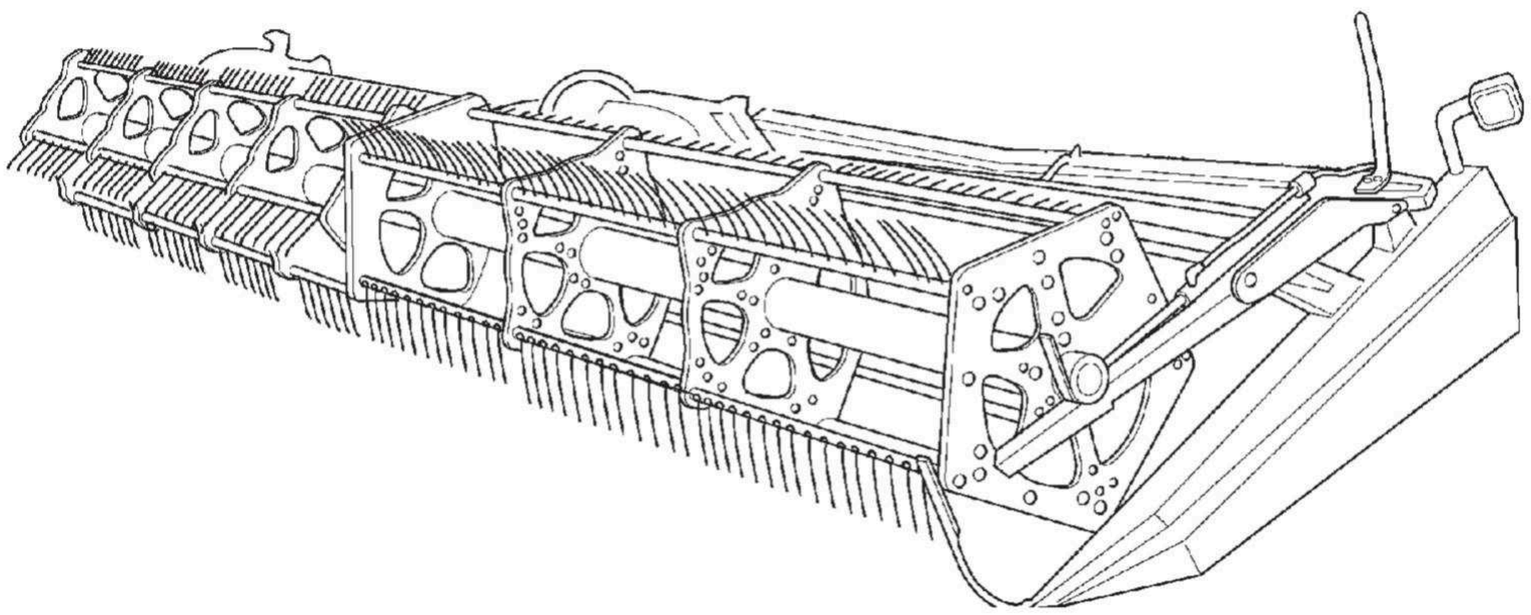


2042, 2052 and 2062 Draper Header

Repair Manual

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CASE

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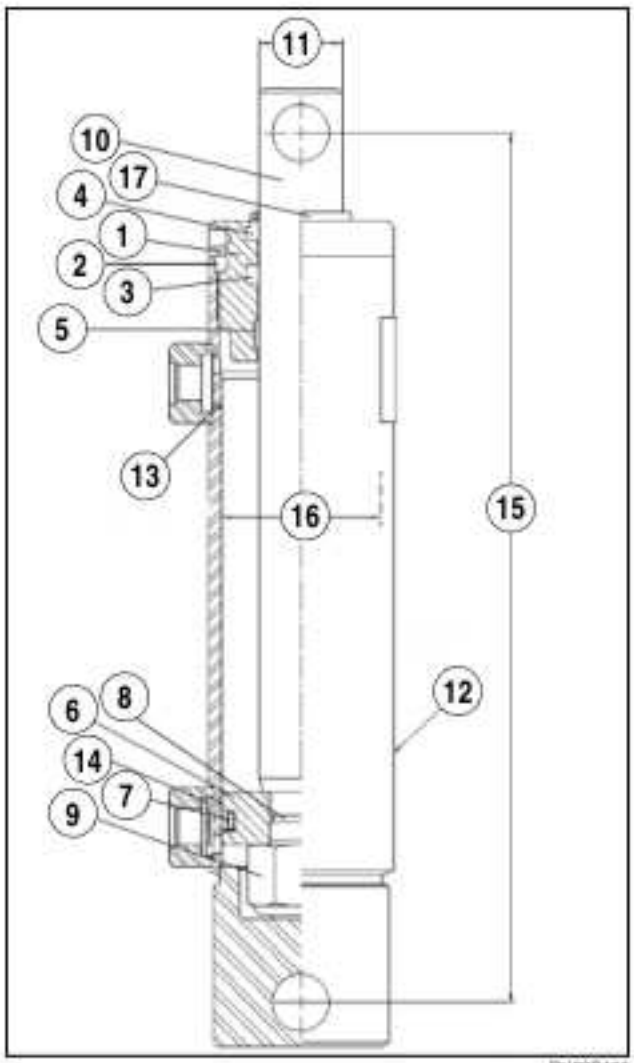
Master Reel Lift Cylinder

Prior to 2042 Header P.I.N. CCC0013130
Prior to 2052 Header P.I.N. CCC0014385
Prior to 2062 Header P.I.N. CCC0015138

NOTE: *Cylinders rephase through a rephasing port orifice rather than through a poppet valve in the piston.*

Items with an "*" are found in the Seal Repair Kit 394522A*.

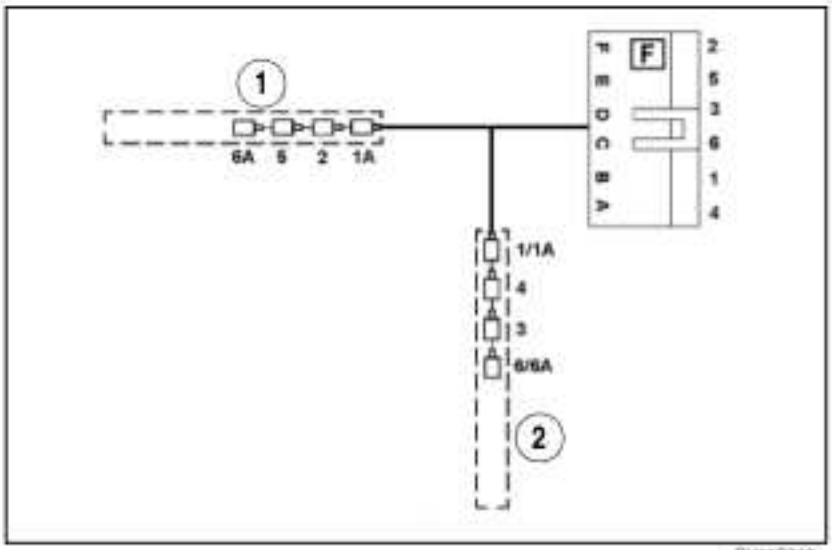
1. Raise reel UP and engage reel safety locks, then lower reel on to locks.
2. Remove pin at top of cylinder.
3. Disconnect hoses and remove lower cylinder pin, remove cylinder.
4. Clamp cylinder in vise at base end to prevent deforming barrel of cylinder. Remove head plate with pipe wrench.
5. Remove piston and rod assembly. Clamp hex nut in vise and turn rod out of nut. Pull piston off rod to replace O-ring (8) and replace with new one.
6. Push piston back onto rod and thread piston back into nut until piston firmly seated against shoulder and rod sticks out slightly past nut.
7. Replace piston seal (Blue) and flat expander ring (Black) (7) using oil or grease as a lubricant. Prior to re-insertion of piston examine barrel for nicks and scratches. DO NOT hone cylinder barrel. Replace cylinder.
8. Replace seals on head plate and thread securely into cylinder barrel. Re-install cylinder on the Header.



