

COMPUTER TRAK®
150 Monitors (Serial
No. 150010001-)
250 Monitors (Serial
250010001-)



JOHN DEERE

OPERATORS MANUAL

COMPUTER TRAK® 150 Monitors (Serial No.
150010001-) 250 Monitors (Serial 250010001-)

OMA59083 Issue C0 English

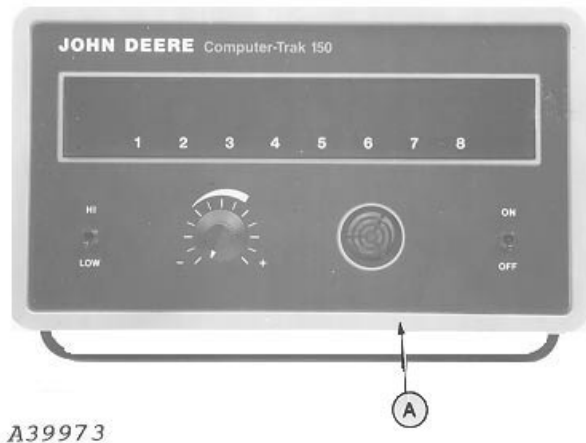
John Deere Seeding Group
OMA59083 Issue C0

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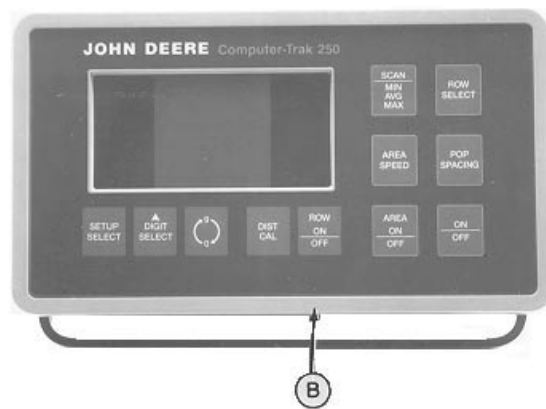


Introduction

Foreword



A39973



A39973 -UN-23JUL96

COMPUTER TRAK® Monitors

A—150

B—250

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.

AG,OUO1074,800 -19-01MAR00-1/1

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 COMPUTER TRAK® 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.

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Predelivery Check List

The following check list is a reminder of points to inspect. Check off each item as it is found satisfactory or after proper adjustment is made.

- ☐ Check battery connection for proper battery polarity and connecting locations.
- ☐ Check all wires, harnesses and connections on planter and tractor for proper fit and for clearance from moving parts.
- ☐ Operate monitor to make sure it functions properly.
- ☐ This monitor has been thoroughly checked, and to the best of my knowledge, is ready for delivery to the customer.

(Date Set Up)

(Signature of Set-Up Person)

OWNER REGISTER

Name _____
Post Office _____
County _____
City _____
State _____
Model _____
Serial No. _____
Date Sold _____

Delivery Check List

The following check list is a reminder of very important information which should be conveyed directly to the customer at the time the planter is delivered. Check off each item as it is fully explained to the customer.

- ☐ Tell the customer about all safety precautions that must be observed while using the monitor.
- ☐ Give the operator's manual to the customer and explain all operating adjustments.
- ☐ To the best of my knowledge, this monitor has been delivered ready for field use and customer has been fully informed as to proper care and operation.

(Date Delivered)

(Signature of Delivery Person)

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A John Deere ILLUSTRATION® Manual
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John Deere Service Keeps You on the Job

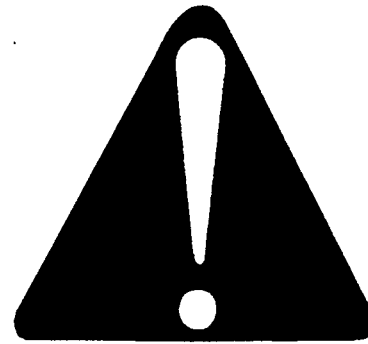
John Deere Is At Your Service When You Need It	IBC-1
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Safety

Recognize Safety Information

This is a 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.



T81389 -UN-07DEC88

DX,ALERT -19-29SEP98-1/1

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.



TS187 -19-30SEP88

DX,SIGNAL -19-03MAR93-1/1

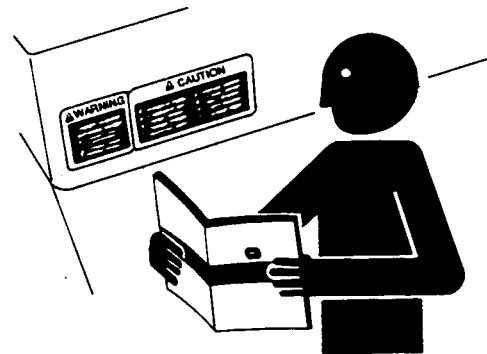
Follow Safety Instructions

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.



TS201 -UN-23AUG88

DX,READ -19-03MAR93-1/1

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.



TS177 -UN-11JAN89

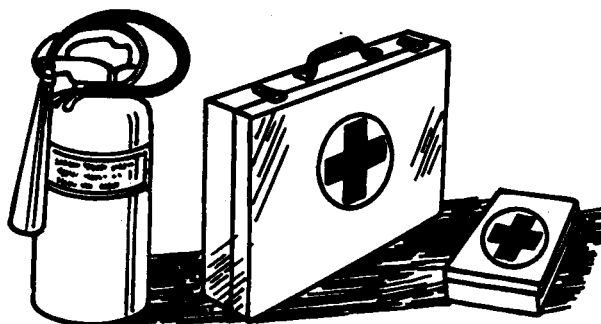
DX,BYPAS1 -19-29SEP98-1/1

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.



TS291 -UN-23AUG88

DX,FIRE2 -19-03MAR93-1/1

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.



TS219 -UN-23AUG88

DX,STORE -19-03MAR93-1/1

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.

AG,OUO1074,809 -19-01MAR00-1/1

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.

AG,OUO1074,810 -19-01MAR00-1/1

Safety Signs

Safety Signs



Radar Sensor

AG,OUO1074,811 -19-01MAR00-1/1

Attaching and Detaching

Look for Supplemental Information

Occasionally new or revised information will become available after manuals are printed. To get this up-to-date information into your hands, publication supplements are prepared and supplied to the field in the machine literature package.

Supplements can be supplied in the following forms and are usually identified with one of these titles:

- Direction(s) Sheet
- Installation Instructions
- Publications Supplement

Before your initial review of the manual, look through the machine literature package to see if any

supplemental information has been provided. If supplied, review this information to determine which procedures are impacted or modified by the revised instructions. Pay close attention to “CAUTION” and “IMPORTANT” statements. CAUTION statements address your safety, the safety of others and safe operation of the machine. IMPORTANT statements refer to machine adjustment, servicing and care.

Manuals are revised annually, at which time the supplemental information is incorporated directly into the manual, thereby eliminating the supplement.

HX,1900GI,A1A -19-21SEP98-1/1

Attaching and Detaching Monitor

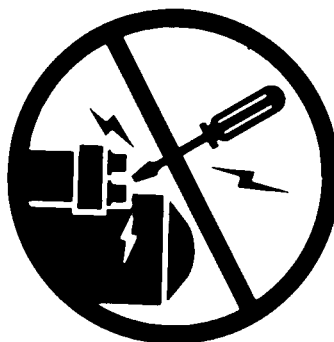


CAUTION: Avoid possible injury or death from machine runaway. Do not start engine by shorting across starter terminals. Machine will start in gear if normal circuitry is bypassed.

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.

Remove dust covers.



TS177 -UN-11JAN89

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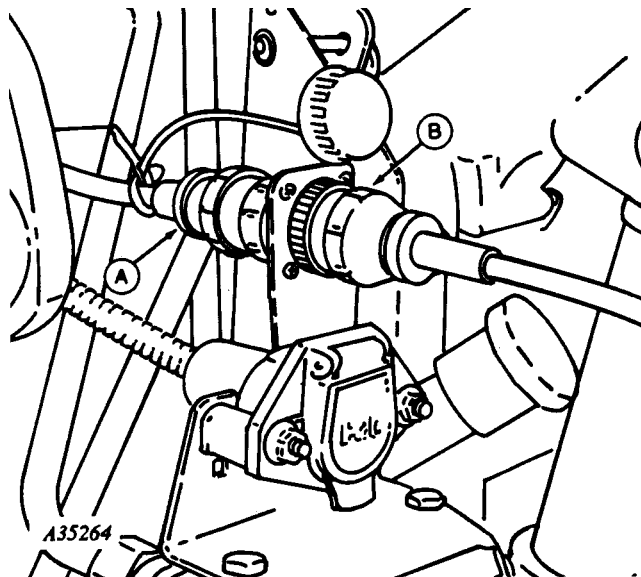
AG,OUO1074,812 -19-01MAR00-1/2

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), turn collar counterclockwise and pull straight back.

Install dust covers.

A—Monitor Connector
B—Monitor Harness



7000 Series Tractor Illustrated

AG,OUO1074,812 -19-01MAR00-2/2

COMPUTER TRAK® 150 Monitor

Preparing COMPUTER TRAK® 150 Monitor

NOTE: One monitor is used for 4-, 6- and 8-row applications.

The consoles come set up for 8-row use. If a 4- or 6-row console is desired, carefully remove the bezel with a small screwdriver.



H41828 -UN-18APR90

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AG,OUO1074,813 -19-01MAR00-1/5

NOTE: Push and twist lamps counterclockwise for removal.

Remove a lamp (A) from each end for a 6-row monitor.

A—Lamp



H41829 -UN-18APR90

6-Row Console

AG,OUO1074,813 -19-01MAR00-2/5

Remove two lamps (A) from each end for a 4-row monitor.

A—Lamps



H41830 -UN-18APR90

4-Row Console

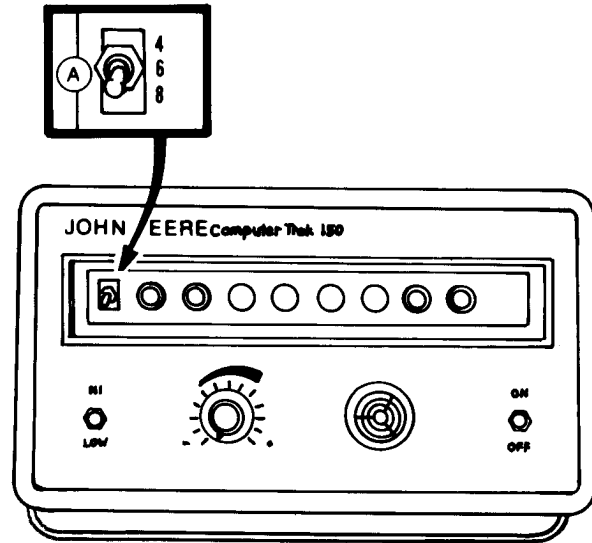
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AG,OUO1074,813 -19-01MAR00-3/5

NOTE: (12-row console used on 10-row application)
Remove only the two right-hand bulbs.

On 4-, 6- and 8-row monitors, place the switch (A) on inside of console to the correct row number position.

A—Switch



A45959 -19-02MAR00

AG,OUO1074,813 -19-01MAR00-4/5

Install proper row number bezel (A).

A—Bezel



6-Row Bezel Illustrated

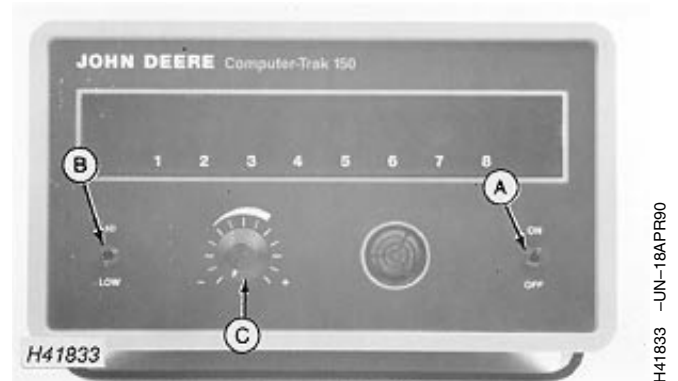
H41832 -UN-18APR90

AG,OUO1074,813 -19-01MAR00-5/5

Switches

The ON/OFF switch (A) controls the power to the monitor console. The HI/LOW switch (B) places the monitor into a HIGH range of 16 to 145 seeds per second or into a LOW range of 2 to 16 seeds per second. The HIGH range will usually be used for soybeans and other volume-metered or small seeds. The LOW range will usually be used for corn.

The tuning knob (C) sets the alarm point for monitoring of all rows seed output.



A—ON/OFF Switch
B—HI/LOW Switch
C—Tuning Knob

AG,OUO1074,814 -19-01MAR00-1/1

Operating COMPUTER TRAK® 150 Monitor (Tuning)

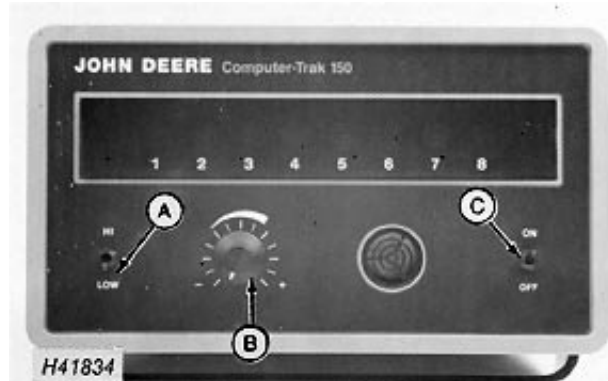
1. Position HI/LOW switch (A) to LOW.
2. Turn tuning knob (B) completely counterclockwise.
3. Turn power switch (C) ON. Begin planting and maintain constant speed.

ALL LAMPS SHOULD BE OFF.

4. Turn tuning knob (B) clockwise until ALL row lamps are ON. If lamps do not light, go to step 7.
5. Slowly turn tuning knob (B) counterclockwise until the lights just go off.
6. Position tuning knob (D) arrow an additional one full division counterclockwise (inset).

All lamps should tune out at approximately the same point on the dial. If one or more lamps tune out considerably down the scale, check those planting units for malfunction.

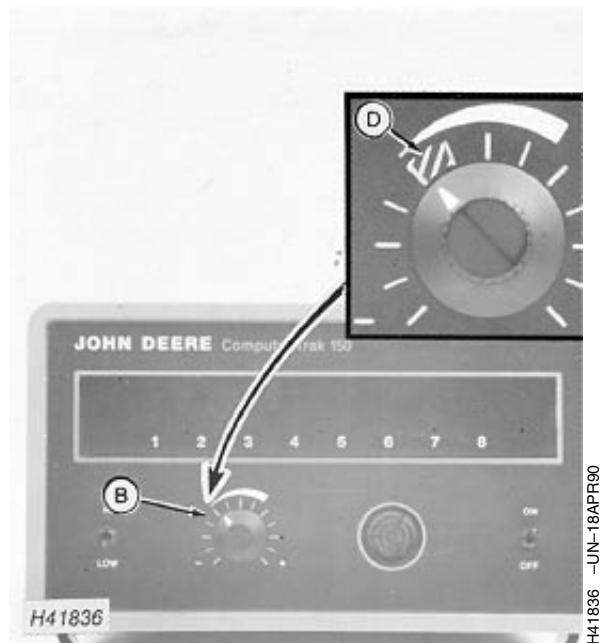
A—Hi/Low Switch
B—Tuning Knob
C—Power Switch
D—Tuning Knob



H41834 —UN-18APR90



H41835 —UN-18APR90



H41836 —UN-18APR90

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AG,OUO1074,815 —19-01MAR00-1/3

7. If, when rotating the tuning knob clockwise, you are not able to get all lamps turned on when in full clockwise position, return the rate control knob to the counterclockwise position and place the HI/LO switch (A) in the HI position. Repeat steps 5 and 6.

Once the monitor is tuned, if the seed flow in any planting unit drops, the row lamp will light (B) and the audible alarm will sound (example—inadequate seed flow to opener from seed hopper, broken finger, spring, or low vacuum, etc.).

If seed flow to the ground stops for any reason, the row lamp will come on and the audible alarm will sound (example—sheared pin, plugged opener, thrown chain, or empty hopper.)

A—HI/LOW Switch
B—Light



H41837 -UN-18APR90



H41838 -UN-18APR90

AG,OUO1074,815 -19-01MAR00-2/3

When the monitor detects all rows below the tuning point, such as turning at field ends, the audible alarm will turn off after a few seconds, but all the lamps will stay lit.

Once the tuning point has been determined, planting speed must be maintained as seed rate is directly proportional to ground speed. Any change in ground speed requires retuning of the monitor.



H41839 -UN-18APR90

AG,OUO1074,815 -19-01MAR00-3/3

Row Elimination

IMPORTANT: See your John Deere dealership for proper bulb replacement, or damage to the circuitry may result.

If a problem has developed with a sensor or harness that would show an erroneous failure, remove the desired lamp. Correct the problem as soon as possible and replace the lamp.



H41840 -UN-18APR90

AG,OUO1074,816 -19-01MAR00-1/1

COMPUTER TRAK® 250 Monitor

Preparing COMPUTER TRAK® 250 Monitor

Constants necessary for making proper calculations with the monitor are row width, number of rows and a distance calibration.

Examples throughout the set up procedure assume the planter population is set at 30,000 seeds per acre. All calculations are set in ENGLISH mode.

The monitor will default to the SET-UP mode when turned on for the first time, requiring ROW WIDTH and DIST CAL numbers to be entered before proceeding.

Seeding Equipment	Drill 24 Row 7.5 in.	Planter 6 Row 30 in.	Planter 12/23 Row 30/15 in.	Planter 12/23 Row 30/15
Usage	24 Rows 7.5 in.	6 Rows 30 in.	23 Rows 15 in.	12 Rows 30 in.
Monitor Setup Data				
Number of Rows (Sensors)	4	6	23	23
Row Spacing	7.5 in.	30 in.	15 in.	30 in.
Planter Width	180 in. (7.5 x 24)	180 in. (6 x 30)	345 in. (23 x 15)	360 in. (12 x 30)
Seed Sensors ON	ALL ON	ALL ON	ALL ON	1-3-5-7-9-11- 13-15-17-19 21-23
Seed Sensors OFF				2-4-6-8-10- 12-16-18-20 22

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AG,OUO1074,817 -19-01MAR00-1/1

Turning Console On

On the front of the console, touch the ON-OFF switch. All the display messages will appear for a few seconds, and the console will automatically perform a diagnostic check of all seed sensors. If a sensor is defective the display will read the row number and the row failed message will be displayed.



COMPUTER TRAK® 250 Monitor

AG,OUO1074,818 -19-01MAR00-1/1

High Population Limit

NOTE: If the planter harness is not connected to the monitor, the monitor will not allow HI WARN, LO WARN or ROW SPACING to be programmed.

1. If the constant information has not been programmed, or, with the monitor harness connected to the planter harness, if the SETUP SELECT switch (A) has been touched, the display will show HI WARN.
2. To change the number displayed, touch the DIGIT SELECT switch (B) until the triangle is below the number to be changed.
3. Touch 0-9 switch (C) until desired number is displayed.

NOTE: The high warning limit example is 10 percent more than the desired planting rate of 30,000 seeds per acre used in this example. This limit is a variable decided by the user. It should be kept in mind that setting too close a limit will sound the HI WARN alarm more often.

When planting volume-metered or small seeds, the pounds per acre will have to be converted to seeds per acre. Refer to the planting rate charts and information under charts in the planter operator's manual for average number of seeds per pound. Take the average seeds per pound and multiply by pounds per acre. This will give a very rough average seed/acre population.

Add 50 percent of this for a starting HI WARN limit. After the actual planting population range is displayed, the HI WARN limit may be changed to a closer tolerance.

The number shown, 033.0, is an example. This means that when any row exceeds 33,000 seeds per acre, the alarm will sound, the display will show HI WARN, and the display will lock into that row. The alarm will sound every 1/200th of an acre as long as the planting rate is being exceeded.



A—SETUP SELECT Switch
B—DIGIT SELECT Switch
C—0-9 Switch

H41843 -UN-18APR90

Low Population Limit

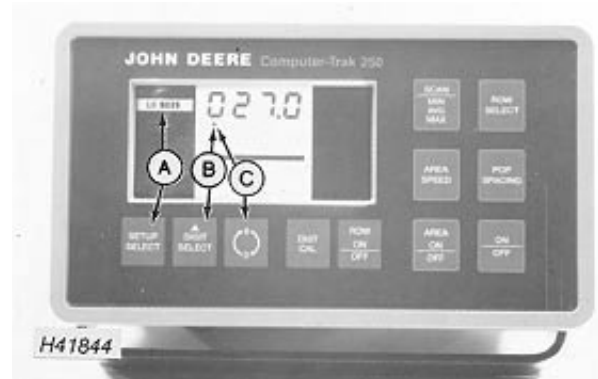
1. Touch SETUP SELECT switch (A), the display will show LO WARN.
2. To change the number, touch DIGIT SELECT switch (B) until triangle is below the number to be changed.
3. Touch 0-9 switch (C) until desired number is displayed.

NOTE: The low warning limit example is 10 percent less than the desired planting rate of 30,000 seeds per acre used in this example. This limit is a variable decided by the user. It should be kept in mind that setting too close a limit will sound the LO WARN alarm more often.

When planting volume-metered or small seeds, the pounds per acre will have to be converted to seeds per acre. Refer to the planting rate charts and information under charts in the planter operator's manual for average number of seeds per pound. Take the average seeds per pound and multiply by pounds per acre. This will give a very rough average seed/acre population.

Subtract 50 percent of this for a starting LO WARN limit. After the actual planting population range is displayed, the LO WARN limit may be changed to a closer tolerance.

The number shown, 027.0, is an example. This means that when any row is planting less than 27,000 seeds per acre, the alarm will sound, the display will show LO WARN, and the display will lock onto that row. The alarm will sound every 1/200th of an acre as long as the row is planting low.



A—SETUP SELECT Switch
B—DIGIT SELECT Switch
C—0-9 Switch

H41844 —UN—18APR90

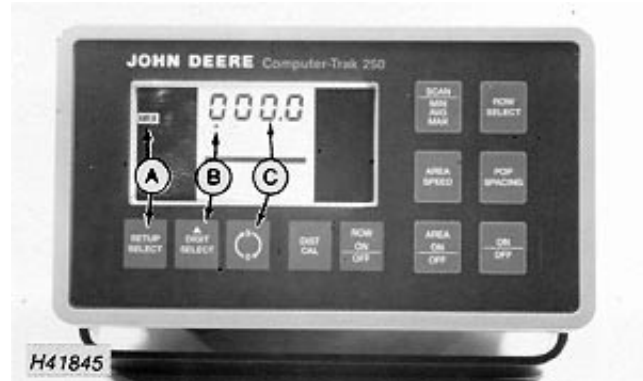
Area

1. Touch the SETUP SELECT switch (A). The display will show AREA.
2. Touch the DIGIT SELECT switch (B) until the triangle is below the number to be changed.

NOTE: The monitor will only show the decimal point up to 999.9. Further area readings will show whole numbers only such as 1000, 1001, 1002, etc. If the decimal point is desired, it will be necessary to start over at 000.0.

AREA is used to clear previously accumulated area or preset an area.

3. Touch the 0-9 switch (C) until zero or the desired number is displayed.



A—SETUP SELECT Switch
B—DIGIT SELECT Switch
C—0-9 Switch

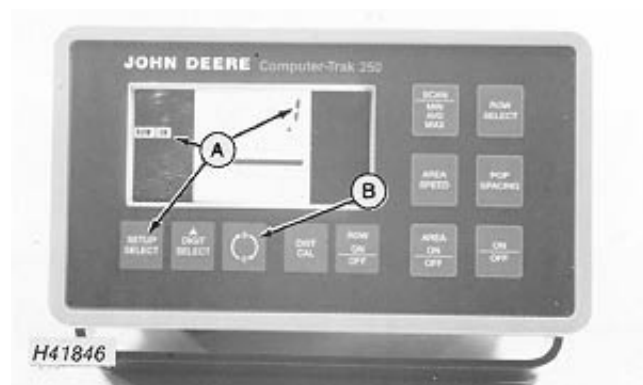
AG.OUO1074,821 -19-01MAR00-1/1

Row On/Off

1. Touch the SETUP SELECT switch (A) the display will show ROW ON and (1).
2. Each time the 0-9 switch (B) is touched, the next row number will be displayed.

For normal planting, all the rows should be ON.

A—SETUP SELECT Switch
B—0-9 Switch



Continued on next page

AG.OUO1074,822 -19-01MAR00-1/2

If a row must be turned OFF, display that row and press the ROW ON/OFF switch (A). The display will show that row OFF.

This row will not be monitored for seed population but will still accumulate area planted.

Repeat procedure until each row that must be OFF shows OFF message when its row number is selected and displayed.

NOTE: If a row has been turned OFF, the rows turned off will be remembered when the monitor is turned OFF and ON.

The row can be turned back on by pushing the ROW ON/OFF switch for any particular row displayed.

(7240, 7340, 1780 and 1730 planters only) Row spacing and number of rows must be reset whenever there is a change in the number of planting units being used.

Use the following chart for set up when planting with a 1780 planter.

NOTE: 1730, 7240 and 7340 planters use same procedure with number of rows on planter.

Function	Set-Up For 12—30 in. Rows	Set-Up For 23—15 in. Rows	Comments
Number of Rows	23	23	Accesses all row sensors for proper implement width.
Row Spacing	30	15	Spacing for proper population display.
Implement Width	360	345	Width for correct acre display.
Row On/Off	2,4,6,8	None	Shut off all even rows when planting 30 inch.



A—ROW ON/OFF Switch

Row Spacing

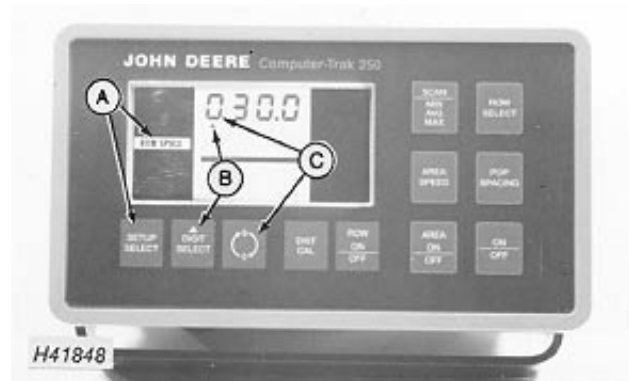
NOTE: The 762 mm (30 in.) row space shown is an example.

1. Touch SETUP SELECT switch (A). Display will show ROW SPACE.
2. Touch DIGIT SELECT (B) until triangle is below number to be changed.

NOTE: If row spacing is equal to 0 or greater than 121.9 m (400 ft) the monitor will be forced into the **FORCED SETUP STATE**. The monitor will not acknowledge other selections until set to a proper row spacing.

3. Touch 0-9 switch (C) until desired number is shown.

Changing the row spacing will recalculate IMPLEMENT WIDTH.



A—SETUP SELECT Switch
B—DIGIT SELECT Switch
C—0-9 Switch

AG,OUO1074,823 -19-01MAR00-1/1

Number of Rows

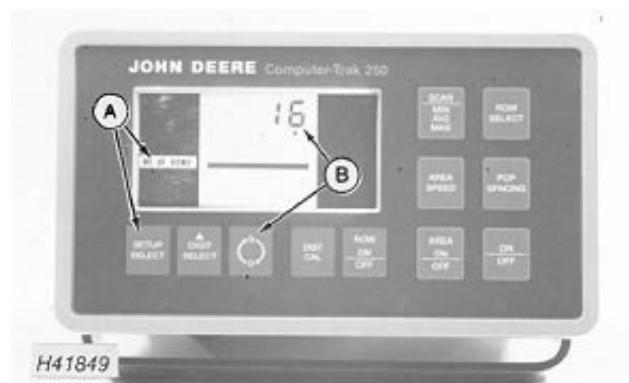
NOTE: The 16 number of rows shown is an example.

