

SEEDSTAR™ SEED MONITOR

**John Deere Harvester Works
OMA59082 Issue A7**

LITHO IN U.S.A.
ENGLISH

Introduction

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.

RIGHT-HAND AND LEFT-HAND sides are determined by facing in the direction the implement will travel when going forward.



THIS MACHINE is of metric design. Measurements in this manual are metric with the customary U.S. measurement following. Use only metric hardware and tools as specified.

WRITE PRODUCT IDENTIFICATION NUMBERS in the space provided 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 is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual. The warranty is explained on the warranty certificate which you should have received from your dealer.

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. 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.

TO THE DEALER

Predelivery service is the service John Deere recommends that a dealer perform on a machine before delivering it to a customer. This includes assembly, adjustment, and test. The service assures that the monitor will be delivered to the customer in good condition and that the customer will be fully satisfied with its performance right from the start.

The illustrations and instructions on the following pages give the proper sequences for John Deere SeedStar™ Monitors.

References to right-hand and left-hand sides in these instructions are determined by standing at the rear of the planter and facing in the direction of travel.

On the next page is a Predelivery Check List. This list is a reminder of the points to inspect and test on this monitor and to be sure it has been properly assembled and is in good working condition before delivering it to your customer.

The Delivery Check List is a reminder of items that should be covered when the monitor is delivered to your customer.

The operator's manual, which contains important operating, lubricating and service information, is for your customer. Acquaint the customer with its contents.

After the monitor has been assembled, inspect it thoroughly to be sure it is functioning properly before delivering it to the customer. The following check list is a reminder of points to check. Check off each item as it is found satisfactory or after proper adjustment has been made.

The John Deere Delivery Receipt, when properly filled out and signed by the dealer and customer, verifies that the predelivery and delivery services were satisfactorily performed. When delivering this monitor, give the customer a copy of the delivery receipt and the operator's manual. Explain their purpose.

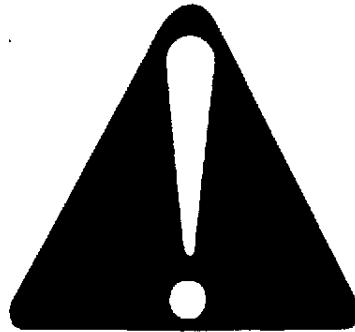
Be certain to retain your copy of the packing list for shipping bundle information.

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.



DX,ALERT -19-03MAR93

T81389 -UN-07DEC68

UNDERSTAND SIGNAL WORDS

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

DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.



DX,SIGNAL -19-03MAR93

TS187 -19-30SEP88

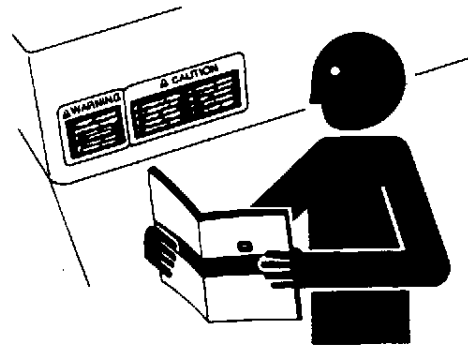
FOLLOW SAFETY INSTRUCTIONS

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. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from your John Deere dealer.

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.

If you do not understand any part of this manual and need assistance, contact your John Deere dealer.



DX,READ -19-03MAR93

TS201 -UN-23AUG88

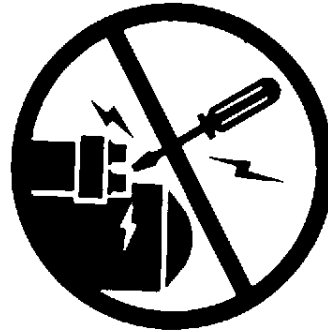


PREVENT MACHINE RUNAWAY

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, with transmission in neutral or park.



DX,BYPAS1 -19-03MAR93

TS177 -UN-11JAN89

Do not connect auxiliary equipment to starter terminals. Doing so can cause tractor to start in gear and move.

