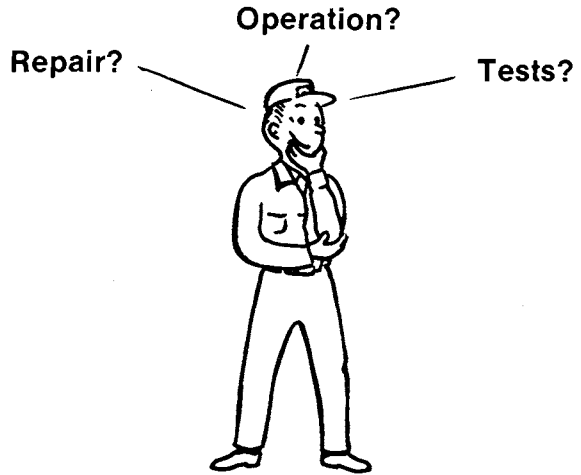


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THREE-STEP PROCEDURE

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

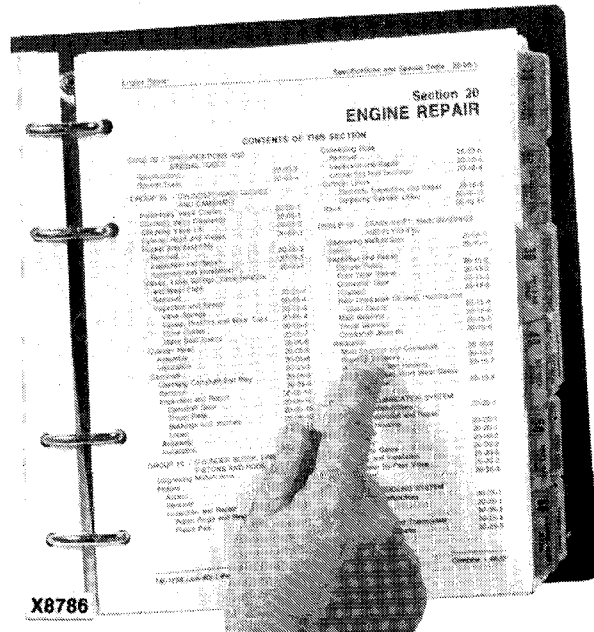
1. Determine the type of information you need. Is it repair, operation, or tests?
2. Go to the appropriate section tab.



X8788 TYPE OF INFORMATION?

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



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Section 10 GENERAL

CONTENTS

Page

GROUP 05 - SAFETY

GROUP 10 - MACHINE SPECIFICATIONS

Specifications

655 Central Metering Seeder	10-10-01
665 Central Metering Seeder	10-10-02
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Fuels	10-15-01
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General Purpose Grease	10-15-03
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8A5; N04;;1000 A 310184

SAFETY MESSAGES



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

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IMPORTANT

The **IMPORTANT** message identifies potential problems which may cause consequential damage to machine. Following recommended procedure will instruct technician how to avoid problem.

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NOTES

The word *NOTE* is followed by a statement that identifies a qualification or exception to a previous statement. A "NOTE" may also identify nice-to-know information pertinent to, but not directly related to previous statement.

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OBSERVE SAFETY RULES

Avoid loose clothing that can catch on some part of the machine.

Wear safety glasses while on the job.

Avoid working on equipment with engine running. If it is necessary to make checks with engine running, ALWAYS USE TWO PEOPLE -with the operator, at the controls, able to see person doing the checking. KEEP HANDS AWAY FROM MOVING PARTS.

DO NOT enter tank unless another person is present.

Always shut off tractor engine and shift to PARK when leaving tractor. Remove key when leaving tractor unattended.

Always have seeder stationary and on level ground when raising or lowering outriggers.

DO NOT raise or lower outriggers when moving.

When outriggers are raised and lock-up pins are not in transport position, never allow anyone where a falling outrigger could strike them.

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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.

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.

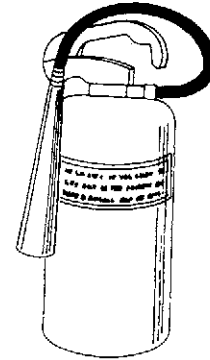
Don't smoke near battery.

Never check fuel, battery electrolyte, or coolant levels with an open flame.

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

Never use an open flame as light anywhere on or around the equipment.

