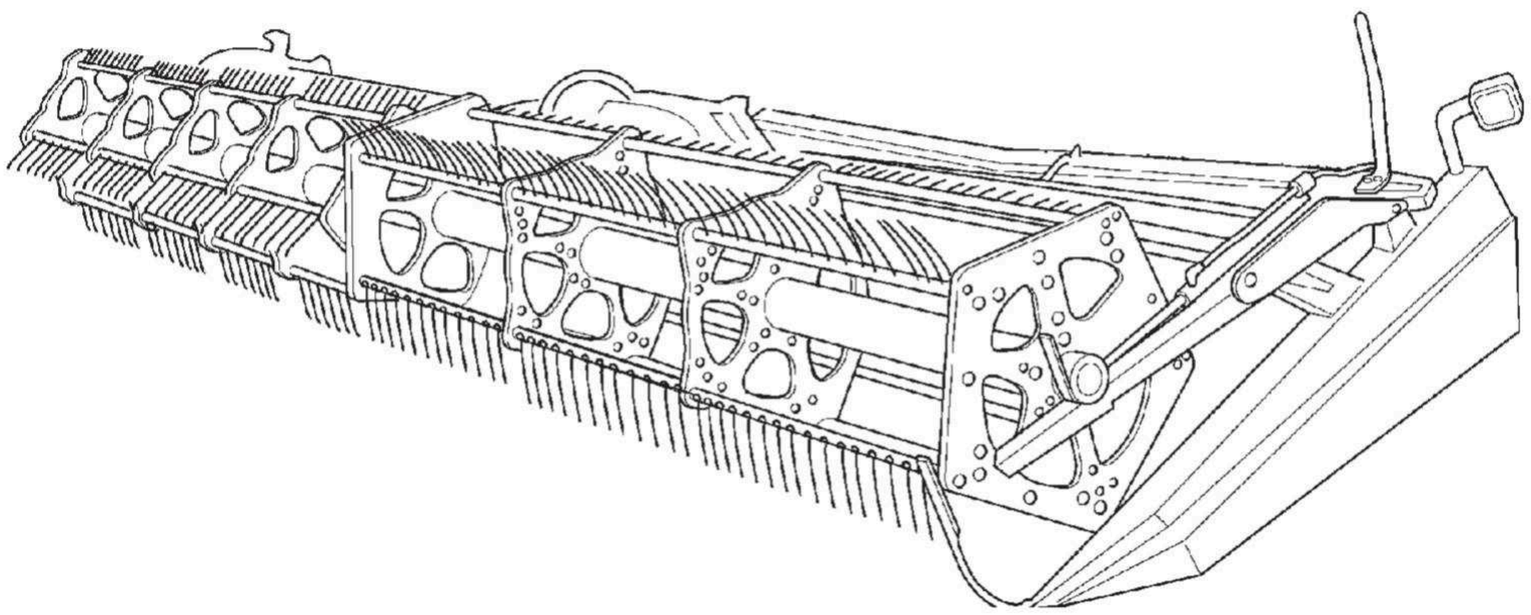


2042, 2052 and 2062 Draper Header

Repair Manual

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TABLE OF CONTENTS

GENERAL INFORMATION 9

STANDARD BOLT TORQUE 9
- U.S. Standard 9
- Metric 10
- Metric Torque for Aluminum Components 10

HYDRAULIC FITTINGS 11
- Steel Hydraulic Fittings 11

PRODUCT IDENTIFICATION NUMBERS 12

ENVIRONMENT 12

PLASTIC AND RESIN PARTS 12

LEFT DRIVE SHIELD 13

MAXIMUM OPENING FOR RIGHT END DELIVERY 13

LUBRICATION AND MAINTENANCE CHART 14

GENERAL SAFETY INFORMATION 15
- Safety Rules 15
- Service Area, Fire Extinguisher, First Aid Kit 16
- Personal Safety 17
- Combine Ballast 18
- Transportation Safety 19
- Tire Safety 20
- Maintenance Safety 21
- Driveshaft Safety 22

COMBINE FEEDER SAFETY LOCK 23

REEL SAFETY LOCK 24
- Fire or Explosion Prevention 24

TROUBLESHOOTING 25

GENERAL PROCEDURES 41
- Taper Lock Hub 41
  - How It Works 41
  - Removal and Installation 41
- Lock Collar 43
  - How It Works 43
  - Removal and Installation 43
- Universal Joint 45
  - How It Works 45
  - Rebuilding the Universal Joint 45
- Guards 49
  - How It Works 49
- Guard Adjustment 50
  - Regular Guard 50
  - Stub Guard 50

MidWestTech | Case 2042, 2052, 2062 Draper Header Service Manual | Publication 6-14912 Order the manual at mid-west-tech.com >

