Group 20 - Calibration and Adjustments
Group 25 - Theory of Operation
Section 290 - OPERATOR STATION OPERATION AND TESTS
Group 05 - Operational Checks
Group 10 - System Diagnosis
Group 25 - Theory of Operation
Section 299 - DEALER FABRICATED TOOLS
Group 05 - Dealer Fabricated Tools
Group 15 - Test Kits

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

CCU 061 - Hydraulic Oil Level Low When Engine Started

11

Service code indicates a low hydraulic oil reservoir condition, a problem with the hydraulic oil reservoir level switch, or a problem with the harness.

The following test is used to trouble shoot this service code. Refer to manual links for supporting information.

CCU Test Procedure No. 7

CCU 064 - Axle Oil Pressure is Low

11

Service code indicates that with the PTO OFF, code 064 has been active for two minutes; or with PTO ON, the 4 second CCU delay timer has expired and the Stop Engine indicator is flashing.

The following test is used to trouble shoot this service code. Refer to manual links for supporting information.

CCU Test Procedure No. 7

CCU 065 - Axle Pressure is Low

11

Service code indicates that with the PTO OFF, code 065 has been active for two minutes; or with PTO ON, the 4 second CCU delay timer has expired and the Stop Engine indicator is flashing.

The following test is used to trouble shoot this service code. Refer to manual links for supporting information.

CCU Test Procedure No. 7

CCU 067 - CCU Sensor Power Circuit Fault

11

Service code indicates a failed sensor power fuse or a shorted circuit.

The following test is used to trouble shoot this service code. Refer to manual links for supporting information.

CCU Test Procedure No. 11

CCU 070 - Operator Not Seated with Rear PTO ON

11

Service code indicates that the operator was out of the seat while PTO engaged, a problem with the operator presence switch, or a problem with the harness.

The following test is used to trouble shoot this service code. Refer to manual links for supporting information.

CCU Test Procedure No. 9

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

(15) Field Installed GREENSTAR™ Cab Harness Circuits Check

Action:

Determine from step **(13)** above if;

- Battery voltage is not available on circuit 992, verify unswitched power supply by performing Field GREENSTAR™ Cab Harness Unswitched Power Test , Section 240 - Group 15.
- Battery voltage is not available on circuit 922 and CAN voltages not correct on circuits 904 and 905, verify switched power supply by performing Field GREENSTAR™ Cab Harness Switched Power Test , Section 240 - Group 15.
- CAN voltages are not correct but 12 volt measurements were present, perform GREENSTAR™ CAN Bus Diagnosis , Section 240 - Group 15.

Result:

YES: No problems found. GO TO **(12)** .

NO: Made necessary repairs. GO TO **(2)** .

(16) Field Installed Implement Ready Harness Troubleshooting

Action:

Determine from step **(13)** above if, when having the Implement Ready Harness (W91) connected to the GREENSTAR™ Cab Harness (W90), one of the following voltages are incorrect:

- Switched power (922) and CAN bus voltage
- CAN bus voltage with switched power available (904, 905)

Result:

YES: GO TO **(14)** .

NO: Loss of Switched power (922) and CAN bus voltage. GO TO **(17)** .

NO: Loss of CAN bus voltage with switched power available (904, 905). GO TO **(18)** .

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Engine Control Unit (ECU) Circuit Diagnosis 812
SCV 4 and 5 Control Unit (SCO) Circuit Diagnosis 813
Performance Monitor Operational Information 814
Performance Monitor Features 814
Performance Monitor Normal Operating Mode 816
Performance Monitor Set Mode 831
Performance Monitor Input—Output Signals 841
Corner Post Display 841
Armrest Control Unit (ACU) Circuit Wiring Harness Diagram 843
ACU Component Location/Harness Routing 846
Armrest Control Unit (ACU) Circuit 849
Armrest Control Unit (ACU) Diagnostic Code Numbers 856
ACU Diagnostic Code Numbers 858
Clear Codes 858
ACU Diagnostic Code Numbers 859
ACU Test Procedure No. 02 861
System Diagnostic (‘Beep”) Mode (ACU) 862
Access System Diagnostic (‘Beep”) Mode (02) 865
Operate Armrest Controls (Switch Type) 865
Operate Armrest Controls (Potentiometer Type) 865
Throttle Lever Command Test 865
Throttle Lever Command 869
Throttle Lever Command (Continued) 869
Throttle Lever Command Harness Check 869
Transmission Lever Position Test 869
Transmission Lateral Lever Position (Park and Neutral) 876
Transmission Lateral Lever Position (Reverse) 876
Transmission Lateral Lever Position (Forward) 876
Transmission Lever Position Test 876
Transmission Forward and Rearward Lever Position (Neutral) 883
Transmission Forward and Rearward Lever Positions 883
Transmission Forward and Rearward Lever Positions 883
Hitch Raise/Lower Rocker Switch Test 883
Hitch Raise/Lower Rocker Switch 885
Hitch Raise/Lower Rocker Switch (Raise) 885
Hitch Raise Lower Rocker Switch (Lower) 885
Hitch Load/Depth Control Potentiometer Test 886
Minimum Load Sensitivity (CCW) 890
Maximum Load Sensitivity (CW) 890
Hitch Control Lever Potentiometer Test 890
Hitch Raise Command Voltage 894
Hitch Lower Command Voltage 894
Hitch Raise Limit Control Potentiometer Test 894
Raise Limit Control Potentiometer Voltage (CCW) 898
Raise Limit Control Potentiometer Voltage (CW) 898
Hitch Rate-of-Drop Control Potentiometer Test 898
Rate-of-Drop Control Potentiometer Voltage (CCW) 902
Raise Limit Control Potentiometer Voltage (CW) 902
SVC Control Switch Test 902
SCV Control Lever (Center) 912

