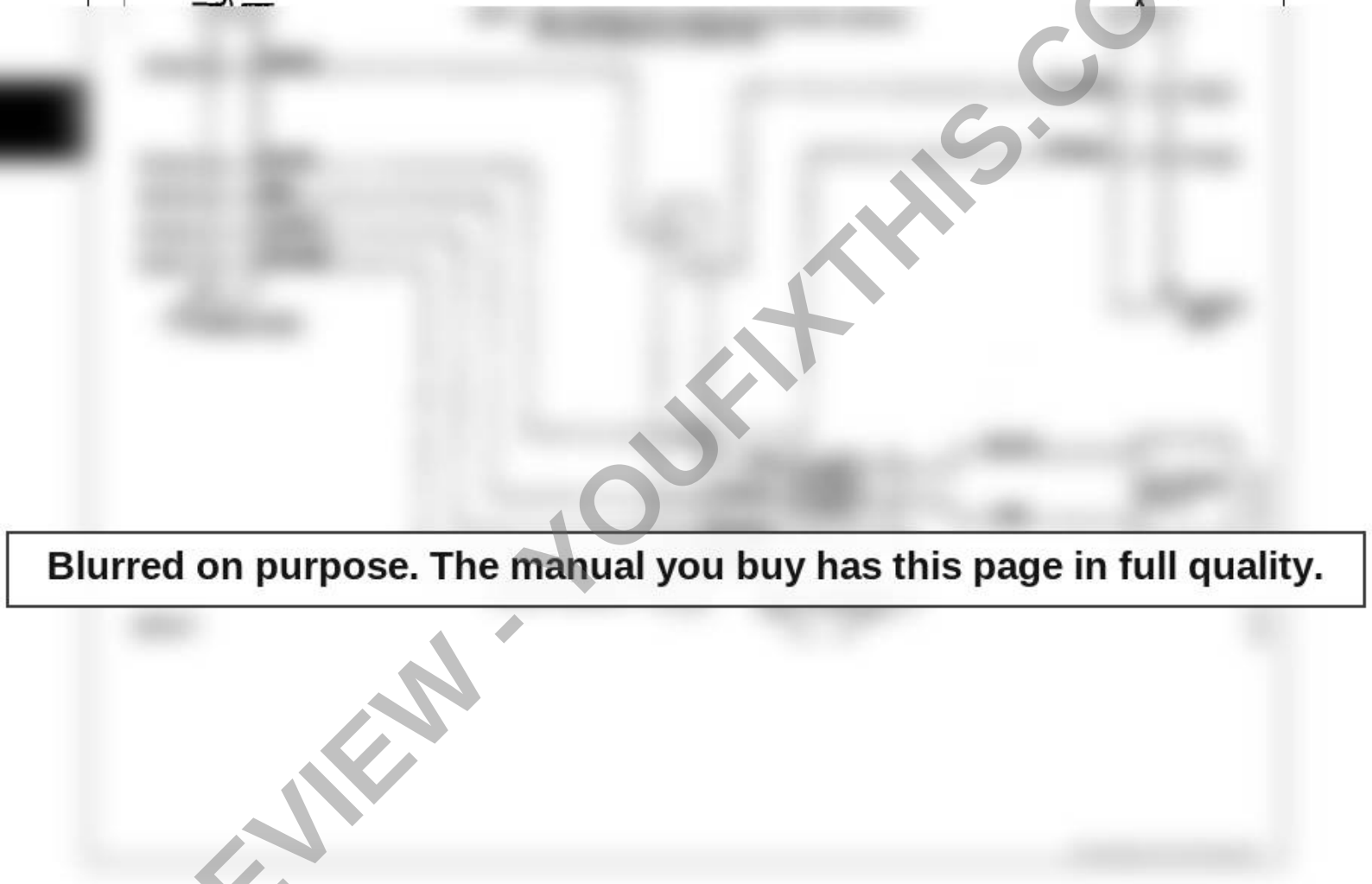
POWER MODULE WIRING DIAGRAM

This diagram is simplified to show only the general circuits to aid in diagnosing. Where a connection between console side and harness side is shown at the circuit board, less than one ohm resistance exists between the console pin and harness pin on that circuit.