1. Touch the SETUP SELECT switch (A). The display will show number of ROWS.

NOTE: Any change in the number of rows will turn on all rows previously turned off in the row ON/OFF procedure.

2. Touch the 0-9 switch (B) until the total number of planter rows are displayed.

Changing the number of rows will recalculate IMPLEMENT WIDTH.



A—SETUP SELECT Switch
B—0-9 Switch

AG,OUO1074,824 -19-01MAR00-1/1

Distance Calibration

1. Touch the SETUP SELECT switch (A). The display will show DIST/CAL.

Driving the planter through a 121.9 m (400 ft) marked off distance in a planting field will give the monitor the MOST ACCURATE information.

2. While driving the planter at planting speed, push the DIST/CAL switch (B) exactly when passing start marker on the 121.9 m (400 ft) marked course. This will set the display at zero and start counting the pulses. Exactly when passing the end 121.9 m (400 ft) marker, push the DIST/CAL switch again.

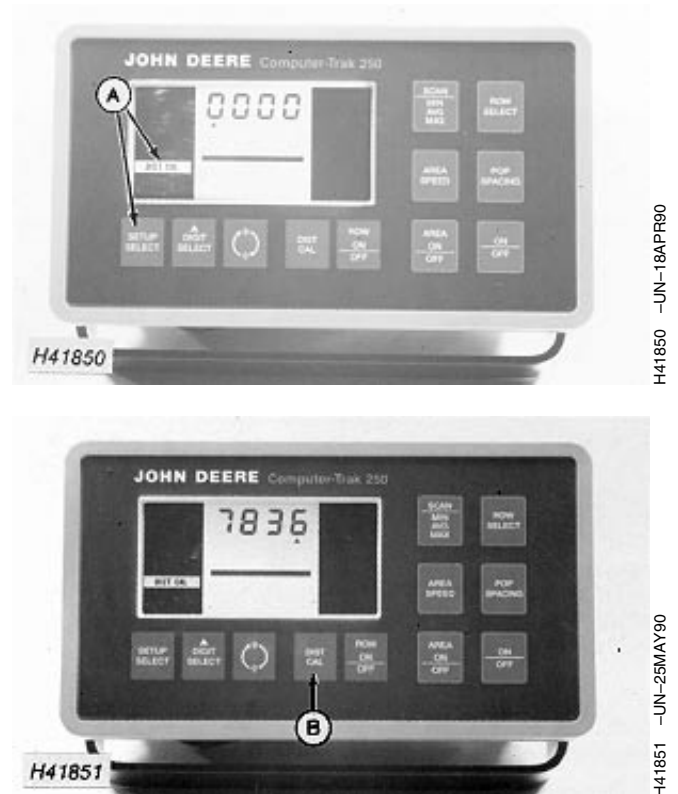
The display will show approximately 7836.

This is a theoretical number and different conditions will give a slightly different result. The number can be input into the console by using the DIGIT SELECT and 0-9 switches, but the most accurate population data will be obtained by using the 121.9 m (400 ft) marker course method.

NOTE: The number can be changed by entering the new number with the DIGIT SELECT and 0-9 switch in the setup mode. The value must be between 300 and 9999, or the monitor will be forced into the FORCED SETUP STATE. The monitor will not acknowledge other selections until a proper value has been entered.

(Tractors Equipped with a Performance Monitor Only) The radar for the tractor performance monitor and the radar for the 250 planter monitor have the same output. Each radar may be connected independently to each monitor or both radars may be used as input to both monitors at the same time with a "Y" harness (see your John Deere dealer for part number).

The nominal calibration for the tractor performance monitor and planter monitor will NOT be the same. Nominal calibration number on planter monitor is 7836.



A—SETUP SELECT Switch
B—DIST/CAL Switch

It is not necessary to calibrate both monitors over a 121.9 m (400 ft) course. If the tractor monitor is calibrated in the field on a 121.9 m (400 ft) course, multiply that number by 1.365 and enter into the planter monitor. If the planter monitor is calibrated in the field on the 121.9 m (400 ft) course, multiply that number by .733 and enter into the tractor monitor.

Example:	
Tractor Monitor	$5800 \times 1.365 = 7917$
Planter Monitor	$7900 \times .733 = 5790$

AG,OUO1074,825 -19-01MAR00-2/2

Implement Width

Touch the SETUP SELECT switch (A). The display will show IMPLEMENT WIDTH in inches (cm). Any changes made to the number of rows or row spacing, the IMPLEMENT WIDTH will automatically change. The value is changeable by using the DIGIT SELECT and 0-9 switches to enter a different IMPLEMENT WIDTH for special planting, such as skip row planting.

A—SETUP SELECT Switch



H41852 -UN-25MAY90

AG,OUO1074,826 -19-01MAR00-1/1

English/Metric Selection

To alternate the selection, push the SETUP SELECT and DIGIT SELECT switches (A) simultaneously. The display will show "METRIC" when in the metric mode.

A—Switches



H41853 -UN-18APR90

AG,OUO1074,827 -19-01MAR00-1/1

Resetting Constants

IMPORTANT: All setup information remains in the monitor even if disconnected from the battery.

Once all monitor constants have been set, any change can be made. Touch the SETUP SELECT switch until the step to be changed is displayed.

AG,OUO1074,828 -19-01MAR00-1/1

Operating 250 Monitor (Turning Monitors On)

Touch the ON/OFF switch, the initial POWER-UP display will be shown.



AG,OUO1074,829 -19-01MAR00-1/2

The display will cycle through all rows and show rows failed if planter is stopped.

If one of the setup messages is displayed, each setup must be examined for a possible change, and to verify correct setup values.

If any of the values have changed, correct them; then touch any one of the right-hand switches to operate the monitor.



Row 1 Failed Illustrated

AG,OUO1074,829 -19-01MAR00-2/2

Seed Population

With the power on and the planter operating, the monitor scans the population rate of each row in sequence.

NOTE: During start up, there will be a slight hesitation before the monitor starts counting up. This is normal and is done to eliminate start up errors.

When planting starts, the monitor receives signals from the seed sensors and radar sensor. During the first 1/200th acre, about 27.4 m (90 ft) of planting with 76 cm (30 in) rows, the monitor counts up to the actual population, then scans each row population.

Some of the top and bottom switches are dual function.



H41856 -UN-18APR90

AG,OUO1074,830 -19-01MAR00-1/4

Touching the SCAN MIN.AVG.MAX. switch (A) while the monitor is scanning, causes the display to switch to the MIN.AVG.MAX. mode.

First the row number with the lowest (MIN) (B) population rate is displayed.

A—SCAN MIN.AVG.MAX Switch
B—MINIMUM

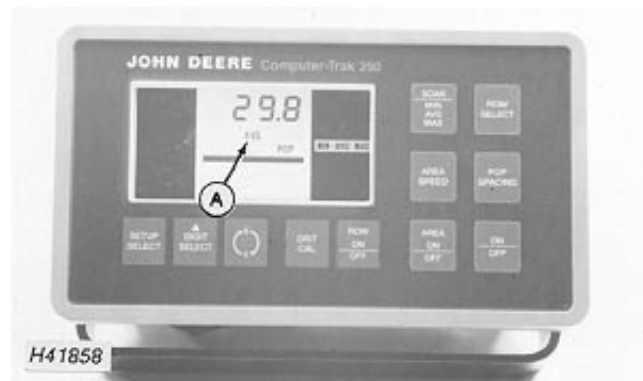


H41857 -UN-25MAY90

AG,OUO1074,830 -19-01MAR00-2/4

Secondly, the average (AVG) (A) population of all the rows is displayed.

A—Average



H41858 -UN-18APR90

Continued on next page

AG,OUO1074,830 -19-01MAR00-3/4

Then the row number with the highest (MAX) (A) population rate is displayed.

The MIN.AVG.MAX. mode will keep repeating until the SCAN MIN.AVG.MAX. or another operate switch is touched.

A—MAXIMUM



H41859 -UN-18APR90

AG,OUO1074,830 -19-01MAR00-4/4

Row Select

Touching the ROW SELECT switch (A) will stop the row scanning and only the row that is displayed will be shown. Touching ROW SELECT again will advance the display to the next row number. In this mode, if the population changes, the display will update and show the new population.

A—ROW SELECT Switch



H41860 -UN-18APR90

AG,OUO1074,831 -19-01MAR00-1/1

Area Speed

NOTE: The monitor will only show the decimal point up to 999.9. Further area readings will show whole numbers only such as 1000, 1001, 1002, etc. If the decimal point is desired, it will be necessary to start over at 000.0.

Touching the AREA SPEED switch (A) will display ground speed and area covered (acres or hectares if in the "METRIC" mode).

A—AREA SPEED Switch



H41861 -UN-18APR90

AG,OUO1074,832 -19-01MAR00-1/1

Failed Messages

With the system in operation, if the seed rate in any row falls below two seeds per second, the alarm will sound and the number of the failed rows is displayed without a population. The messages ROW and FAILED are displayed, and the audible alarm sounds continuously. This overrides any other display.

When the planter is stopped, the monitor continues to display the failed message, but the alarm will stop after a few seconds. With the planter stopped, the right-hand switches can be operated to review population for the last 1/200th of an acre.



Row 1 Failed Illustrated

AG,OUO1074,833 -19-01MAR00-1/3

The loudness of the audible alarm can be changed by rotating the alarm cover (A) on bottom of monitor.

When planting is resumed, if the problem causing the alarm condition has not been corrected, the alarm will sound and the message will be displayed. If the condition has been corrected, the monitor resumes in the display mode it was in before the failure occurred.

A—Alarm Cover



AG,OUO1074,833 -19-01MAR00-2/3

If the radar signal is lost due to a poor connection, pinched harness or failed radar sensor, the seed population, area or ground speed cannot be computed. FAILED, SPEED will be shown.

The sensor problem should be fixed as soon as possible, but if planting must be continued, the monitor will still monitor seed flow. If the rate in any row falls below two seeds per second, the row failed message will be displayed.



AG,OUO1074,833 -19-01MAR00-3/3

Display During Transporting or Turning Around

When the planter is lifted and no seed drop is detected, the monitor indicates failure of each row in sequence.

The audible alarm will sound for a few seconds.

NOTE: *It is normal for the monitor not to display information for approximately five seconds after planting has restarted. The computer is performing a "self-check" to be sure all sensors are working.*

When planting is restarted, the monitor will display information from the last 1/200th of an acre and begin to update.

AG,OUO1074,834 -19-01MAR00-1/1

High or Low Population Warnings

NOTE: *If the high and low limits are set too close to each other, this warning will occur often.*

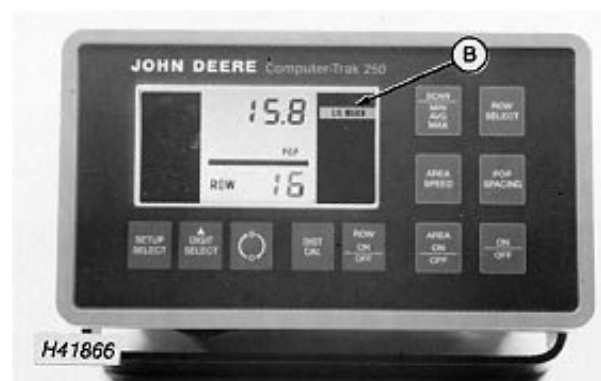
When the population of any row is outside the limits of either the HIGH or LOW settings, the display shows the rows, the actual planting population and a HI warning (A) or LO warning (B). Also the alarm will sound intermittently.

When the planter is stopped, the right-hand switches will override the ROW FAILED indications so the row populations can be compared for diagnostic purposes, or to determine new HI/LO warning limits.

A—HI Warning
B—LO Warning



250 Monitor—High Population Warning



250 Monitor—Low Population Warning

AG,OUO1074,835 -19-01MAR00-1/1

Seed Spacing

Touching the POP/SPACING switch (A) will display the seed spacing instead of the population with either the SCAN or ROW SELECT switches. ROW SELECT is shown.

Touching the SCAN MIN.AVG.MAX. switch (B) will display the row with the minimum (MIN) (C) seed spacing first.

- A—POP/SPACING Switch
- B—SCAN MIN.AVG.MAX Switch
- C—Minimum



H41867 -UN-25MAY90



H41868 -UN-25MAY90

AG.OUO1074,836 -19-01MAR00-1/2

Secondly, the average (AVG) (A) seed spacing of all the rows will be displayed.

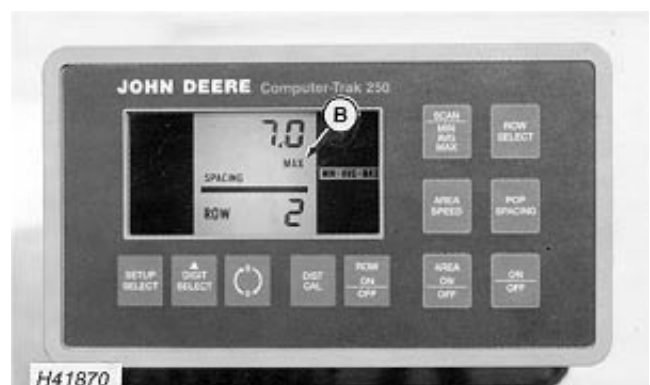
Then the row with the maximum (MAX) (B) seed spacing will be displayed.

Touching the POP/SPACING switch again will return to population on the display.

- A—Average
- B—Maximum



H41869 -UN-25MAY90



H41870 -UN-25MAY90

AG.OUO1074,836 -19-01MAR00-2/2

Point Row Planting

If either half of machine is turned off, pushing the ROW ON/OFF switch (A) on outside and continuous rows, allows monitoring of the remaining rows with the off rows temporarily disabled. Area calculations are for operating rows only. The monitor returns to normal operation after seed detection in any disabled row.

EXAMPLE: (12-Row Planter) If the left-hand clutch is disengaged, normal planting will show 6-ROWS FAILED. Pushing the ROW/ON-OFF switch on the monitor, will clear failed messages and continue scanning operative rows.



A—ROW ON/OFF Switch

AG,OUO1074,837 -19-01MAR00-1/1

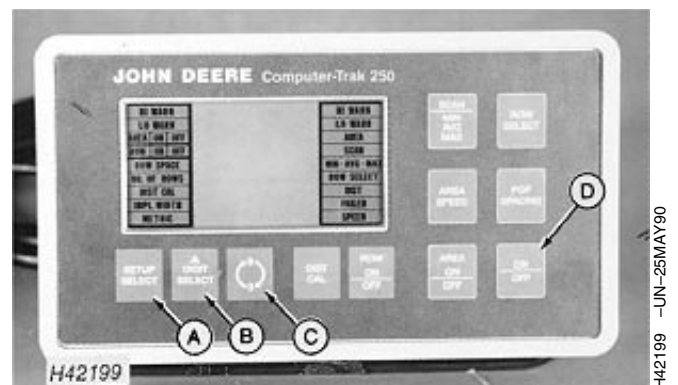
Monitor History (Planter Mode)

There is some data stored in the consoles permanent memory.

AG,OUO1074,838 -19-01MAR00-1/3

To access this data, push SETUP SELECT (A), DIGIT SELECT (B), 0-9 switch (C) simultaneously, then POWER UP switch (D). After powering up release all switches.

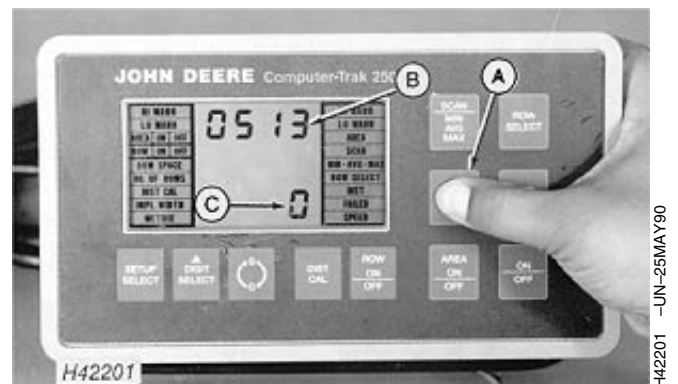
- A—Setup Select
- B—Digit Select
- C—0-9 Switch
- D—Power Up



AG,OUO1074,838 -19-01MAR00-2/3

(PLANTER MODE) Push AREA SPEED switch (A). The upper display (B) will show total acres accumulated up to 9,999 acres, and the lower display (C) will show acres accumulated at 10,000 acres and above, along with information on display (B).

- A—AREA SPEED Switch
- B—Upper Display
- C—Lower Display



AG,OUO1074,838 -19-01MAR00-3/3

Speed Set Mode

(Population Monitor without a Distance Sensor).

This feature allows the operator to enter a fixed ground speed in the event of the failure of a distance sensor.



Distance Failed

AG,OUO1074,839 -19-01MAR00-1/3

To enter the SPEED SET MODE turn the monitor on (POWER UP) with the AREA ON/OFF switch (A) depressed for one second, all the display messages will appear for a few seconds.

The display will then show ROW 1 FAILED (B).

- A—AREA ON/OFF Switch
- B—ROW 1 FAILED



Display



Row 1 Failed

Continued on next page

AG,OUO1074,839 -19-01MAR00-2/3

Push SETUP SELECT switch (A), the display will show SPEED.

Using the DIGIT SELECT and 0-9 switches (B) to input speed. Only the POP mode with SCAN, MIN-AVG-MAX, or ROW SELECT may be used. The SEED COUNT and DISTANCE COUNT modes may also be selected. There will not be any LO or HI WARNS or DIST/FAILED messages. However ROW FAILURES will be displayed if they occur.

In this mode the operator will observe apparent variations in population as the speed is varied. This is due to calculations based upon a constant speed which has been programmed into the monitor in the SETUP state and must be maintained for the displayed populations to be correct. SPEED SET MODE information must be re-entered on every power up.

- A—SETUP SELECT Switch
B—DIGIT SELECT and 0-9 Switch



Calculated Speed Set

AG,OUO1074,839 -19-01MAR00-3/3

Seed Count Mode

Seed Count Mode allows the operator to view the number of seeds that pass a single row sensor.

Continued on next page

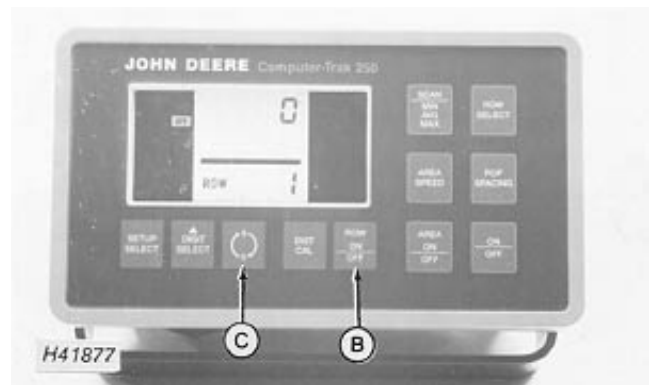
AG,OUO1074,840 -19-01MAR00-1/2

To enter this mode Press SCAN and ROW SELECT (A) simultaneously when either the planter is stopped with all rows showing failed, or during normal planting when all rows are not failed.

The ROW ON/OFF switch (B) alternately STARTS and STOPS the count. The 0-9 switch (C) resets the accumulated count and increments the row number selected.

To exit this mode push either SCAN, ROW SELECT, AREA/SPEED, POP SPACING or SETUP SELECT switches. While in this mode row failures will be displayed but HI-LO warnings will not. Also the DIST/FAILED function is inoperative in this mode. If a ROW FAILURE occurs, the SEED COUNT MODE will be exited.

- A—SCAN and ROW SELECT
- B—ROW ON/OFF Switch
- C—0-9 Switch



AG,OUO1074,840 -19-01MAR00-2/2

Distance Count Mode

Distance Count Mode allows the operator to measure off the distance driven based on radar information.

Continued on next page

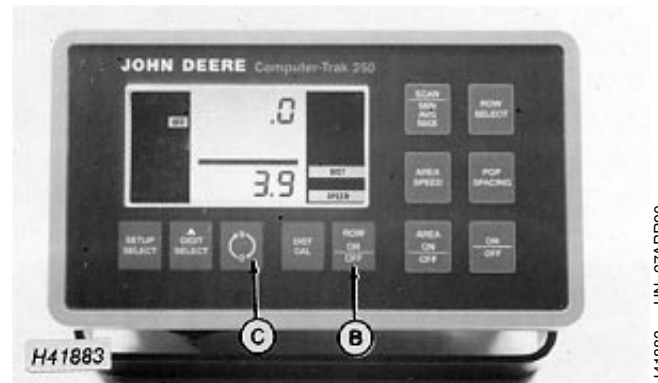
AG,OUO1074,841 -19-01MAR00-1/2

To enter this mode press AREA/SPEED and POP SPACING (A) simultaneously. Speed will also show in the lower display.

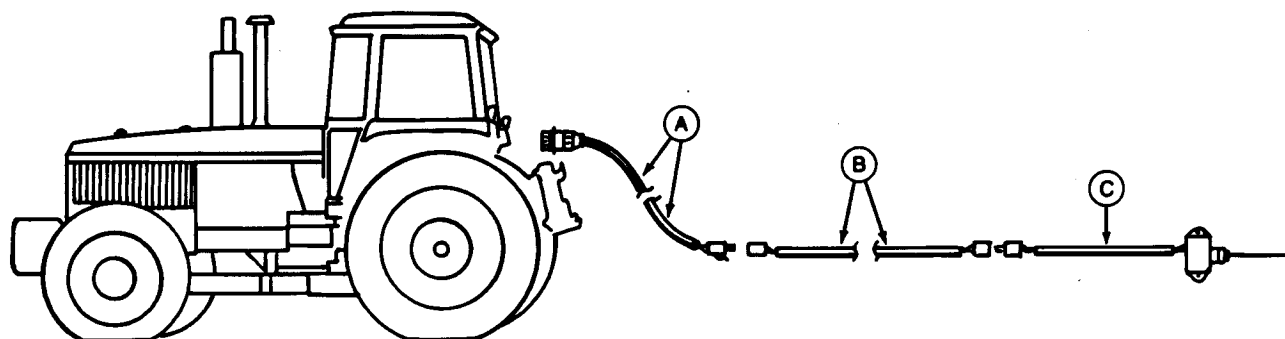
To start and stop the distance measure, press the ROW ON/OFF switch (B). To reset distance to zero, press the 0-9 switch (C).

To exit the function, press SCAN, ROW SELECT, AREA/SPEED, POP SPACING or SETUP SELECT.

- A—AREA/SPEED and POP SPACING
- B—ROW ON/OFF Switch
- C—0-9 Switch



Speed-Area Monitor (for Use with Implements Other than Planters)



H41914

H41914 -JUN-16MAY90

A—SPEED-AREA Harness

B—Extension Harness

C—Harness Lift Switch

NOTE: See your John Deere Dealer for the following harnesses.

Connect SPEED-AREA harness (A), extension harness (B) and harness lift switch (C).

The monitor will assume the (SAM-SPEED-AREA MONITOR) state whenever powered up with the planter harness not connected to the console. The SPEED-AREA harness may be connected to the console in place of the planter harness allowing for a "Lift Switch" input.

NOTE: Three functions may be selected for **SETUP** in **SAM MODE**.

1. AREA can be set to any number using **SETUP SELECT**, **DIGIT SELECT**, and 0-9 switches.
2. **DIST/CAL** must use a properly operating distance sensor. Calibrate by using the same method as shown for normal planter monitor mode.

3. **IMPLEMENT WIDTH**. Enter the effective implement width. It is advisable to make several passes to determine effective width, due to implement overlap. Width is in inches or cm.

NOTE: Two functions may be selected to **OPERATE** in **SAM MODE**.

1. **AREA ON/OFF**. The area accumulator may be turned on and off with the **AREA ON/OFF** switch. If a lift switch has been installed, the actuation of the lift switch either **ON** or **OFF** will override the selection made by this switch. The status **ON** or **OFF** is shown in the left-hand side of the display. All other operate push-buttons other than **AREA/SPEED** will be ignored.
2. **DISTANCE COUNT MODE** push **AREA/SPEED** and **POP SPACING** switches simultaneously. To start and stop distance counts, push **ROW ON/OFF** switch. To reset the accumulated count push the 0-9 switch.

AG,OUO1074,842 -19-01MAR00-1/1

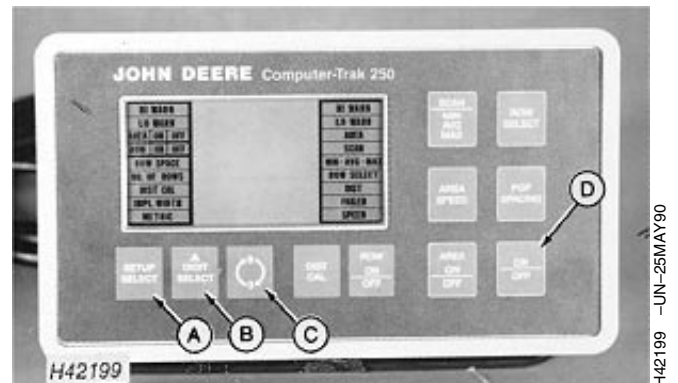
Monitor History (SAM Mode) (SAM-Speed Area Monitor)

There is some data stored in the consoles permanent memory.

AG,OUO1074,843 -19-01MAR00-1/3

To accessed this data, push SETUP SELECT (A), DIGIT SELECT (B), 0-9 switch (C) simultaneously, then POWER UP switch (D). After powering up release all switches.

- A—Setup Select
- B—Digit Select
- C—0-9 Switch
- D—Power Up



AG,OUO1074,843 -19-01MAR00-2/3

(SAM-SPEED AREA MONITOR) Push POP SPACING switch (A). The upper display (B) will show total acres accumulated up to 9,999 acres, and the lower display (C) will show acres accumulated at 10,000 acres and above, along with information on display (B).

- A—POP SPACING Switch
- B—Upper Display
- C—Lower Display



AG,OUO1074,843 -19-01MAR00-3/3

Troubleshooting

Monitors

Symptom	Problem	Solution
Console operates intermittently.	Monitor not receiving full 12 volts.	Be certain console-to-convenience outlet connection is tight.
One row shows failure.	Seed tube plugged.	Unplug seed tube.
	Unit roller chain off sprocket.	Replace roller chain.
	Unit not planting.	See Service section in planter operator's manual.
	Seed sensors are dirty.	Clean sensors with sensor brush (available from your John Deere dealer) or with a bottle brush.
	Plateless units—fingers malfunctioning.	Replace fingers or springs (see Service section in planter operator's manual.)
Failure shown for half of planter's units.	Shorted sensor or planter harness.	Check for damaged harness.
	Sheared drill shaft pin.	Replace pin.
	Drive chain in center of planter off sprockets.	Replace chain on sprockets.
All rows fail.	Shorted sensor or planter harness.	Check for damaged harness.
	No power to sensors.	Check for damaged harness.
	Shorted sensor or planter harness.	Check for damaged harness.
Failure shown intermittently. (COMPUTER TRAK® 150 only) One lamp fails to light when units are turned on.	Burned out lamp.	Test for burned out lamp by installing a good lamp from another row. If lamp is burned out, see your John Deere dealer for proper replacement bulb.
	Short in sensor harness or planter harness.	Check for shorted sensor harness or planter harness wire. If wires are cut or damaged, solder wires back together according to color codes and tape each wire individually.

