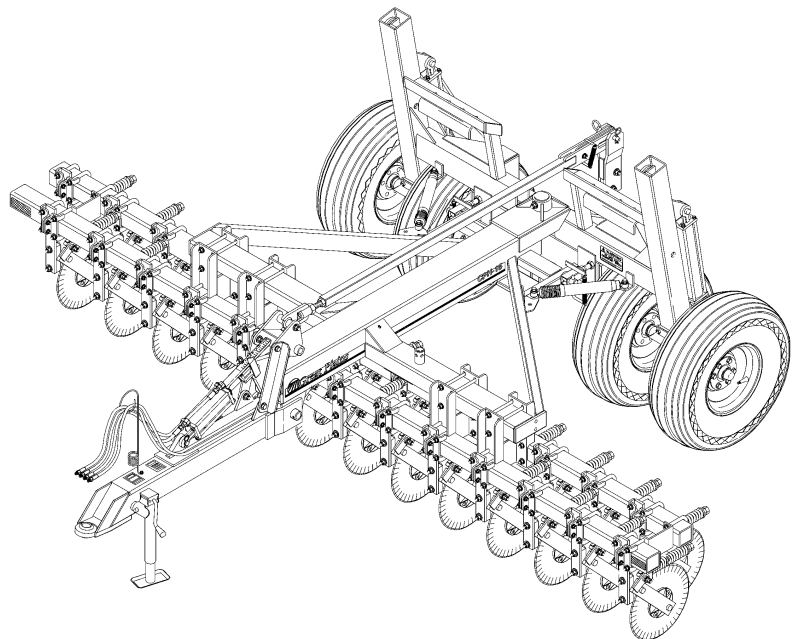

Parts Manual

CPH-12, CPH-15, & CPH-20
Center Pivot Hitch
1994+



Read the Operator's manual entirely. When you see this symbol, the subsequent instructions and warnings are serious - follow without exception. Your life and the lives of others depend on it!



12074

Cover illustration may show optional equipment not supplied with standard unit.



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General Information

Using This Manual

This manual is divided into sections. The first section contains General Information, a Table of Contents, an Alphabetical Page Index, and a Part Number Index. The remaining sections divide the machine into segments (i.e. Frames, Drives, Hydraulics, etc.) which illustrate and list all parts.

The Great Plains parts in this manual are specially designed for this machine and should be replaced with Great Plains parts only.

The information in this manual is current at printing. Some parts may change to assure top performance.

Right-hand and left-hand as used in this manual are determined by facing the direction the machine will travel while in use.

Below is an example of two facing pages from a parts manual. Familiarize yourself with the contents of these pages.

Manual Replacement Information

Replacement manuals are available. Refer to your dealer or the Great Plains Publications Catalog for additional information.

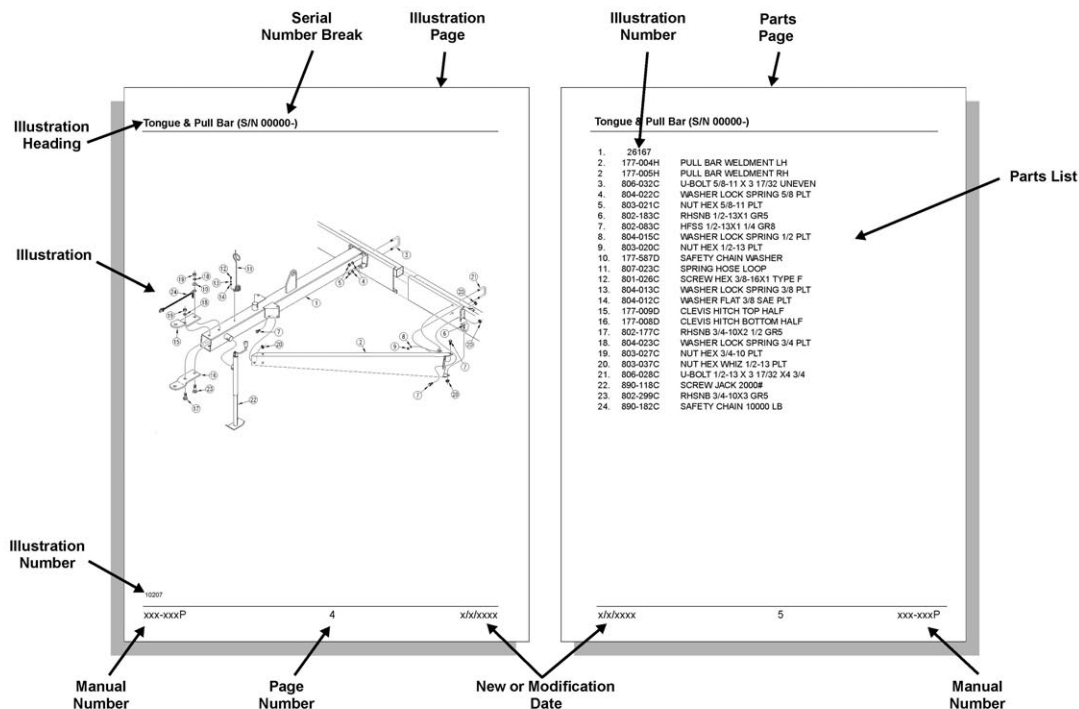
Manual Revisions

When this manual is revised, the modification date is printed on the front cover and on the revised page(s).

Touch-up Paint

Repaint parts where paint is worn or scratched to prevent rust. Aerosol touch-up paint is available. To order use Great Plains parts numbers below:

GP Green	821-001C
GP Black	821-002C
GP Beige	821-003C
GP Buckskin	821-004C



Hardware Legend

AR	As Required
BLADE	Blade Bolt
C	Cap Screw
CP	Cotter Pin
CPHSSS	Cup Point Hex Socket Set Screw
CPSHSS	Cup Point Square Head Set Screw
CPSQHSS	Cup Point Square Head Set Screw
CRFCHMS	Cross Recess Flat Countersunk Head Mach. Screw
CRPHMS	Cross Recess Pan Head Machine Screw
CRPHTFS	Cross Recess Pan Head Thread Forming
CRRHMS	Cross Recess Round Head Machine Screw
CRTHMS	Cross Recess Truss Head Machine Screw
CSNB	Countersunk Square Neck Bolt
FHMS	Flat Head Machine Screw
FTC	Full Thread Cap Screw
H	Hex Nut
HCLN	Hex Center Lock Nut
HFLCS	Hex Flange Lock Cap Screw
HFS	Hex Flange Screw
HFSLN	Hex Flange Serrated Lock Nut
HFSS	Hex Flange Serrated Screw
HHCS	Hex Head Cap Screw or Metric Bolt
HSBHCS	Hex Socket Button Head Cap Screw
HSFCHCS	Hex Socket Flat Countersunk Head Cap Screw
HSHCS	Hex Socket Head Cap Screw
HSSS	Hex Socket Head Screw
HTLN	Hex Top Lock Nut
HWHCS	Hex Washer Head Cap Screw

HWHMS	Hex Washer Head Machine Screw
HXBHCS	Hex Socket Button Head Cap Screw
J	Hex Jam Nut
JIC	37 Degree Tapered Thread
L	Helical Spring Lock Washer
LUG	Lug Bolt
NFC	National Fine Cap Screw
NPSM	National Pipe Straight Mechanical
NPTF	National Pipe Taper Fuel
P	Wide Plain Washer
PHMS	Pan Head Machine Screw
PLOW	Plow Bolt
RHMS	Round Head Machine Screw
RHSNB	Round Head Square Neck Bolt
SCREW LEVELING	Leveling Screw
SCREW THUMB	Thumb Screw
SCREW WELD	Weld Screw
SFCHMS	Slotted Flat Countersunk Head Machine Screw
SFHMS	Slotted Fillister Head Machine Screw
SP	Special
SP SCREW	Special Screw
SQHSS	Square Head Set Screw
SRHMS	Slotted Round Head Machine Screw
SSS	Socket Set Screw
STCS	Self Tapping Cap Screw
STHMS	Slotted Truss Head Machine Screw
WHEEL	Wheel Studs and Hub Long Bolts
WING	Wing Bolt

Replacement Hardware

The **Hardware Legend** above lists hardware abbreviations used in the parts lists. All bolts and nuts are grade 5 unless otherwise noted. The use of improper grades of hardware can result in personal injury, damage to equipment, or loss of property.

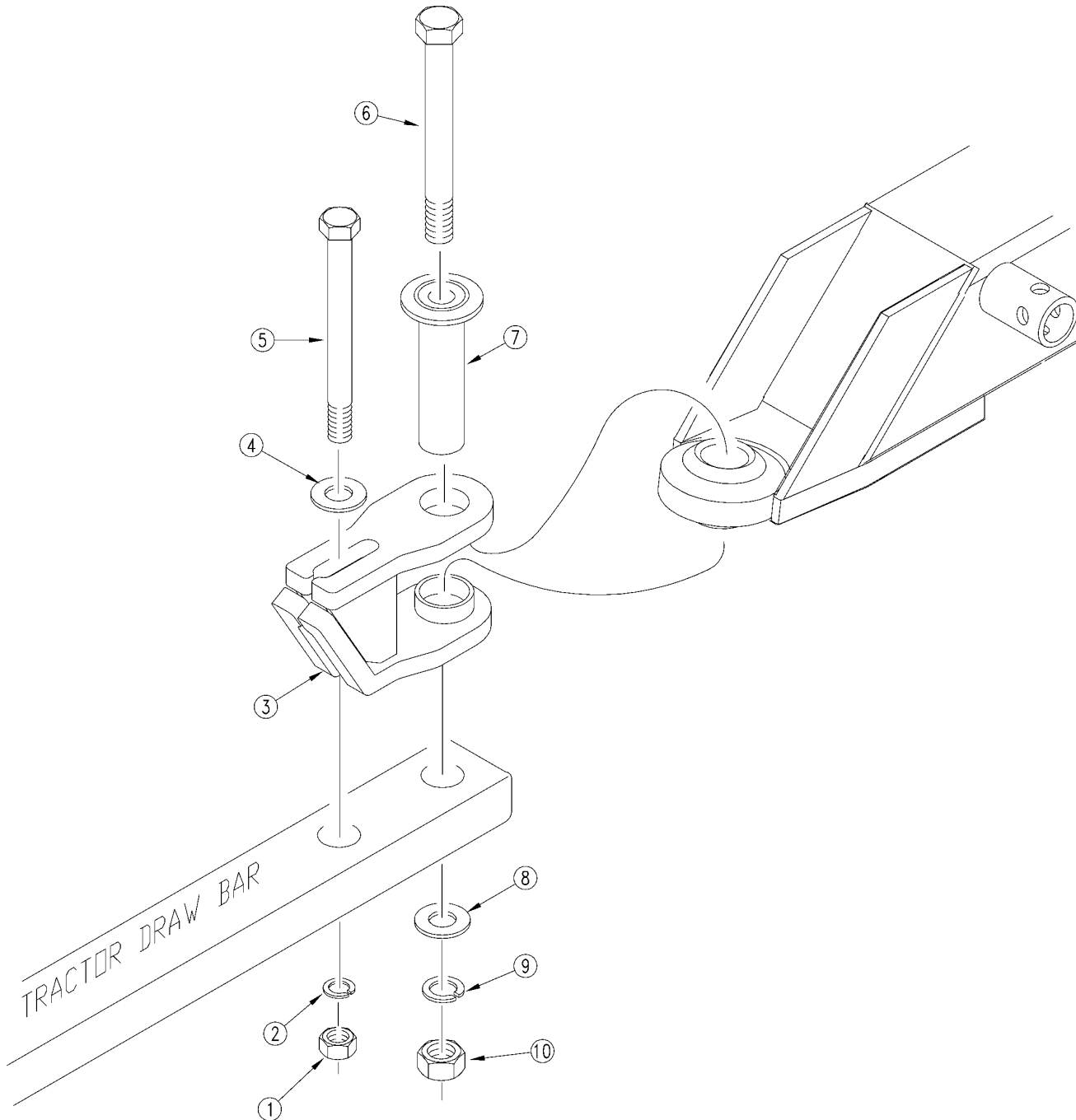
Serial Numbers

Always use the serial and model number when ordering parts. Refer to the operator's manual for serial number plate location.

(S/N 20001+ or S/N 20001 and above)	Includes serial numbers 20001 and above (to the latest number)
(S/N 10001+→20000)	Includes serial numbers between 10000 and 20001
(S/N 10000- or S/N 10000 and below)	Includes serial numbers 10000 and below (to the earliest number)

Hitch Assembly

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)



11616

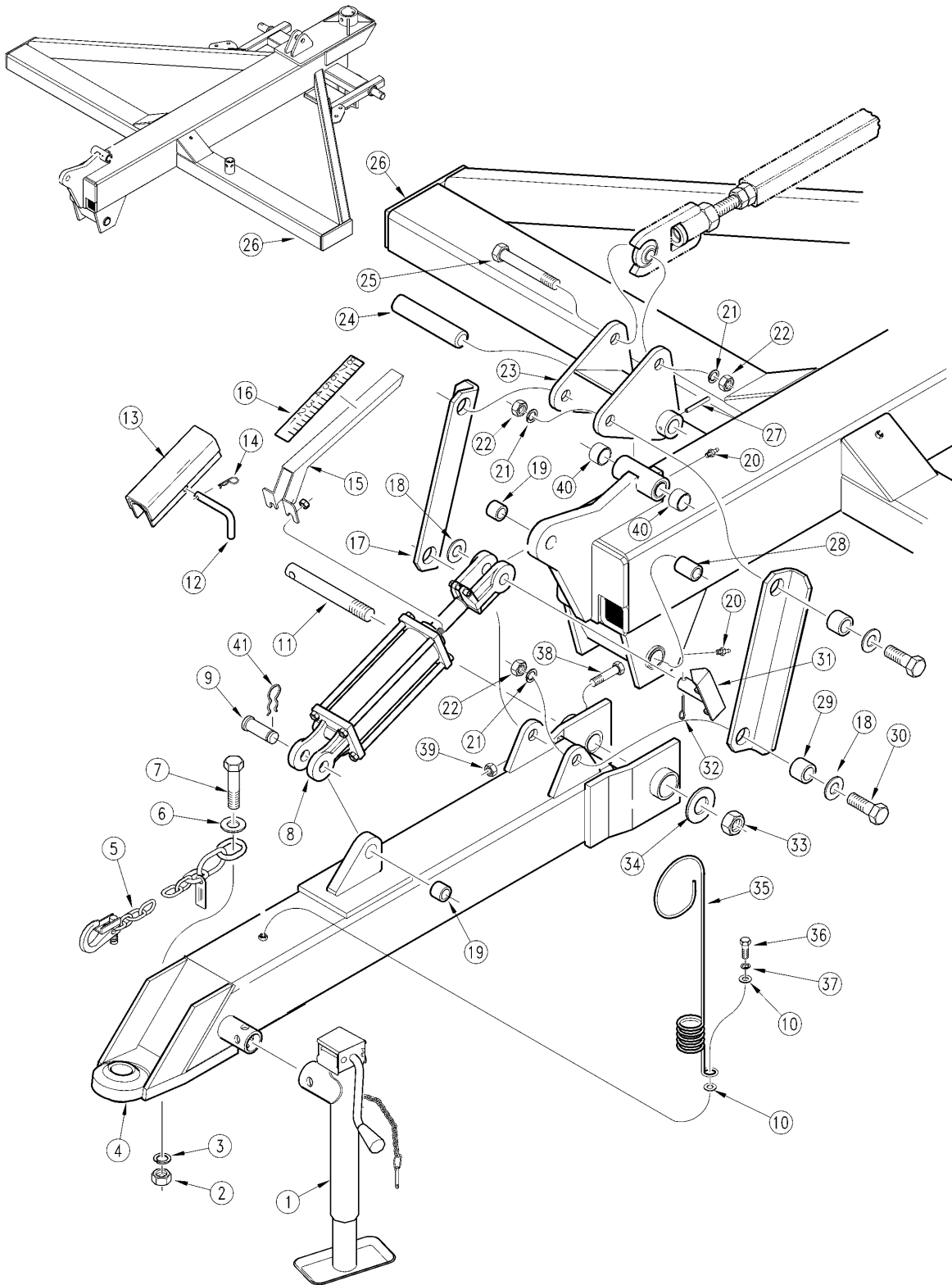
Hitch Assembly

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)

Ref	Part No.	Part Description	Comments	Revision
	dwg11616	Image No.		
1.	803-027C	NUT HEX 3/4-10 PLT		
2.	804-023C	WASHER LOCK SPRING 3/4 PLT		
3.	148-150H	FRONT HITCH WELDMENT		
4.	804-024C	WASHER FLAT 3/4 USS PLT		
5.	802-164C	HHCS 3/4-10X9 GR5		
6.	802-429C	HHCS 1-8X10 GR5 PLT		
7.	148-163H	FRONT HITCH INNER TUBE WLDMT		
8.	148-297D	RPBY 500-064D		
9.	804-027C	WASHER LOCK SPRING 1 PLT		
10.	803-031C	NUT HEX 1-8 PLT		

Tongue

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)



