AFS Planting and Seeding
Service Manual No. 7-91181
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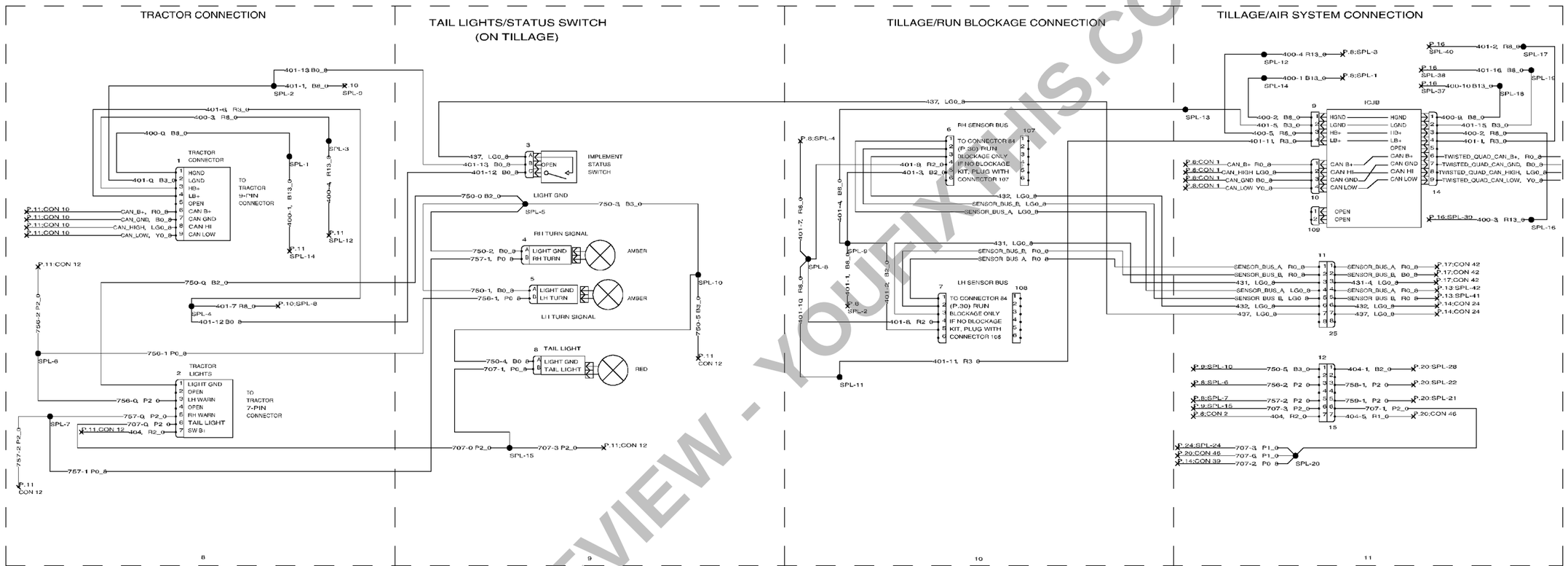
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Burlington, ON L7N 3M6 CANADA

