Precision Air
2230 / 2280 / 2330 / 3380 / 3430
Air Cart

SERVICE MANUAL

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CASE IH AGRICULTURE

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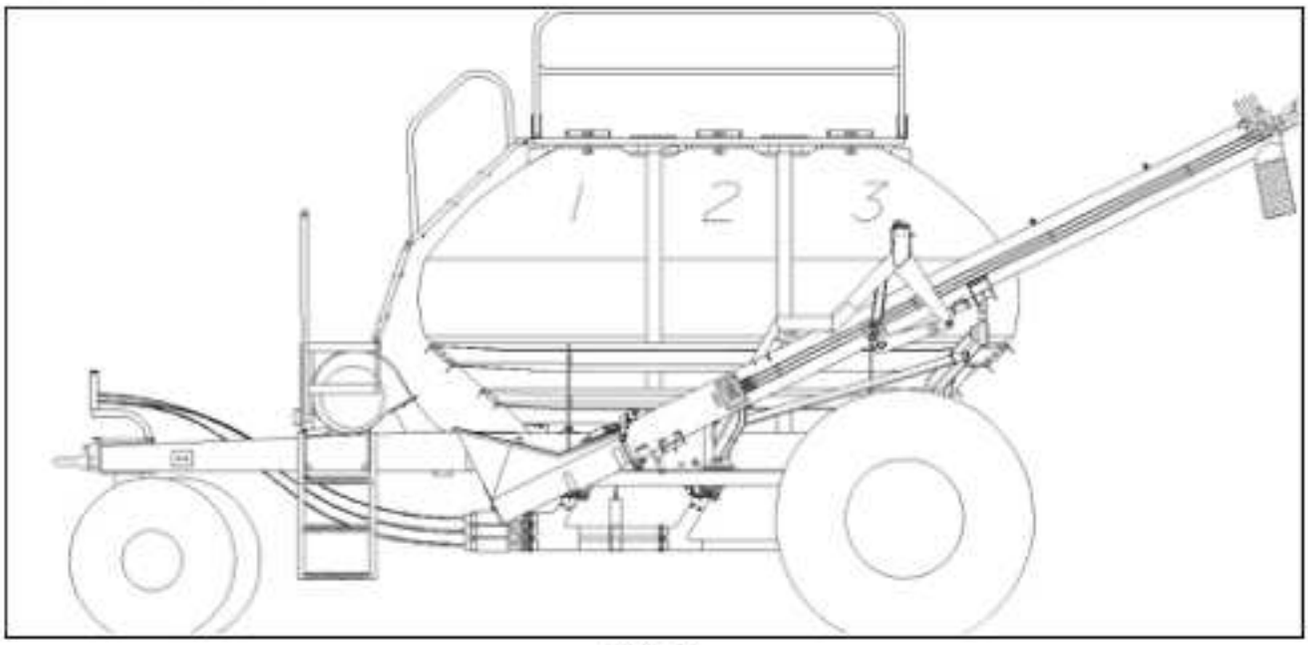
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Three Tank Models

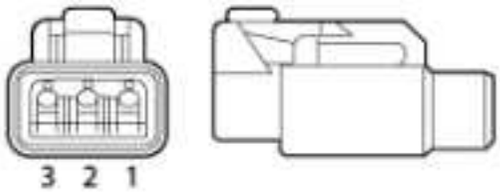


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Tow Behind Precision Air 3380 and 3430 Air Cart Dimensions

Configuration	Precision Air 3380	Precision Air 3430
Length (with auger)	8.61 m (28 ft 3 in)	8.61 m (28 ft 3 in)
Height	4.55 m (14 ft 1 in)	4.65 m (15 ft 3 in)
Volume **100 %**		
Front	4158 L (118 Bu)	5004 L (142 Bu)
Center	3277 L (93 Bu)	3594 L (102 Bu)
Rear	5955 L (169 Bu)	6554 L (186 Bu)
Weight - Empty	4940 kg (10 880 lb)	5030 kg (11 090 lb)
Weight - Loaded	15 230 kg (33 580 lb)	16 680 kg (36 780 lb)
Rear Axle - Empty	3420 kg (7540 lb)	3480 kg (7670 lb)
Rear Axle - Loaded (Estimate)	11 200 kg (26 690 lb)	12 310 kg (27 140 lb)
Front Hitch / Axle - Empty	1510 kg (3340 lb)	1550 kg (3420 lb)
Front Hitch / Axle - loaded (Estimate)	4030 kg (8885 lb)	4370 kg (9640 lb)