PREVIEW - YOUFIXTHIS.COM

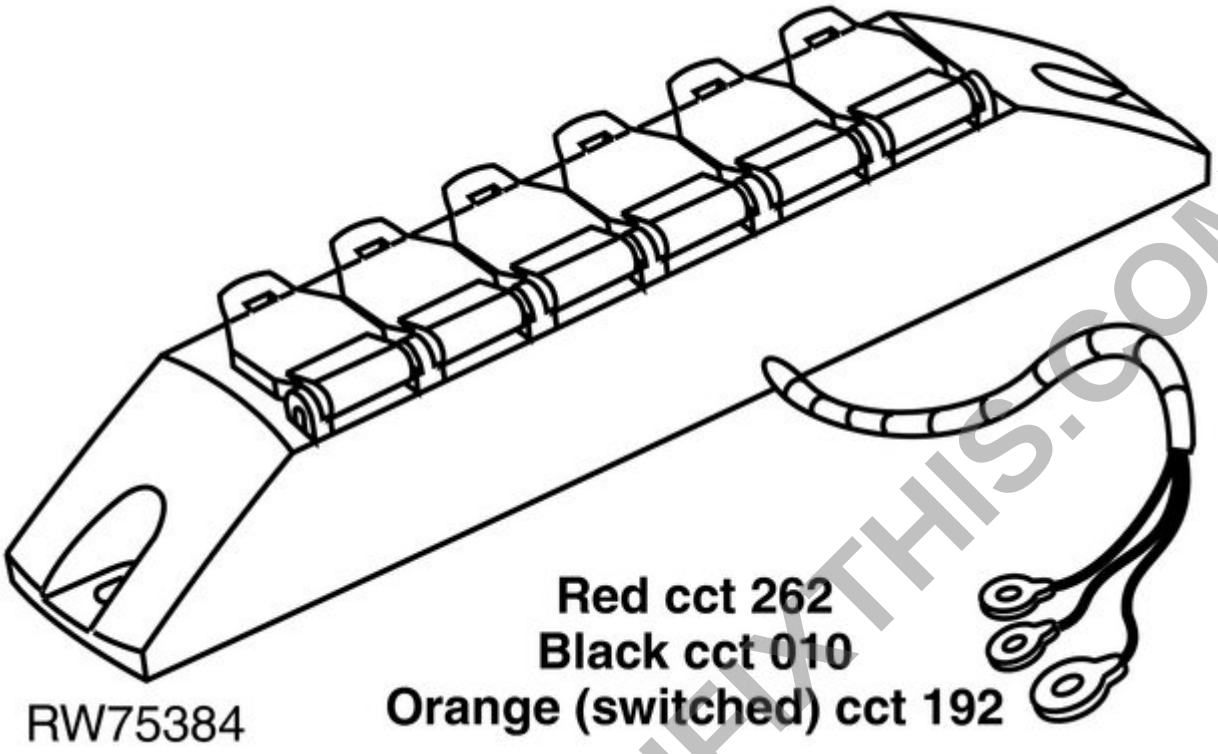
Download full manual at youfixthis.com

System Functional Schematic (SE15) (—030000), Power Shift Control Unit (PCU)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

X15—Auxiliary Power Strip



Auxiliary Power Strip

Auxiliary Power Strip

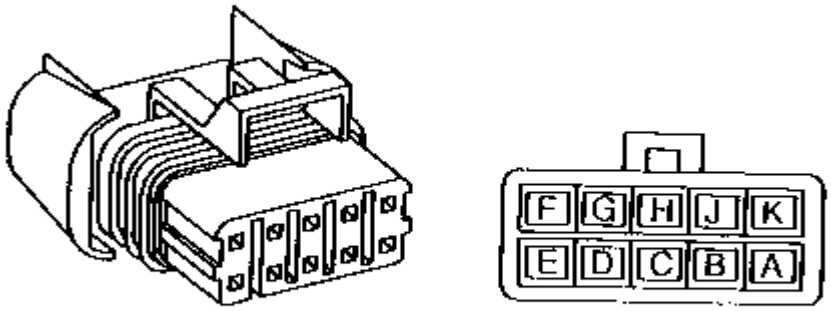
Terminal Number	Circuit Number	Wire Color/Size	Circuit Termination Points	
(-)		262	RD/14	X14
(-)		010	BK/14	X14
(-)		192	OR/12	X14

W13—Seat Harness

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

X40—Chassis Harness-to-SCV II and III Solenoids (W8,W9,W10)