Rac 7-91181

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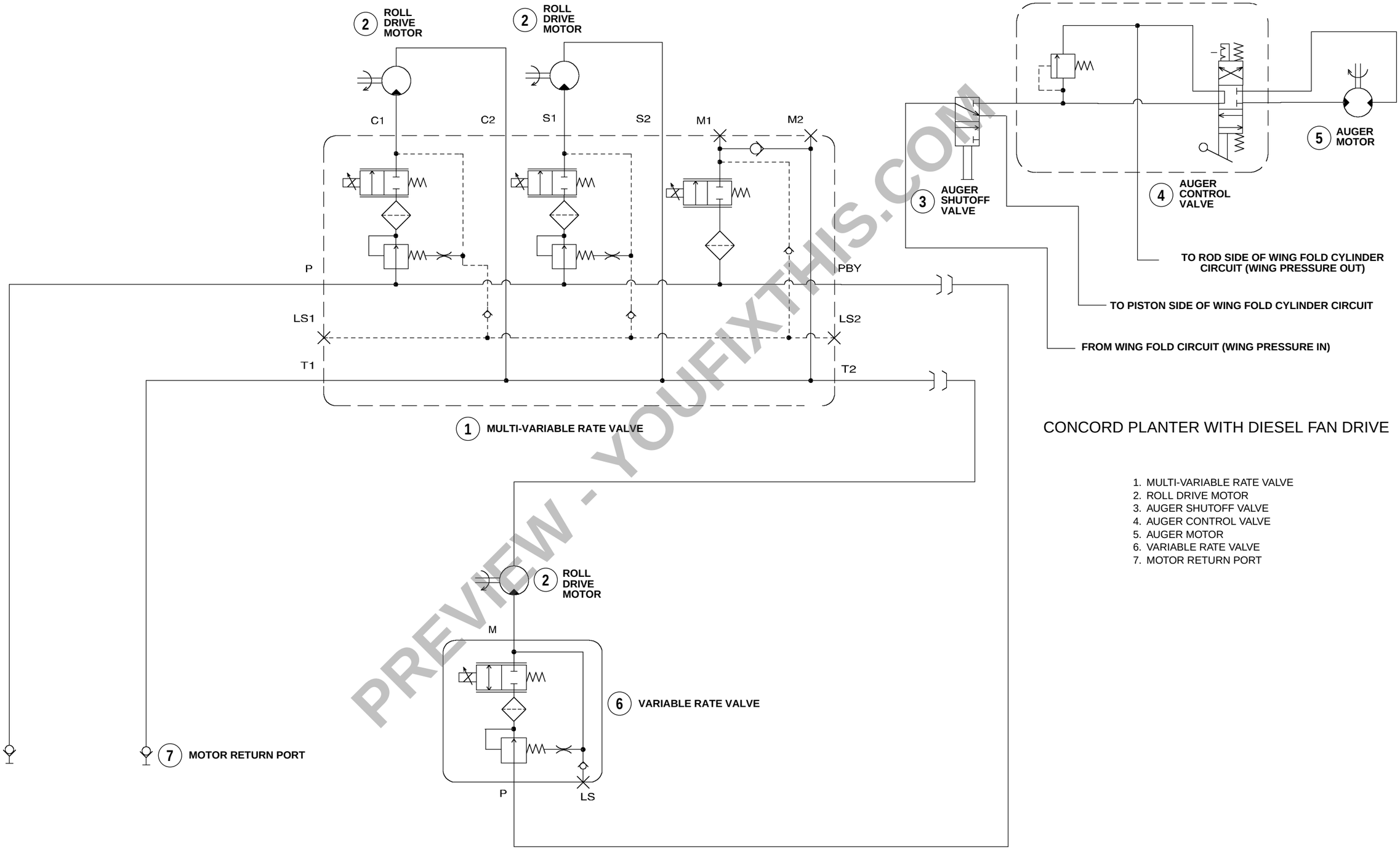
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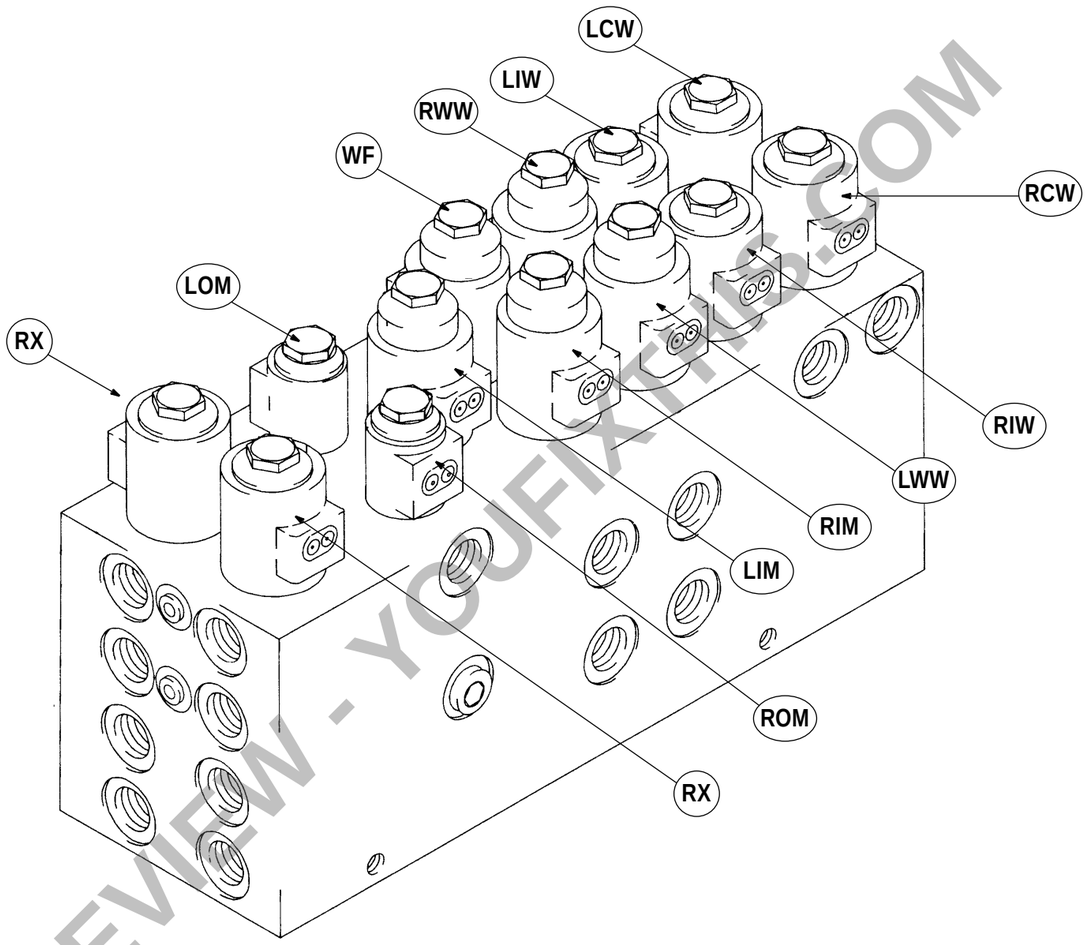
CONCORD PLANTER WITH DIESEL FAN DRIVE

1. MULTI-VARIABLE RATE VALVE
2. ROLL DRIVE MOTOR
3. AUGER SHUTOFF VALVE
4. AUGER CONTROL VALVE
5. AUGER MOTOR
6. VARIABLE RATE VALVE
7. MOTOR RETURN PORT

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SOLENOID LOCATIONS



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MIU CONTROLLER FAULT CODES

Fault Code MIU 3032

Service Tool Description:

Wheel Speed upper range fault wheel speed > 25 Miles per hour.

Meaning:

The wheel speed sensor has detected a wheel speed greater than 40 kilometers per hour (25 miles per hour).

Possible Failure Modes:

1. Implement has traveled faster than 40 kilometers per hour (25 miles per hour).
2. Wheel speed incorrectly calibrated and reads the incorrect speed.
3. The wheel speed sensor is not properly adjusted.

Background:

This error is used to limit the speed the system uses. If the speed greater than 40 kilometers per hour (25 miles per hour) for more than 5 seconds the error is logged. And the wheel speed is reported as 0. Wheel speed will start to be recorded again when a speed less than 40 kilometers per hour (25 miles per hour) continuously for 5 seconds.

Wiring Information:

NOTE: *Always inspect the connector ends for damaged, bent or dislocated pins when troubleshooting.*

Pin 1 --> Low power battery
Pin 2 --> Signal
Pin 3 --> Low power ground

Corrective Action:

STEP 1 Verify that the implement has gone over 40 kph (25 mph).

If the implement wheel speed has gone over 40 kph (25 mph) for at least 5 seconds this is a normal error.

STEP 2 Check wheel speed calibration number.

NOTE: *See Universal Display Operators Manual for entering value into system.*

Machine type	Tire Size	Default W Cal Value
955 Series Planter	11L x 15 Implement Tread	48.26
	31 x 13.5 -15 Implement Tread	48.26

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SYMPTOM BASED FAULTS

The Universal Display indicates the MIU is OFF

Meaning:
The Universal Display has detected that the MIU controller has stopped communicating.