Troubleshooting

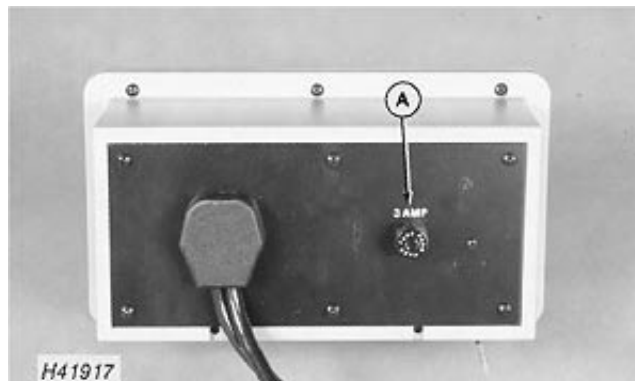
Symptom	Problem	Solution
(COMPUTER TRAK® 250 only) Erratic monitor operation.	Intermittent excessive planter drive wheel slippage.	Check to be sure row unit down pressure springs are not excessively tight (too much down force), or add ballast to planter frame. Be certain that row attachments such as coulters or tine tooth are not carrying too much planter frame weight.
	HI-WARN or LOW-WARN alarm sounds too frequently.	Limits may be set too close for planting conditions. Planter seed sensors may be dirty. Planter drive wheels may be slipping excessively.
Fuses blown in console.	Short in sensor harness or planter harness.	Check for damaged harness.
Console will only power up in Speed Area Monitor mode (will not allow HI WARN, LO WARN or ROW WIDTH to be programmed).	Monitor not connected to planter harness.	Connect to planter harness.
	Planter harness has open circuit in ground (black) or +8V (red) between 37-pin connector and potted junction.	Repair harness.
COMPUTER TRAK is a trademark of Deere & Company. AG,OUO1074,844 -19-01MAR00-2/2		

Service

Monitor Fuse

COMPUTER TRAK® 150 Monitor uses one 3 amp fuse (A).

A—3 Amp Fuse



COMPUTER TRAK® 150 Monitor

H41917 -UN-25MAY90

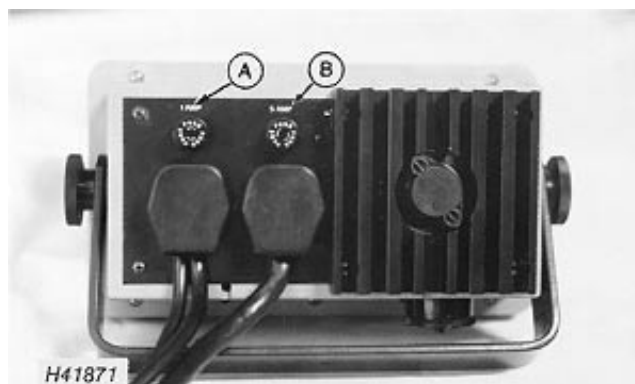
COMPUTER TRAK is a trademark of Deere & Company.

AG,OUO1074,845 -19-01MAR00-1/2

COMPUTER TRAK® 250 Monitor uses a 1 amp fuse (A) and a 3 amp fuse (B).

A—1 Amp Fuse

B—3 Amp Fuse



COMPUTER TRAK® 250 Monitor

H41871 -UN-25MAY90

COMPUTER TRAK is a trademark of Deere & Company.

AG,OUO1074,845 -19-01MAR00-2/2

Lamps

(COMPUTER TRAK® 150). If replacement bulb is needed, see your John Deere dealer for proper bulb.



H41872 -UN-18APR90

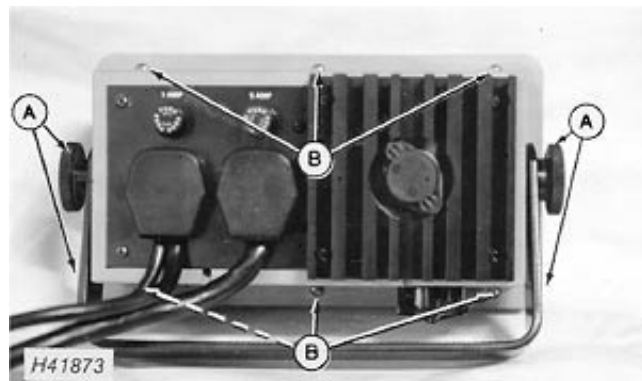
COMPUTER TRAK is a trademark of Deere & Company.

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AG,OUO1074,846 -19-01MAR00-1/2

1. (COMPUTER TRAK® 250 Display Back-light) Remove adjusting knobs from console and remove console from mounting bracket (A).
2. Remove screws (B) from monitor.
3. Carefully pull apart monitor halves (C).
4. Turn lamp socket (D) one quarter turn and remove. See your John Deere dealer for proper replacement bulb.
5. Replace cover and screws.

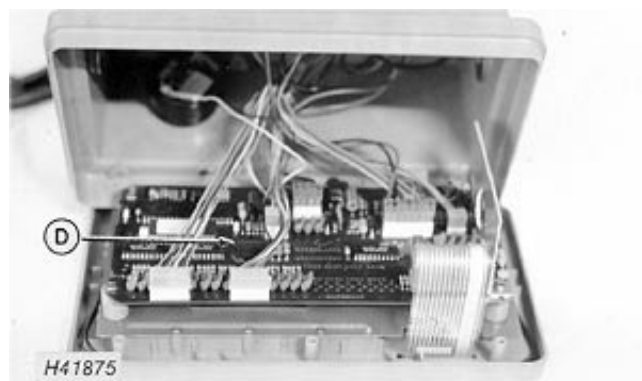
A—Bracket Mounting
B—Screws
C—Monitor Halves
D—Lamp Socket



H41873 -UN-18APR90



H41874 -UN-18APR90



H41875 -UN-18APR90

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AG,OUO1074,846 -19-01MAR00-2/2

Regular, Regular Straight, Small Straight and Large Seed Tubes (MaxEmerge Plus Row Units)

If seed tubes must be removed or replaced, proceed as follows:

To remove:

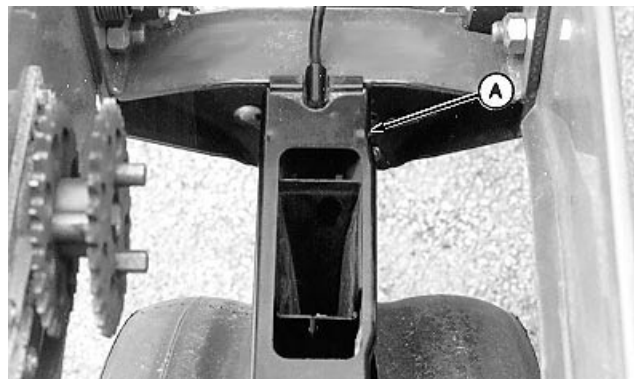
1. Disconnect planter harness from seed tube sensor.

Continued on next page

AG,OUO1074,847 -19-01MAR00-1/5

2. Remove shank cover (A).

A—Cover



A41218 -UN-14MAY97

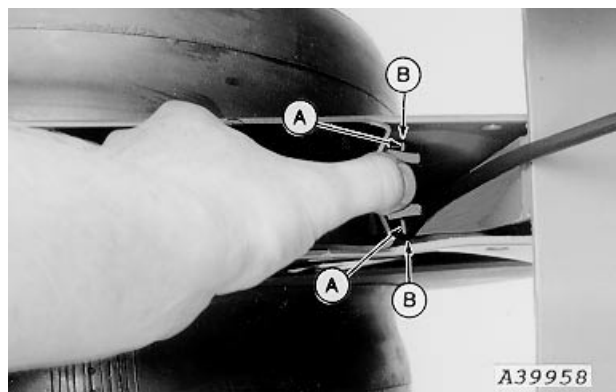
AG,OUO1074,847 -19-01MAR00-2/5

3. Depress front of seed tube to disengage tabs (A) from latching holes (B).

4. Remove seed tube.

To install:

A—Disengage Tabs
B—Latching Holes



A39958 -UN-05AUG96

AG,OUO1074,847 -19-01MAR00-3/5

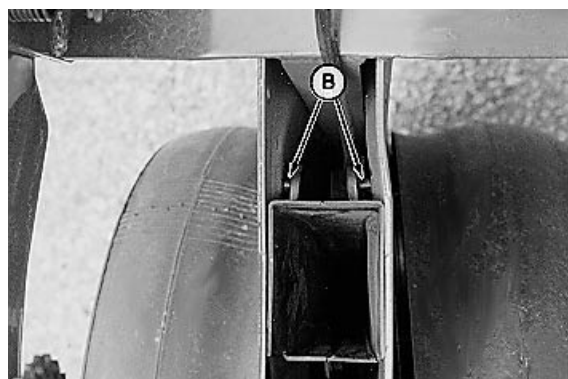
IMPORTANT: If seed tube is not properly located on aligning pin, inaccurate seed metering and/or damage to the seed tube may occur.

1. Position seed tube in shank, making certain it is engaged on pin (A).
2. Depress front of seed tube and engage tabs (B) in latching holes.

A—Pin
B—Engage Tabs



A41217 -UN-14MAY97



A41219 -UN-14MAY97

Continued on next page

AG,OUO1074,847 -19-01MAR00-4/5

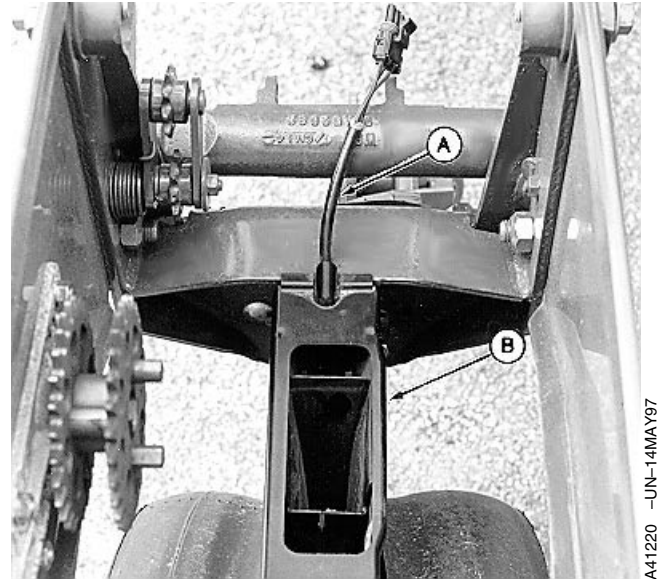
3. Route harness lead (A) out of shank as shown.

4. Replace shank cover (B).

NOTE: make certain all slack is out of sensor lead before securing with ties.

5. Connect seed tube sensor harness to planter harness.

A—Harness Lead
B—Cover



AG,OUO1074,847 -19-01MAR00-5/5

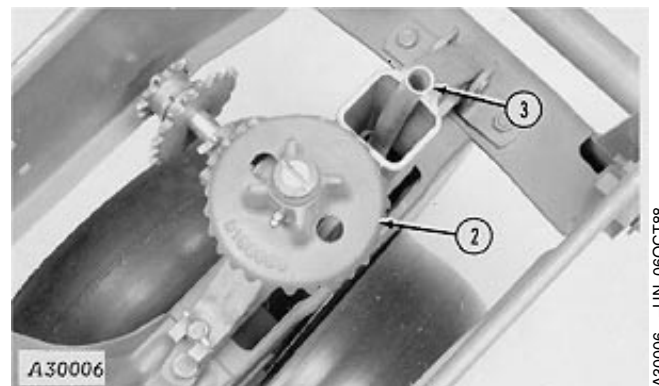
Sugar Beet Seed Tube (Plate Meter)

If seed tubes must be removed, proceed as follows:

1. Disconnect drive chain.
2. Remove plate-meter gear nest.
3. Remove seed tube assembly.

IMPORTANT: The top of the seed tube should make light contact with the false plate. Too much pressure can cause false plate wear and seed tube damage.

NOTE: When installing seed tubes, be certain hook on seed tube is on the aligning pin in the shank.



AG,OUO1074,848 -19-01MAR00-1/1

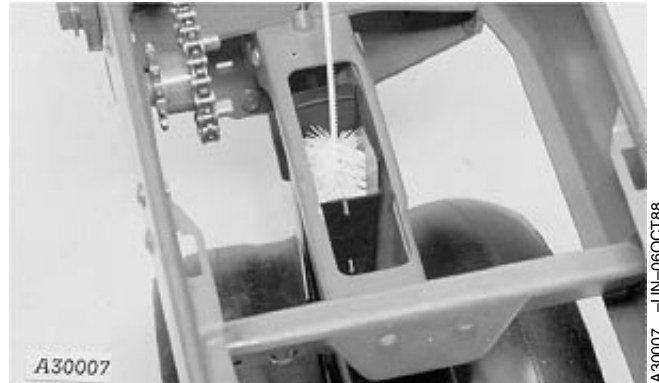
Cleaning Seed Sensor

In extremely dusty operating conditions, dust can build up on the seed sensor. Even in normal operating conditions, seed treatments can build up on the sensor. Eventually this buildup may become sufficient to disturb the sensor signal light, causing low population counts or low warnings to be indicated.

Periodically clean the seed sensor with the brush (dry) provided.

The sensor may also be cleaned with the brush, using mild detergent and water.

IMPORTANT: Do not plant again until the entire seed tube and sensor surfaces are dry.



AG,OUO1074,849 -19-01MAR00-1/1

Monitor and Radar Installation

Assemble COMPUTER TRAK®

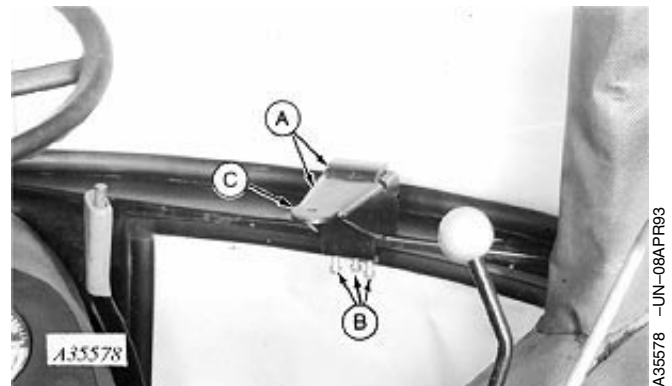
NOTE: A COMPUTER TRAK® 250 Monitor is shown for all tractor models. The instructions are the same for the COMPUTER TRAK® 150 Monitor.

COMPUTER TRAK is a trademark of Deere & Company.

AG,OUO1074,850 -19-01MAR00-1/1

30-55 Series Utility Tractors—Console Installation

1. Assemble brackets (A) and attach to window ledge with cap screws (B).
2. Place rubber washer (C) over hole.
3. Attach monitor to bracket.
4. Install monitor harness and radar harness into grommet.

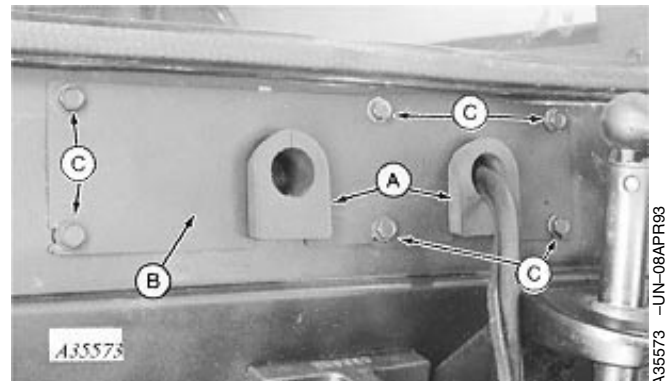


A—Brackets
B—Cap Screws
C—Rubber Washer

AG,OUO1074,851 -19-01MAR00-1/3

5. Install grommets (A) into rear plate (B) as illustrated.
6. Attach rear plate to cab with six 5/16 x 7/8 in. screws (C).

A—Grommets
B—Rear Plate
C—Screws



Continued on next page

AG,OUO1074,851 -19-01MAR00-2/3



A—Harness

7. Install monitor harness (A) as illustrated.
8. Connect monitor power harness to 12 volt power source. If tractor is equipped with a 2-pin

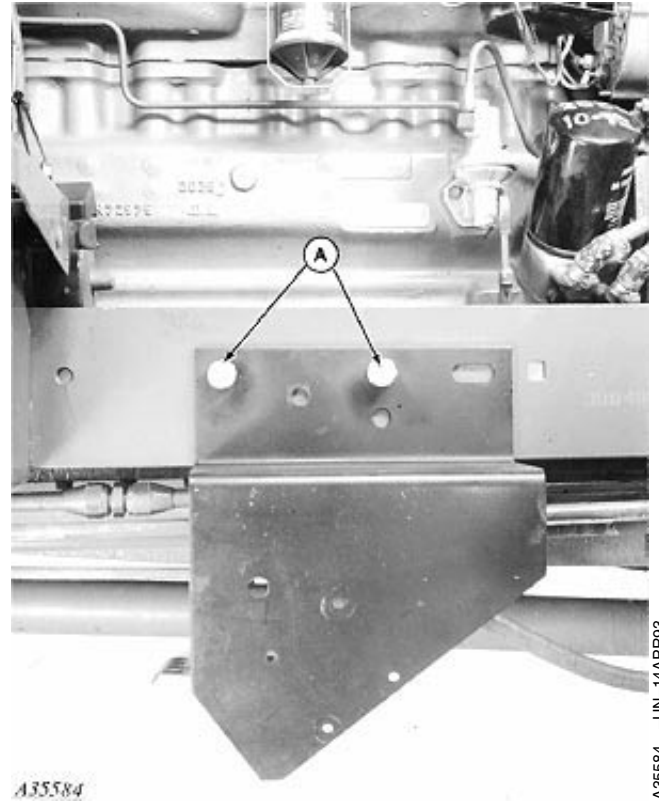
convenience outlet, order AA37254 to convert 2-pin to a 3-pin outlet. If tractor is not equipped with a convenience outlet, order AA37247.

AG,OUO1074,851 -19-01MAR00-3/3

30—55 Series Utility Tractor—Radar and Bracket Installation

1. Install two 5/8 x 1-1/2 in. cap screws (A) in right-hand engine rail.
2. Install radar mounting bracket on cap screws with lock washers and nuts as illustrated.

A—Cap Screws



A35584 -UN-14APR93

AG,OUO1074,852 -19-01MAR00-1/2

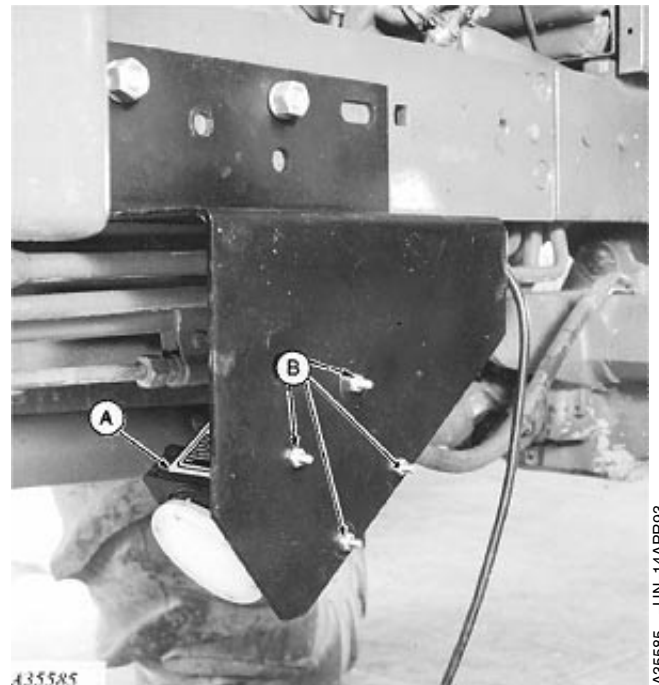


CAUTION: Avoid looking directly into the sensor face of radar to prevent possible eye damage from microwave signal emitted from radar sensor.

NOTE: Be certain radar unit is mounted to bracket with serial number plate facing up.

3. Attach radar unit (A) to inside of mounting bracket with four 1/4 x 4 in. cap screws (B), flat washers and lock nuts. (washers under head of cap screws against radar unit).
4. Route radar cable toward rear axle and connect to power module lead.

A—Radar Unit
B—Cap Screws



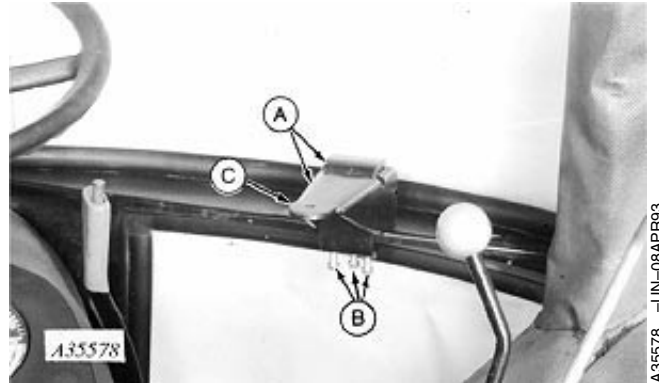
A35585 -UN-14APR93

AG,OUO1074,852 -19-01MAR00-2/2

30-60 Series Row Crop Tractors (with Cab)— Console Installation

NOTE: For open station tractors see 30—60 Series Open Station Tractors Console Installation, this group.

1. Assemble monitor brackets (A) together and attach to window ledge with cap screws (B).
2. Place rubber washer (C) over hole.
3. Attach monitor to bracket.
4. Install monitor harness and radar harness into grommet.

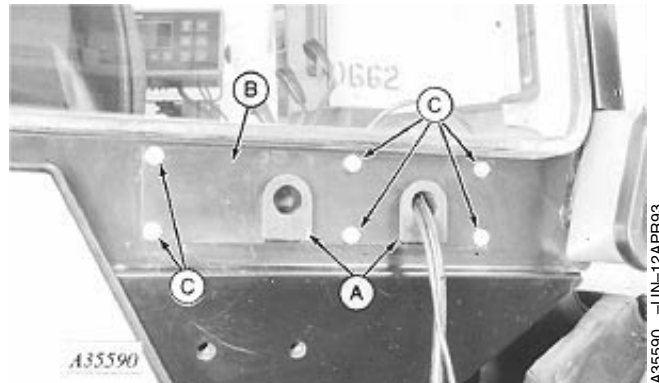


A—Brackets
B—Cap Screws
C—Rubber Washer

AG,OUO1074,853 -19-01MAR00-1/8

5. Install grommets (A) into rear plate (B) as illustrated.
6. Attach plate to cab with six 5/16 x 7/8 in. screws (C).

A—Grommets
B—Rear Plate
C—Screws



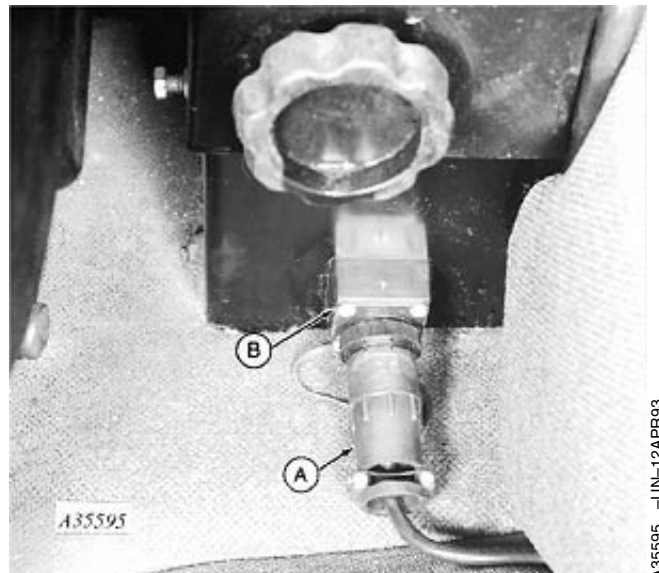
AG,OUO1074,853 -19-01MAR00-2/8

NOTE: If tractor is equipped with a 2-pin convenience outlet, order AA37254 to convert 2-pin to a 3-pin outlet.

If tractor is not equipped with a convenience outlet, order AA37247.

7. Carefully push monitor power connector (A) into convenience outlet (B) and turn collar clockwise.

A—Monitor Power Connector
B—Convenience Outlet

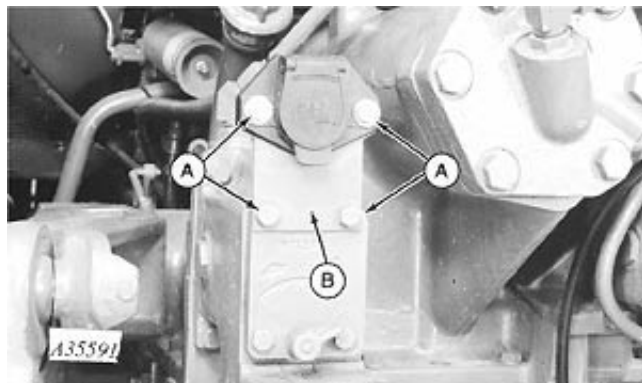


Continued on next page

AG,OUO1074,853 -19-01MAR00-3/8

8. Remove four cap screws (A), two nuts and SAVE for reuse.
9. Remove connector mounting plate (B) and DISCARD.

A—Cap Screws
B—Mounting Plate

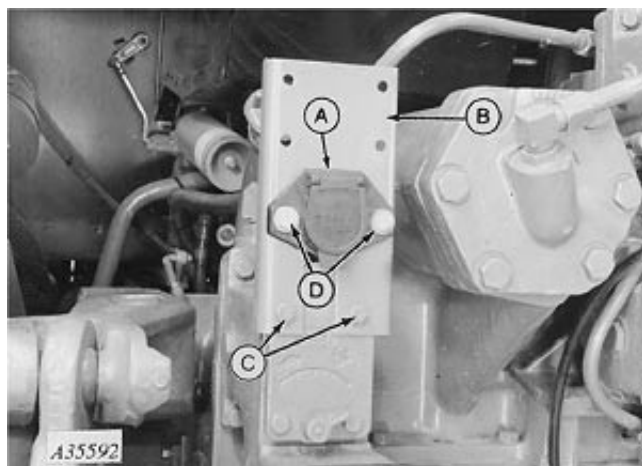


AG,OUO1074,853 -19-01MAR00-4/8

A35591 -UN-12APR93

10. Install harness connector (A) through slot in bracket (B).
11. Mount bracket (B) (legs to front) to tractor SCV with two cap screws (C) previously removed.
12. Install two cap screws (D) and nuts previously removed through connector (A) to bracket (B).