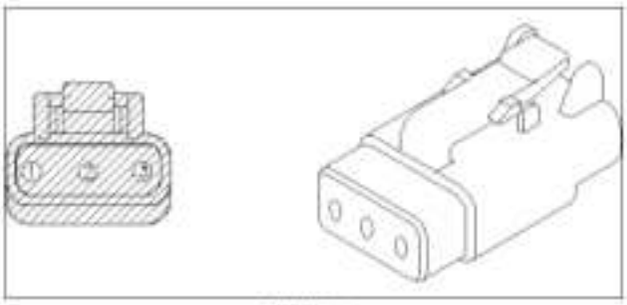
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DDU_DTM06-3S 2

CONNECTOR X-123

METER 2 AIR SPEED			
POSITION	**WIRE NUMBER**	**CIRCUIT REFERENCE**	**ELECTRICAL SCHEMATIC FRAME**
1	8N BK-0.5	ECU_GND	**Wire harnesses - Electrical schematic frame 10 Tank 2 (55.100)**
2	32A WH-0.5	METER 2 AIR VEL	**Wire harnesses - Electrical schematic frame 10 Tank 2 (55.100)**
3	18N RD-0.5	+12V_SEN	**Wire harnesses - Electrical schematic frame 10 Tank 2 (55.100)**



[illegible] 3

CONNECTOR X-124

WHEEL GROUND SPEED			
POSITION	**WIRE NUMBER**	**CIRCUIT REFERENCE**	**ELECTRICAL SCHEMATIC FRAME**
1	8F BK-0.5	ECU_GND	**Wire harnesses - Electrical schematic frame 08 Speed and fan sensors / work and cal switches (55.100)**
2	23A WH-0.5	SPEED SENS	**Wire harnesses - Electrical schematic frame 08 Speed and fan sensors / work and cal switches (55.100)**
3	18F RD-0.5	+12V_SEN	**Wire harnesses - Electrical schematic frame 08 Speed and fan sensors / work and cal switches (55.100)**

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520202-04-Implement CAN_H, Voltage below normal, or shorted to low source

Precision Air 2280	
Precision Air 2330	
Precision Air 3380	
Precision Air 3430	

Control Module : Section Control ECU

NOTE: *This fault code can be generated by any ECU. Check the display for which ECU is indicated.*
The implement is indicated by the icon next to the stop sign  *when the fault is displayed.*
Fault codes from the implement Rate ECU are explained in the implement service manual.

Context:
The Rate ECU detected an abnormally high voltage on its CAN_H signal.

Cause:
Short to low source, bad connection or open circuit, or defective component.

Possible failure modes:

1. Low short on CAN_H.
2. Low short on TBC_PWR.
3. Bad connection or open circuit on TBC_PWR.
4. Faulty device.
5. Faulty Section Control ECU hardware or software

Solution:

1. Determine if the fault code is still active:

   Cycle system power or reset the Section Control ECU.

   Select UTIL > FAULT and check both ACTIVE and INACTIVE faults. Refer to **Cab seeding controls - Check Faults (55.517)**.
   Review: Fault Count, First Time, Last Time

   Also view the CAN_H voltage as measured by the Section Control ECU.
   Select DIAGN > MONTR and choose CAN_H. Refer to **Cab seeding controls - Check Diagnostics - Monitor (55.517)**.

   A. Fault 520202-4 is active. Go to Step **2**.

   B. Fault 520202-4 is inactive. Continue operation and monitor for recurring fault.

2. Disconnect the IBBC (Implement Bus Breakaway Connector) at the rear of the tractor or seed tool if the air cart is tow behind.

Precision Air Tow Behind	**X-101**
Precision Air Tow Between	**X-101**

   Measure the following voltages on the tractor / seed tool connector:

Measure with Voltmeter		Measured Voltage	Interpretation and Action
Positive lead	**Negative lead**		
CAN_H (cavity 8)	ECU_GND (cavity 2)	**1.1 - 3.7 V**	Normal
		> 3.7 V	Should not occur. Double-check measurement, double-check fault code.

