

# SUNMASTER

PARTS BOOK

## 1222 and 1622 Series

High Capacity  
Sunflower, Corn and Milo  
Harvesting Attachment



**Sheyenne Tooling & Mfg.**

Sheyenne Tooling & Manufacturing  
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# Sheyenne SUNMASTER HEADER



Made in  
the USA

**High Capacity  
Sunflower, Corn & Milo  
Harvesting Attachment**

**Available In:  
8, 12 and 16 Row With 30" Spacing  
12 and 16 Row with 22" Spacing &  
12, 16, 18 and 24 Row With 20" Spacing**

Custom Painting Available



**Harvest 6 – 30%  
more crop from the  
same field !**



**Significantly reduce  
shatter losses**

**Superior choice for lodged or  
excessively dry sunflowers**



**Minimize ear losses  
in lodged corn**



**Cuts the stalks.  
Can chop and spread  
or drop for stover**

**Improved conditions for spring  
planting and weed control**



**Unique design picks up  
downed milo, but leaves  
taller standing stubble**





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22" Manual

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**1.1.** Using the parts catalog  
 The drawings indicate item numbers relevant descriptions, the part numbers, and number of parts for 8,-12,-16 row units respectively , so the parts going to be ordered can easily be identified.

**1.2. How to order service parts**

Please give the following data on ordering parts :

- Production year of the header, if known
- Serial number of the header (from owners manual)
- Description, part numbers and quantity of ordered parts (from this manual)

**Note:** Please follow the above directions when ordering, it helps us send the correct part(s).

**Information:** The Sunmaster header was originally engineered in Europe, using the Metric system. The header is still primarily Metric, including the hardware. Below find two tables that compare the Metric system and the English system of grading bolts and screws. The last column of the Metric table has useful *equivalent* information comparing the two systems.

ISO Property Class Markings for Steel Metric Bolts and Screws				
Grade Marking	Specification	Size	Tensile Strength MPa	Equivalent To English Fasteners
4.6 4.8	Class 4.6	M5 & >	400	SAE Grade 1
	Class 4.6	up to M16	420	
5.8	Class 5.8	M5 to M24	520	SAE Grade 2
8.8	Class 8.8	up to M16	800	SAE Grade 5
		over M16	830	
10.9	Class 10.9	up to M36	1040	SAE Grade 8

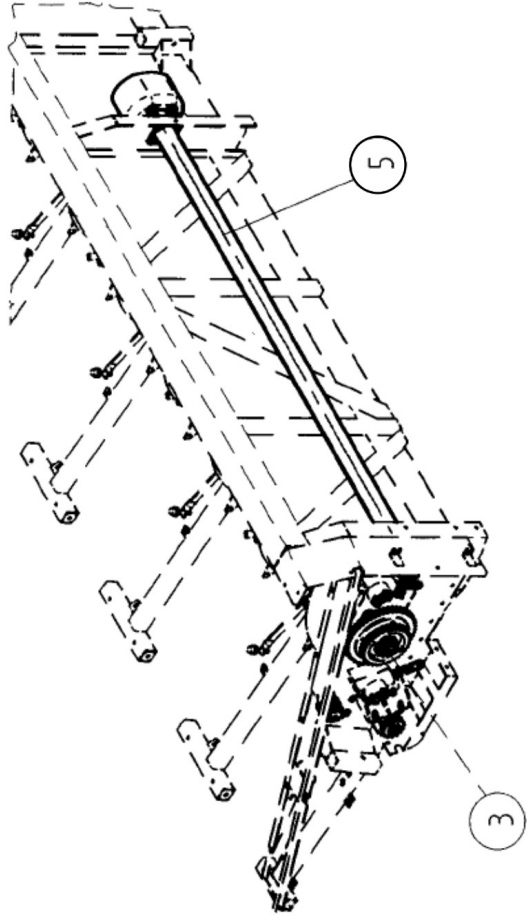
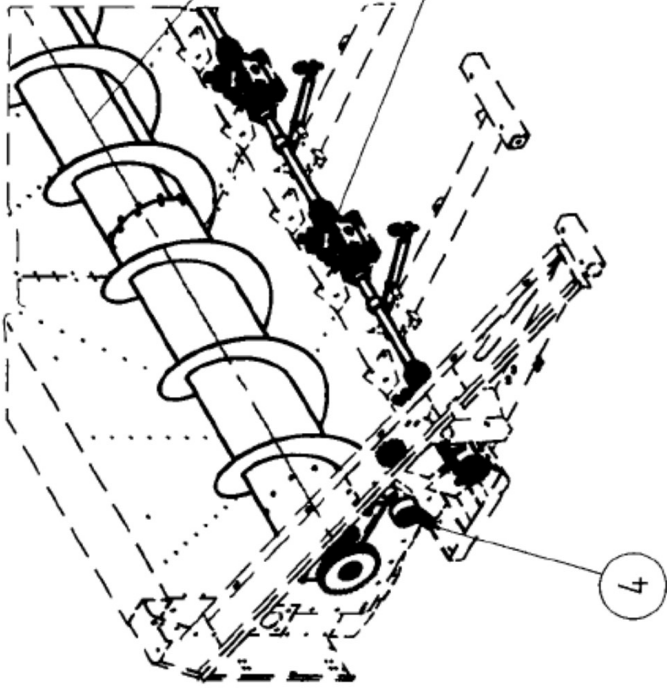
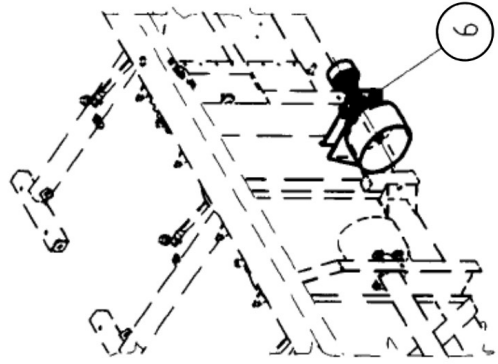
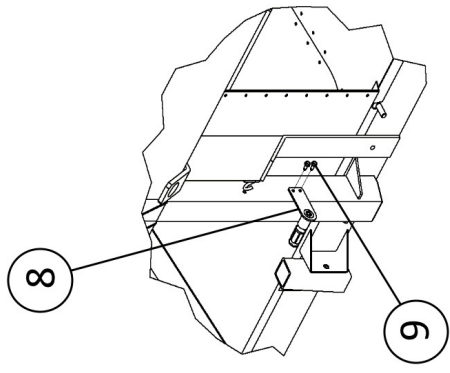
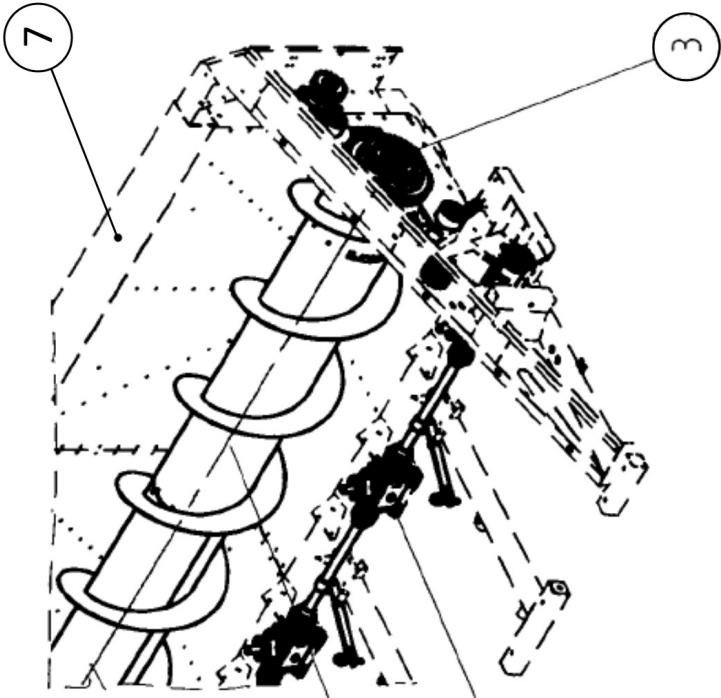
Fig 1. Common strength grades for Metric fasteners.

Grade Designation	Material and Treatment	Tensile Strength ksi Min	Grade Identification Marking
SAE Gr. 2	low or medium carbon steel, cold worked	74	None Specified
SAE Gr. 5	medium carbon steel; the product is quenched and tempered	120 105	⋄
SAE Gr. 8	medium carbon alloy steel; the product is quenched and tempered	150	⋄

Fig 2. Common strength grades for English fasteners.

Because of it's European roots you may still find some terms or words in this manual that have been translated a little differently.





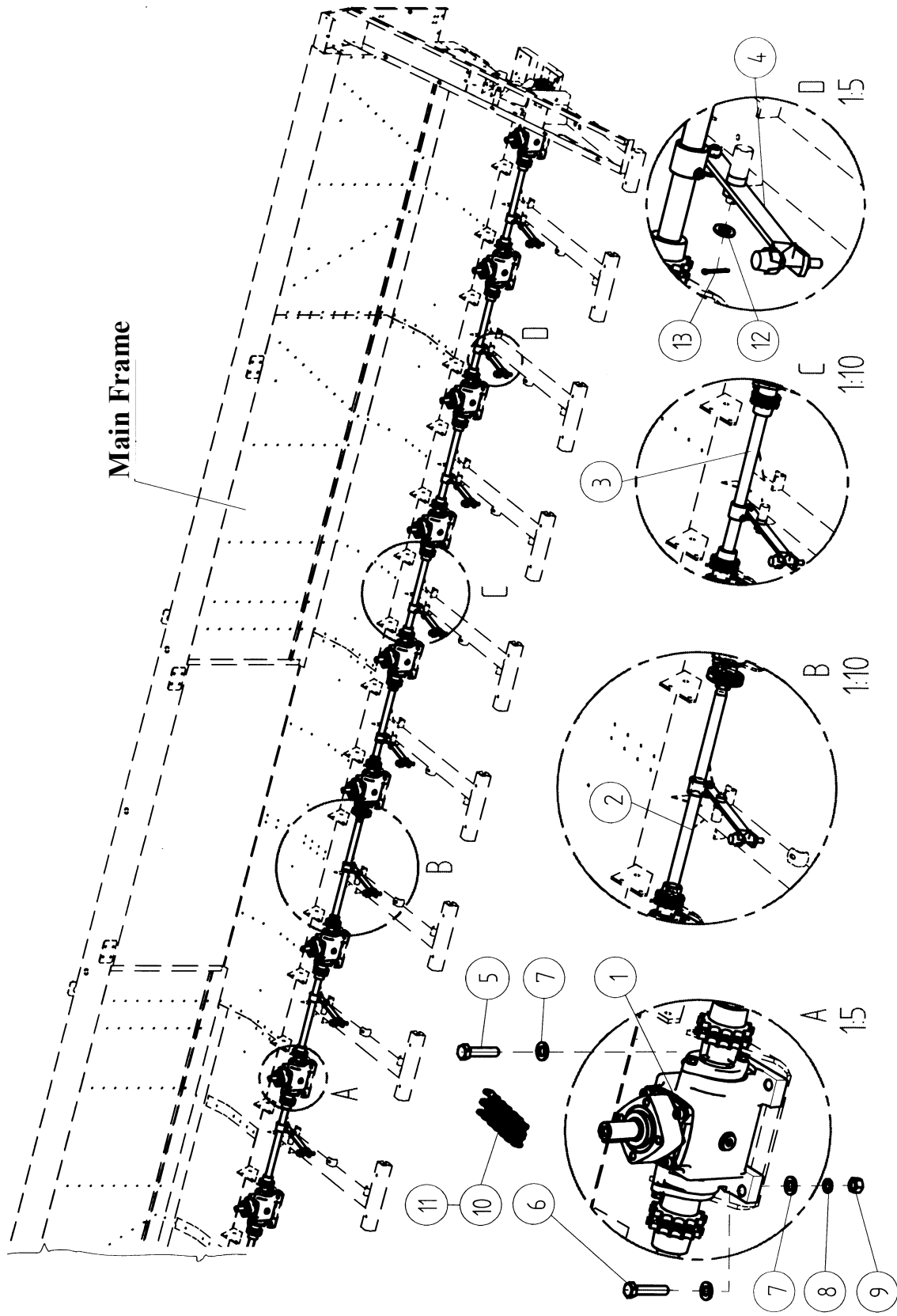
## Major Component Systems

# Major Component Systems

001

Item #	Description	Part #	Pieces per Header by model #		Remarks
			#1222	#1622	
1	Lower drive assy, 1222	01-015-473	1		
1	Lower drive assy, 1622			1	
2	Auger assy, Cross - 1222	01-015-687	1		
2	Auger assy, Cross - 1622			1	
3	End drive assy, single, LH, 1222	01-001-833	1		
3	End drive assy, LH, 1622			1	
4	End drive assy, single, RH, 1222	01-001-829	1		
4	End drive assy, RH, 1622			1	
5	Drive shaft assy, 12 - 2010 and prior	01-001-832	1		
5	Drive shaft assy, 12 - 2011 and after	01-015-645			
5	Drive shaft assy, 16 - 2010 and prior	01-001-834		2	
5	Drive shaft assy, 16- 2011 and after				
6	JD - 9600 drive kit, axle support *	01-016-366	1	1	only for JD-9600 combine
7	Frame welded, II - 1222	02-015-670	1		
7	Frame welded, II - 1622			1	
7a	Frame subweld, I - 1222	02-015-673	1		
7a	Frame subweld, I - 1622			1	
8	Kit, PTO holder	01-002-004	-	-	Kit, parts 8 & 9
8	Hanger w/a, PTO	12-004-090	1	2	
9	Screw, thd cutting, hex hd, 5/16 x 3/4	900-17615	2	4	

\* See pages 38 & 39



03-004-161

01-016-370

**Gearbox Assembly**

**Drive Shaft (Middle)**

**Transmission Shaft**

**Arm Assembly**

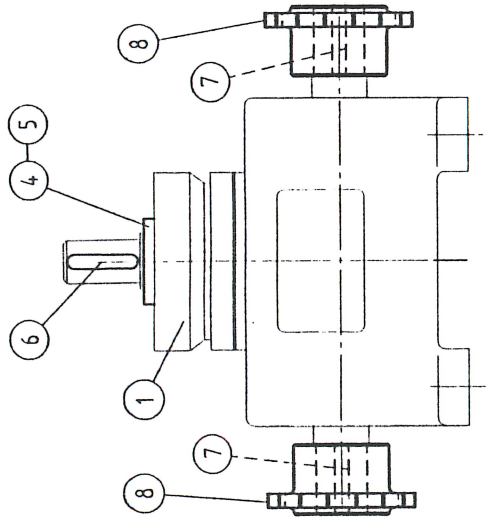


## Lower Drive Assembly

002

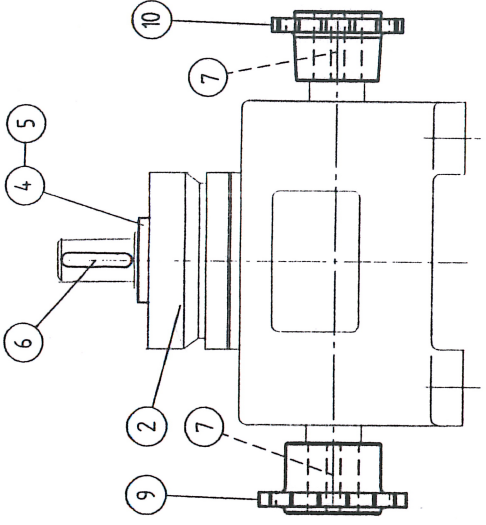
Item #	Description	Part #	Pieces per Header by model #		Remarks
			#1222	#1622	
	Lower drive assy, 12	01-015-473	1		
	Lower drive assy, 16			1	
1	Gearbox assy	03-004-161	12	10	
2	Drive shaft assy (middle)	01-015-480	1	1	
3	Lower transmission shaft assy	01-015-478	10	10	
4	Arm assy	01-016-370	11	15	
5	Screw, hex cap, Grade 8.8	M12x50	24	32	
6	Screw, hex cap, Grade 8.8	M12x55	24	32	
7	Washer, flat	M12FW	48	64	
8	Washer, lock	M12LW	24	32	
9	Nut, hex	M12HN	48	64	
10a	Chain, double roller	10B2-13	23	21	13 link
10b	Chain, double roller	10B2-15	0	10	15 link
11	Chain connector link	CL10B2	25	31	Double
12	Washer, flat	M14FW	11	15	
13	Cotter pin, 1/8 x 1"	900-23025 *	11	16	

\* Sheyenne Part No.