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DIAGNOSING PROBLEMS

Symptom	Suggested Action
Row Failed (Row lamp will not tune out)	1. Check planter to be sure seed meter is dropping seed. 2. Check seed sensor. See SEED TUBE SENSOR DIAGNOSTIC section. 3. Make sure seed sensor is clean. 4. Perform FUNCTION TEST as described in this group. 5. Check planter harness for an open circuit in the specific row signal lead, or in the power leads to that row. See PLANTER HARNESS DIAGNOSTIC section.
All Rows Fail (All row lamps will not tune out)	1. Check HI/LO switch position. 2. Check planter to be sure seed meters are dropping seed. 3. Perform FUNCTION Test. 4. Check seed sensors for shorted power leads (+8V to ground). See SEED TUBE SENSOR DIAGNOSTIC section. 5. Make sure seed sensors are clean. 6. Perform POWER MODULE TEST - VOLTAGE, steps 1-8. 7. Check for an open in the power module ground circuit. See POWER MODULE TEST - CONTINUITY, step 6. 8. Check planter harness for open or shorted power leads. See PLANTER HARNESS DIAGNOSTIC section.
Row Lamps Will Not Come On	1. Check HI/LO switch position. 2. Perform FUNCTION TEST. 3. Perform POWER MODULE TEST - VOLTAGE, step 1-8. 4. Check 12-volt power supply.

Continued on next page

1270,S20G10,0 -19-03JUL90

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MONITOR SPECIFICATIONS

GENERAL

COMPUTER TRAK 100 MONITOR

Alarm System	Individual Row Lamps and Audible Alarm
Circuit Protection	Two 3-Amp Fuses
Features	Tuning Seed Flow By Using a HI/LO Toggle Switch and Tuneable Knob

COMPUTER TRAK 150 MONITOR

Alarm System	Individual Row Lamps and Audible Alarm
Circuit Protection	One 3-Amp Fuse
Features	Tuning Seed Flow By Using a HI/LO Toggle Switch and Tuneable Knob

COMPUTER TRAK 200 MONITOR

Alarm System	Liquid Crystal Display and Audible Alarm
Circuit Protection	Two 3-Amp Fuses
Measurement System	English and Metric
Distance Sensor	Radar Unit
Features	HI/LO Population Warning, Area Planted Count Up, Population Scan With Elective MIN/AVG/MAX Updates, Speed Indicator and Individual Row Selection

COMPUTER TRAK 250 MONITOR

Alarm System	Liquid Crystal Display and Audible Alarm
Circuit Protection	One 1-Amp Fuse One 5-Amp Fuse
Measurement System	English and Metric
Distance Sensor	Radar Unit
Features	HI/LO Population Warning, Total Area Planted Count Up, Population Scan With Elective MIN/AVG/MAX Updates, Seed Spacing Scan With Elective MIN/AVG/MAX Updates, Speed Indicator, and Individual Row Selection

COMPUTER TRAK 300 MONITOR

Alarm System	Liquid Crystal Display and Audible Alarm
Circuit Protection	Two 5-Amp Fuses
Measurement System	English and Metric
Distance Sensor	Radar Unit
Features	HI/LO Population Warning, Total and Individual Area Planted Count Up, Population Scan With Elective MIN/AVG/MAX Updates, Seed Spacing Scan With Elective MIN/AVG/MAX Updates, Speed Indicator, and Individual Row Selection

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INCH CAP SCREW TORQUE VALUES

SAE Grade	Head Markings	SAE Grade	Nut Markings
SAE GRADE 1		2	
SAE			

SAE Grade	Head Markings	SAE Grade
SAE GRADE 5		5
SAE		Nut Markings

SAE Grade	Nut Markings	SAE Grade
SAE GRADE 8		8
SAE		Nut Markings

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PREPARE FOR FIELD TEST



-UN-14OCT88
A22303

Before going to the field, study the operator's manual and all related information in this technical manual to familiarize yourself with the monitor.

Take along the following equipment:

Deluxe Test Unit or Standard Test Unit and Volt-Ohm Meter
Hundred ft. (30 m) tape measure
Marking flags
Marking tape
10 in. (255 mm) long chains with S-hooks
Seven and 12 in. (175 and 305 mm) tie straps
Sensor brush
Pocket calculator
Planter and Monitor Operator's Manual
Technical Manual

1270,S10G10,0 -19-03JUL90



-UN-14OCT88
A22304

At the field, talk with operator that is having the problem. List any problems.

Go over the operator's manual to be sure the proper instructions are being followed.

Observe monitor readouts yourself. Make notes of all information.

Compare your notes with operator's notes for any differences.

Completely test console with test unit to make sure it is working properly. Refer to proper section in this manual.

If a gasoline engine tractor is used, ignition suppressors MUST be installed.