Harness-to-SCV II and III Solenoids

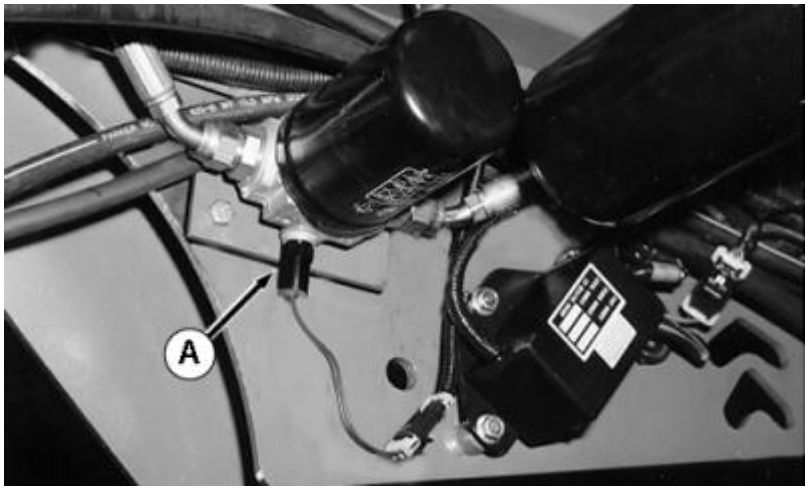
Harness-to-SCV II and III Solenoids

Terminal Number	Circuit Number	Wire Color/Size	Circuit Termination Points	
A		818	GY/18	A4X1
B		816	BL/18	A4X1
C		814	YL/18	A4X1
D		838	GY/18	A4X1
E		Spare		
F		Spare		
G		813	OR/18	A4X1
H		815	GN/18	A4X1
J		817	PU/18	A4X1
K		819	WH/18	A4X1

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Axle Lube Filter Restriction Sensor Circuit (PST Only)



Axle Lube Filter/Sensor

→NOTE:

Axle lube is a separate circuit on PST tractors and has its own filter. Axle lube is part of the transmission circuit on MST tractors and shares the transmission filter.

The axle lube filter restriction sensor circuit consists of the axle lube filter restriction sensor, hydraulic oil temperature sensor, engine speed sensor, CCU and ICU.

Axle Lube Filter Restriction Sensor The axle lube filter restriction sensor (A) is located at the bottom of the axle lube filter housing, inside the left front side frame. It is a pressure differential activated switch that closes at 280—320 kPa (2.8—3.2 bar) (40—46 psi) pressure differential and opens when pressure drops to 200—320 kPa (2.0—3.2 bar) (29—46 psi) pressure differential. When the switch closes, it sends a battery voltage signal directly to the CCU.

Hydraulic Oil Temperature Sensor The hydraulic oil/PST oil temperature (PST equipped tractors) sensor is a variable resistance sensor. Its resistance varies with temperature. Thus its output voltage, varies with changes in temperature. Output voltage decreases as oil temperature increases.

Engine Speed Sensor There is a camshaft and crankshaft magnetic speed sensor in the front of the engine. The ECU receives both engine speed signals for operation of the electronic governor and also sends the data to the CCU (via circuit 325) for use in various monitoring circuits and to display engine speed.

CCU The CCU receives the hydraulic oil temperature voltage signal directly from the sensor. It supplies a regulated +5 volts to the sensor as the sensors source voltage. It also receives

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

(1) Access System Diagnostic (“Beep”) Mode (“02”)

Action:



02/CCU Displayed

Operate the right turn signal to obtain ’02/CCU’ in the corner post display window.

Result:

YES: GO TO **(2)** .

(2) Operate Following Controls

Action:

Operate the following controls and listen for a ’beep’ to sound and an address number to be displayed when the switch is activated:

- **Rear PTO Lever (9)**
- **Warning Lights Switch (10)**
- **Remove & Install Fuse F14 (11)**

Result:

YES: GO TO **(3)** . to check additional controls.

NO: If no ’beep’ is heard, or address number displayed when a switch is operated, GO TO the address number for the specific device to check its operation. See ’CCU Circuit Diagnostic Addresses’, at the beginning of this test procedure.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

(2) Operate Controls (Switch Type)

Action:

Operate the following switch type controls and listen for a ’beep’ to sound and an address number to be displayed when the switch is activated:

Switch Type Controls

Switch	Test Procedure No.
Brake Pedal	3
Differential Lock Switch	3
Deceleration Switch	3
FIELDCRUISE™ Switch	5
Interval Wiper Switch	5
Light Switch	5

Result:

YES: GO TO **(3)** .

NO: If no ’beep’ is heard, or address number displayed when a switch is operated, GO TO the address number for the specific device to check its operation. See ICU Circuit Diagnostic Addresses, at the beginning of this test procedure.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

a. Calibrate ALL controls associated with ACU Address 20.
   See ACU Addresses , Section 240 - Group 20.
b. Cycle the ignition switch.
c. If diagnostic code ACU/003 returns, replace the ACU.

