

2142, 2152 and 2162 Draper Header CA20 Combine Adapter

Service Manual

84175530 (Replaces 84135858) Issued April, 2009



GENERAL TABLE OF CONTENTS

| - GENERAL INFORMATION AND SAFETY | |
|---|------|
| GENERAL INFORMATION | |
| STANDARD BOLT TORQUE | |
| U.S. STANDARD | 2 |
| METRIC | 3 |
| METRIC TORQUE FOR ALUMINUM COMPONENTS | |
| HYDRAULIC FITTINGS | |
| STEEL HYDRAULIC FITTINGS | 5 |
| PRODUCT IDENTIFICATION NUMBERS | 6 |
| ENVIRONMENT | |
| DISASSEMBLY, DECOMMISSIONING OR SCRAPPING THE MACHINE | |
| PLASTIC AND RESIN PARTS | |
| SAFETY DECALS | |
| LUBRICATION AND MAINTENANCE CHART | |
| OIL CAPACITIES | |
| GENERAL SAFETY INFORMATION | J |
| SAFETY RULES | |
| SERVICE AREA, FIRE EXTINGUISHER, FIRST AID KIT | |
| PERSONAL SAFETY | |
| DO NOT OPERATE TAG | . 14 |
| COMBINE BALLAST | |
| TRANSPORTATION SAFETY | |
| TIRE SAFETY | |
| MAINTENANCE SAFETY | |
| | |
| DRIVESHAFT SAFETY | |
| COMBINE FEEDER SAFETY LOCK | . 20 |
| 2300 / 2500 SERIES COMBINE | |
| AFX8010, AXIAL-FLOW® 7010, 8010, 7120, 8120 AND 9120 | |
| AXIAL-FLOW® 5088, 6088 AND 7088 | |
| REEL SAFETY LOCK | |
| FIRE OR EXPLOSION PREVENTION | . 24 |
| TROUBLE COLORENS | |
| - TROUBLESHOOTING | |
| TROUBLESHOOTING | . 25 |
| | |
| - GENERAL PROCEDURES | |
| TAPER LOCK HUB | |
| HOW IT WORKS | |
| REMOVAL AND INSTALLATION | |
| LOCK COLLAR | |
| HOW IT WORKS | |
| REMOVAL AND INSTALLATION | |
| UNIVERSAL JOINT | |
| HOW IT WORKS | |
| REBUILDING THE UNIVERSAL JOINT | |
| GUARDS | |
| HOW IT WORKS | |
| POINTED GUARD HEADER | |
| DOUBLE KNIFE HEADERS - POINTED GUARDS | _ |
| DOUBLE KNIFE HEADERS - FORGED STUB GUARDS | |
| IMPORTANT GUARD INFORMATION | |
| GUARD ADJUSTMENTS | |

| 4 - KNIFE DRIVE | 55 |
|--|-----|
| KNIFE DRIVE SYSTEM | 55 |
| SINGLE KNIFE | 55 |
| DOUBLE KNIFE | 56 |
| WOBBLE BOX REMOVAL | 58 |
| SINGLE KNIFE | 58 |
| DOUBLE KNIFE | 61 |
| RIGHT SIDE WOBBLE BOX REMOVAL | 64 |
| DOUBLE KNIFE DRIVE TIMING | 66 |
| KNIFE DRIVE WOBBLE BOX | 67 |
| WOBBLE BOX REBUILD TOOLS | 69 |
| WOBBLE BOX DISASSEMBLY | 70 |
| WOBBLE BOX ASSEMBLY | 77 |
| WOBBLE BOX INSTALLATION | 88 |
| | |
| 5 - ADAPTER DRIVE | |
| ADAPTER GEARBOX | 91 |
| PREPARE TO REMOVE GEARBOX | |
| INSTALL GEARBOX | 92 |
| DISASSEMBLY | 93 |
| ASSEMBLY | 97 |
| FEED AUGER | 105 |
| DRUM AUGER INTERNAL REPAIR - PRIOR TO P.I.N. Y9ZN | 110 |
| DRUM AUGER INTERNAL REPAIR - P.I.N. Y9ZN AND AFTER | |
| ASSEMBLY | 118 |
| FEED AUGER INSTALLATION | 122 |
| | |
| 6 - DRAPER DRIVE | 123 |
| DRAPER DRIVE SYSTEM | 123 |
| HYDRAULIC SCHEMATIC | |
| DRAPER DECK | 124 |
| IDLER ROLLER BEARING REPLACEMENT | 128 |
| DRIVE ROLLER BEARING REPLACEMENT | |
| ADAPTER FEED DECK | |
| ADAPTER IDLER ROLLER BEARING REPLACEMENT | 137 |
| FEED DRAPER DRIVE ROLLER BEARING REPLACEMENT | 141 |
| | |
| 7 - REEL DRIVE | _ |
| REEL DRIVE SYSTEM | 145 |
| REEL CONFIGURATION | |
| SINGLE SPAN REEL REMOVAL | |
| DOUBLE REEL (SPLIT) REMOVAL | 151 |
| REEL DRIVE REPAIR | |
| SINGLE REEL DRIVE DISASSEMBLY | 157 |
| SINGLE REEL ASSEMBLY | |
| SPLIT REEL DRIVE DISASSEMBLY | 166 |
| DOUBLE REEL DRIVE ASSEMBLY | 171 |
| | |
| 8 - HYDRAULIC SYSTEM | |
| COMBINE ADAPTER HYDRAULICS | |
| HOW IT WORKS | |
| FORWARD OPERATION | |
| FEED DRAPER RELIEF | |
| SIDE DRAPER RELIEF | 179 |
| SCHEMATICS | 180 |