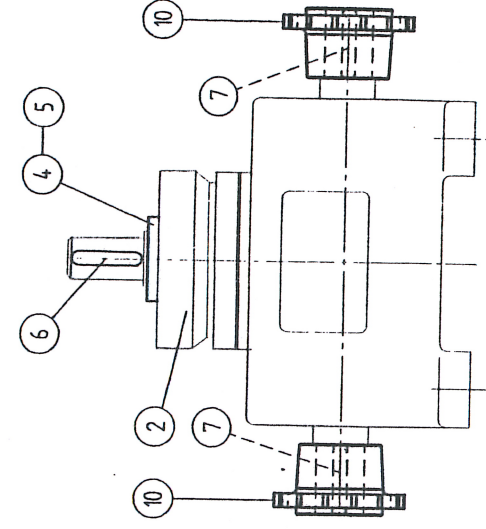
Outer Gearbox

03-024-078



Intermediate Gearbox

03-024-079



Inner Gearbox

03-004-161

# Sprockets, Shafts & Gearboxes

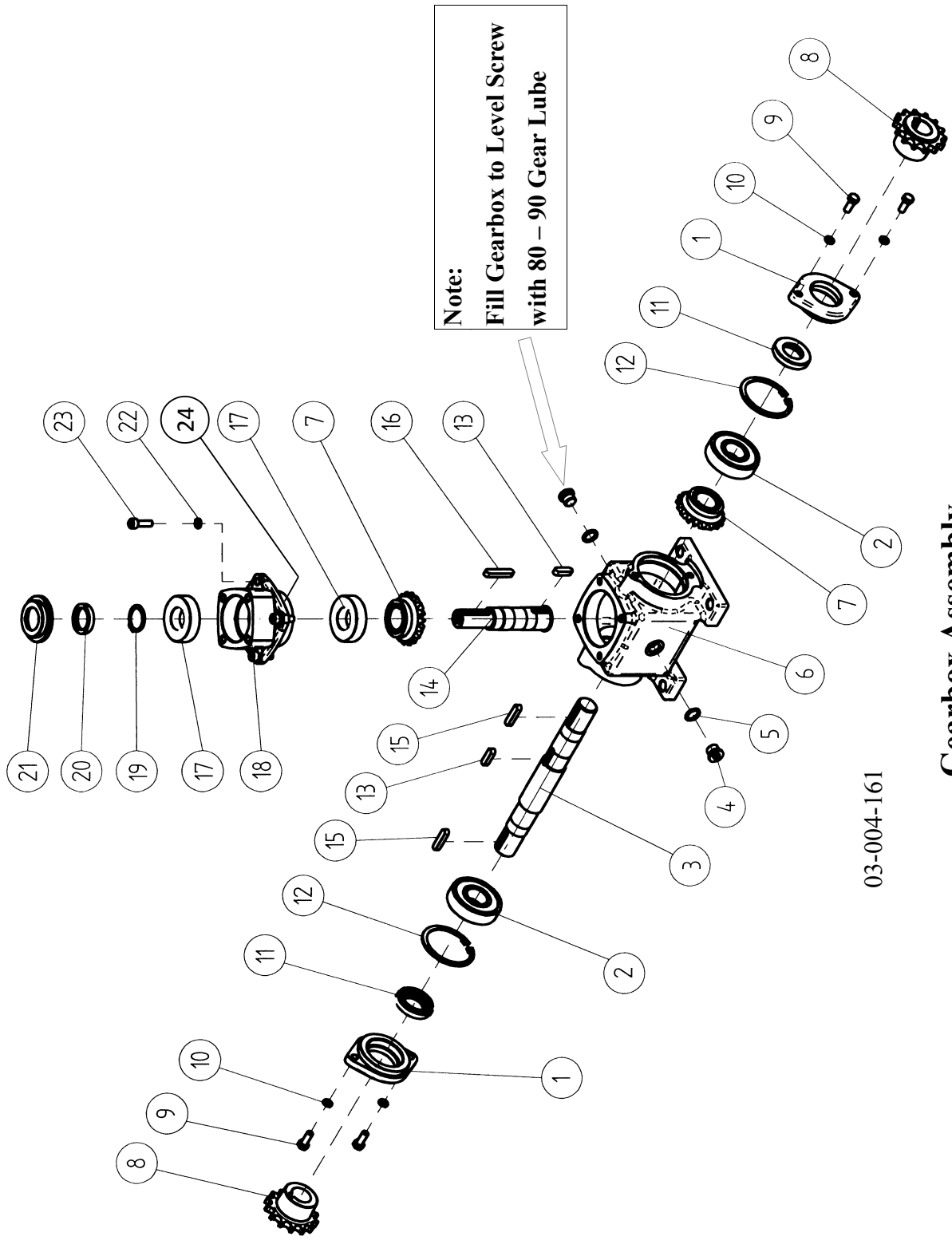
## Sprockets, Shafts & Gearboxes

003

Item #	Description	Part #	Pieces per Header by model #		Remarks
			#1222	#1622	
	Outer gearbox assy (with sprockets)	03-024-078	0	4	
	Intermediate gearbox assy ( " " )	03-024-079	0	2	
	Inner gearbox assy (with sprockets)	03-004-161	12	10	
1	Outer gearbox assy (w/out sprockets)	03-024-081	-	-	Inactive part number
2	Gearbox assembly (w/out sprockets)	2-600-232			See note *
3	<i>No item on drawing</i>				
4	Cover, seal	13-016-496	12	10	
5	Seal	Z30x40x7	12	10	
6	Shaft, 8x7x45	30-004-227	12	10	See note *
7	Shaft, 8x7x36	30-004-225	12	10	See note *
	Shaft, 29,5 diameter	30-024-083	-	-	Inactive part number
8	Sprocket, 16 tooth	24-024-082W	-	-	See note *
9	Sprocket, 16 tooth	24-024-084W	-	-	Inactive part number
10	Sprocket, 14 tooth	24-005-881W	-	-	See note *

\* Service part. Limited availability





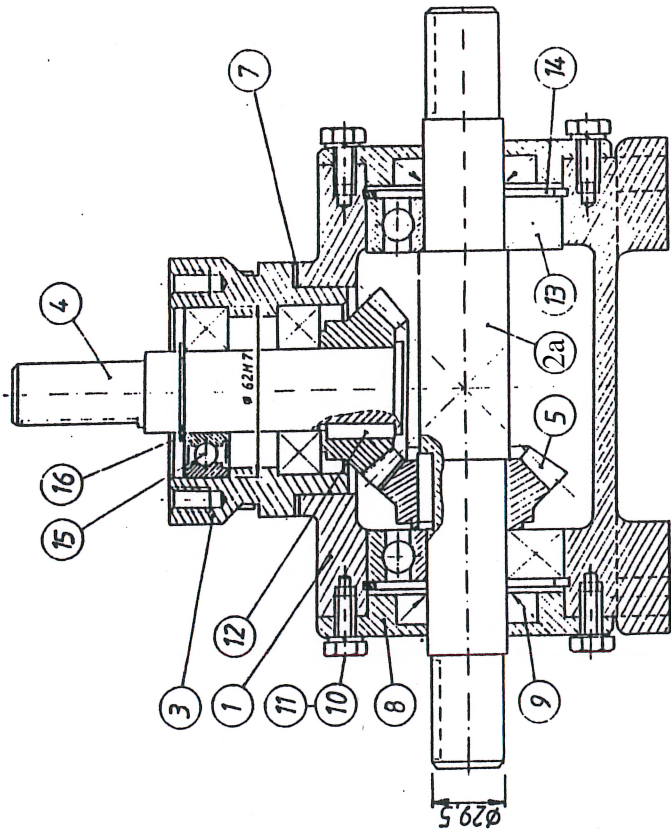
03-004-161

**Gearbox Assembly**

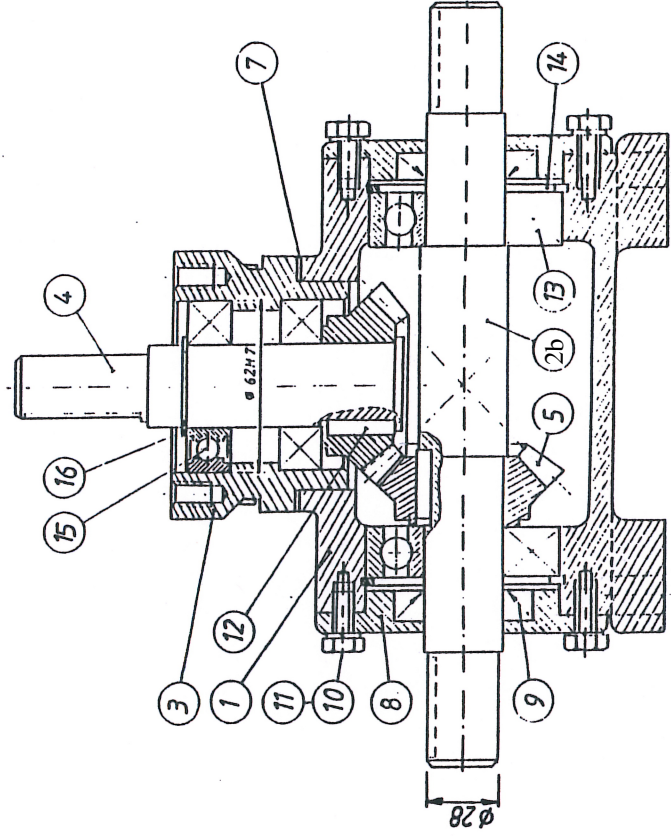
### Gearbox Assembly 03-004-161

004

Item #	Description	Part #	Pieces per header by model #		Remarks
			#1222	#1622	
1	Cover (housing), shaft	41-016-820	2	2	
2	Bearing, deep groove, ball	6306	2	2	SKF
3	Shaft, 1	2-600-239	1	1	was 30-004-225
4	Oil level plug (screw)	M16x1.5	2	2	DIN 908
5	Washer, flat	M16FW	2	2	
6	Gearbox housing	40-004-224	1	1	
7	Gear, main drive, pinion, 18 tooth	22-004-228	2	2	
8	Sprocket, 14 tooth	24-005-881W	2	2	
9	Screw, hex cap, flt hd, grade 8.8	M8x20	4	4	
10	Washer, lock	M8LW	4	4	
11	Ring, spring - gasket	Y30x52x10	2	2	
12	Ring, fastener (snap)	72MSZ231	2	2	
13	Key, 8x7x25mm	34-004-235	2	2	
14	Shaft, gearbox - vertical	30-004-227	1	1	was 2-600-243/3
15	Key, 8x7x36mm	34-004-214	2	2	
16	Key, 8x7x45mm	34-004-183	1	1	
17	Bearing, deep groove, ball	6206-2RSR	2	2	SKF was 6206-2RS1
18	Gearbox (housing) cover	40-004-226	1	1	
19	Ring, snap	30-MSZ232	1	1	
20	Seal	Z30x40x7	1	1	
21	Cover, seal	13-016-496	1	1	
22	Washer, lock	M8LW	4	4	
23	Screw, cap - hex socket hd	M8x25	4	4	
24	Gasket, cover - gearbox	63-016-371	1	1	