Result:

NO: See previous steps and perform necessary action.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

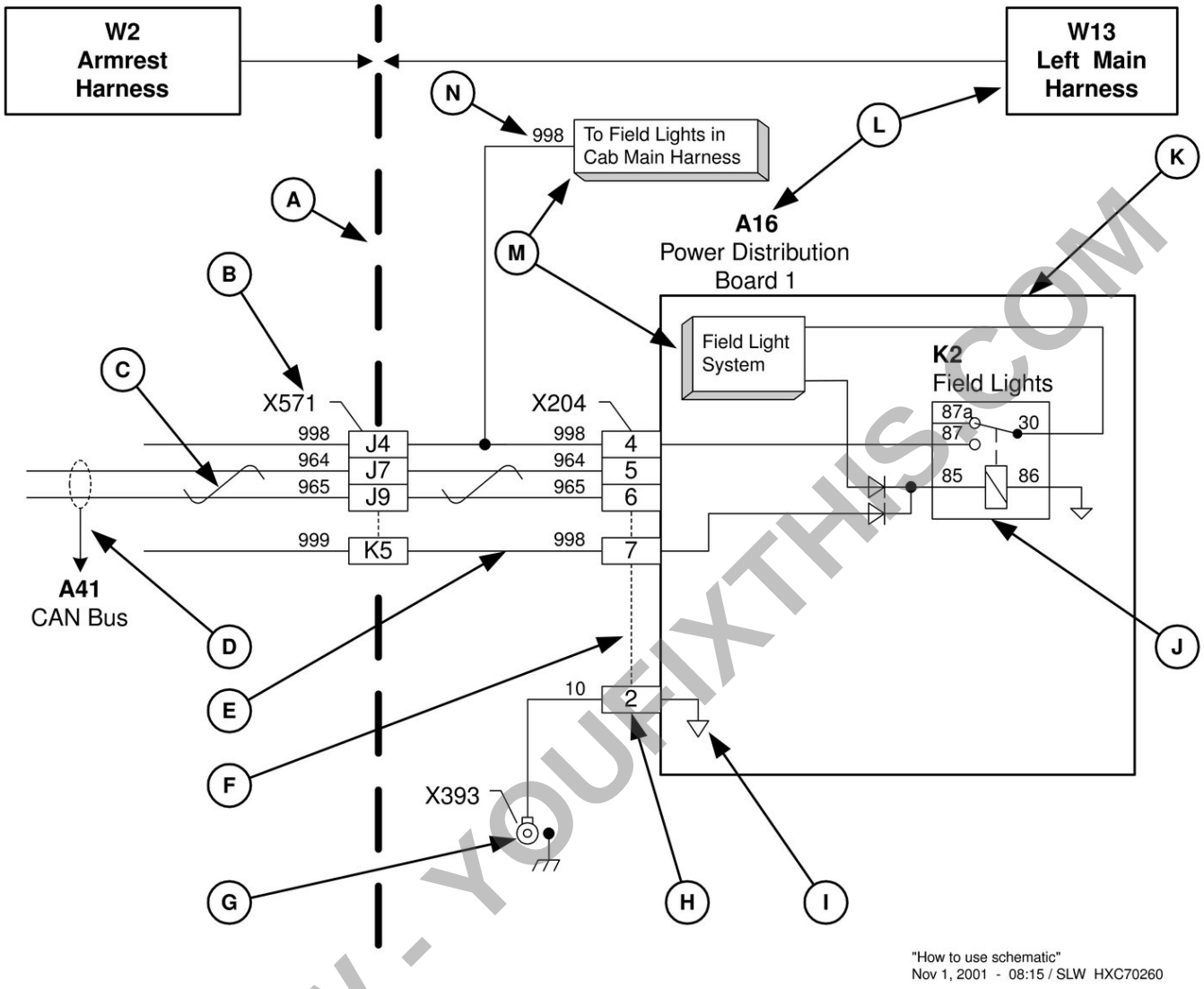
Lucas ECU Circuit Wiring Diagram (—019999)

LEGEND:

A5X1	30-Way CCU Connector (Lower) (A-K) (W8,W9,W10)
A5X2	30-Way CCU Connector (Upper) (L-Y) (W8,W9,W10)
A9	Engine Control Unit (ECU) (Lucas) (SE10B,W9,W10)
A9X1	36-Way ECU Connector (Lucas) (Upper-Black) (W9,W10)
A9X2	36-Way ECU Connector (Lucas) (Lower-Red) (W9,W10)
B32	Air Pressure Sensor (Lucas ECU) (SE10B,W9,W10)
B33	Air Temperature Sensor (Lucas ECU) (SE10B,W9,W10)
B34	Fuel Temperature Sensor (Lucas ECU) (SE10B,W9,W10)
B35	Engine Cam Speed Sensor (Lucas, JDECU Level 6 ECU) (SE10B-C,W9,W10)
B36	Engine Crank Speed Sensor (Lucas, JDECU Level 6 ECU)) (SE10B-C,W9,W10)
B37	Engine Coolant Temperature Sensor (Lucas ECU) (SE10B,W9,W10)
F12	Engine Control Unit, Actuator Solenoid (SE10,W6,W7)
F43	Engine Control Unit (Lucas, JDECU Level 6) (SE10B-C,W6,W7)
K19	Engine Control Unit (ECU) Relay (Lucas) (SE10B,W6,W7)
K32	Engine Control Unit Start-Up Relay (SE10B,W6,W7) (Lucas)
V1	Diode Block No. 1 (SE1,SE5,SE15,W6,W7)
W1	Single Point Ground (SPG) (Cct. 050)
W26	Fuel Injection Units Harness (Lucas ECU)
X11	Cab Harness-to-Chassis Harness (78-Way) (W6,W7,W8,W9,W10)
X37	Engine Control Unit (ECU) CAN Connector (Lucas, 6-Way) (W8)
Y17	Cylinder No. 1 Control Solenoid (Lucas ECU) (SE10B,W26)
Y18	Cylinder No. 2 Control Solenoid (Lucas ECU) (SE10B,W26)
Y19	Cylinder No. 3 Control Solenoid (Lucas ECU) (SE10B,W26)
Y20	Cylinder No. 4 Control Solenoid (Lucas ECU) (SE10B,W26)
Y21	Cylinder No. 5 Control Solenoid (Lucas ECU) (SE10B,W26)
Y22	Cylinder No. 6 Control Solenoid (Lucas ECU) (SE10B,W26)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com