| REVERSE OPERATION | 186 |
|--|-----|
| RELIEF PRESSURE | 186 |
| SCHEMATICS | |
| COMBINE ADAPTER HYDRAULIC PRESSURE TEST | 190 |
| COMBINED REEL FORE / AFT HEADER TILT BLOCK | |
| THREE SOLENOID DESIGN SELECTOR VALVE | |
| HYDRAFORCE SELECTOR VALVE | |
| SELECTOR VALVE SCHEMATIC | |
| TWO SOLENOID DESIGN SELECTOR VALVE | |
| HYDRAFORCE SELECTOR VALVE | |
| SELECTOR VALVE SCHEMATIC | |
| COMBINE DATA - OUTPUT SHAFT SPEEDS ON HEADER | 201 |
| HYDRAULIC TESTING AND REPAIR | |
| MINIMUM TEST EQUIPMENT | |
| CHECKING PISTON PUMP (KNIFE DRIVE) FLOW AND COMPENSATOR PRESSURE | |
| CHECKING FISTON FOME (KNIFE DRIVE) FLOW AND COMPENSATOR PRESSORE | |
| CHECKING RELIEF AND FLOW - FEED DRAPER FORWARD | |
| SETTING THE UNLOADER VALVE "V7" | |
| | |
| TESTING GEAR PUMP EFFICIENCY | |
| CHECKING PUMP EFFICIENCY | |
| TESTING PISTON PUMP EFFICIENCY | |
| CHECKING PUMP EFFICIENCY | |
| HYDRAULIC OIL SPECIFICATIONS | |
| ADAPTER OIL TEMPERATURE | |
| OIL CHANGE PROCEDURE | |
| ADDING OIL TO RESERVOIR | |
| REEL LIFT CYLINDERS | |
| REEL LIFT THEORY | |
| REEL DRIVE, LIFT AND FORE / AFT SCHEMATICS | 220 |
| DIAGNOSTIC TEST - STATIC | |
| DIAGNOSTIC TEST - DYNAMIC | |
| STATIC AND DYNAMIC TEST DIAGNOSTIC CHART | 222 |
| CYLINDER REPAIR | 224 |
| CENTER MASTER REEL LIFT CYLINDER | 224 |
| REEL LIFT SECONDARY MASTER LEFT CYLINDER | 225 |
| REEL LIFT SLAVE RIGHT CYLINDER | |
| FORE / AFT CYLINDER | |
| SINGLE REEL - REEL LIFT (LEFT) CYLINDER | 228 |
| SINGLE REEL - REEL LIFT (RIGHT) CYLINDER | 229 |
| FORE / AFT CYLINDER | |
| DOUBLE REEL - CENTER MASTER REEL LIFT CYLINDER | 231 |
| DOUBLE REEL LIFT RIGHT CYLINDER | 232 |
| DOUBLE REEL LIFT LEFT CYLINDER | 233 |
| DOUBLE REEL FORE / AFT CYLINDER | 234 |
| HYDRAULIC MOTOR | |
| SIDE DRAPERS | |
| SIDE DRAPERS | |
| DECK SHIFT | |
| REEL | |
| FEED DRAPER | |
| | 274 |

