340
Chisel Plow

Service Manual

87053715 1/05

MidWestTech | New Holland Flexicoil 340 Chisel Plow Service Manual | Publication 87053715

Order the manual at mid-west-tech.com >

TABLE OF CONTENTS

Pages listed are a table of contents for that section

Section - Title ..... Page

1 - SAFETY 1-1
- Safety
- Decal Locations
- Reflector Decals, Slow Moving Vehicle Sign and Transport Lighting
- Transport Lighting Wiring Schematic

2 - ADJUSTMENTS 2-1
- General Service Information
- Initial Leveling
- Initial Leveling Procedure
- Final Leveling
- Final Leveling Procedure
- Trip Adjustment
- Sweep Pitch Adjustment

3 - MECHANICAL SERVICE 3-1
- Machine Specifications - Imperial Units
- Machine Specifications - Metric Units
- Troubleshooting Tables
- Grease Locations
- Daily Maintenance (Every 10 Hours)
- Weekly Maintenance (Every 50 Hours)
- Semi-Annual Maintenance (Every 200 Hours)
- Yearly Maintenance
- Welding Procedures
- Frame Components
- Wheel Bolt Torque
- Tire Pressures and Hub and Spindle Details
- Hub / Spindles / Wheels / Walking Beams
- Removal and Replacement of Bushings on Bell Crank Assembly

4 - HYDRAULICS 4-1
- Hydraulics
- Replace Seals in Cylinders
- Hydraulic Cylinder Components
- Hydraulic Schematics
- Ram Mount Depth Stop Connection

5 - ELECTRICAL 5-1
- Connector Service Kit

6 - TRIPS AND OPENERS 6-1
- Trip Compressor Tool Kit
- Tension Link Kit TP-133K - 550lb Trip
- Adjustment of Trip Assemblies
- Anti-Skewing Trip Shim Installation
- Trip Shim Kit for 650lb Trip

7 - OPTIONS 7-1
- Harrows
- Mounted Harrow Assembly
- Heavy Harrows
- High Draft Assembly
- Anhydrous Hitch
- Front Hitch Weight Assembly

INDEX

MidWestTech | New Holland Flexicoil 340 Chisel Plow Service Manual | Publication 870537... Order the manual at mid-west-tech.com >

SECTION 1
SAFETY

CONTENTS OF THIS SECTION

	Page
SAFETY	1-3
General Safety Practices	1-4
Servicing Safety Precautions	1-4
Safety During Operation	1-5
Air and Air Hoses	1-8
Hydraulics and Hydraulic Leaks	1-8
Shields	1-9
Electrical	1-9
Tires	1-9
Safety During Transport	1-10
Safety Decals	1-10
DECAL LOCATIONS	1-11
REFLECTOR DECALS, SLOW MOVING VEHICLE SIGN AND TRANSPORT LIGHTING	1-14

MidWestTech | New Holland Flexicoil 340 Chisel Plow Service Manual | Publication 870537... Order the manual at mid-west-tech.com >