A—Harness Connector
B—Bracket
C—Cap Screws
D—Cap Screws

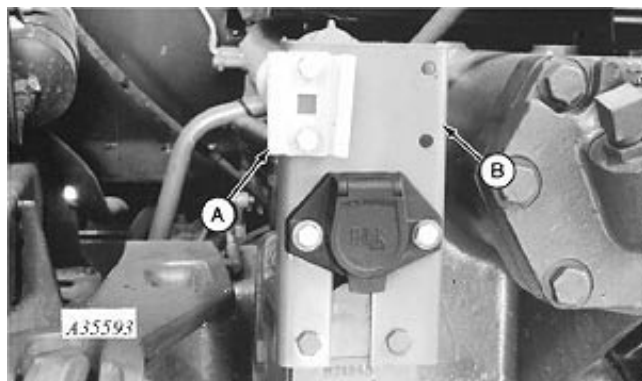


AG,OUO1074,853 -19-01MAR00-5/8

A35592 -UN-19APR93

13. Install socket (A) to connector bracket (B) with two M8 x 16 cap screws and M8 nuts.

A—Socket
B—Connector Bracket



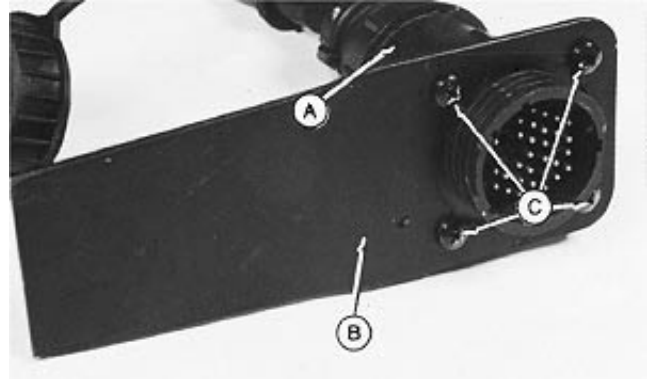
Continued on next page

AG,OUO1074,853 -19-01MAR00-6/8

A35593 -UN-12APR93

14. Attach monitor harness connector (A) to mounting spade (B) using four self-tapping screws (C) provided with monitor.

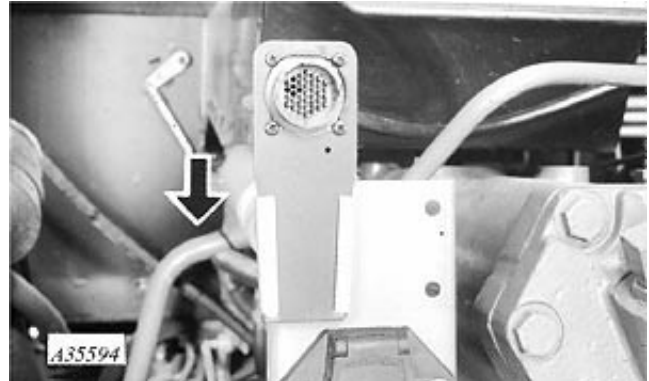
A—Harness Connector
B—Mounting Spade
C—Self-tapping Screws



H45416 -UN-02DEC92

AG,OUO1074,853 -19-01MAR00-7/8

15. Insert monitor spade into socket.



A35594 -UN-12APR93

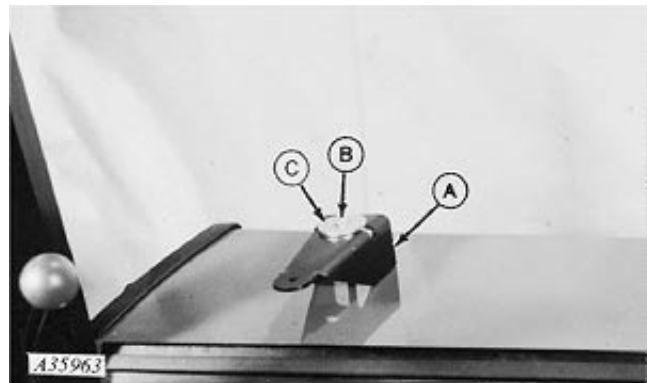
AG,OUO1074,853 -19-01MAR00-8/8

30—60 Series Open Station Tractors— Console Installation

1. Drill hole in right fender and attach bracket (A) with 3/8 x 3-1/2 in. cap screw (B) and 0.391 x 2 x 0.22 in. washer (C) and 3/8 in. nut.

Order from Parts:

A40983	Mount
19H1912	Cap Screw, 3/8 x 3-1/2
24H1300	Washer, 0.391 x 2 x 0.22
14H1076	Nut, 3/8



A35963 -UN-17JUL93

A—Bracket
B—Cap Screw
C—Washer

Continued on next page

AG,OUO1074,854 -19-01MAR00-1/7

2. Attach monitor to bracket.

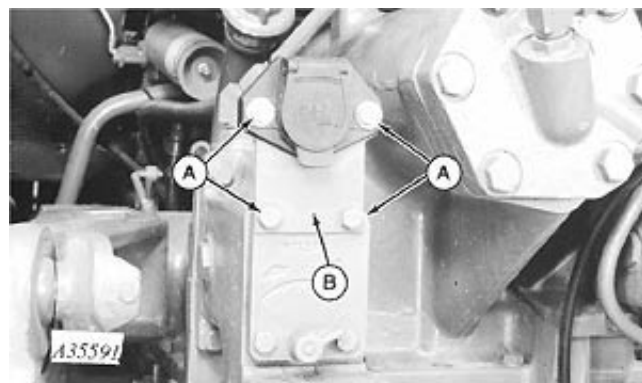


A35964 -UN-17JUL93

AG,OUO1074,854 -19-01MAR00-2/7

3. Remove four cap screws (A), two nuts and SAVE for reuse.
4. Remove connector mounting plate (B) and DISCARD.

A—Cap Screws
B—Mounting Plate

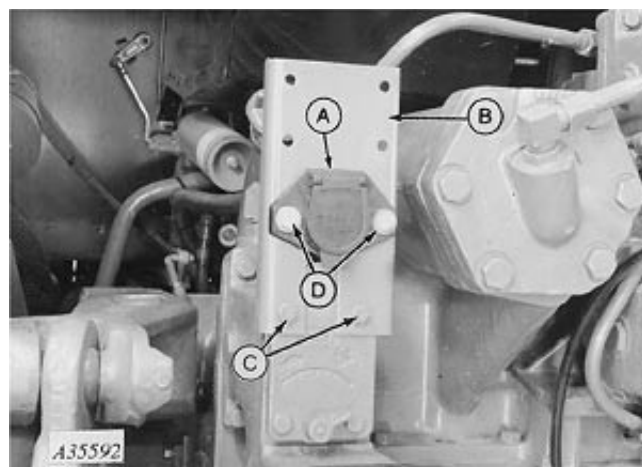


A35591 -UN-12APR93

AG,OUO1074,854 -19-01MAR00-3/7

5. Install harness connector (A) through slot in bracket (B).
6. Mount bracket (B) (legs to front) to tractor SCV with two cap screws (C) previously removed.
7. Install two cap screws (D) and nuts previously removed through connector (A) to bracket (B).

A—Connector, Harness
B—Bracket
C—Cap Screws
D—Cap Screws



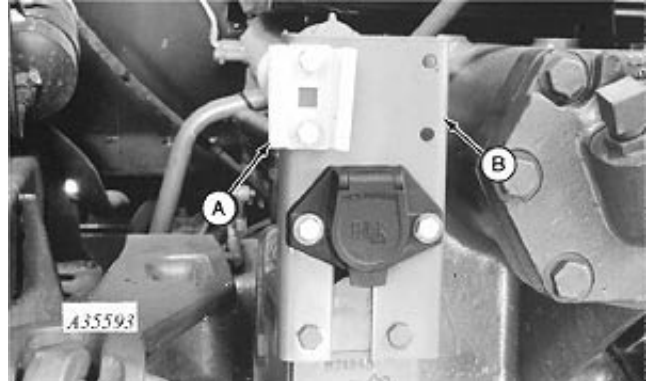
A35592 -UN-19APR93

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AG,OUO1074,854 -19-01MAR00-4/7

8. Install socket (A) to connector bracket (B) with two M8 x 16 cap screws and M8 nuts.

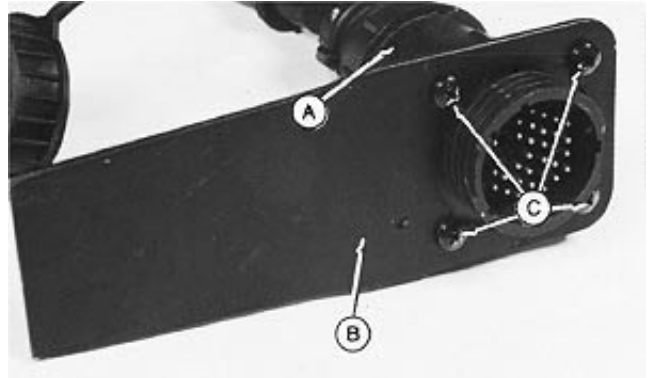
A—Socket
B—Connector Bracket



AG,OUO1074,854 -19-01MAR00-5/7

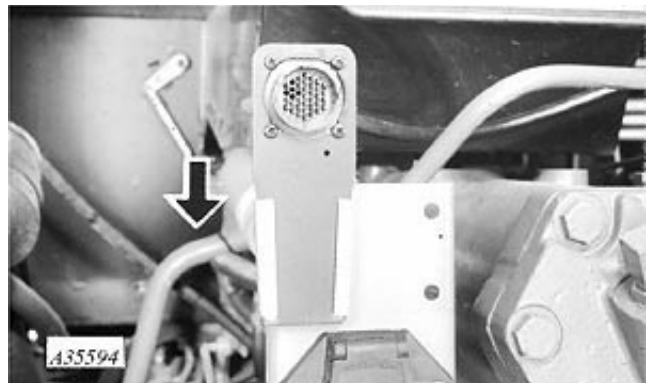
9. Attach monitor harness connector (A) to mounting spade (B) using four self tapping screws (C) provided with monitor.

A—Harness Connector
B—Mounting Spade
C—Self-tapping Screws



AG,OUO1074,854 -19-01MAR00-6/7

10. Insert mounting spade into socket.
11. Connect monitor power harness to 3-pin convenience outlet. If tractor is equipped with a 2-pin outlet, order AA37254 to convert 2-pin outlet to a 3-pin outlet. If tractor is not equipped with a convenience outlet, order AA37247.



AG,OUO1074,854 -19-01MAR00-7/7

Install Radar Signal Adapter Harness—30 and 60 Series Tractors

NOTE: This harness is used when existing tractor radar will supply signal to monitor and to tractor instrumentation. If tractor is not equipped with radar and a planter radar will be installed, go to “30-60 Series Row Crop Tractors—Radar and Bracket Installation”.

1. Disconnect radar lead from instrumentation radar lead.

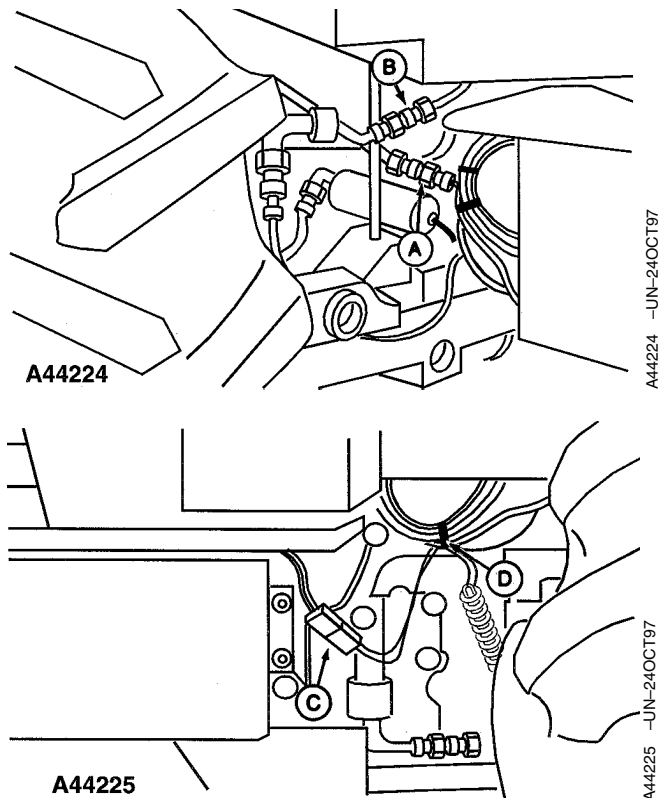
OM61890,90C -19-28OCT97-1/2

2. Connect one short lead of adapter harness to radar lead (A) and other short lead from adapter harness to SEEDSTAR™ radar lead (B).
3. Route other end of adapter harness (C) and connect to instrumentation input lead.

IMPORTANT: Make certain harness cannot come in contact with moving parts and linkages.

4. Loop excess harness and secure to tractor with tie straps (D).

A—Radar Lead
B—Radar Lead
C—Adapter Harness
D—Tie Straps

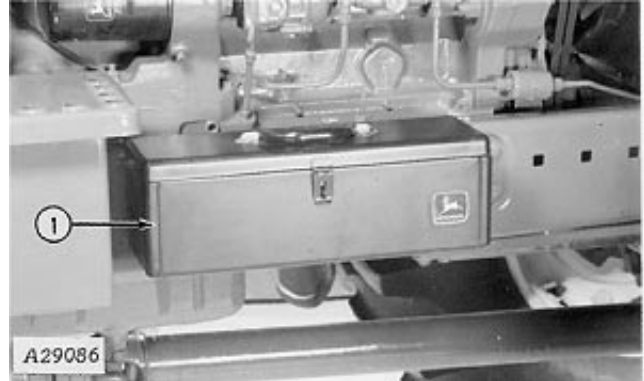


SEEDSTAR is a trademark of Deere & Company.

OM61890,90C -19-28OCT97-2/2

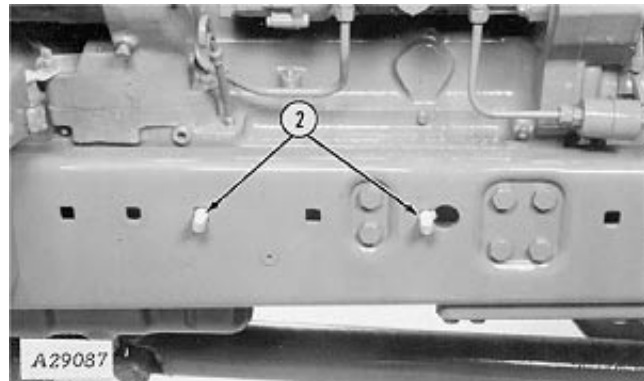
30-60 Series Row Crop Tractors—Radar and Bracket Installation

1. Remove toolbox and mounting bracket from right-hand side of tractor.



AG,OUO1074,855 -19-01MAR00-1/4

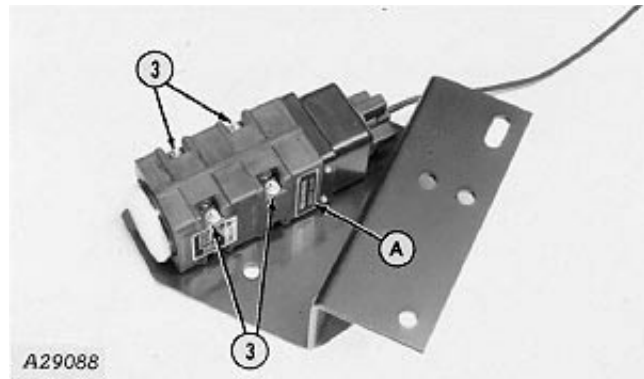
2. Insert 5/8 x 1-1/2 in. cap screws in holes as shown.



AG,OUO1074,855 -19-01MAR00-2/4

3. Attach radar unit to mounting plate with 1/4 in. cap screws, washers and lock nuts (do not overtighten). Be certain radar unit is mounted on plate so serial number plate (A) is facing up when plate is attached to tractor.

A—Serial Number Plate



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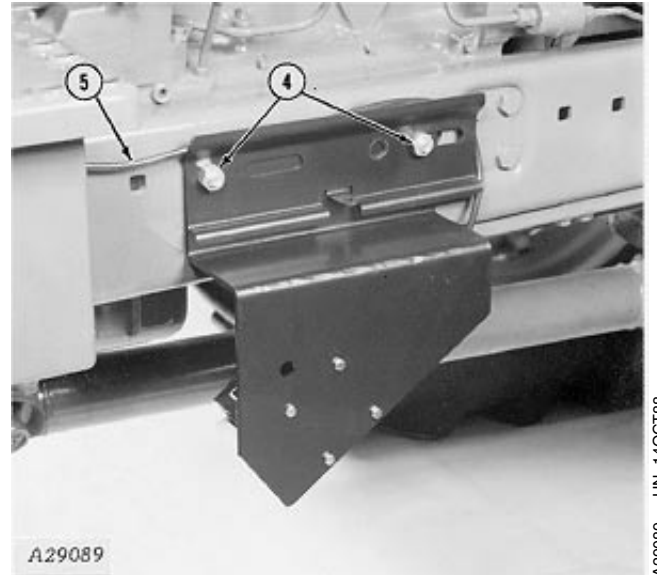
AG,OUO1074,855 -19-01MAR00-3/4

NOTE: 55 and 60 Series Tractors have spacers on toolbox mounting hardware. Install radar bracket against side frame, then spacers and toolbox mounting bracket (in this order).

4. Install radar plate and toolbox mounting bracket on cap screws and secure with lock washers and nuts.
5. Route cable back toward rear axle and connect to console radar lead.

CAUTION: Avoid looking directly into the sensor face to prevent possible eye damage from microwave signal emitted from radar sensor.

6. Fasten lead away from moving parts with tie straps.
7. Install toolbox on mounting bracket.



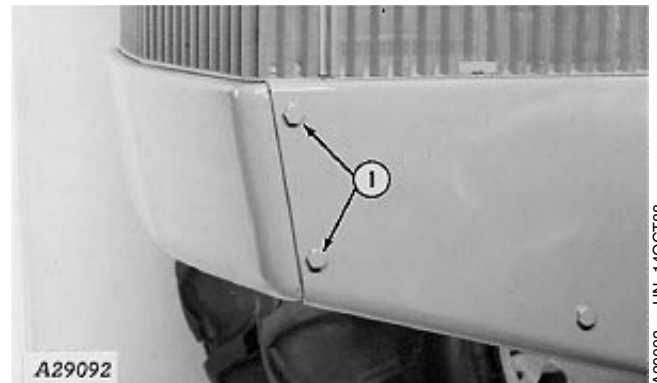
A29089 -UN-14OCT88

AG,OUO1074,855 -19-01MAR00-4/4

30-50 Series Four-Wheel Drive Tractors— Radar and Bracket Installation

NOTE: Monitor console installation procedure is the same as 30—60 Series Row Crop Tractors.

1. Remove front two cap screws from left-hand side of tractor.

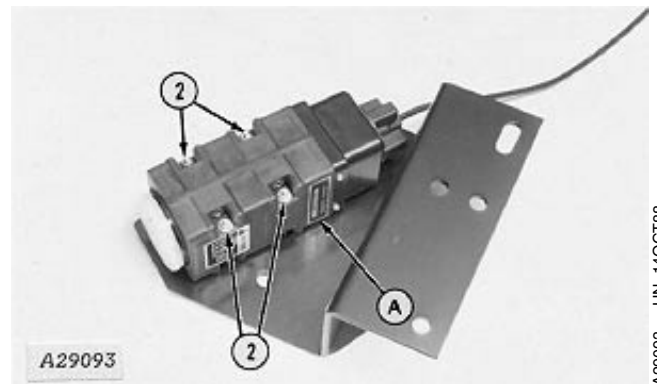


A29092 -UN-14OCT88

AG,OUO1074,856 -19-01MAR00-1/5

2. Attach radar unit to mounting plate with 1/4 x 4 in. cap screws, washers and lock nuts (do not overtighten). Be certain radar unit is mounted on plate so serial number plate (A) is facing up when plate is attached to tractor.

A—Serial Number Plate

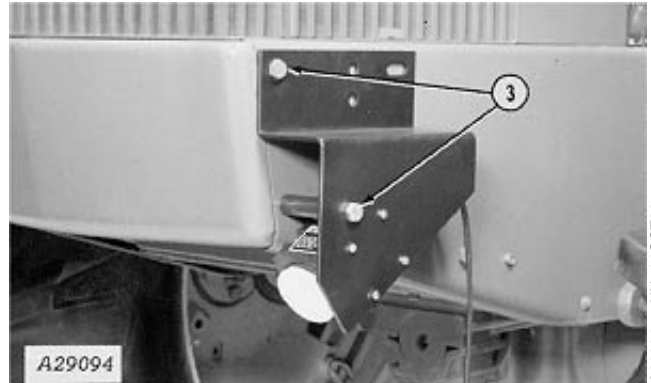


A29093 -UN-14OCT88

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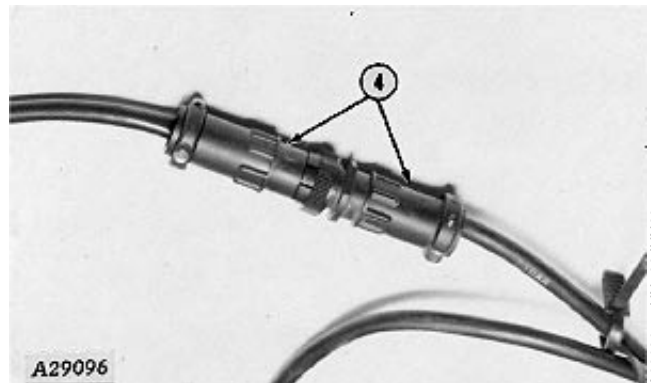
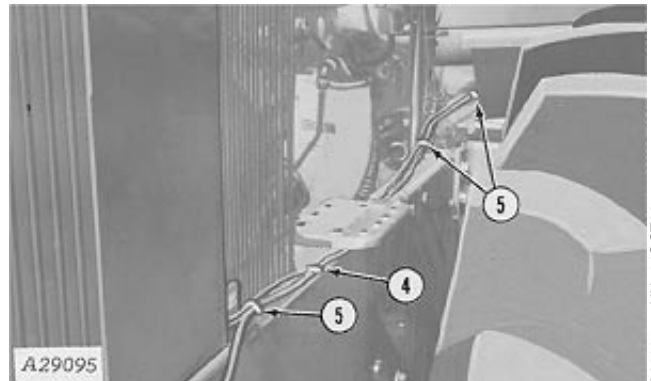
AG,OUO1074,856 -19-01MAR00-2/5

3. Attach mounting plate to tractor with one cap screw (removed in Step 1) and 5/8 in. cap screw and bushing.



AG,OUO1074,856 -19-01MAR00-3/5

4. Route cable back toward rear axle and connect to power module radar lead.
5. Fasten radar cable leads to tractor with tie straps.

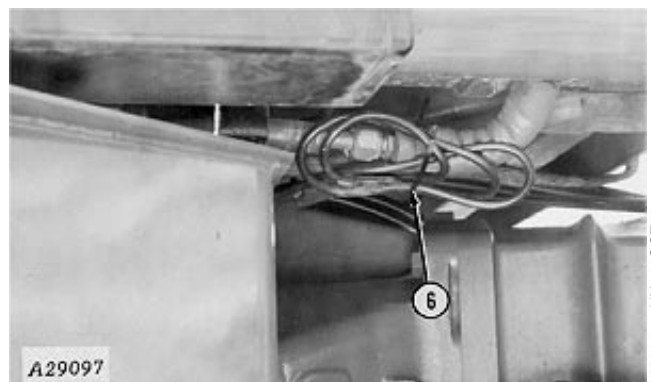


AG,OUO1074,856 -19-01MAR00-4/5



CAUTION: Avoid looking directly into the sensor face to prevent possible eye damage from the microwave signal emitted from radar sensor.

6. Loop and tie excess radar cable to tractor beneath SOUND-GARD® body with tie strap.



SOUND-GARD is a trademark of Deere & Company.

AG,OUO1074,856 -19-01MAR00-5/5

60-70 Series Four-Wheel Drive Tractors— Console Installation

1. Install bracket to inside of cab (Right-hand front near window) using two M10 x 25 cap screws (A).
2. Attach monitor to bracket making certain to install rubber washer on top of strap at mounting.

A—Cap Screws



AG,OUO1074,857 -19-01MAR00-1/5

NOTE: Early 60 Series 4WD have 2-pin convenience outlet Order (AA37254) to convert to 3-pin convenience outlet.

3. Connect monitor (A) to 3-pin convenience outlet.

A—Monitor

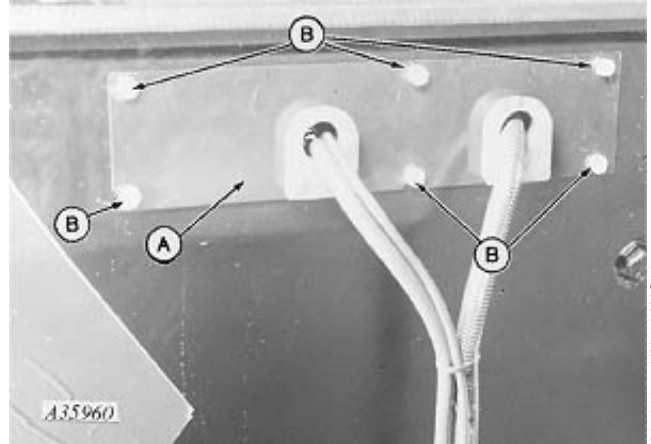


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AG,OUO1074,857 -19-01MAR00-2/5

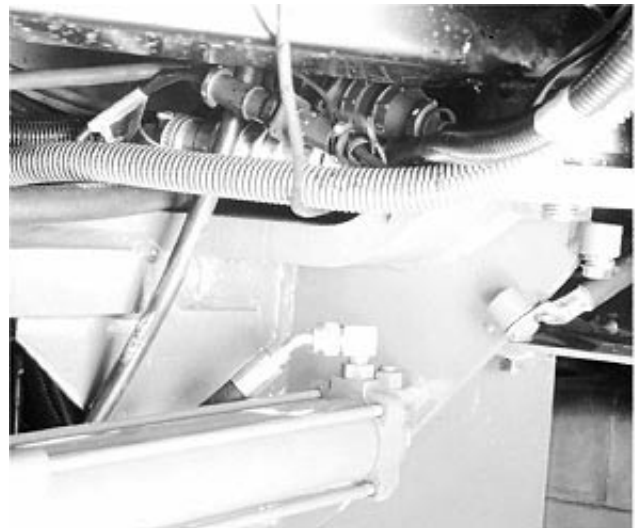
4. Install two grommets into plate (A), making certain plate openings are DOWN.
5. Attach plate (A) to tractor cab with six 5/16 x 7/8 in. screws (B).

A—Plate
B—Screws



AG,OUO1074,857 -19-01MAR00-3/5

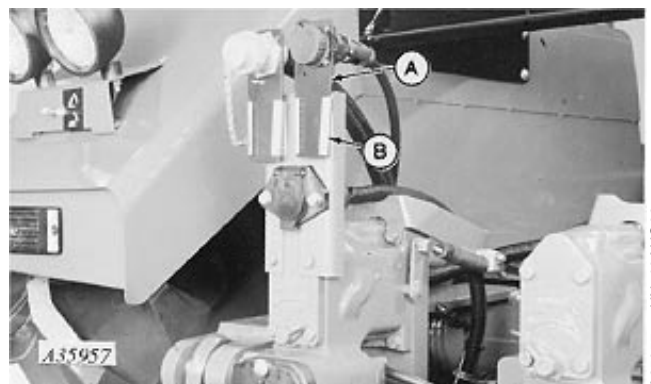
6. Route harness under cab. DO NOT let excess harness hang loose.
7. Connect extension harness to harness from cab. Fasten connectors under right-hand rear corner of cab with nylon ties as required.



AG,OUO1074,857 -19-01MAR00-4/5

8. Install harness connector mounting spade (A) into socket bracket (B).
9. Route extension harness down center of rear axle assembly toward rear wall of cab. Fasten harness with nylon ties as required.

A—Mounting Spade
B—Bracket



AG,OUO1074,857 -19-01MAR00-5/5

Install Radar Signal Adapter Harness—60 and 70 Series Tractors

NOTE: This harness is used when existing tractor radar will supply signal to monitor and to tractor instrumentation. If tractor is not equipped with radar and a planter radar will be installed, go to "Installation of Radar Bracket for 60 or 70 Series Four Wheel Drive Tractors".

1. Remove bell-shaped cover from back of radar sensor.

Continued on next page

OM61890,95H –19–28OCT97–1/2

2. Disconnect radar sensor harness (A) from sensor and connect one short lead (B) from adapter harness to radar sensor. Connect other short lead (C) to sensor harness (A). Make sure adapter harness connectors are fully seated against sensor connectors.

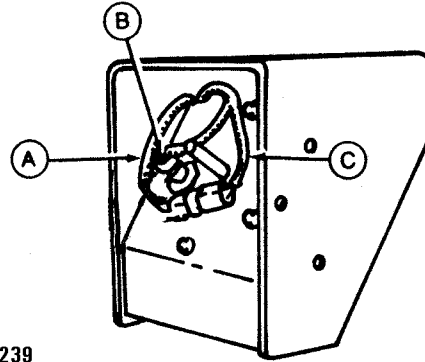
Reinstall cover to sensor.

3. Route adapter harness along hydraulic oil lines and secure with tie straps (D) as necessary. Keep away from moving parts and linkages.