Schematic Information Identifier

LEGEND:

- A Harness end indicator
- B Connector identifier
- C Wires twisted in harness
- D Indicates other CAN Bus components
- E Wire in harness
- F Indicates terminals in same connector body
- G Frame ground connection
- H Connector terminal identifier
- I Electrical component internal ground
- J Replaceable electrical component
- K Electrical component assembly
- L Component identifier
- M Connection to another system
- N Circuit code number

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

(15) CAN Hi Voltage Check

Action:

Disconnect Passive CAN Bus Terminator connector X93.

Measure the voltage between Passive CAN Bus Terminator harness end, connector X93, cc# 904 (Yellow) and frame ground.

Is it between 1.5 and 3.5 VDC?

Result:

YES: GO TO **(16)** .

NO: GO TO **(20)** .

(16) CAN Lo Voltage Check

Action:

Disconnect Passive CAN Bus Terminator connector X93.

Measure voltage between Passive CAN Bus Terminator connector X93, harness end, cc# 905 (Green) and frame ground.

Is it between 1.5 and 3.5 VDC?

Result:

YES: GO TO **(17)** .

NO: GO TO **(19)** .

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

(6) License Level Check

Action:

Key Switch in the RUN position.

Press INFO button on GREENSTAR Display.

Press button next to **Position Receiver** on Page 1 or Page 2.

Press PAGE button to locate **License Level** .

One of the following entries will be displayed:

- **JDdif** .
- **NONE** .

Is License Level **NONE”?**

→NOTE:

NONE indicates the L-Band Receiver is not licensed to receive corrections from the STARFIRE™ Network.

Result:

YES: To purchase Differential Correction License call 1-888-GRNSTAR or access www.stellarsuppport.com to purchase correction signal. GO TO **(1)** .

NO: GO TO **(7)** .

(7) L-Band GPS Receiver Check

Action:

Is **JDdif** license acceptable for GREENSTAR products being used?

Result:

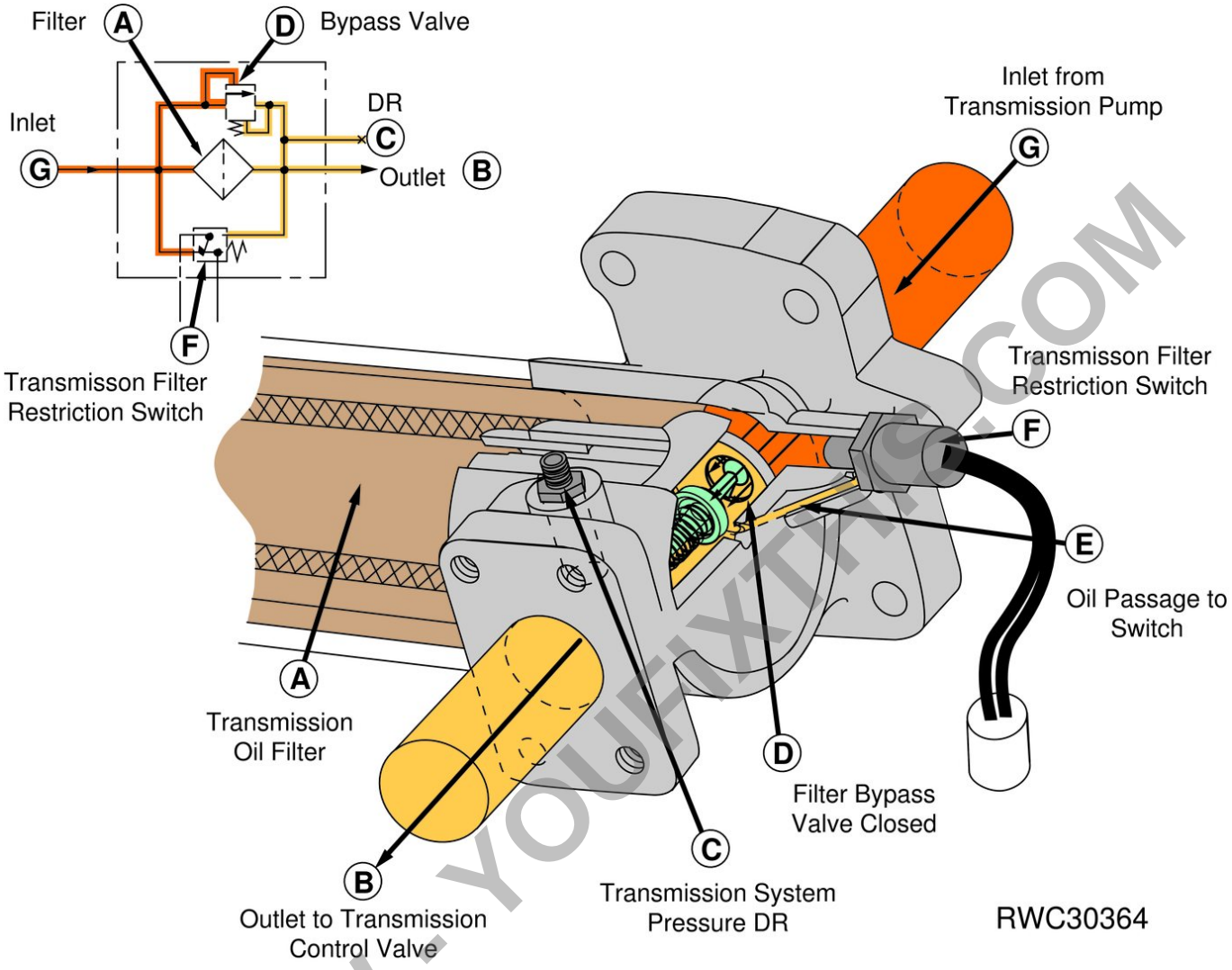
YES: GO TO **(8)** .