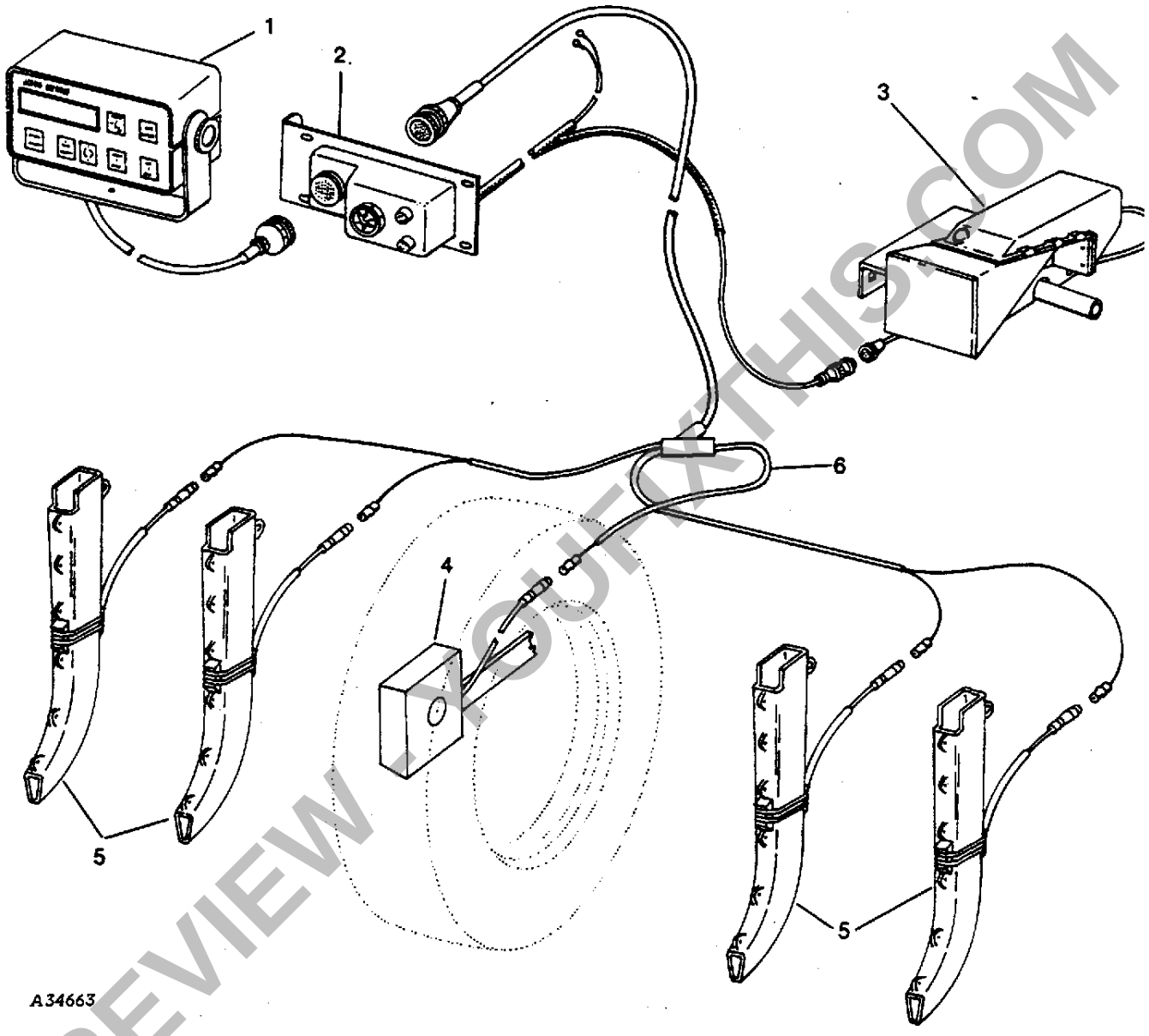
Clean and check seed sensors.

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COMPUTER TRAK SYSTEM COMPONENT LOCATION DRAWING 7000 AND 7100 PLANTERS (-1987)



1—Console
2—Power Supply
3—Radar Sensor*
4—Distance Sensor*
5—Tube
6—Harness, Wiring

*Either radar or wheel sensor are used individually.

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RECOGNIZE SAFETY INFORMATION

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

Follow recommended precautions and safe operating practices.