Connect directly to tractor battery only.

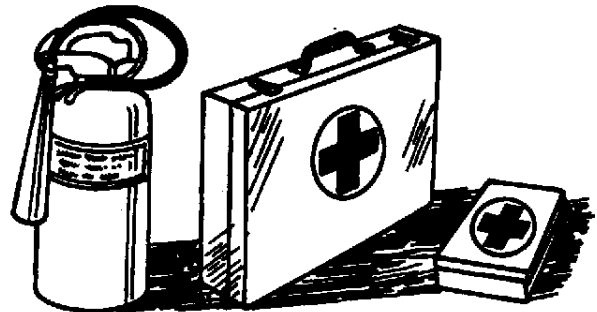
MON,S05,SA,1 -19-29MAY90

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.



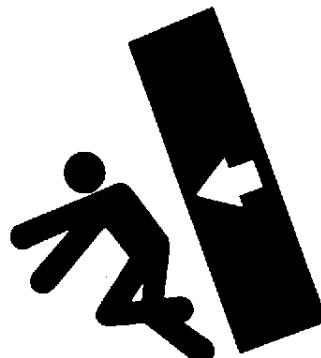
DX,FIRE2 -19-03MAR93

TS291 -UN-23AUG88

STORE ATTACHMENTS SAFELY

Stored attachments such as dual wheels, cage wheels, and loaders can fall and cause serious injury or death.

Securely store attachments and implements to prevent falling. Keep playing children and bystanders away from storage area.



DX,STORE -19-03MAR93

TS219 -UN-23AUG88



ELECTRICAL CONNECTIONS

Keep all sparks and flames away from battery, as gas given off by electrolyte is explosive. To avoid sparks, connect ground cable last and disconnect it first.

MON,S05,SA,2 -19-29MAY90

DO NOT MODIFY THE MONITOR OR RADAR SENSOR

Doing so could nullify the warranty. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

MON,S05,SA,3 -19-29MAY90

Safety Signs

SAFETY SIGNS



Radar Sensor

A29117

MON,S10,SS,1 -19-29MAY90

A29117 -19-30JAN89

Attaching and Detaching

ATTACHING AND DETACHING MONITOR

CAUTION: 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.

Never start engine while standing on ground. Start engine only from operator's seat, with transmission in neutral or park.

Do not connect auxiliary equipment to starter terminals. Doing so can cause tractor to start in gear and move. Connect directly to tractor battery or other ways as instructed.

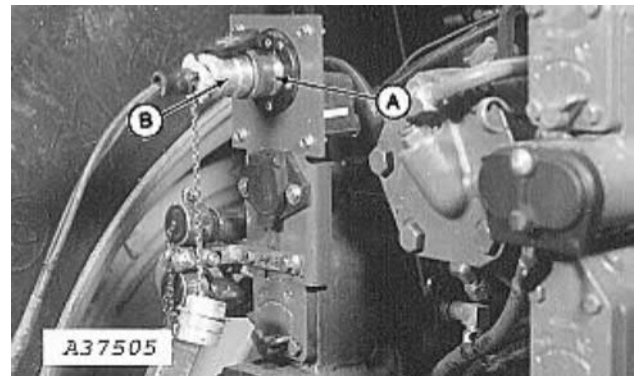
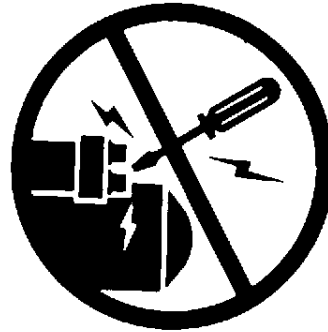
Stop tractor engine and be certain ignition switch is in off position.

Remove dust covers.

NOTE: Carefully install 7-pin connector first.

Line up grooves and tabs between connectors. Carefully push planter monitor harness connector (B) onto monitor connector (A) and turn collar clockwise.