| 9 | - ELECTRICAL SYSTEM | 277 |
|----|--|-------|
| | ELECTRICAL HARNESSES | 277 |
| | HEADER - GENERAL INFORMATION | 277 |
| | LIGHTING | 278 |
| | PRIOR TO P.I.N. Y8ZN | 278 |
| | P.I.N. Y8ZN AND AFTER | |
| | ELECTRICAL HARNESS COMBINE SPECIFIC | 290 |
| | TRANSPORT WIRING HARNESSES | |
| | SELECTOR VALVE | |
| | COMBINE ELECTRICAL HARNESS FOR THE SELECTOR VALVE | |
| | AUTOMATIC HEADER HEIGHT CONTROL (AHHC) | 303 |
| | FLOAT OPTIMIZER | |
| | HOW IT WORKS | 303 |
| | CALIBRATE | |
| | AUTOMATIC HEADER HEIGHT CONTROL (AHHC) TROUBLESHOOTING | |
| | FLOAT OPTIMIZER TROUBLESHOOTING | |
| | ADJUSTING THE SENSOR'S RANGE | |
| | POTENTIOMETER TROUBLESHOOTING | |
| | DIAGNOSTIC OF POTENTIOMETER | |
| | REEL SPEED | |
| | HOW IT WORKS | 308 |
| | | |
| 10 |) - FLEX LINKAGE | |
| | FLEX LINKAGE | |
| | HOW IT WORKS | |
| | DISASSEMBLY | |
| | ASSEMBLY | |
| | WING BALANCE | |
| | CUTTER BAR STRAIGHTNESS | |
| | CUTTER BAR STRINGING | . 318 |
| | - OTBUOTURE | 040 |
| 11 | I - STRUCTURE | |
| | IMPACT REPAIRS | |
| | HOW IT WORKS | |
| | CUTTER BAR STRINGING | |
| | | .3/() |

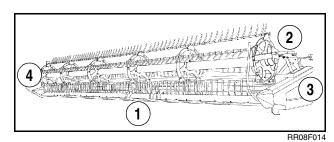
GENERAL INFORMATION

This Service Manual contains important information about the working, adjustment, and repair of your Draper Header and Combine Adapter. Refer to the Table of Contents at the beginning of this manual to locate specific items about the machine.

This Service Manual should be used in conjunction with the Draper Header Operator's Manual.

The Left and Right side of the Draper Header and Combine Adapter are the same as your Left and Right hand while seated in the Combine Operator's seat facing forward in a normal field operation position.

NOTE: Throughout this manual you will see a symbol. The information supplied after the symbol offers suggestions to help you with the operation and maintenance of the machine.



1. FRONT 2. REAR

- 3. LEFT SIDE
- 4. RIGHT SIDE

RIGID HEADER SHOWN

STANDARD BOLT TORQUE

NOTE: The tables below give correct torque values for various bolt sizes. Tighten all bolts specified in the tables unless otherwise noted.

U.S. Standard

| Grade 5 Bolts, Nuts, and Studs | | | | | |
|--------------------------------|------------------|------------------|--|--|--|
| | | | | | |
| Size | Pound- Inches | Newton metres | | | |
| 1/4 inch | 108 to 132 | 12 to 15 | | | |
| 5/16 inch | 204 to 252 | 23 to 28 | | | |
| 3/8 inch | 420 to 504 | 48 to 57 | | | |
| Size | Newton metres | | | | |
| 7/16 inch | 73 to 87 | | | | |
| 1/2 inch | 80 to 96 | 109 to 130 | | | |
| 9/16 inch | 110 to 132 | 149 to 179 | | | |
| 5/8 inch | 150 to 180 | 203 to 244 | | | |
| 3/4 inch | 270 to 324 | 366 to 439 | | | |
| 7/8 inch | 400 to 480 | 542 to 651 | | | |
| 1.0 inch | 580 to 696 | 787 to 944 | | | |
| 1-1/8 inch | 800 to 880 | 1085 to 1193 | | | |
| 1-1/4 inch | 1120 to 1240 | 1519 to 1681 | | | |
| 1-3/8 inch | 1460 to 1680 | 1980 to 2278 | | | |
| 1-1/2 inch | 1940 to 2200 | 2631 to 2983 | | | |

| Grade 8 Bolts, Nuts, and Studs | | | | | |
|--|------------------|------------------|--|--|--|
| $\longleftrightarrow \hspace{0.1cm} \bigstar \hspace{0.1cm} \Longleftrightarrow \hspace{0.1cm} $ | | | | | |
| Size | Pound- Inches | Newton metres | | | |
| 1/4 inch | 144 to 180 | 16 to 20 | | | |
| 5/16 inch | 288 to 348 | 33 to 39 | | | |
| 3/8 inch | 540 to 648 | 61 to 73 | | | |
| Size | Pound- Feet | Newton metres | | | |
| 7/16 inch | 70 to 84 | 95 to 114 | | | |
| 1/2 inch | 110 to 132 | 149 to 179 | | | |
| 9/16 inch | 160 to 192 | 217 to 260 | | | |
| 5/8 inch | 220 to 264 | 298 to 358 | | | |
| 3/4 inch | 380 to 456 | 515 to 618 | | | |
| 7/8 inch | 600 to 720 | 814 to 976 | | | |
| 1.0 inch | 900 to 1080 | 1220 to 1465 | | | |
| 1-1/8 inch | 1280 to 1440 | 1736 to 1953 | | | |
| 1-1/4 inch | 1820 to 2000 | 2468 to 2712 | | | |
| 1-3/8 inch | 2380 to 2720 | 3227 to 3688 | | | |
| 1-1/2 inch | 3160 to 3560 | 4285 to 4827 | | | |
| NOTE: Use thick nuts with Grade 8 bolts. | | | | | |