03-024-078 Outer gearbox



03-024-079 Intermediate gearbox  
03-004-161 Inner gearbox

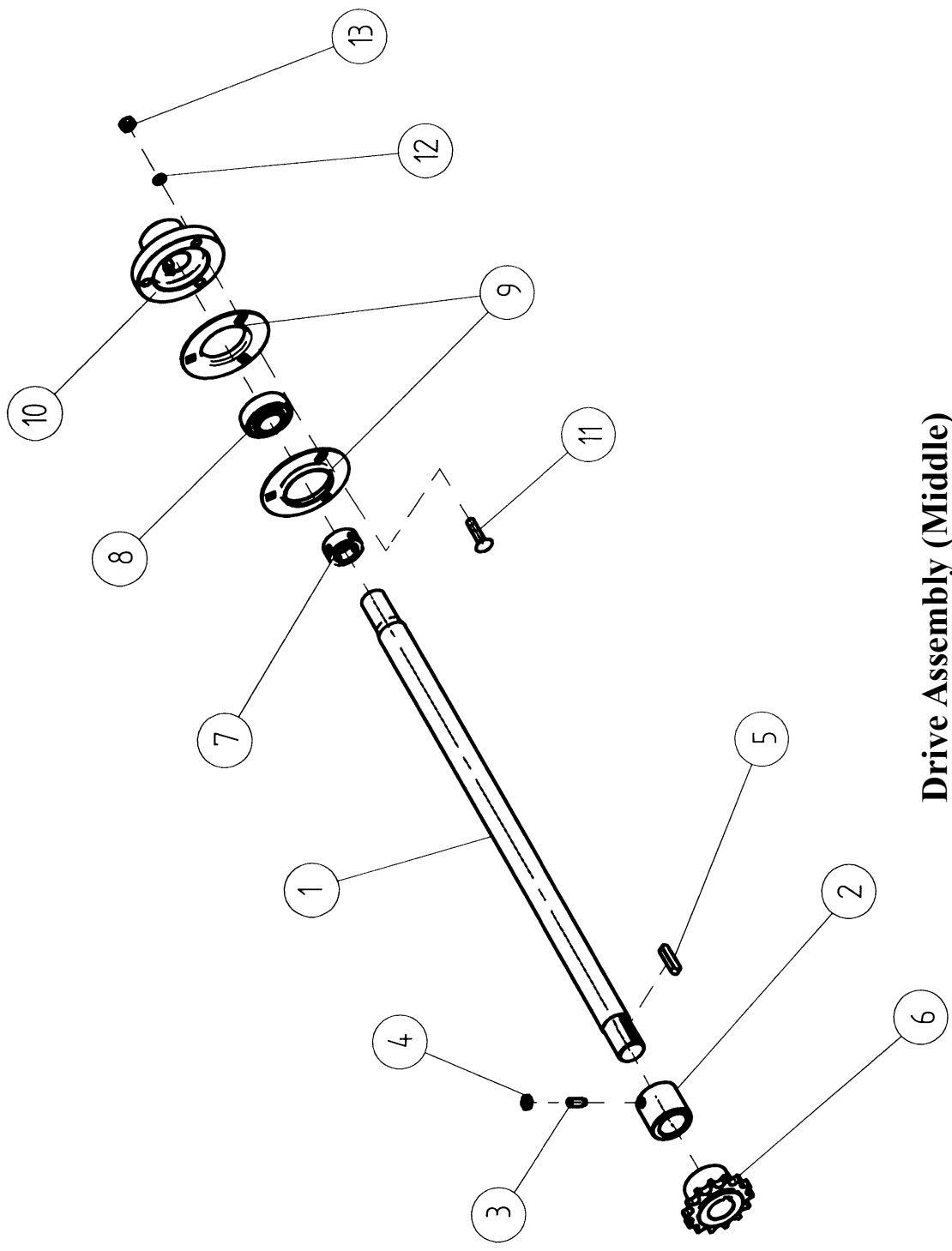
## Gearbox cross - sections



## Gearbox cross-section

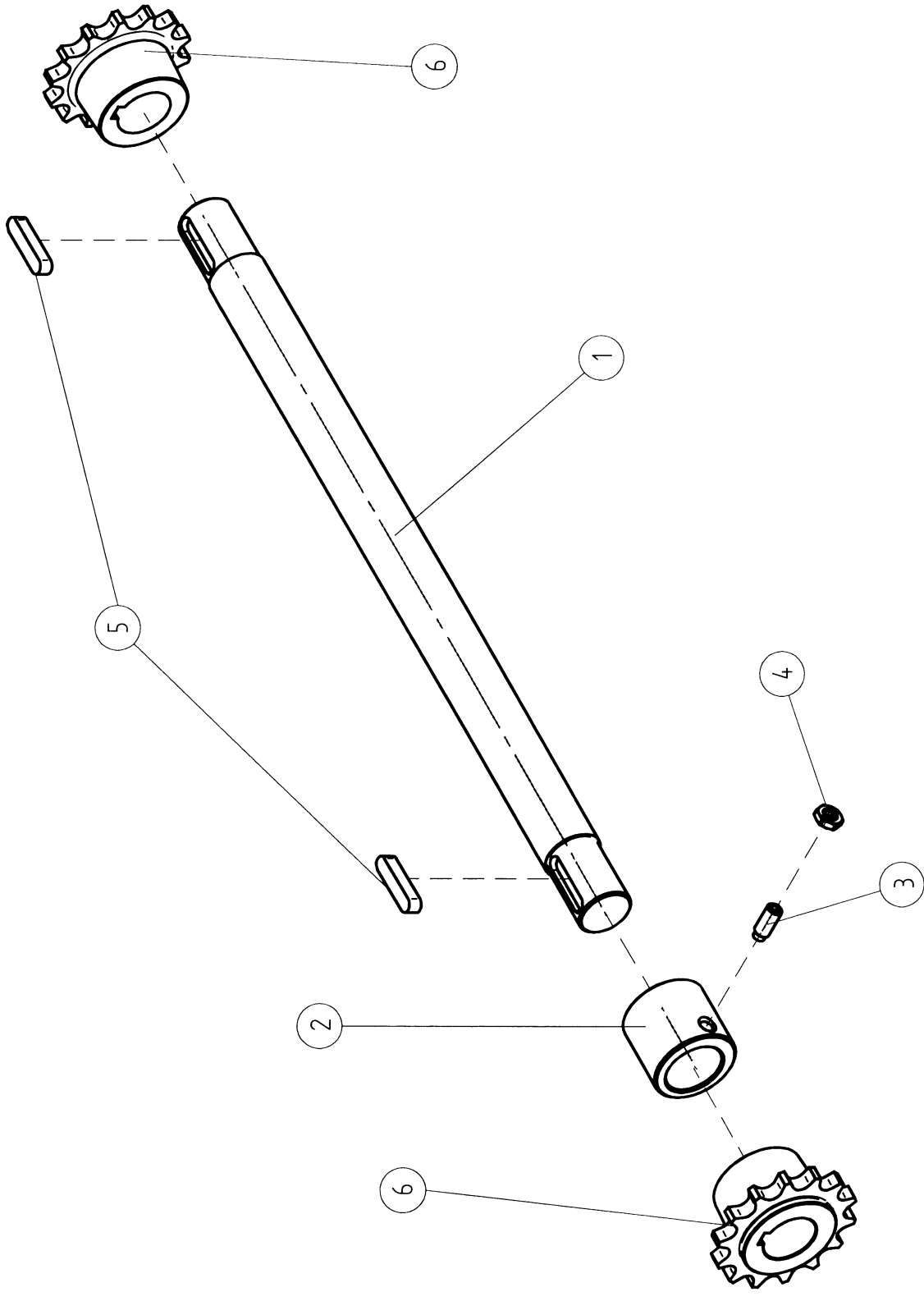
005

Item #	Description	Part #	Pieces per Gearbox		Remarks
			#1222	#1622	
	Gearbox assembly, (w/out sprockets)	03-024-081	-	-	Inactive part no. (on left)
	Gearbox assembly, (w/out sprockets)	2-600-232			Smaller shaft (on right)
			Pieces per individual gearbox		
1	Case, gearbox	2-600-238	1	1	
2a	Shaft, gearbox - horizontal	30-024-083	0	1	29,5 Diameter (metric)
2b	Shaft, gearbox - horizontal	2-600-239	1	1	28 Diameter (metric)
3	Cover, gearbox	2-600-242	1	1	STAM 40-004-226
4	Shaft, gearbox - vertical	30-004-227	1	1	WWP 2-600-243/3
5	Gear, main drive - pinion - 18 tooth	2-600-244	2	2	
6	Cover <i>(No item on drawing)</i>	2-600-251			
7	Gasket, gearbox cover	63-016-371	1	1	
8	Housing, shaft	41-016-820	2	2	
9	Gasket, gearbox	Y30x52x10	3	3	Seal
10	Screw, hex hd cap , grade 8.8	M8x20	4	4	
11	Washer, lock	M8LW	4	4	
12	Key, flat - round end - 8x7x25	34-004-235	2	2	
13	Bearing, ball - deep groove	6306	2	2	
14	Ring, fastener (snap)	72MSZ231	2	2	
15	Bearing, ball - deep groove	6206-2RSR	2	2	was 6206-2RS1
16	Ring, snap	30MSZ232	1	1	