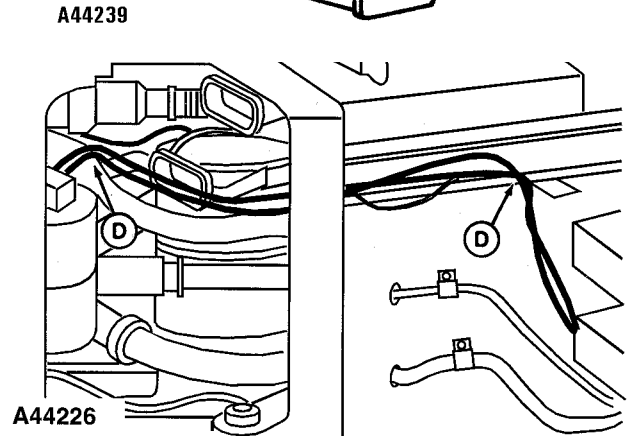
NOTE: Be sure to leave some slack in adapter harness at hinge area to prevent damage to harness when articulating tractor.

4. Connect adapter harness to COMPUTER TRAK® radar lead (E). Secure excess harness beneath body, as necessary, with tie straps.

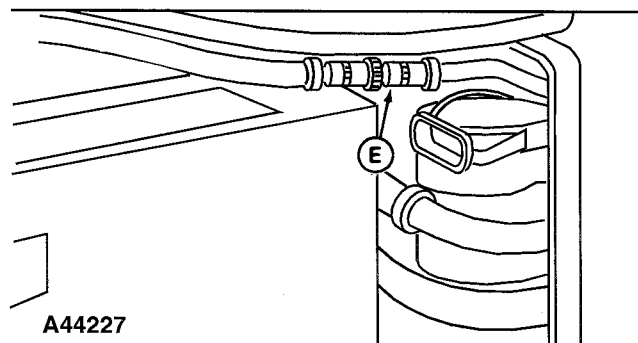
A—Radar Sensor Harness
 B—Short Lead
 C—Short Lead
 D—Sensor Harness
 E—COMPUTER TRAK™ Radar Lead



A44239 -UN-24OCT97



A44226 -UN-24OCT97



A44227 -UN-24OCT97

COMPUTER TRAK is a trademark of Deere & Company

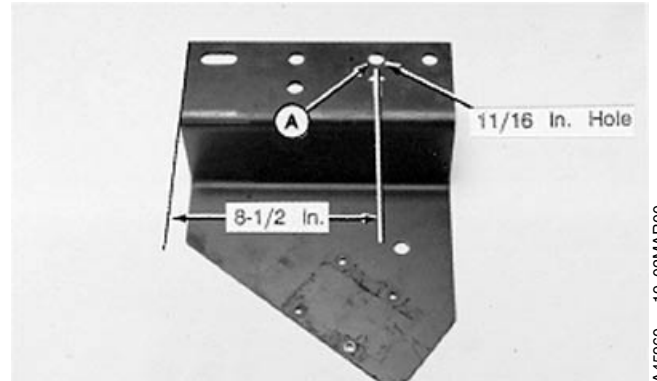
OM61890,95H -19-28OCT97-2/2

Modification and Installation of Radar Bracket (60 Series Four-Wheel Drive Tractors)

NOTE: The radar bracket needs a 17.5 mm (11/16 in.) hole added to allow bracket to bolt to the frame under the engine.

1. Mark center point as illustrated at (A) and drill 17.5 mm (11/16 in.) hole.

A—Center Point



A45960 -19-02MAR00

AG,OUO1074,858 -19-01MAR00-1/2

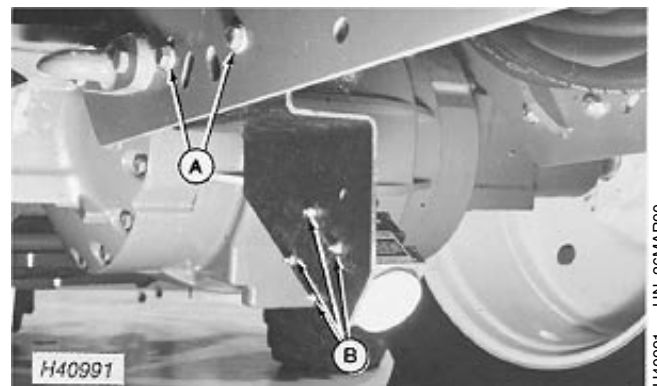
NOTE: Shift bracket so top of bracket is **LEVEL**.

2. Install bracket on tractor with two 5/8 x 2-1/2 in. cap screws, flat washers and nuts at (A) using the holes as illustrated.



CAUTION: Avoid looking directly into the sensor face of radar to prevent possible eye damage from microwave signal emitted from radar sensor.

3. Install radar unit on bracket, with serial number plate facing up with cap screws, washers and nuts (B).



H40991 -UN-26MAR90

A—Bracket Mounting Point
B—Cap Screws, Washers and Nuts

AG,OUO1074,858 -19-01MAR00-2/2

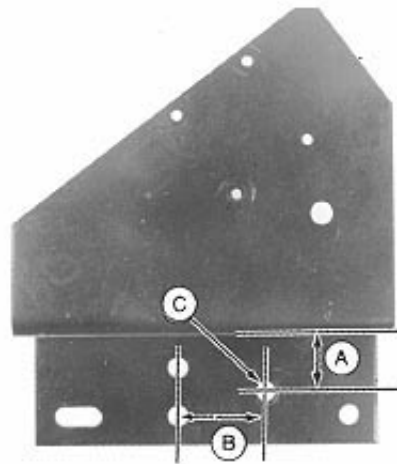
Modification and Installation of Radar Bracket (70 Series Four-Wheel Drive Tractors)

1. Mark center point from (A) and (B) as illustrated and drill 17.5 mm (11/16 in.) hole (C) in radar bracket.

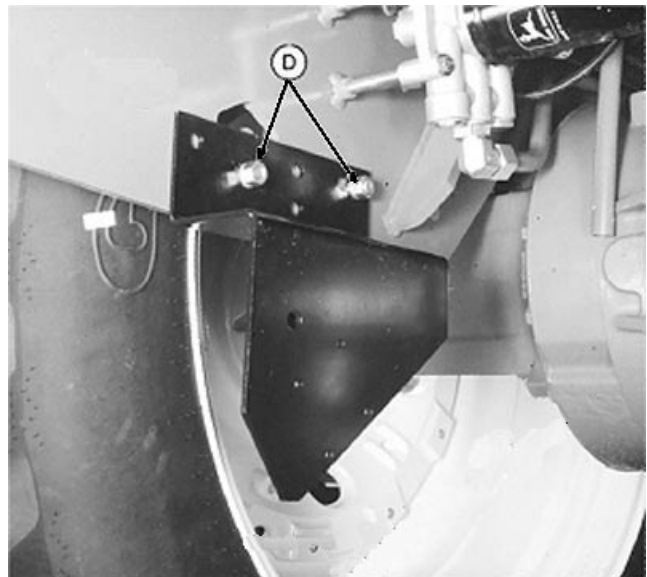
NOTE: Shift bracket until top is *LEVEL*.

2. Install bracket on tractor with two 5/8 x 1-1/2 in. bolts, lock washers and nuts (D) using holes as illustrated.

- A—Dimension, 98 mm (3-7/8 in.)
 B—Dimension, 45 mm (1-3/4 in.)
 C—Hole, 17.5 mm (11/16 in.)
 D—Bolts, Lock Washers, and Nuts



A35511 -UN-14APR93



A45954 -UN-01MAR00

Continued on next page

AG,OUO1074,859 -19-01MAR00-1/2

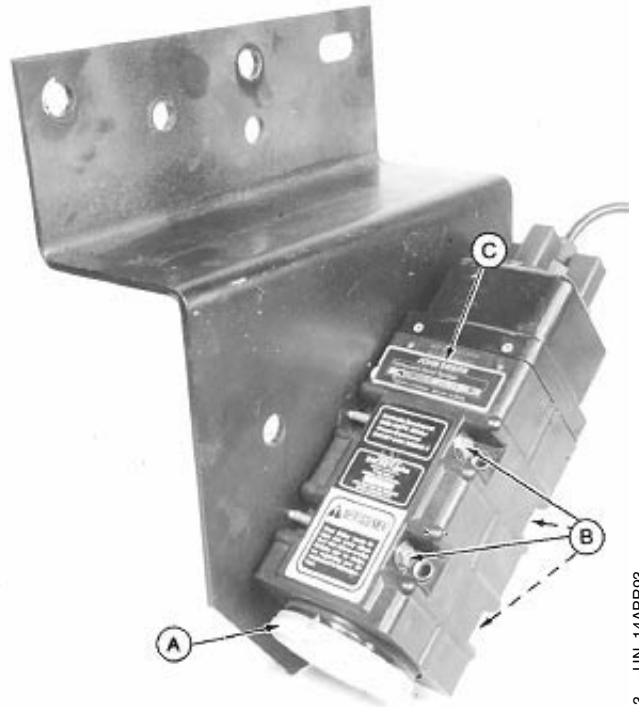


CAUTION: Avoid looking directly into the sensor face of radar to prevent possible eye damage from microwave signal emitted from radar sensor.

NOTE: Be certain radar unit is mounted on bracket with radar serial number plate (C) facing up.

3. Install radar unit (A) on inside of bracket with four 1/4 x 4 in. cap screws (B). (washers under head of cap screws against radar unit), and nuts.

A—Radar Unit
B—Cap Screws
C—Serial Number Plate



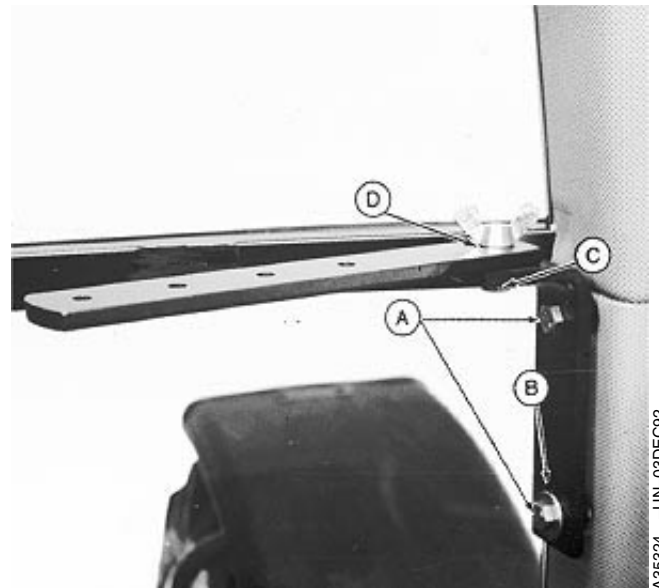
A35513 -UN-14APR93

AG.OUO1074,859 -19-01MAR00-2/2

6000 Series Tractors—Console Installation

1. Install mounting bracket (A) with two M10 x 20 screws with flat washer on slot (B).
2. Thread M10 x 30 bolt (C) into bracket and install monitor mounting strap with M10 wing nut (D).

A—Mounting Bracket
B—Slot
C—Bolt
D—Wing Nut



A35324 -UN-03DEC92

Continued on next page

AG.OUO1074,860 -19-01MAR00-1/7

3. Mount monitor console to monitor strap with threaded knob (A).

A—Knob



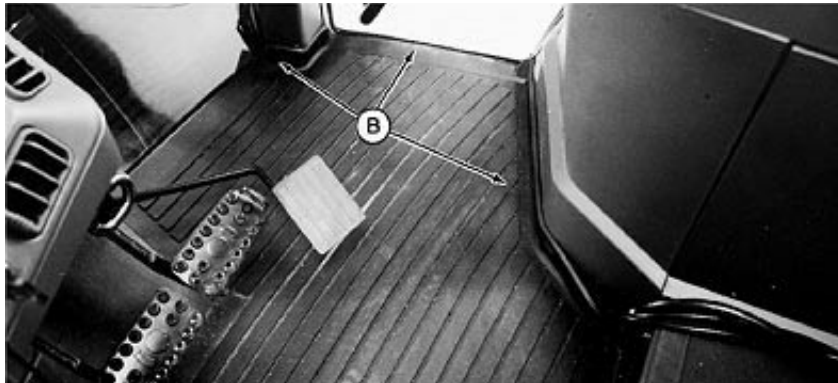
A35325 -UN-03DEC92

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AG,OUO1074,860 -19-01MAR00-2/7



9-Ft. Harness Illustrated



15-Ft. Harness Illustrated

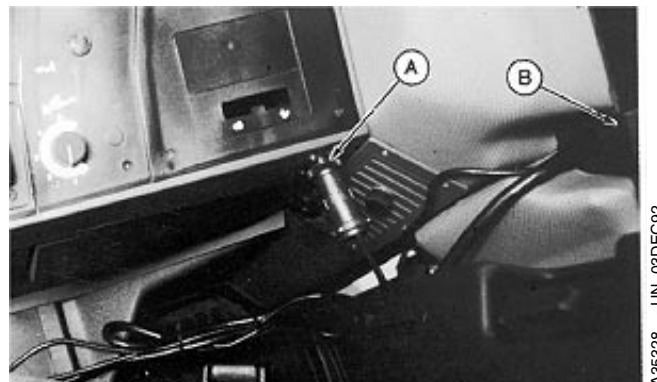
A—Door Gas Cylinder Anchor B—Harness Routing

4. (Monitors With 2.7 m (9 ft.) Harness) Tie harness to door gas cylinder anchor (A) and route along side of right-hand console.
5. (Monitors With 4.6 m (15 ft.) Harness) Route under floor mat along side of right-hand console as shown (B).

AG,OUO1074,860 -19-01MAR00-3/7

6. Connect power harness to rear convenience outlet (A).
7. (250 Monitor Only) Route main harness and radar harness through right-hand grommet (B).

**A—Rear Convenience Outlet
B—Grommet**



Continued on next page

AG,OUO1074,860 -19-01MAR00-4/7

8. Install connector mounting spade to monitor harness connector using four self tapping screws (A).

A—Self-tapping Screws

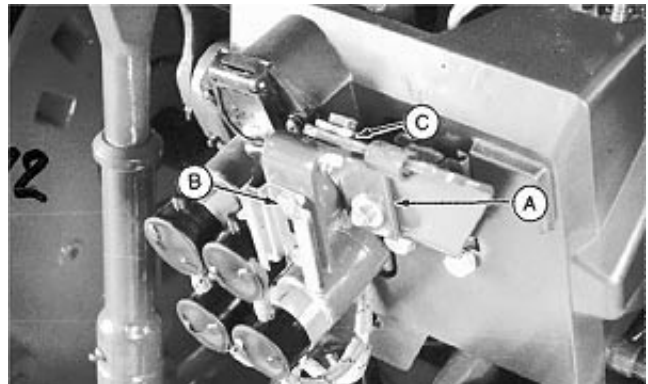


A35329 -UN-03DEC92

AG,OUO1074,860 -19-01MAR00-5/7

9. Install rear connector mounting bracket (A) to tractor bracket as shown.
10. Install bracket with hex head against socket (B).
11. Use large washer over large hole in tractor bracket (C).

A—Rear Connector Mounting Bracket
B—Socket
C—Tractor Bracket



A35330 -UN-03DEC92

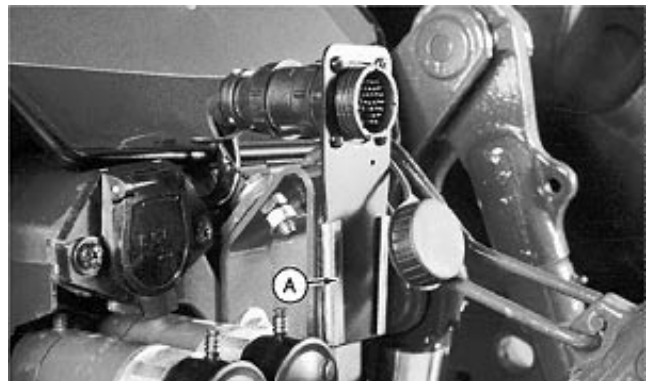
AG,OUO1074,860 -19-01MAR00-6/7

12. Install monitor connector with spade into socket (A).
13. Coil and band excess harness behind cab.
14. Connect radar harness from radar to monitor radar harness outside cab. Keep radar connector outside cab for easy monitor removal.

NOTE: Put harness under SMV first, then loop harness and install spade in socket.

15. Position grommet on harness and caulk with rubber sealant.

A—Socket



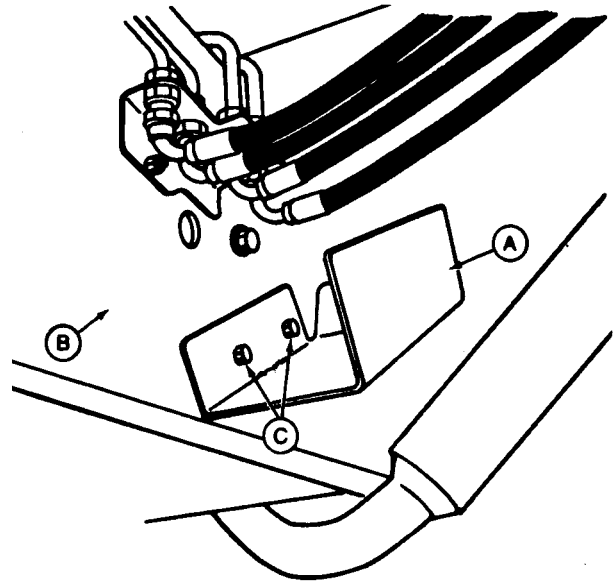
A35331 -UN-03DEC92

AG,OUO1074,860 -19-01MAR00-7/7

6000 Series Tractors with Exhaust Attached to Cab—Radar and Bracket Installation

1. Mount radar bracket (A) to frame (B) with two M12 x 35 cap screws (C). Use M12 nuts provided if tractor frame holes are not threaded.
2. Tighten all mounting hardware.

A—Radar Bracket
B—Frame
C—Cap Screws



A35492 -UN-03FEB93

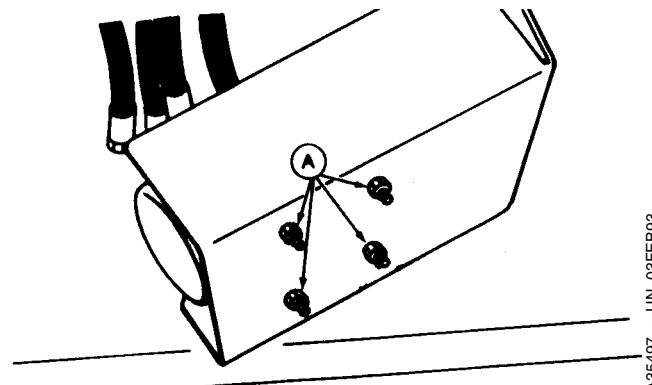
AG,OUO1074,861 -19-01MAR00-1/2

3. Radar must be mounted with serial number tag facing up. Attach with four 1/4 x 4 in. cap screws, four washers and four lock nuts (A). Washers are installed between bracket and lock nuts.
4. Route harness past cab side tipping hinge to rear of cab and connect to radar power harness. Secure with plastic self locking bands.



CAUTION: Avoid looking directly into the sensor face of radar to prevent possible eye damage from microwave signal emitted from radar sensor.

5. Nominal calibration for this radar installation is 7776. Radar points 7 degrees to side to miss rear tire. Calibration is less than other radars at 7836.



A—Lock Nuts

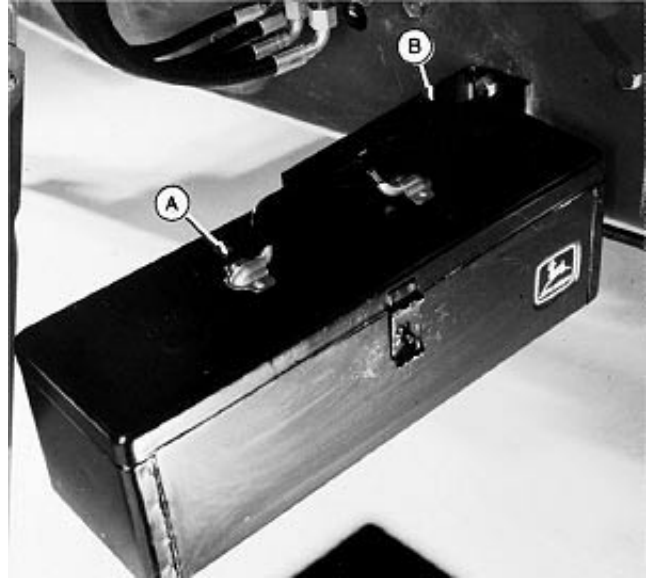
A35497 -UN-03FEB93

AG,OUO1074,861 -19-01MAR00-2/2

6000 Series Tractors with Exhaust on Hood— Radar and Bracket Installation

1. Remove toolbox (A) and disassemble bracket (B).

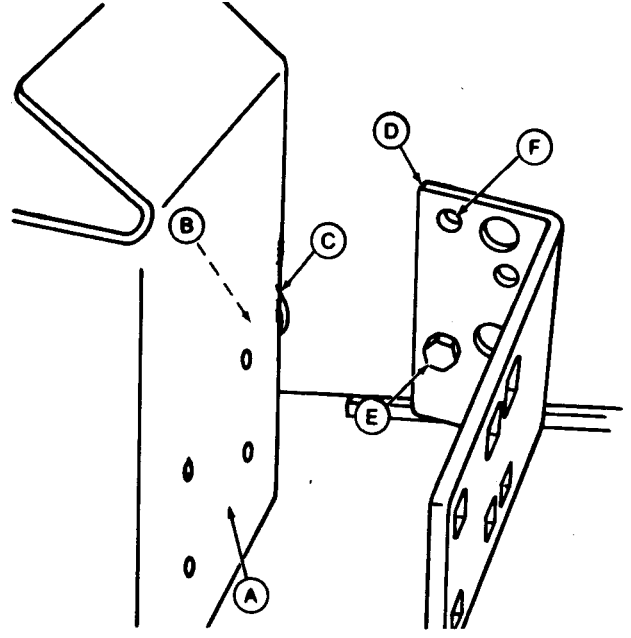
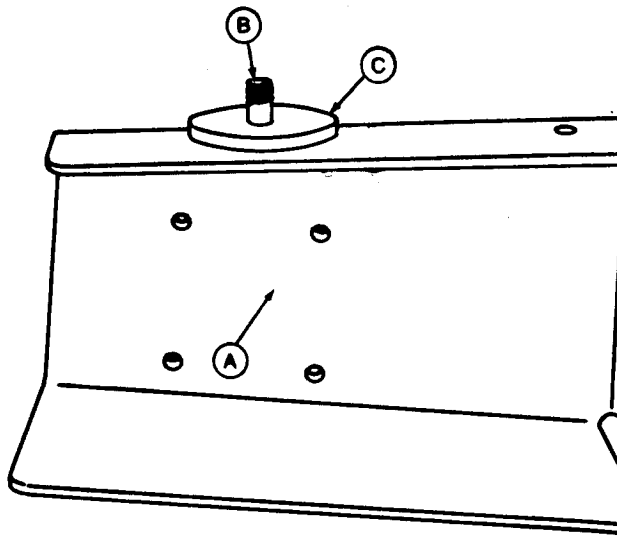
A—Toolbox
B—Bracket



H45444 -UN-02DEC92

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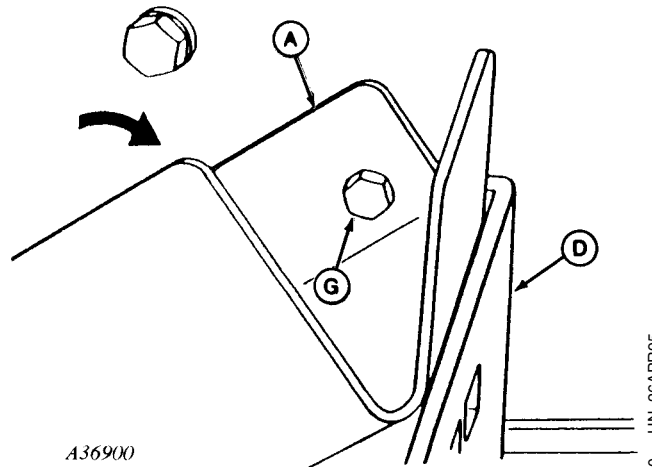
AG,OUO1074,862 -19-01MAR00-1/4



NOTE: Use M12 nuts provided if tractor frame holes are not threaded.

2. Install radar mounting bracket (A) with one M12 x 35 cap screw (B) and spacer (C). (Do not tighten cap screw.)
3. Install tool box bracket (D) with M12 x 35 cap screw (E). Line up top hole (F) with hole in tractor frame as illustrated.
4. Rotate radar mounting bracket (A) and line up holes in both brackets and insert M12 x 35 cap screw (G).

TIGHTEN ALL MOUNTING HARDWARE.



- A—Mounting Bracket
- B—Cap Screw
- C—Spacer
- D—Tool Box Bracket
- E—Cap Screw
- F—Top Hole
- G—Cap Screw

Continued on next page

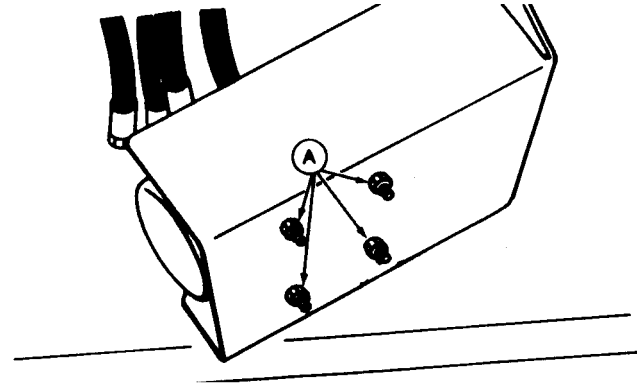
AG,OUO1074,862 -19-01MAR00-2/4

5. Radar must be mounted with serial number tag facing up. Attach with four 1/4 x 4 in. cap screws, four washers and four lock nuts (A). Washers are installed between bracket and lock nuts.
6. Route harness past cab side tipping hinge to rear of cab and connect to radar power harness. Secure with plastic self locking bands.



CAUTION: Avoid looking directly into the sensor face of radar to prevent possible eye damage from microwave signal emitted from radar sensor.

7. Nominal calibration for this radar installation is 7776. Radar points 7 degrees to side to miss rear tire. Calibration is less than other radars at 7836.



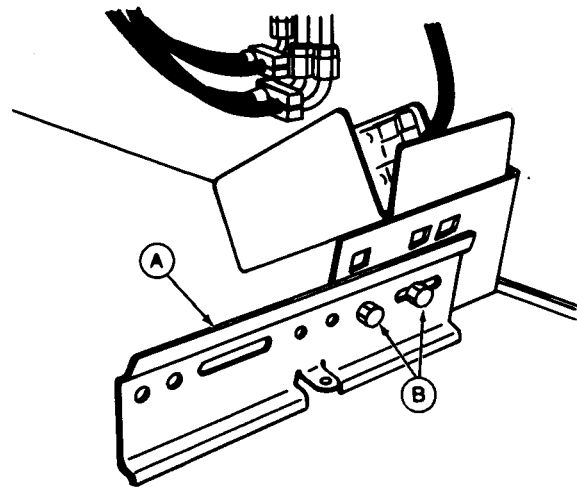
A—Lock Nuts

A35497 -UN-03FEB93

AG.OUO1074,862 -19-01MAR00-3/4

8. Install tool box bracket (A) as shown using existing hardware (B) and install tool box.

A—Bracket
B—Existing Hardware

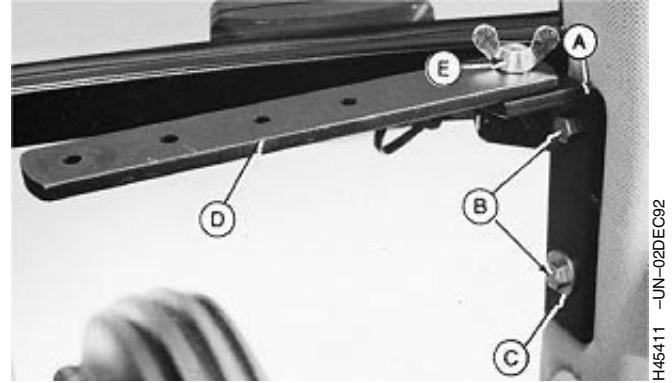


A35496 -UN-03FEB93

AG.OUO1074,862 -19-01MAR00-4/4

7000 Series Tractors—Console Installation

1. Install “L” bracket (A) on front post with two M10 x 20 cap screws (B) with flat washer (C) on lower cap screw.
2. Install monitor strap (D) with M10 x 30 carriage bolt and wing nut (E).
3. Attach monitor to strap making certain to install rubber washer on top of strap at mounting.