14015

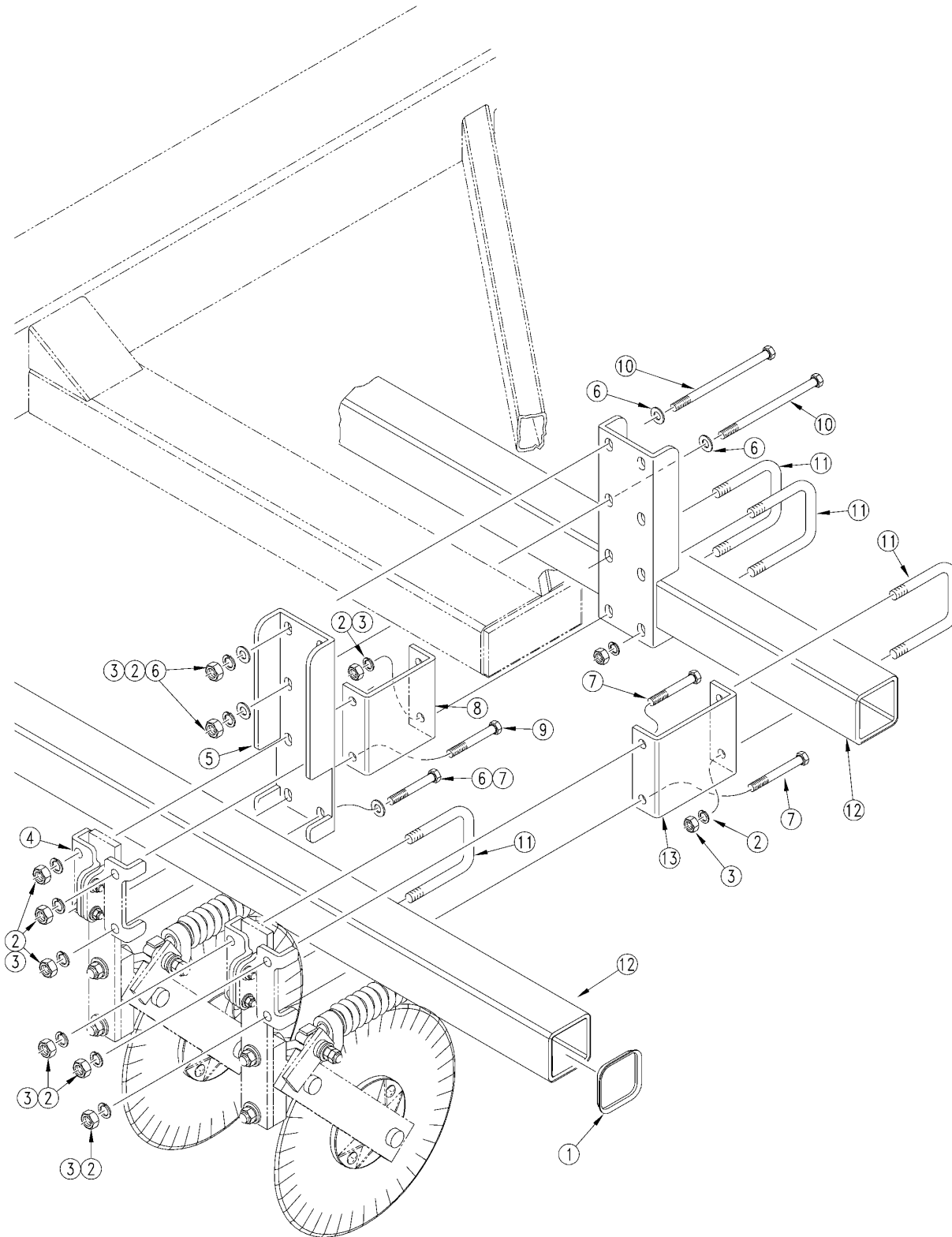
Tongue

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)

Ref	Part No.	Part Description	Comments	Revision
	dwg14015	Image No.		
1.	890-246C	SCREW JACK 5000# 15-30 SD-WND		
2.	803-034C	NUT HEX 1 1/4-7 PLT		
3.	804-030C	WASHER LOCK 1 1/4 SPRING PLT		
4.	148-256H	FRONT TONGUE WELDMENT		
5.	890-183C	SAFETY CHAIN 20000 LB		
6.	194-070D	SAFETY CHAIN WASHER		
7.	802-298C	HHCS 1 1/4-7X4 GR5		
8.	810-195C	CYL 3X8X1.25 ROD (TIE) NO PINS	Refer to "Tongue Cylinder 810-195C" for breakdown.	
9.	805-004C	PIN CLEVIS 1 X 2 3/4 USABLE LG		
10.	804-017C	WASHER FLAT 1/2 USS PLT		
11.	148-424D	TONGUE REAR CROSS PIN		
12.	805-001C	PIN 3/8 X 3 USABLE LW/PIN	Formerly 805-152C	
13.	161-036H	CYLINDER LOCK CHANNEL		
14.	805-010C	PIN HAIR COTTER .094		
15.	148-296D	DEPTH INDICATOR PLATE		
16.	818-181C	DECAL STROKE GAUGE		
17.	148-224D	TONGUE LINK		
18.	804-029C	WASHER FLAT 1 SAE		
19.	890-005C	BUSHING CYL 1 1/4 X 1 X 1		
20.	800-001C	GREASE ZERK STRAIGHT 1/4-28		
21.	804-027C	WASHER LOCK SPRING 1 PLT		
22.	803-031C	NUT HEX 1-8 PLT		
23.	148-082H	LEVEL LINK PIVOT LEVER		
24.	148-226D	LINK PIVOT CROSS PIN		
25.	802-075C	HHCS 1-8X7 GR5		
26.	148-146H	CENTER PIVOT HITCH TONGUE		
27.	805-255C	PIN ROLL 3/8 X 2 1/2 PLT		
28.	890-285C	BUSHING 1 3/4X1 1/2X3 1/2LONG		
29.	148-225D	CLEVIS PIVOT TUBE		
30.	802-096C	HHCS 1-8X2 1/2 GR5		
31.	148-159H	STROKE GAUGE POINTER	For 2 1/2" clevis	2nd rev.
31.	148-387H	STROKE GAUGE POINTER 3000PSI	For 2" clevis	1st rev.
32.	805-021C	PIN COTTER 1/4 X 2 PLT		
33.	803-038C	NUT HEX 1-8 NYLON INSERT PLT		
34.	500-064D	WASHER - SAFETY CHAIN SA	Formerly 148-297D	
35.	807-073C	SPRING HOSE LOOP HEAVY		
36.	802-258C	HHCS 1/2-13X1 GR5		
37.	804-015C	WASHER LOCK SPRING 1/2 PLT		
38.	802-281C	HHCS 5/8-11X2 3/4 GR5		
39.	803-024C	NUT LOCK 5/8-11 PLT		
40.	890-011C	BUSHING SPINDLE 1 1/2X1 1/4X1		
41.	805-032C	PIN HAIR COTTER .148 WIRE		

Tool Bar

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)



11981

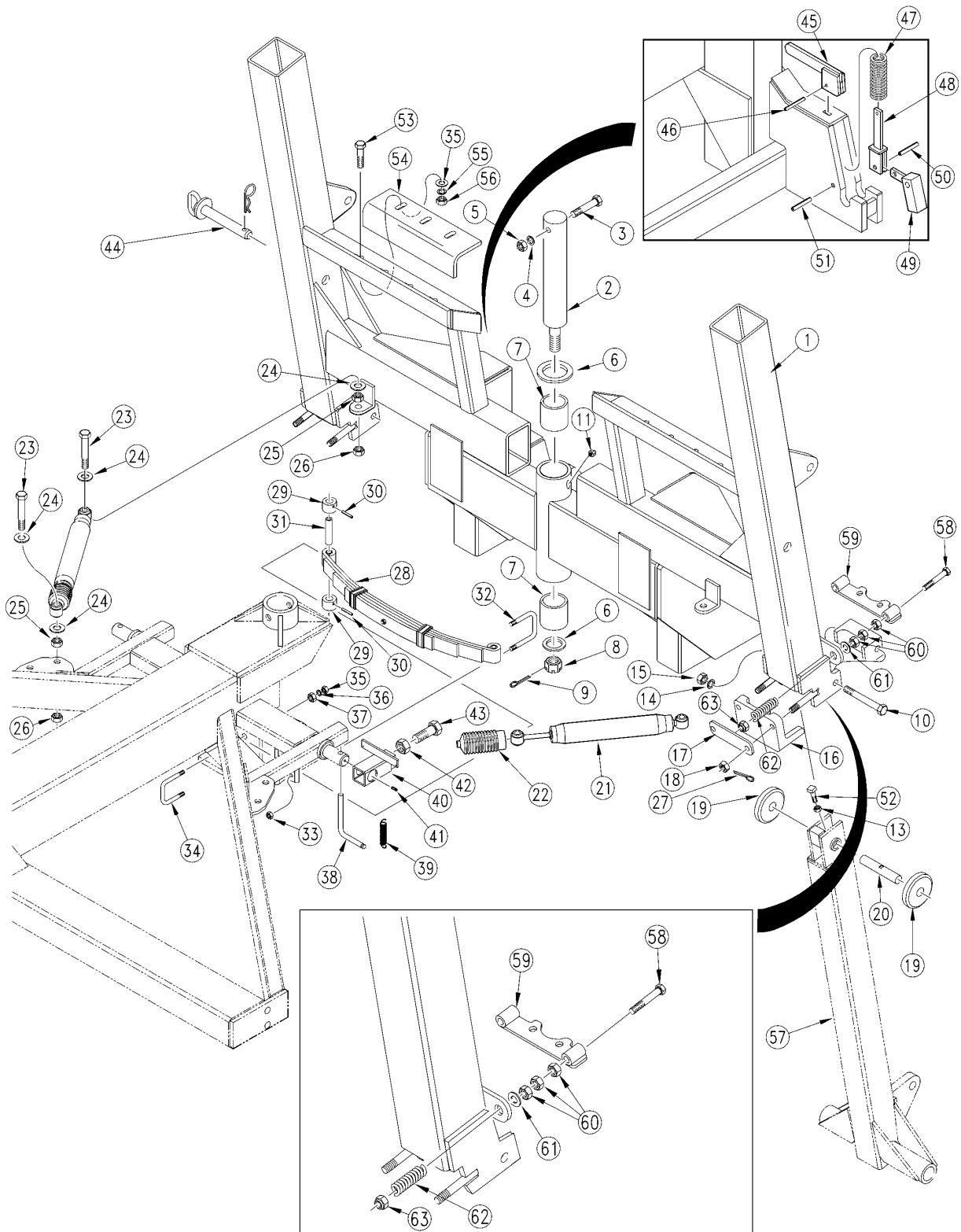
Tool Bar

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)

Ref	Part No.	Part Description	Comments	Revision
	dwg11981	Image No.		
1.	817-155C	4 X 4 1/4 END CAP		
1.	817-154C	4 X 4 X 3/16 END CAP		
2.	804-022C	WASHER LOCK SPRING 5/8 PLT		
3.	803-021C	NUT HEX 5/8-11 PLT		
4.			Coulter Assembly refer to "Coulter (S/N 9791Z-)"	
5.	149-072D	COULTER BAR CLAMP		
6.	804-019C	WASHER FLAT 5/8 USS PLT		
7.	802-335C	HHCS 5/8-11X6 1/2 GR5		
8.	149-073D	COULTER BAR CHANNEL BRACE		
9.	802-262C	HHCS 5/8-11X7 GR5		
10.	802-208C	HHCS 5/8-11X8 GR5		
11.	806-105C	U-BOLT 5/8-11 4 1/32 X 6		
12.	149-069D	12' COULTER TOOL BAR TUBE		
12.	149-070D	15' COULTER TOOL BAR TUBE		
12.	149-071D	20' COULTER TOOL BAR TUBE		
13.	149-074D	COULTER TOOL BAR TIE STRAP		

Main Frame

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)



11720

Main Frame

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)

Ref	Part No.	Part Description	Comments	Revision
	dwg11720	Image No.		
1.	148-141H	PULL HITCH AXLE FRAME		
2.	201-012D	PIVOT SHAFT		
3.	802-178C	HHCS 7/8-9X5 1/2 GR5		
4.	804-037C	WASHER LOCK SPRING 7/8 PLT		
5.	803-049C	NUT HEX 7/8-9 PLT		
6.	148-136D	REPLACED BY 804-102C		
7.	822-056C	BRONZE PIVOT BEARING 3.25 I.D.		
8.	803-079C	NUT HEX SLOTTED 1 1/4 - 7		
9.	805-085C	PIN COTTER 5/16 X 2 1/2		
10.	802-095C	HHCS 3/4-10X7 GR5		
11.	800-001C	GREASE ZERK STRAIGHT 1/4-28		
12.	817-398C	15FT CPH SLIDE BLOCK		
12.	817-397C	20 FT CPH SLIDE BLOCK		
13.	803-012C	NUT HEX JAM 3/8-16 PLT		
14.	804-023C	WASHER LOCK SPRING 3/4 PLT		
15.	803-027C	NUT HEX 3/4-10 PLT		
16.	817-438C	FRONT SLIDE BLOCK		
17.	148-254D	FRONT SLIDE BLOCK BACK PLATE		
18.	803-056C	NUT HEX SLOTTED 5/8-11 PLT GR5		
19.	155-164D	UPPER ROLLER MACHINED		
20.	155-054D	UPPER ROLLER SHAFT		
21.	810-026C	CYLINDER STABILIZER		
22.	816-039C	STABILIZER CYL. BOOT		
23.	802-059C	HHCS 5/8-11X3 GR5		
24.	804-021C	WASHER FLAT 5/8 SAE PLT		
25.	803-023C	NUT HEX JAM 5/8-11 PLT		
26.	803-024C	NUT LOCK 5/8-11 PLT		
27.	805-016C	PIN COTTER 3/16 X 1 1/4 PLT		
28.	807-012C	SPRING LEAF 4 LEAVES		
28.	807-009C	SPRING LEAF		
29.	148-023D	ROLLER STOP		
30.	805-041C	PIN ROLL 1/4X1 3/4		
31.	148-022D	ROLLER STOP PIN		
32.	806-014C	U-BOLT 3/8-16 X 1 7/8 X 8 GR 5		
33.	803-013C	NUT LOCK 3/8-16 PLT		
34.	806-013C	U-BOLT 1/2-13 X 1 13/16 X3 3/4		
35.	803-021C	NUT HEX 5/8-11 PLT		
36.	804-015C	WASHER LOCK SPRING 1/2 PLT		
37.	803-020C	NUT HEX 1/2-13 PLT		
38.	148-122D	FRAME SPRING ROD		
39.	807-026C	PIVOT STOP SPRING		
40.	148-044H	PIVOT LOCK		
41.	801-023C	SCREW SET SH 3/8-16X3/8 TYPE C		
42.	803-030C	NUT HEX JAM 1-8 PLT		
43.	802-181C	HHCS 1-8X3 GR5 FTHD		
44.	805-033C	PIN HITCH 1 X 6 W/HAIRPIN		
45.	124-016H	LOCK HANDLE WELDMENT		
46.	805-044C	PIN ROLL 1/4 X 1 PLATED		
47.	807-007C	SPRING LEVER		
48.	124-017H	SPRING LEVER WELDMENT		
49.	124-018H	PIN LOCK WELDMENT		
50.	124-105D	PIN LOCK PIVOT PIN		
51.	805-037C	PIN SPIROL 1/2X2 1/2 PLAIN		
52.	801-036C	SCREW SET SQ HD 3/8-16 X 3/4CP		
53.	802-055C	HHCS 5/8-11X2 GR5		
54.	148-268D	WEIGHT BRKT ADJUSTMENT LEG		
55.	804-022C	WASHER LOCK SPRING 5/8 PLT		

Main Frame (continued)

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)

Ref	Part No.	Part Description	Comments	Revision
56.	804-019C	WASHER FLAT 5/8 USS PLT		
57.	148-147H	INNER AXLE SLIDE TUBE WELDMENT		
57.	148-142H	INNER AXLE SLIDE TUBE WLDT-20		
58.	802-380C	HHCS 1/2-13X5 1/2 FTHD		
59.	148-160H	3 CYL BRACE WLMT		
59.	148-154H	3 1/4 & 3 1/2 CYL BRACE WLMT		
59.	148-161H	4 CYL BRACE WLMT		
59.	148-162H	4 1/4 CYL BRACE WLMT		
60.	803-036C	NUT HEX JAM 1/2-13 PLT		
61.	804-017C	WASHER FLAT 1/2 USS PLT		
62.	807-078C	SPRING DIE 1OD X 1/2ID X 1 3/4		
63.	803-147C	NUT HEX NYLOCK 1/2-13		

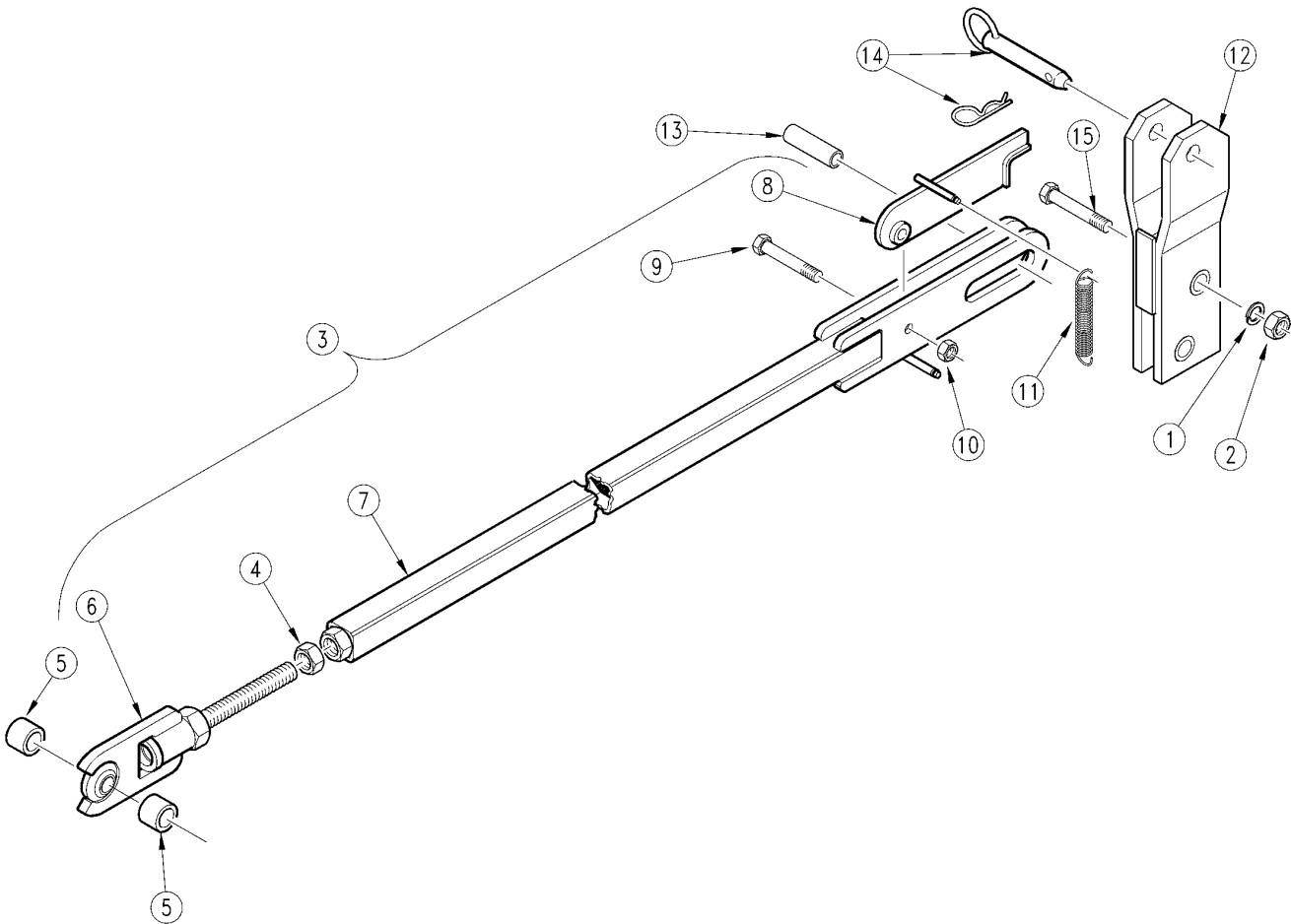
Main Frame (continued)