**Drive Assembly (Middle)**

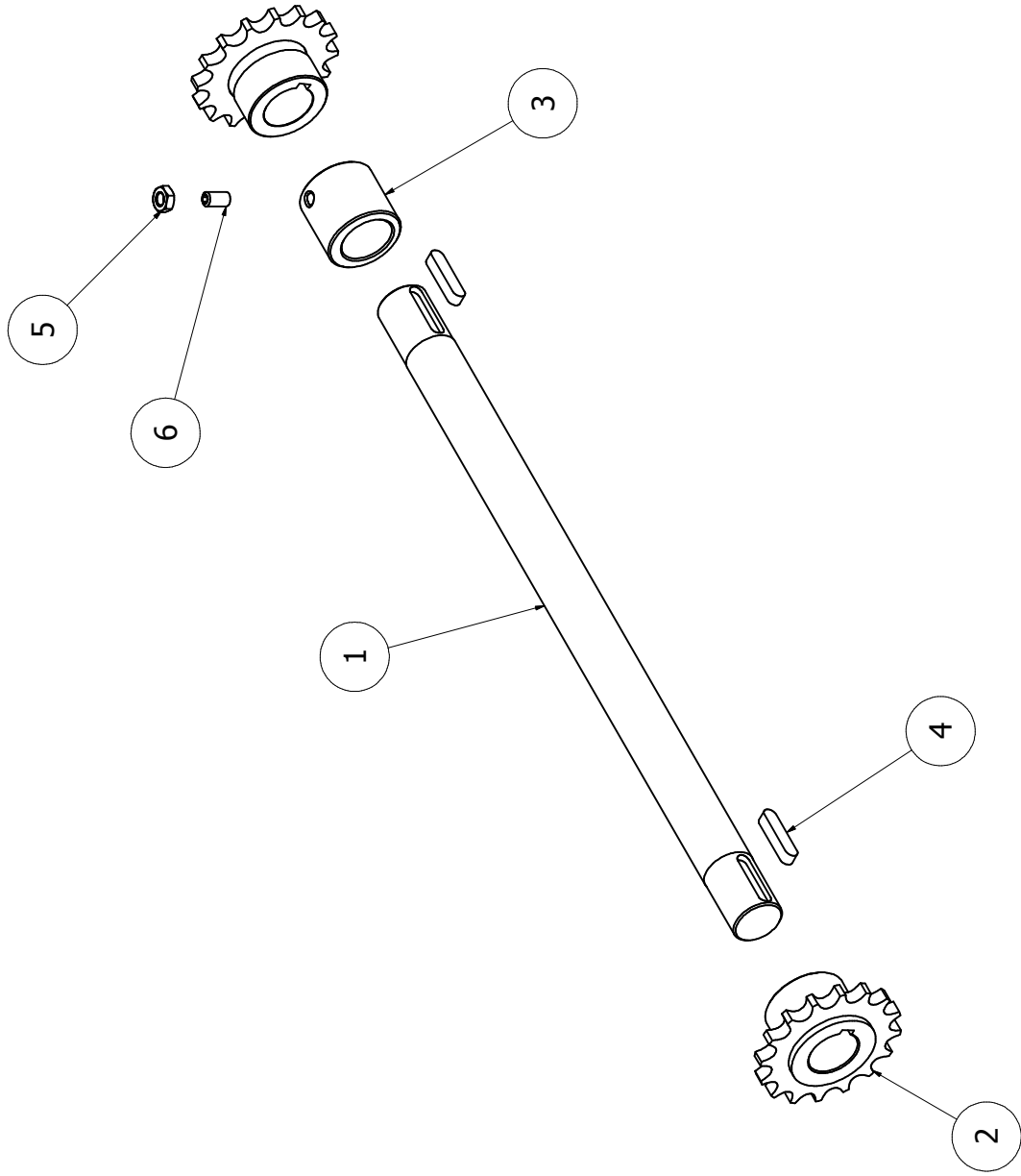




**Lower Connector Shaft**

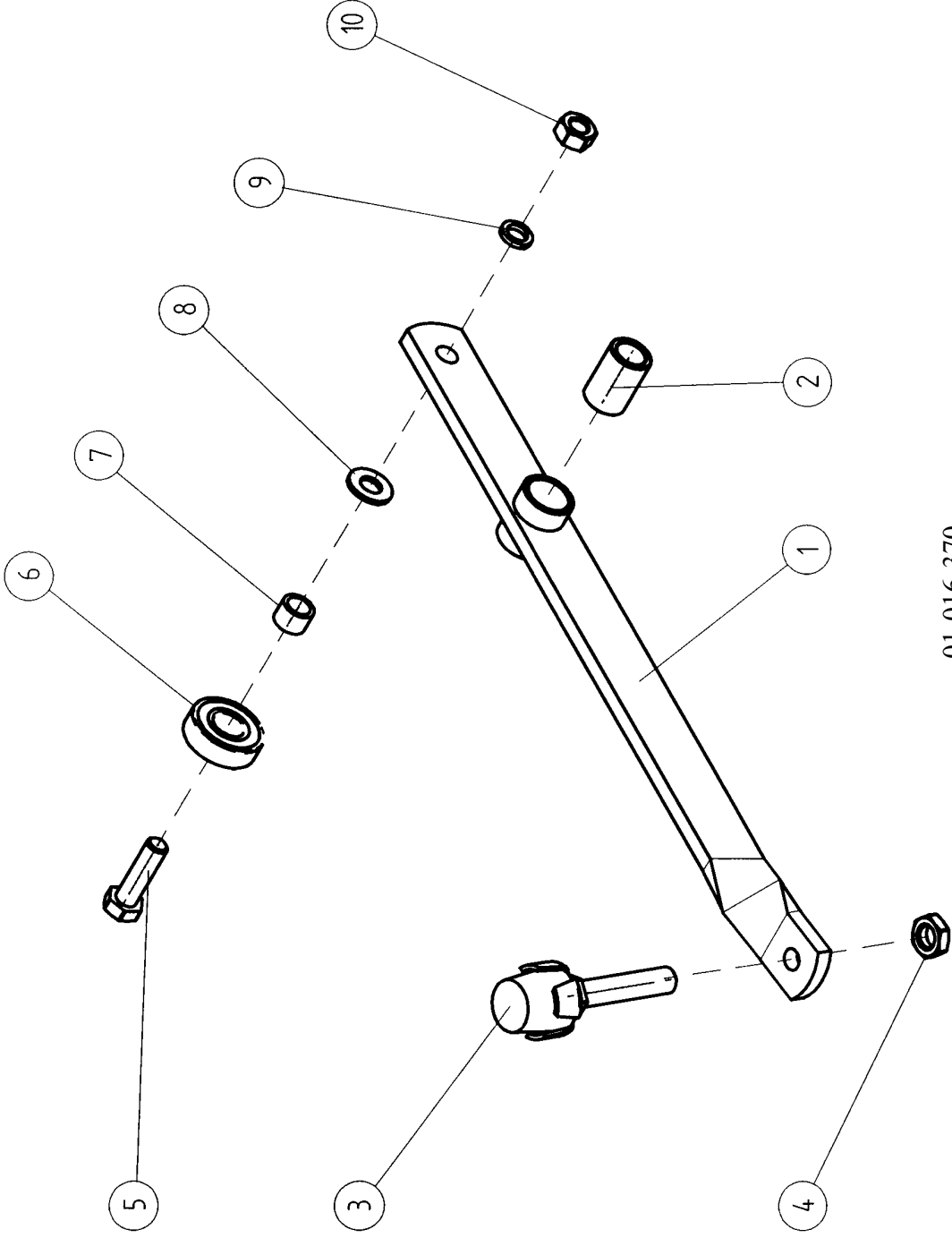






**Outer Transmission (Drive Shaft) Assy**

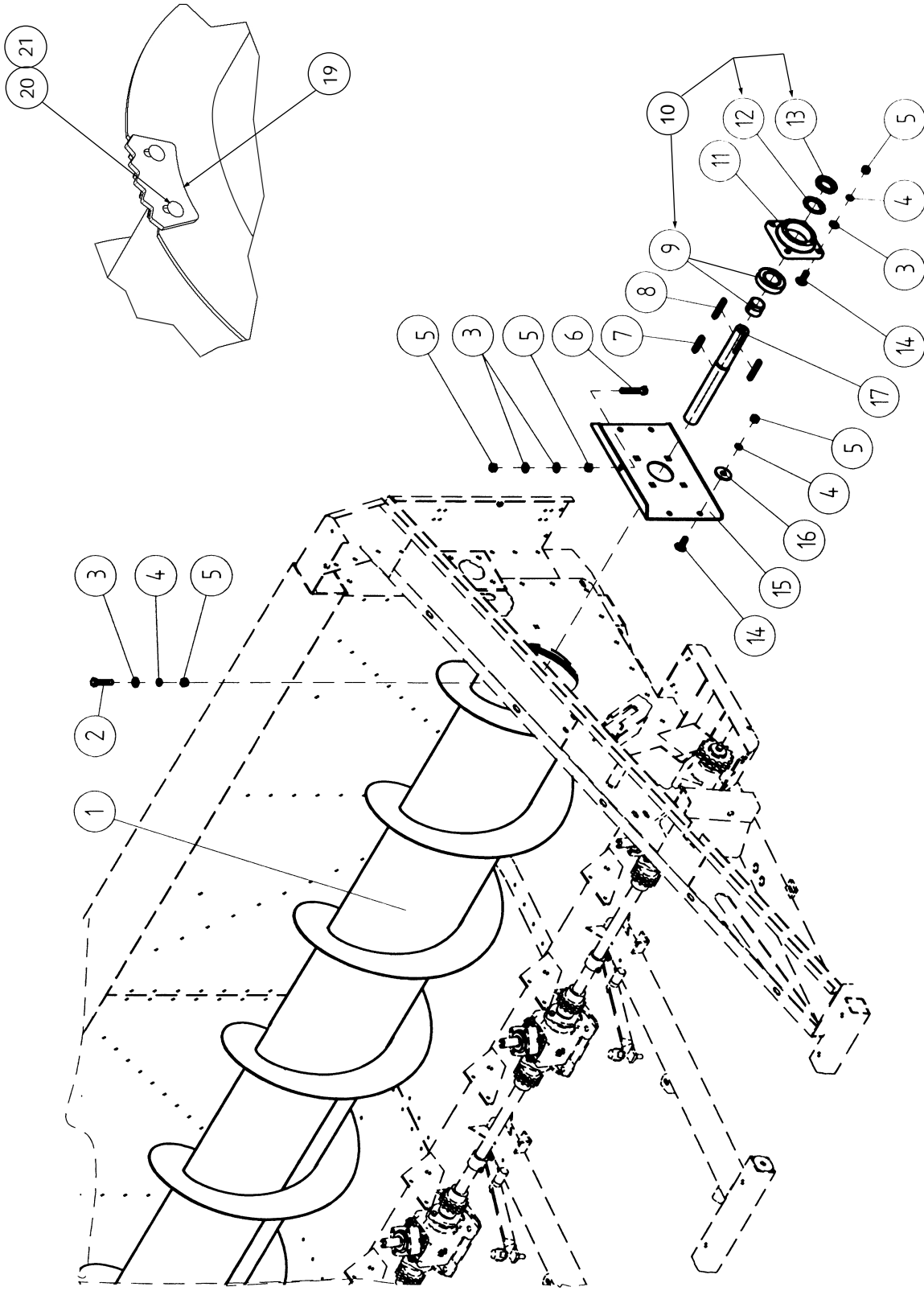




01-016-370

### Arm Assembly





**Cross Auger & Left Hand Mounting Assy**

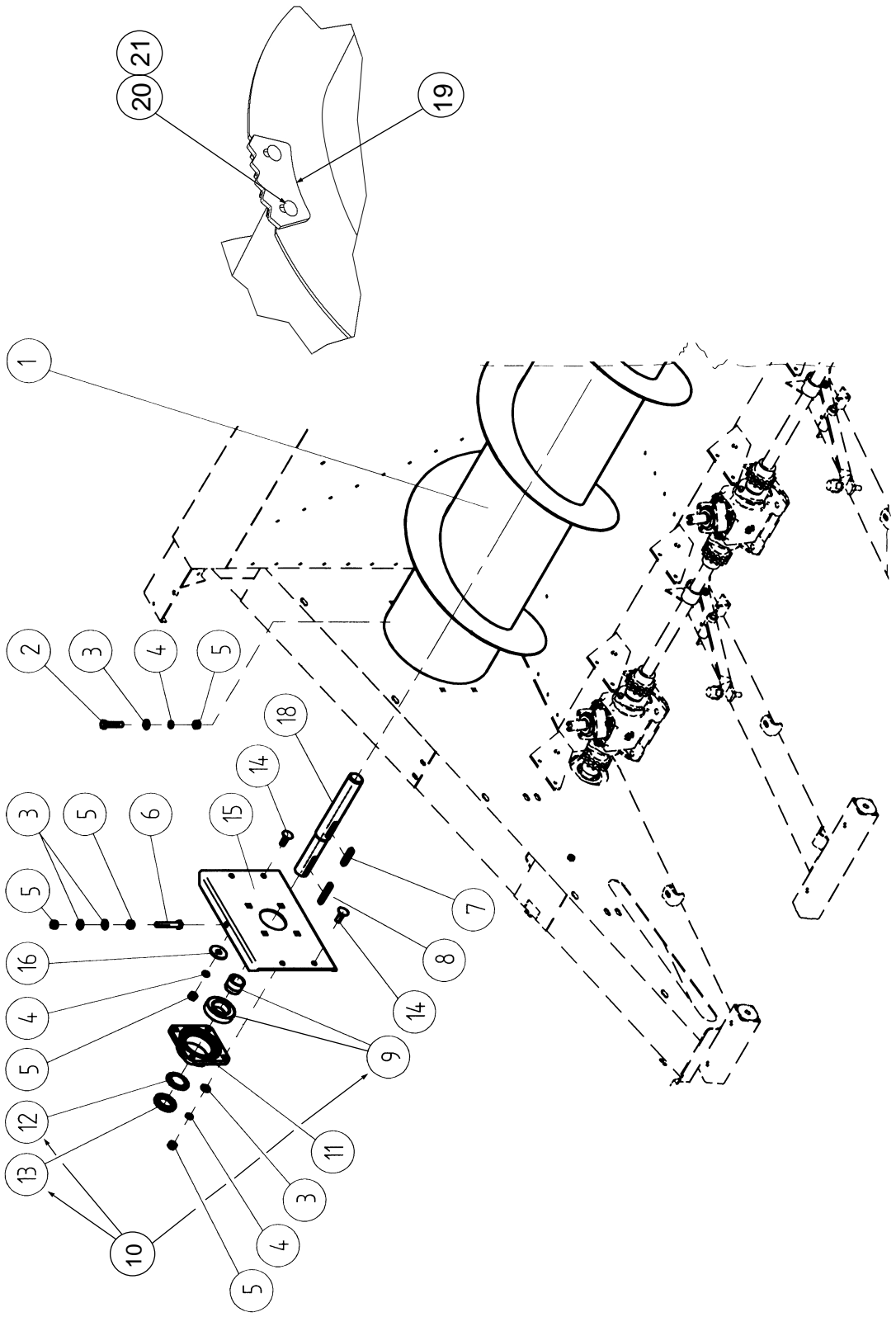


## Cross Auger & Left Hand Mounting Assy

010

Item #	Description	Part #	Pieces per header by model #		Remarks
			#1222	#1622	
1	Cross auger, welded - 1222	02-015-687	1		
1	Cross auger, welded - 1622			1	
2	Screw, hex cap, grade 8.8	M12x55	1	1	
3	Washer, flat	M12FW	7	7	
4	Washer, lock	M12LW	9	9	
5	Nut, hex grade 8.8	M12HN	11	11	
6	Screw, hex cap, grade 8.8, full thd	M12x70	1	1	
7	Key 12x8x56	34-004-168	1	1	
8	Key 10x8x70	34-010-212	2	2	
9	Y bearing w/ tapered bushing	H208	1	1	SKF (in item 10)
10	Y ball bearing assy	17262082RSR	1	1	MGM
11	Housing, bearing	FY-508	1	1	SKF
12	Washer, lock - 1 int tab - 13 ext	MB8	1	1	SKF (in item 10)
13	Nut, round - M40x1.5 x 9mm*	KM8	1	1	SKF (in item 10)
14	Bolt, carriage - grade 4.6	M12x35CB	8	8	
15	Plate	14-010-093	1	1	
16	Washer	M12	4	4	
17	Auger shaft, LH	30-016-841	1	1	
19	Paddle, tooth - feed - adjustable	17-016-901	0	0	Optional feature for 12 row
20	Bolt, carriage, 3/8NC x 1", Gr 5	900-01695	0	0	
21	Nut, hex flange, toplock, 3/8NC	900-06530	0	0	

\* 9mm = .354 inches



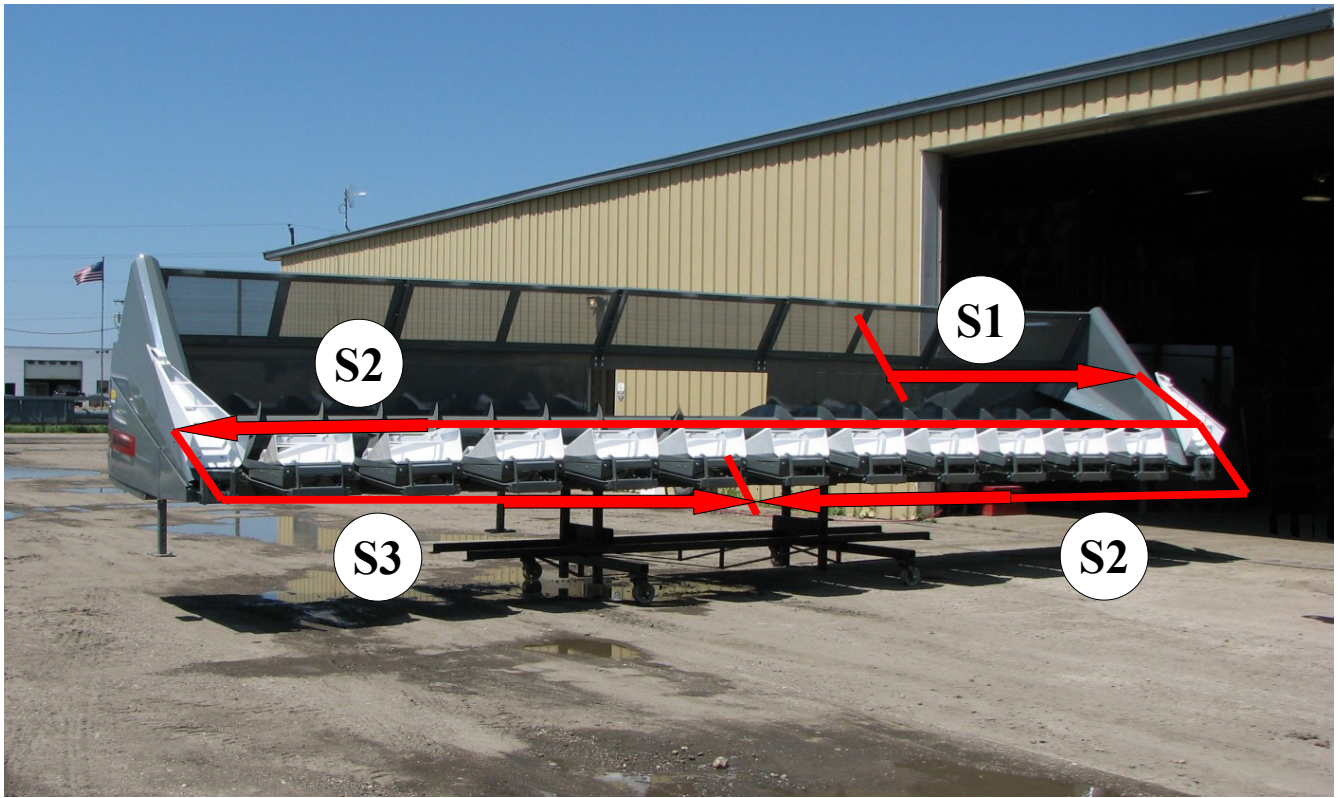
**Cross Auger and Right Hand Mounting Assy**

**Cross Auger Assembly R.H.**

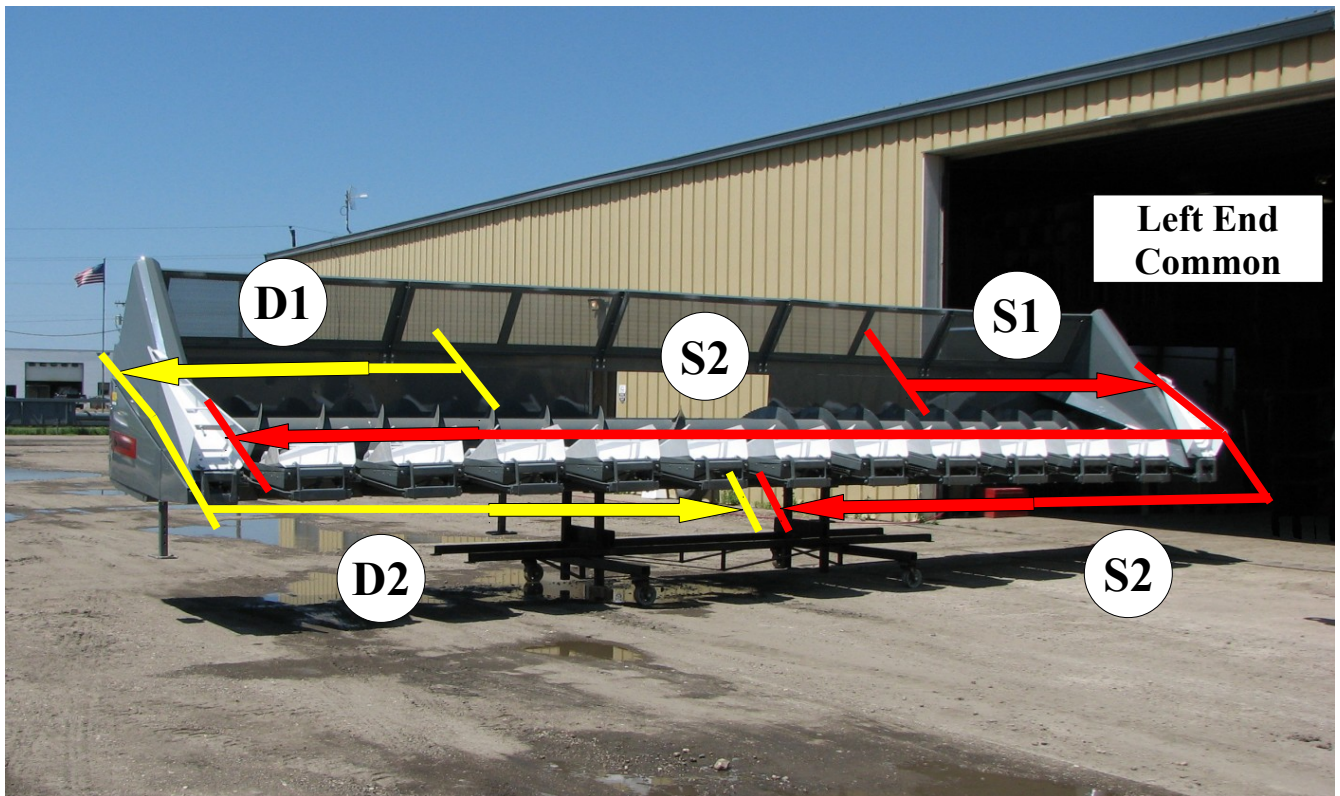
**011**

Item #	Description	Part #	Pieces per Header by model #		Remarks
			#1222	#1622	
1	Cross auger, welded - 1222	02-015-687	1		
1	Cross auger, welded - 1622			1	
2	Screw, hex cap, grade 8.8	M12x55	1	1	
3	Washer, flat	M12FW	7	7	
4	Washer, lock	M12LW	9	9	
5	Nut, hex grade 8.8	M12HN	11	11	
6	Screw, hex cap, grade 8.8, full thd	M12x70	1	1	
7	Key 12x8x56	34-004-168	1	1	
8	Key 10x8x70	34-010-212	1	1	
9	Y bearing w/ tapered bushing	H208	1	1	SKF (in item 10)
10	Y ball bearing assy	17262082RSR	1	1	MGM
11	Housing, bearing	FY-508	1	1	SKF
12	Washer, lock – 1 int tab – 13 ext	MB8	1	1	SKF (in item 10)
13	Nut, round - M40x1.5 x 9mm*	KM8	1	1	SKF (in item 10)
14	Bolt, carriage - grade 4.6	M12x35CB	8	8	
15	Plate	14-010-093	1	1	
16	Washer	M12FW	4	4	
18	Auger shaft, RH	30-016-839	1	1	
19	Paddle, tooth - feed - adjustable	17-016-901	0	0	Optional feature for 12 row
20	Bolt, carriage, 3/8NC x 1", Gr 5	900-01695	0	0	
21	Nut, hex flange, toplock, 3/8NC	900-06530	0	0	

\* 9mm = .354 inches



**Single Drive  
1222 Row Header**



**Double Drive  
1622 Row Header**



# The Two Drive Systems Defined

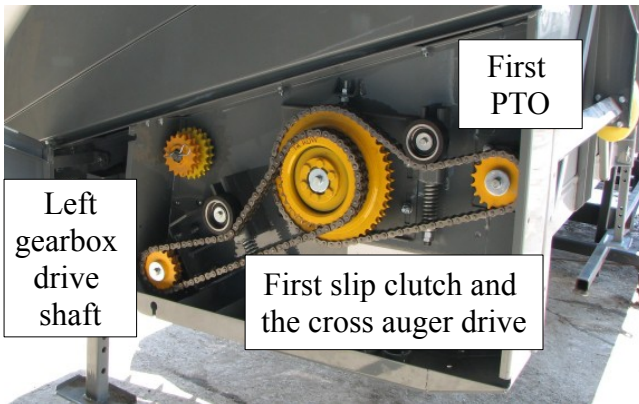
## Single drive - S1

Single drive, as seen in the upper picture on page 26, has one PTO hook-up on the left side, **S1** and the **red** arrow below. It has only one slip clutch with varying quantities of spring plates. It has a sprocket drive on the right side for the right hand half of the lower gearboxes.



**Left side PTO drive hook-up**

Inside the left shield you will see the chains and sprockets that drive the cross auger **S2** and the left half of the lower or gearbox drive shafts, **S2**. See picture below and upper picture on page 26.



**Left side drive**

This side is common (except for quantity of spring plates) to both single and double drives.

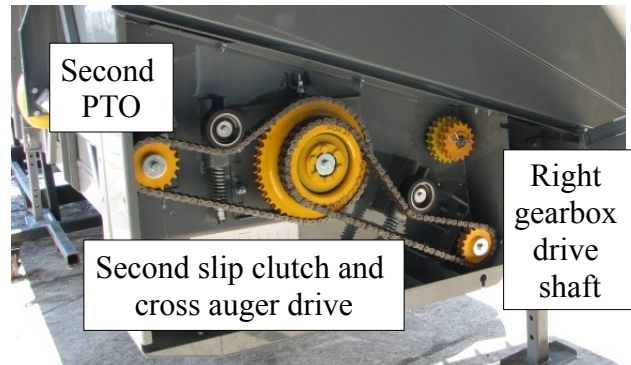
The next picture on this page is of the right hand end of the single drive, driving the right half of the gearboxes, **S3**.