T81389 -UN-07DEC88

1270,S05G5,0 -19-03JUL90

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 -19-04JUN90

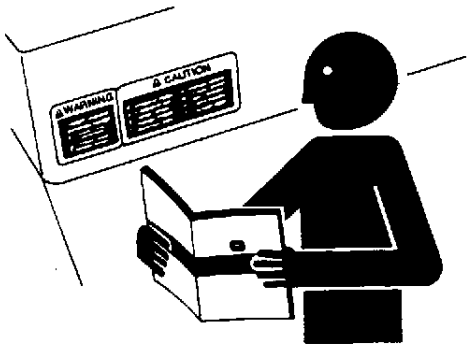
FOLLOW SAFETY INSTRUCTIONS

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 -19-04JUN90

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Introduction

FEATURES OF THIS TECHNICAL MANUAL

John Deere ILLUSTRUCTION format emphasizing more detailed pictures and fewer words.

Instructions and illustrations grouped together in easy-to-use modules.

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

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



A27316 -UN-14OCT88

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1270,SINT,0 -19-03JUL90

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AFTER-SALE INSPECTION

The purchaser of a new John Deere Planter is entitled to an inspection by the dealer at some mutually agreeable time within the warranty period.

The purpose of this inspection is to make certain the customer is receiving satisfactory performance from the planter. The inspection should reveal whether or not the planter is being operated, lubricated, and serviced properly.

With this recommended after-sale service inspection, you may eliminate needless service work by preventing minor irregularities from developing into serious problems later. This will promote strong dealer-customer relations and present you with an opportunity to answer questions that may have arisen.

Use this inspection period to acquaint the customer with any special attachments which will help him do a better job with his machine.

1270,S5G25,10 -19-03JUL90

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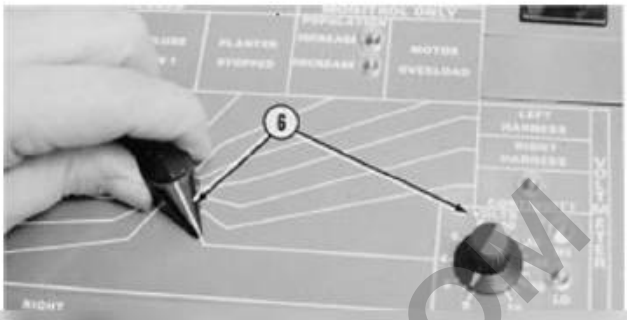
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	FUSE OK: Go to ❸ FUSE NOT OK: Go to ❹ 1270,S20G20,10 -19-03JUL90
❸ **CONSOLE POWER LEAD CHECK**	 H42176 -UN-20JUN90 Inspect console power leads and console power connector for damage. Are they OK?
	YES: Replace console. **NO:** Repair as required. 1270,S20G20,15 -19-03JUL90
❹ **3-AMP FUSE BLOWN**	Disconnect planter harness, replace fuse and retest. Does unit work now?
	YES: Go to ❼ **NO:** Go to ❺ 1270,S20G20,20 -19-03JUL90
❺	Is 3-amp fuse blown again?
	YES: Go to ❻ **NO:** Replace console. 1270,S20G20,25 -19-03JUL90

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6. Turn selector switch to VOLTS position.



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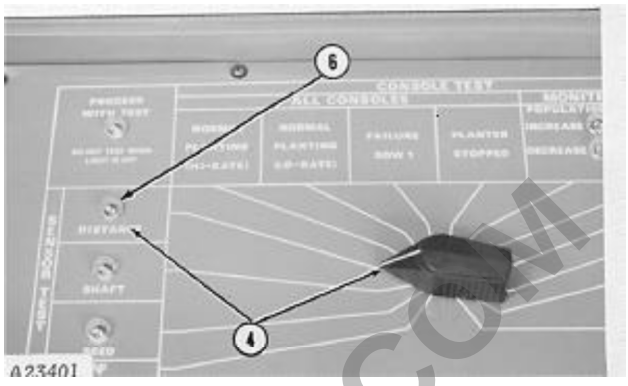
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4. Turn selector switch to SENSOR TEST - DISTANCE.

5. Slowly turn distance wheel. (Tractor can be driven at 2-3 mph (3-5 km/h).

6. Distance light should go on and off evenly. This indicates the distance wheel sensor and harness are working, but the power module or console may be defective. If no signal was received, the sensor or harness has a problem. Go to TEST 3.



-UN-14OCT88 A23401

1270,S30G10,15 -19-03JUL90

DISTANCE WHEEL - TEST 3

To isolate the distance wheel, proceed as follows:

Disconnect distance wheel lead from planter harness.

Attach sensor lead adapter to planter harness and connect red and black adapter leads to HARNESS LEAD on test unit.