NO: Purchasing a STARFIRE ™ Receiver will improve accuracy. Return to GREENSTAR products and verify Correct Operation.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

The filter restriction switch and the hydraulic filter bypass switch are wired in parallel.



Oil Filter and Bypass Operation (Filter Being Bypassed)

LEGEND:

- A Transmission Oil Filter
- B Outlet to Transmission Control Valve
- C Transmission System DR
- D Filter Bypass Valve (Closed)
- E Oil Passage to Switch
- F Transmission Filter Restriction Switch
- G Inlet from Transmission Pump

The filter restriction switch sends a signal to the CCU when the differential pressure sensed by the switch reaches 3 bar (43 psi) for more than 3 seconds with the engine speed above 700 rpm and hydraulic oil temperature above 20 °C (68 °F).

The amber warning, transmission, and filter lights will appear along with an audible warning. A CCU Code 051 will be generated (transmission oil filter restricted).

The bypass valve opens to bypass the filter if the differential pressure increases to 4—6 bar

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

a. Remove hydraulic pump for inspection of seal.

[4] - Charge pump oil supply is from the hydraulic reservoir. Pump shaft seal leakage at front side can be forced by the rear axle lube pump seal and mix with oil going to the rear differential-axle housing.

a. Remove the axle lube pump for inspection of the front charge pump seal and rear axle lube pump shaft seal.

Hydraulic Oil Reservoir Over Full:

[1] - Operator adding oil.

a. Remove excess oil.

[2] - Connecting implements (used on another tractor) that had the cylinders extended.

[3] - Incorrect routing of return or vent hoses.

a. Check for correct routing of return and vent hoses.

Rear Differential-Axle Housing Oil Level Increases:

[1] - Operator adding oil.

a. Refer to the operators manual for correct oil fill procedure.

b. Remove excess oil.

[2] - Charge pump front shaft seal failure and the oil is forced past the rear axle lube pump shaft seal.

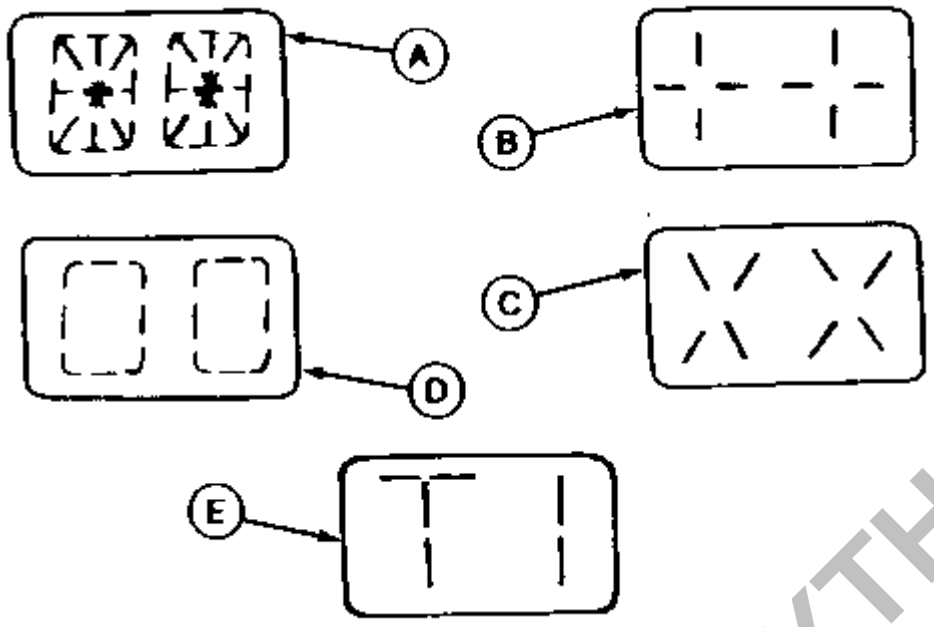
a. See ’Hydraulic Reservoir Oil Level Decreases’ above.

Miscellaneous Information: (PST Only)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Test T1—Gear Indicator Display Test



Gear Indicator Symbols

The gear indicator will immediately start displaying symbols whenever entering the diagnostic mode. The display should go through the following sequence:

Two 2 character codes will be displayed one time at power up, which identifies the program in the TCU. For example: The 9200 would be OA-60, the 9300 would be B7-AF, and the 9400 would be DF-37.

Four symbols (A, B, C and D) will be sequentially displayed followed by T1 (E), continuously, to verify the working condition of the LCD segments. The sequential readout will continue until the shift lever is moved to forward or reverse position.