Metric

| Grade 8.8 Bolts, Nuts, and Studs | | | | | |
|----------------------------------|----------------------------|------------------|--|--|--|
| 8.8 | | | | | |
| Size | Pound- Size Inches | | | | |
| M4 | 24 to 36 | 3 to 4 | | | |
| M5 | 60 to 72 | 7 to 8 | | | |
| M6 | 96 to 108 | 11 to 12 | | | |
| M8 | 228 to 276 | 26 to 31 | | | |
| M10 | M10 456 to 540 | | | | |
| Size | Pound- Feet | Newton metres | | | |
| M12 | 66 to 79 | 90 to 107 | | | |
| M14 | 106 to 127 | 144 to 172 | | | |
| M16 | 160 to 200 | 217 to 271 | | | |
| M20 | 320 to 380 | 434 to 515 | | | |
| M24 | 500 to 600 | 675 to 815 | | | |
| M30 | M30 920 to 1100 1250 to 15 | | | | |
| M36 1600 to 1950 2175 to 2600 | | | | | |

| Grade 10.9 Bolts, Nuts, and Studs | | | | | | |
|-----------------------------------|------------------------------|------------------|--|--|--|--|
| | (10.9) | | | | | |
| Size | Pound- Size Inches | | | | | |
| M4 | 36 to 48 | 4 to 5 | | | | |
| M5 | 84 to 96 | 9 to 11 | | | | |
| M6 | 132 to 156 | 15 to 18 | | | | |
| M8 | 324 to 384 | 37 to 43 | | | | |
| Size | Pound- Feet | Newton metres | | | | |
| M10 | 54 to 64 | 73 to 87 | | | | |
| M12 | 93 to 112 | 125 to 150 | | | | |
| M14 | 149 to 179 | 200 to 245 | | | | |
| M16 | 230 to 280 | 310 to 380 | | | | |
| M20 | 450 to 540 | 610 to 730 | | | | |
| M24 | 780 to 940 | 1050 to 1275 | | | | |
| M30 | M30 1470 to 1770 2000 to 240 | | | | | |
| M36 2580 to 3090 3500 to 4200 | | | | | | |

Metric Torque for Aluminum Components

| Bolt | Gı | rade 8.8 | Grade 10.9 | |
|----------|----|------------|------------|------------|
| Diameter | Nm | Pound Foot | Nm | Pound Foot |
| M3 | | | | 1 |
| M4 | | | 4 | 2.6 |
| M5 | | | 8 | 5.5 |
| M6 | 9 | 6 | 12 | 9 |
| M8 | 20 | 14 | 28 | 20 |
| M10 | 40 | 28 | 55 | 40 |
| M12 | 70 | 52 | 100 | 73 |

HYDRAULIC FITTINGS

| Tube OD | Thread | Pound- | Newton | | | | | |
|-----------------------|-------------------------|----------------|------------------|--|--|--|--|--|
| Hose ID | Size | Inches | metres | | | | | |
| | 37 Degree Flare Fitting | | | | | | | |
| 1/4 inch 6.4 mm | 7/16-20 | 72 to 144 | 8 to 16 | | | | | |
| 5/16 inch 7.9 mm | 1/2-20 | 96 to 192 | 11 to 22 | | | | | |
| 3/8 inch 9.5 mm | 9/16-18 | 120 to 300 | 14 to 34 | | | | | |
| 1/2 inch 12.7 mm | 3/4-16 | 180 to 504 | 20 to 57 | | | | | |
| 5/8 inch 15.9 mm | 7/8-14 | 300 to 696 | 34 to 79 | | | | | |
| Tube OD Hose ID | Thread Size | Pound- Foot | Newton metres | | | | | |
| 3/4 inch 19.0 mm | 1-1/16-12 | 77 to 82 | 104 to 111 | | | | | |
| 7/8 inch 22.2 mm | 1-3/16-12 | 90 to 100 | 122 to 136 | | | | | |
| 1.0 inch 25.4 mm | 1-5/16-12 | 110 to 120 | 149 to 163 | | | | | |
| 1-1/4 inch 31.8 mm | 1-5/8-12 | 140 to 150 | 190 to 204 | | | | | |
| 1-1/2 inch 38.1 mm | 1-7/8-12 | 225 to 240 | 305 to 325 | | | | | |