To remove monitor harness (B), push in, turn collar counterclockwise and pull straight back.



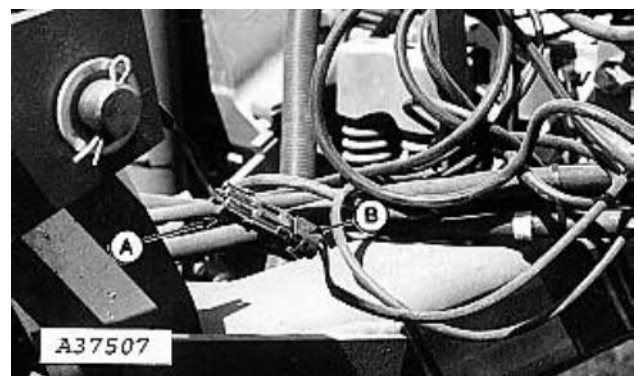
30—60 Series Tractor Illustrated

59082OM,20A -19-27JAN97

(60 SEED CART)

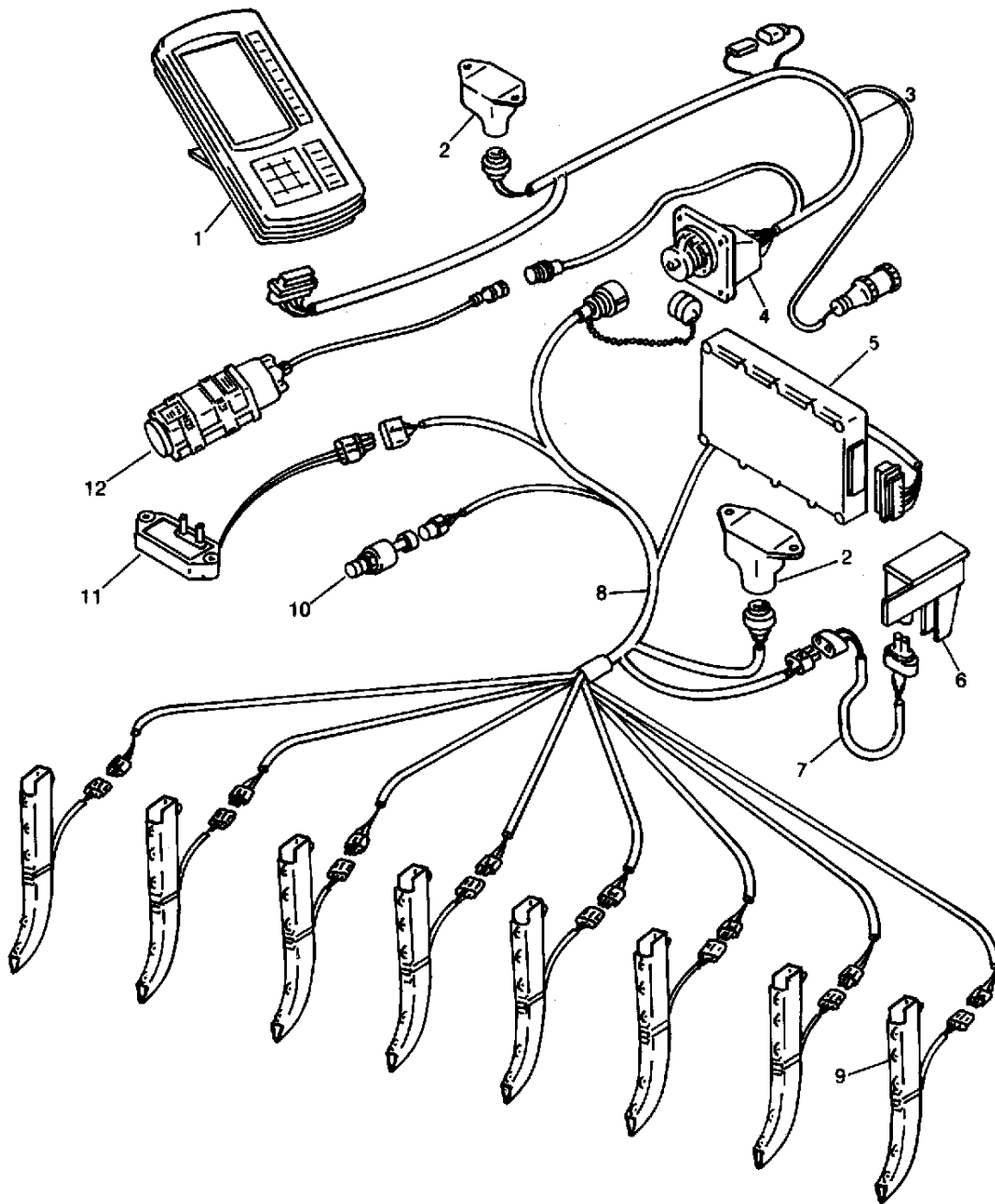
Line up hopper level sensor connector (A) with monitor harness lead connector (B). Carefully push hopper level connector into monitor harness lead until locked in place.