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)

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Level Link

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)



11758

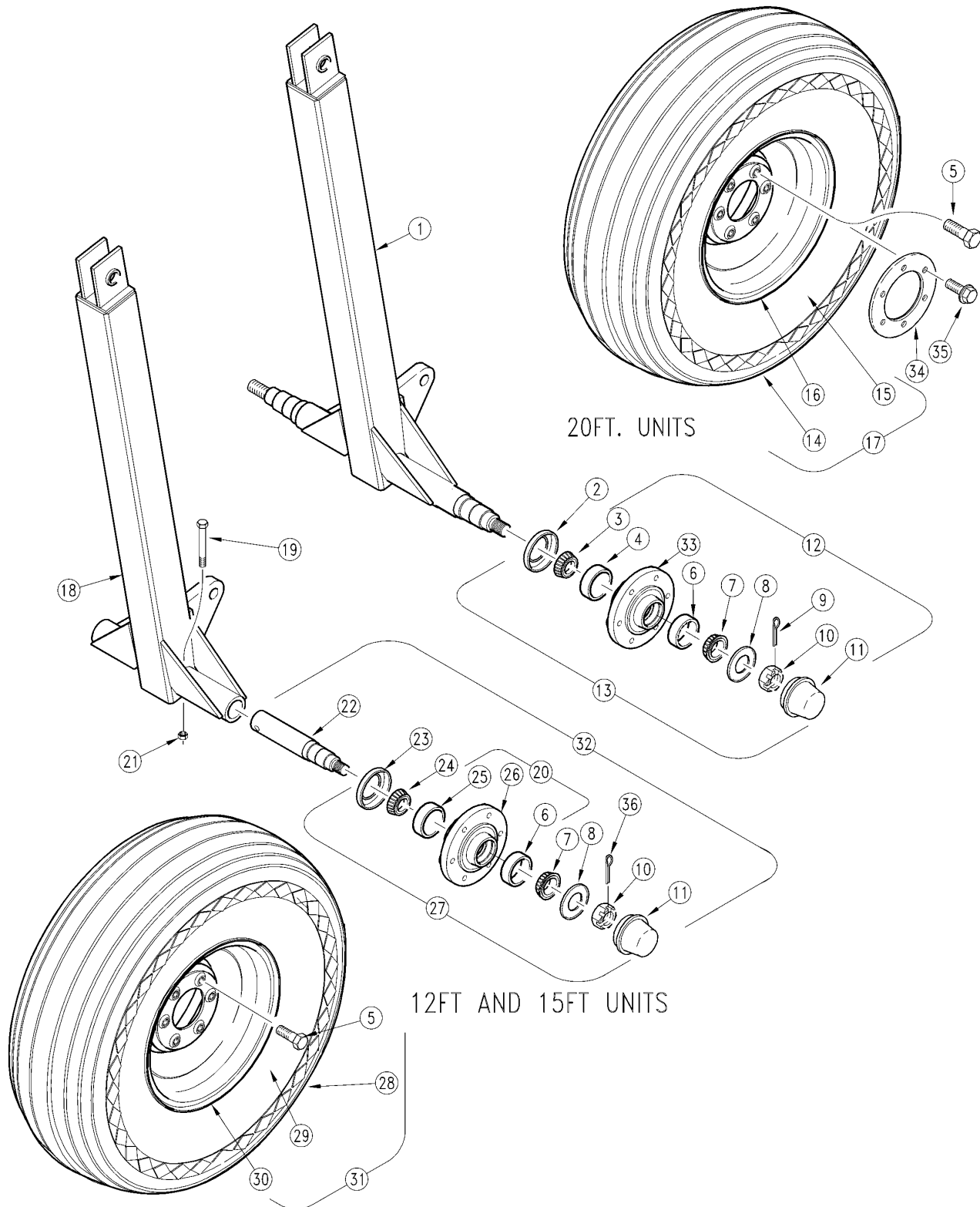
Level Link

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)

Ref	Part No.	Part Description	Comments	Revision
	dwg11758	Image No.		
1.	804-027C	WASHER LOCK SPRING 1 PLT		
2.	803-031C	NUT HEX 1-8 PLT		
3.	148-157K	94 CPH LEVEL LINK TUBE ASSY	Includes items 4, 6 - 11	
4.	803-034C	NUT HEX 1 1/4-7 PLT		
5.	148-212D	BALL JOINT SPACER TUBE		
6.	148-085H	LEVEL LINK ADJUSTER		
7.	148-148H	LEVEL LINK WELDMENT		
8.	148-084H	LEVEL LINK LOCK PLATE		
9.	802-059C	HHCS 5/8-11X3 GR5		
10.	803-024C	NUT LOCK 5/8-11 PLT		
11.	807-063C	SPRING, LEVEL LINK LOCK		
12.	148-149H	HITCH EXTENSION		
13.	148-113D	HITCH BAR SLEEVE		
14.	805-149C	PIN HITCH 1 X 3 3/4 USABLE PLT		
15.	802-205C	HHCS 1-8X5 1/2 GR5		

Transport Wheel

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)



11832

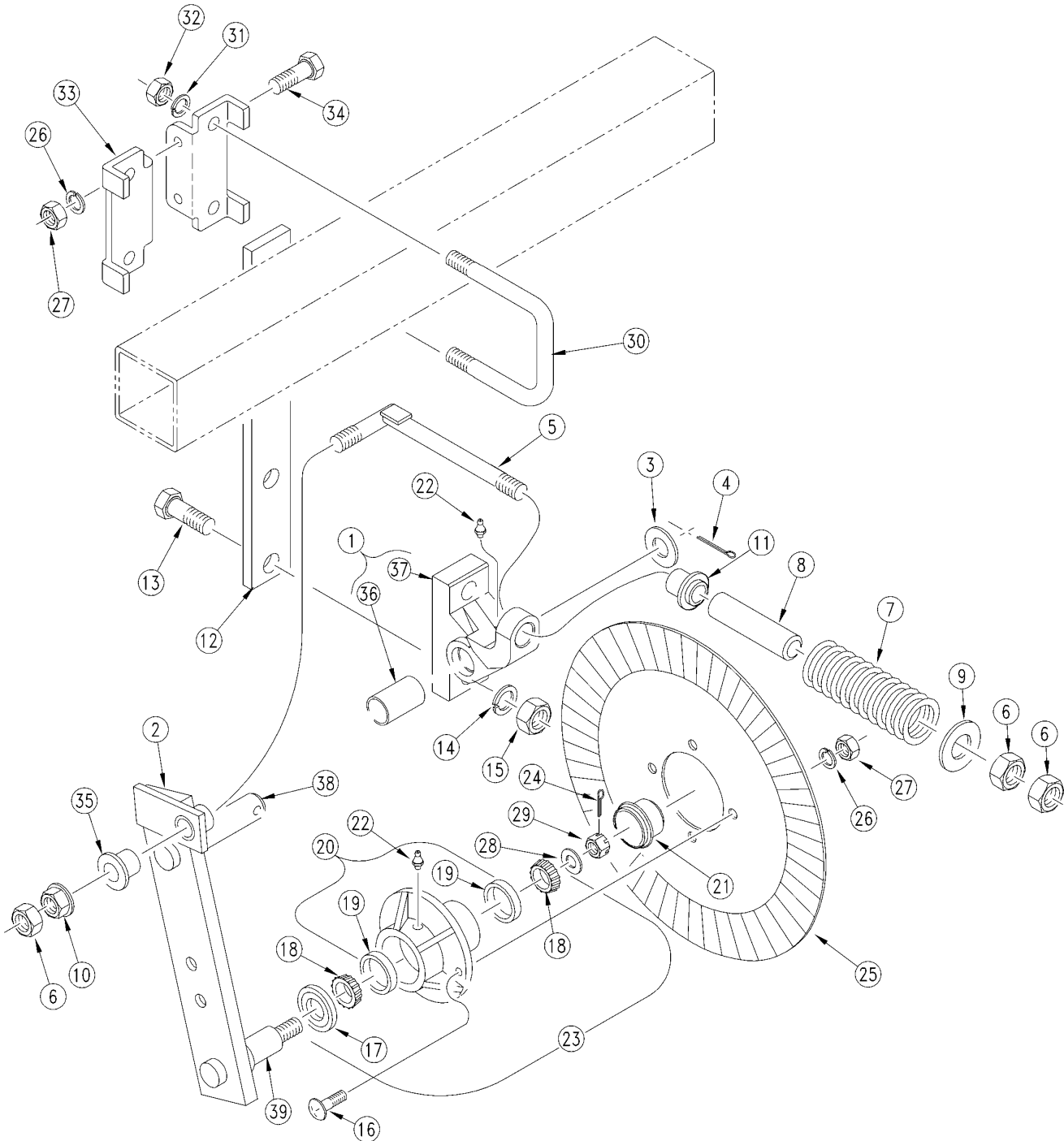
Transport Wheel

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)

Ref	Part No.	Part Description	Comments	Revision
	dwg11832	Image No.		
1.	148-142H	INNER AXLE SLIDE TUBE WLDT-20		
2.	816-033C	SEAL 3 X 2.25 X .25 CR 22368		
3.	822-048C	BRG CONE 1.62IDX.78WD#LM501349		
4.	822-053C	BRG CUP 2.89ODX.58WD #LM501310		
5.	802-104C	BOLT WHEEL 1/2-20X1 90-DEG		
6.	822-020C	BEARING CUP LM-67010		
7.	822-021C	BEARING CONE LM-67048		
8.	804-055C	WASHER SPINDLE - 7/8		
9.	805-016C	PIN COTTER 3/16 X 1 1/4 PLT		
10.	803-029C	NUT HEX SLOTTED 7/8-14 PLT		
11.	200-001D	HUB GREASE CAP		
12.	815-013C	6H-06AA HUB PACKAGE LESS SEAL	Includes items 3, 4, 6, 7, 11, 33	
13.	200-026S	20' CDH HUB ASSEMBLY	Includes items 2, 5, 12	
14.	814-145C	TIRE 11L-15SL 12 PLY TUBE TYPE		
15.	814-032C	TUBE 11L X 15SL W/CAL STEM		
16.	814-023C	WHEEL 15 DIA X 10 WIDE X 6 BLT		
17.	102-004K	TRANSPORT WHEEL & TIRE ASSY.	Includes items 14, 15, 16 (Also used with CPH-12F & CPH-15F)	
18.	148-147H	INNER AXLE SLIDE TUBE WELDMENT		
19.	802-099C	HHCS 1/2-13X3 1/4 GR5		
20.	815-082C	HUB 6 BOLT 4 5/8 PILOT W/ CUPS		2nd rev.
20.	200-037V	RPBY 815-082C		1st rev.
21.	803-019C	NUT LOCK 1/2-13 PLT		
22.	815-085C	SPINDLE SGL 1.75X10.72		2nd rev.
22.	201-003D	RPBY 815-085C		1st rev.
23.	816-011C	SEAL 2.56X1.625X.438 CR16289		
24.	822-018C	BRG CONE 1.50ID LM-29749		
25.	822-019C	BRG CUP LM-29710		
26.	200-003D	RPBY 815-082C		
27.	815-077C	HUB 6 BOLT 4 5/8 PILOT 3600 LB	Includes items 6, 7, 8, 10, 11, 20, 23, 24, 25	2nd rev.
27.	200-001S	RPBY 815-077C & (6)802-104C		1st rev.
28.	814-009C	TIRE 9.5L X 15-12 PLY-TUBELESS		
29.	814-015C	TUBE 9.5LX15-8 PLY W/CAL STEM		
30.	814-008C	WHEEL 8 X 15 X 6 BOLT		
31.	102-005K	PVT PL HITCH TRNSP WHL&TIRE	Includes items 28, 29, 30	
32.	815-079C	HUB AND SPINDLE ASSY 6 BOLT	Includes items 5, 8, 9, 10, 22 27	2nd rev.
32.	102-002K	RPBY 815-079C		1st rev.
33.	200-013D	RPBY 815-013C	Refer to item 12.	
34.	152-215D	WHEEL REINFORCING RING		
35.	802-399C	HFS 1/2-20X1 1/2 GR5		
36.	805-246C	PIN COTTER 5/32 X 1 3/4 LG		

Coulter (S/N 9791Z-)

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)



11932

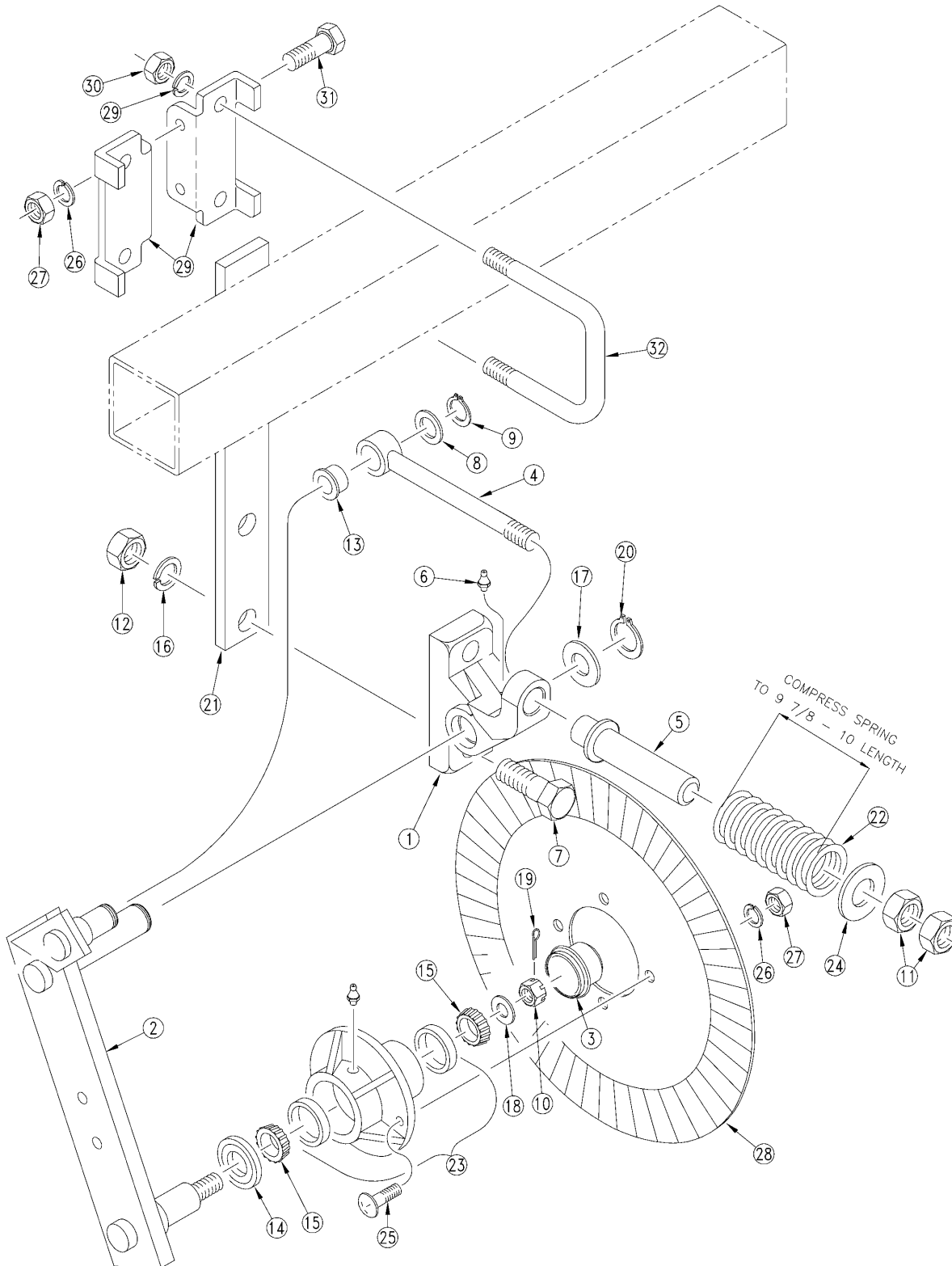
Coulter (S/N 9791Z-)

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)