→NOTE:

Test T1 is automatically performed and must be completed before test T2 can be selected. Both T1 and T2 must be completed before any remaining tests can be performed.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

F Sequence Valve
G Primary Valve
H PTO Drop Box
I Rear Differential Axle Housing
J Front Differential Axle Housing
K Filter
1 Sump
2 Air-Oil Mix
3 Return Oil

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Hydraulic System Operation (MST)

LEGEND:

A	Hydraulic Oil Cooler
B	Pump Drain Check Valve
C	Hydraulic Oil Filter
D	Hydraulic Filter Housing
E	Cooler Bypass Valve
F	Filter Bypass Switch
G	Filter Bypass Valve
H	Oil Temperature Sensor
I	Crankcase Relief Valve
J	Reservoir Vent
K	Fill Port
L	Oil Level Sensor
M	Main Hydraulic Pump
N	Priority Control Valve
O	Brake Valve
P	Brake Attenuators
Q	Front Axle
R	Steering Control Unit
S	Pressure Port DR ′P′
T	Load Sense DR ′L′
U	Return Port DR ′T′
V	Pilot Port DR ′P′
W	End Cover SCV/Hitch
X	SCV 1
Y	Hitch Pressure DR
Z	Hitch Valve
AA	SCV/Hitch Manifold
BB	Auxiliary Return (option)
CC	Auxiliary Pressure (option)
DD	Motor Crankcase Coupler (option)
EE	Rear Axle
FF	Hitch Cylinders
GG	Hydraulic Oil Reservoir

All MST models have a closed center, pressure and flow compensated hydraulic system with load sensing capabilities. This high pressure circuit does not have a charge circuit. Oil flowing by gravity from the hydraulic reservoir charges the main hydraulic pump. Separate hydraulic and transmission/axle circuits eliminate cross contamination of hydraulic oil. Each circuit has it′s own filter and oil cooler.

Lubrication for the transmission and supply oil for the PTO clutch, differential lock, axle cooling, and transmission control are part of the transmission circuit. Both axles and the PTO drop box are included in the transmission system. See Section 250, Manual Shift Transmission (12 and 24 Speed).

The hydraulic system is made up of three circuits:

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

3. Start engine and set speed at 1500 rpm.
4. Hold steering wheel at full turn and record steering ′CFD′ port pressure in chart below.
5. Close left manifold valve and open right valve one turn for ′PLD′ pressure. Hold steering wheel at full turn and record pump ′PLD′ port pressure in chart below.

- The difference between ′CFD′ steering pressure and ′PLD′ pump load sense pressure is the priority valve differential pressure or the priority valve spring force.
- The pressure at the ′CFD′ port with the tractor at full turn is also the steering relief pressure.

Item	Measurement	Specification
Priority Valve Differential Pressure		
Priority Valve Differential Pressure	Differential Pressure, Vickers Pump	500—900 kPa (5.0—9.0 bar) (75—130 psi)
	Differential Pressure, Sundstrand Pump	900—1280 kPa (9.0—12.8 bar) (130—185 psi)

Item	Measurement	Specification
Steering Load Sense Relief Pressure		
Steering Load Sense Relief Pressure	Relief Pressure	18000—18800 kPa (180—188 bar) (2600—2725 psi)

Typical Steering Relief Pressure

Typical Steering Relief Pressure

	Pressure	Typical Pressure
′CFD′ Port	———	2625 psi
′PLD′ Port	———	2525 psi
Differential Pressure	———	100 psi

Result:

YES: Differential and relief pressures normal. GO TO **(72)** .

NO: Differential pressure out of specification. Make note to replace priority valve spring after testing is completed. GO TO **(72)** .

NO: Relief pressure out of specification. GO TO **(71)** .

Download full manual at youfixthis.com
PREVIEW - YOUFIXTHIS.COM

(8) SCV Control in Center (Off) Position

Action:

Release SCV No. 2 control.

→NOTE:

SCV control should move back to center (Off) position.

The corner post display should read:

Corner Post Display

08
003

Result:

YES: SCV No. 2 control potentiometer is good. If a problem is still apparent, perform ACU Test Procedure No. 13 , Section 240, Group 15, or resume hydraulic/drive train diagnostic test if it was in progress prior to doing SCU Test Procedure No. 08.

NO: Perform ACU Test Procedure No. 13 , Section 240, Group 15, for SCV No. 2 control potentiometer.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

(1) Address Description

Action:

- Access HCU Address 78 to display the **first three digits** of the control unit part number.
- **HCU Address 79** displays the **last three digits** of the control unit part number.

Result:

YES: GO TO next address required.

HCU Addresses 82-83 - HCU Serial Number

Status Address

(1) Address Description

Action:

- Access HCU Address 82 to display the **first three digits** of the HCU serial number.
- **HCU Address 83** displays the **last three digits** of the HCU serial number.

Result:

YES: GO TO next address required.