| Tube OD Hose ID | Thread Size | Pound- Inches | Newton metres | | | | | |
|-----------------------|------------------------------|------------------|------------------|--|--|--|--|--|
| St | Straight Threads with O-ring | | | | | | | |
| 1/4 inch 6.4 mm | 7/16-20 | 144 to 228 | 16 to 26 | | | | | |
| 5/16 inch 7.9 mm | 1/2-20 | 192 to 300 | 22 to 34 | | | | | |
| 3/8 inch 9.5 mm | 9/16-18 | 300 to 480 | 34 to 54 | | | | | |
| 1/2 inch 12.7 mm | 3/4-16 | 540 to 804 | 57 to 91 | | | | | |
| Tube OD Hose ID | Thread Size | Pound- Foot | Newton metres | | | | | |
| 5/8 inch 15.9 mm | 7/8-14 | 58 to 92 | 79 to 124 | | | | | |
| 3/4 inch 19.0 mm | 1-1/16-12 | 80 to 128 | 108 to 174 | | | | | |
| 7/8 inch 22.2 mm | 1-3/16-12 | 100 to 160 | 136 to 216 | | | | | |
| 1.0 inch 25.4 mm | 1-5/16-12 | 117 to 187 | 159 to 253 | | | | | |
| 1-1/4 inch 31.8 mm | 1-5/8-12 | 165 to 264 | 224 to 357 | | | | | |
| 1-1/2 inch 38.1 mm | 1-7/8-12 | 250 to 400 | 339 to 542 | | | | | |

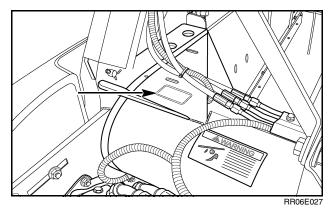
Steel Hydraulic Fittings

| Nom. SAE Dash Size | Tube OD | Thread Size | Pound- Inches | Newton metres | Thread Size | Pound- Inches | Newton metres |
|-----------------------------|-----------------------|----------------|------------------|------------------|----------------|------------------|------------------|
| | | | | | | ring Boss E | |
| | O-ri | ng Face Sea | ll End | | Fitt | ing or Lock | Nut |
| -4 | 1/4 inch 6.4 mm | 9/16-18 | 120 to 144 | 14 to 16 | 7/16-20 | 204 to 240 | 23 to 27 |
| -6 | 3/8 inch 9.5 mm | 11/16-16 | 216 to 240 | 24 to 27 | 9/16-18 | 300 to 360 | 34 to 41 |
| -8 | 1/2 inch 12.7 mm | 13/16-16 | 384 to 480 | 43 to 54 | 3/4-16 | 540 to 600 | 61 to 68 |
| | | | | | Thread Size | Pound- Foot | Newton metres |
| -10 | 5/8 inch 15.9 mm | 1-14 | 552 to 672 | 62 to 76 | 7/8-14 | 35 to 40 | 47 to 54 |
| Nom. SAE | | + | D | Notes | 1-1/16-12 | 60 to 70 | 81 to 95 |
| Dash Size | Tube OD | Thread Size | Pound- Feet | Newton metres | 1-3/16-12 | 70 to 80 | 95 to 109 |
| -12 | 3/4 inch 19.0 mm | 1-3/16-12 | 65 to 70 | 90 to 95 | 1-5/16-12 | 80 to 90 | 108 to 122 |
| -14 | 7/8 inch 22.2 mm | 1-3/16-12 | 65 to 70 | 90 to 95 | 1-5/8-12 | 95 to 115 | 129 to 156 |
| -16 | 1.0 inch 25.4 mm | 1-7/16-12 | 92 to 100 | 125 to 135 | 1-7/8-12 | 120 to 140 | 163 to 190 |
| -20 | 1-1/4 inch 31.8 mm | 1-11/16-12 | 125 to 140 | 170 to 190 | | | |
| -24 | 1-1/2 inch 38.1 mm | 2-12 | 150 to 165 | 200 to 225 | | | |

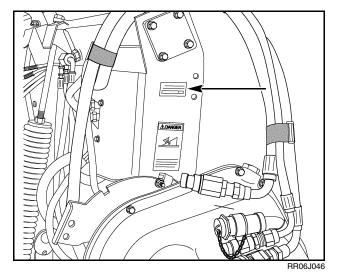
PRODUCT IDENTIFICATION NUMBERS

When ordering parts or when requesting information or assistance always give the following information:

- 1. Machine Name
- 2. Model Number
- 3. Product Identification Number (P.I.N.)



HEADER P.I.N. PLATE - LEFT SIDE GUSSET NEAR MAIN TUBE



COMBINE ADAPTER P.I.N. PLATE - ADAPTER FRAME ABOVE MAIN DRIVE GEARBOX

ENVIRONMENT

Before you service this machine and before you dispose of the old fluids and lubricants, always remember the environment. DO NOT put oil or fluids into the ground or into containers that leak.

Check with your local environmental or recycling center or your dealer for correct disposal information.

DISASSEMBLY, DECOMMISSIONING OR SCRAPPING THE MACHINE

When the machine is taken out of service, because it is damaged beyond repair or has reached the end of its useful life, disassembly, scrapping and/or recycling of components, tires, fluids, etc. must be performed by a qualified technician.