Ref	Part No.	Part Description	Comments	Revision
	dwg11932	Image No.		
1.	149-962S	RPBY 249-136A	Includes items 36,37; Replaced 149-006D	
2.	149-181E	FERT COULTER SWING ARM	Includes items 38,39	2nd rev.
2.	149-928E	RPBY 149-181E		Use existing stock; 1st rev.
3.	804-039C	WASHER FLAT 1 1/4 SAE PLT		
4.	805-021C	PIN COTTER 1/4 X 2 PLT		
5.	204-075H	COULTER SPRING ROD WLDMT		
6.	803-048C	NUT HEX JAM 3/4-10 PLT		
7.	149-559D	SPRING 2.25 O.D. X .5 COIL		2nd rev.
7.	807-074C	SPRING 2.25 OD X .5 COIL		1st rev.
8.	204-107D	SPRING ROD SLEEVE 1 1/8 OD		
9.	149-558D	COULTER SPRING WASHER		2nd rev.
9.	812-031C	CASTING COULTER SPRING WASHER		1st rev.
10.	803-181C	NUT HEX FLANGE LOCK 3/4-10 PLT		
11.	817-029C	BUSHING COULTER CASTING		
12.	204-269D	LONG COULT. SPRING BAR		2nd rev.
12.	807-138C	LONG COULTER SPRING BAR		1st rev.
13.	802-103C	HHCS 7/8-9X2 3/4 GR5		
14.	804-037C	WASHER LOCK SPRING 7/8 PLT		
15.	803-049C	NUT HEX 7/8-9 PLT		
16.	802-214C	RHSNB 1/2-13X1 1/4 GR5		
17.	816-009C	OIL-SEAL DOUBLE LIP		
18.	822-021C	BEARING CONE LM-67048		
19.	822-020C	BEARING CUP LM-67010		
20.	200-039V	COULTER HUB & CUP ASSY		
21.	200-001D	HUB GREASE CAP		
22.	800-001C	GREASE ZERK STRAIGHT 1/4-28		
23.	200-002S	COULTER HUB PACKAGE	Includes items 17, 18, 19, 20, 22	
24.	805-017C	PIN COTTER 3/16 X 1 3/4 PLT		
25.	820-018C	COULTER BLADE FLUTED		
25.	820-116C	17 COULTER BLADE 5/8 WAVY		
25.	820-082C	17 COULTER BLADE 3/4 WAVY		
25.	820-156C	5/8 WAVY TURBO BLADE		
26.	804-015C	WASHER LOCK SPRING 1/2 PLT		
27.	803-020C	NUT HEX 1/2-13 PLT		
28.	804-055C	WASHER SPINDLE - 7/8		
29.	803-029C	NUT HEX SLOTTED 7/8-14 PLT		
30.	806-105C	U-BOLT 5/8-11 4 1/32 X 6		
31.	804-022C	WASHER LOCK SPRING 5/8 PLT		
32.	803-021C	NUT HEX 5/8-11 PLT		
33.	149-059D	COULTER CLAMP BAR		
34.	802-082C	HHCS 1/2-13X1 3/4 GR5		
35.	817-051C	SWING ARM BUSHING		
36.	890-389C	BUSHING 1.50ODX1.25IDX2.94		
37.	149-552D	RPBY 249-136A		
38.	149-004D	COULTER PIVOT SHAFT		
39.	201-006D	SPINDLE COULTER		

Coulter (S/N 9792Z+)

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)



21713

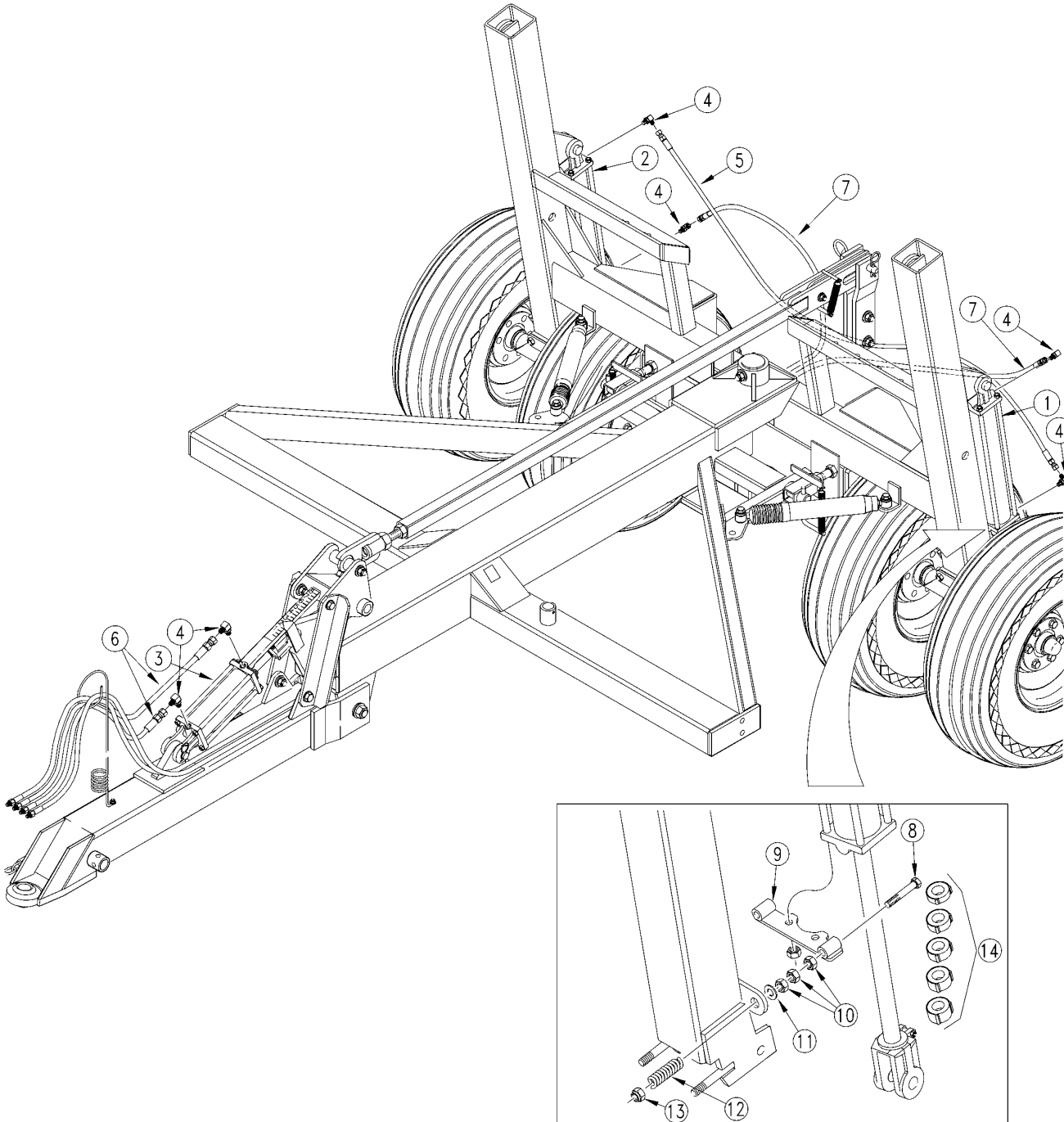
Coulter (S/N 9792Z+)

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)

Ref	Part No.	Part Description	Comments	Revision
	dwg21713	Image No.		
1.	249-050S	CLTR CASTING ASSY		
2.	249-051H	CLTR SWING ARM WLMT		
3.	200-001D	HUB GREASE CAP		
4.	802-718C	EYE BOLT 3/4-10X14 3/4 LG SP		
5.	805-331C	COULTER SPRING GUIDE TUBE		
6.	800-001C	GREASE ZERK STRAIGHT 1/4-28		
7.	802-103C	HHCS 7/8-9X2 3/4 GR5		
8.	804-156C	WASHER MACH 1 1/4X3/4X14GA		
9.	800-164C	SNAP RING 3/4 EXTERNAL HEAVY		
10.	803-029C	NUT HEX SLOTTED 7/8-14 PLT		
11.	803-048C	NUT HEX JAM 3/4-10 PLT		
12.	803-049C	NUT HEX 7/8-9 PLT		
13.	817-513C	BUSHING 1X3/4X1 1/8 FLG HD		
14.	816-009C	OIL-SEAL DOUBLE LIP		
15.	822-021C	BEARING CONE LM-67048		
16.	804-037C	WASHER LOCK SPRING 7/8 PLT		
17.	804-165C	WASHER MACH 1 7/8X1 1/4X 14GA		
18.	804-055C	WASHER SPINDLE - 7/8		
19.	805-017C	PIN COTTER 3/16 X 1 3/4 PLT		
20.	800-177C	SNAP RING EXT 1 1/4 HEAVY		
21.	204-272D	COULT. SPRING BAR		
22.	149-559D	SPRING 2.25 O.D. X .5 COIL		
23.	200-039V	COULTER HUB & CUP ASSY		
24.	149-558D	COULTER SPRING WASHER		
25.	802-214C	RHSNB 1/2-13X1 1/4 GR5		
26.	804-015C	WASHER LOCK SPRING 1/2 PLT		
27.	803-020C	NUT HEX 1/2-13 PLT		
28.	820-018C	COULTER BLADE FLUTED		
28.	820-116C	17 COULTER BLADE 5/8 WAVY		
28.	820-082C	17 COULTER BLADE 3/4 WAVY		
28.	820-156C	5/8 WAVY TURBO BLADE		
28.	820-215C	18 INCH TURBO COULTER BLADE		
28.	820-220C	18 IN. 3/4 WAVY COULTER BLADE		
29.	804-022C	WASHER LOCK SPRING 5/8 PLT		
30.	803-021C	NUT HEX 5/8-11 PLT		
31.	802-082C	HHCS 1/2-13X1 3/4 GR5		
32.	806-105C	U-BOLT 5/8-11 4 1/32 X 6		

Hydraulics

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)



11978

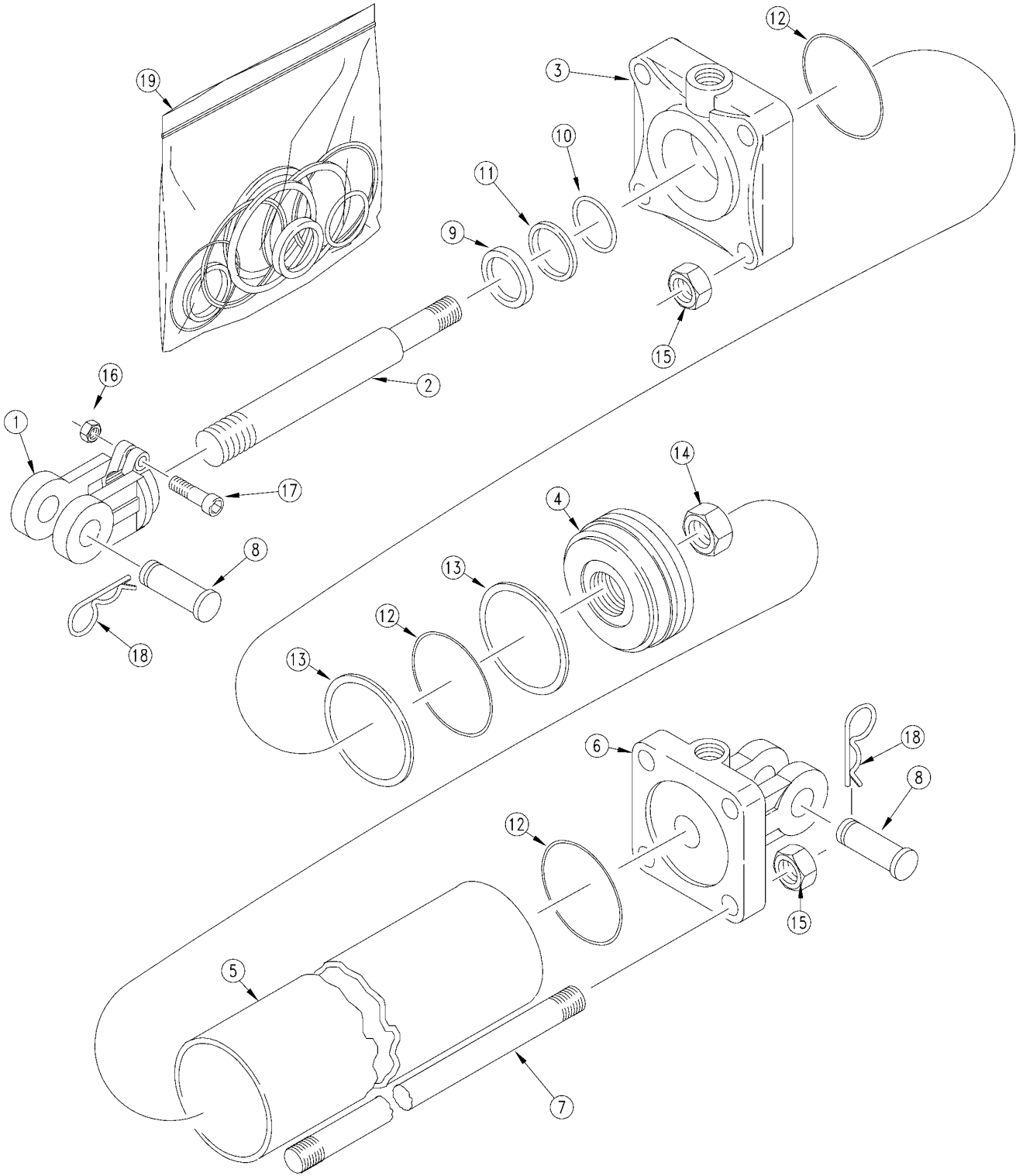
Hydraulics

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)

Ref	Part No.	Part Description	Comments	Revision
	dwg11978	Image No.		
1.	810-194C	CYL REP 4.25X24X1.5 ROD (TIE)	CPH w/Dry Fertilizer. Refer to "Rephasing Transport Cylinder 810-194C" for breakdown.	
1.	810-192C	CYL REP 3.5X24X1.25 ROD (TIE)	20' CPH Non-Fertilizer. Refer to "Rephasing Transport Cylinder 810-192C" for breakdown.	
1.	810-191C	CYL REP 3.25X24X1.25 ROD (TIE)	12' & 15' CPH Non-Fertilizer. Refer to "Transport Cylinder 810-191C" for breakdown.	
2.	810-193C	CYL REP 4X24X1.37 ROD (TIE)	CPH w/Dry Fertilizer. Refer to "Rephasing Transport Cylinder 810-193C" for breakdown.	
2.	810-191C	CYL REP 3.25X24X1.25 ROD (TIE)	20' CPH Non-Fertilizer. Refer to "Transport Cylinder 810-191C" for breakdown.	
2.	810-190C	CYL REP 3X24X1.25 ROD (TIE)	12' & 15' CPH Non-Fertilizer. Refer to "Rephasing Transport Cylinder 810-190C" for breakdown.	
3.	810-195C	CYL 3X8X1.25 ROD (TIE) NO PINS	Refer to "Tongue Cylinder 810-195C" for breakdown.	
4.	811-063C	EL 3/4MJIC 3/4MORB		
5.	811-059C	HH1/2R2 080 3/4FJIC		
6.	811-272C	HH1/2R2 096 3/4MORB 3/4FJIC		
7.	811-289C	HH1/2R2 250 3/4MORB 3/4FJIC		
8.	802-380C	HHCS 1/2-13X5 1/2 FTHD		
9.	148-160H	3 CYL BRACE WLMT		
9.	148-154H	3 1/4 & 3 1/2 CYL BRACE WLMT		
9.	148-161H	4 CYL BRACE WLMT		
9.	148-162H	4 1/4 CYL BRACE WLMT		
10.	803-036C	NUT HEX JAM 1/2-13 PLT		
11.	804-017C	WASHER FLAT 1/2 USS PLT		
12.	807-078C	SPRING DIE 1OD X 1/2ID X 1 3/4		
13.	803-147C	NUT HEX NYLOCK 1/2-13		
14.	810-442C	MW STOP BUSH SET 1 1/4 SBS125	CPH Non-Fertilizer 2002+	
14.	810-443C	MW STOP BUSH SET 1 1/2 SBS150	CPH w/Dry Fertilizer 2002+	

Tongue Cylinder 810-195C

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)



10035

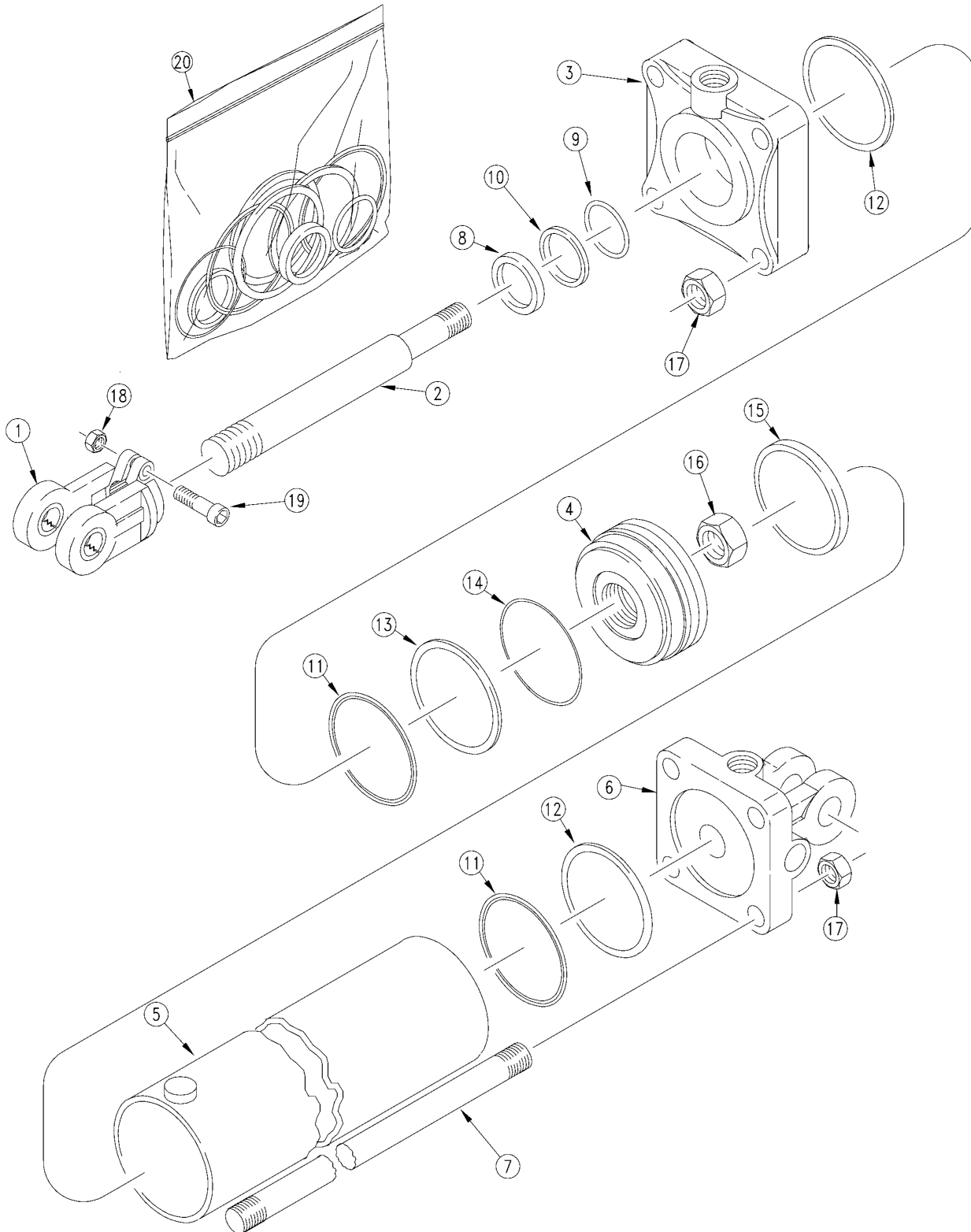
Tongue Cylinder 810-195C

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)