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Low Fan Speed!

This alarm informs the operator that the speed of the bulk fan is less than the operator specified threshold. Either adjust the hydraulics to speed the fan up, or adjust the Low Fan Alarm threshold lower.



SAIL13S830452AA 7

Master Clutch disabled due to hardware fault!

This alarm informs the operator that the master clutch has been disabled which disconnects the meter box assembly from the ground drive. This alarm is applicable only for mechanical carts, and indicates an excessive current fault has occurred at the master clutch. The clutch fault will need to be fixed, and power cycled to re-enable the clutch.



SAIL13S830453AA 8

Meter disabled due to hardware fault!

This alarm informs the operator that the indicated meter is no longer available for seeding. This alarm indicates an excessive current fault has occurred at the the meter motor (variable rate cart), or meter clutch (mechanical cart). The motor/clutch fault will need to be fixed, and power cycled to re-enable the motor/clutch. This alarm can occur at any meter.

NOTE: *The Meter 1 alarm is shown, but this alarm can occur for any meter.*

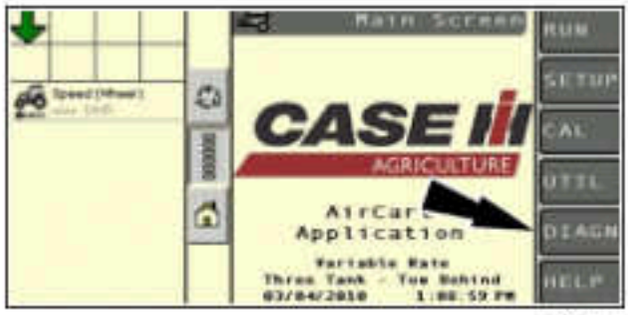


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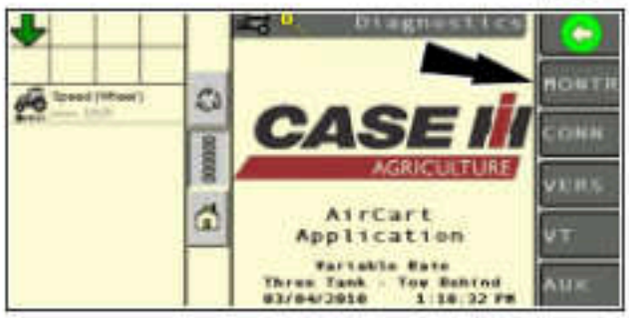
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Cab seeding controls - Check Diagnostics - Monitor

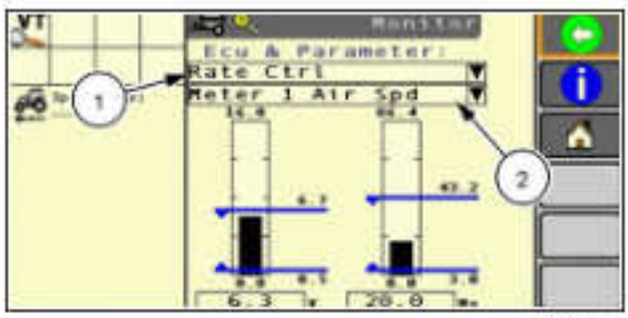
1. From the Main Screen select DIAGN for 'diagnostics'.



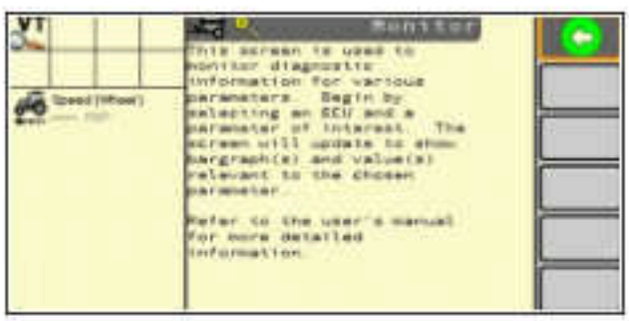
2. Select MONTR for 'monitor'.
The Monitor screen will be displayed



3. You can select the ECU. This will be Rate Controller **(1)**. Select the component you wish to view from the selection list **(2)**.