Compliance with local laws and regulations are required. Check with your local environmental or recycling center for correct disposal information.

Always remember the environment.





RR08K002

PLASTIC AND RESIN PARTS

Avoid using gasoline, kerosene, paint thinner, etc., when cleaning plastic or resin parts. Use ONLY water, mild soap and a soft cloth when you clean these parts.

Using gasoline, kerosene, thinners, etc., will cause discoloration, cracking or deformation of the part being cleaned.

SAFETY DECALS

Refer to your Header Operator's Manual for safety decals and locations.

IMPORTANT: Install new decals if the old decals are destroyed, lost, painted over or cannot be read. When parts are replaced that have decals make sure you install a new decal with each new part.

LUBRICATION AND MAINTENANCE CHART

| | FREQUENCY IN HOURS | | | | | |
|--|--------------------|--------|---------|--------|--------|--------|
| | N O. | | | | | |
| | 0. | | | | | |
| | O F | | L | | | |
| | Г | | U B | | | R |
| | Р | G | R | | С | E |
| | 0 | R E | C | C H | H A | P L |
| | N | Α | Α | Е | N | Α |
| SERVICE DOINTS | T | S E | T | C | G E | C E |
| SERVICE POINTS | S 1 | E | E 10 | K | E | E |
| Cutter Bar (Refer to Note 1) Hydraulic Hoses | 1 | | 10 | 10 | | |
| Sickle Sections, Guards and Hold-Downs | 1 | | | 10 | | |
| Tire Pressure | 2 | | | 10 | | |
| Sickle Head - Single Knife (Refer to Note 2) | 1 | 25 | | 10 | | |
| Sickle Head - Single Knife (Refer to Note 2) | 2 | 25 | | | | |
| Hydraulic Reservoir | 1 | 25 | | 25 | | |
| Reel Universal | 1 | 50 | | 25 | | |
| Double Knife Drive Bearing | 1* | 50 | | | | |
| Double Knife Drive Shaft (15 grease gun pumps minimum) | 1* | 50 | | | | |
| Idler Roller | 1 | 50 | | | | |
| Drive Shaft Slip Joint | 1 | 50 | | | | |
| Drive Universal | 2 | 50 | | | | |
| Drive Shaft Splines | 1 | 00 | 50 | | | |
| Drive Roller Bearing | 1 | 50 | | | | |
| Feed Draper Roller Bearing | 1 | | 50 | | | |
| Float Spring Tensioners | 2 | 100 | | | | |
| Reel Drive Chain | 1 | 100 | | | | |
| Auger Bearing | 1 | 100 | | | | |
| Auger Drive Chain | 1 | 100 | | | | |
| Main Drive Gearbox | 1 | | | 100 | 1500 | |
| Auger Drive Shaft | 1 | 100 | | | | |
| Vibration Damper Pivot | 1* | 100 | | | | |
| Drive Shaft Guard | 2 | 100 | | | | |
| Float Pivot | 2 | 100 | | | | |
| Hydraulic Connections and Couplers (Refer to Note 3) | 3 | | 100 | 10 | | |
| Wobble Box (Refer to Note 4) | 1 | | | 100 | 1000 | |
| Auger to Pan and Draper Clearance | 1 | | | 100 | | |

| | FREQUENCY IN HOURS | | | | | |
|---|-----------------------|-----------------------|-----------------------|---------|-------|-------|
| | N O. | | | | | |
| | O F | | L U B | | | R |
| | P O I N T | G R E A S | R I C A T | C H E C | CHANG | EPLAC |
| SERVICE POINTS | S | E | Ė | K | E | E |
| Wheel Pivots - Right Side | 2 | 250 | | | | |
| Wheel Pivots - Left Side | 1 | 250 | | | | |
| Frame/Wheel Pivot | 1* | 250 | | | | |
| Auger Pivot | 1* | 250 | | | | |
| Hydraulic Oil Filter | 1 | | | | 250 | |
| Wheel Axle - Right Side | 2 | 500 | | | | |
| Flex Linkage (Flex Header) | 1 | 500 | | | | |
| Transport/Stabilizer Wheel Hub Bearings (If equipped) | 2 | 500 | | | | |
| Reel Center Bearing | 1 | 500 | | | | |
| Reel Shaft - Right Bearing | 1 | 500 | | | | |
| Reel Shaft - Left Bearing | 1 | 500 | | | | |
| Wheel Bearings | 2* | 500 | | | | |
| Hydraulic Oil | 1 | | | | 1500 | |
| Float Adjusters | 2* | Α | | | | |

Use NLGI Number 2 Multi Purpose Lithium 251H EP Grease.