**Right side, single drive**

## Double drive – D1

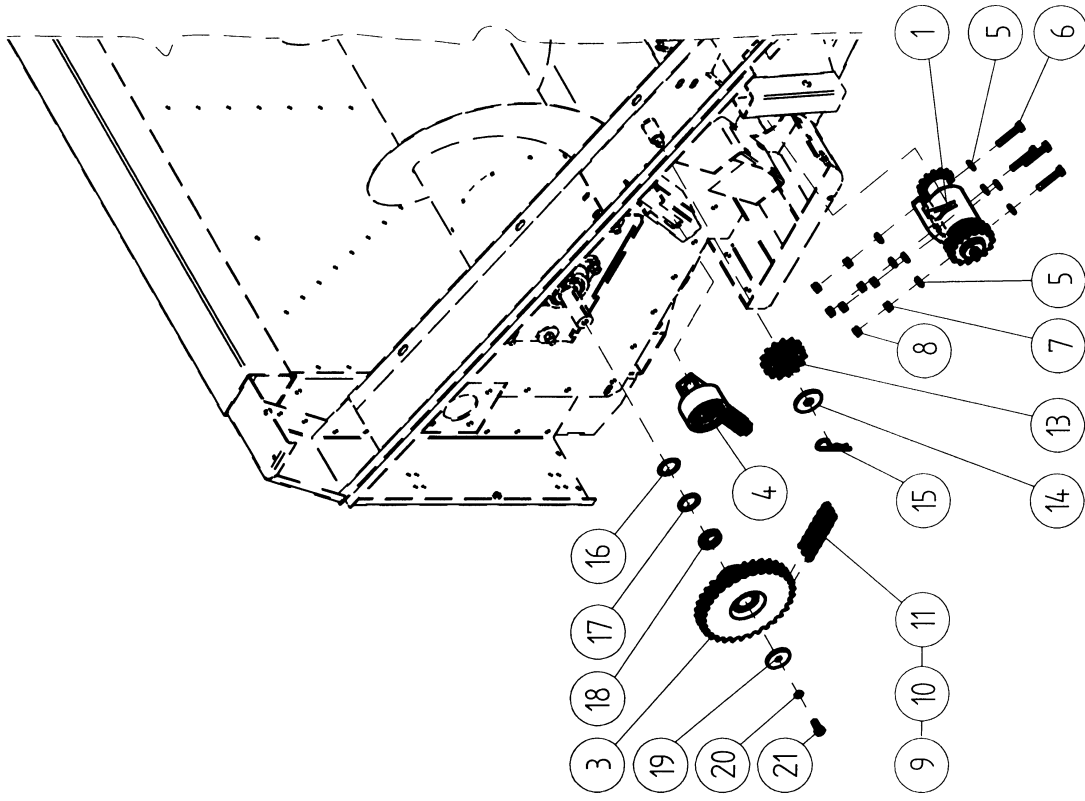
The double drive, as the name implies, has **two** PTO input drive shafts and **two** slip clutches. One PTO on each side of the feeder housing opening, **S1** and **D1** and slip clutches on **both** ends. The right end will look much like the left end, but with an two unseen differences. See picture below and the lower picture on page 26.



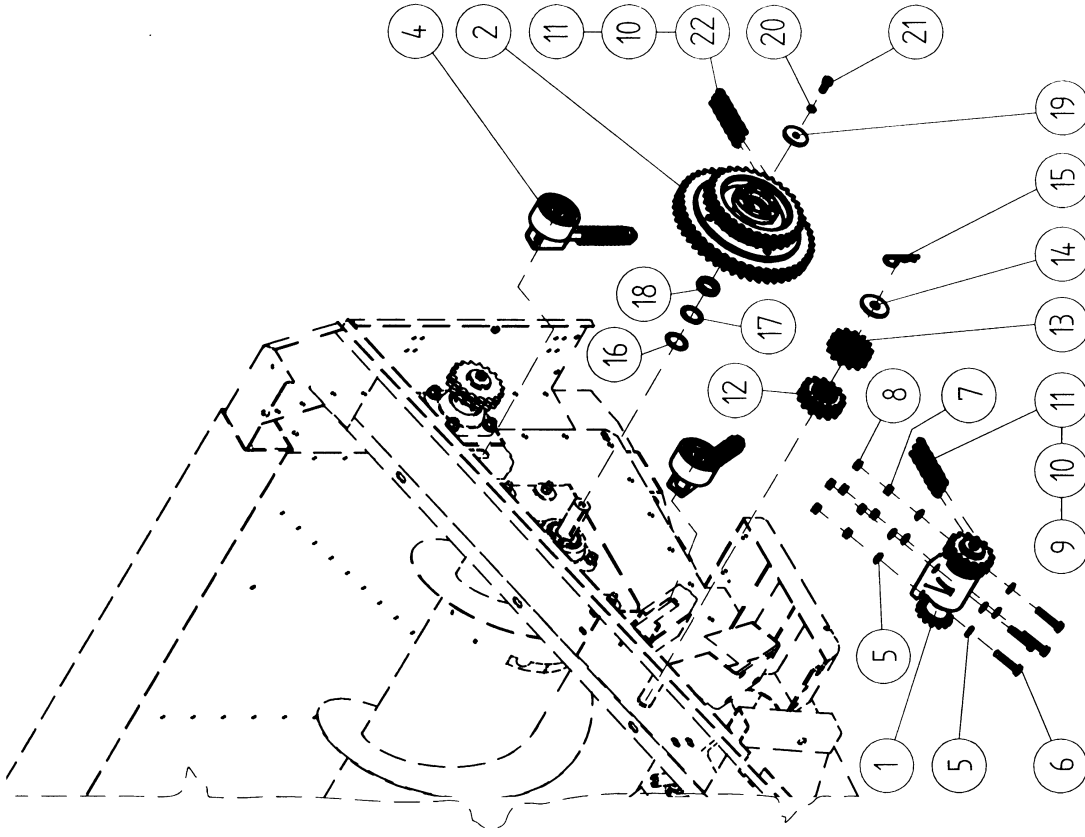
**Right side, double drive**

The differences are stated in the larger text box above. The double drive splits the torque load on the left side drive. See the yellow arrows in the lower picture on page 26. **D2** pulls off half of the gearbox load.

The quantity of spring plates in the clutches and the pressure settings vary with the row size and the load each clutch is expected to carry. The next 10 or 12 pages in this book will have the recommended slip clutch settings in the remarks column.



**End Drive Assy, RH - Single**



**End Drive Assy, LH - Single**

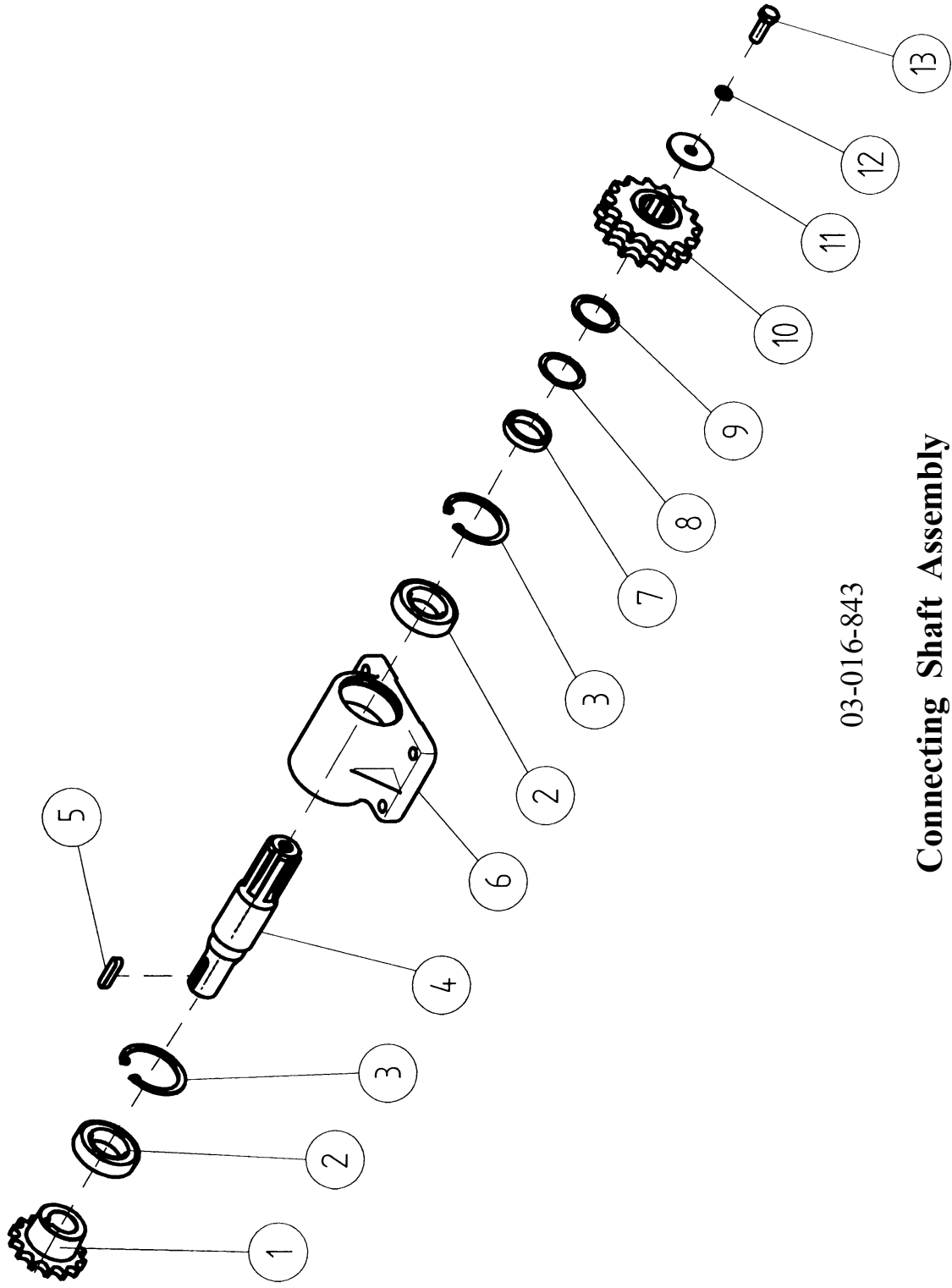


# End Drive Assy, RH & LH, Single

013

Item #	Description	Part #	Pieces per header by model #				Remarks
			1222 RH	1222 LH	1622 RH	1622 LH	
	End Drive assy RH, 12	01-001-829	1				
	End Drive assy LH, 12	01-001-833		1			
	End Drive assy RH, 16 (future)						
	End Drive assy LH, 16 "						
1	Connecting shaft assy	03-016-843	1	1			
2	Sprocket & clutch assy, single drive - LH *	05-016-848		1		1250Nm	900 Ft Lb
2	Dble end drive - LH (future)					1250Nm	900 Ft Lb
2	Dble end drive - RH "					750Nm	500 Ft Lb
3	Sprocket, double - 33 tooth - RH	07-016-849	1				
4	Tensioner assy	06-016-850	1	2			
5	Washer, flat	M10FW	8	8			
6	Screw, hex cap, grade 8.8	M10x45	4	4			
7	Washer, lock	M10LW	5	5			
8	Nut, hex, grade 8	M10HN	4	4			
9	Chain, double roller, 82 link	12B2-82	1	1			
10	Chain connector, dbl roller - straight	CL12B2	1	1			P/N was 12A-1
11	Chain connector, dbl roller - offset	OL12B2					(if needed)
12	Sprocket, dbl (varies-different combines)	-	2	2			see p18 in owners manual
13	Sprocket, dbl (varies-different combines)	-	2	2			see p18 in owners manual
14	Washer						(not current)
15	5/32 Hairpin, #9	900-25005	1	1			
16	Shim	13-005-993	2	2			(+/- as needed)
17	Shim	13-005-994	2	2			(+/- as needed)
18	Bushing	31-016-820	2	1			
19	Washer, 2" special	100-3-3648	2	2			
20	Washer, lock	M10LW	1	1			
21	Screw, hex cap, grade 8.8	M10x25	1	1			
22	Chain, double roller	12B2-		1			Chain length depends on combine

\* For detail see pages 32 & 33



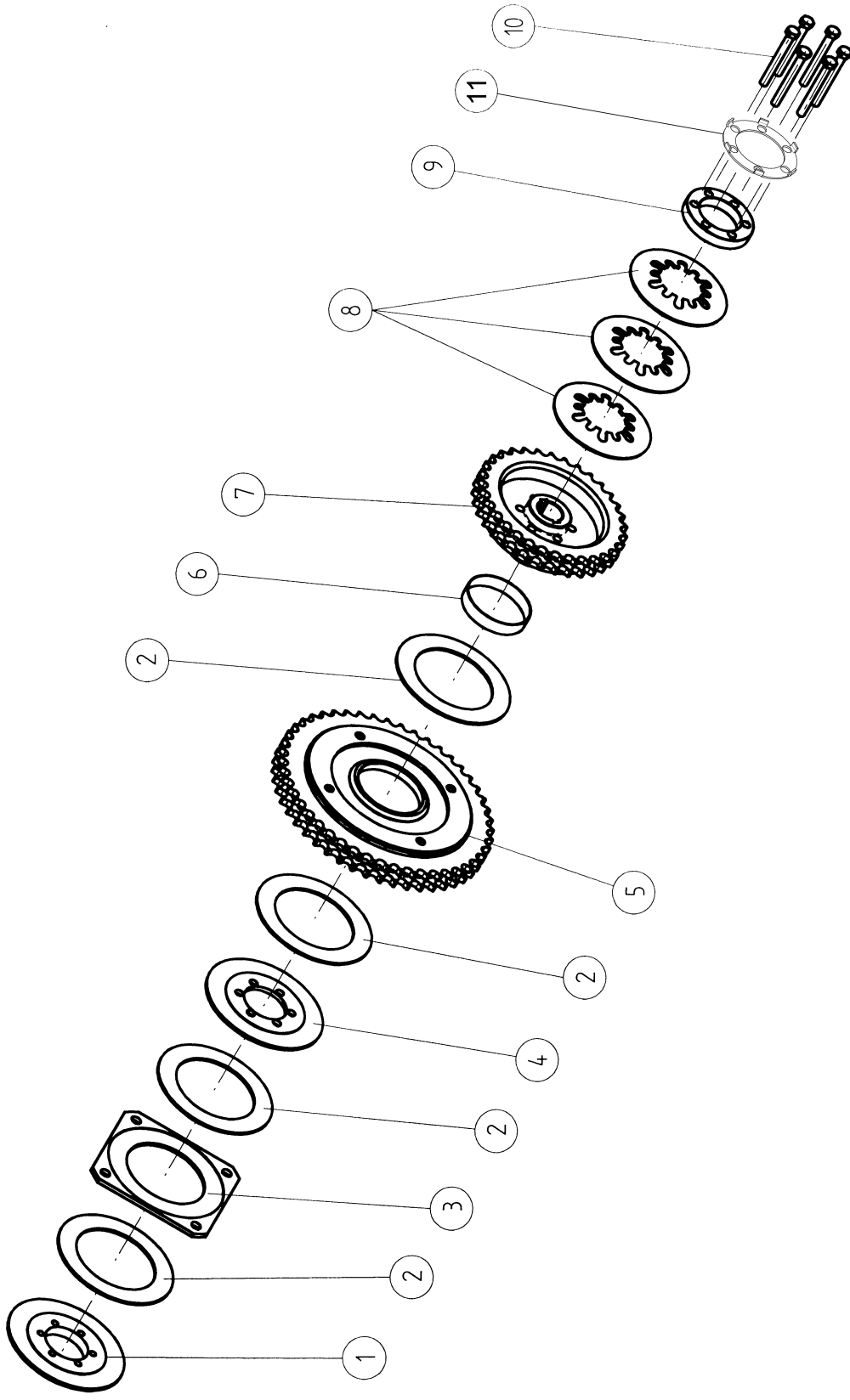
03-016-843

**Connecting Shaft Assembly**

**Connecting Shaft Assy - 03-016-843**

**014**

Item #	Description	Part #	Pieces per Header by model #		Remarks
			#1222	#1622	
	Connecting shaft assy	03-016-843	2	2	
			Pieces per individual assy		
1	Sprocket, 14 tooth	24-016-425	1	1	
2	Bearing, deep groove, ball w/seal	6007-2RS1	2	2	SKF
3	Snap ring	62MSZ231	2	2	
4	Shaft, connecting	30-016-851	1	1	
5	Key, flat, round end, 8x7x36mm	34-004-214	1	1	
6	Housing, bearing	40-004-209	1	1	
7	Spacer, sleeve	31-016-852	1	1	
8	Shim, 1 mm	13-005-993	1	1	(+/- as needed)
9	Shim, 2 mm	13-005-994	1	1	(+/- as needed)
10	Sprocket, dbl chain, 15 tooth	24-005-828	1	1	
11	Washer, flat	13-005-830	1	1	
12	Washer, lock	M10LW	1	1	
13	Screw, hex cap, grade 8.8	M10x30	1	1	