Possible Failure Modes:

1. Loose connections.
2. The MIU is not powered.
3. The 9-pin implement connector is not connected properly.
4. Blown LB+ fuse.
5. Active terminator has failed.
6. Internal Universal Display problem.
7. Internal MIU problem.

Background:

The Universal Display monitors the status of the MIU. If the Universal Display does not receive messages from the MIU during a 2-second period, the Universal Display alarms the operator.

Wiring Information:

Power Connections
- At MIU
  - MIU J1-4 --> Low Current Ground
  - MIU J1-8 --> Low Current Battery
  - MIU J1-9 --> High Current Battery
- At 9-pin Implement Connector
  - Pin 1 --> High Current Ground
  - Pin 4 --> Low Current Battery

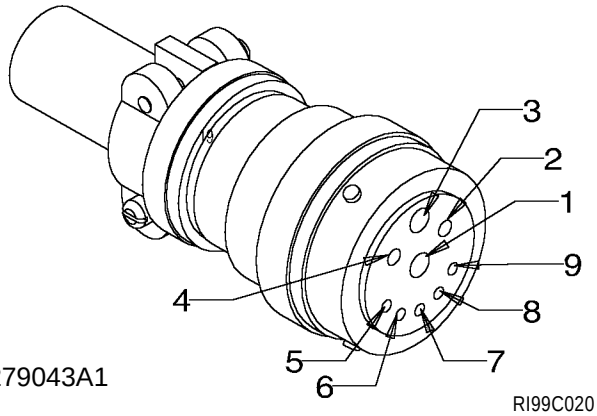
CAN connections
- At MIU
  - MIU J3-1 --> CAN High
  - MIU J3-12 --> CAN Low
- At Universal Display
  - Universal Display J1-7 --> CAN Low
  - Universal Display J1-8 --> CAN High
- At CAN Splice
  - Pin 1 --> CAN Battery
  - Pin 2 --> CAN High
  - Pin 3 --> CAN Ground
  - Pin 4 --> CAN Low
- At 9-pin Implement Connector
  - Pin 6 --> CAN Battery
  - Pin 7 --> CAN Ground
  - Pin 8 --> CAN High
  - Pin 9 --> CAN Low

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ELECTRICAL CONNECTORS

CONNECTOR NO. 1

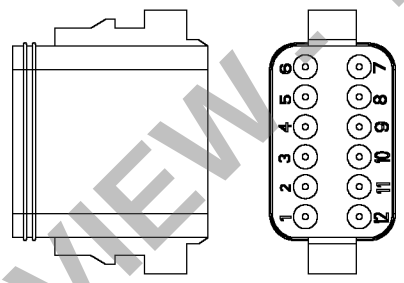


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PIN #	CAVITY	CIRCUIT REF
1	1	HGND
2	2	LGND
3	3	HB+
4	4	LB+
5	5	INTERNAL BRIDGE
6	6	CAN B+
7	7	CAN GND
8	8	CAN HIGH
9	9	CAN LOW

CONNECTOR NO. 2

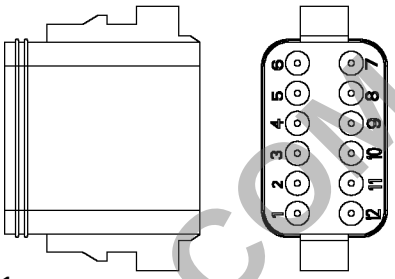


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RI99C021

PIN #	CAVITY	CIRCUIT REF
1	1	CAN HIGH
2	2	OPEN
3	3	WHEEL SPEED
4	4	OPEN
5	5	CONTROL INSTANCE IN
6	6	CONTROL INSTANCE OUT
7	7	INTERLOCK RELAY
8	8	IMPLEMENT INSTANCE IN
9	9	LEFT HAND WARNING
10	10	OPEN
11	11	OPEN
12	12	CAN LOW

CONNECTOR NO. 3

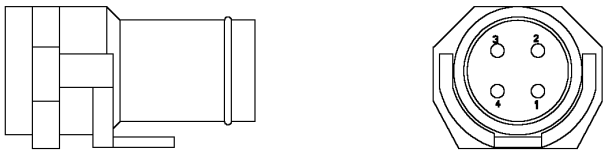


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RI99C021

PIN #	CAVITY	CIRCUIT REF
1	1	LEFT HAND ENHANCED
2	2	OPEN
3	3	INNER LEFT HAND MARKER
4	4	LB+
5	5	OPEN
6	6	SENSOR BUS B+
7	7	OPEN
8	8	H GND
9	9	H GND
10	10	LOAD CLAMP
11	11	OPEN
12	12	RIGHT HAND ENHANCED

CONNECTOR NO. 4



298496A1

RI99C022

PIN #	CAVITY	CIRCUIT REF
1	1	CAN B+
2	2	CAN HIGH
3	3	CAN GND
4	4	CAN LOW

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AFS PLANTER ELECTRICAL SYSTEM

General

The system consists of:

Monitor Interface Unit

Universal Display Unit / Universal Display Plus

Multi Channel Controller

Service Tool Port

Case Data Bus

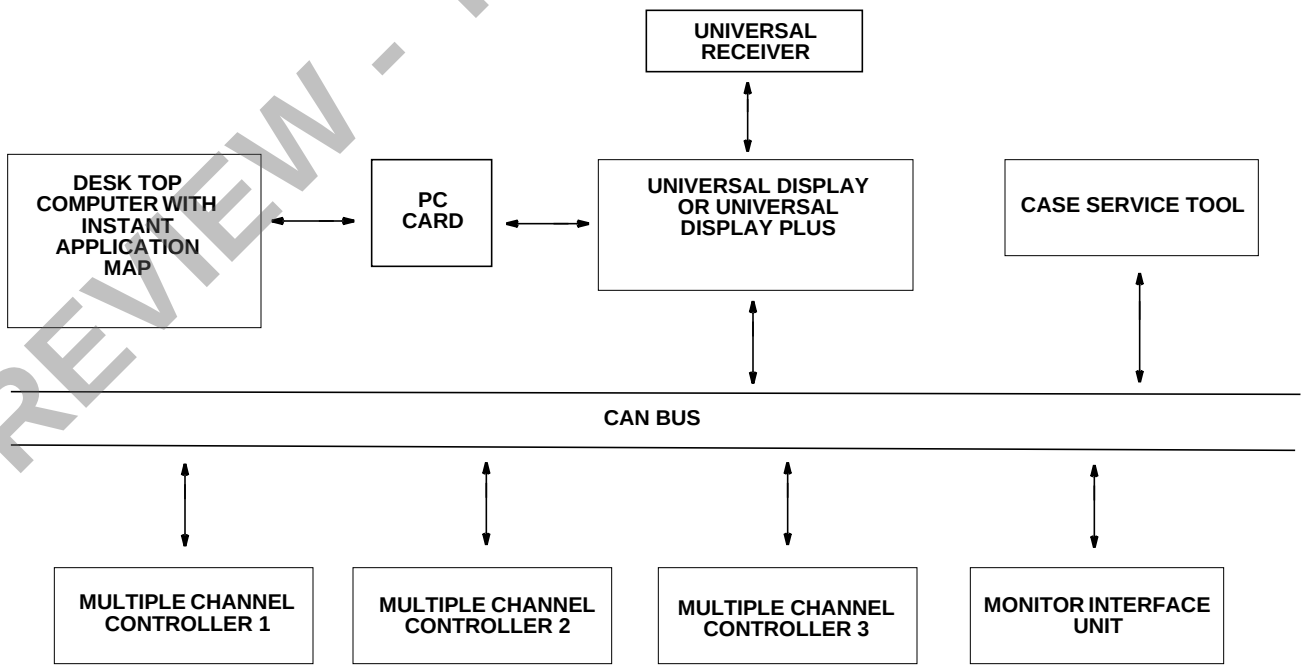
Active Terminator

Universal Display (Display Plus)

The Universal Display in the tractor cab is the operator control interface. In other words the operator inputs the value desired for the seeding/planting requirements. The Universal Display then transmits that data to the Monitor Interface Unit (MIU) through the Controller Area Network (CAN). This data becomes the standard for the operation to which the rest of the system adjusts to, regardless of how fast or slow the equipment is operated. For example: Seeding rate per acre, tool depth, chemical application rate per acre, etc...

The Universal Display also displays the state of the current process the equipment is in. Bar graphs display the rate of seeding, chemical, fertilizer etc... applied in the individual seeding segments. The actual bin level, based on a 4 level bin switch system in each bin, can be displayed in bar graph form.

System Layout



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FUSE BOX CHART

FUSE BOX LOCATION	SIZE (AMPS)	AFS PLANTER FUNCTION
FUSE - 1	15	WING FOLD SOLENOID SLAVE RETURN RELAY SLAVE RETURN SOLENOIDS
FUSE - 2	20	WHEEL TUCK RELAY WHEEL TUCK SOLENOIDS RAISE LIMIT RELAY RAISE LIMIT SOLENOIDS
FUSE - 3	20	MARKER ISOLATION RELAY MARKER ISOLATION SOLENOIDS INNER LEFT HAND MARKER SOLENOID OUTER LEFT HAND MARKER SOLENOID INNER RIGHT HAND MARKER SOLENOID OUTER RIGHT HAND MARKER SOLENOID
FUSE - 4	20	LEFT HAND ENHANCED LIGHT RIGHT HAND ENHANCED LIGHT
FUSE - 5	20	RIGHT HAND MULTI CHANNEL CONTROLLER HB+ RIGHT HAND MULTI CHANNEL CONTROLLER LOAD CLAMP
FUSE - 6	20	LEFT HAND MULTI CHANNEL CONTROLLER HB+ LEFT HAND MULTI CHANNEL CONTROLLER LOAD CLAMP
FUSE - 7	5	GROUND SPEED SENSOR IMPLEMENT STATUS SENSOR
FUSE - 8	15	LEFT HAND MULTI CHANNEL CONTROLLER LB+ LEFT HAND BIN LEVEL GATEWAY
FUSE - 9	15	MONITOR INTERFACE UNIT LB+
FUSE - 10	15	RIGHT HAND MULTI CHANNEL CONTROLLER LB+ RIGHT HAND BIN LEVEL GATEWAY
FUSE - 11	15	CENTER MULTI CHANNEL CONTROLLER LB+ HITCH LB+ CALIBRATE SWITCH CENTER BIN LEVEL GATEWAY
FUSE - 12	25	CENTER MULTI CHANNEL CONTROLLER HB+ CENTER MULTI CHANNEL CONTROLLER LOAD CLAMP HITCH HB+
FUSE - 13	25	MONITOR INTERFACE UNIT HB+ MONITOR INTERFACE UNIT LOAD CLAMP

NOTE: Case Corporation reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.

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Section

4000

AFS ELECTRICAL SYSTEM ALL MODELS

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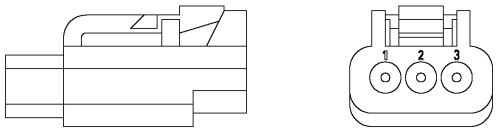
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CONNECTOR NO. 187, 188 and 189

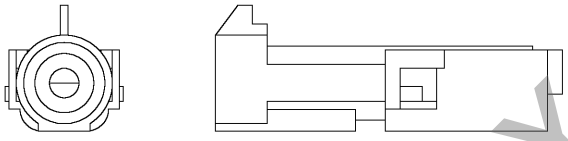


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PIN #	CAVITY	CIRCUIT REF
1	1	LB+
2	2	SIGNAL
3	3	LGND

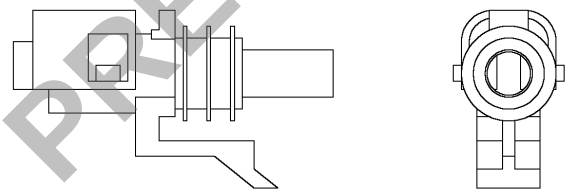
CONNECTOR NO. 190



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PIN #	CAVITY	CIRCUIT REF
1	1	BIN LEVEL 1