KNIFE DRIVE SYSTEM 51
Knife Drive System - How It Works 51
Combine Output Shaft Speeds 51
Knife Drive Input Shaft 52
How It Works 52
Bearing Replacement 52
Drive Belt and Idler Tensioner 55
How It Works 55
Removal Alignment and Tensioning 55
Knife Drive Wobble Box 56
How It Works 56
Rebuilding Wobble Box Tools 59
Kit Contents 59
Wobble Box Removal 60
Wobble Box Disassembly 61
Wobble Box Reassembly 67
Wobble Box Installation 79

DRAPER DRIVE SYSTEM 81
Drive System 81
How It Works 81
Combine Adapter Hydraulic Schematics 82
Drapers 84
How It Works 84
Draper Design 84
Installing Drapers 85
Draper Rollers 85
How It Works 85
Hydraulic Draper Motor 85
Draper Drive Assembly 86
Drive Roller Bearing Replacement 87
Idler Roller Bearing Replacement 91
Feed Draper Rollers 94
How It Works 94
Feed Draper Roller Assembly 94
Feed Draper Drive Roller Bearing Replacement 95
Feed Draper Idler Roller Bearing Replacement 98
Draper Tensioning 103
How It Works 103
Draper Tensioning System Repair 104
Feed Draper Deck 106
How It Works 106
Feed Deck Options 106
Widths 106
Feed Draper Deck Removal 107
Prior to Combine Adapter P.I.N. CCC0016651 107
Combine Adapter P.I.N. CCC0016651 and After 111
Retractable Tine Drum (RTD) 114
How It Works 114
Tine Repair 114
Tine Pitch 116
Retractable Tine Drum (RTD) Repair 117
Removing and Repairing the Retracting Tine Drum (RTD) 118
Repositioning the Retracting Tine Drum (RTD) 120

MidWestTech | Case 2042, 2052, 2062 Draper Header Service Manual | Publication 6-14912 Order the manual at mid-west-tech.com >

REEL DRIVE SYSTEM 123
How It Works 123
Reel Drive Hydraulic Schematic 124
Three Arm Reel Lift 124
Reel and Conveyor Drives 125
Reel Drive Motor 126
How It Works 126
Reel Drive Motor Removal 127
Reel Drive Bearing Replacement 129
Reel Bearing Replacement (Tail End) 138

HYDRAULIC SYSTEM 139
How It Works 139
Combine Adapter Schematics 140
Forward Operation - Outer Pump 142
Combine Adapter Schematics - Outer Pump Forward Operation 143
Combine Adapter Schematics - Outer Pump Forward Operation, Over Relief 144
Forward Operation - Inner Pump 145
Combine Adapter Schematics - Inner Pump Forward Operation 146
Combine Adapter Schematics - Inner Pump Forward Operation, Over Relief 147
Reverse Operation 148
Combine Adapter Schematics - Reverse Operation 149
Combine Adapter Schematics - Reverse Operation, Relief 150
Combined Reel Fore/Aft Tilt Valve Block 151
Delta Selector Valve - Reel Fore/Aft 152
Prior to P.I.N. CCC0016651 152
HydraForce Selector Valve 153
P.I.N. CCC0016651 and After 153
HydraForce Selector Valve Schematics 154
AFX Combine 154
2300 Series Combines 155
Hydraulic Testing 156
Minimum Recommended Testing Equipment 156
Required Tools and Parts 156
Checking Relief Valve Setting and Flow Rating 157
RV3 Side Draper - Forward 157
If Relief Pressure Requires Adjustment 158
RV2 Retracting Tine Drum and Feed Draper - Forward 159
If Relief Pressure Requires Adjustment 160
RV1 Retracting Tine Drum and Feed Draper - Reverse 161
If Relief Pressure Requires Adjustment 162
Checking Sequence Valve Operation 163
Testing Hydraulic Flows 164
Testing Pump Output Pressure 165
Prior to Combine Adapter P.I.N. CCC0016044 165
Combine Adapter P.I.N. CCC0016044 and After 166
Hydraulic Oil Specifications 167
Oil Capacity 167
Hydraulic Oil Change Procedure 168
Hydraulic Oil Filter Change 169
Reel Lift Cylinders 170
Reel Lift Theory 170
Diagnostic Tests - Static 171
Diagnostic Tests - Dynamic 172
Static and Dynamic Test Diagnostic Chart 173
Problems and Solutions 173

MidWestTech | Case 2042, 2052, 2062 Draper Header Service Manual | Publication 6-14912 Order the manual at mid-west-tech.com >