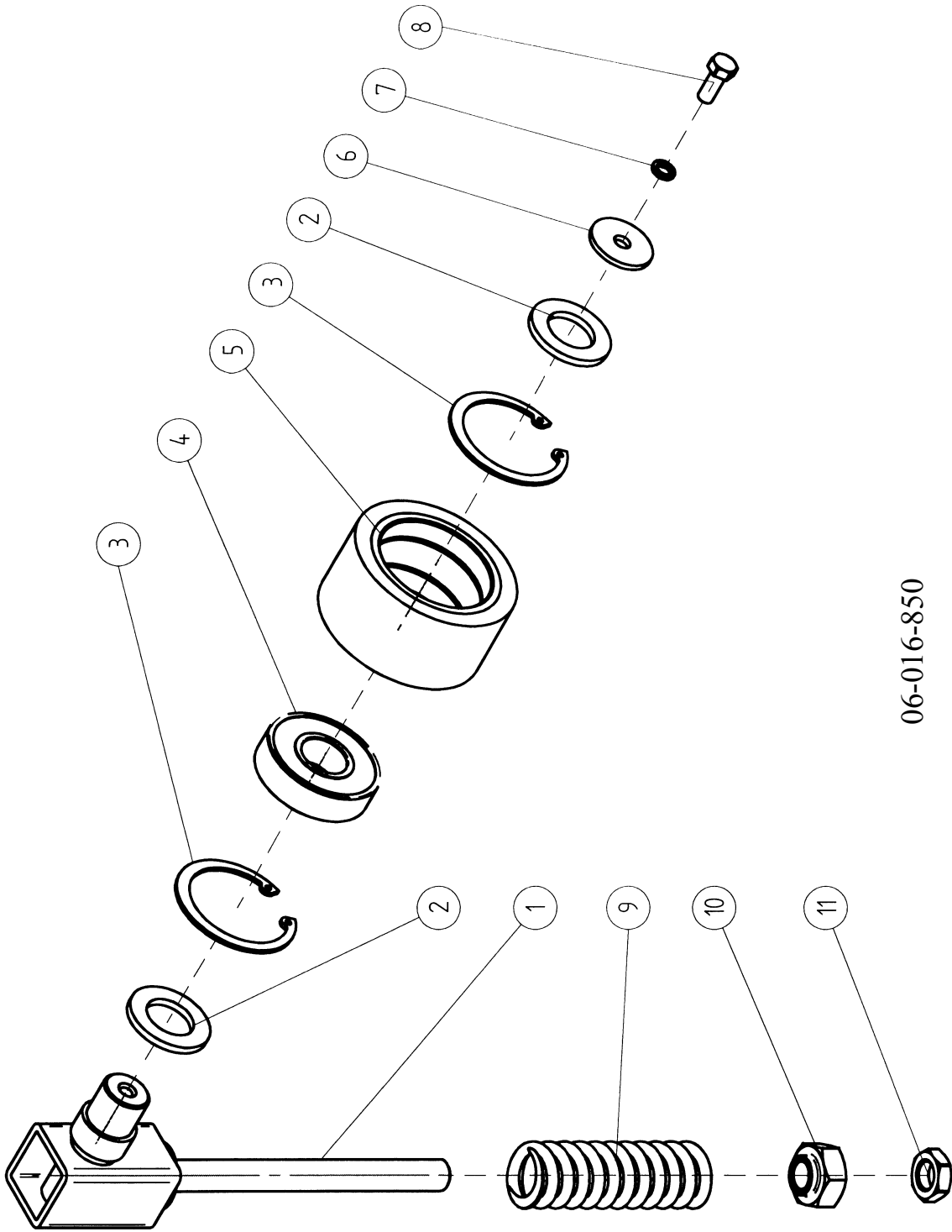


**Sprocket & Clutch Assembly, Single Drive - LH**

## Sprocket & Clutch Assy, Single Drive - LH

015

Item #	Description	Part #	Pieces per Header by model #		Remarks
			#1222	#1622	
	Sprocket & clutch assy	05-016-848			Increases qty on item 8 to (3)
	Sprocket & clutch sub-assy	05-016-847	1		1250Nm 900 Ft Lb
	16 assy, LH (future)				1250Nm 900 Ft Lb
	16 assy, RH (future)				750Nm 500 Ft Lb
1	Pressure plate, back	29-016-867	1	1	
2	Friction plate 160x110,5x3	RONA63/TAU	4	4	
3	Outer disc	29-016-868	1	1	
4	Inner disc	29-016-869	1	1	
5	Sprocket, double - 48 tooth	07-016-866	1	1	
6	Spacer	14-016-859	1	1	
7	Sprocket assy, dbl - 33 tooth	07-016-865	1	1	
7	Sprocket assy (for 16 row RH)	07-024-103	-	-	(Not shown, but similar)
7a	Bushing, bronze sleeve (ditto)	PM3535SY	-	-	(Not shown)
8	Spring disc 135x10, 6x2,8	043 491	3	3	Walterscheid
9	Retaining ring II.	29-016-870	1	1	
10	Screw, hex cap, grade 8.8	M10x80	6	6	
11	Lock tab, clutch assy	13-004-305	1	1	

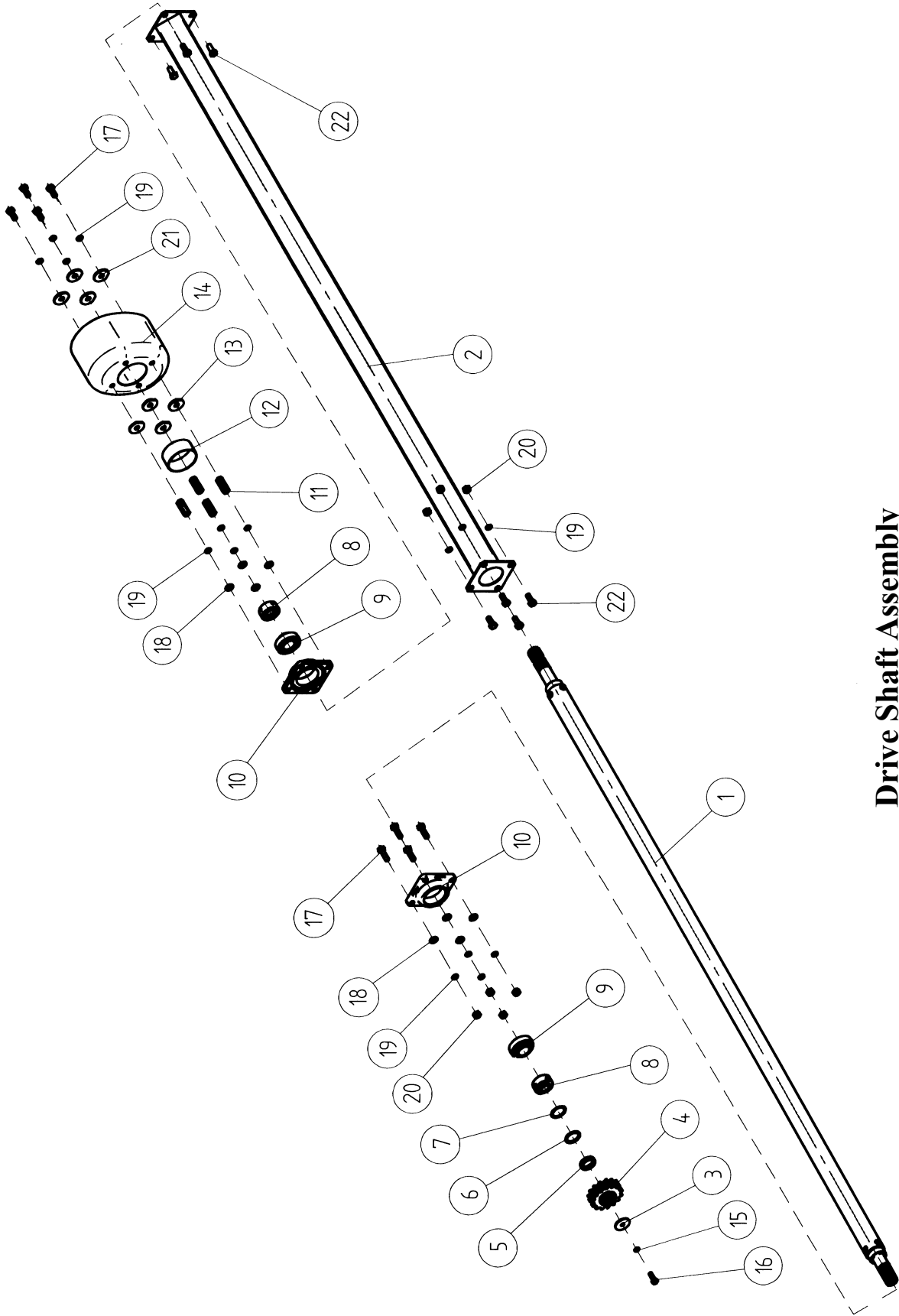


06-016-850

### Chain Tensioner Assembly





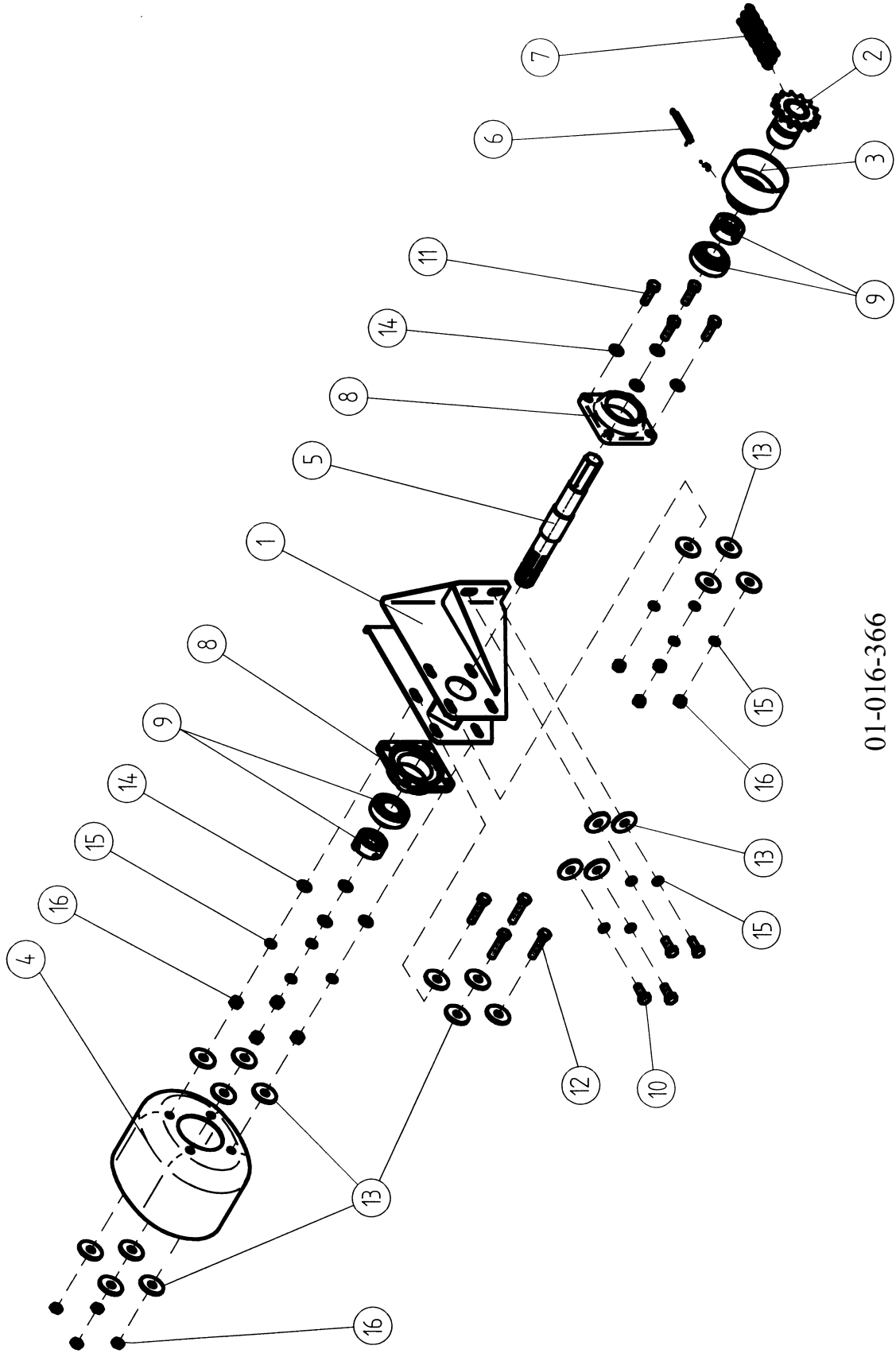


**Drive Shaft Assembly**

# Drive Shaft Assembly

017

Item #	Description	Part #	Pieces per Header by model #		Remarks
			#1222	#1622	
	Drive shaft assy, Model 1222	01-015-645	1		After Ser. No. M11650
	Drive shaft assy			1	
1	Drive shaft	30-015-646	1		" " " "
1	Drive shaft			1	
2	Drive shaft, tube w/ldt	02-015-647	1		" " " "
2	Drive shaft, tube w/ldt			1	
3	Washer, flat	13-005-830	1	1	
4	Sprocket, double (various tooth)	See right column	1	1	Depends on combine
5	Sleeve	31-016-852	1	1	
6	Shim, 1mm	13-005-993	1	1	(+/- as needed)
7	Shim, 2 mm	13-005-994	1	1	(+/- as needed)
8	Locking collar (for Y bearing, see below)	YT-207	2	2	SKF w/ bearing
9	Y bearing	YT-207	2	2	SKF
10	Housing, bearing	FY-507	2	2	SKF
11	Nut, extended M12x50 (special)	33-016-879	4	4	
12	Sleeve, plastic tube extension	60-016-878	1	1	
13	Wood washer	13-016-883	4	4	
14	Cone, safety	61-016-441	1	1	
15	Washer, lock	M10LW	1	1	
16	Screw, hex cap, grade 8.8	M10x30	1	1	
17	Screw, hex cap, grade 8.8	M12x40	4	4	
17a	Screw, hex cap, grade 8.8	M12x50	4	4	
18	Washer, flat (also see item # 21)	M12FW	8	8	
19	Washer, lock	M12LW	16	16	
20	Nut, hex	M12HN	8	8	
21	Washer (was wood - also see item # 18)	M12FW	4	4	
22	Screw, hex cap, grade 8.8	M12x30	8	8	

