Precision Disk™ 500DS
Precision Disk™ 500T
Precision Disk™ 500

Disk Drill

PIN YCS032001 and after

SERVICE MANUAL

Part number 90350607

English

July 2021

Replaces part number 47648331

CASE IH AGRICULTURE

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CONNECTOR X-311 - ROW_C6			
PIN NUMBER	WIRE NUMBER	CIRCUIT REFERENCE	ELECTRICAL SCHEMATIC FRAME
A	47 (YE)	ROW_C6	Wiring harnesses - Electrical schematic sheet 04 (55.100)
B	40F (BL)	SENSOR_GND	Wiring harnesses - Electrical schematic sheet 04 (55.100)
C	41F (PK)	SENSOR_PWR	Wiring harnesses - Electrical schematic sheet 04 (55.100)

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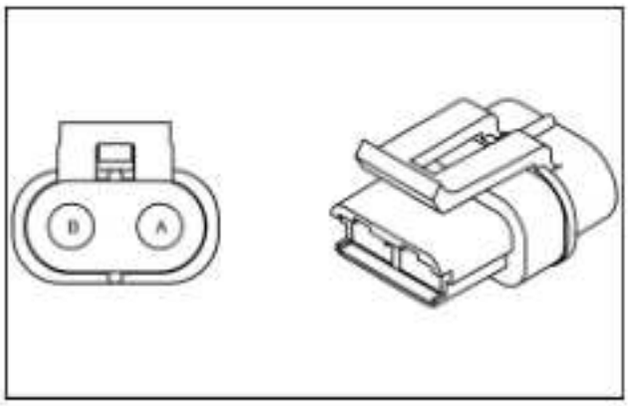
CONNECTOR X-311 - ROW_C6			
PIN NUMBER	WIRE NUMBER	CIRCUIT REFERENCE	ELECTRICAL SCHEMATIC FRAME
A	47(YE)	ROW_C6	Wiring harnesses - Electrical schematic sheet 08 (55.100)
B	88D (BL)	SENSOR_GND	Wiring harnesses - Electrical schematic sheet 08 (55.100)
C	89D (PK)	SENSOR_PWR	Wiring harnesses - Electrical schematic sheet 08 (55.100)

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Wire connectors - Component diagram 45 Connector X-450 to X-459 - (PIN YMS096001 and after)

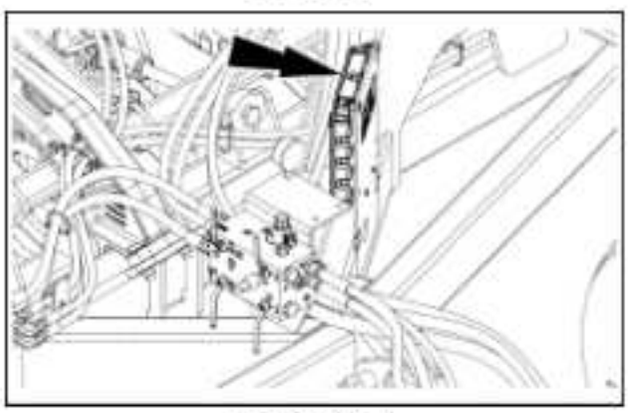
Precision Disk™ 500 50 ft (15.2 m) wide, single-shoot disk drill with 10 in (254 mm) spacing	— — — —
Precision Disk™ 500 50 ft (15.2 m) wide, single-shoot disk drill with 7.5 in (190.5 mm) spacing	— — — —
Precision Disk™ 500 60 ft (18.3 m) wide, single-shoot disk drill with 10 in (254 mm) spacing	— — — —
Precision Disk™ 500 60 ft (18.3 m) wide, single-shoot disk drill with 7.5 in (190.5 mm) spacing	— — — —
Precision Disk™ 500DS 50 ft (15.2 m) wide, double-shoot disk drill with 10 in (254 mm) spacing	
Precision Disk™ 500DS 60 ft (18.3 m) wide, double-shoot disk drill with 10 in (254 mm) spacing	

X-451 - FUSE F-002 (UCM HSD POWER) [F-002] (87688712) (Receptacle)