CONNECTOR NO. 191

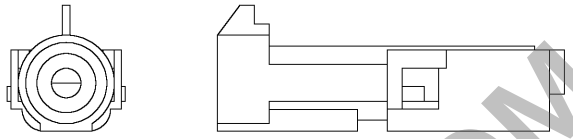


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RI99C046

PIN #	CAVITY	CIRCUIT REF
1	1	AIR PRESSURE SENSOR GROUND

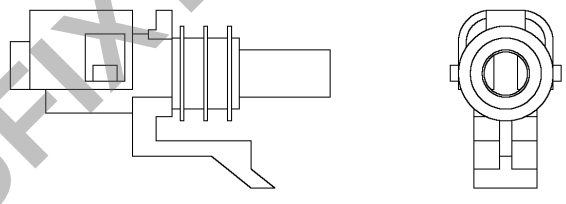
CONNECTOR NO. 192



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PIN #	CAVITY	CIRCUIT REF
1	1	BIN LEVEL 2

CONNECTOR NO. 193

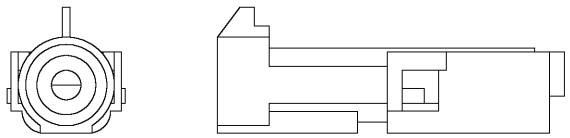


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RI99C046

PIN #	CAVITY	CIRCUIT REF
1	1	BIN LEVEL 1 SENSOR B+

CONNECTOR NO. 194



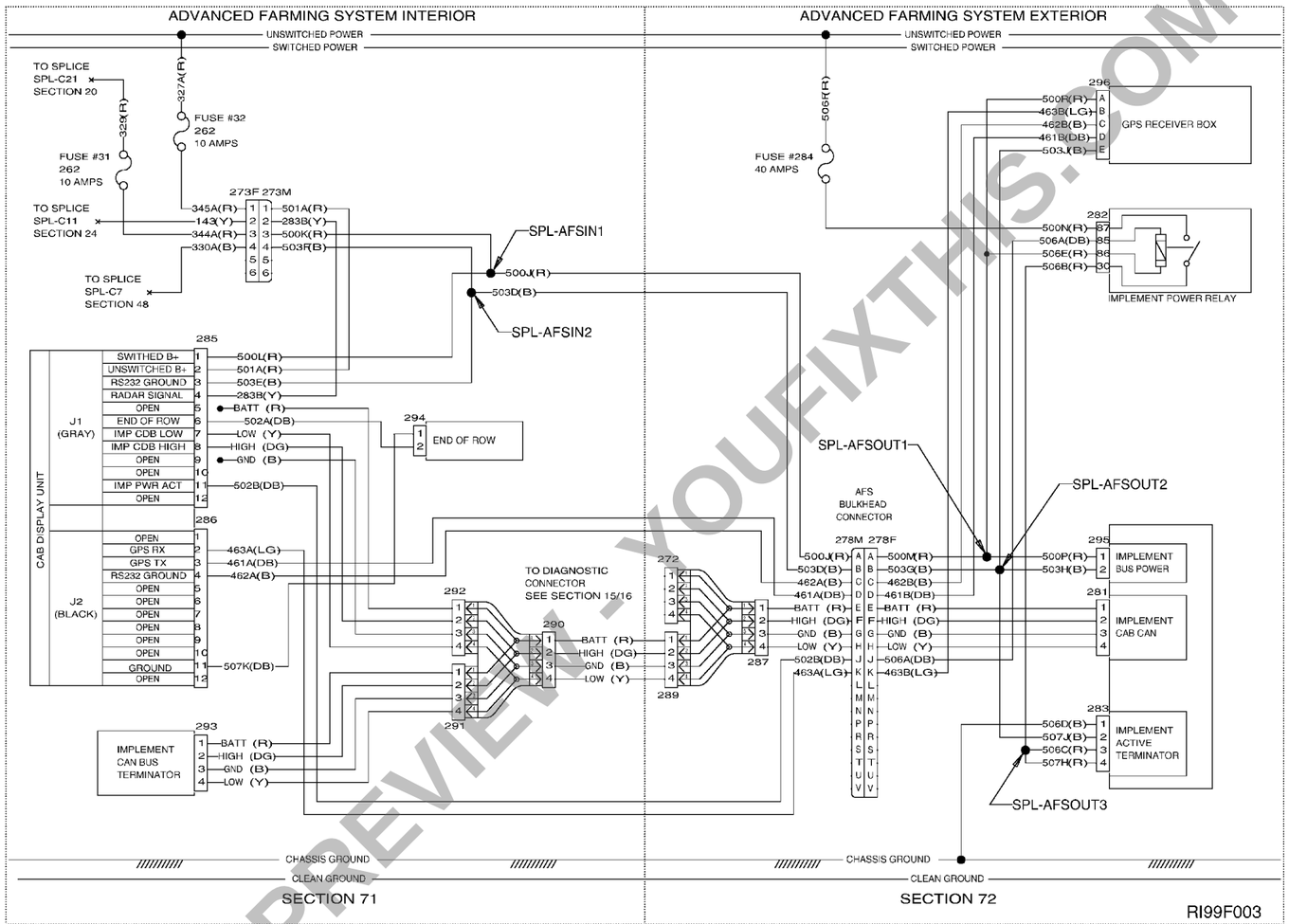
245481C1

PIN #	CAVITY	CIRCUIT REF
1	1	BIN LEVEL 1

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MX SERIES MAGNUM TRACTORS (NAO)
MX180, MX200, MX220, MX240 AND MX270
TRACTOR HARNESS SCHEMATIC



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STEP 4 Check implement status switch operation.

Lower implement
Turn power off.
Remove the implement status switch plug.
Check for closed circuit between pins A and B of the implement status switch.

- NOT OK - The switch is not in the closed position when the lowered position. Replace switch.
- OK - Go to Step 5.

STEP 5 Check implement status signal wire for open circuit.