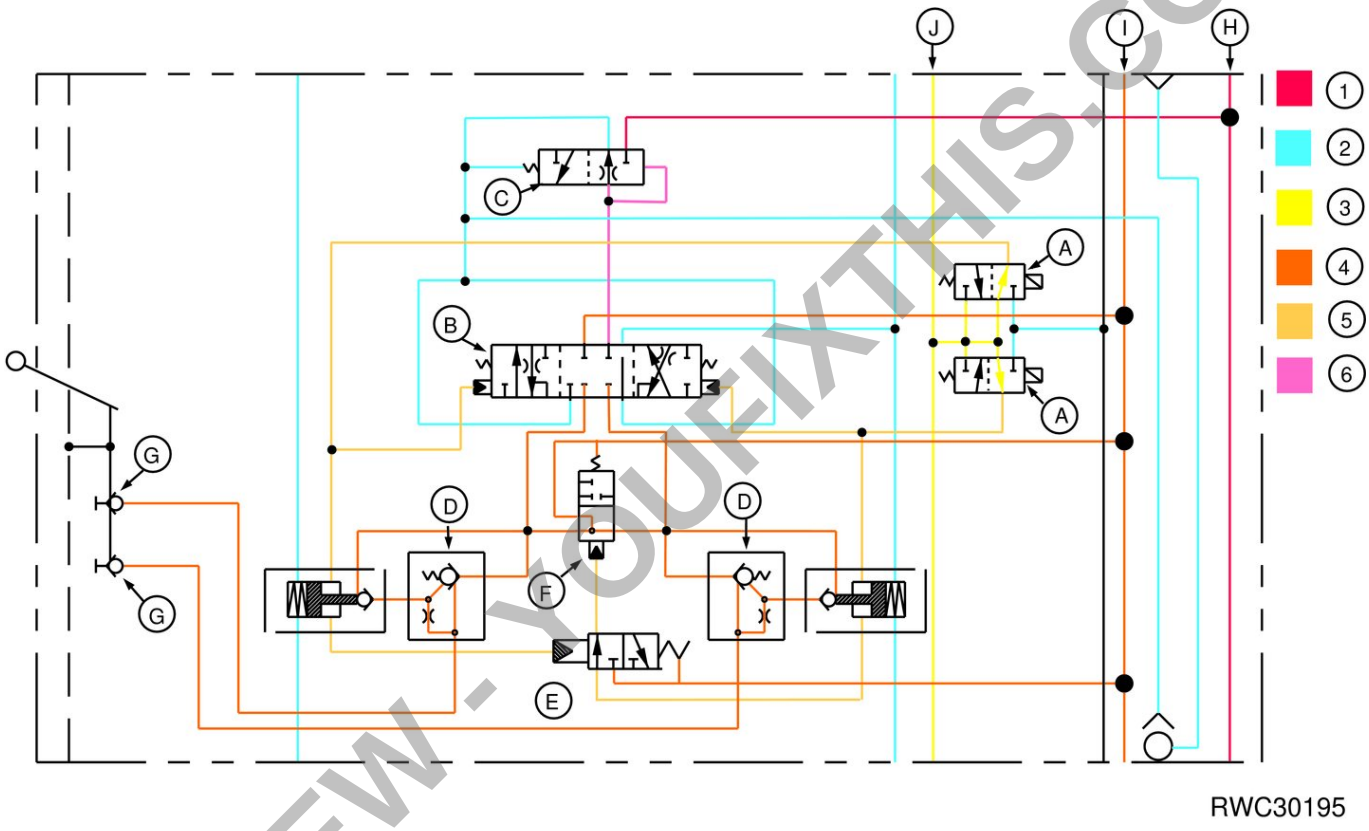
HCU Addresses 84-85 - HCU Software Part Number

Status Address

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

I Return Oil Port
J Pilot Oil Port
K Load Check Cartridge
L Extend Solenoid
M Retract Solenoid
1 High Pressure Oil
2 Sump Oil
3 Pilot Oil
4 Return Oil
5 Control Pressure Oil
6 Reduced Pressure Oil



RWC30195

SCV Float-JIC

LEGEND:

A Extend/Retract Solenoids
B Control Valve
C Compensator Valve
D Load Check Valves
E Trigger Valve
F Float Spool Valve
G Couplers
H Pressure Oil
I Return Oil
J Pilot Oil
1 High Pressure Oil
2 Sump Oil
3 Pilot Oil
4 Return Oil

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

(2) Water Valve Actuator Power/Ground Check

Action:

→NOTE:

See System Functional Schematic (SE3 and SE3A) —Climate Control System (ATC), Section 240 - Group 10 and CLIMATRAK™ (ATC) Circuit Drawing , Section 290 - Group 25.

- Key switch ON.
- Push VOLTS touch switch on ICU function selector.
- Connect black lead (-) of volt/ohm meter to terminal 7 (cct 050) of water valve connector.
- Connect red lead (+) of volt/ohm meter to terminal 10 (cct 225) of water valve connector.
- Compare ICU voltage to Volt/Ohm meter voltage reading.

Volt/ohm meter should match ICU voltage ± 1 VDC.

Result:

YES: Battery voltage good. GO TO **(6)** .

NO: No or low battery voltage. GO TO **(3)** .

(3) Water Valve Actuator Ground Circuit Check

Action:

Key switch ON.

Check water valve connector terminal 7 for continuity to frame ground on cct. 050. Circuit resistance should be less than 1 ohm.

Result:

YES: Cct. 050 good. GO TO **(4)** .

NO: No continuity to ground. Repair/replace as necessary. GO TO **(2)** .

PREVIEW YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 25 of 3305 pages

The full manual includes:

- All 3305 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

John Deere 9100, 9200, 9300, 9400 Diagnosis and Tests Technical Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual