SERVICE MANUAL

Speedrower® 160
Tier 4B (final)
Self-Propelled Windrower

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NEW HOLLAND AGRICULTURE

MidWestTech | New Holland Speedrower 160 Tier 4B Self Propelled Windrower Service Manual | Publication 47824873

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Wiring harnesses - Electrical schematic sheet 32 – Turn indicator, horn and hazard light switch

Speedrower® 160 | Non draper ready - Not fitted for draper header

Type	Component	Connector / Link	Description
ECU	A-001	**X-005 X-007 X-006 X-004 X-003 X-002 X-001 X-008**	A-001
Speaker	H-002	**X-144 X-145**	H-002
Switch	S-018	**X-234**	Switch
Switch	S-020	**X-234**	Switch
Switch	S-021	**X-234**	Switch
Switch	S-023	**X-234**	Switch
Switch	S-024	**X-234**	S-024
Switch	S-025	**X-234**	Switch
Switch	S-042	**X-259**	S-042
Connector	X-044	**X-044**	X-044
Connector	X-279	**X-279**	X-279

Wire Break

Component	Connector / Link	Description
FB-054	**Wiring harnesses - Electrical schematic sheet 05 – Power distribution (55.100)**	
FB-572	**Wiring harnesses - Electrical schematic sheet 05 – Power distribution (55.100)**	
GB-040D	**Wiring harnesses - Electrical schematic sheet 10 – Grounds (55.100)**	GB-040D
GB-220	**Wiring harnesses - Electrical schematic sheet 13 – Grounds (55.100)**	GB-220
WB-054D	**Wiring harnesses - Electrical schematic sheet 33 – Flashing lights (55.100)**	WB-054D
WB-054E	**Wiring harnesses - Electrical schematic sheet 33 – Flashing lights (55.100)**	WB-054E
WB-054F	**Wiring harnesses - Electrical schematic sheet 33 – Flashing lights (55.100)**	WB-054F
WB-054G	**Wiring harnesses - Electrical schematic sheet 33 – Flashing lights (55.100)**	WB-054G
WB-1209B	**Wiring harnesses - Electrical schematic sheet 24 – Boot-up (55.100)**	WB-1209B

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DTC 251A-Downstream SCR catalyst temperature is too low

Control Module : ECU

Context:
For information regarding the functional operation of the Selective Catalytic Reduction (SCR) system see **Selective Catalytic Reduction (SCR) exhaust treatment - Dynamic description (10.500)**. The Engine Control Unit (ECU) **A-9000** monitors the SCR downstream exhaust gas temperature sensor **B-9104**. If the temperature downstream of he SCR catalyst is below **-40.04 °C** (**-40.07 °F**), this fault will occur.

Cause:
The ECU **A-9000** is sensing the downstream SCR catalyst temperature is below the lower threshold limit.

Possible failure modes:

1. Ambient air temperature, below **-40.04 °C** (**-40.07 °F**).
2. Faulty SCR downstream exhaust gas temperature sensor **B-9104**, internal failure.
3. Faulty SCR downstream exhaust gas temperature sensor **B-9104**, installation.
4. Faulty ECU **A-9000**, software.

Solution:

1. Verify fault is present and active.

   Use the Electronic Service Tool (EST) to check the status of this fault.

   A. If the fault is present and active, continue with Step **2**.

   B. If the fault is no longer present or in an inactive state, the fault may be intermittent and not currently active. Continue with Step **5**.

2. Determine ambient temperature.

   Establish if ambient temperature is appreciably greater or less than **-40.04 °C** (**-40.07 °F**).

   A. If the ambient temperature is less than **-40.04 °C** (**-40.07 °F**), this fault will be present and active. The machine will need to be started or moved to a warmer environment, ignore this fault and return the machine to service.

   B. If the ambient temperature is greater than **-40.04 °C** (**-40.07 °F**), continue with Step **3**.

3. Check the condition of the SCR downstream exhaust gas temperature sensor **B-9104**.

   Disconnect the vehicle (VE) harness from the SCR downstream exhaust gas temperature sensor **B-9104** at connector **X-9104**.

   With the key switch in the OFF position, use a multimeter to measure the resistance on the sensor:

From	To	Value
X-9104 pin 1	**X-9104 pin 2**	there should be greater than **169.7 Ω**.
***NOTE:** To determine actual resistance values for various temperatures see **Selective Catalytic Reduction (SCR) temperature sensors - General specification (55.988)**.*		

   A. If there is greater than **169.7 Ω**, continue with Step **4**.

   B. If there is less than **169.7 Ω**, the SCR downstream exhaust gas temperature sensor **B-9104** has failed internally. Replace the sensor.

4. Verify proper sensor installation.

   Check the SCR downstream exhaust gas temperature sensor **B-9104** for correct mounting and the electrical connection.

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E0404-11-Right base tail lamp unit - Unidentified failure code

Control Module : UCM

Context:
When the right brake/turn signal is actuated, the Universal Control Module (UCM) A-001 supplies the voltage source to the right tail base lamp E-017. The UCM monitors the signal line for various faults. Fault Mode Indicator (FMI) -11 is active if the circuit is open.

Cause:
E-017 circuit is open.

Possible failure modes:

1. Faulty E-017.
2. Faulty electrical wiring, open condition.
3. Faulty controller.

Solution:

1. Verify this fault is still present and in an active state.

   A. If the fault is still present and active, continue to step **2**.

   B. If the fault is no longer present or inactive, return the machine to service.
2. Verify E-017 is not damaged.

   Place the key switch OFF.

   Disconnect the wiring harness from the light bulb.

   Remove the bulb.

   Visually inspect the light bulb for damage or discoloration.

   A. If the bulb is OK, leave the wiring harness disconnected. Continue to step **3**.

   B. If there is damage or discoloration, replace the light bulb.
3. Check the ground circuit.

   Place the key switch OFF.

   Use a multimeter to check for continuity.

From	To	Result
Harness connector **X-216** pin C	Chassis ground	There should be continuity.

   A. If there is continuity, leave the wiring harness disconnected. Continue with step **4**.

   B. If there is no continuity, locate and repair faulty wiring.
4. Check the signal circuit for an open condition.

   Place the key switch OFF.

   Disconnect the frame wiring harness from the cab wiring harness at connector **X-044**.

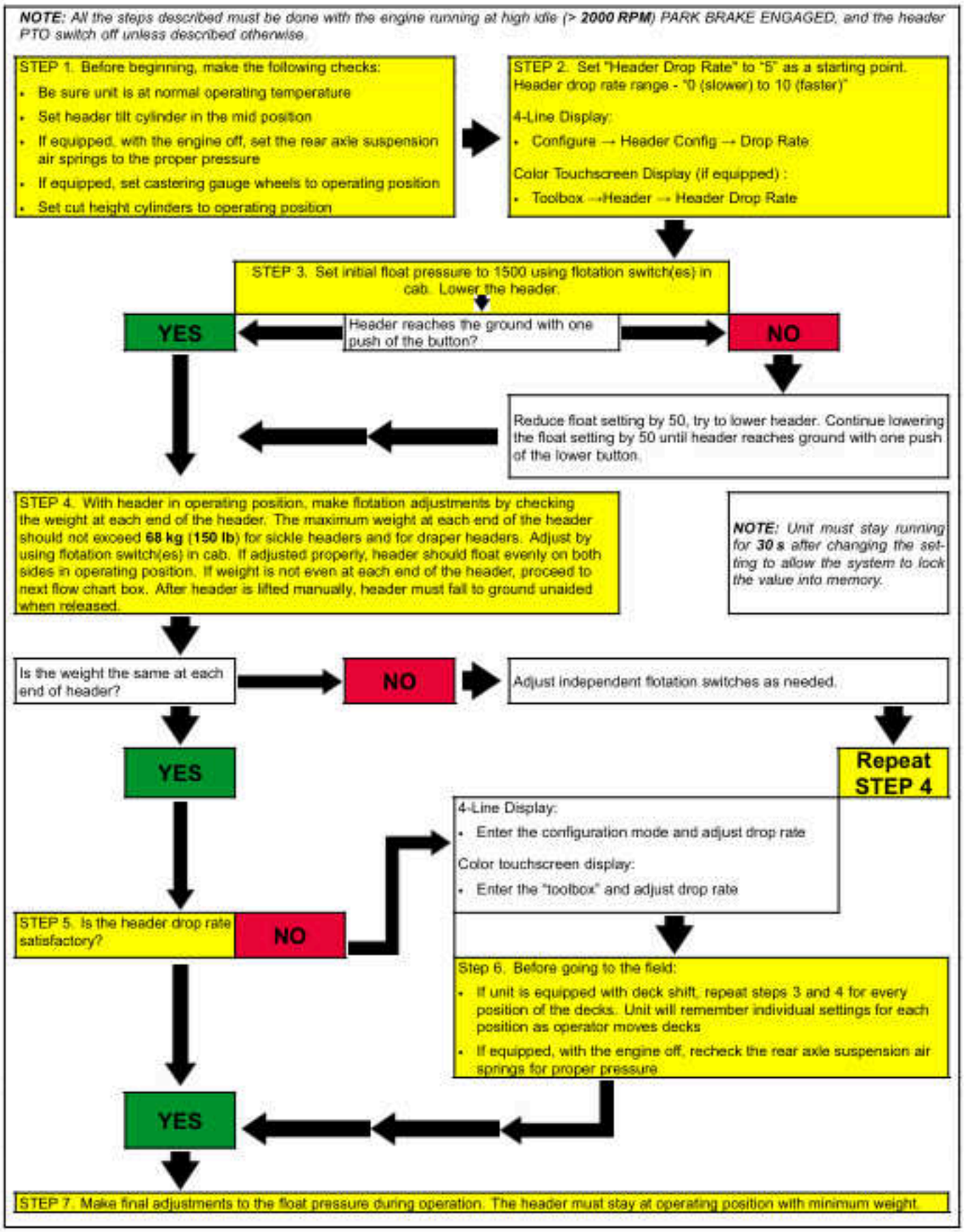
   Place a jumper wire between frame wiring harness connector **X-044** pin 51 to chassis ground.

   Use a multimeter to check for continuity.

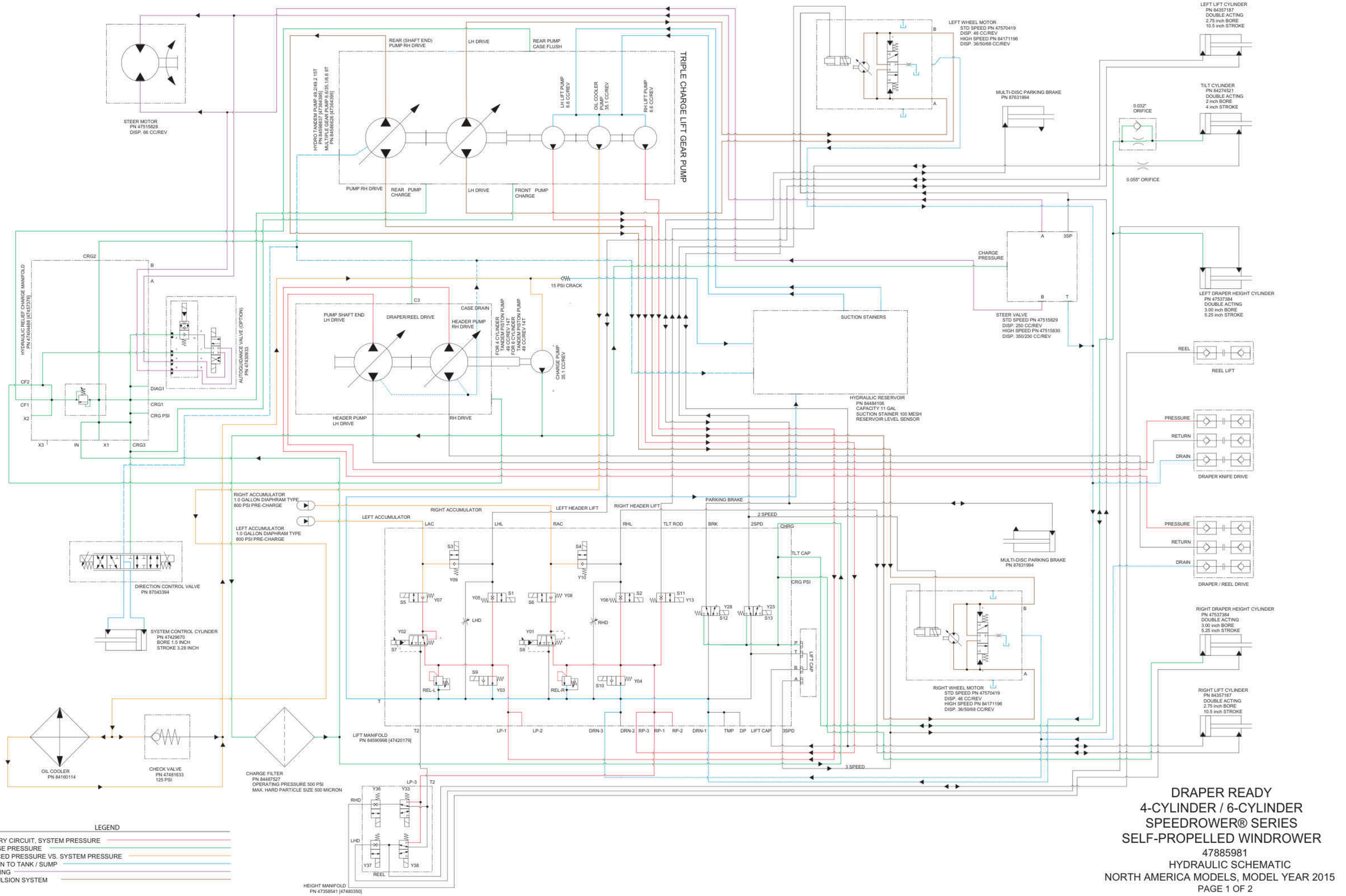
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Hydraulic systems - Overview - Setting header flotation - Draper header only

Speedrower® 160	NA Draper ready - Factory-fitted to accept draper



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