Attach sensor lead adapter to distance wheel lead and connect red and black adapter leads to SENSOR LEAD on test unit.

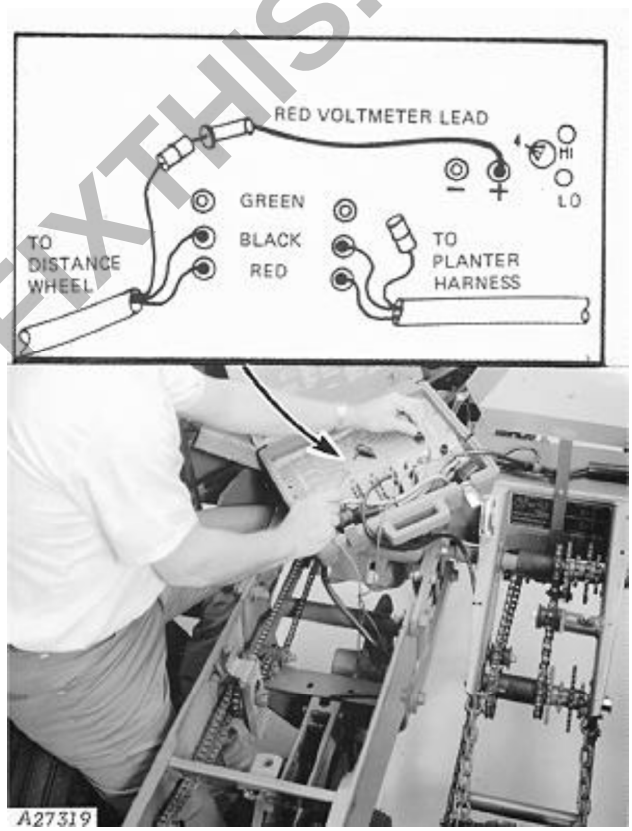
Green “PROCEED WITH TEST” light MUST come on.

Attach the red (+) voltmeter lead to the test unit (+) socket and connect other end of red lead to the green sensor lead from distance wheel.

Set the test unit selector to VOLTS and voltmeter dial to 4 volts.

The HI and LO lights should alternate as the wheel is turned.

The sensor signal varies from approximately +1 to +8 volts as each slot in the 56 slot disk moves between the sides of the sensor unit.



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1270,S30G10,20 -19-03JUL90

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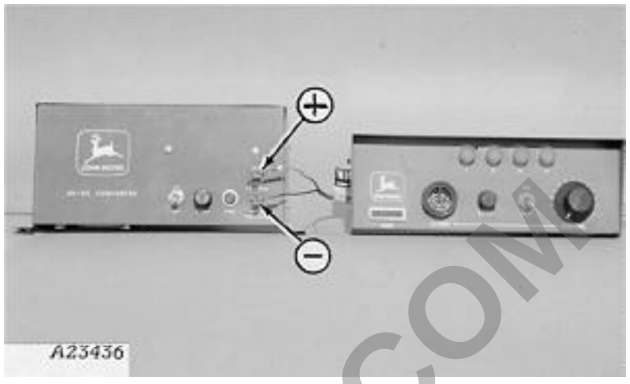
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CONNECT POWER

If possible, perform the test with console connected to the tractor on which it is used. If not, attach battery leads to a well-charged 12-volt battery or to a John Deere 120V AC-12V DC Converter.

Make certain the positive (+) console power lead goes to the positive terminal and the negative (-) lead goes to the negative terminal. Also, be certain the console has a good fuse.

IMPORTANT: Never use a battery charger for a power supply. If the battery you intend to use is connected to a charger, disconnect the charger during the test.



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A23436

1270,S50G5,0 -19-03JUL90

TEST LOW RATE

1. Connect console plug to test unit.

2. Test unit switch must be on CONSOLE TEST.

3. Turn tuning knob completely counterclockwise.

4. Turn console power switch to ON.

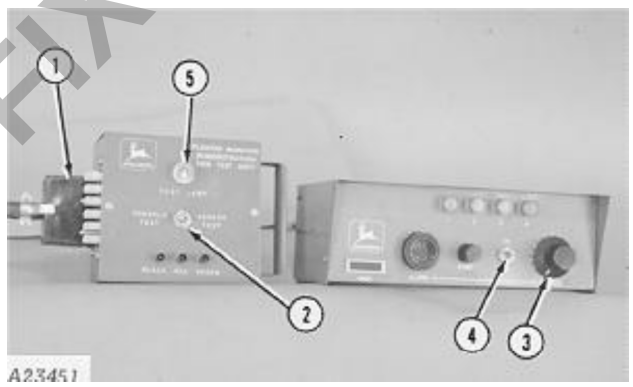
5. Test unit lamp must light. If test unit lamp does not light:

   A. Check test unit lamp.

   B. Be sure console is connected to 12 volts.

   C. Check console to plug cable to be certain it is not damaged.

   D. See “CHECK SHORT LAMP” in this group.



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A23451

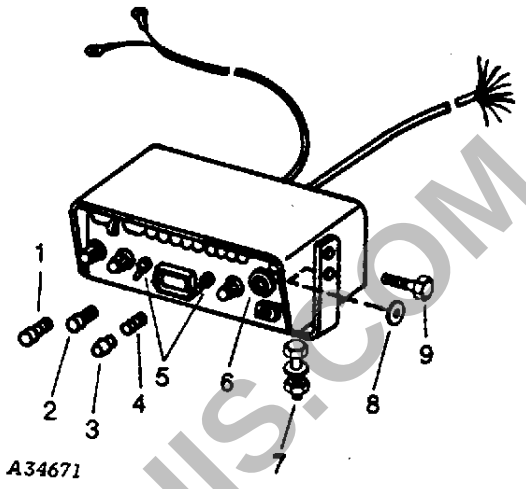
1270,S50G10,0 -19-03JUL90

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POPULATION MONITOR LOCATION DRAWING (GREEN MONITOR)

1—Bezel (B32207)
2—Bulb (B32205)
3—Cap
4—Fuse (B32206)
5—Switch, Toggle
6—Alarm, Audible
7—Screw, Cap, 5/16 x 1 In.
8—Washer
9—Screw, Cap, 5/16 x 1/2 In.

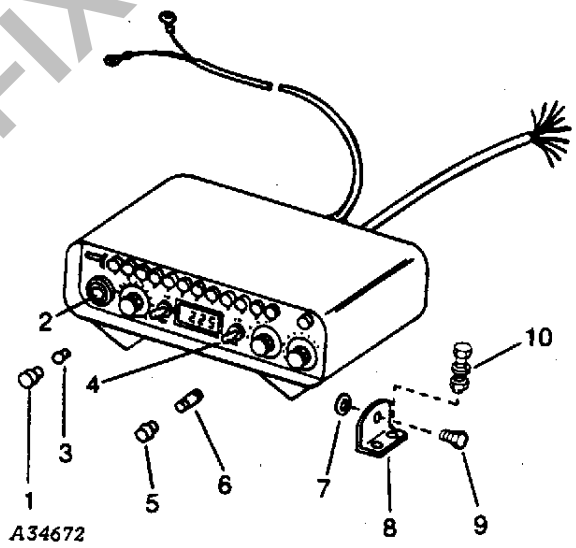


A34671 -UN-10OCT88

1270,S60G00,0 -19-03JUL90

BLACK MONITOR

1—Bezel (B32207)
2—Alarm, Audible
3—Bulb (B32205)
4—Switch, Toggle
5—Cap
6—Fuse (AH65594)
7—Washer
8—Bracket
9—Screw, Cap, 5/16 x 1/2 In.
10—Screw, Cap, 5/16 x 1 In.



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1270,S60G00,5 -19-03JUL90

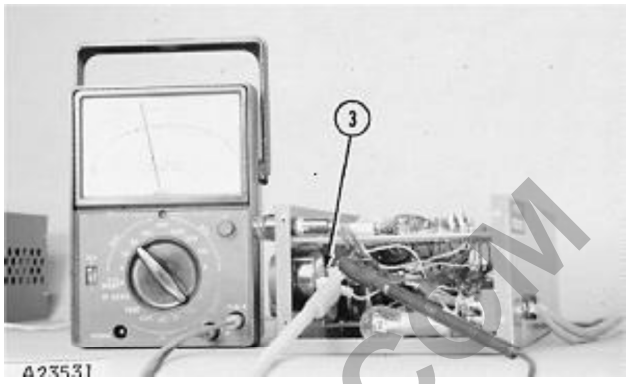
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3. If there are 12 volts at the alarm terminals and the alarm is not sounding, the alarm is defective.

If low or no voltage is present, the console is defective.