To remove hopper level connector, release lock and pull connectors apart.



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SEED MONITOR LOCATION DRAWING



A40720 -UN-22JAN97

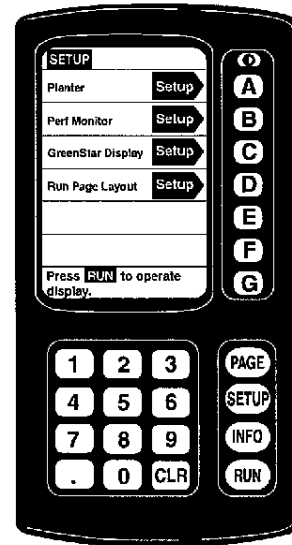
- | | | | |
|----------------------------------|------------------------|------------------|---------------------------|
| 1—Monitor Console | 4—Connector, Implement | 7—Adapter | 10—Sensor, Fertilizer |
| 2—Sensor, Terminator
(2 used) | 5—Sensor, Processor | 8—Wiring Harness | 11—Sensor, Vacuum |
| 3—Connector, Wiring
Harness | 6—Sensor, Cart Hopper | 9—Seed Tube | 12—Sensor, Radar Distance |

SeedStar™ Display and KeyPad

OVERVIEW:

The operating system is comprised of two major components:

1. GreenStar™ tractor display system which displays information from seed monitor.
2. SeedStar™ seed monitor is the microprocessor mounted on planter frame. It controls the operations of seed, vacuum, and liquid fertilizer sensing, and sends information to be displayed over the CAN communications lines.



OM59082,25A -19-27JAN97

A-40719 -19-22JAN97

BEFORE YOU START

NOTE: There is no ON/OFF switch. Monitor is powered when tractor key is turned on.

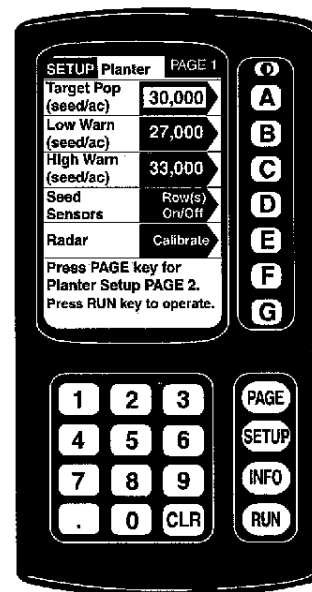
Page 1 of PLANTER SETUP is illustrated. Push PAGE to get page 2.

Adjust screen contrast with small key above key A. Press down to adjust. Press again to change direction.

Pressing key to the right-hand side of text, next to arrow, allows selection.

Highlighted area will accept numbers from numbered key pad.

NOTE: First time installation may require RUN PAGE LAYOUT/Standard layout commands for setup of vacuum and liquid fertilizer pressure on RUN page. See "Setup" section (Section 30) for details.