Lower implement
Turn power off.
Remove the implement status switch plug.
Remove MIU J4.
Check for open circuit between pin A of the implement status switch plug and pin 7 of MIU J4.
Check other side.

- NOT OK - Open circuit detected. Find and repair or replace the signal wire.
- OK - Go to Step 6.

STEP 6 Check Low current Battery for open circuit.

Lower implement
Turn power on.
Remove the implement status switch plug.
Check for approximately 12.8 volts between pin B of the implement status switch plug and implement chassis.
Check other side.

- NOT OK - Open circuit detected. Find and repair or replace the Low current Battery wire.
- OK - Return to service if no intermittent problems were found.

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Fault Code MIU 6033

Service Tool Description:

MIU Discrete Driver instance 3 load is open circuit.

Meaning:

The MIU fault logic has detected the Raise limit relay has an open circuit.

Possible Failure Modes:

1. Loose connector or bent pin.
2. Raise limit relay failed open.
3. Fuse 2 (20 amp) blown
4. Broken wire in electrical circuit.
5. Failed MIU controller

Background:

The MIU measures the current draw at MIU pin J2-2. If the current draw is out of the expected limits, a fault code will be recorded. If the problem is temperature sensitive the solenoid coil may be starting to fail. The MIU will not accept commands when the fault code is active.

-- If the error is active all commanded loads would be disabled. The Universal Display will alert the operator of a Fault Code by setting a Frame and lighting system error.

Solenoid coil information:

Approximately 75 ohms at 20 C (77F)

Wiring Information:

NOTE: *Always inspect the connector ends for damaged, bent or dislocated pins when troubleshooting.*

Raise limit relay plug circuit:
Pin 86 ↔ Fuse 2 (20 amp) ↔ MIU Interlock Relay switched High Current Battery.
Pin 85 ↔ MIU pin J2-2.

NOTE: *The symbol ↔ represents the term "connected to".*

Corrective Action:

STEP 1 Find out if the fault code is still active.

Clear all fault codes from the MIU.
Cycle system power.

- NOT OK - Universal display alarms of frame and lighting error and fault code MIU 6033 is recorded. Go to step 2.
- NOT OK - Unit was put back in service and fault code MIU 6033 is recorded again. Perform step 4, 5, and 6 checking for intermittent connections.
- OK - fault code is not recorded again, there may be loose or damaged pin in one of the connections. Perform Steps 4, 5, and 6.

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STEP 2 Check Fuse 3 (20 amp).

Turn system power off.
Check fuse 3 in implement fuse box either visually or by testing for open circuit.

- NOT OK - Go to step 3.
- OK -Go to step 4.

STEP 3 Check for short to ground.

Turn system power off.
Check short between implement chassis and the fuse holder.

- NOT OK - Find and repair short in harness. Replace Fuse 3 (20 amp). Return unit to service.
- OK -Replace Fuse 3 (20 amp). Return unit to service.

STEP 4 Clean and inspect Right-hand outer marker (ROM) Solenoid pins.

Turn system power off.
Disconnect the Right-hand outer marker (ROM) Solenoid from the harness.
Inspect pins A and B. Clean the connections.
Clean the female pins by installing and removing.
Clear all fault codes from the MIU.
Turn system power on.

- NOT OK - Display alarms of frame and lighting error and fault code MIU 6103 is recorded. Go to step 5.
- OK - fault code is not recorded again, there may be loose or damaged pin in one of the connections. Perform Step 5.

STEP 5 Clean and inspect MIU pins.

Turn system power off.
Remove the J2 MIU connector from the MIU.
Inspect pins 7. Clean the connections.
Clean the female pins by installing and removing.
Clear all fault codes from the MIU.
Turn system power on.

- NOT OK - Display alarms of frame and lighting error and fault code MIU 6103 is recorded. Go to step 6.
- OK - fault code is not recorded again.

STEP 6 Clean and inspect Fuse Box pins.

Turn power off.
Remove connector 4 from the fuse box.
Inspect pins A, F, and H. Clean the connections.
Clean the female pins by installing and removing.
Clear all fault codes from the MIU.
Cycle system power.

- NOT OK - Display alarms of frame and lighting error and fault code MIU 6103 is recorded. Go to step 7.
- OK - fault code is not recorded again.

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STEP 6 Check for CAN bus and active terminator function on the implement harness.

Turn system power on.
Disconnect the active terminator on the tractor.
From the implement active terminator plug measure voltage across the following pins:
Between pins 1 and 3, approximately 12.8 volts.
Between pins 2 and 3, approximately 2.5 to 4 volts (2.5 nominal)
Between pins 4 and 3, approximately 1 to 2.5 volts (2.5 nominal)

- NOT OK - Loose or corroded connections in CAN wire, go to Step 4.
- NOT OK - Replace active terminator.
- OK - Go to Step 10.

STEP 7 Check for CAN bus power and ground at 9-pin implement connector.

Turn system power on.
Disconnect the CAN power connector from the 9-pin implement connector on the tractor.
Measure the voltage between pins 6 and 7, it should be approximately 12.8 volts.

- NOT OK - Go to Step 8.
- OK - Go to Step 6.

STEP 8 Check for power and ground at CAN power plug.

Turn system power on.
Disconnect the CAN power plug from the 9-pin implement connector on the tractor.
Measure the voltage between pins 1 and 2, it should be approximately 12.8 volts.

- NOT OK - Go to step 9.
- OK - Repair or replace the 9-pin implement connector, go to Step 7.

STEP 9 Check for open circuit between CAN power plug and 9-pin implement connector.

Turn system power on.
Measure the voltage between 9-pin implement connector pins 2 (ground) and 4 (power), it should be approximately 12.8 volts.

- NOT OK - Go to step 9.
- OK - Find and repair open circuit between CAN power plug and LB+ and LGND or replace tractor harness.

STEP 10 Check for CAN at MIU plug.