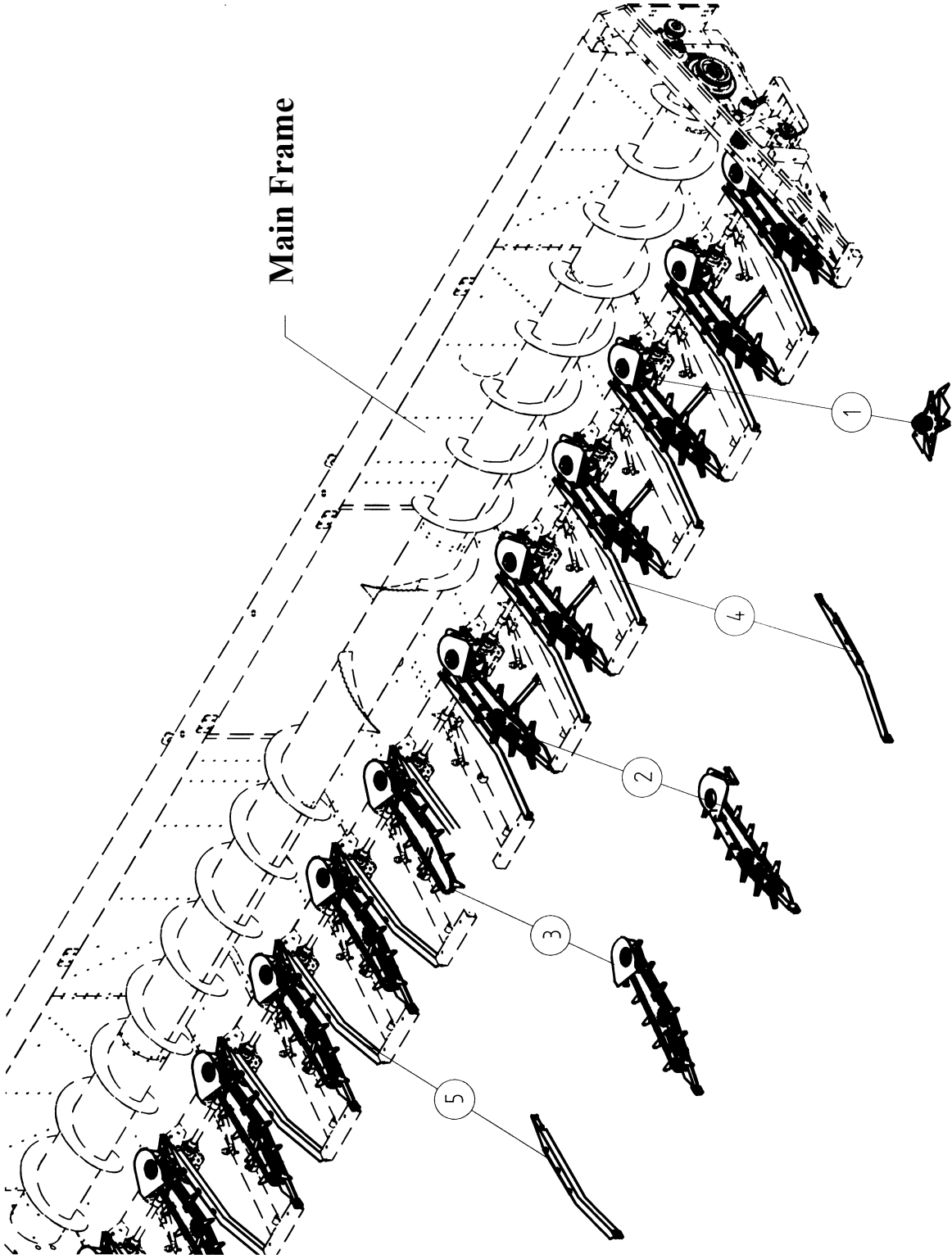


01-016-366

**JD-9600 Drive Assy**

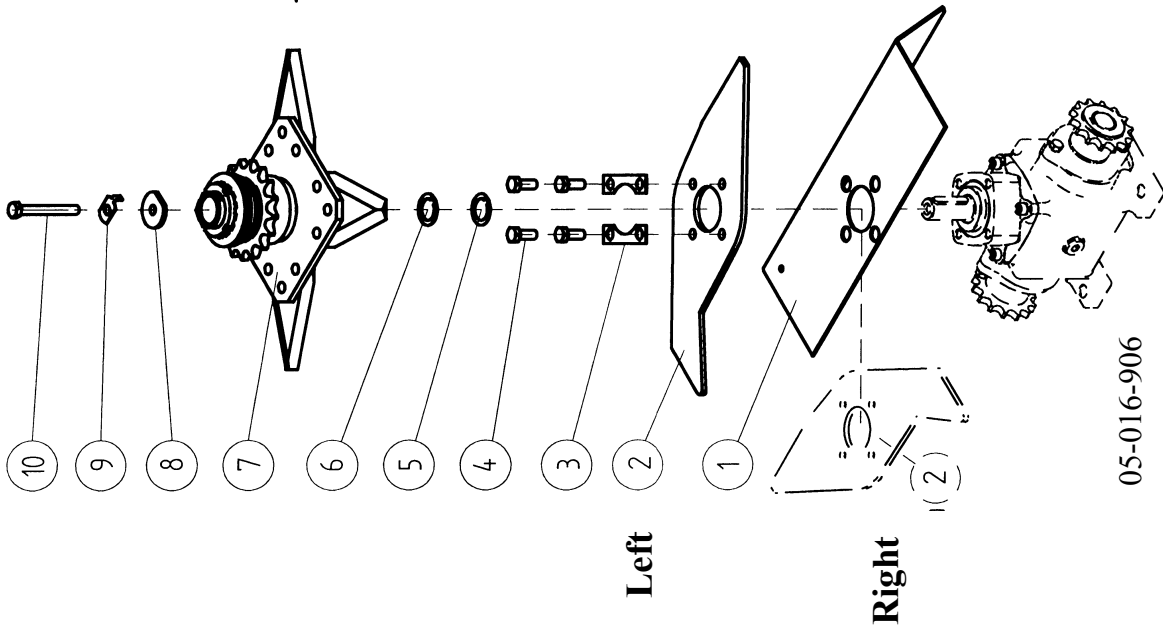
**Support Kit, Drive Shaft - PTO - JD 9600 - 01-016-366 018**

Item #	Description	Part #	Pieces per header by model #		Remarks
			#1222	#1622	
	Support kit, drive shaft - PTO - JD	01-016-366	1	1	
1	Support w/ldt, bearing - JD	02-016-450	1	1	
2	Sprocket w/ldt - JD	07-016-451	1	1	
3	Sleeve, connector - JD	02-016-452	1	1	
4	Cone, safety	61-016-441	1	1	
5	Shaft, counter - JD	30-016-455	1	1	
6	Spring	50-016-456	1	1	
7	Chain, double - 14 link	12B2-14	1	1	
8	Flange, bearing	FY-507	2	2	
9	Bearing with locking collar	YT-207	2	2	
10	Screw, hex hd cap, grade 8.8	M12x30	4	4	
11	Screw, hex hd cap, grade 8.8	M12x40	4	4	
12	Screw, hex hd cap, grade 8.8	M12x55	4	4	
13	Washer, 12mm	M12W	20	20	was wood
14	Washer, flat	M12FW	8	8	
15	Washer, lock	M12LW	12	12	
16	Nut, hex, grade 8.8	M12HN	12	12	

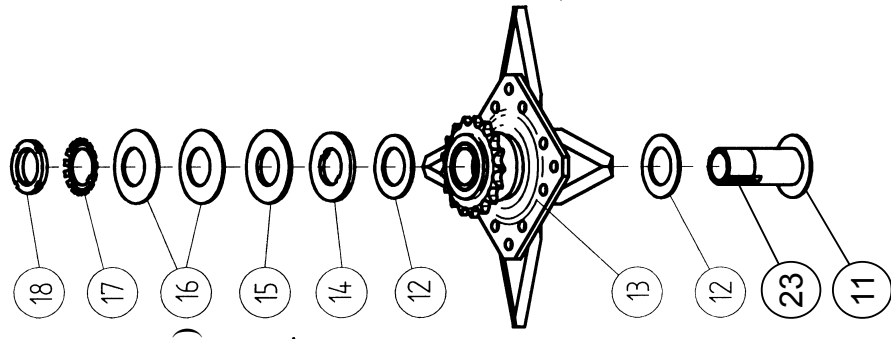


Row Unit Assembly



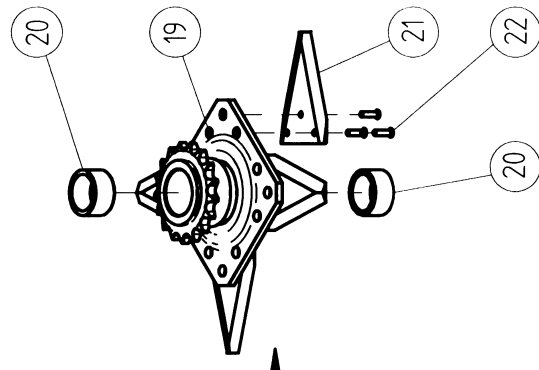


05-016-906



**Rotary Cutter**  
**Group 7**

05-016-908



**Blade Assembly**  
**Group 13**

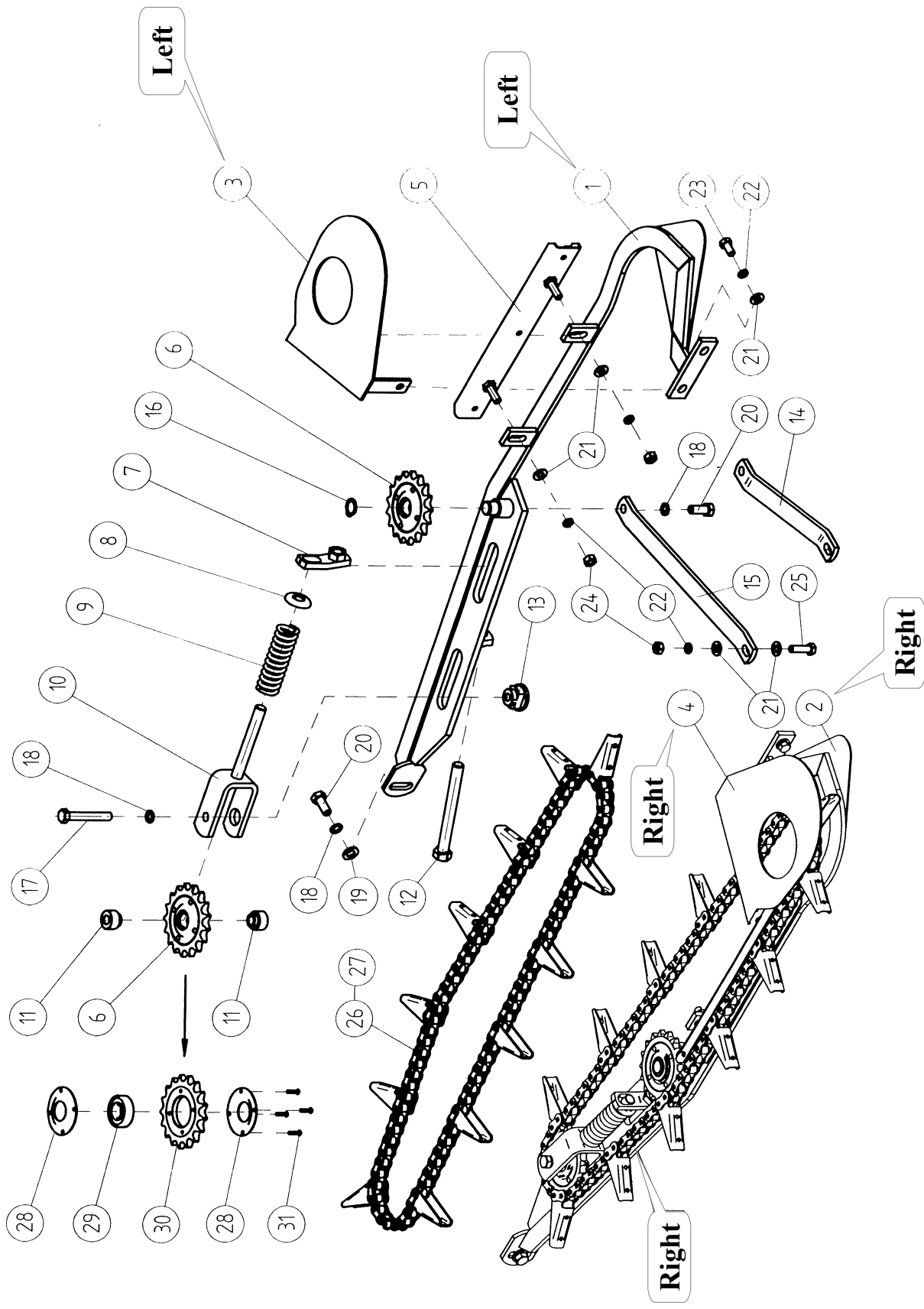
05-006-034

**Rotary Cutting Mechanism**



Item #	Description	Part #	Pieces per Header by model #		Remarks
			#1222	#1622	
	Cutting blade assembly	05-016-906	12	16	Parent part number of top group
			Pieces per individual unit		
1	Plate, base	14-004-297	1	1	
2	Cutting edge, stationary - lefthand	13-006-025	1	1	Either left or right
2	Cutting edge, stationary - righthand	13-006-026	1	1	" " " "
3	Plate, locking	12-004-299	2	2	
4	Screw, hex hd cap - grade 8.8	M10x25	4	4	
5	Shim 1mm (+/- as needed)	13-004-300	2	2	Old P/N -- 2-600-181/A
6	Shim 0.5mm (+/- as needed)	13-004-301	2	2	Old P/N -- 2-600-181/B
7	Cutting blade assy, rotary	05-016-908	1	1	
8	Bushing, upper	29-004-302	1	1	Old P/N -- 2-600-180
9	Tab, locking	13-004-303L	1	1	
10	Screw, hex hd cap, grade 8.8	M10x80	1	1	
Group 7	Rotary cutting blade assy	05-016-908	1	1	Parent part number of group 7
11	Hub, blade	02-006-035	1	1	
23	Key, flat, round end, 8x7x45mm	34-004-183	1	1	Added
12	Friction disk, drive	61-016-910	2	2	
13	Blade assy	05-006-034	1	1	
14	Disk, upper	29-016-911	1	1	
15	Plate, pressure	29-016-912	1	1	
16	Washer, belleville spring	51-016-495	3	3	Was (2)
17	Washer, locking - (2) int tabs / (7) ext tabs	13-004-304	1	1	
18	Nut, round - (4) slots - M40x1.5 x 12mm*	33-027-249	1	1	
Group 13	Blade assembly	05-006-034	1	1	Parent part number of group 13
19	Sprocket, driver - 17 tooth	02-006-036	1	1	
20	Bushing Dia=50; d=40; x2,5 SINT C 00	32-004-319	2	2	
21	Blade	13-006-037	4	4	
22	Rivet d=6x22	06x22	12	12	
23	See "Remarks column" >>>				Item 23 is in "Group 7" above

\* 12mm = .472 inches

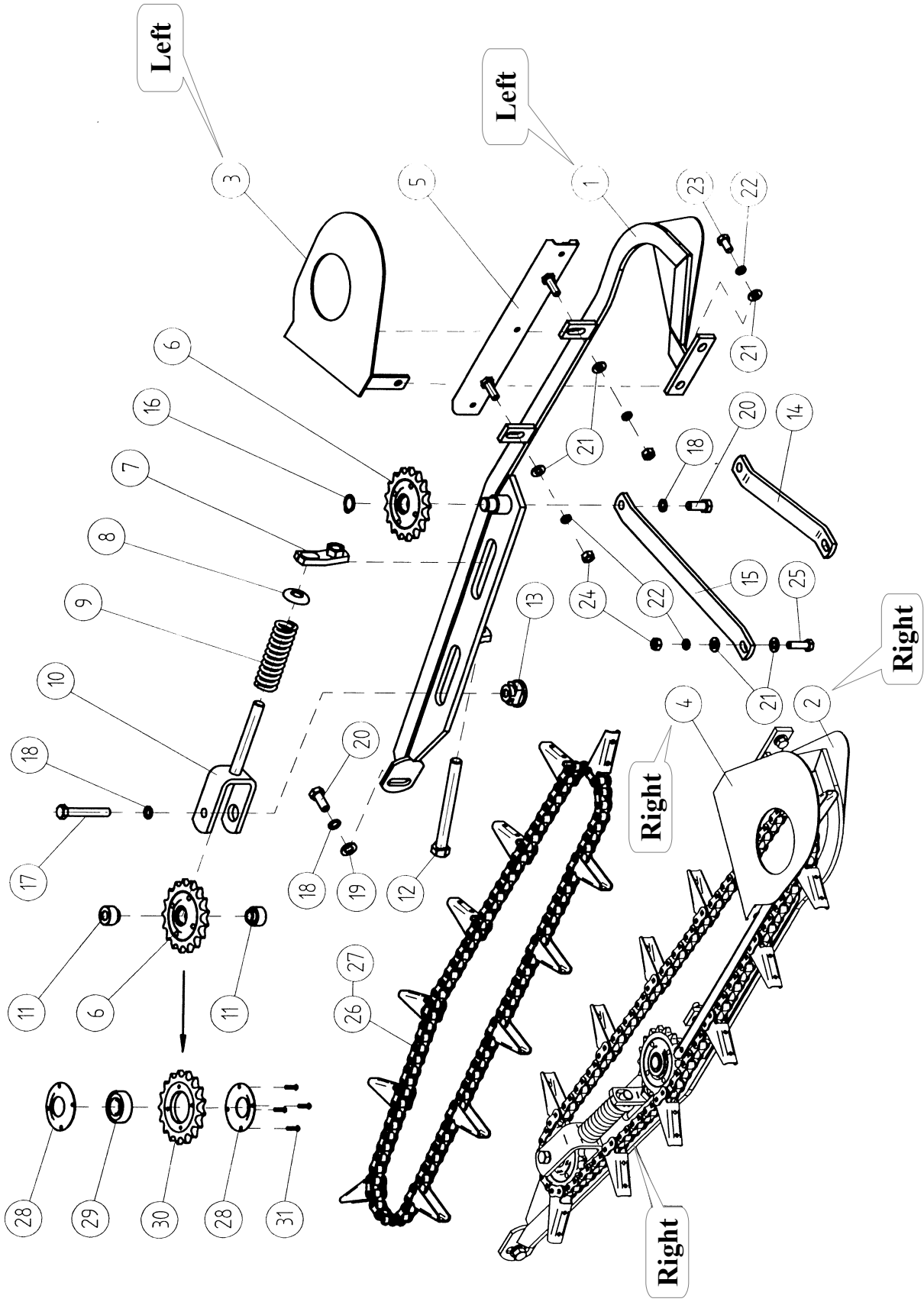


**Gathering Chain and Tensioner Assembly RH / LH**  
 (Right hand unit shown assembled, left hand unit shown as exploded view)