Ref	Part No.	Part Description	Comments	Revision
	dwg10035	Image No.		
1.	1M7016	CLEVIS ROD MIDWAY		
2.	2M4416	MW ROD 1-1/4 DIA X 8 STROKE		
3.	3R1412	MW HEAD 3X1-1/4 ROD PT.E		
4.	4M4104	RPBY 4M4108		
5.	5M4116	MW TUBE 3 X 8 CYLINDER		
6.	6R1164	MW BASE		
7.	7M4316	MW TIE ROD 3 X 8 CYLINDER		
8.	2A0208	RPBY 805-124C		
9.		WIPER SEAL	Only available in item 19.	
10.		O-RING	Only available in item 19.	
11.		BACK-UP	Only available in item 19.	
12.		O-RING	Only available in item 19.	
13.		BACK-UP	Only available in item 19.	
14.	2A0024	MW PISTON NUT 1-14		
15.	2A0014	MW TIE ROD NUT		
16.	2A0012	RPBY 803-234C		
17.	2A0006	RPBY 802-023C		
18.	2A0132	MW PIN CLIP		
19.	810-015C	CYL SEAL KIT MW (5A4104) 3 X 7		

Rephasing Transport Cylinder 810-190C

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)



11715

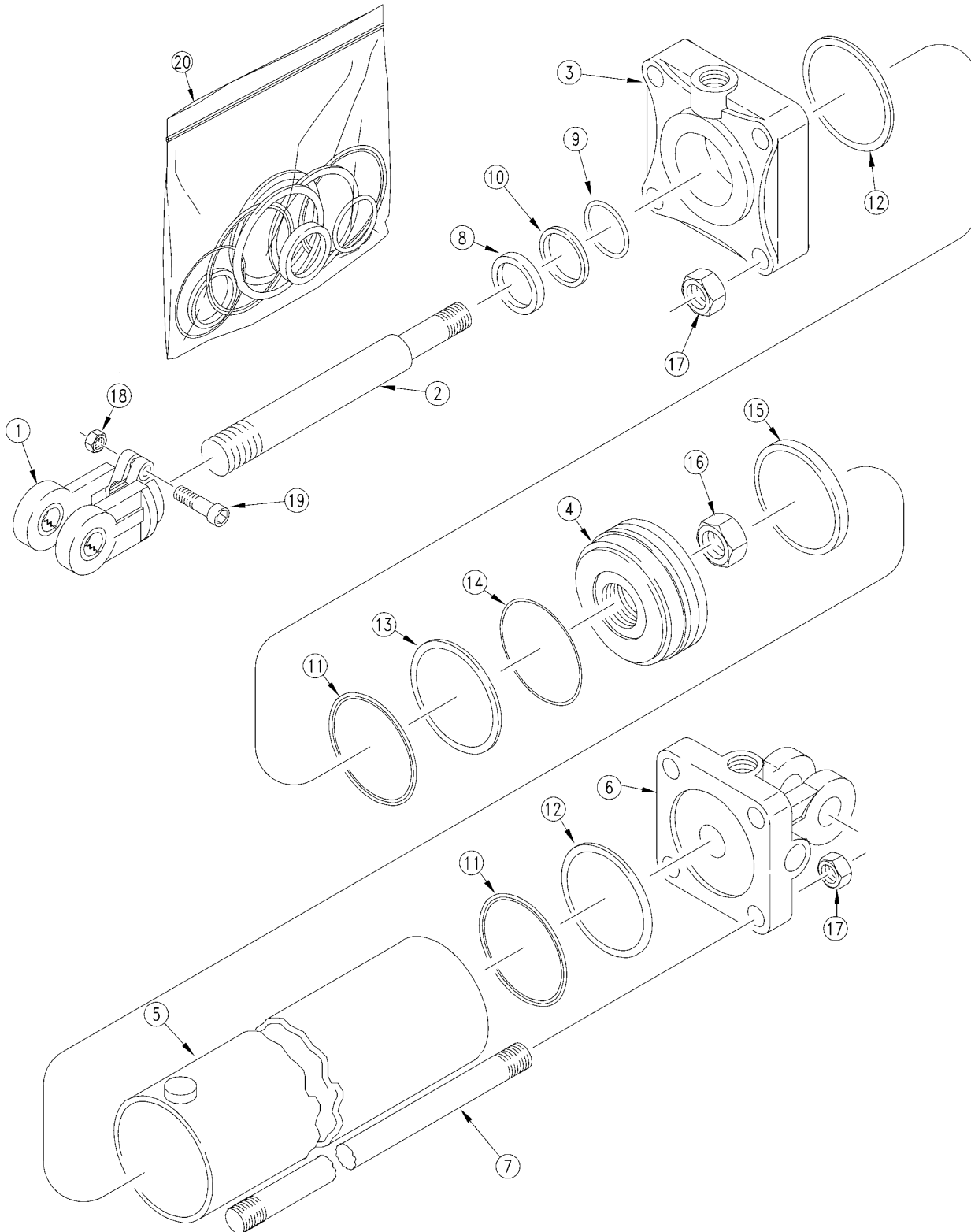
Rephasing Transport Cylinder 810-190C

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)

Ref	Part No.	Part Description	Comments	Revision
	dwg11715	Image No.		
1.	1M7016	CLEVIS ROD MIDWAY		
2.	2M4434	MW ROD		
3.	3R1412	MW HEAD 3X1-1/4 ROD PT.E		
4.	4R1106	RPBY 4R1108		
5.	5R1132	MW TUBE		
6.	6R1164	MW BASE		
7.	7M4412	MW TIE ROD		
8.		WIPER SEAL	Only available in item 20.	
9.		O-RING	Only available in item 20.	
10.		BACK-UP	Only available in item 20.	
11.		O-RING	Only available in item 20.	
12.		BACK-UP	Only available in item 20.	
13.		TEFLON SEAL	Only available in item 20.	
14.		LOADER O-RING	Only available in item 20.	
15.		WEAR RING	Only available in item 20.	
16.	2A0024	MW PISTON NUT 1-14		
17.	2A0014	MW TIE ROD NUT		
18.	2A0012	RPBY 803-234C		
19.	2A0006	RPBY 802-023C		
20.	810-211C	SEAL KIT MW 3 RPHCYL 4A1104		

Transport Cylinder 810-191C

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)



11715

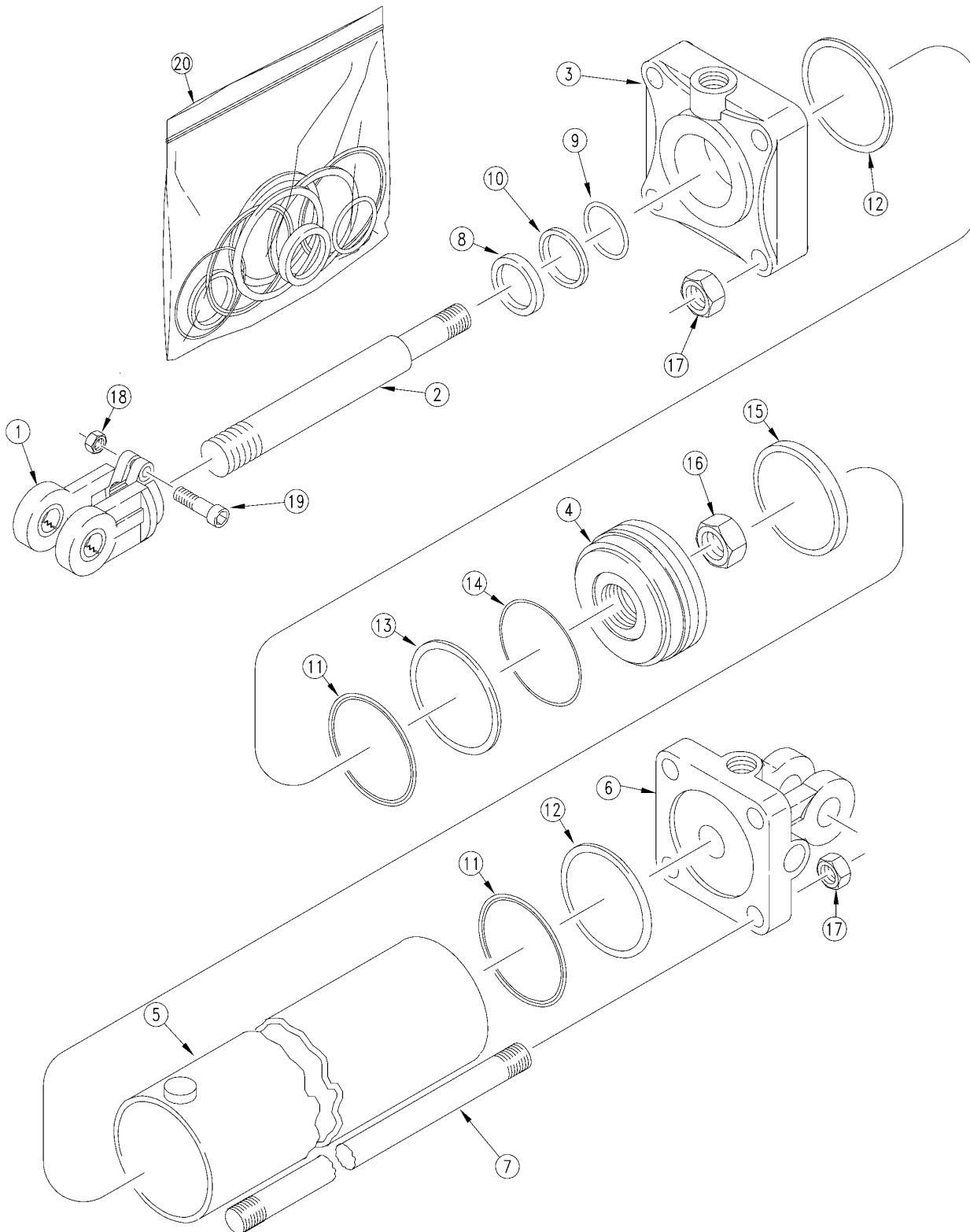
Transport Cylinder 810-191C

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)

Ref	Part No.	Part Description	Comments	Revision
	dwg11715	Image No.		
1.	1M7016	CLEVIS ROD MIDWAY		
2.	2M5434	MW ROD		
3.	3R2412	MW HEAD		
4.	4R2106	RPBY 4R2108		
5.	5R2132	MW TUBE		
6.	6R2164	BASE MIDWAY		
7.	7M5412	MW TIE ROD		
8.		WIPER SEAL	Only available in item 20.	
9.		O-RING	Only available in item 20.	
10.		BACK-UP	Only available in item 20.	
11.		O-RING	Only available in item 20.	
12.		BACK-UP	Only available in item 20.	
13.		TEFLON SEAL	Only available in item 20.	
14.		LOADER O-RING	Only available in item 20.	
15.		WEAR RING	Only available in item 20.	
16.	2A0024	MW PISTON NUT 1-14		
17.	2A0016	MW TIE ROD NUT		
18.	2A0012	RPBY 803-234C		
19.	2A0006	RPBY 802-023C		
20.	810-173C	SEAL KIT MW 3.25 RPHCYL 4A2104		

Rephasing Transport Cylinder 810-192C

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)



11715

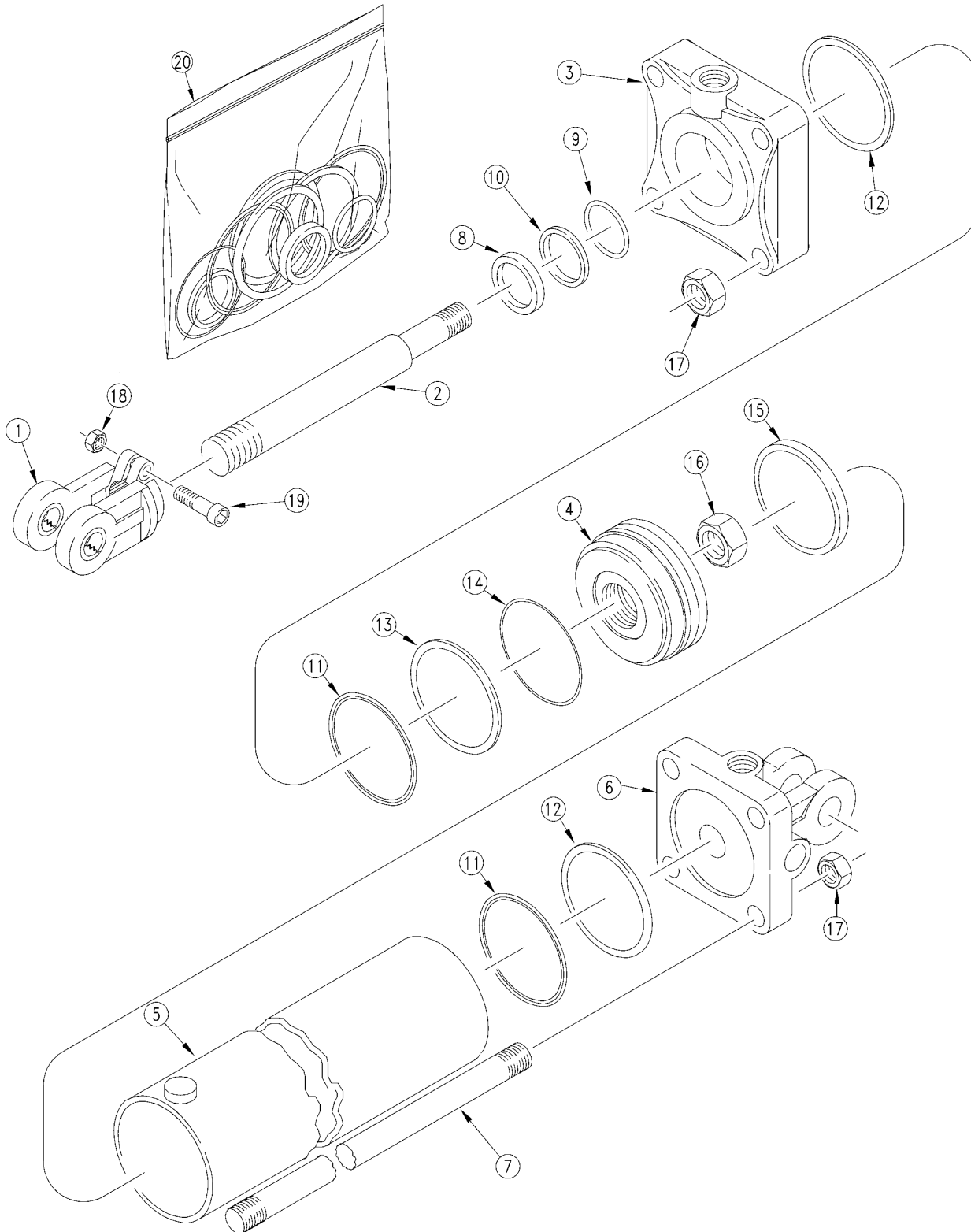
Rephasing Transport Cylinder 810-192C

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)

Ref	Part No.	Part Description	Comments	Revision
	dwg11715	Image No.		
1.	1M7016	CLEVIS ROD MIDWAY		
2.	2M5434	MW ROD		
3.	3R3412	MW HEAD		
4.	4R3106	RPBY 4R3108		
5.	5R3132	MW TUBE		
6.	6R3164	BASE MIDWAY		
7.	7M5412	MW TIE ROD		
8.		WIPER SEAL	Only available in item 20.	
9.		O-RING	Only available in item 20.	
10.		BACK-UP	Only available in item 20.	
11.		O-RING	Only available in item 20.	
12.		BACK-UP	Only available in item 20.	
13.		TEFLON SEAL	Only available in item 20.	
14.		LOADER O-RING	Only available in item 20.	
15.		WEAR RING	Only available in item 20.	
16.	2A0024	MW PISTON NUT 1-14		
17.	2A0016	MW TIE ROD NUT		
18.	2A0012	RPBY 803-234C		
19.	2A0006	RPBY 802-023C		
20.	810-174C	SEAL KIT MW 3.5 RPHCYL 4A3104		

Rephasing Transport Cylinder 810-193C

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)



