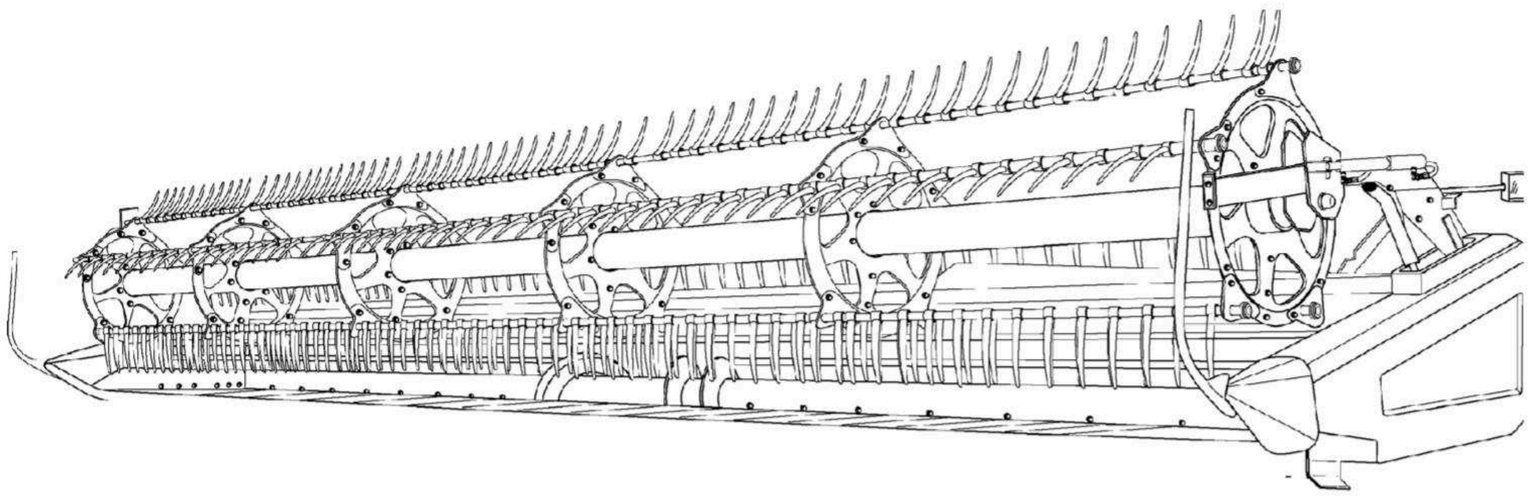
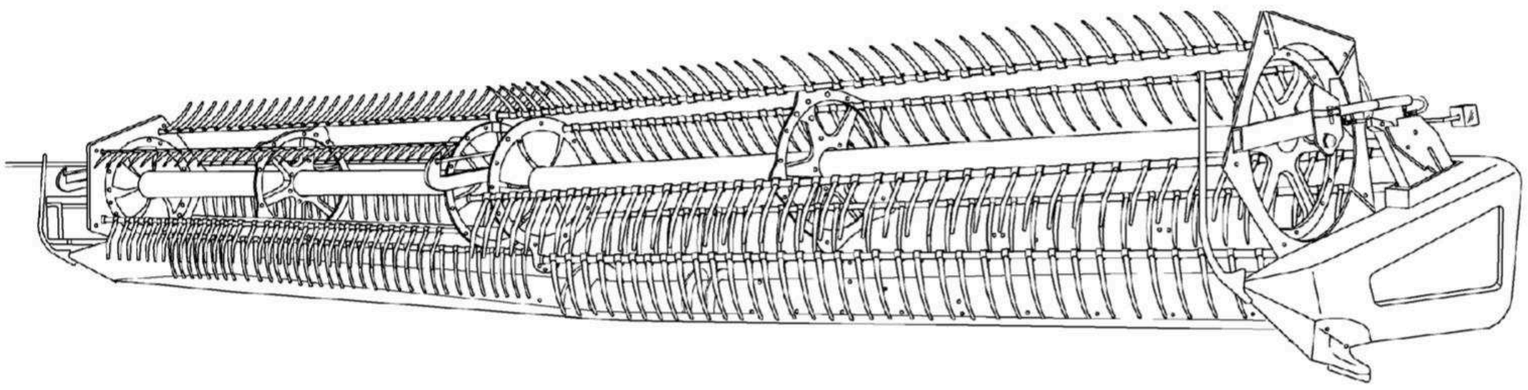