MACHINE SPECIFICATIONS - METRIC UNITS

IMPLEMENT DIMENSIONS

Working Width	Shank Spacing	Frame Width			Number of Shanks	Transport Width	Transport Height	Overall Length
		Center	Wing	C - Frame				
7.31 m	305 mm	4.27 m	1.83 m	-	24	5.33 m	3.17 m	7.21 m
7.31 m	229 mm	4.27 m	1.83 m	-	32	5.33 m	3.23 m	7.21 m
7.77 m	229 mm	4.27 m	1.83 m	-	34	5.33 m	3.43 m	7.21 m
7.92 m	305 mm	4.27 m	1.83 m	-	26	5.33 m	3.45 m	7.21 m
8.23 m	229 mm	4.27 m	1.83 m	-	36	5.33 m	3.63 m	7.21 m
8.53 m	305 mm	4.27 m	1.83 m	-	28	5.33 m	3.73 m	7.21 m
8.69 m	229 mm	4.27 m	1.83 m	-	38	5.33 m	3.83 m	7.21 m
9.14 m	305 mm*	4.27 m	2.74 m	-	30	5.33 m	4.01 m	7.21 m
9.14 m	229 mm	4.27 m	2.74 m	-	40	5.33 m	4.04 m	7.21 m
9.60 m	229 mm	4.27 m	2.74 m	-	42	5.33 m	4.24 m	7.21 m
9.75 m	305 mm	4.27 m	2.74 m	-	32	5.33 m	4.29 m	7.21 m
10.06 m	229 mm	4.27 m	2.74 m	-	44	5.33 m	4.45 m	7.21 m
10.36 m	305 mm	4.27 m	2.74 m	-	34	5.33 m	4.57 m	7.21 m
10.52 m	229 mm	4.27 m	2.74 m	-	46	5.33 m	4.65 m	7.21 m
10.97 m	305 mm	4.27 m	2.74 m	0.91 m	36	5.33 m	4.85 m	7.21 m
10.97 m	229 mm	4.27 m	2.74 m	0.91 m	48	5.33 m	4.85 m	7.21 m
11.43 m	229 mm	4.27 m	2.74 m	0.91 m	50	5.33 m	4.88 m	7.21 m
11.58 m	305 mm	4.27 m	2.74 m	0.91 m	38	5.33 m	5.13 m	7.21 m
11.89 m	229 mm	4.27 m	2.74 m	0.91 m	52	5.33 m	5.26 m	7.21 m
12.19 m	305 mm	4.27 m	2.74 m	0.91 m	40	5.33 m	5.41 m	7.21 m
12.34 m	229 mm	4.27 m	2.74 m	0.91 m	54	5.33 m	5.46 m	7.21 m

NOTE: Specifications subject to change without notice.

MidWestTech | New Holland Flexicoil 340 Chisel Plow Service Manual | Publication 870537... Order the manual at mid-west-tech.com >

7. Remove the clevis cap (1).



Remove Clevis End Cap 202042M1

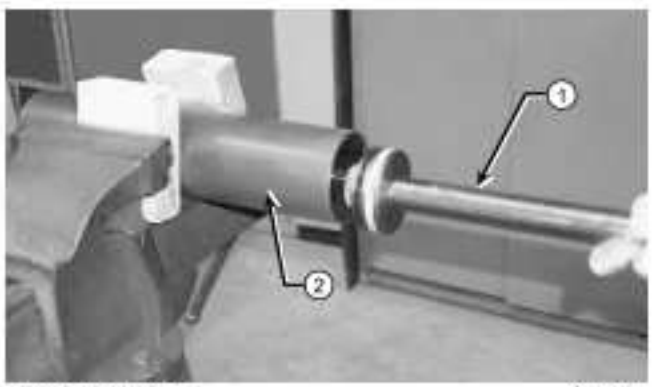
8. Remove the rod cap (1) by sliding it off of the shaft.