11715

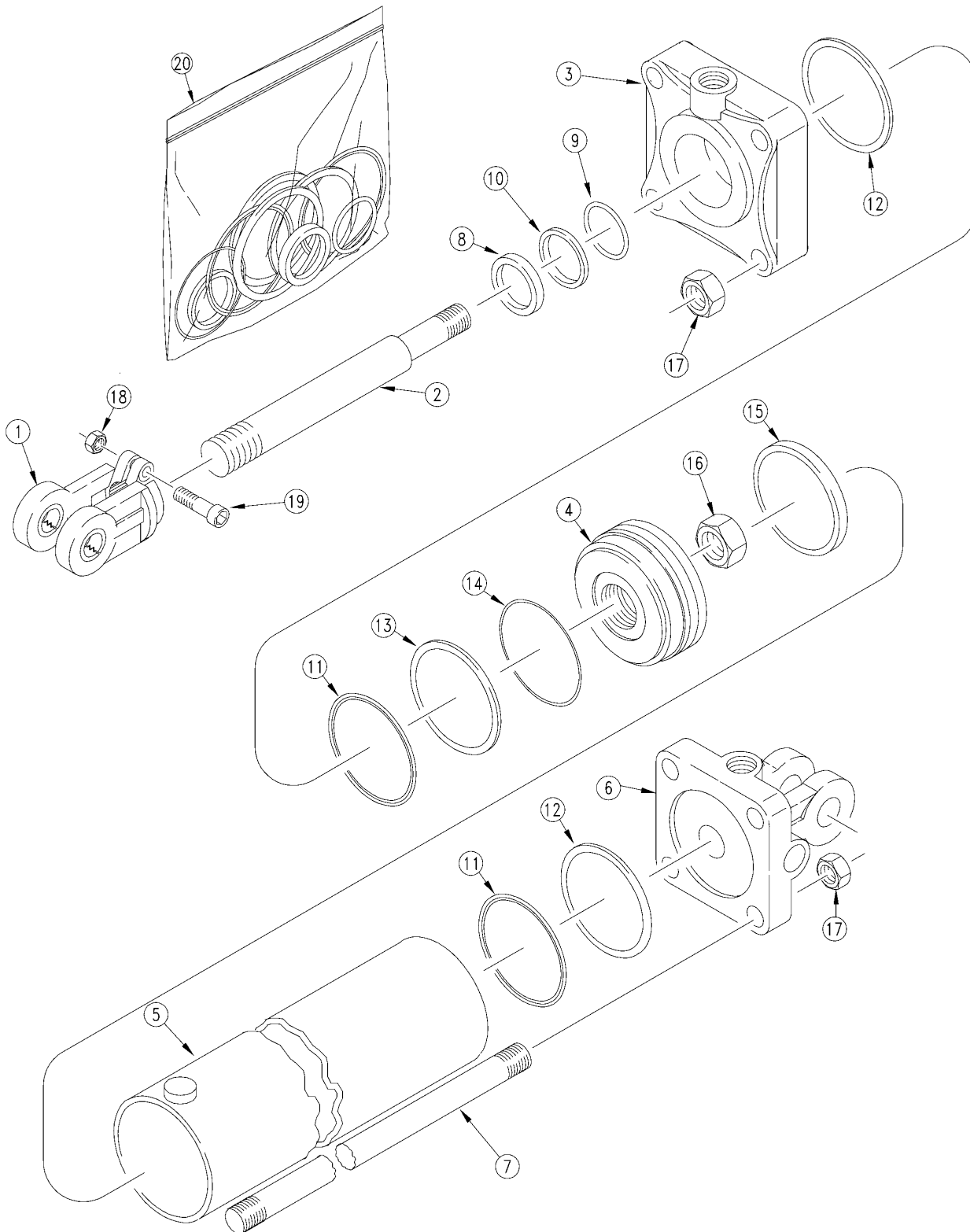
Rephasing Transport Cylinder 810-193C

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)

Ref	Part No.	Part Description	Comments	Revision
	dwg11715	Image No.		
1.	1M7016	CLEVIS ROD MIDWAY		
2.	2M6832	MW ROD		
3.	3R5812	MW HEAD		
4.	4R5108	PISTON MIDWAY		
5.	5R5132	MW TUBE		
6.	6R5164	BASE MIDWAY		
7.	7M6426	MW TIE ROD		
8.		WIPER SEAL	Only available in item 20.	
9.		O-RING	Only available in item 20.	
10.		BACK-UP	Only available in item 20.	
11.		O-RING	Only available in item 20.	
12.		BACK-UP	Only available in item 20.	
13.		TEFLON SEAL	Only available in item 20.	
14.		LOADER O-RING	Only available in item 20.	
15.		WEAR RING	Only available in item 20.	
16.	2A0024	MW PISTON NUT 1-14		
17.	2A0018	MW TIE ROD NUT		
18.	2A0012	RPBY 803-234C		
19.	2A0006	RPBY 802-023C		
20.	810-151C	SEAL KIT MW 4 RPH CYL 4A5103		

Rephasing Transport Cylinder 810-194C

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)



11715

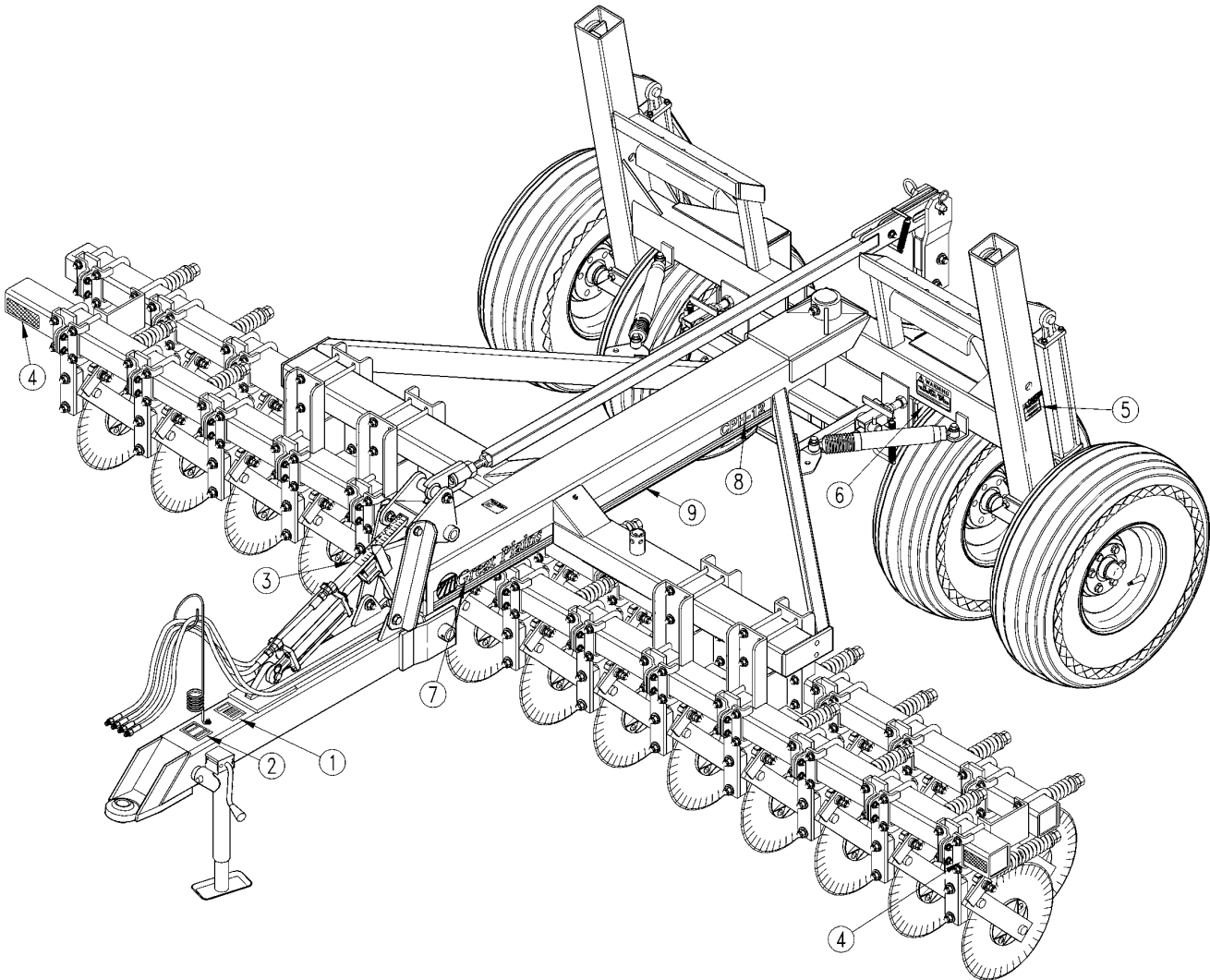
Rephasing Transport Cylinder 810-194C

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)

Ref	Part No.	Part Description	Comments	Revision
	dwg11715	Image No.		
1.	1M7016	CLEVIS ROD MIDWAY		
2.	2M7532	MW ROD		
3.	3R6912	HEAD MIDWAY		
4.	4R6108	PISTON MIDWAY		
5.	5R6132	MW TUBE		
6.	6R6164	MW BASE		
7.	7M7426	MW TIE ROD		
8.		WIPER SEAL	Only available in item 20.	
9.		O-RING	Only available in item 20.	
10.		BACK-UP	Only available in item 20.	
11.		O-RING	Only available in item 20.	
12.		BACK-UP	Only available in item 20.	
13.		TEFLON SEAL	Only available in item 20.	
14.		LOADER O-RING	Only available in item 20.	
15.		WEAR RING	Only available in item 20.	
16.	2A0024	MW PISTON NUT 1-14		
17.	2A0019	RPBY 803-257C		
18.	2A0012	RPBY 803-234C		
19.	2A0006	RPBY 802-023C		
20.	810-144C	SEAL KIT MW 4.25 RPHCYL 4A6104		

Decal Placement

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)



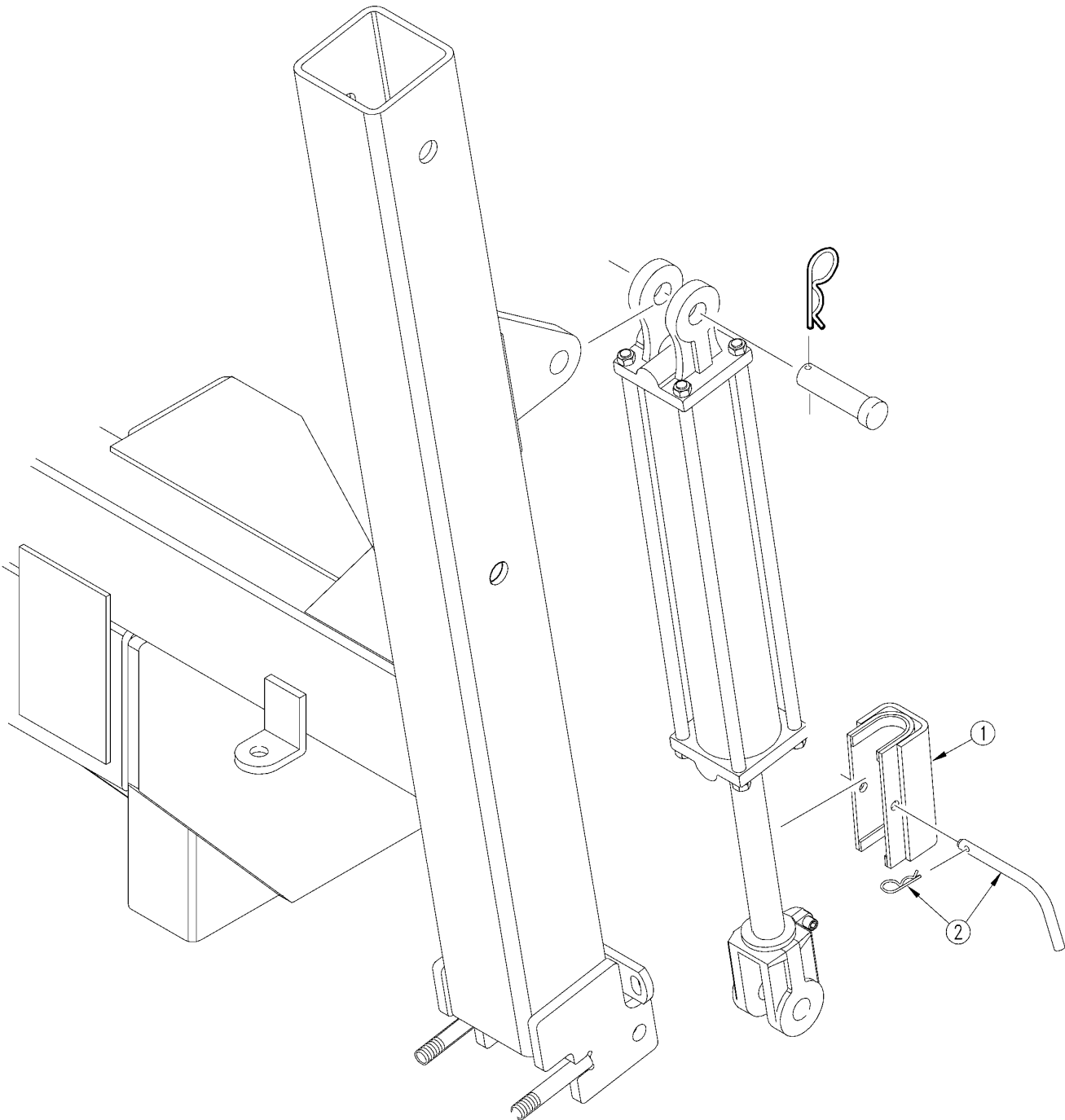
Decal Placement

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)

Ref	Part No.	Part Description	Comments	Revision
	dwg12076	Image No.		
1.	818-016C	DECAL CAUTION PIVOT PULL HITCH		
2.	818-019C	DECAL WARNING NEG TONGUE WT		
3.	818-181C	DECAL STROKE GAUGE		
4.	838-265C	DECAL REFLECTOR AMBER 1 1/2X9	2001+	
5.	818-398C	DECAL CAUTION TIRES NOT A STEP		
6.	818-188C	DECAL WARNING 20 MPH TRANS LRG		
7.	838-161C	DECAL LOGO&GP F/STRIPE 4 X 24	2000+	Rev. 2 is not interchangeable w/rev. 1
7.	818-416C	DECAL GREAT PLAINS LOGO	1994<->1999	1st rev.
8.	838-215C	DECAL CPH-12	2000+	Rev. 2 is not interchangeable w/rev. 1
8.	818-417C	DECAL CENTER PIVOT HITCH 1200	1994<->1999	1st rev.
8.	838-216C	DECAL CPH-15	2000+	Rev. 2 is not interchangeable w/rev. 1
8.	818-418C	RPBY 838-216C	1994<->1999	1st rev.
8.	838-217C	DECAL CPH-20	2000+	Rev. 2 is not interchangeable w/rev. 1
8.	818-419C	RPBY 838-217C	1994<->1999	1st rev.
9.	838-160C	DECAL 3 COLOR STRIPE 2.50 WIDE	2000+	

Coulter Depth Control Hydraulics (Options)

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)



13182

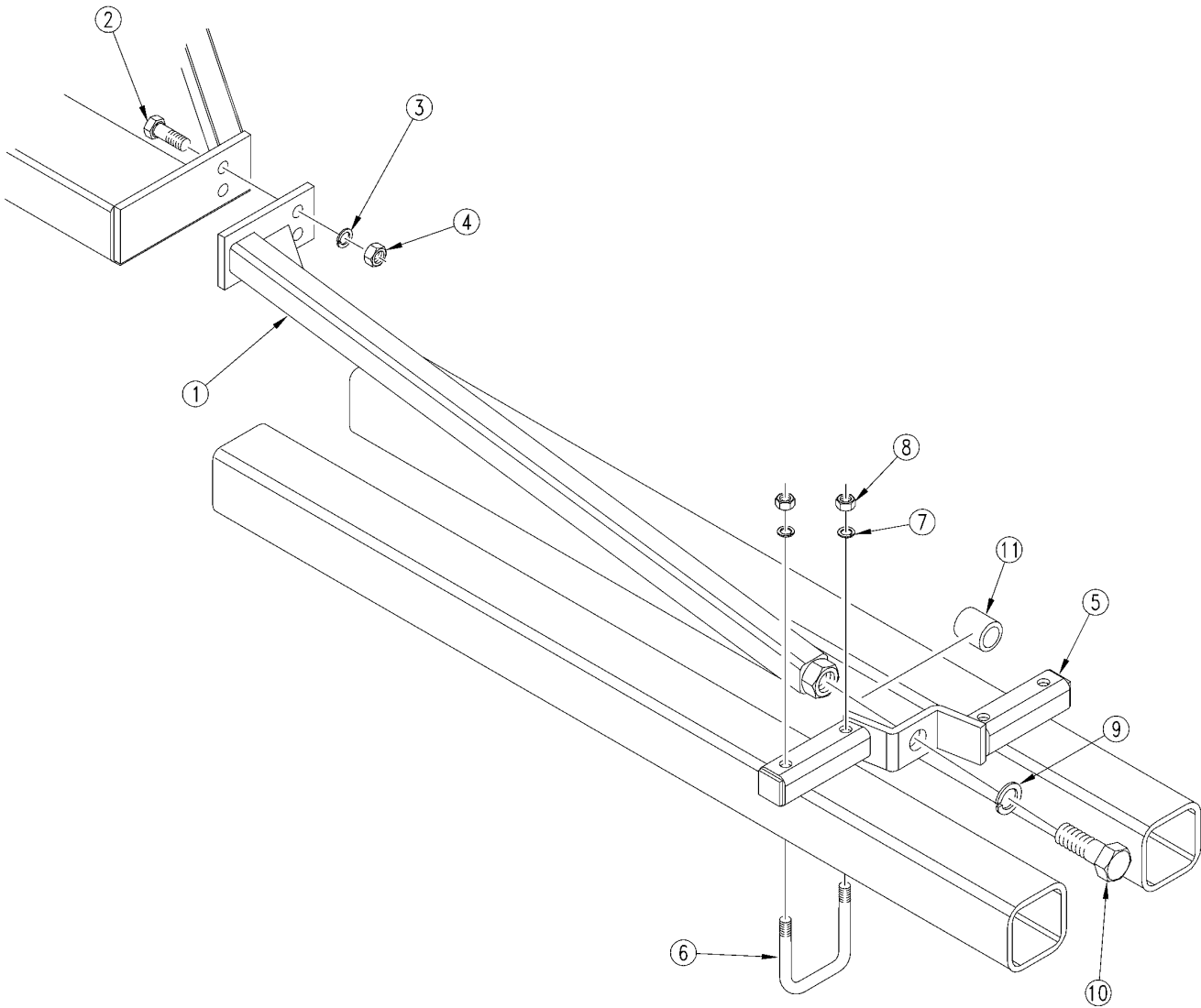
Coulter Depth Control Hydraulics (Options)

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)

Ref	Part No.	Part Description	Comments	Revision
	dwg14015	Image No.		
1.	148-266S	6 CYL DEPTH CHANNEL ASY		
2.	805-001C	PIN 3/8 X 3 USABLE LW/PIN	Formerly 805-152C	

Coulter Tool Bar Brace

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)