A = ANNUALLY

NOTE 1: Use SAE 15W40 No. 1 Engine Oil

NOTE 2: Refer to Sickle Head Lubrication in this Section of the Manual

NOTE 3: Use WD40® or equivalent

NOTE 4: Use SAE 85W-140 Gear 135H EP

OIL CAPACITIES

| Main Gearbox | |
|---------------------|------------------------------|
| Hydraulic Reservoir | |
| Wobble Box | 2.2 Liters (2.3 U.S. quarts) |

^{*} Per Side

GENERAL SAFETY INFORMATION

Understand that your safety and the safety of other persons is measured by how you service and operate this machine. Know the positions and operations of all controls before you try to operate. MAKE SURE YOU CHECK ALL CONTROLS IN A SAFE AREA BEFORE STARTING YOUR WORK.

Make sure you understand all the controls of the machine. Refer to Operator's Manual. All equipment has limits.

CNH America LLC is continuing to work for your safety: by making machines with better protection and by giving these rules for safe operation and servicing the machine.



DANGER: The Safety Alert Symbol and Safety messages that follow indicate extremely important information in this manual. When you see this symbol, carefully read and understand the messages that follow. Failure to read and understand these messages will cause death or serious injury. M171D



Safety Rules /



- Failure to comply to the following messages may result in death or serious injury.
- Always shut OFF engine, remove the key and engage feeder safety lock in position on lift cylinder before working under Header or feeder. Failure to engage feeder safety lock could cause death or serious injury.
- Never make adjustments when machine is running. Failure to comply could result in death or serious injury. M208C
- Never operate the machine with shields remove. Always install shields after servicing the machine. Failure to comply could result in death or serious injury. M423A
- ALWAYS make sure working area is clear of other persons before you start operating this machine. NEVER allow anybody in work area during machine operation or servicing.
- Avoid eye injury when using a drill, hammer, saw, or other tools that may cause chips to fly. Always wear safety glasses when working. Failure to comply could result in death or serious injury. M428B

- NEVER operate the machine with covers, panels or guards removed. Reinstall all covers, panels or quards after servicing or cleaning the machine. Failure to comply could result in death or serious injury. CM115B
- Do Not modify the machine. Unauthorized modifications may cause operational malfunction or safety hazard.
- ALWAYS make sure working area is clear of other persons, pets, tools, etc. before you start operating this machine. NEVER allow anybody in work area during machine operation.
- ALWAYS sound horn before starting Combine.
- Keep service area clean and dry. Wet or oily floors are slippery. Wet areas can be dangerous when working with electrical equipment. Be sure all electrical outlets and tools are properly grounded.
- ALWAYS disconnect the battery (both terminals) before welding on any part of the machine. wash your hands after components. Failure to comply could damage sensitive electrical components, death or serious injury. M866A

- Eliminate falls or serious injury in work areas. Keep work areas organized and clean. Wipe up oil or spills of any kind. Keep tools and parts off the floor. Failure to comply could result in death or serious injury.
- Avoid injury or machine damage. After installation or servicing, make sure all tools and any equipment used during installation or service are removed from the machine. Failure to comply could result in machine damage, death or serious injury.
 M430B
- Never exit the machine until all components and/ or attachments are down resting on the ground.
 Failure to comply could result in death or serious injury.
- A frequent cause of death or serious injury is persons falling off the machine and being run over. Keep cab door (if equipped) closed. Instructional seat (if equipped) is used only for instructing or service diagnosing only. DO NOT permit others to ride, especially children. Seat belt must be worn at all times. Failure to comply could cause death or serious injury.
- Hydraulic oil or diesel fuel leaking under pressure can penetrate the skin and cause infection or other injury. To Prevent Personal Relieve all pressure, Injury: disconnecting fluid lines or performing work on the hydraulic system. Before applying pressure, make sure all connections are tight and components are in good condition. Never use your hand to check for suspected leaks under pressure. Use a piece of cardboard or wood for this purpose. If injured by leaking fluid, see your doctor immediately. Failure to comply could result in death or serious injury. M149D
- Always make sure to stay clear of drive shaft until all movement has stopped and Combine engine has stopped and key is removed from key switch. Entanglement with rotating drive shaft will cause serious injury or death. Always wear proper fitting clothing when working around machine.
- Handle cutter bar very carefully. Always wear heavy gloves when working around the cutter bar or handling sharp knives. Keep other body parts away from cutter bar.
- ALWAYS turn OFF engine and remove the key before servicing the Header. Never under any conditions lubricate the Header while machine is running. Failure to comply could result in death or serious injury.