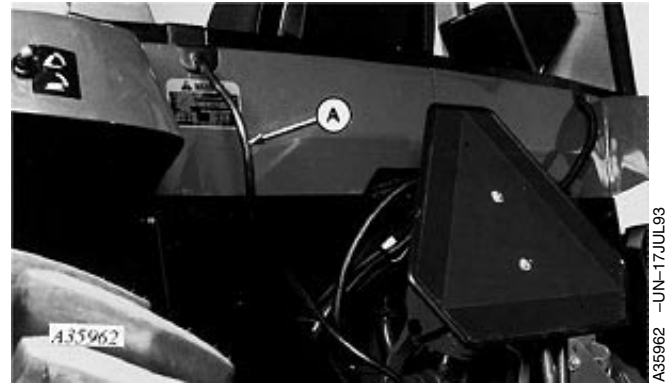


A—“L” Bracket
B—Cap Screws
C—Flat Washer
D—Strap
E—Wing Nut

AG,OUO1074,863 -19-01MAR00-1/7

4. Route monitor harness (A) through left-hand grommet as illustrated.

A—Monitor Harness



AG,OUO1074,863 -19-01MAR00-2/7

NOTE: Install monitor into rear outlet if tractor is NOT equipped with front outlet.

5. (Tractors With Front Convenience Outlet Only) Install monitor into front outlet (A).

A—Front Outlet

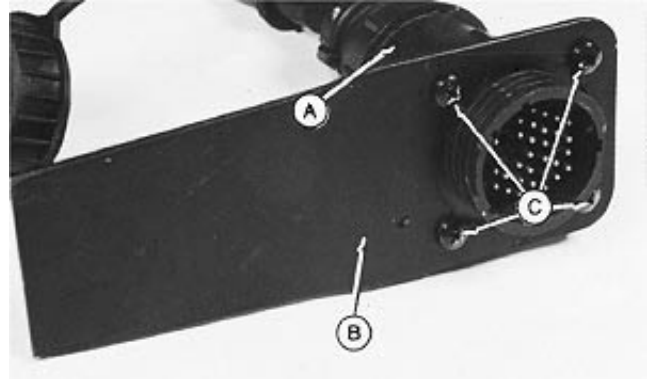


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AG,OUO1074,863 -19-01MAR00-3/7

6. Attach harness connector (A) to mounting spade (B) using four self tapping screws (C).

A—Harness Connector
B—Mounting Spade
C—Self-tapping Screws

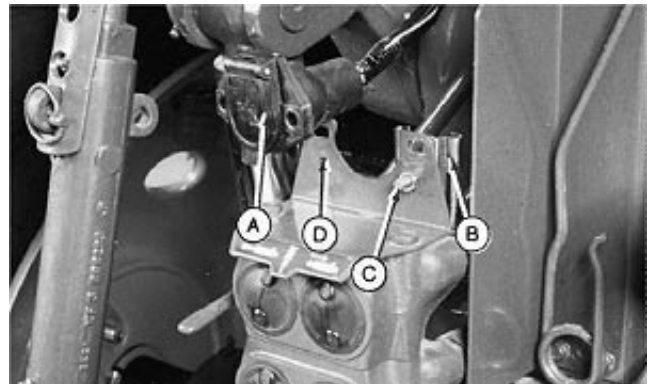


H45416 -UN-02DEC92

AG,OUO1074,863 -19-01MAR00-4/7

7. Remove two cap screws securing 7-pin connector (A) and discard.
8. Install socket (B) with carriage bolt and nut (C). Do NOT tighten until all hardware is in place.
9. If folding planter control is used, add second socket to opposite side of bracket (D).

A—7-Pin Connector
B—Socket
C—Carriage Bolt
D—Bracket

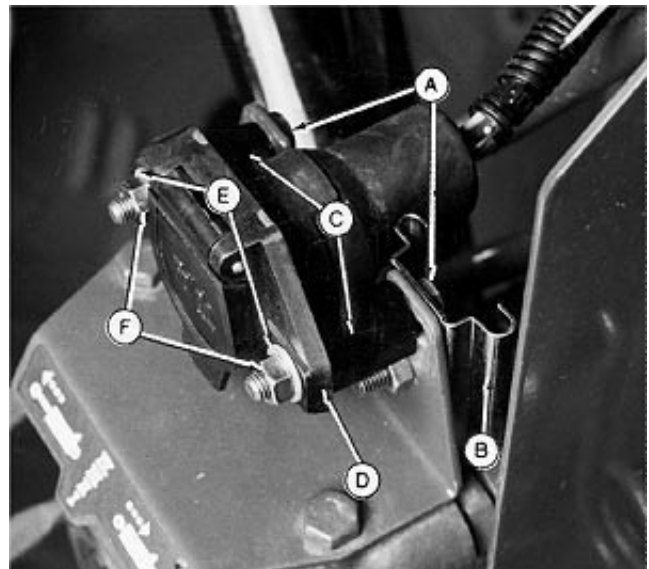


H45417 -UN-02DEC92

AG,OUO1074,863 -19-01MAR00-5/7

10. Install cap screws (A) in top hole of socket (B).
11. Install spacers (C), 7-pin connector (D), flat washers (E) and nuts (F). **TIGHTEN HARDWARE.**

A—Cap Screws
B—Socket
C—Spacers
D—7-Pin Connector
E—Flat Washers
F—Nuts

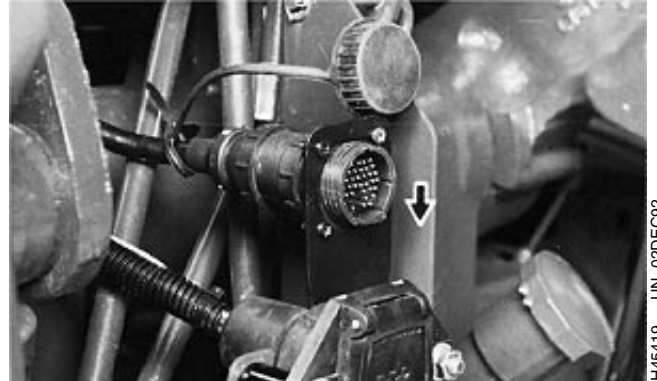


H45418 -UN-02DEC92

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AG,OUO1074,863 -19-01MAR00-6/7

12. Install spade into socket and push down to seat.



AG,OUO1074,863 -19-01MAR00-7/7

H45419 -UN-02DEC92

Install Radar Signal Adapter Harness—7000 Series Tractors Produced After January 1993

NOTE: This harness is used when existing tractor radar will supply signal to monitor and to tractor instrumentation. If tractor is not equipped with radar and a planter radar will be installed, go to "Install Radar".

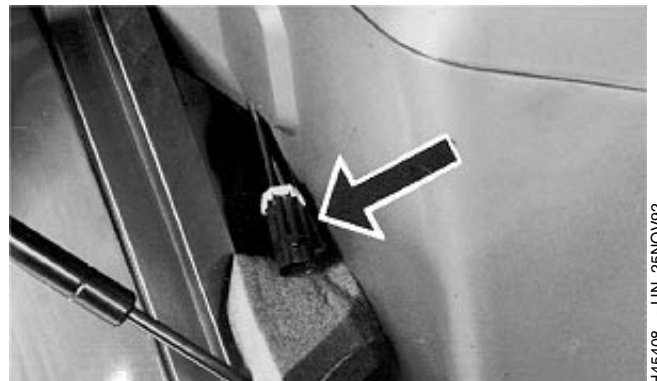
1. Pull back foam strip and find tractor connector behind right-hand console wrap around.



H45407 -UN-25NOV92

OM61890,100B -19-28OCT97-1/2

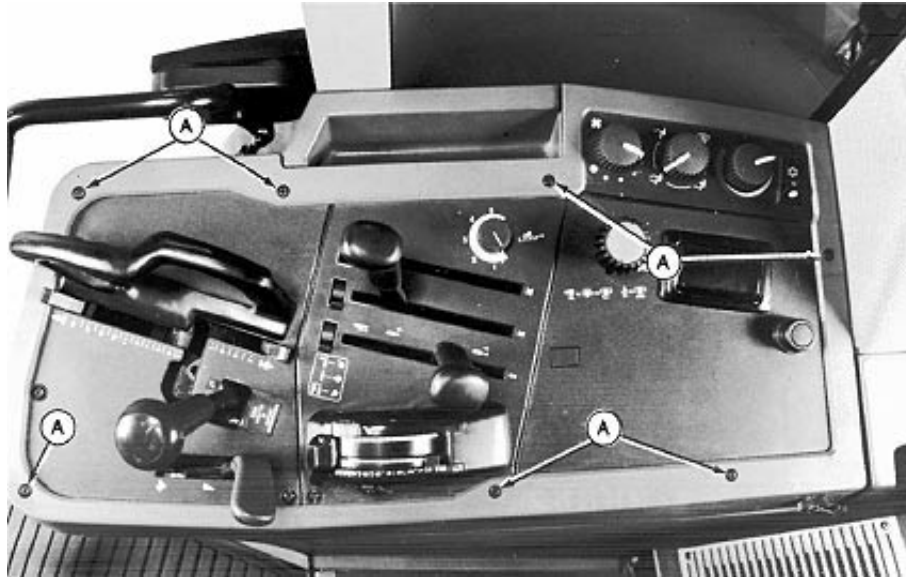
2. Pull connector out from behind console. Connect adapter harness to this 2 pin plug.
3. Position connector near the floor and tuck excess in between console and upholstery.
4. Connect adapter harness to 2-pin plug and to monitor radar connector.



H45408 -UN-25NOV92

OM61890,100B -19-28OCT97-2/2

Install Radar Signal Adapter Harness 7000 Series Tractors Produced Prior to January 1993



A—Screws

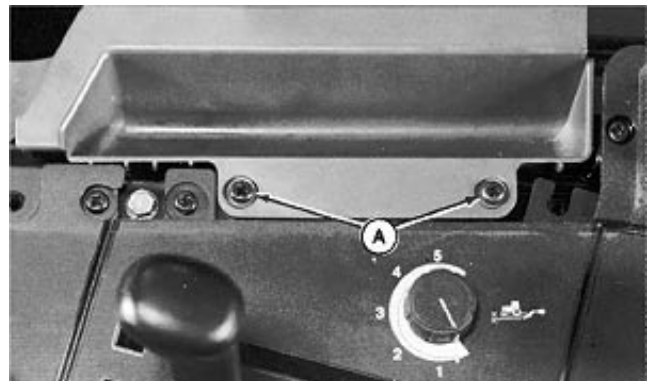
NOTE: This harness is used when existing tractor radar will supply signal to monitor and to tractor instrumentation. If tractor is not equipped with radar and a planter radar will be installed, go to "Install Radar".

1. Remove the seven screws (A) from console trim ring and remove trim ring.
2. Tip console trim ring to gain access.

HX,A53033,D -19-04DEC92-1/4

3. Remove the two screws (A) from pencil tray and remove tray.

A—Screws



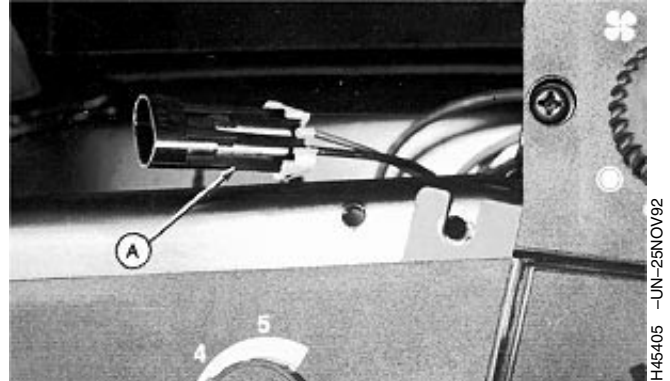
Continued on next page

HX,A53033,D -19-04DEC92-2/4

NOTE: If connector is **NOT** accessible, remove screws from left-hand console panel near the floor, then remove panel. Locate connector and push toward window. Pull connector out right-hand side far enough to make connection. It may be necessary to remove window to gain access.

4. Locate the 2-pin connector (A). Position the connector to connect with the radar signal connector.

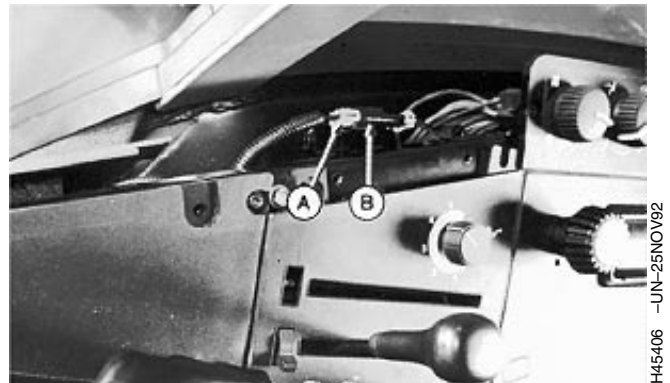
A—2-Pin Connector



HX,A53033,D -19-04DEC92-3/4

5. Connect radar signal harness adapter (A) to tractor connector (B).
6. Position harness forward and inward because it will not fit under the pencil tray. Push other end of harness between console and trim to make connection with radar sending unit.
7. Install pencil tray and console trim ring.

**A—Signal Harness Adapter
B—Tractor Connector**



HX,A53033,D -19-04DEC92-4/4

7000 Series Tractors—Radar and Bracket Installation

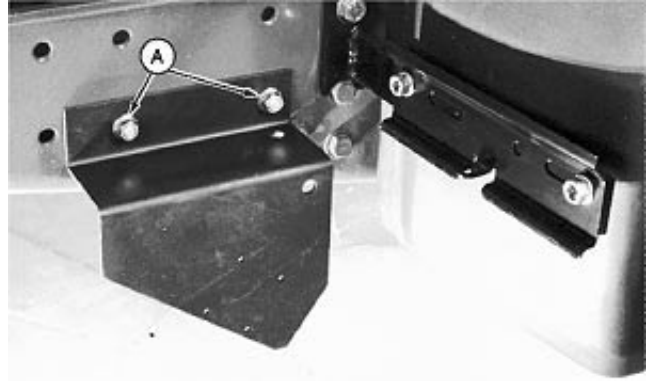
1. Remove tool box.

Continued on next page

AG,OOU01074,864 -19-01MAR00-1/5

2. Install planter radar bracket to side frame with two M16 x 35 flange head screws (A).

A—Flange Head Screws



A35317 -UN-03DEC92

AG,OUO1074,864 -19-01MAR00-2/5

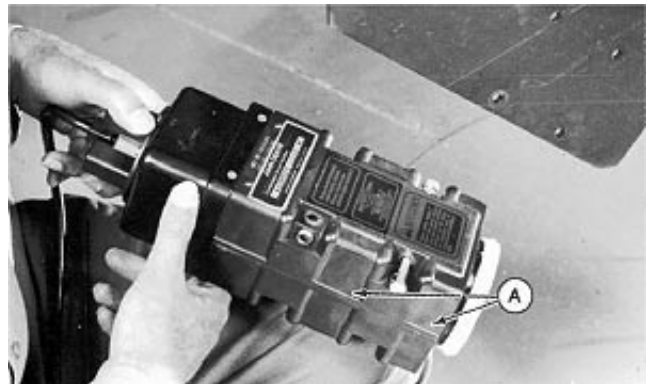
3. Install radar plastic body with seam (A) against bracket (serial number must be **UP**) using four 1/4 x 4 in. cap screws (B) and four 9/32 x 5/8 x 0.060 in. washers. Make certain washers are located between plastic radar body and bracket.

DO NOT OVER TIGHTEN

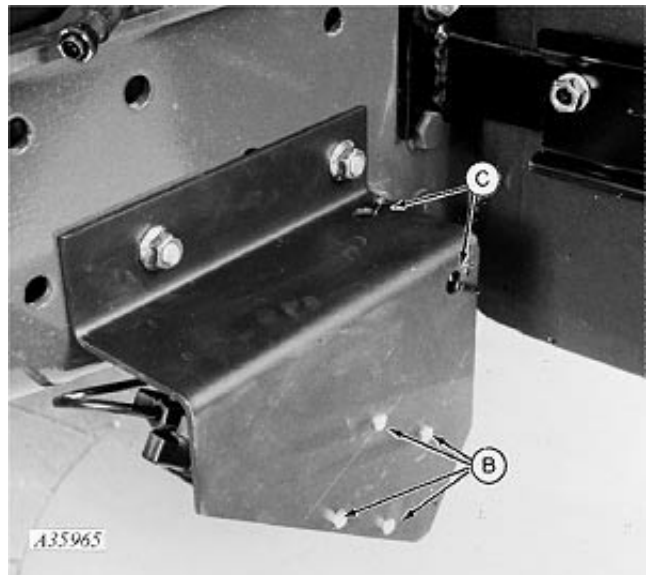
NOTE: DO NOT let harness hang in front of radar white eye.

4. Route connector behind starter. coil excess harness under bracket.
5. Attach to two unused bracket holes (C) with tie bands.
6. Install tool box.
7. Remove cab floor mat and panel.

**A—Seam
B—Cap Screws
C—Bracket Holes**



A35318 -UN-03DEC92



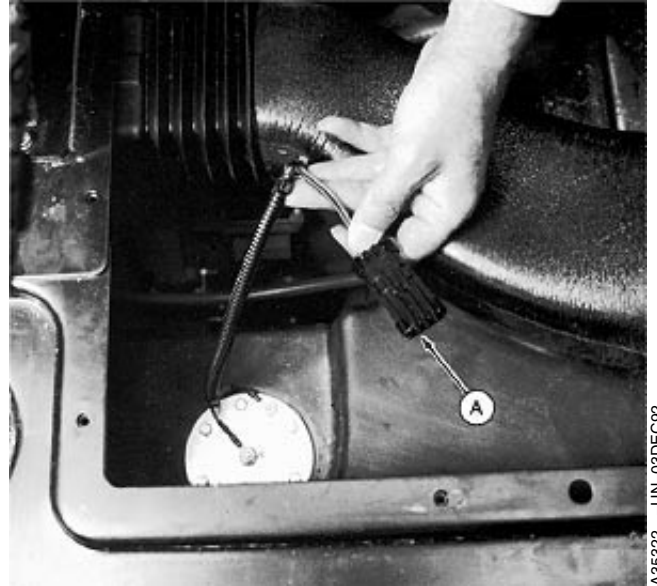
A35965 -UN-17JUL93

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AG,OUO1074,864 -19-01MAR00-3/5

8. Connect radar signal harness (A) to tractor harness at fuel sender.

A—Signal Harness



A35322 -UN-03DEC92

AG,OUO1074,864 -19-01MAR00-4/5

9. Route harness (A) along air conditioner lines and behind starter as shown.
10. Attach harness to lines with tie straps (B).

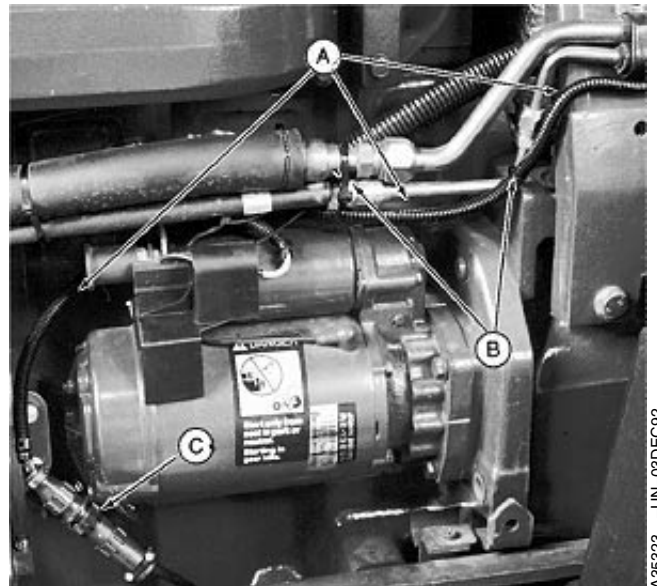


CAUTION: Avoid looking directly into the sensor face of radar to prevent possible eye damage from microwave signal emitted from radar sensor.

NOTE: Once radar is connected to tractor harness, radar supplies tractor instrumentation and radar signal is available for monitor from 2-pin connector at right-hand console.

11. Connect signal harness to radar harness at (C).

A—Harness
B—Straps
C—Harness Connection



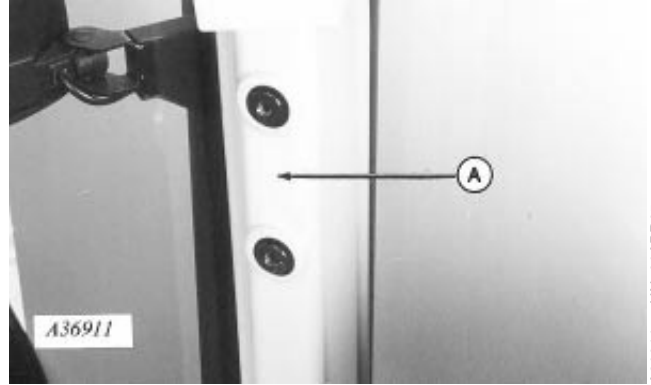
A35323 -UN-03DEC92

AG,OUO1074,864 -19-01MAR00-5/5

8000 Series Tractors—Console Installation

1. Unscrew plastic covers from right-hand front post (A) and remove. (Already removed in illustration.)

A—RH Front Post

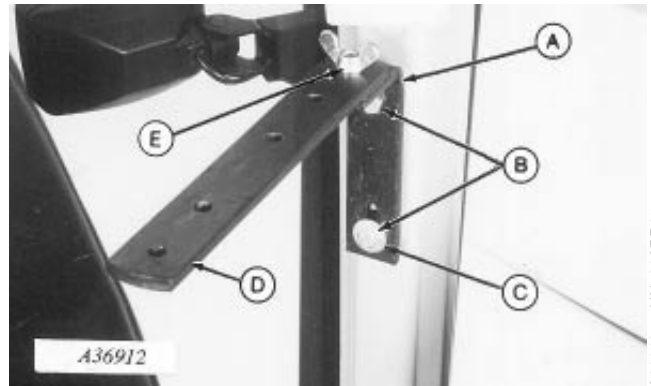


A36911 -UN-26APR95

AG,OUO1074,865 -19-01MAR00-1/11

2. Install "L" bracket (A) on front post with two M10 x 20 cap screws (B) with flat washer (C) on lower cap screw.
3. Install monitor strap (D) with M10 x 30 round head bolt and wing nut (E), with strap hole spacing as shown.

A—"L" Bracket
B—Cap Screws
C—Flat Washer
D—Monitor Strap
E—Wing Nut

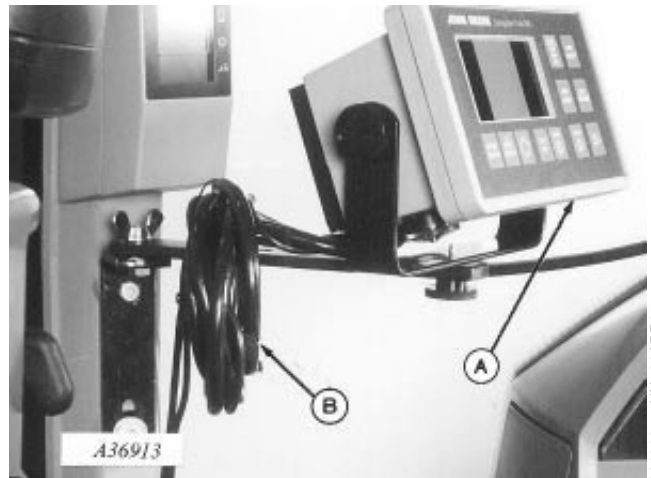


A36912 -UN-26APR95

AG,OUO1074,865 -19-01MAR00-2/11

4. Mount monitor (A) to strap as illustrated.
5. Coil excess harness (B) around strap.
6. Route monitor harness along right window and behind instrument panel.

A—Monitor
B—Excess Harness



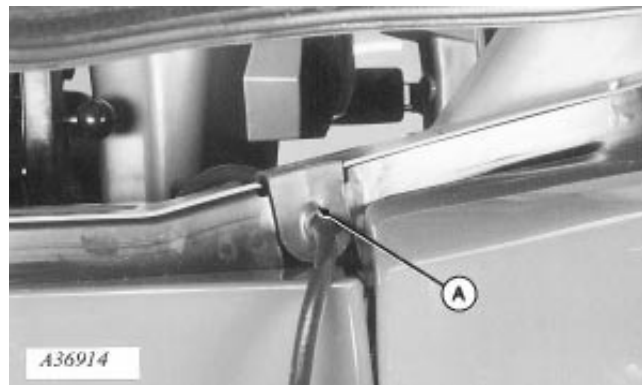
A36913 -UN-26APR95

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AG,OUO1074,865 -19-01MAR00-3/11

7. Remove existing right-hand side grommet. Install harness in new grommet (provided) and install grommet (A).

A—Grommet

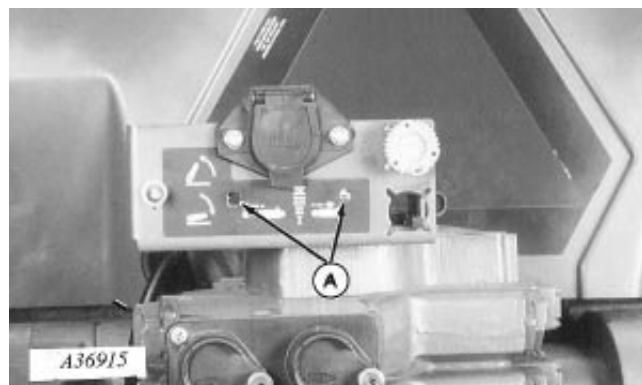


A36914 -UN-26APR95

AG,OUO1074,865 -19-01MAR00-4/11

8. Cut holes (A) in decal.

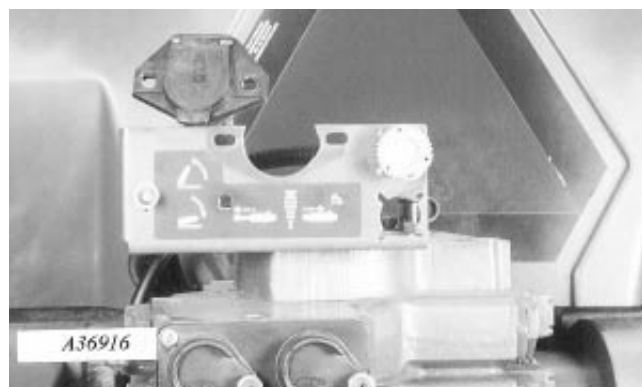
A—Holes



A36915 -UN-26APR95

AG,OUO1074,865 -19-01MAR00-5/11

9. Remove two cap screws attaching 7-pin connector and discard.



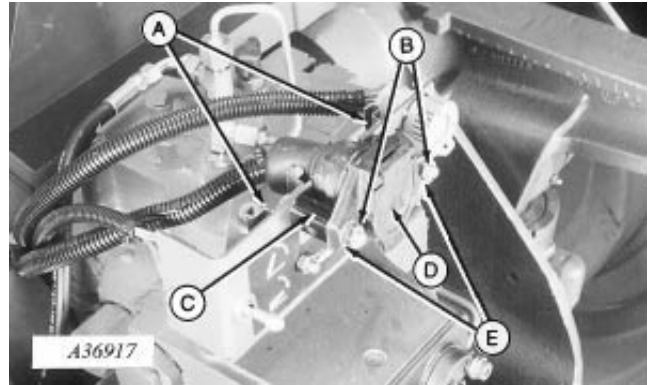
A36916 -UN-26APR95

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AG,OUO1074,865 -19-01MAR00-6/11

10. Install sockets (A) with M8 x 16 round head bolts, flat washers and nuts. DO NOT tighten until all hardware is in place.
11. Install two M8 x 55 cap screws (B), spacer (C), and 7-pin connector (D) with flat washers against connector plastic (E) and nuts. Tighten hardware.