11979

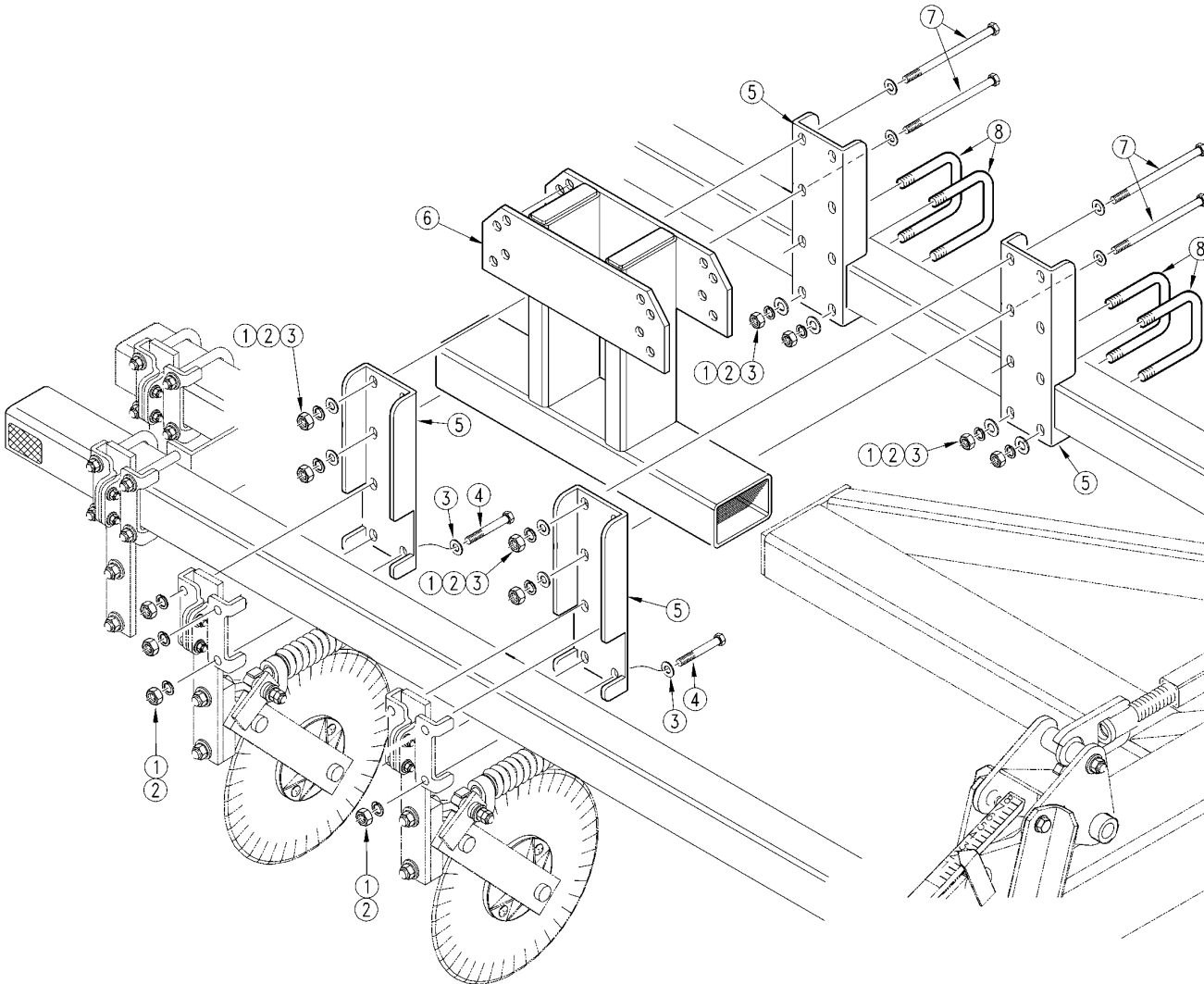
Coulter Tool Bar Brace

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)

Ref	Part No.	Part Description	Comments	Revision
	dwg11979	Image No.		
1.	149-166H	20'CPH TOOL BAR BRACE WLMT LH		
1.	149-167H	20'CPH TOOL BAR BRACE WLMT RH		
2.	802-064C	HHCS 3/4-10X2 GR5		
3.	804-023C	WASHER LOCK SPRING 3/4 PLT		
4.	803-027C	NUT HEX 3/4-10 PLT		
5.	149-165H	20'TOOL BAR SUPPORT WLMT		
6.	806-063C	U-BOLT 5/8-11 X 4 1/32 X 7		
7.	804-022C	WASHER LOCK SPRING 5/8 PLT		
8.	803-021C	NUT HEX 5/8-11 PLT		
9.	804-030C	WASHER LOCK 1 1/4 SPRING PLT		
10.	802-123C	HHCS 1 1/4-7X2 1/2 GR5		
11.	149-586D	CPH BRACE KIT SPACER		

Weight Frame Bracket (149-168A)

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)



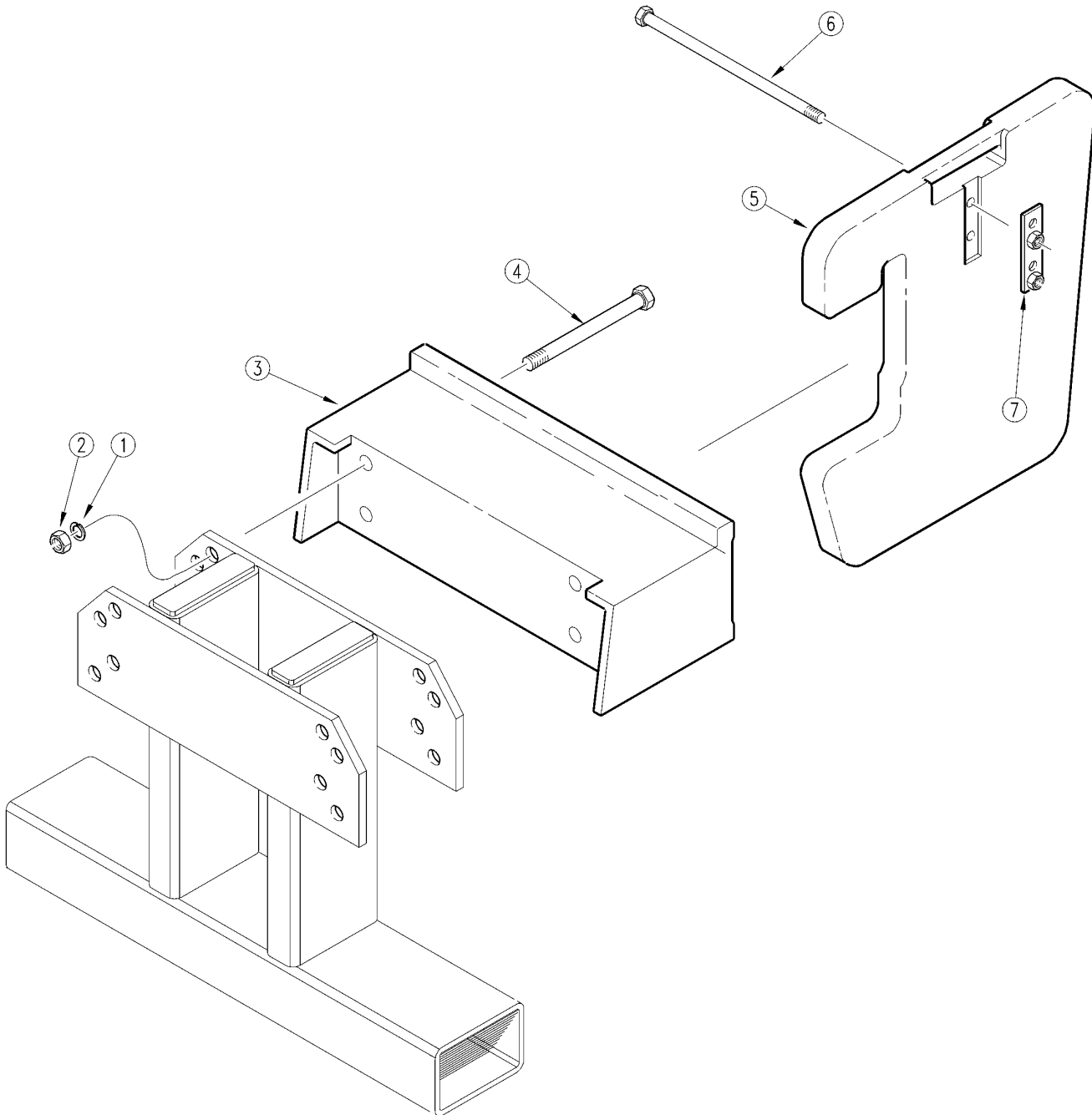
Weight Frame Bracket (149-168A)

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)

Ref	Part No.	Part Description	Comments	Revision
	dwg12138	Image No.		
1.	803-021C	NUT HEX 5/8-11 PLT		
2.	804-022C	WASHER LOCK SPRING 5/8 PLT		
3.	804-019C	WASHER FLAT 5/8 USS PLT		
4.	802-335C	HHCS 5/8-11X6 1/2 GR5		
5.	149-072D	COULTER BAR CLAMP		
6.	149-058H	TOOL BAR WEIGHT BRACKET FRAME		
7.	802-208C	HHCS 5/8-11X8 GR5		
8.	806-105C	U-BOLT 5/8-11 4 1/32 X 6		

John Deere Weight Bracket (149-032A)

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)



12140

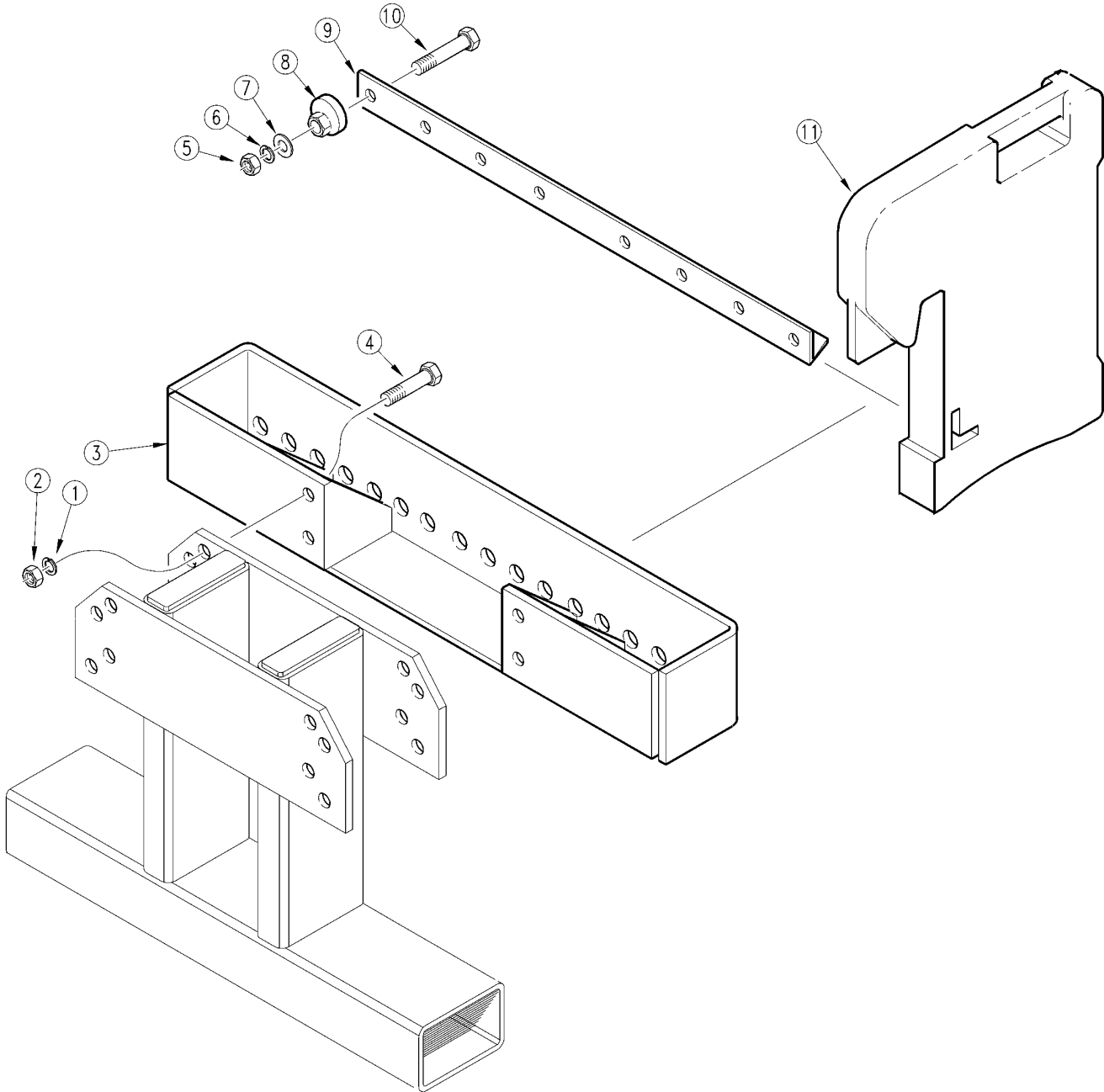
John Deere Weight Bracket (149-032A)

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)

Ref	Part No.	Part Description	Comments	Revision
	dwg12140	Image No.		
1.	804-023C	WASHER LOCK SPRING 3/4 PLT		
2.	803-027C	NUT HEX 3/4-10 PLT		
3.	812-015C	CASTING J.D. WEIGHT BRACKET		
4.	802-095C	HHCS 3/4-10X7 GR5		
5.	812-017C	CASTING JD SUITCASE WEIGHT		
6.	802-112C	HHCS 5/8-11X14 GR5		
7.	149-059H	NUT STRAP WELDMENT		

Case I.H. Weight Bracket (149-034A)

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)



12141

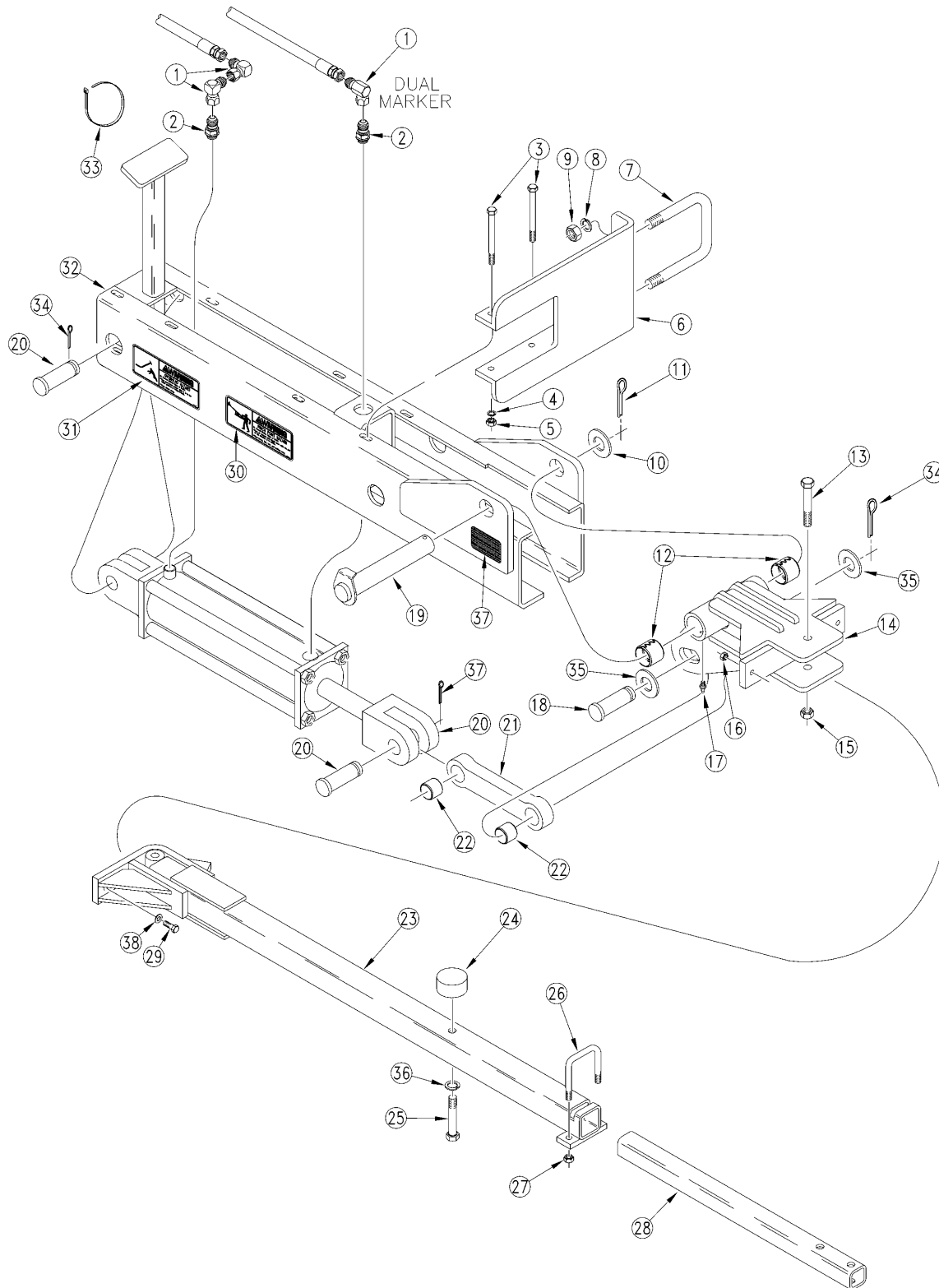
Case I.H. Weight Bracket (149-034A)

(Applies to CPH12 (1994+), CPH15 (1994+), CPH20 (1994+) only)

Ref	Part No.	Part Description	Comments	Revision
	dwg12141	Image No.		
1.	804-023C	WASHER LOCK SPRING 3/4 PLT		
2.	803-027C	NUT HEX 3/4-10 PLT		
3.	149-057H	I.H. STEEL WEIGHT BRACKET		
4.	802-065C	HHCS 3/4-10X2 1/4 GR5		
5.	803-021C	NUT HEX 5/8-11 PLT		
6.	804-022C	WASHER LOCK SPRING 5/8 PLT		
7.	804-021C	WASHER FLAT 5/8 SAE PLT		
8.	812-016C	CASTING CAM		
9.	149-046D	ANGLE LOCK BAR		
10.	802-059C	HHCS 5/8-11X3 GR5		
11.	812-018C	CASTING IH SUITCASE WEIGHT		
11.	812-019C	CASTING CASE SUITCASE WEIGHT		

Marker Assembly

(Applies to CPH12 (1994+) only)