Turn system power off.
Remove the MIU J3 connector from the MIU.
Remove the MIU J1 connector from the MIU.
From MIU J3 plug measure voltage across the following pins:
Between pins MIU J1-8 and J3-1, approximately 2.5 to 4 volts (2.5 nominal)
Between pins MIU J1-8 and J3-12, approximately 1 to 2.5 volts (2.5 nominal)

- NOT OK - CAN harness problem between MIU J3 and CAN Splice.
- OK - Go to Step 11

STEP 11 Replace MIU controller.

Replace MIU.
Write fault code on failed MIU controller.
Install, program, set implement identification and recalibrate system.

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STEP 3 Check Bin Level Gateway for incorrect connections.

Turn system power off.
Disconnect Bin Level Sensor.
Power system.
Check for fault codes.

- NOT OK - Go to step 4
- OK - Check for incorrect pin out defective sensors or warn harnesses.

STEP 4 Replace Bin Level Gateway.

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Fault Code MCC 6068

Service Tool Description:

MCC Discrete Driver instance 6 is stuck ON or OFF.

Meaning:

The MCC fault logic has detected the Liquid fertilizer section 3 valve driver is stuck on or off.

Possible Failure Modes:

1. The MCC Liquid fertilizer section 3 valve driver is stuck on or off.
2. Control wire is shorted to power during run time.

Background:

The MCC measures the current draw at MCC pin J2-12. If the current draw is above the limit after command off or below the limit after commanded on, a fault code will be recorded. If the problem is temperature sensitive the solenoid coil may be starting to fail. The MCC will not accept commands when the fault code is active.

-- If the error is active all commanded loads would be disabled. The Universal Display will alert the operator of a Fault.

Solenoid coil information:

Approximately 75 ohms at 20 C (77F)

Wiring Information:

NOTE: *Always inspect the connector ends for damaged, bent or dislocated pins when troubleshooting.*

Liquid fertilizer section 3 valve plug circuit:
Pin 3 ↔ Liquid fertilizer connector pin 1 ↔ MCC Interlock Relay switched High Current Battery pin 30.
Pin 4 ↔ Liquid fertilizer connector pin 9 ↔ MCC pin J2-12.

NOTE: *The symbol ↔ represents the term "connected to".*

Corrective Action:

STEP 1 Find out if the fault code is still active.

Clear all fault codes from the MCC.
Cycle system power.

- NOT OK - Universal display alarms of fault and fault code MCC 6064 is recorded. Go to Fault Code MCC 6064.
- NOT OK - Unit was put back in service and fault code MCC 6068 is recorded again. Go to Step 5 and check for intermittent short to ground or short to power.
- NOT OK - Fault code MCC 6068 recorded again. Go to Step 5
- OK - fault code is not recorded again. Go to Step 2.

STEP 2 Check the enabling of the Liquid fertilizer section 3 valve circuit.

Enable Liquid fertilizer section 3 valve circuit.

- NOT OK - Universal display alarms of fault and fault code MCC 6068 is recorded. Go to Step 6.
- OK - Go to Step 3

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STEP 8 Clean and inspect 9-pin Implement Connector pins.

Turn power off.
Disconnect the 9-pin implement connector from the tractor.
Inspect pin 3 of the 9-pin implement connector. Clean the connections.
Clean the female pins by installing and removing.
Clear all fault codes from the MCC.
Cycle system power.

- NOT OK - Display alarms of MCC fault and fault 8002 is recorded. Go to step 6.
- OK - problem was corrected.

STEP 9 Check for open circuit in implement harness.

Turn power off.
Remove 9-pin tractor connector.
Remove MCC J1 plug.
Check for open circuit between MCC J1-10 and 9-pin implement connector pin 3.

- NOT OK - Find and repair implement harness between MCC J1-10 and pin 3 of the 9-pin Implement Plug.
- OK - go to Step 7.

STEP 10 Check Tractor Harness for power.

Turn system power on.
Check for power between pins 1 and 3 of 9-pin implement connector.

- NOT OK - See Universal Display section for trouble shooting of the tractor harness.
- OK - Go to Step 8.

STEP 11 Replace the MCC.

Write fault code on failed MCC controller.
Install, program, set implement identification and recalibrate system.

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Right-Hand Warning Does Not Function.

Meaning:

When the tractor has its warning lights on, the implement warning lights do not function.

Possible Failure Modes:

1. Loose connections.
2. Blown light bulb
3. The 7-pin trailer connector is not connected properly.

Background:

The taillights are connected directly to the tractor electrical system though the 7-pin trailer connector.

Wiring Information:

At warning light plug
Pin 1 --> Ground (also internally connected to the chassis)
Pin 4 --> Warning light signal

At 7-pin Trailer Connector
Pin 1 --> Ground
Pin 5 --> Right-hand warning signal

NOTE: *Always inspect the connector ends for damaged, bent or dislocated pins when troubleshooting.*

Corrective Action:

STEP 1 Clean and inspect 7-pin Trailer Connector.

Turn power off.
Remove the 7-pin Trailer Connector plug.
Inspect the pins 1 and 5.
Clean the connections.
Clean the female pins by installing and removing.
Turn power on.
Activate the warning lights.

- NOT OK - The warning light does not operate. Go to step 2.
- OK - Return unit to service.

STEP 2 Clean and inspect warning light plug pins.

Turn power off.
Disconnect warning light plug.
Inspect pins 1 and 2.
Clean the connections.
Clean the female pins by installing and removing.
Turn power on.
Activate the warning lights.

- NOT OK - The warning light does not operate. Go to step 3.
- OK - Return unit to service.

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STEP 2 Cleaning and inspecting Right-hand Enhanced Light pins.

Turn system power off.
Disconnect the Right-hand Enhanced Light from the harness.
Inspect pins A and B. Clean the connections.
Clean the female pins by installing and removing.
Clear all fault codes from the MIU.
Turn system power on.

- NOT OK - Display alarms of lighting error and fault code MIU 7043 is recorded. Go to step 3.
- OK - fault code is not recorded again, there may be a loose or damaged pin in one of the connections. Perform Step 3.

STEP 3 Cleaning and inspecting MIU pins.

Turn system power off.
Remove the J1 MIU connector from the MIU.
Inspect pin 12. Clean the connections.
Clean the female pins by installing and removing.
Clear all fault codes from the MIU.
Turn system power on.