2142, 2152 and 2162 Draper Header CA20 Combine Adapter

Service Manual

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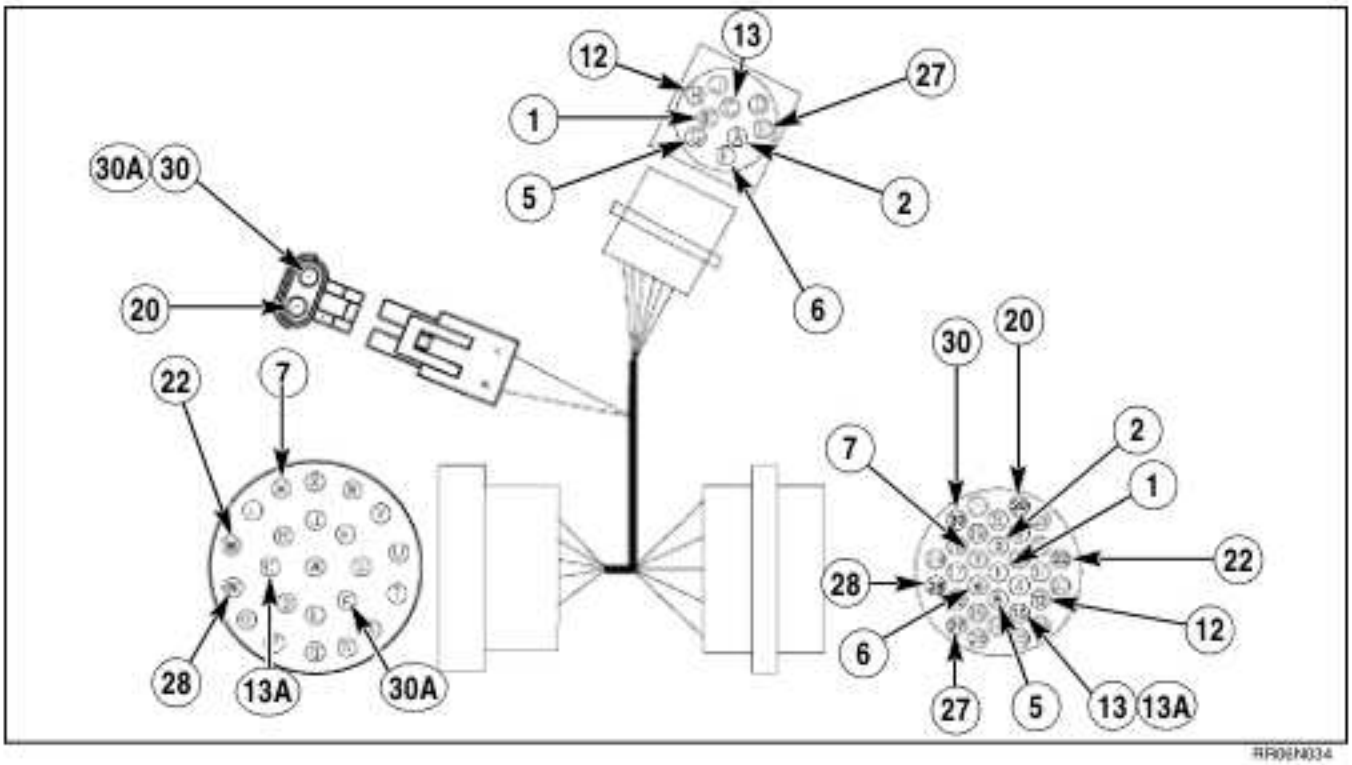
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CIRCUIT	GAUGE	COLOR	SERVICE
1	16	Yellow	Height Sensor
2	16	Yellow	Height Sensor
5	16	Pink	Height Sensor Power
6	16	Brown	Height Sensor Ground
7	16	Orange	Reel Speed Sensor
12	16	Pink	Header Type Power
13	16	Black	Header Type Ground
13A	16	Black	Reel Sensor Ground
20	16	White	Reel Fore / Aft Header Tilt Solenoid
22	16	Dark Blue	Left Turn
27	16	Yellow	Header Type
28	16	Light Blue	Right Turn
30	16	Black	Solenoid Ground
30A	16	Black	Turn Ground

COMBINE COMPLETION HARNESS - AFX8010, AXIAL-FLOW® 7010, 8010, 7120, 8120, 9120, 5088, 6088 and 7088 COMBINE

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AUTOMATIC HEADER HEIGHT CONTROL (AHHC) TROUBLESHOOTING
FLOAT OPTIMIZER TROUBLESHOOTING

Adjusting the Sensor's Range

If the AHHC (float optimizer) function is not acceptable at the initial settings, it may be necessary to adjust the sensor angle. The sensor voltage output must change at least 3 volts in order to calibrate successfully. If the difference between the high and low voltage readings is not 3 volts you will need to adjust the high and low limits.

Check the sensor voltage output. It must be within the following range:

- **2300 and 2500 Series Combine -** 2.5 to 7.5 volts, measured across the Blue and Black wires at the sensor.
- **AFX8010, AXIAL-FLOW® 7010, 8010, 7120, 8120, 9120, 5088, 6088 and 7088 Combine -** 0.5 to 4.5 volts, measured across the Yellow and Brown wires at the sensor.
- Check high voltage limit with Header 150 mm (6 inches) off ground and resting on down stops.

NOTE: *If Header is not on down stops, the voltage may go out of range during operation, causing a malfunction of the float optimizer. Be sure to take high limit voltage readings with Header on down stops.*

- Check low voltage limit with Header completely lowered and Adapter separated from the Header.

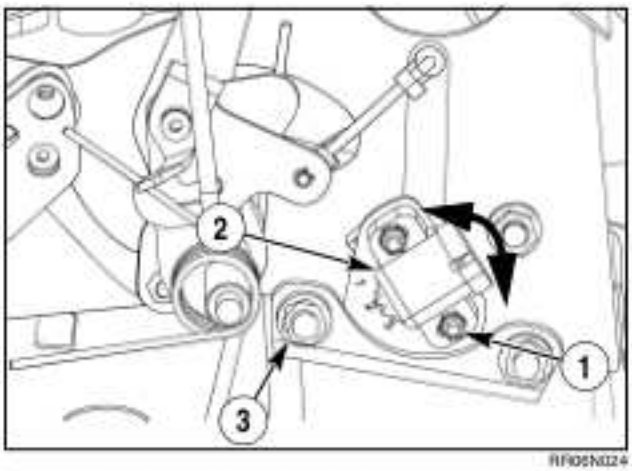
To Adjust High Voltage Limit:

1. Loosen sensor mounting bolts (1).
2. Rotate the sensor (2). Rotate CLOCKWISE to increase voltage and COUNTERCLOCKWISE to decrease voltage.
3. Tighten sensor mounting bolts (1).

To Adjust Low Voltage Limit:

1. Loosen sensor mounting bolts (3).
2. Slide the sensor forward to raise and rearward to lower.
3. Tighten sensor mounting bolts (3).

If the readings are in the proper range the Automatic Header height can be calibrated.



SENSOR RANGE ADJUSTMENT

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