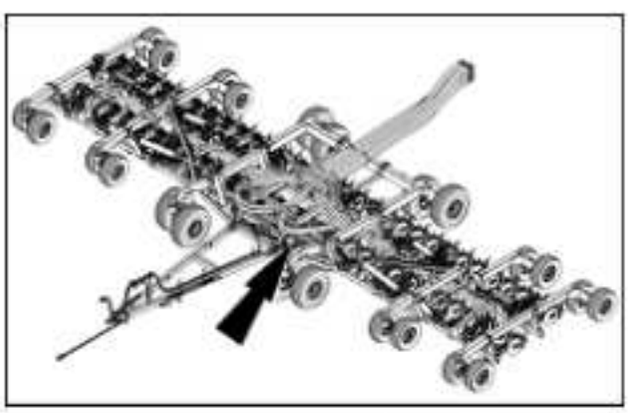


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SAIL205E001124A 3

Disk Drill

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520218-00 - Tank 1 Low, Data valid but above normal operation range - most severe level

Precision Disk™ 500T

Control Module: Disk Drill Rate ECU

Fault Description:
The Rate ECU detected an abnormally high voltage on its low tank 1 sensor signal input.

Cause:
Short to high source, or defective component.

Possible failure modes:

1. High short on signal wiring between device and Rate ECU.
2. Faulty Rate ECU hardware or software.

Solution:

1. Determine if the fault code is still active:

   Cycle system power or reset the Rate ECU.

   Select UTIL > FAULT and check both ACTIVE and INACTIVE faults. Refer to **Electronic control - Check faults (55.516)**.
   Review: Fault Count, First Time, Latest Time

   Also view the voltage/current/frequency bar graphs for the faulted signal as measured by the Rate ECU.
   Select DIAGN > MONTR and choose Tank 1 Low. Refer to **Electronic control - Check monitor - (Up to PIN YHS068000) (55.516)**.

   A. Fault 520218–00 is active. Go to Step **2**.

   B. Fault is inactive. Continue operation and monitor for recurring fault.
2. Disconnect the connector at the tank 1 sensor connector **X-108**. Measure the following voltages on the implement harness connector.

Measure with Voltmeter		Measured Voltage	Interpretation and Action
Positive lead	**Negative lead**		
TANK1_LOW (TANK1 LOW, cavity 2)	ECU_GND (TANK1 LOW, cavity 3)	**7.1 – 8.1 V**	Normal
		< 7.1 V	Should not occur. Double-check measurement, double-check fault code.
		> 8.1 V	Look for high short on TANK1_LOW wire.
		Voltage differs from signal monitor screen?	Check the voltage between TANK1_LOW and ECU_GND at the ECU connector. If this voltage still differs from the signal monitor screen, go to Step 3. If the voltage here matches the signal monitor screen, there is a problem in the wiring harness.

   A. Measurement normal or fault 520218–00 is active after repair made. Go to Step **3**

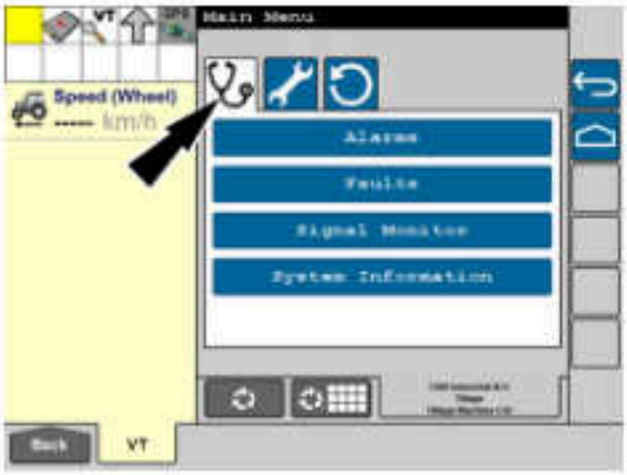
   B. Fault is inactive. Continue operation.
3. Perform the Rate ECU troubleshooting procedure described in **Electronic control - Problem solving - (Up to PIN YHS068000) (55.640)**.

   A. Fault 520218–00 is active. Reinstall original Rate ECU and contact your service organization.

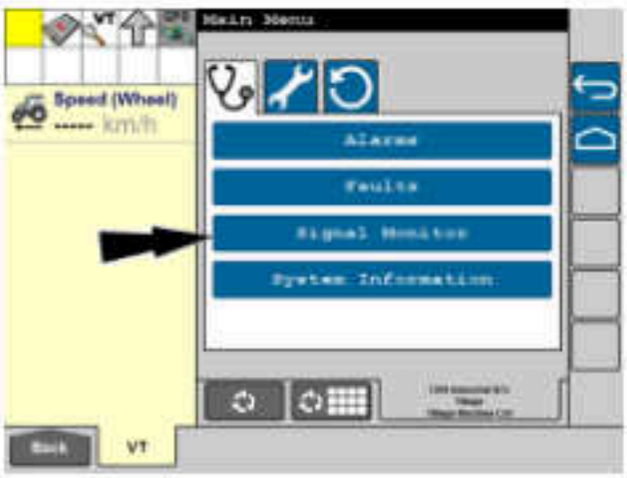
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Electronic control - Check monitor - (PIN YHS075001 and after)

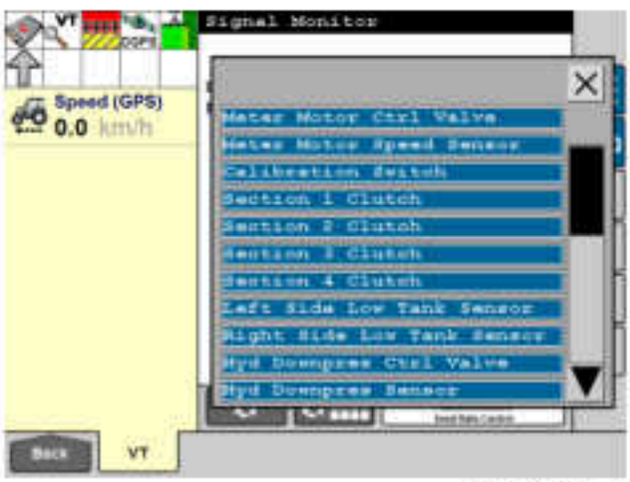
1. Select the diagnostic tab.



2. Select 'Signal Monitor'

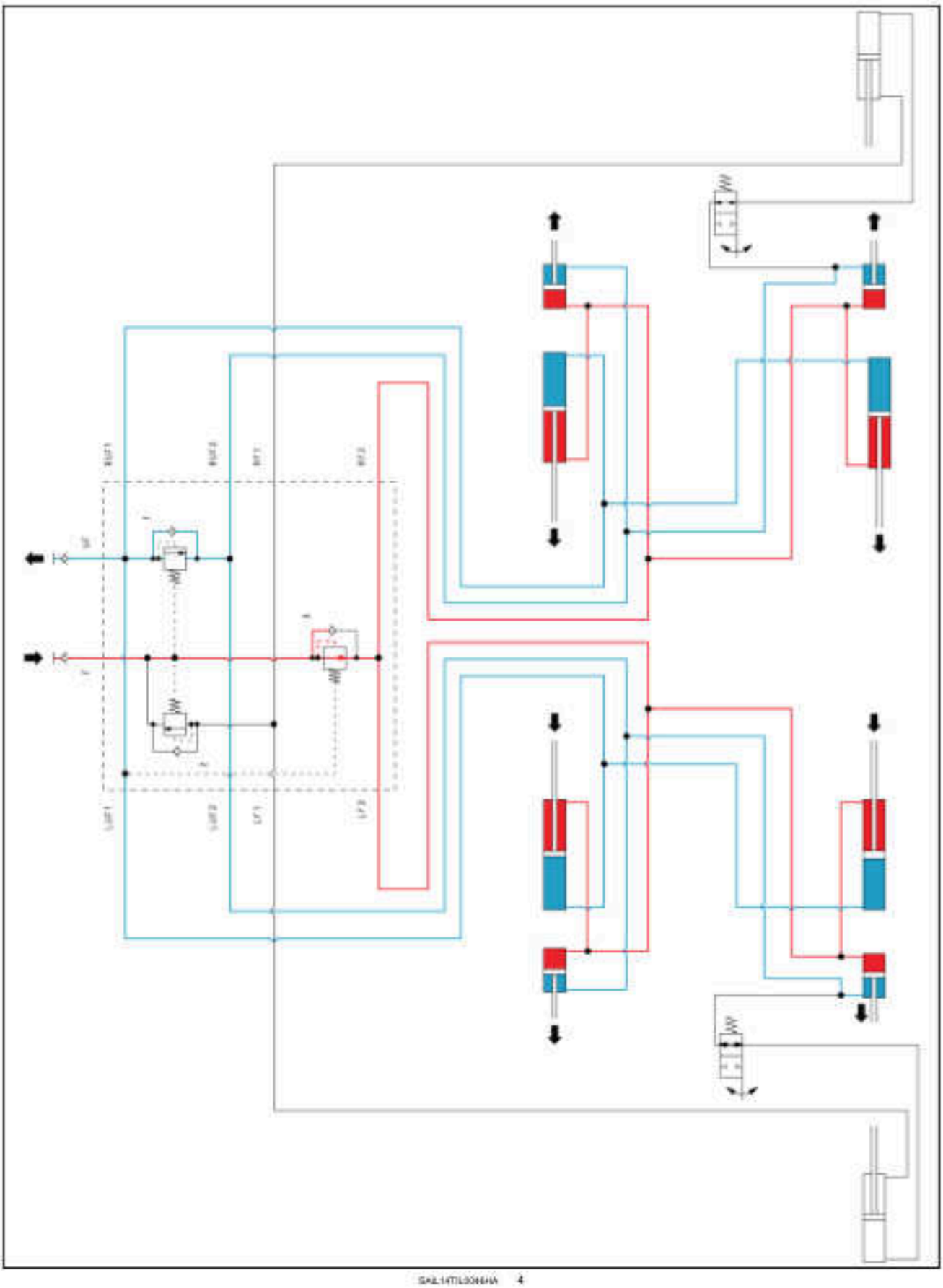


3. Select the parameter you wish to view.



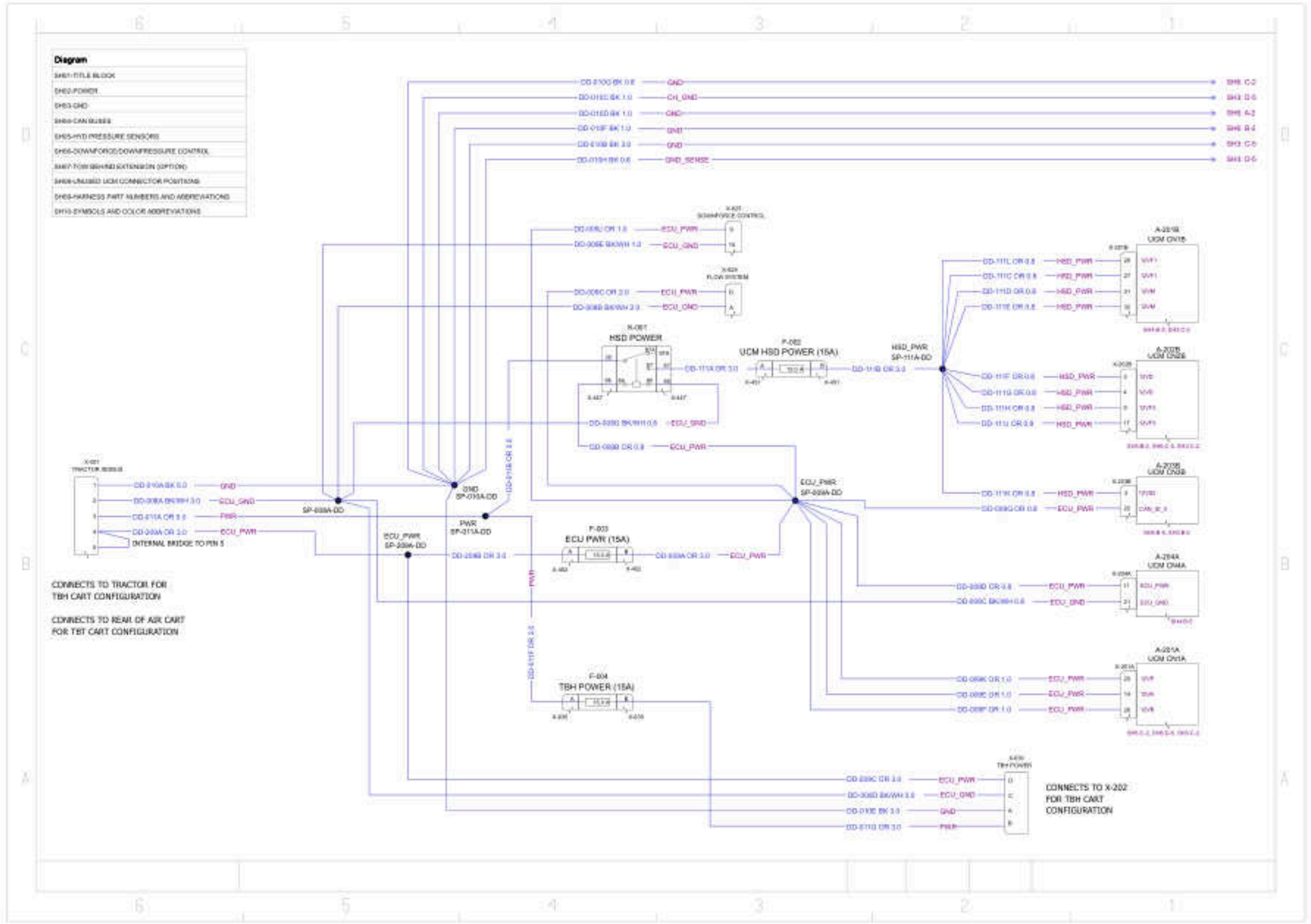
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Fold stage 2



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