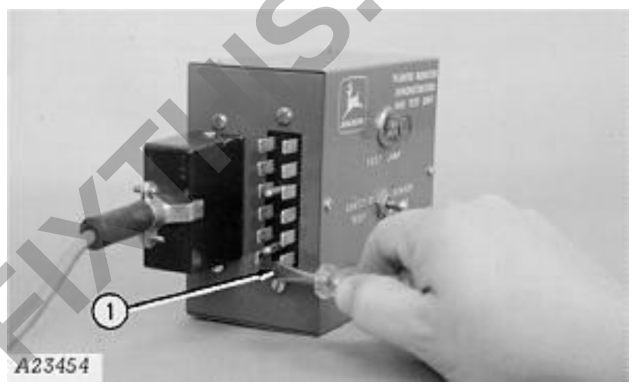


1270,S60G15,65 -19-03JUL90

CHECK SHORT LAMP

(4-, 6- AND 8-ROW CONSOLES ONLY)

1. Use a screwdriver to short across the bottom terminals.



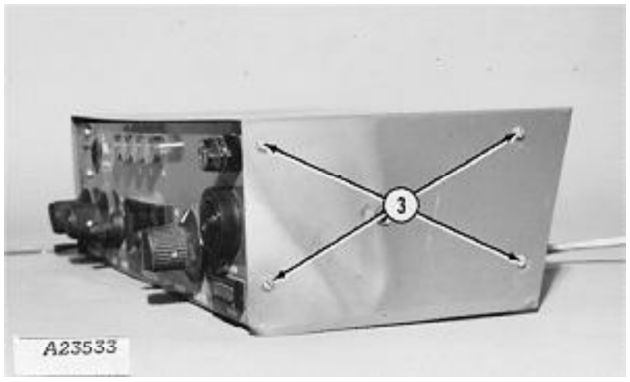
1270,S60G20,20 -19-03JUL90

2. The short lamp must light up.



1270,S60G15,75 -19-03JUL90

3. If the short lamp does not light up, remove the cover by removing the screws on each end of the console.

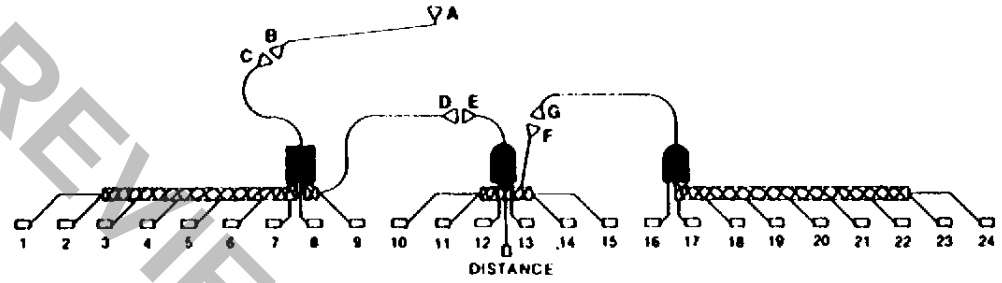


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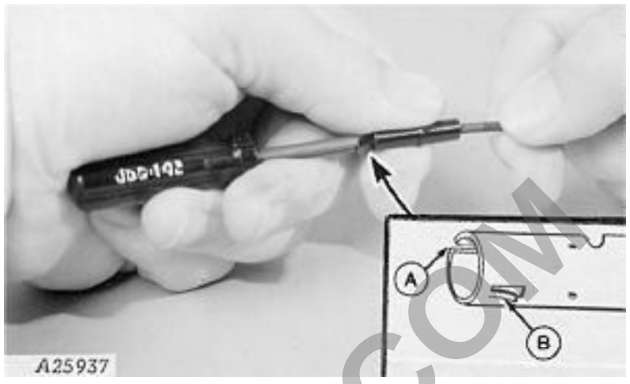
"A" Pin No.	Function	Wire Color	"B" Pin No.	"C" Pin No.	Wire Color To Potted Junction	Wire Color From Potted Junction	"D" Pin No.	"E" Pin No.	Wire Color To Potted Junction	Wire Color From Potted Junction	"F" Pin No.	"G" Pin No.	Wire Color To Potted Junction	Wire Color From Potted Junction
1	Row 1 Signal	Green	1	1	Green	Green	-	-	-	-	-	-	-	-
2	Row 2 Signal	Brown	2	2	Brown	Green	-	-	-	-	-	-	-	-
3	Row 3 Signal	Blue	3	3	Blue	Green	-	-	-	-	-	-	-	-
4	Row 4 Signal	Orange	4	4	Orange	Green	-	-	-	-	-	-	-	-
5	Row 5 Signal	Yellow	5	5	Yellow	Green	-	-	-	-	-	-	-	-
6	Row 6 Signal	Violet	6	6	Violet	Green	-	-	-	-	-	-	-	-
7	Row 7 Signal	Gray	7	7	Gray	Green	-	-	-	-	-	-	-	-
8	Row 8 Signal	Pink	8	8	Pink	Green	-	-	-	-	-	-	-	-
9	Row 9 Signal	Tan	9	9	Tan	Green	-	-	-	-	-	-	-	-
10	Row 10 Signal	White/Black	10	10	White/Black	Green	10	10	Green	Green	-	-	-	-
11	Row 11 Signal	Red/Black	11	11	Red/Black	Brown	11	11	Brown	Green	-	-	-	-
12	Row 12 Signal	Green/Black	12	12	Green/Black	Blue	12	12	Blue	Green	-	-	-	-
13	Row 13 Signal	Orange/Black	13	13	Orange/Black	Orange	13	13	Orange	Green	-	-	-	-
14	Row 14 Signal	Blue/Black	14	14	Blue/Black	Yellow	14	14	Yellow	Green	-	-	-	-
15	Row 15 Signal	Black/White	15	15	Black/White	Violet	15	15	Violet	Green	-	-	-	-
16	Row 16 Signal	Red/White	16	16	Red/White	Gray	16	16	Gray	Green	16	16	Green	Green
17	Row 17 Signal	Green/White	17	17	Green/White	Pink	17	17	Pink	Brown	17	17	Brown	Green
18	Row 18 Signal	Blue/White	18	18	Blue/White	Tan	18	18	Tan	Blue	18	18	Blue	Green