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



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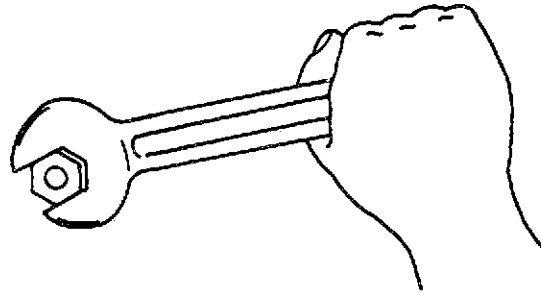
PRACTICE SAFE MAINTENANCE

Always use a safety support when working on, under, or around the chisel plow or tank.

Shut off tractor engine and remove key when working on chisel plow or tank.

Use proper safeguards when necessary to enter tank which has contained treated seed.

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



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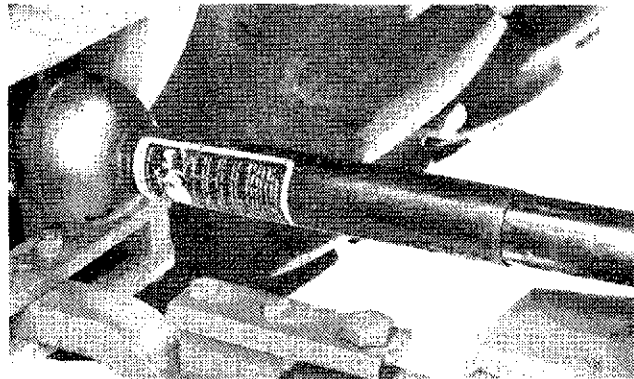
STAY CLEAR OF PTO

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

- Connecting or disconnecting a PTO shaft.
- Making any adjustment to PTO drive train or hitch
- Cleaning out PTO driven equipment

PTO master shield should be in place at all times except when connecting a PTO drive line or for special applications as directed in the operator's manual.

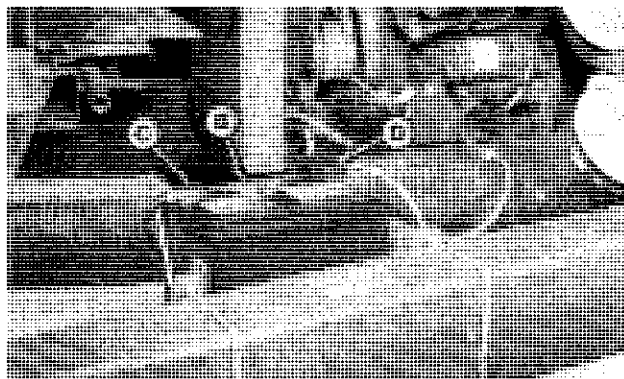
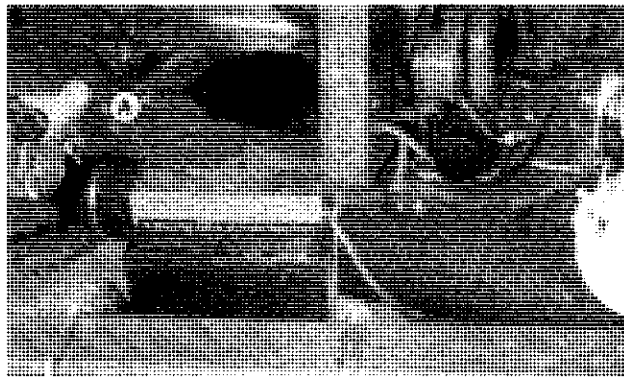
The PTO shaft guard should be in place when the PTO is not being used.



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REMOVE AND INSTALL ENGINE**REMOVE ENGINE**