Remove Rod Cap 202043M1

9. Remove the shaft (1) and check the piston for any damage.

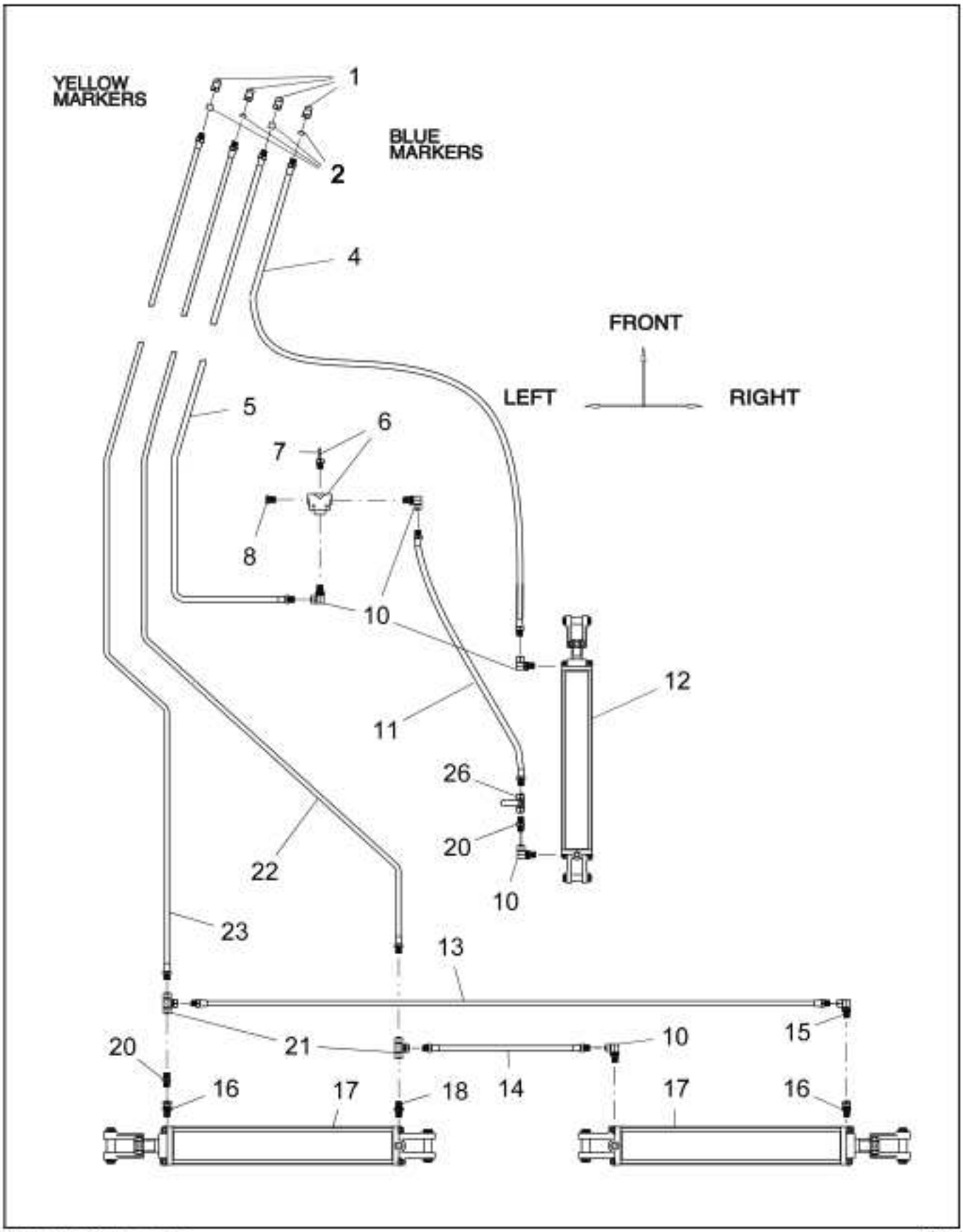
10. Use a light to check the cylinder barrel (2) for scoring, pits, scratches, or dents. If the deformities cannot be fixed, replace the cylinder.

NOTE: Avoid hitting the rods against edges of the work bench while handling the cylinder in an extended position.



Remove Shaft 202044M1

MidWestTech | New Holland Flexicoil 340 Chisel Plow Service Manual | Publication 870537... Order the manual at mid-west-tech.com >



Hydraulic Schematics

MidWestTech | New Holland Flexicoil 340 Chisel Plow Service Manual | Publication 870537... Order the manual at mid-west-tech.com >

REASSEMBLY OF CYLINDER

Reassemble the end cap onto the shaft:

11. The wiper seal on the rod cap makes it difficult to slide the rod cap back onto the shaft the way it was removed. To reassemble the rod cap, first remove the nut from the piston shaft.

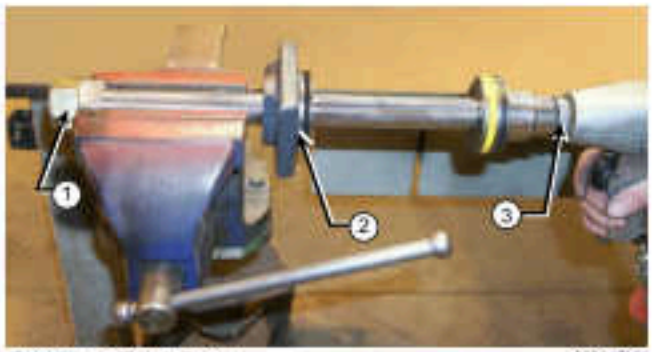
- Thread two locking nuts (1 and 2) on the threaded clevis end of the piston shaft.