19	Row 19 Signal	Black/White	19	19	Black/White	White/Black	19	19	White/Black	Orange	19	19	Orange	Green
20	Row 20 Signal	White/Red	20	20	White/Red	Red/Black	20	20	Red/Black	Yellow	20	20	Yellow	Green
21	Row 21 Signal	Orange/Red	21	21	Orange/Red	Green/Black	21	21	Green/Black	Violet	21	21	Violet	Green
22	Row 22 Signal	Blue/Red	22	22	Blue/Red	Orange/Black	22	22	Green/Black	Gray	22	22	Gray	Green
23	Row 23 Signal	Red/Green	23	23	Red/Green	Blue/Black	23	23	Green/Black	Pink	23	23	Pink	Green
24	Row 24 Signal	Orange/Green	24	24	Orange/Green	Black/White	24	24	Green/Black	Tan	24	24	Tan	Green
26	Distance	White	26	26	White	Red/White	26	26	Green/Black	Green	-	-	-	-
27	+8 Volts	Red	27	27	Red	Red	27	27	Red	Red	27	27	Red	Red
28	Ground	Black	28	28	Black	Black	28	28	Black	Black	28	28	Black	Black

A23600

COMPUTER TRAK 24-ROW NARROW FOLDING HARNESS

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SOCKET—Push socket into housing as far as it will go. Align tool tip so it is opposite the socket seam (A). Push tool into housing as far as possible, depressing locking lance (B). Pull wire to remove socket.



1270,S70G10,35 -19-03JUL90

CPC CONNECTORS

Insert the sleeve of JDG-40 extraction tool over the pin or socket. Allow the push rod to back out during insertion. Rotate the tool to release the locking lances. Hold the sleeve down firmly and depress the push rod to eject the contact.

Refer to the appropriate wire color chart for the harness being repaired. Refer to Group 05 in this section.



1270,S70G10,40 -19-03JUL90

REPLACE CPC BLADE TYPE CONNECTORS

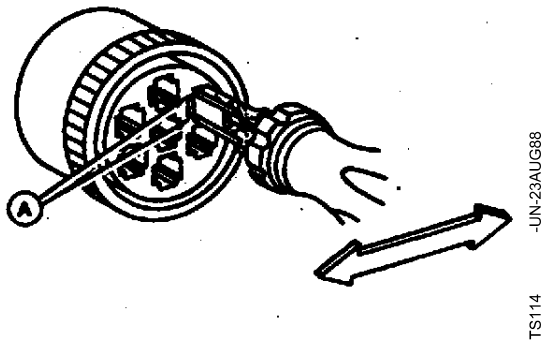
IMPORTANT: Wiggle extraction tool ONLY in direction shown to fully seat tool in connector.

1. Push tip (A) of JDG141 Extraction Tool into terminal offsets until tips bottom in connector.

2. Pull wire to remove contact from connector.

3. Insert wire in correct terminal of new connector.

4. Transfer remaining wires to correct terminal on new connector.



DX,ECONN,G -19-04JUN90

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