A—Sockets
 B—Cap Screws
 C—Spacer
 D—7-Pin Connector
 E—Plastic Connector

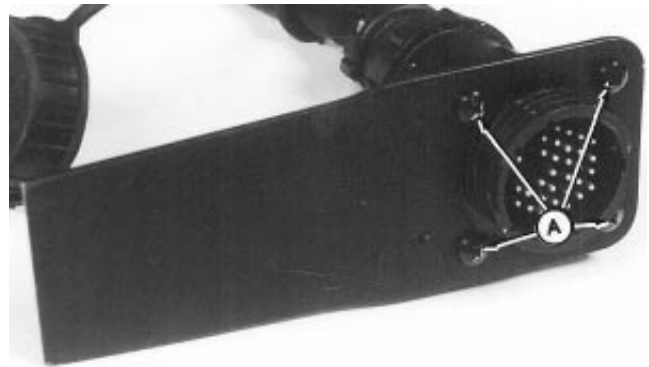


A36917 -UN-26APR95

AG,OUO1074,865 -19-01MAR00-7/11

12. Attach harness to connector spade using four self-tapping screws (A).

A—Self-tapping Screws

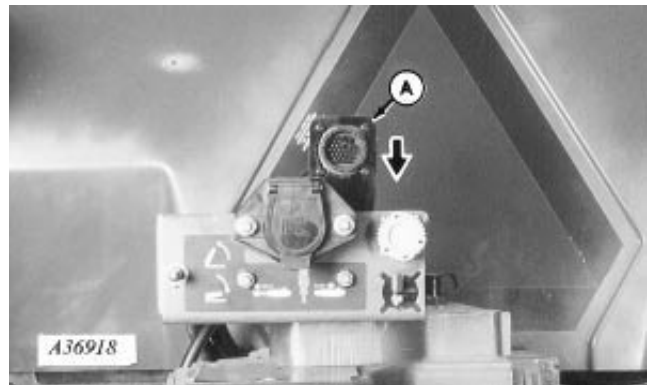


A36948 -UN-26APR95

AG,OUO1074,865 -19-01MAR00-8/11

13. Install connector spade (A) into socket and push down to seat.

A—Connector Spade



A36918 -UN-26APR95

Continued on next page

AG,OUO1074,865 -19-01MAR00-9/11

NOTE: Harness may be installed in rear outlet.

14. Install monitor power harness (A) into front convenience outlet if equipped.
15. Route harness under floor mat.
16. Nylon tie excess main and power harness to monitor strap.

A—Harness



A36919 -UN-26APR95



A36920 -UN-26APR95

AG.OUO1074,865 -19-01MAR00-10/11

17. Route harness (A) along air conditioner lines and behind starter.
18. Attach harness to lines with tie straps (B).

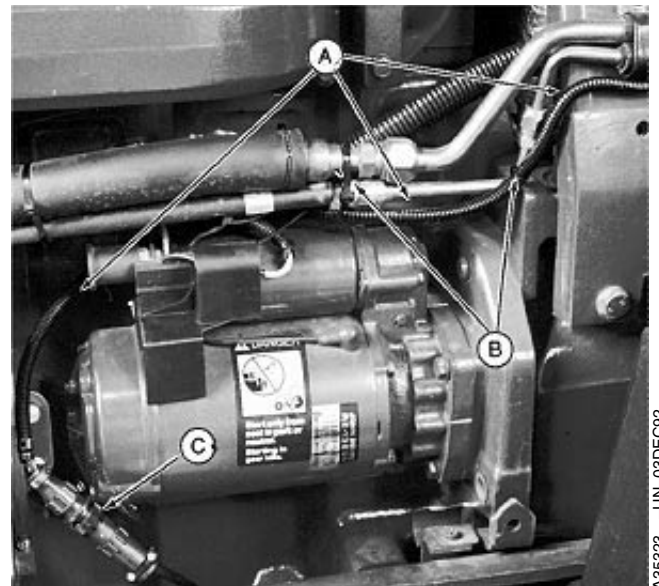


CAUTION: Avoid looking directly into the sensor face of radar to prevent possible eye damage from microwave signal emitted from radar sensor.

NOTE: Once radar is connected to tractor harness, radar supplies tractor instrumentation and radar signal is available for monitor from 2-pin connector at right-hand console.

19. Connect signal harness to radar harness at (C).

A—Harness
B—Tie Straps
C—Harness Connection



A35323 -UN-03DEC92

AG.OUO1074,865 -19-01MAR00-11/11

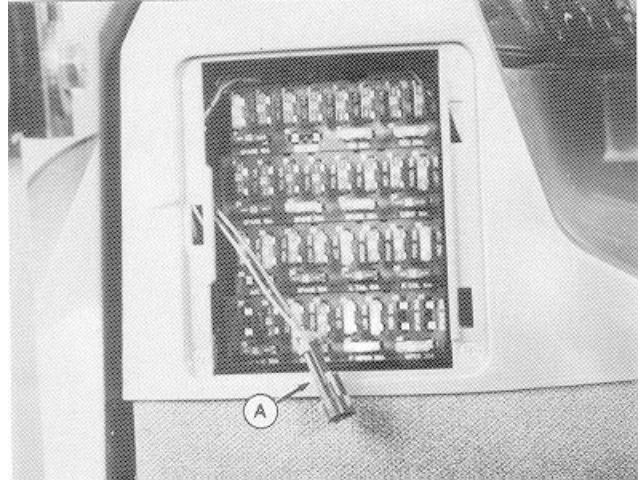
Install Radar Signal Adapter Harness—8000 and 8000T Series Tractor

NOTE: This harness is used when existing tractor radar will supply signal to monitor and to tractor instrumentation. If tractor is not equipped with radar and a planter radar will be installed, go to "Install Radar".

8000 Series Tractor installation illustrated.

1. Remove fuse panel cover and locate 2-pin harness (A).

A—2-Pin Harness

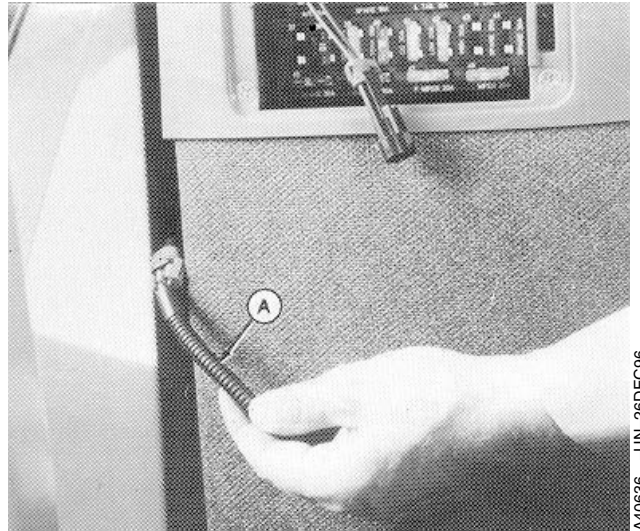


A40635 -UN-26DEC96

59082OM,90D -19-27JAN97-1/4

2. Route signal harness (A) behind console and into fuse panel area.

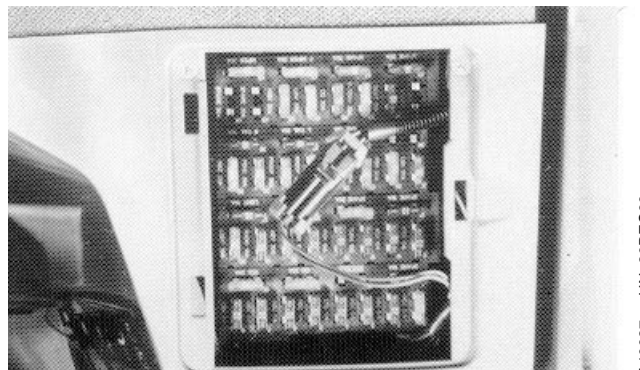
A—Signal Harness



A40636 -UN-26DEC96

59082OM,90D -19-27JAN97-2/4

3. Connect signal harness to tractor harness. Push connector back to side of fuses.
4. Install fuse panel cover.
5. Route signal harness under floor mat along window.



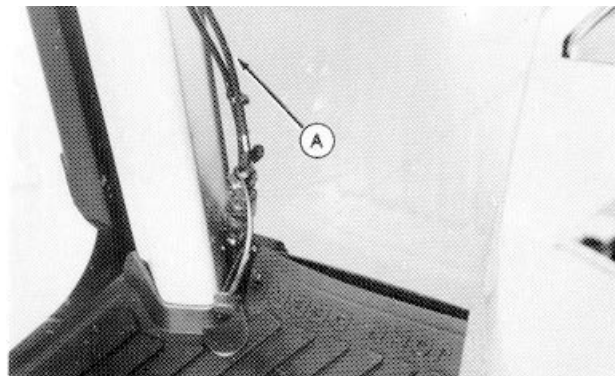
A40637 -UN-26DEC96

Continued on next page

59082OM,90D -19-27JAN97-3/4

6. Connect signal harness to monitor radar harness (A).

A—Monitor Radar Harness



59082OM,90D -19-27JAN97-4/4

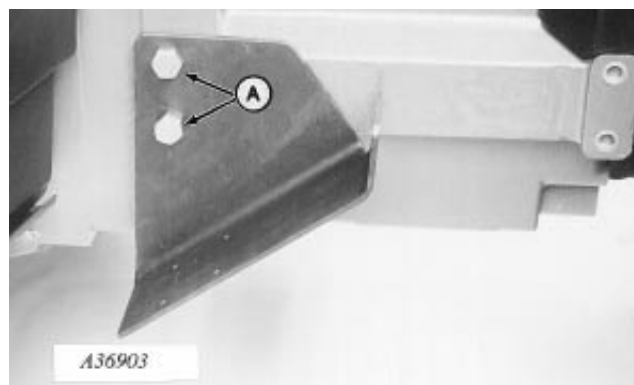
8000 Series Tractors—Radar and Bracket Installation

1. Remove two plastic plugs on right-hand side of tractor ahead of fuel tank.

AG,OUO1074,866 -19-01MAR00-1/9

2. Install radar bracket with two M20 x 35 cap screws (A).

A—Cap Screws

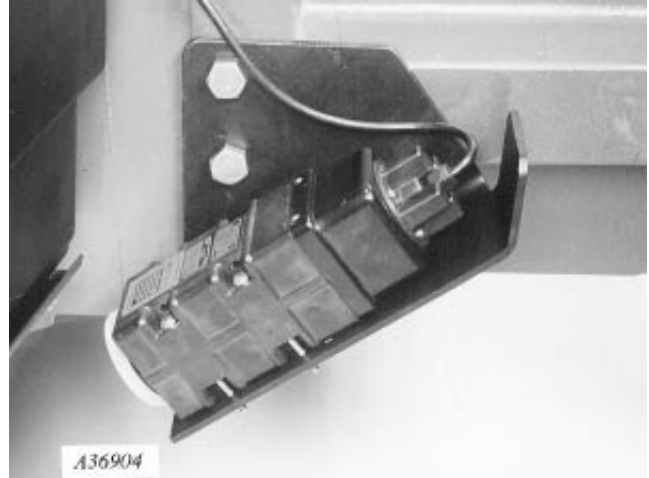


Continued on next page

AG,OUO1074,866 -19-01MAR00-2/9

IMPORTANT: Radar serial number plate must be facing up when radar is installed.

3. Install radar on bracket with four 1/4 x 4 in. cap screws and lock nuts.
4. Remove right side engine cover.

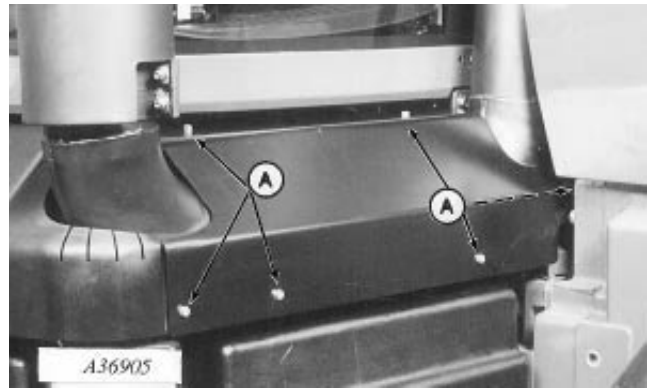


A36904 -UN-26APR95

AG,OUO1074,866 -19-01MAR00-3/9

5. Remove six cap screws and washers (A) from exhaust shield. Save for reuse.

A—Cap Screws and Washers

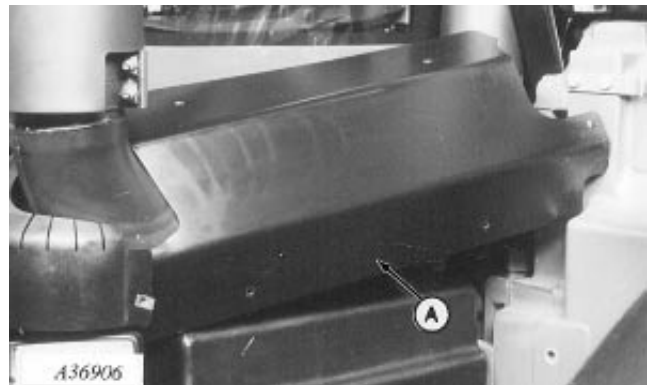


A36905 -UN-26APR95

AG,OUO1074,866 -19-01MAR00-4/9

6. Remove exhaust shield (A).

A—Shield



A36906 -UN-26APR95

Continued on next page

AG,OUO1074,866 -19-01MAR00-5/9

7. Locate 3-pin connector (A) behind exhaust shield.

A—3-Pin Connector

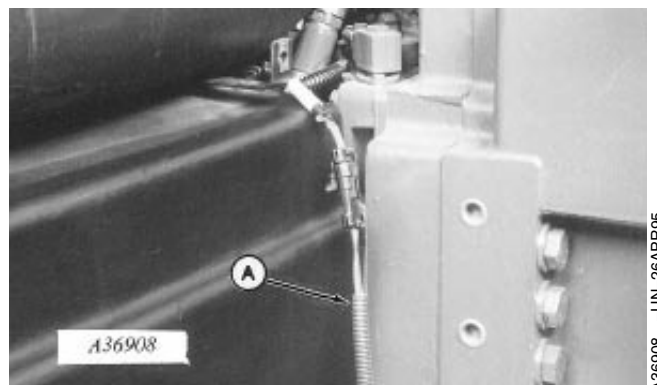


AG,OUO1074,866 -19-01MAR00-6/9

A36907 -UN-26APR95

8. Connect radar harness to adapter harness and adapter harness (A) to 3-pin connector.

A—Adapter Harness



AG,OUO1074,866 -19-01MAR00-7/9

A36908 -UN-26APR95

9. Coil excess harness and tie away from exhaust using plastic ties as required.

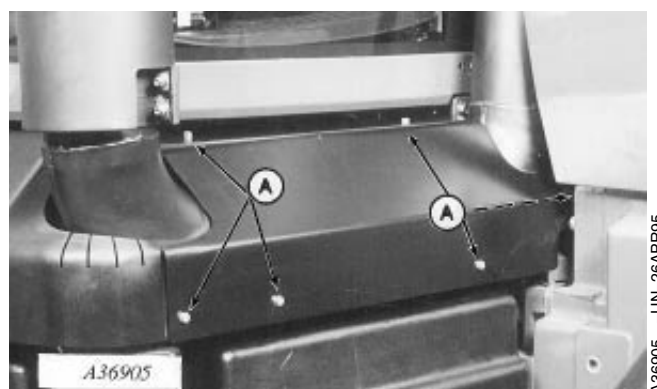


AG,OUO1074,866 -19-01MAR00-8/9

A36909 -UN-26APR95

10. Install exhaust heat shield with six cap screws and washers (A) and right side engine cover.

A—Cap Screws and Washers



AG,OUO1074,866 -19-01MAR00-9/9

A36905 -UN-26APR95

Install Radar—8000T Series Tractors

1. Remove two plastic plugs on right-hand side of tractor ahead of the cab air filter cover.

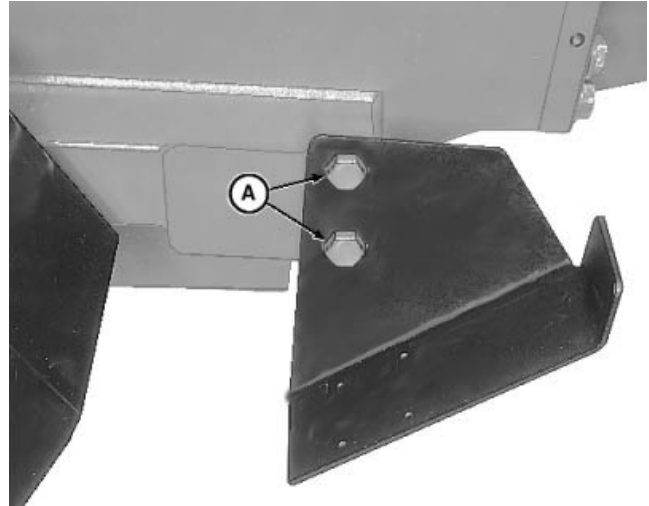
A62535,L -19-05MAY98-1/4

2. Install radar bracket using two M20 x 35 cap screws (A).

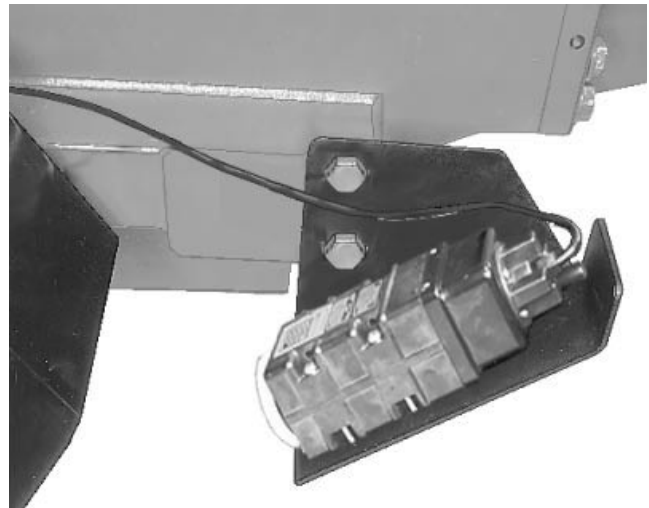
IMPORTANT: Radar serial number plate must be facing up (as illustrated) when radar is installed.

3. Install radar on bracket using four 1/4 x 4 in. cap screws, flat washers and lock nuts.
4. Route harness and connect to monitor radar lead.

A—Cap Screws



A44870 -UN-01MAY98

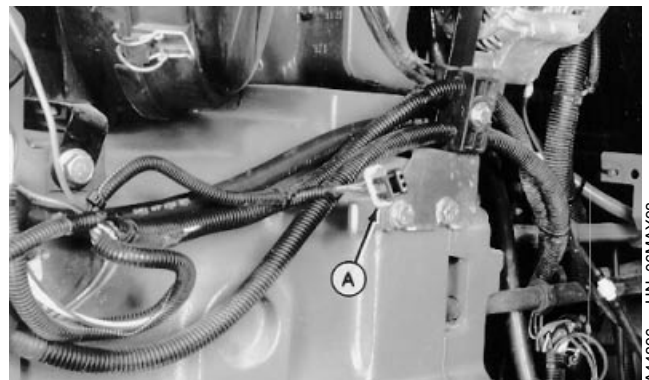


A44898 -UN-01MAY98

A62535,L -19-05MAY98-2/4

5. Locate 3-pin connector (A) on left side of transmission.

A—3-Pin Connector



A44896 -UN-06MAY98

Continued on next page

A62535,L -19-05MAY98-3/4

6. Connect radar harness to adapter harness and adapter harness (A) to 3-pin connector.
7. Coil excess harness and tie away from exhaust and moving parts using plastic ties as required.

A—Adapter Harness



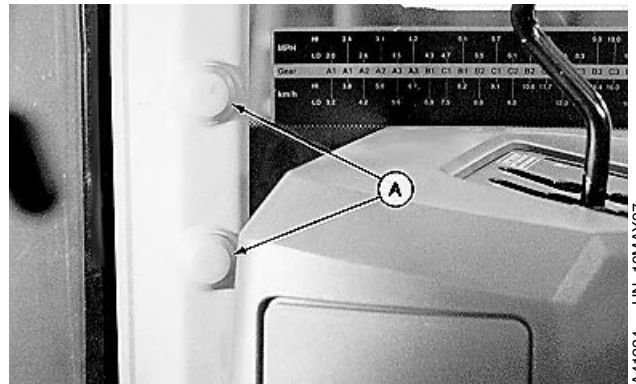
A44897 -UN-06MAY98

A62535,L -19-05MAY98-4/4

9000 and 9000T Series Tractors—Console Installation

1. Remove threaded plastic covers (A) from right-hand front corner post.

A—Plastic Covers

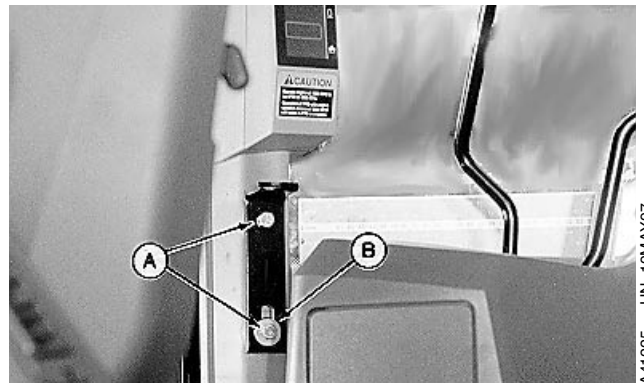


A41224 -UN-19MAY97

AG,OUO1074,867 -19-01MAR00-1/10

2. Install "L" bracket to front post using two M10 x 20 cap screws (A) with flat washer (B) on lower cap screw (slotted hole).
3. Install M10 x 30 cap screw in threaded hole in "L" bracket.

**A—Cap Screws
B—Flat Washer**



A41225 -UN-19MAY97

AG,OUO1074,867 -19-01MAR00-2/10

4. Attach monitor strap (A) using M10 wing nut (B).

**A—Monitor Strap
B—Wing Nut**



A41226 -UN-19MAY97

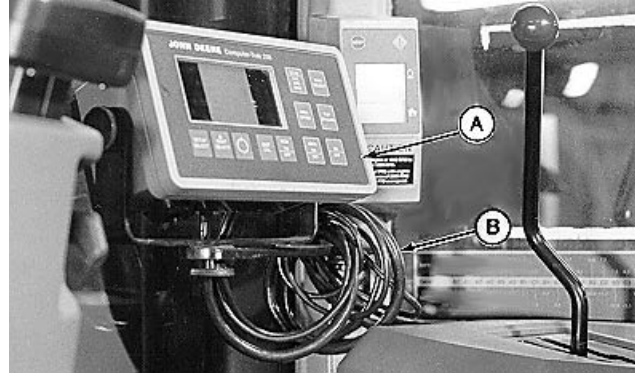
Continued on next page

AG,OUO1074,867 -19-01MAR00-3/10

NOTE: For tractors with mechanical shift transmission (MST), position monitor so as not to interfere with shifter operation.

5. Attach monitor (A) to strap making certain to install rubber washer between monitor and strap.
6. Coil excess harness (B) around strap.
7. Route monitor harness along right-hand window and behind instrument panel.

A—Monitor
B—Excess Harness

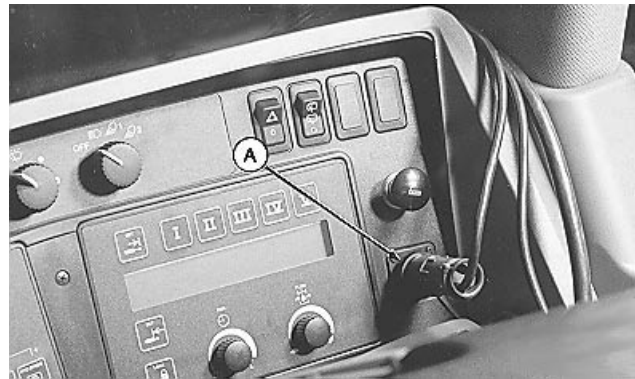


A41227 -UN-19MAY97

AG,OUO1074,867 -19-01MAR00-4/10

8. Connect monitor power harness to rear convenience outlet (A).

A—Convenience Outlet

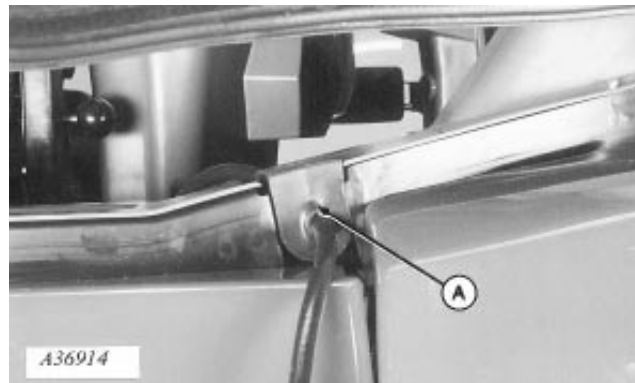


A41228 -UN-19MAY97

AG,OUO1074,867 -19-01MAR00-5/10

9. Remove existing right-hand side grommet. Install harness in NEW grommet (provided) and install grommet (A).
10. Connect extension harness to monitor harness from cab.

A—Grommet



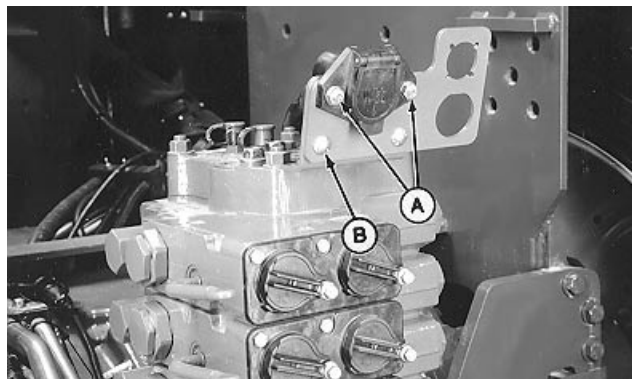
A36914 -UN-26APR95

Continued on next page

AG,OUO1074,867 -19-01MAR00-6/10

11. Remove two cap screws (A) attaching 7-pin connector and discard. Remove round head bolt (B) and save.

A—Cap Screws
B—Round Head Bolt

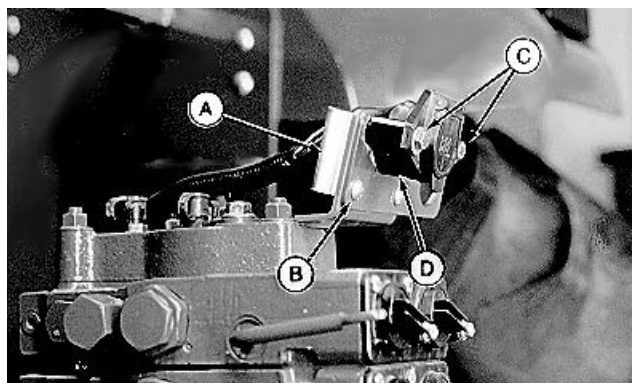


A41223 -UN-19MAY97

AG,OUO1074,867 -19-01MAR00-7/10

12. Install socket (A) using M8 x 16 round head bolt (B), washer and nut removed in step 11.
13. Install two M8 x 60 cap screws (C), spacer (D) and 7-pin connector with flat washers against connector plastic, and nuts. Tighten hardware.