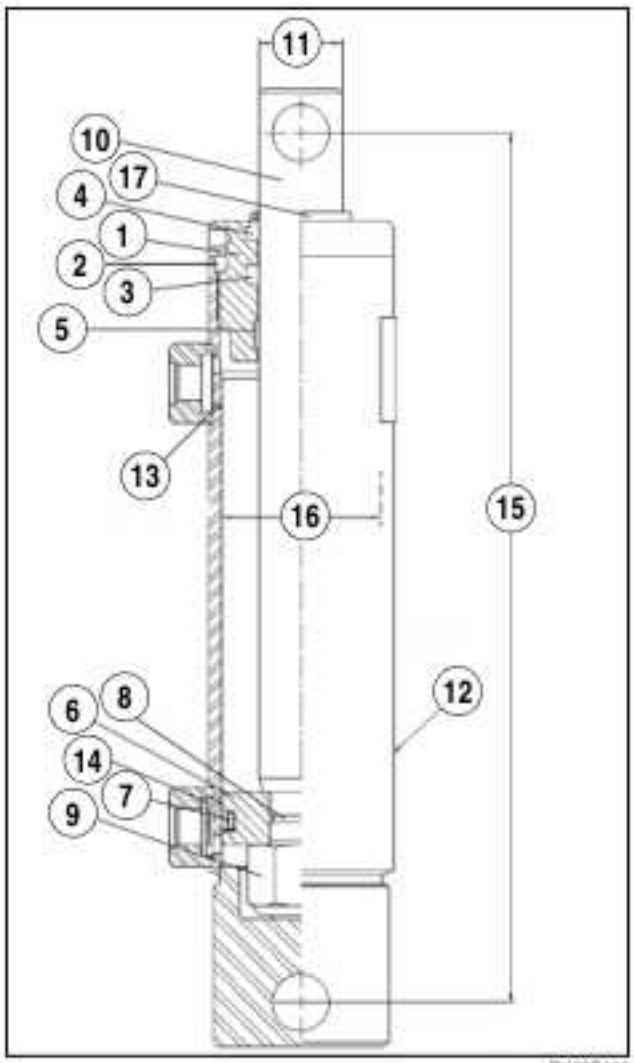
Master Reel Lift Cylinder

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*.

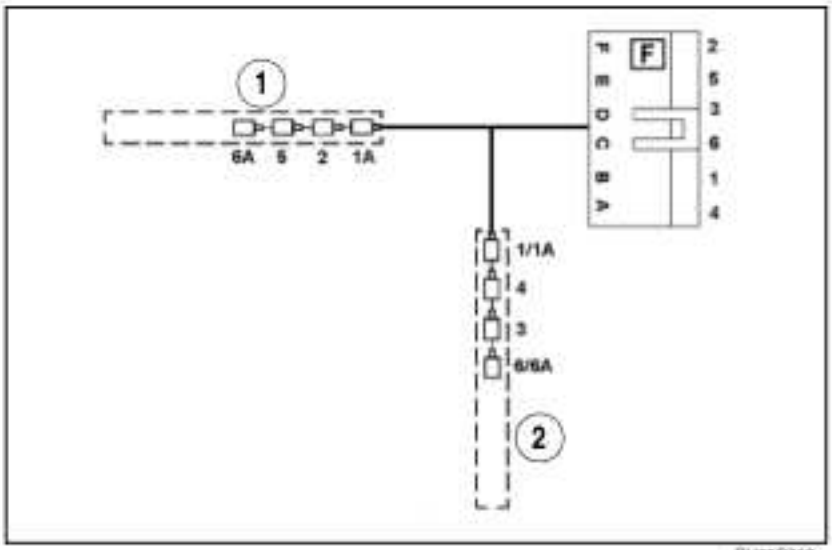
1. Raise reel UP and engage reel safety locks, then lower reel on to locks.
2. Remove pin at top of cylinder.
3. Disconnect hoses and remove lower cylinder pin, remove cylinder.
4. Clamp cylinder in vise at base end to prevent deforming barrel of cylinder. Remove head plate with pipe wrench.
5. Remove 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

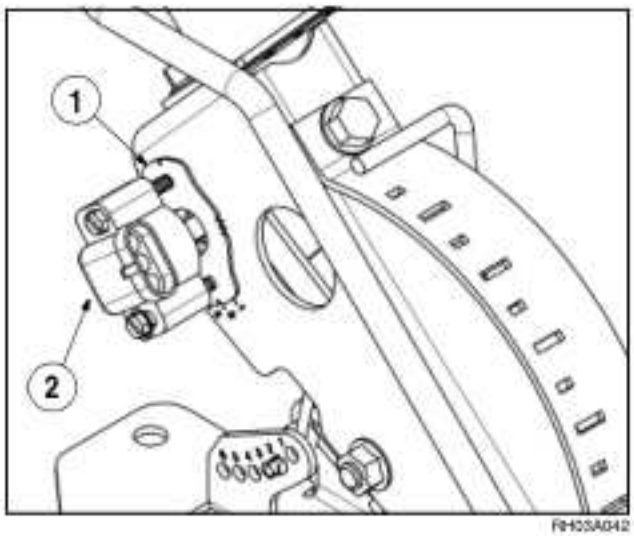
  A. 2.5 to 7.5 volts for the 2100 and 2300 Series Combines (or as specified in your Combine Manual), measured across the Blue and Black wires at the sensor.

  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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