Shaft in Vise 202046M1

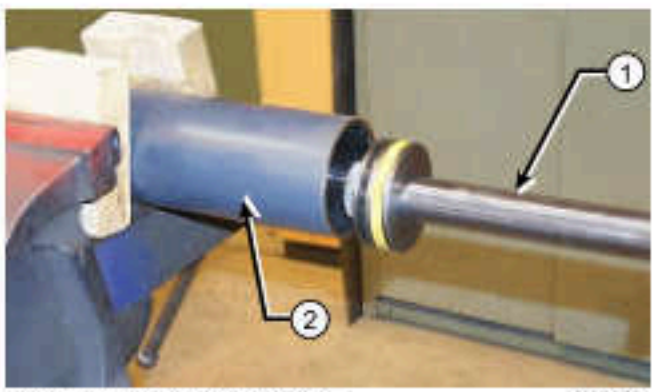
- Place the nut (1) into the vise and use an air tool and socket (3) to loosen the nut on the piston end of the shaft
- Place the nut (1) into the vise and use an air tool and socket (3) to loosen the nut on the piston end of the shaft.

12. Replace the cap (2) onto the shaft. Move the shaft so the opposite locking nut (1) is in the vise. Apply Loctite to the piston nut and tighten using an air tool and socket (3).



Replace Rod Cap 202047M1

13. Replace the piston (1) into the cylinder barrel (2). Piston inserted into the cylinder barrel (below).



Replace Piston in Cylinder 202044M1

14. Inserting piston rod cap assembly into the cylinder.


Replace End Cap 202045M1

MidWestTech | New Holland Flexicoil 340 Chisel Plow Service Manual | Publication 870537... Order the manual at mid-west-tech.com >

REMOVAL AND REPLACEMENT OF BUSHINGS ON BELL CRANK ASSEMBLY

The bell crank is used in combination with the depth control system to change the frame height. Periodically the steel and Garmax bushings have to be checked and replaced if necessary.

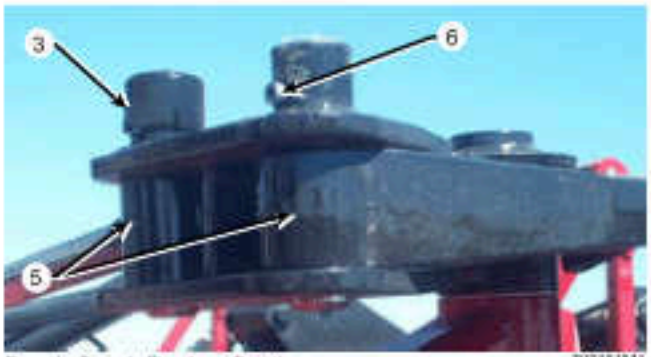
NOTE: When replacing bushings on the wings and center section, take each linkage section apart individually.

NOTE: When disassembling depth control linkage set cylinder so there is NO TENSION in depth control linkage.

1. Remove the top link (1) from the bell crank linkage.
2. Replace the weeble bushing (2) where the top link attaches to the bell crank.
3. Remove plastic caps (3) and silicone (4) from the depth crank rocker (5). Remove top roll pins and pins (6). Drive out bushings and replace. Refer to the assembly details page (Depth Control Assembly), for assembly information.



Replacing Bushings 2023178M1



Depth Crank Rocker Casting 2023181M1

4. Remove the bell crank cast parts (7) and replace seals and bushing (8) in cast bell crank components.

NOTE: Ensure the bell crank links are in the correct order. This is especially important on the center section.



Replacing Seals and Bushing 2023179M1

MidWestTech | New Holland Flexicoil 340 Chisel Plow Service Manual | Publication 870537... Order the manual at mid-west-tech.com >