1. HEAD PLATE
2. O-RING, 1-7/8 X 2-1/4 INCH **
3. ROD SEAL **
4. ROD WIPER SEAL **
5. WEAR RING **
6. CYLINDER PISTON
7. PISTON SEAL **
8. O-RING **
9. NYLON HEX LOCK NUT
10. PISTON ROD
11. 30 mm (1-3/16 INCH)
12. 113834 STAMPED ON BARREL
13. REPHASING PORT
14. REPHASING WASHER
15. STROKE 155 mm (6-1/8 INCH) CLOSED 314 mm (12-3/8 INCH)
16. 57 mm (2-1/4 INCH)
17. O-RING

MASTER REEL LIFT CYLINDER

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1. RIGHT TAIL LAMPS 2. LEFT TAIL LAMPS

REAR WIRING HARNESS

TERMINAL	WIRE COLOR	CIRCUIT
1	White	Ground
1A	White	Ground
2	Red	Right Turn Red
3	Yellow	Left Turn Amber
4	Black	Left Turn Red
5	Green	Right Turn Amber
6	Brown	Red Tail Lamp
6A	Brown	Red Tail Lamp

The Rear Wiring harness is connected to the Transport Lighting Relay Module at Connection "E". The wires that lead from the rear harness go to the Left and Right turn signals.

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Troubleshooting

If optimizer function is not acceptable at the initial settings, it may be necessary to adjust sensor angle (Step 6).

- Check the sensor voltage output. It must be within the range of

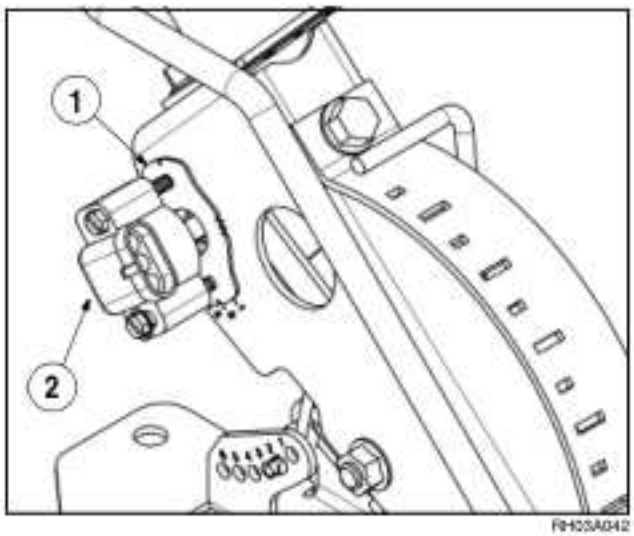
  A. 2.5 to 7.5 volts for the 2100 and 2300 Series Combines (or as specified in your Combine Manual), measured across the Blue and Black wires at the sensor.

  B. 0.5 to 4.5 volts for AFX Combine (or as specified in your Combine Manual), measured across the Yellow and Brown wires at the sensor.

- Check high voltage limit with Header 150 mm (6 inches) off the ground and resting on down stops (Step 3).

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 feeder housing completely lowered and Header floated UP off of the down stops.



RH03A042

- To adjust high voltage limit:

  A. Loosen sensor mounting bolts.

  B. Rotate stop plate (1) and sensor (2) together. Rotate CLOCKWISE to increase voltage and COUNTERCLOCKWISE to decrease voltage.

  C. Tighten sensor mounting bolts.

- To adjust low voltage limit:

  A. Loosen sensor mounting bolts.

  B. Rotate sensor (2) only [relative to stop plate (1). Rotate CLOCKWISE to increase voltage and COUNTERCLOCKWISE to decrease voltage.

  C. Tighten sensor mounting bolts.

NOTE: *For best performance of the sensor (2), it should be rotated completely COUNTERCLOCKWISE with respect to stop plate (1).*

ATTENTION: *After adjustments are complete, make sure all tools and any equipment used during adjustment procedure are removed from the machine.*

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