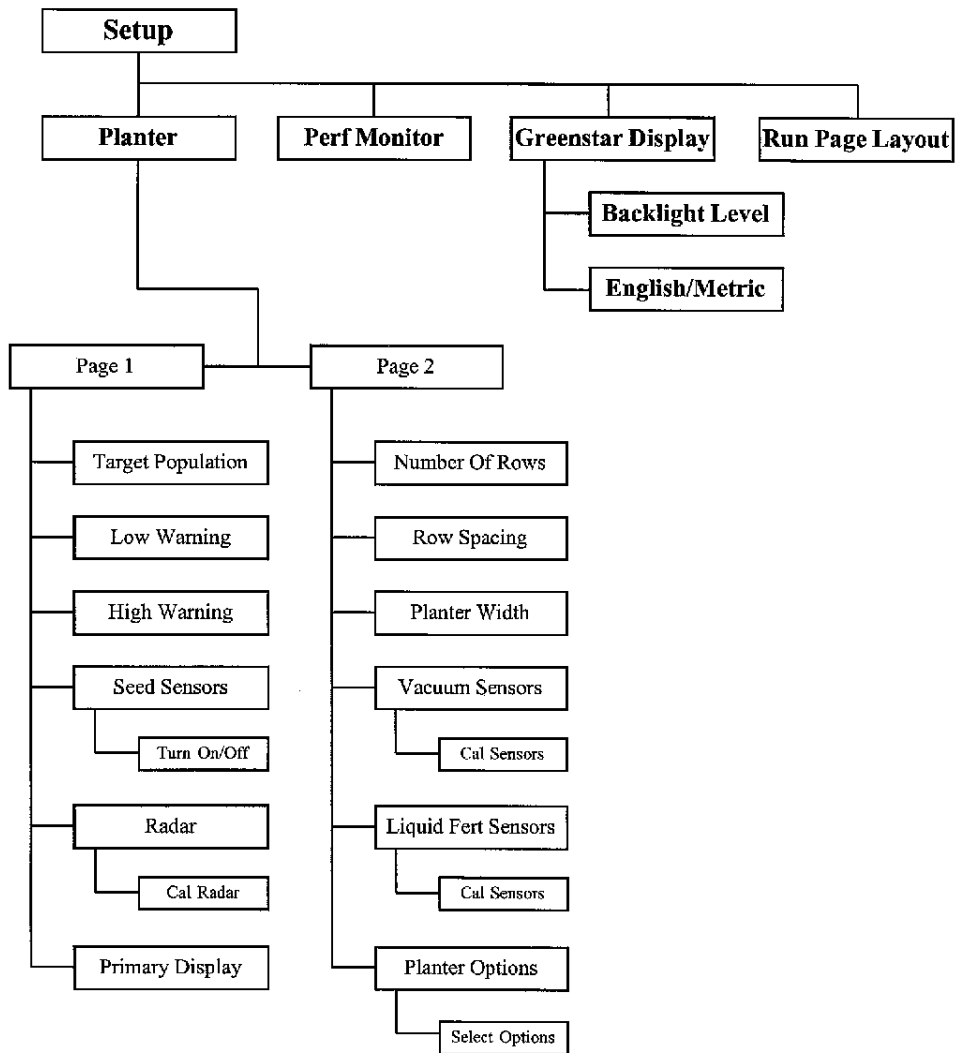


59082OM,25A -19-27JAN97

A37513 -19-17MAY96

SeedStar Monitor Setup Functions

SEED MONITOR SETUP FLOW CHART



A40722 -19-23JAN97

IMPORTANT: SETUP functions are significantly different for planters equipped with optional variable drive. If you have the variable drive option, see Section 70, "SETUP-Variable Drive".

NOTE: PERF MONITOR is an additional SETUP selection option used for future products in conjunction with tractor performance monitors.

This flow chart shows the sequence of buttons to push to get desired function. Select the top button first; then proceed downward to desired function.

OM59082,30A -19-27JAN97

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