Hydraulic System Safety



- Failure to comply to the following messages will result in death or serious injury.
- Hydraulic oil leaking under pressure can penetrate the skin and cause infection or other injury. To prevent personal injury:
 - A. Relieve all pressure before disconnecting fluid lines.
 - B. Before applying pressure, make sure all connections are tight and components are in good condition.
 - C. Never use your hand to check for suspected leaks under pressure. Use a piece of cardboard or wood for this purpose.
 - D. If injured by leaking fluid, seek medical attention immediately.
- The hydraulic hoses and fittings on your machine meet engineering specifications for the particular function. When replacing damaged, blown or worn hoses or fittings, use only manufacture authorized service parts.
- Care in hydraulic hose installation is a must:
 - A. Make sure pressure is relieved before starting installation procedure.
 - B. DO NOT kink or twist a hose, failure may occur.
 - C. Properly route the hose.
 - D. Have a certified hydraulic technician install the hose.
 - E. Remove air from the hydraulic system after installing any hydraulic component.
- Periodically check hydraulic system for leaks or damage. check for:
 - A. Leaks at hose fitting or in hose.
 - B. Damaged hoses and/or fittings.
 - C. Kinked, crushed, flattened, hard blistered, heat cracked, charred, twisted, soft or loose covered hoses.
 - D. Corroded or damaged fittings.
 - E. Leaking ports.
 - F. Excessive dirt and debris around hoses and/or fittings.
 - G. Damaged or missing hose retaining clamps, guards, shields, etc.
- DO NOT stand on or use a hose as a step. DO NOT pull or apply external forces to the hose. The hose may fail
 and cause injury.
- Keep all persons away from the working area. Mechanisms controlled by fluid power can become hazardous if a hose fails. Lifted mechanisms can fall to the ground, machine steering may fail, etc.
- Stay clear of a pressurized hose assembly that has blown apart. Hose fittings can be thrown off at high speed and a loose hose can whip around with great force.
- Hydraulic fluid can reach high temperatures. Allow fluid to cool before servicing the system.
- Escaping fluid under pressure may form a mist or fine spray which can flash or explode upon contact with an ignition source.
- Vibration can reduce hose service life. Make sure all retaining clamps and/or devices are secured.
- Environmental conditions can cause hose and fittings to deteriorate. Inspect hydraulic hoses periodically.
 Replace worn or damaged hoses and fittings.

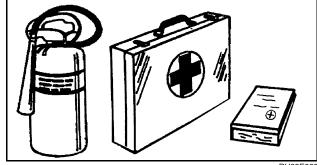
Service Area, Fire Extinguisher, First Aid Kit

Keep the area used for servicing the machine clean and dry. Wet or oily floors are slippery. Wet spots can be dangerous when working with electrical equipment. Be sure all electrical outlets and tools are properly grounded.

It is recommended that you have a Fire Extinguisher and a First Aid Kit in your maintenance area.



RH01N064



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Personal Safety /





Throughout this manual and on the machine's safety decals, you will find precautionary statements: DANGER, WARNING or CAUTION followed by specific instructions or ISO two panel safety pictorial symbols. These precautions are intended for your personal safety.

Failure to follow the DANGER, WARNING or CAUTION instructions may result in death or serious bodily injury.

DANGER, WARNING or CAUTION are defined as follows:

- DANGER: Indicates an immediate hazardous situation that, if not avoided, will result in death or serious injury. The color associated with Danger is RED.
- WARNING: Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury. The color associated with Warning is ORANGE.
- CAUTION: Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.
- ISO two panel **pictorial symbol decals** are defined as follows:
- The first panel indicates the nature of the hazard.
- The second panel indicates the appropriate avoidance of the hazard.
- Background color is YELLOW.
- Prohibition symbols such as

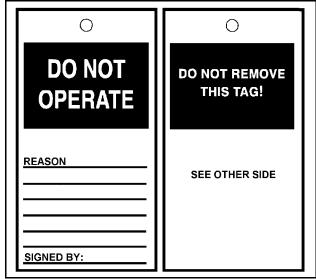




if used, are RED.

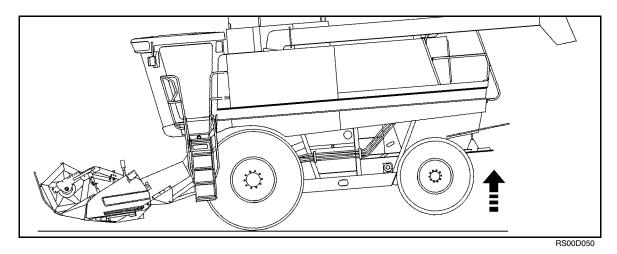
Do Not Operate Tag

Before you start servicing the machine, attach a "Do Not Operate" warning tag to the machine in an area that will be visible.



RH99E029

Combine Ballast



Make sure your Combine has proper ballasting. Large and/or heavy Headers may alter the center of gravity of your machine. This will affect your operating, steering and braking performance.

Refer to your Combine Operator's Manual for the correct ballast required for your application.

ATTENTION: AXIAL-FLOW® 2300 / 2500 Series Combines: AXIAL-FLOW® 2388 / 2588 - 12 Row Ready Combine is the only 2300 / 2500 Series Combine authorized for use with the 35 foot or larger Header.

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