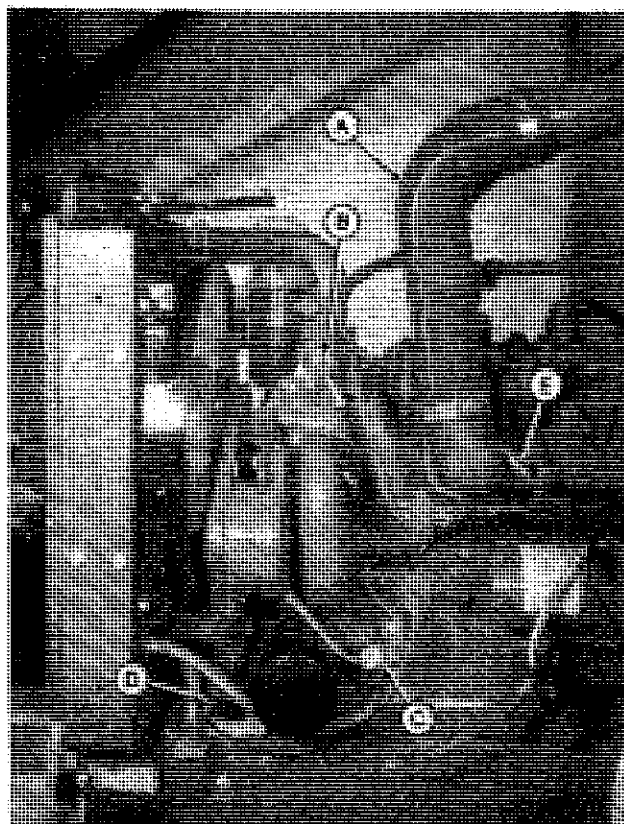
1. Remove battery cover (A) or hold down angle (B).
2. Disconnect negative ground cable (C).
3. Disconnect positive cable (D).
4. Remove battery from machine.



- A—Battery Cover
 B—Hold Down Angle
 C—Negative Ground Cable
 D—Positive Cable

BA5;N82168 F4, NR4010 G1 N04;;2005 A 010284

5. Disconnect air intake hose (A) from intake manifold.
6. Disconnect water temperature sender wire (B).
7. Disconnect alternator at coupler (C).
8. Disconnect oil pressure sender wire (D).
9. Disconnect Thermo-Start wire (E).

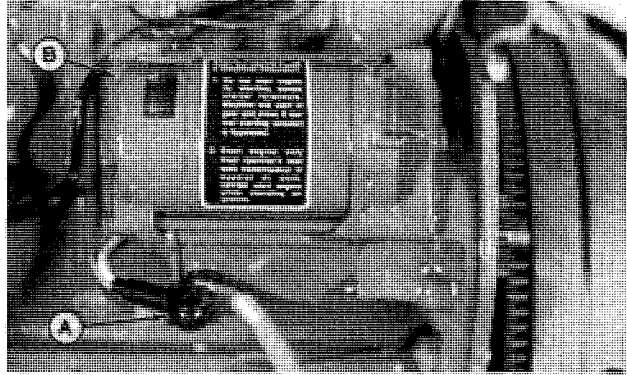


- A—Air Intake Hose
 B—Water Temperature Wire
 C—Alternator Coupler
 D—Oil Pressure Sender Wire
 E—Thermo-Start Wire

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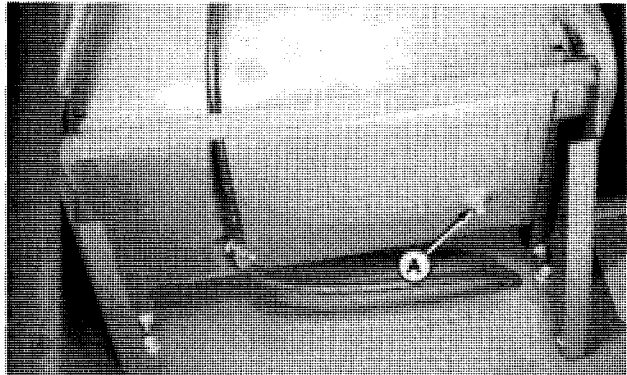
Remove and Install Engine

10. Disconnect wires and positive cable (A) from starter (B).



8A4;N85126 B1 N04;;2005 C 120885

11. Remove fuel tank drain plug (A) and drain tank.

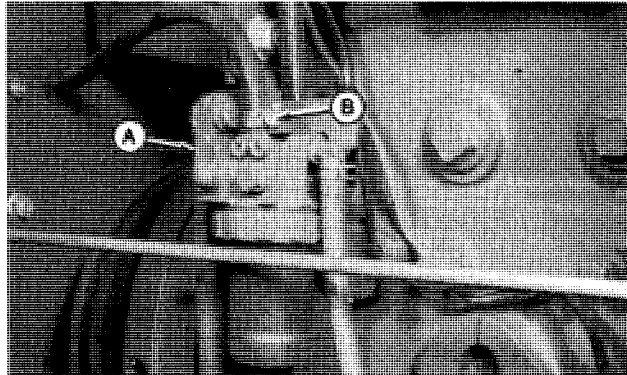


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12. Move fuel shut-off lever (A) up to closed position.

13. Unclamp fuel line (B) from fuel filter.

14. Remove fuel line and tape up out of the way.



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