A—Socket
B—Round Head Screw
C—Cap Screw
D—Spacer

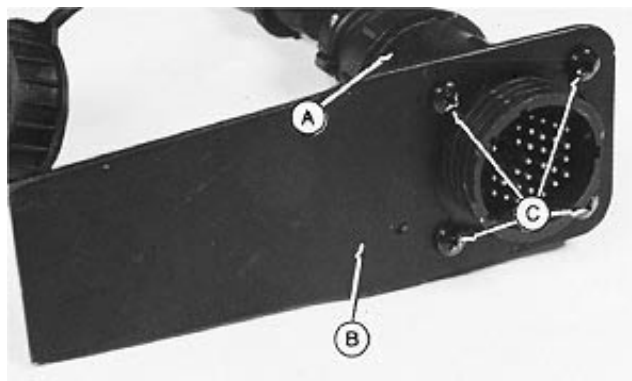


A41229 -UN-19MAY97

AG,OUO1074,867 -19-01MAR00-8/10

14. Attach harness connector (A) to mounting spade (B) using four self-tapping screws (C).

A—Harness Connector
B—Mounting Spade
C—Self-tapping Screws



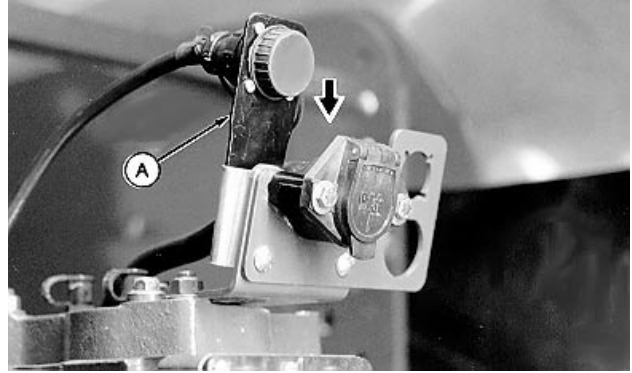
H45416 -UN-02DEC92

Continued on next page

AG,OUO1074,867 -19-01MAR00-9/10

15. Install connector spade (A) into socket and push down to seat.
16. Route extension harness along existing harnesses or hydraulic lines. Be certain harness is clear of moving parts (e.g. PTO shaft, tractor hinge etc.).
17. Tie band harness as required.

A—Connector Spade



A41230 -UN-19MAY97

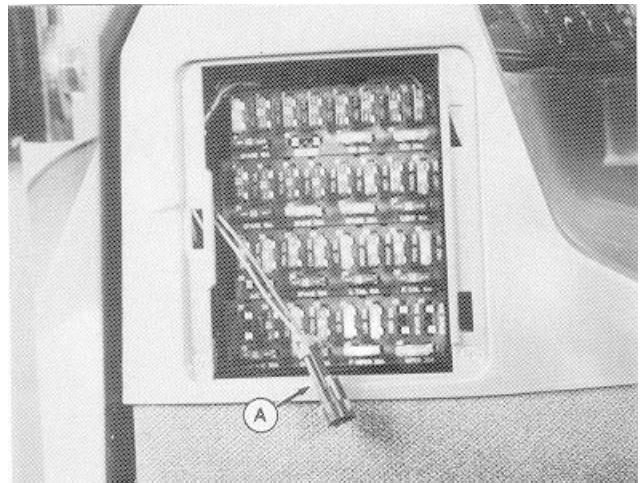
AG,OUO1074,867 -19-01MAR00-10/10

Install Radar Signal Adapter Harness—9000 and 9000T Series Tractor

NOTE: This harness is used when existing tractor radar will supply signal to monitor and to tractor instrumentation. If tractor is not equipped with radar and a planter radar will be installed, go to "9000 and 9000T Series Tractor—Radar and Bracket Installation".

1. Remove fuse panel cover and locate 2-pin harness (A).

A—2-Pin Harness

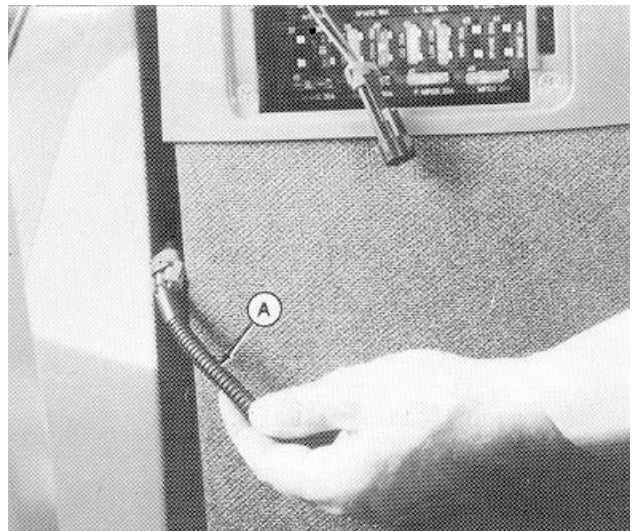


A40635 -UN-26DEC96

59082OM,90D -19-27JAN97-1/4

2. Route signal harness (A) behind console and into fuse panel area.

A—Signal Harness

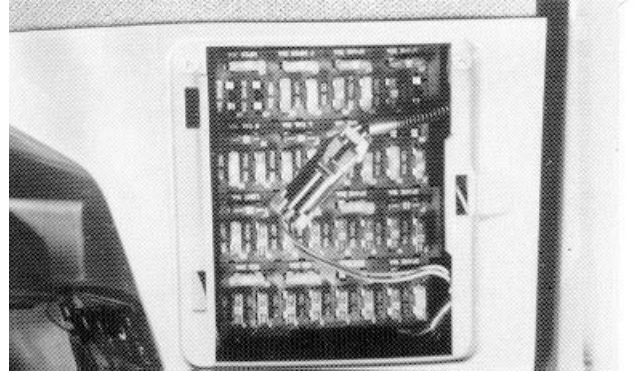


A40636 -UN-26DEC96

Continued on next page

59082OM,90D -19-27JAN97-2/4

3. Connect signal harness to tractor harness. Push connector back to side of fuses.
4. Install fuse panel cover.
5. Route signal harness under floor mat along window.

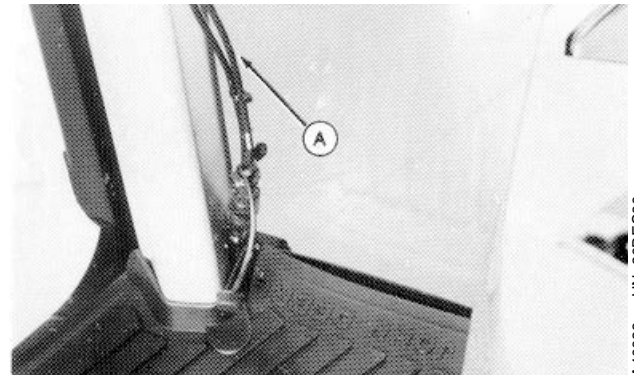


A40637 -UN-26DEC96

59082OM,90D -19-27JAN97-3/4

6. Connect signal harness to monitor radar harness (A).

A—Radar Harness



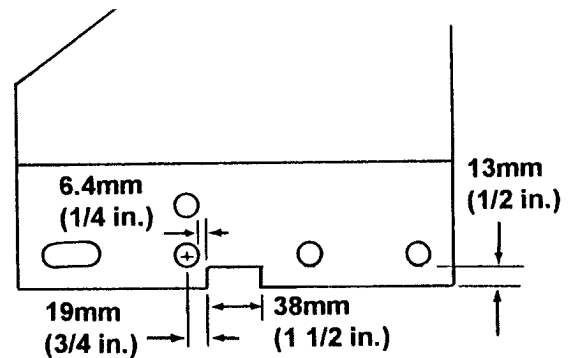
A40638 -UN-26DEC96

59082OM,90D -19-27JAN97-4/4

9000 and 9000T Series Tractor—Radar and Bracket Installation

NOTE: Earlier brackets will need to be modified to avoid interference with hydraulic oil filter housing mounts. After modifying bracket, procedure to install earlier and later brackets is the same.

1. Refer to the illustration and cut a notch out of the top of the bracket at specified dimensions.



A45961 -19-02MAR00

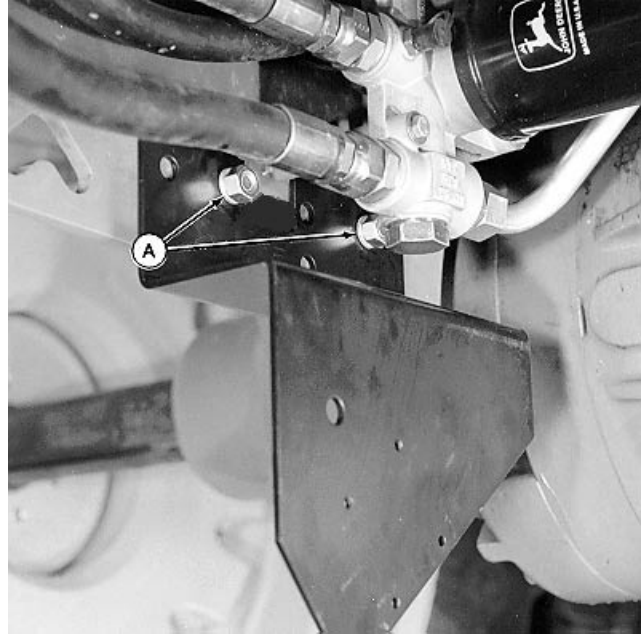
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AG,OUO1074,868 -19-01MAR00-1/3

NOTE: Shift bracket until top is level.

2. Install bracket on tractor, by hydraulic oil filter housing, using two 5/8 x 1-1/2 in. cap screws (A), flat washers, lock washers and nuts as illustrated.

A—Cap Screws

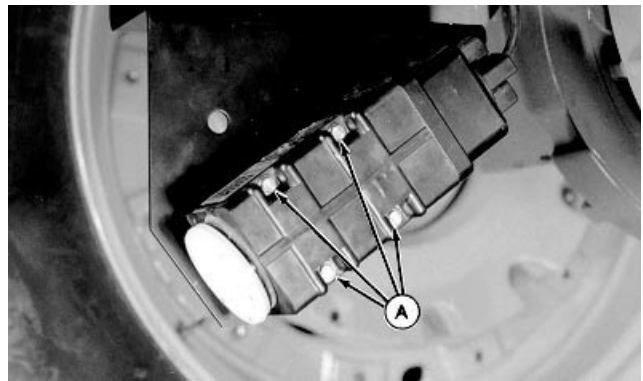


AG,OUO1074,868 -19-01MAR00-2/3

CAUTION: Avoid looking directly into the sensor face of radar to prevent possible eye damage from microwave signal emitted from radar.

NOTE: Be certain radar unit is mounted on bracket with serial number plate facing upward.

3. Install radar unit on inside of bracket using four 1/4 x 4 in. cap screws (A), flat washers and lock nuts (flat washers under head of cap screw against radar unit).
4. Route harness along right-hand frame to rear of cab. Tie band as required.
5. Connect radar harness to monitor harness.



A—Cap Screw

AG,OUO1074,868 -19-01MAR00-3/3

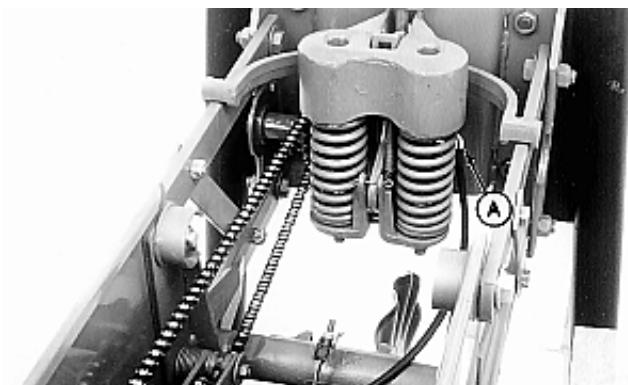
Seed Tube Sensors

Connect to Seed Tube Sensors (Small and Large)

NOTE: The seed tubes for MAXEMERGE PLUS® row units are illustrated. If another type seed tube is installed, the instructions are provided with the sensors.

1. Route harness through hole (A) on planting units.

A—Hole



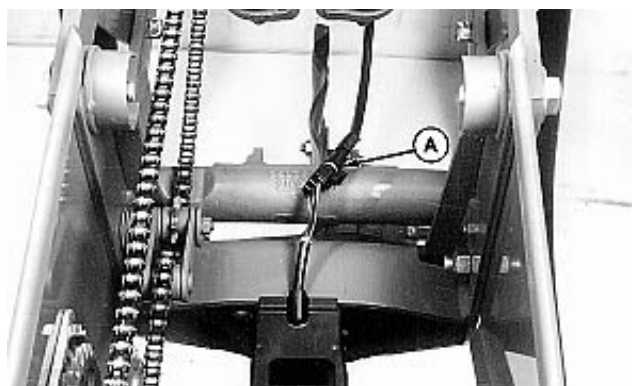
A39829 -UN-21MAY96

MAXEMERGE PLUS is a trademark of Deere & Company.

AG,OUO1074,870 -19-01MAR00-1/3

2. Connect harness (A) to seed sensor harness.

A—Harness



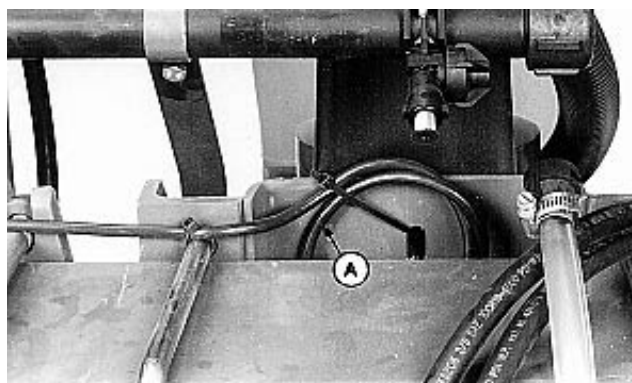
A39830 -UN-21MAY96

AG,OUO1074,870 -19-01MAR00-2/3

NOTE: Refer to the harness assembly instructions included with each harness bundle.

3. Coil excess harness (A) between frame and planting unit and fasten with tie bands.

A—Harness



A39831 -UN-21MAY96

AG,OUO1074,870 -19-01MAR00-3/3

Crime Prevention Tips

Help Prevent Crime

You can help take a bite out of crime by properly documenting ownership and discouraging theft.

**TAKE A BITE OUT OF
CRIME**
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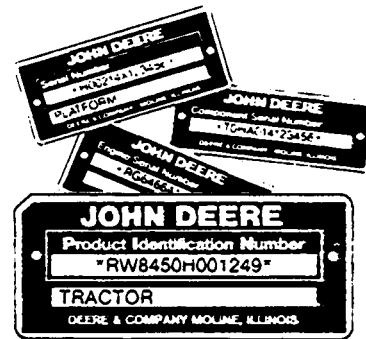


TS140 -19-07OCT88

DX,CRPRV,A -19-03MAR93-1/1

Record Ag Identification Numbers

1. Mark your machines with your own unique numbering system.
2. Record the Product Identification Number (PIN) of the unit and also individual component identification numbers for engines, axles, pumps, etc. Include the PIN numbers on all documentation, such as insurance, financial, and warranty papers.

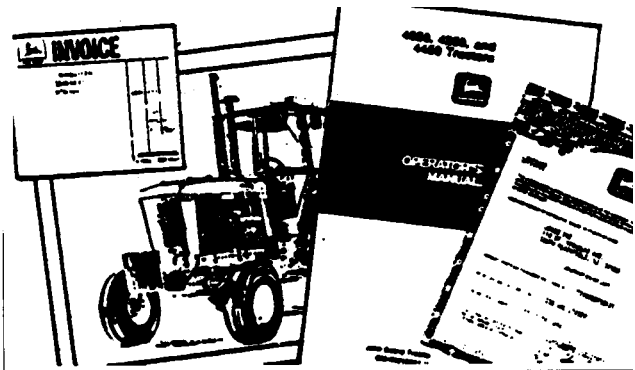


TS161 -UN-23MAR89

DX,CRPRV,B -19-03MAR93-1/1

Keep Proof of Ownership

1. Take color photographs from several angles of each machine.
2. Maintain an up-to-date inventory of all your machines.
3. Keep your documented identification numbers, color photographs, and inventory in a safe, secure location.



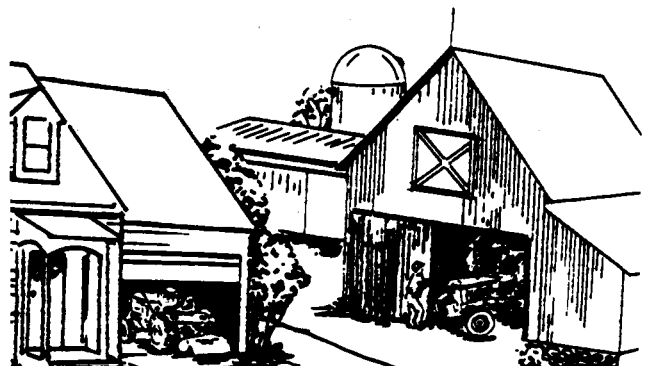
TS142 -UN-23MAR89

DX,CRPRV,C -19-03MAR93-1/1

Park Indoors Out of Sight

Make machines hard to move:

- Park large equipment in front of exits.
- Lower equipment to the ground. Remove key.
- Remove battery when unit is in storage.
- Lock cab doors, windows, and vandal-proof devices.
- Set wheels in widest position making loading more difficult. Lock building.



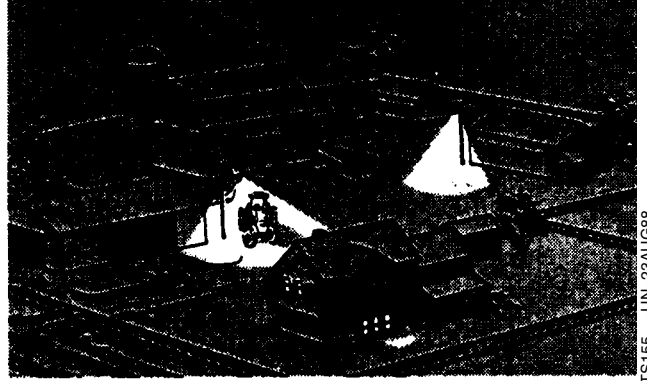
TS143 -UN-23AUG88

DX,CRPRV,D -19-03MAR93-1/1

When Parking Outdoors

Make machines hard to move:

- Park in a well-lighted, fenced area.
- Lower all equipment to the ground.
- Remove ignition key. Remove battery when unit is in storage.
- Lock cab doors, windows, and vandal-proof devices.
- Set wheels in widest position making loading more difficult.

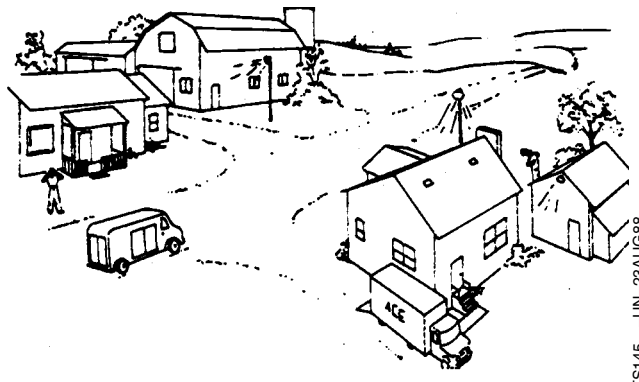


TS155 -UN-23AUG88

DX,CRPRV,E -19-03MAR93-1/1

Reduce Vandalism

1. Install vandal-proof devices.
2. Participate in a neighborhood watch program. Take written notes of suspicious vehicles or persons and report your findings to law enforcement agency.
3. Regularly verify that identification plates have not been removed. If they have, notify law enforcement agency. Order duplicate plates from your dealer.



TS145 -UN-23AUG88

DX,CRPRV,F -19-03MAR93-1/1

Report Thefts Immediately

1. Immediately notify your local law enforcement agency and insurance agent.
2. Provide a complete description of the machine, all of the documented identification numbers and color photographs.
3. Request verification of the identification numbers after they have been entered with any regional or national crime information center. Double check the numbers to be sure they are correct.
4. Notify your John Deere dealer of the theft and request that its loss be posted with full description and identification numbers.



DX,CRPRV,G -19-03MAR93-1/1

Specifications

Specifications

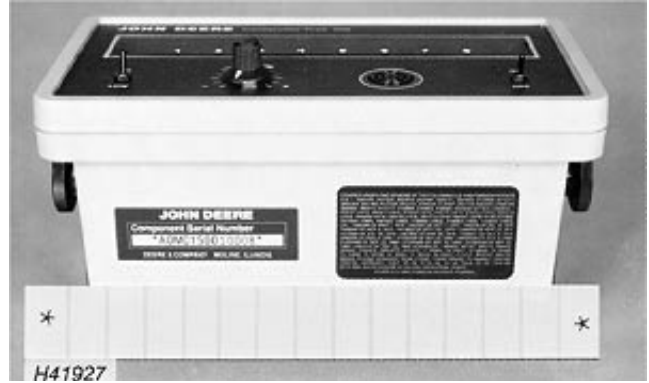
COMPUTER TRAK® 150 MONITOR	
Alarm System	Individual Row Lamps and Audible Alarm
Circuit Protection	One 3-Amp Fuse
Features	Tuneable Seed Flow By Using a HI/LO Toggle Switch and Tuneable Knob
COMPUTER TRAK® 250 MONITOR	
Alarm System	Liquid Crystal Display and Audible Alarm
Circuit Protection	One 1-Amp Fuse, One 3-Amp Fuse
Measurement System	English and Metric
Distance Sensor	Radar Unit
Features	HI/LO Population Warning, Area Planted, Population Scan With Elective MIN.AVG.MAX., Speed Indicator and Individual Row Selection, Population or Spacing

COMPUTER TRAK is a trademark of Deere & Company.

AG,OUC1074,878 -19-01MAR00-1/1

Record Monitor Serial Number

The serial numbers are located on the console and radar. Record in the spaces provided.



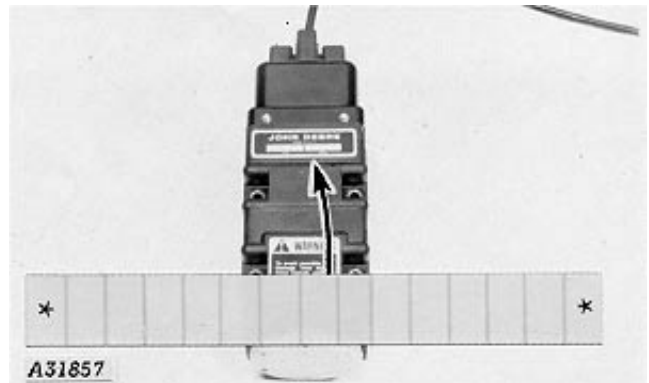
150 Monitor Serial Number

H41927 -UN-29MAY90



250 Monitor Serial Number

H41915 -UN-16MAY90



Radar Serial Number

A31857 -UN-13MAR89

AG,OUO1074,879 -19-01MAR00-1/1

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John Deere Service Literature Available

Technical Information

Technical information is available from John Deere. Some of this information is available in electronic as well as printed form. Order from your John Deere dealer or call **1-800-522-7448**. Please have available the model number, serial number, and name of the product.

Available information includes:

- **PARTS CATALOGS** list service parts available for your machine with exploded view illustrations to help you identify the correct parts. It is also useful in assembling and disassembling.
- **OPERATOR'S MANUALS** providing safety, operating, maintenance, and service information. These manuals and safety signs on your machine may also be available in other languages.
- **OPERATOR'S VIDEO TAPES** showing highlights of safety, operating, maintenance, and service information. These tapes may be available in multiple languages and formats.
- **TECHNICAL MANUALS** outlining service information for your machine. Included are specifications, illustrated assembly and disassembly procedures, hydraulic oil flow diagrams, and wiring diagrams. Some products have separate manuals for repair and diagnostic information. Some components, such as engines, are available in separate component technical manuals
- **FUNDAMENTAL MANUALS** detailing basic information regardless of manufacturer:
 - Agricultural Primer series covers technology in farming and ranching, featuring subjects like computers, the internet, and precision farming.
 - Farm Business Management series examines "real-world" problems and offers practical solutions in the areas of marketing, financing, equipment selection, and compliance.
 - Fundamentals of Services manuals show you how to repair and maintain off-road equipment.
 - Fundamentals of Machine Operation manuals explain machine capacities and adjustments, how to improve machine performance, and how to eliminate unnecessary field operations.



TS189 -UN-17JAN89



TS191 -UN-02DEC88



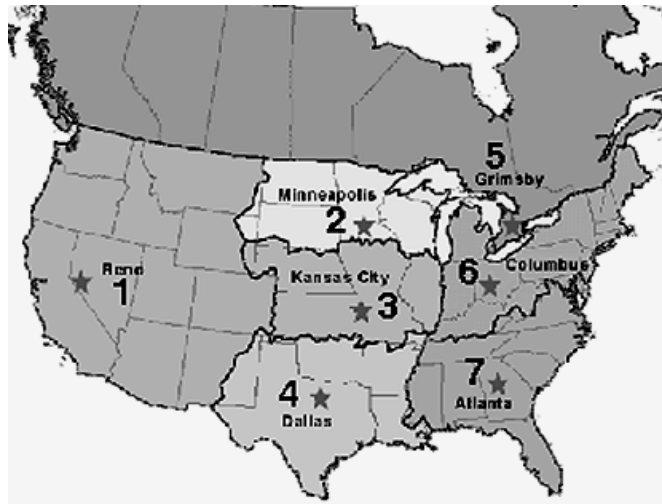
TS224 -UN-17JAN89



TS1663 -UN-10OCT97

John Deere Service Keeps You on the Job

John Deere Is At Your Service When You Need It



1. JOHN DEERE COMPANY
1450 Ridgeview Drive Suite 200
Reno, NV 89509
Phone: 775-824-5520
Fax: 775-824-5559

3. JOHN DEERE COMPANY
3210 East 85th Street
Kansas City, MO 64132-2586
Phone: 816-361-4000
Fax: 816-995-9380

5. JOHN DEERE LIMITED
P.O. Box 1000
Grimsby, ON L3M 4H5
Phone: 905-945-9281
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2001 Deere Drive
Conyers, GA 30013-1598
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Fax: 770-388-2103

2. JOHN DEERE COMPANY
2001 West 94th Street
Bloomington, MN 55431-3211
Phone: 612-887-6200
Fax: 612-887-6244

4. JOHN DEERE COMPANY
4040 McEwen, Suite 200
Dallas, TX 75244
Phone: 972-385-1701
Fax: 972-663-2390

6. JOHN DEERE COMPANY
701 Georgesville Road
Columbus, OH 43228-2499
Phone: 614-275-1500
Fax: 614-275-1450

CUSTOMER SATISFACTION is important to John Deere. Our dealers strive to provide you with prompt, efficient parts and service.

This includes:

- Maintenance and service parts to support your equipment.
- Trained service technicians and the necessary diagnostic and repair tools to service your equipment.

CUSTOMER SATISFACTION PROBLEM RESOLUTION PROCESS

Your John Deere dealer is dedicated to supporting your equipment and resolving any problem you may experience.

1. When contacting your dealer, be prepared with the following information:

- Machine model and product identification number
- Date of purchase
- Nature of problem

2. Discuss problem with dealer service manager.

3. If unable to resolve, explain problem to dealership manager and request assistance.

4. If you have a persistent problem your dealership is unable to resolve, ask your dealer to contact John Deere for assistance.

5. If a problem is not resolved to your satisfaction, contact the appropriate John Deere sales location for your area shown in map and ask to speak with customer service.