- NOT OK - Display alarms of frame and lighting error and fault code MIU 7043 is recorded. Go to step 4.
- OK - fault code is not recorded again.

STEP 4 Right-hand Enhanced Light resistance check.

Turn power off.
Disconnect Right-hand Enhanced Light.
Measure the resistance between pins A and B of the Light bulb.

- NOT OK - Go to Step 5.
- NOT OK - Bulb checks out OK, but the assembly does not, then the socket needs to be repaired.
- OK - Resistance measured was to specification based upon the bulb information, go to Step 6.

STEP 5 Bulb check.

Turn power off.
Remove bulb.
Measure the resistance between side and the bottom of the bulb to determine if the bulb is blown.

- NOT OK - Replace bulb, Go to Step 4.
- OK - Bulb is not blown, go to Step 6.

STEP 6 Check for blown fuse 3 (20 amp).

Remove and visually inspect or check for open across the top.

- NOT OK - Check for short circuit to frame. Replace fuse.
- OK - Go to Step 7.

STEP 7 Check open circuits in Right-hand Enhanced Light control wire.

Turn power off.
Disconnect the Right-hand Enhanced Light.
Disconnect MIU J1 Connector from MIU.
Check for open circuit between pins B on Right-hand Enhanced Light plug and the MIU J1 plug pin 12.

- NOT OK - Find and repair or replace the wire between the MIU pin J1-12 and pin B of the Right-hand Enhanced Light plug.
- OK - Completed circuit, go to Step 8.

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10002-120

At Sensor Bus connection at tank
PIN 1 --> Sensor Bus A (left-hand)
PIN 2 --> Sensor Bus B (left-hand)
PIN 4 --> Sensor Bus A (right-hand)
PIN 5 --> Sensor Bus B (right-hand)

Corrective Action:

STEP 1 Clean and inspect seed sensor connections.

Turn system power off.
Identify the sensor which generated the error (use the address number).
Disconnect the next further out sensor from the sensor that generated the error.
Inspect connections.
Clean the connections.
Clean the female pins by installing and removing.
Check sensor harness for wear on both sensors.
Turn system power on.
Clear MIU fault codes.
Cycle system power.
Check fault codes.

- NOT OK - Same fault code generated. Go to step 2.
- NOT OK - When next sensor address is connected the fault reoccurs. Fault is in either address bb or address bb+1.
- OK - No fault recorded. Connect only address bb+1 to the daisy chain and repeat step 1 using bb+1 instead of bb. Repeat process by connecting one sensor at a time until fault is regenerated.

STEP 2 Retry with different sensor.

Using a known good sensor or a sensor from a location not connected, connect sensor and recheck for sensor faults.

- NOT OK -- MIU recorded same sensor fault code. Go to fault code step 3.
- OK - No fault recorded. Connect only address bb+1 to the daisy chain and repeat step 1 using bb+1 instead of bb. Repeat process by connecting one sensor at a time until fault is regenerated.

STEP 3 Retry with different previous seed sensor position.

Using a known good sensor or a seed sensor from a location not connected, connect sensor in location bb-1. This sensor may have caused fault.

- NOT OK -- Repeat process until no fault are generated. Go to step 3.
- OK - Replace sensor address bb-1 and go to step 1.

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STEP 3 Clean and inspect MIU connections.

Turn system power off.
Remove MIU J4.
Inspect connection pin 23 and 24.
Clean the connections.
Clean the female pins by installing and removing.
Check sensor harness for wear.
Turn power on.

- NOT OK - Repair or replace as required.
- OK - Go to Step 4.

STEP 4 Check Sensor Bus A wire for open circuit.

Turn system power off.
Remove Bin Level Gateway plug.
Disconnect Bin Level Sensor connections.
Check for short circuit between Run Blockage Gateway pin 23 and MIU J4-1 plug.

- NOT OK - Find and repair or replace the wire between the Run Blockage Gateway and the MIU J4 plug.
- OK - Go to Step 5.

STEP 5 Check Sensor Bus B wire for an open circuit.

Turn system power off.
Remove Run Blockage Gateway plug.
Disconnect MIU J4 plug.
Check for open circuit between Run Blockage Gateway pin 24 and MIU J4-12.

- NOT OK - Find and repair or replace the wire between the Run Blockage Gateway and the MIU J4 plug.
- OK - Go to Step 6.

STEP 6 Replace Run Blockage Gateway.

- NOT OK - Go to Step 7.
- OK - Return to service.

STEP 7 Replace MIU controller.

Write fault code on failed MIU controller.

- Install, program, set implement identification and recalibrate system.

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STEP 3 Check the disabling of the Bin 2 circuit.

Disable the Bin 2 circuit.

- NOT OK - Universal display alarms of fault and fault code MCC 7038 is recorded. Find and repair or replace the wire between the MCC pin J1-2 and pin 1 Bin 3of the Bin 2 plug.
- OK - Go to Step 4.

STEP 4 Check MCC for internal short to battery.

Turn power off.
Disconnect MCC J1 connector from MCC.
Remove pin 2.
Reconnect MCC J1 connector to MCC.
Power system and check for errors.
Reinsert pin 2 into MCC J1.

- NOT OK - Fault code MCC 7034 is recorded again, go to Step 5.
- OK - Fault code MCC 7033 is recorded, go back to Step 2.

STEP 5 Replace MCC controller.

Replace MCC.
Write fault code on failed MCC controller.
Install, program, set implement identification and recalibrate system.

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STEP 3 Check for open circuit of the unswitched power wire.

Turn power off.
Disconnect the tractor power connector.
Disconnect GPS connector.
Check for open circuit between service tool connector pin A and tractor power connector switched power pin.

- NOT OK - Repair or replace tractor harness.
- OK - Go to Step 4.

STEP 4 Check for open circuit of the ground wire.

Turn power off.
Disconnect the tractor power connector.
Disconnect GPS connector.
Check for open circuit between Universal Receiver pin E and tractor power connector ground pin.

- NOT OK - Repair or replace tractor harness.
- OK - Diagnose tractor for power at tractor power connector.

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