4. Choose i for extra information on the current screen at any time.

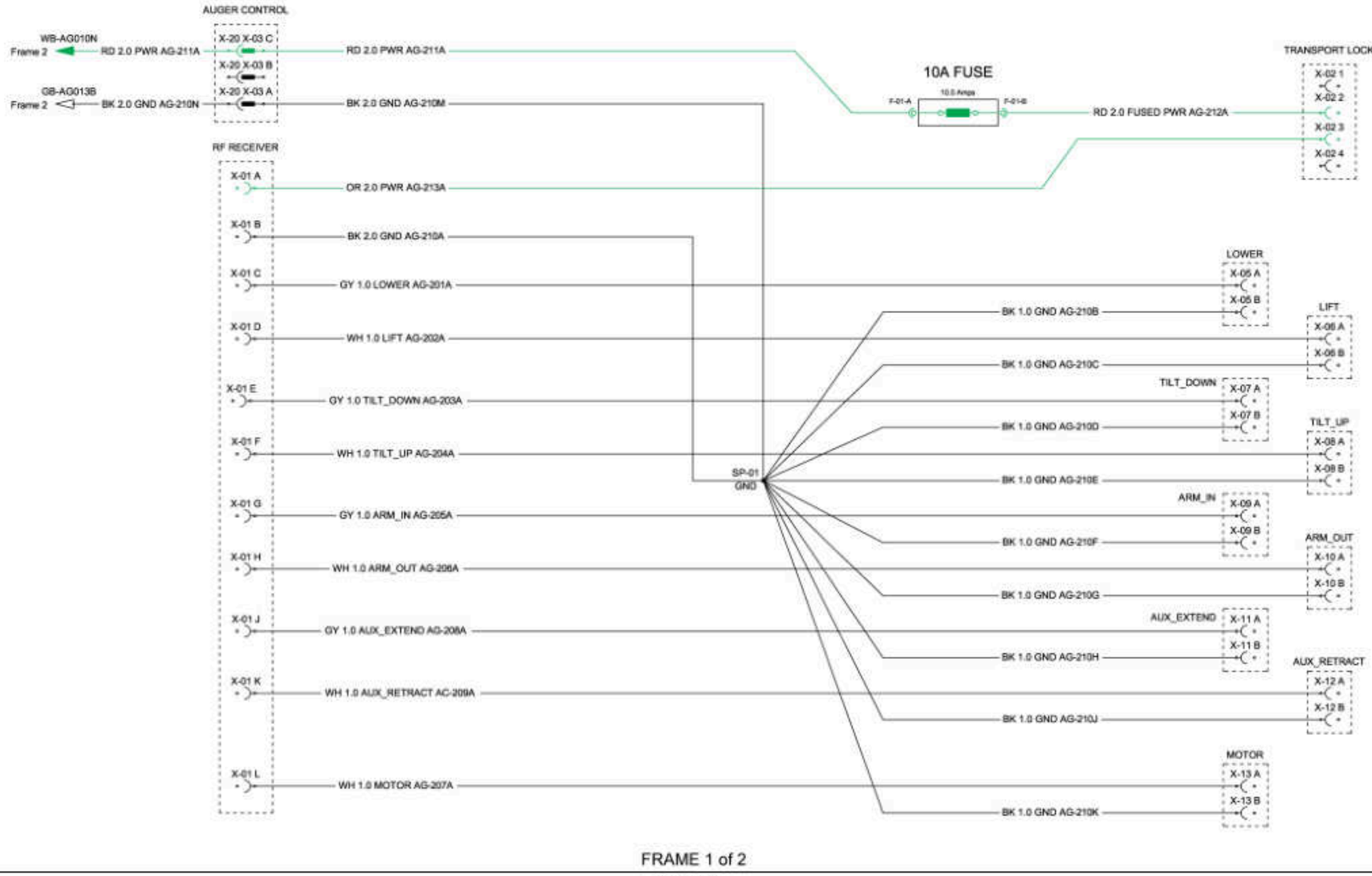


5. Pick the desired item from the scroll list.



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AUGER CONTROL



FRAME 1 of 2

SAvE13TIL030UA 1

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