24482

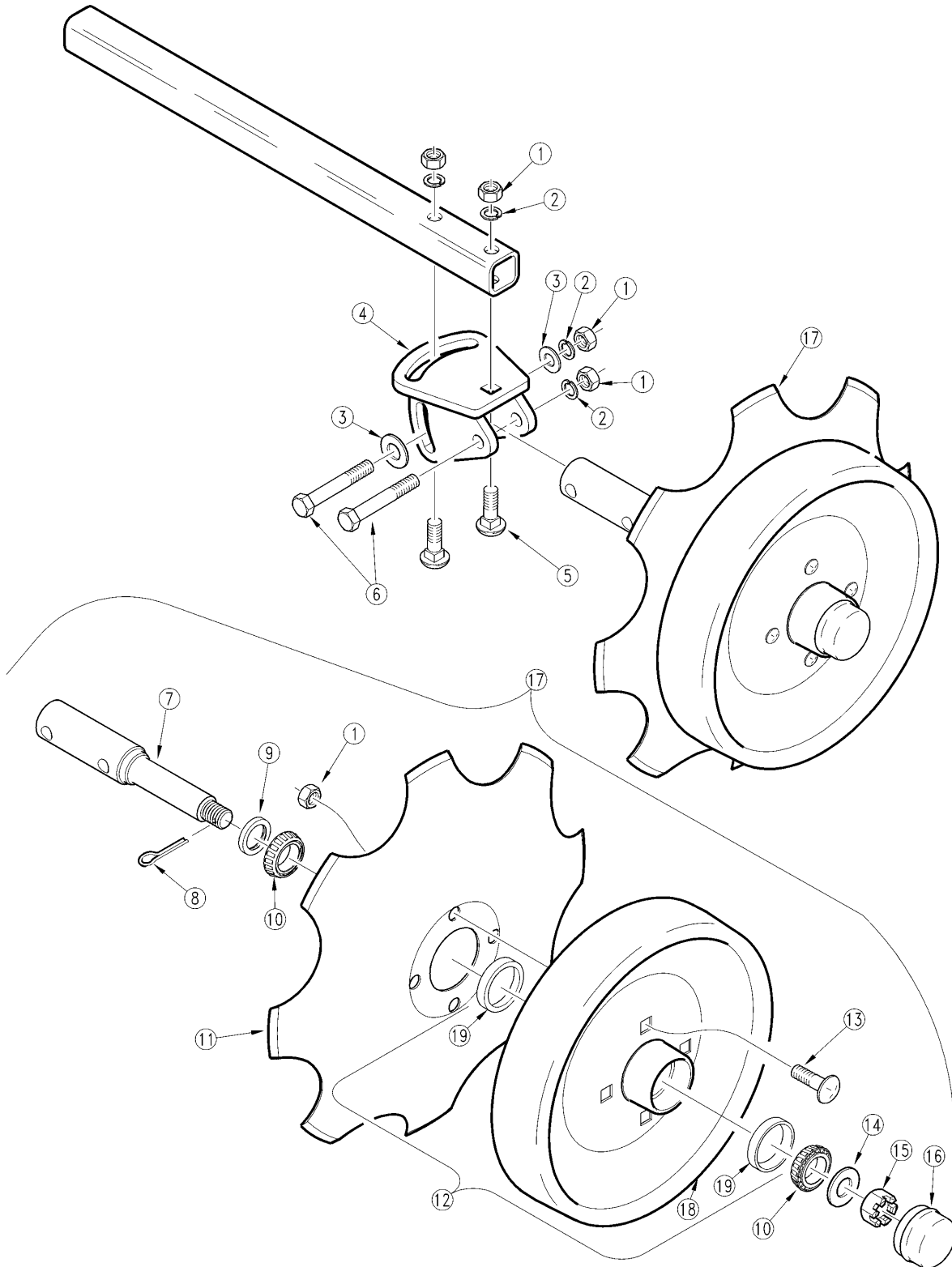
Marker Assembly

(Applies to CPH12 (1994+) only)

Ref	Part No.	Part Description	Comments	Revision
	dwg24482	Image No.		
1.	811-169C	EL 9/16MJIC 9/16FJIC		
2.	811-170C	AD 9/16MORB 9/16MJIC		
3.	802-318C	HHCS 3/8-16X5 GR5		
4.	804-013C	WASHER LOCK SPRING 3/8 PLT		
5.	803-014C	NUT HEX 3/8-16 PLT		
6.	113-538H	MARKER MOUNTING BRACKET WLMT		
7.	806-008C	U-BOLT 5/8-11 X 4 X 5 1/4		
8.	804-022C	WASHER LOCK SPRING 5/8 PLT		
9.	803-021C	NUT HEX 5/8-11 PLT		
10.	804-035C	WASHER FLAT 1 1/4 USS PLT		
11.	805-060C	PIN COTTER 7/32 X 2		
12.	890-340C	BUSH1 1/2ODX1 1/4IDX1 1/4LG GG		
13.	802-099C	HHCS 1/2-13X3 1/4 GR5		
14.	113-534H	MARKER HINGE WELDMENT		
15.	803-147C	NUT HEX NYLOCK 1/2-13		
16.	803-011C	NUT LOCK 5/16-18 PLT		
17.	800-001C	GREASE ZERK STRAIGHT 1/4-28		
18.	805-187C	PIN CLEVIS 1 X 2 1/4 GR5 PLT		
19.	113-539H	MARKER PIVOT PIN WLMT		
20.	810-269C	CYL 2X14X1.12 ROD (TIE ROD)		
21.	113-546D	MARKER LINK ARM		
22.	890-005C	BUSHING CYL 1 1/4 X 1 X 1		
23.	113-536H	MARKER ARM WELDMENT		
24.	816-170C	RD BUMP STOP 2 X 1 X 1/2-13		
25.	802-130C	HHCS 1/2-13X2 1/2 GR5		
26.	806-004C	U-BOLT 3/8-16 X 2 X 2 3/4		
27.	803-078C	NUT LOCK 3/8-16 NYLON INSERT		
28.	113-548D	MARKER DISC MOUNTING TUBE		
29.	802-012C	HHCS 5/16-18X1 1/2 GR5		
30.	818-579C	DECAL WARNING PINCH/SHEAR HAZ		
31.	818-580C	DECAL WARNING OVERHEAD MKR HAZ		
32.	113-535H	MARKER CYLINDER CHANNEL WLMT		
33.	800-150C	CABLE TIE 22.2 LONG REL.		
34.	805-058C	PIN COTTER 3/16 X 2		
35.	804-028C	WASHER FLAT 1 USS PLT		
36.	804-015C	WASHER LOCK SPRING 1/2 PLT		
37.	818-229C	DECAL AMBER REFLECTOR		
38.	804-036C	WASHER FLAT 5/16 SAE PLT		

Marker Disk Assembly

(Applies to CPH12 (1994+) only)



13993

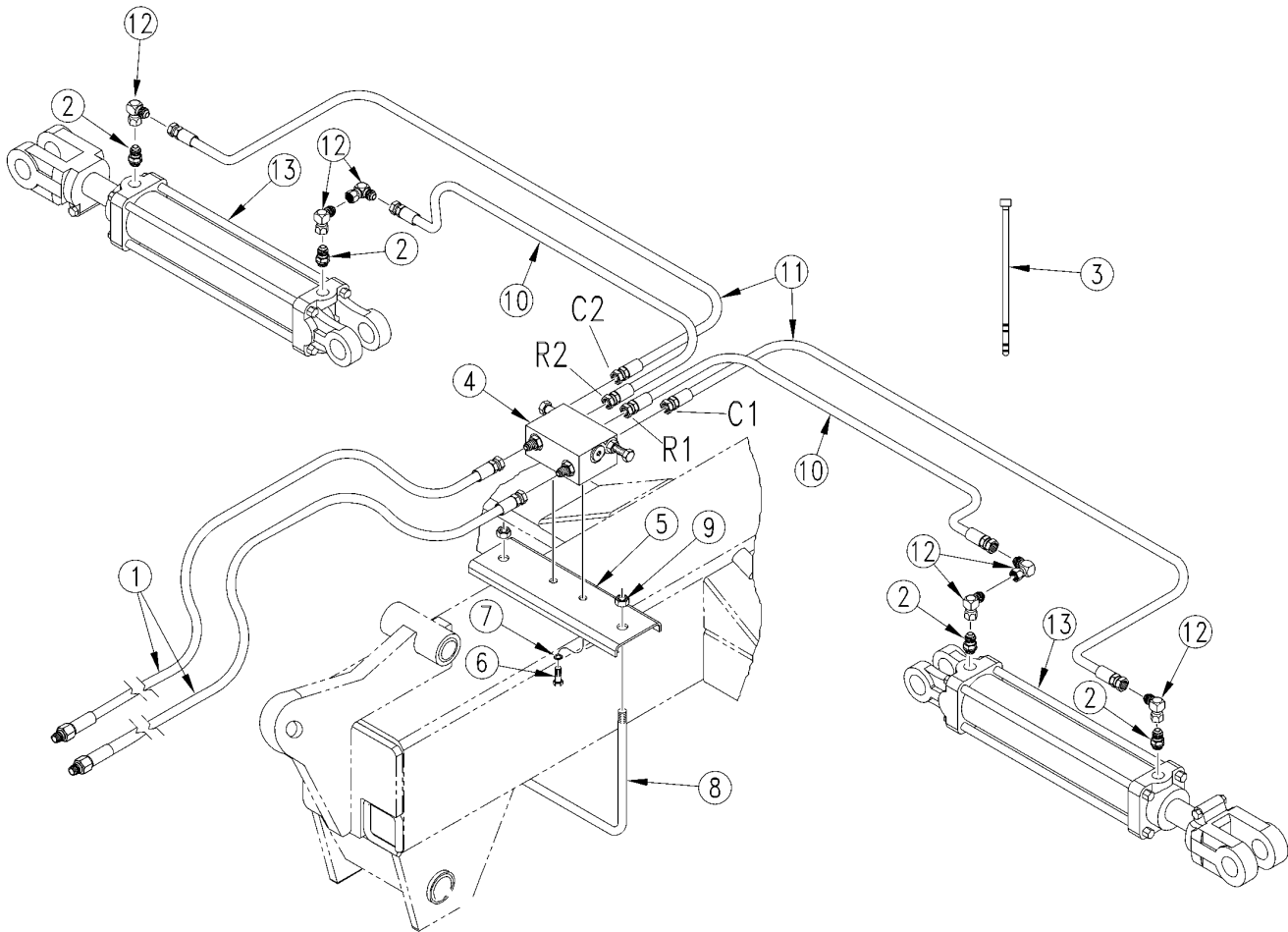
Marker Disk Assembly

(Applies to CPH12 (1994+) only)

Ref	Part No.	Part Description	Comments	Revision
	dwg13993	Image No.		
1.	803-020C	NUT HEX 1/2-13 PLT		
2.	804-015C	WASHER LOCK SPRING 1/2 PLT		
3.	804-016C	WASHER FLAT 1/2 SAE PLT		
4.	113-537H	MARKER DISC ADJUSTMENT WLMT		
5.	802-440C	RHSNB 1/2-13X2 3/4 GR5		
6.	802-039C	HHCS 1/2-13X3 GR5		
7.	113-547D	MARKER DISC SPINDLE		
8.	805-045C	PIN COTTER 5/32 X 1 1/4 LG		
9.	816-014C	TINE GAUGE WHEEL HUB SEAL		
10.	822-030C	BRG CONE 1.00ID L44643		
11.	820-094C	16 4-BOLT NOTCHED MARKER DISK		
12.	113-548V	NO-TILL MARKER HUB AND CUP ASY		
13.	802-214C	RHSNB 1/2-13X1 1/4 GR5		
14.	804-025C	WASHER FLAT 3/4 SAE PLT		
15.	803-053C	NUT HEX SLOTTED 3/4-16		
16.	890-068C	RPBY 890-614C		
17.	113-547S	NO-TILL MARKER DISK HUB ASY		
18.	113-519D	CAST MARKER DISK DPTH RING		
19.	822-080C	BRG CUP 1.98OD L44610		

Marker Hydraulics

(Applies to CPH12 (1994+) only)



24483

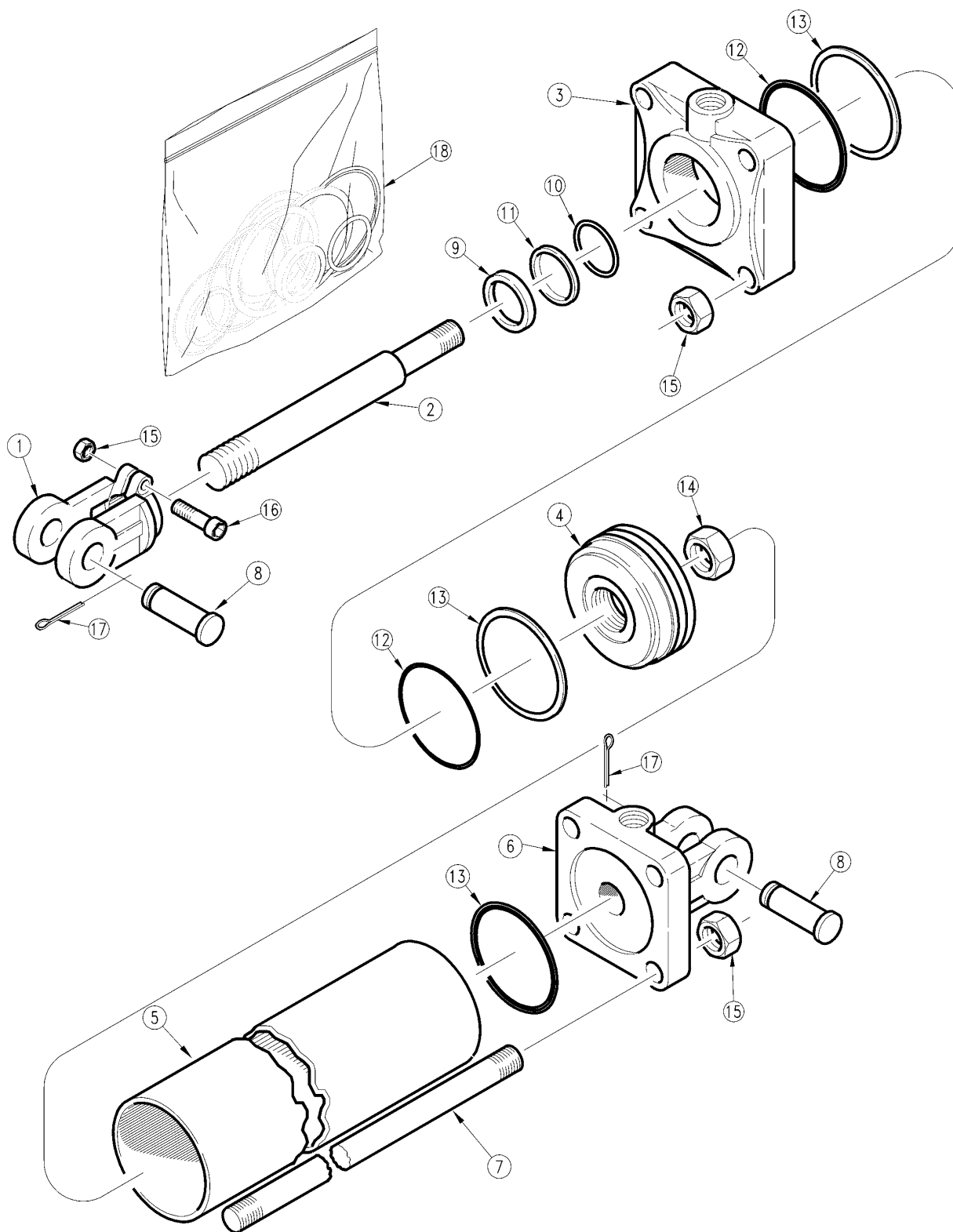
Marker Hydraulics

(Applies to CPH12 (1994+) only)

Ref	Part No.	Part Description	Comments	Revision
	dwg24483	Image No.		
1.	811-515C	HH1/2R2 150 3/4FJIC 1/2MNPT		
2.	811-170C	AD 9/16MORB 9/16MJIC		
3.	800-035C	CABLE TIE 28 LONG		
4.	810-197C	VALVE,SEQUENCE SHOEMAKER		
5.	148-629D	1000 MARKER SEQUENCE VALVE MNT		
6.	802-017C	HHCS 3/8-16X1 GR5		
7.	804-013C	WASHER LOCK SPRING 3/8 PLT		
8.	806-038C	U-BOLT 1/2-13 X 8 1/16 X9 1038		
9.	803-178C	NUT NYLOCK JAM NUT 1/2-13		
10.	811-180C	HH1/4R1 057 9/16FJIC		
11.	811-518C	HH1/4R1 070 9/16FJIC		
12.	811-169C	EL 9/16MJIC 9/16FJIC		
13.	810-269C	CYL 2X14X1.12 ROD (TIE ROD)		

Marker Hydraulic Cylinder (810-269C)

(Applies to CPH12 (1994+) only)



Marker Hydraulic Cylinder (810-269C)

(Applies to CPH12 (1994+) only)

Ref	Part No.	Part Description	Comments	Revision
	dwg14699	Image No.		
1.	1M6006	MW ROD CLEVIS		
2.	2M2320	MW ROD F/ 2 X 14 DA CYLINDER		
3.	3M2310	HEAD		
4.	4M2102	RPBY 4M2108		
5.	5M2122	MW TUBE F/ 2 X 14 DA CLINDER		
6.	6M2132	RPBY 6R0032		
7.	7M2322	MW TIE ROD F/ 2 X 14 DA CYL		
8.	2A0208	RPBY 805-124C		
9.		WIPERSEAL	Only Available in Seal Kit #18.	
10.		O-RING	Only Available in Seal Kit #18.	
11.		BACK-UP	Only Available in Seal Kit #18.	
12.		O-RING	Only Available in Seal Kit #18.	
13.		BACK-UP	Only Available in Seal Kit #18.	
14.	2A0022	RPBY 803-114C		
15.	2A0012	RPBY 803-234C		
16.	2A0006	RPBY 802-023C		
17.	2A0134	COTTER PIN		
18.	810-310C	SEAL KIT MW 5A2104		



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