## Gathering Chain and Tensioner Assembly, RH / LH

021

Item #	Description	Part #	Pieces per Header by model #		Remarks
			#1222	#1622	
	Gathering chain & tensioner assy LH	01-001-201	6	8	
	Gathering chain & tensioner assy RH	01-001-202	6	8	
			Pieces per individual unit		
1	Chain tensioner bracket LH	02-027-201	1	1	Either
2	Chain tensioner bracket RH	02-027-202	1	1	"
3	Stalk ejector LH	02-016-483	1	1	Either
4	Stalk ejector RH	02-016-484	1	1	"
5	Chain guide	02-006-023	1	1	
6	Sprocket, riveted - 17 tooth	06-006-056	2	2	
7	Spring retainer	02-027-212	1	1	
8	Washer, bent	14-027-210	1	1	
9	Spring	50-004-340	1	1	
10	Bracket	02-027-209	1	1	
11	Spacer	31-006-061	2	2	
12	Screw, tightener	02-027-215	1	1	
13	Nut	33-006-062	2	2	
14	Brace, outer - 22"	52-006-031	1	1	(2) pcs/header (see page 41)
15	Brace, inner - 22"	52-013-645	1	1	Rows, minus (2), ( " " " )
16	Snap ring d=20mm	7020002001	1	1	

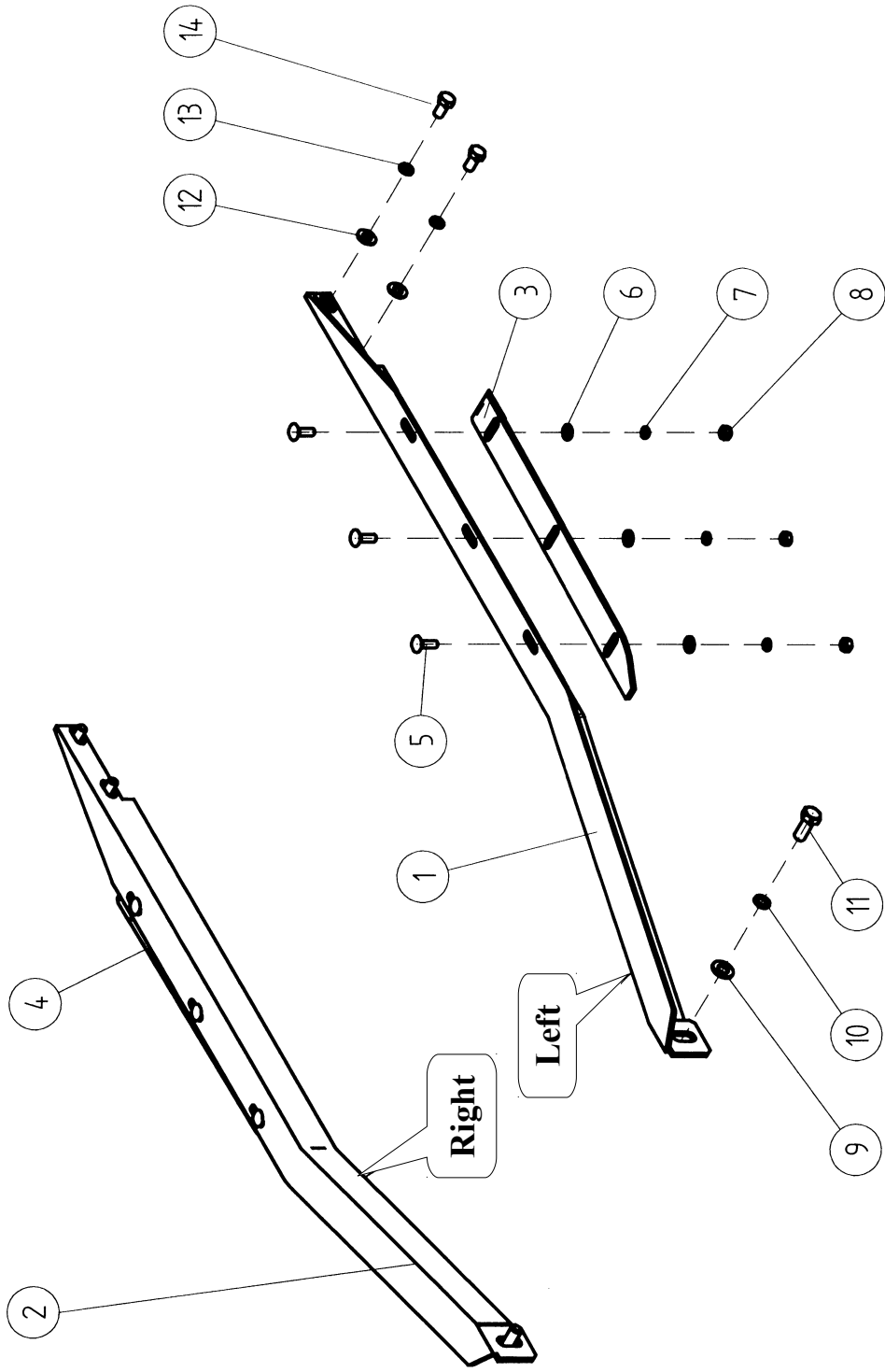


**Gathering Chain and Tensioner Assembly RH / LH**  
 (Right hand unit shown assembled, left hand unit shown as exploded view)

### Gathering Chain and Tensioner Assembly, RH / LH (cont.)

021

Item #	Description	Part #	Pieces per Header by model #		Remarks
			#1222	#1622	
			Pieces per individual assy		
17	Screw, hex. cap, grade 8.8	M12x80	1	1	
18	Washer, lock	M12LW	3	3	
19	Washer, flat	M12FW	1	1	
20	Screw, hex. cap, grade 8.8	M12x30	2	2	
21	Washer, flat	M10FW	6	6	
22	Washer, lock	M10LW	5	5	
23	Screw, hex. cap, grade 8.8	M10x20	2	2	
24	Nut, hex., grade 8.8	M10HN	3	3	
25	Screw, hex. cap, grade 8.8	M12x35	1	1	
26	Gathering chain	54-006-080	1	1	
27	Gathering chain connector link	Gatherconn	1	1	Old P/N -- CL12B1
Item No. 6	Sprocket, riveted - 17 tooth	06-006-056	Repeated item from page 45		
28	Cover	14-004-344	2	2	
29	Bearing, ball	6204-2RS1	1	1	SKF
30	Sprocket, 17 tooth	24-004-343	1	1	
31	Rivet, d=4x18	4x18	4	4	

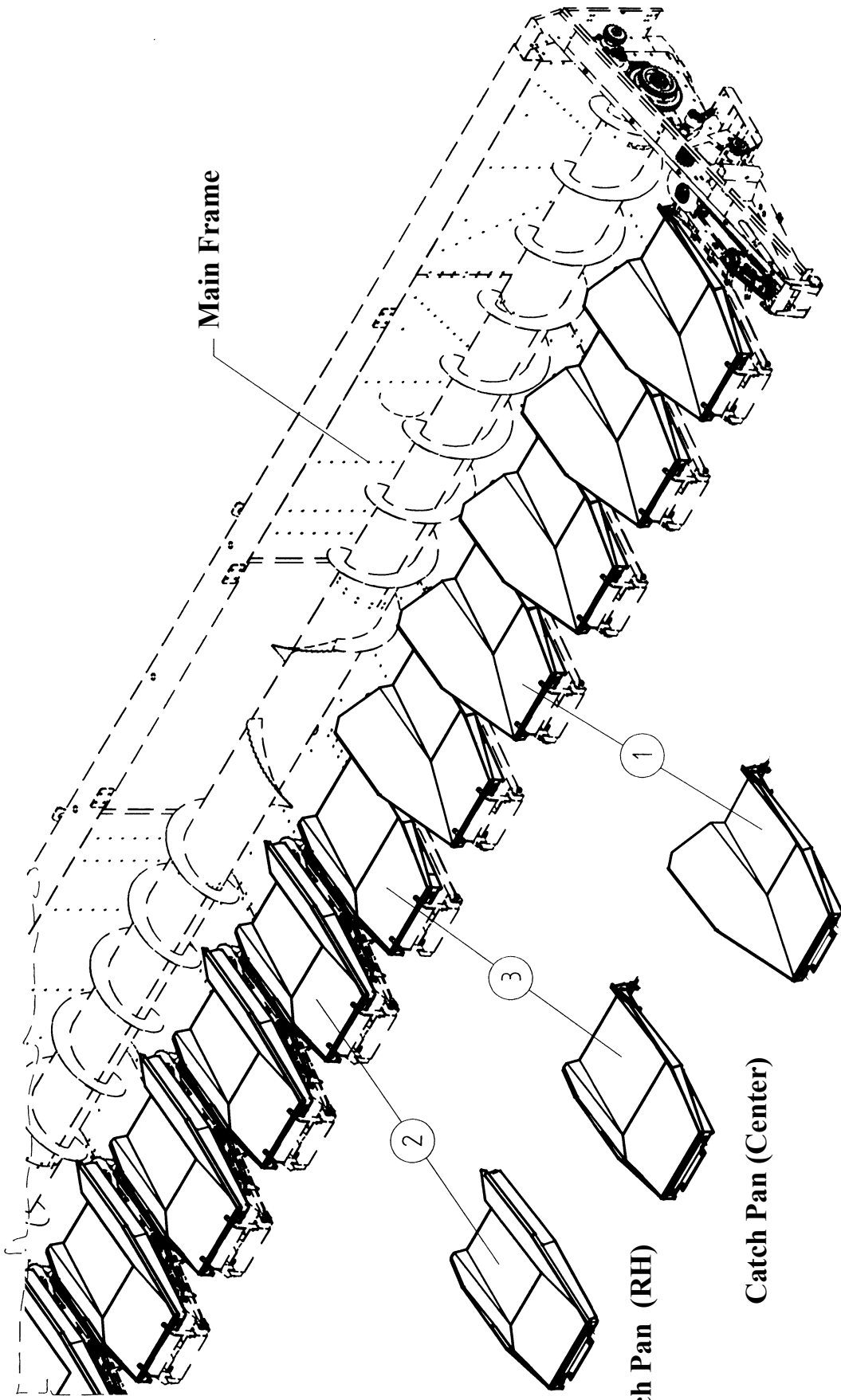


**Chain Guide Assembly RH / LH**

**Chain Guide Assembly RH / LH**

**022**

Item #	Description	Part #	Pieces per Header by model #		Remarks
			#1222	#1622	
	Chain guide assy (LH)	01-001-080	6	8	
	Chain guide assy (RH)	01-001-081	6	8	
			Pieces per individual assy		
1	Guide (LH)	02-006-084	1	1	Either
2	Guide (RH)	02-006-085	1	1	"
3	Adjustable plate (LH)	12-006-082	1	1	Either
4	Adjustable plate (RH)	12-006-083	1	1	"
5	Bolt, carriage - grade 4.6	M8x25CB	3	3	
6	Washer, flat	M8FW	3	3	
7	Washer, lock	M8LW	3	3	
8	Nut, hex, grade 8.8	M8HN	3	3	
9	Washer, flat	M12FW	1	1	
10	Washer, lock	M12LW	1	1	
11	Screw, hex hd cap, grade 8.8	M12x30	1	1	
12	Washer, special - 2 flats	13-009-251	2	2	Was 13-006-251, slotted
13	Washer, lock	M10LW	2	2	
14	Screw, hex hd cap, grade 8.8	M10x20	2	2	



Main Frame

1

3

2

Catch Pan (RH)

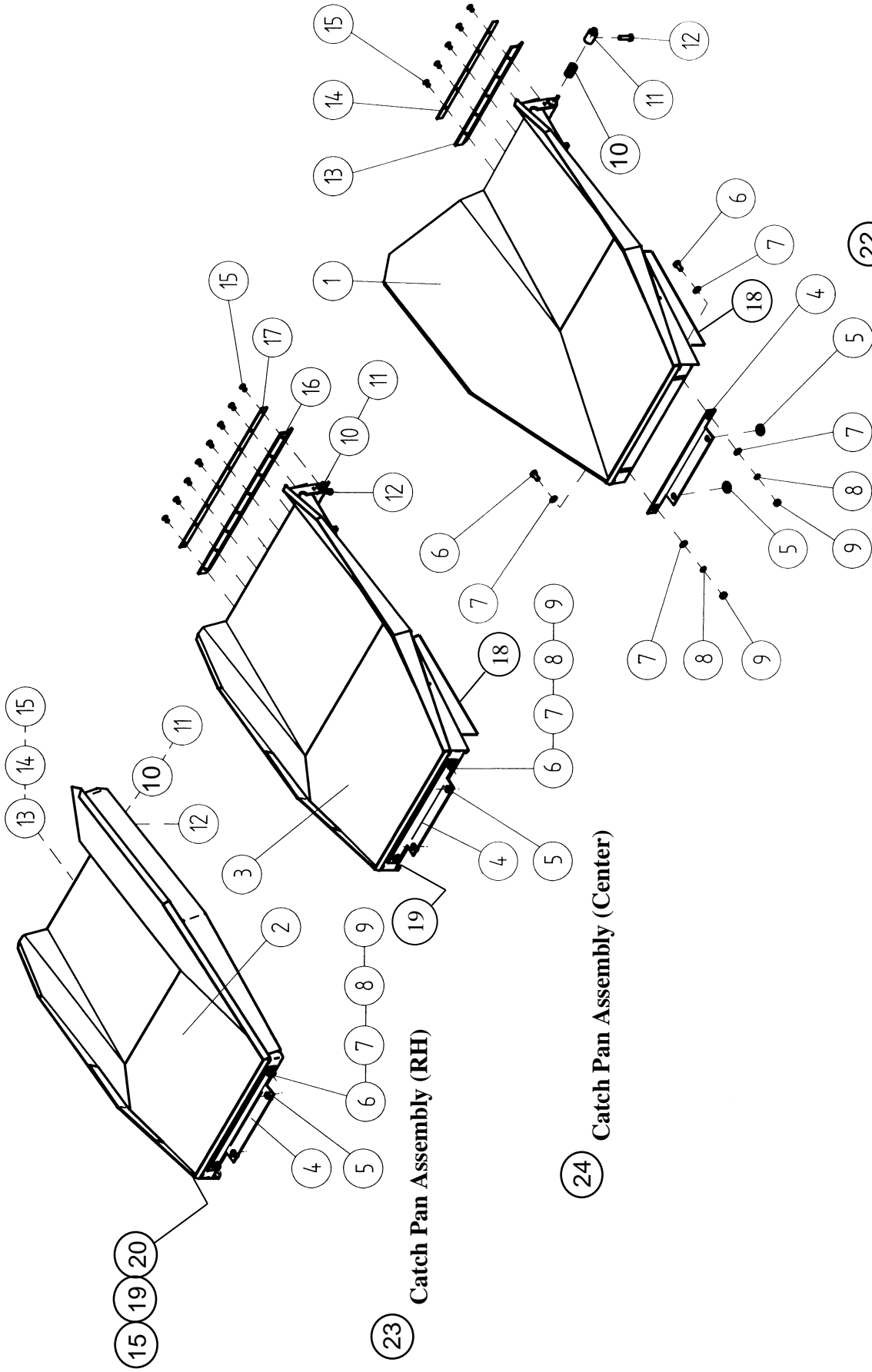
Catch Pan (Center)

Catch Pan (LH)

### Vibrating Catch Pan Assemblies





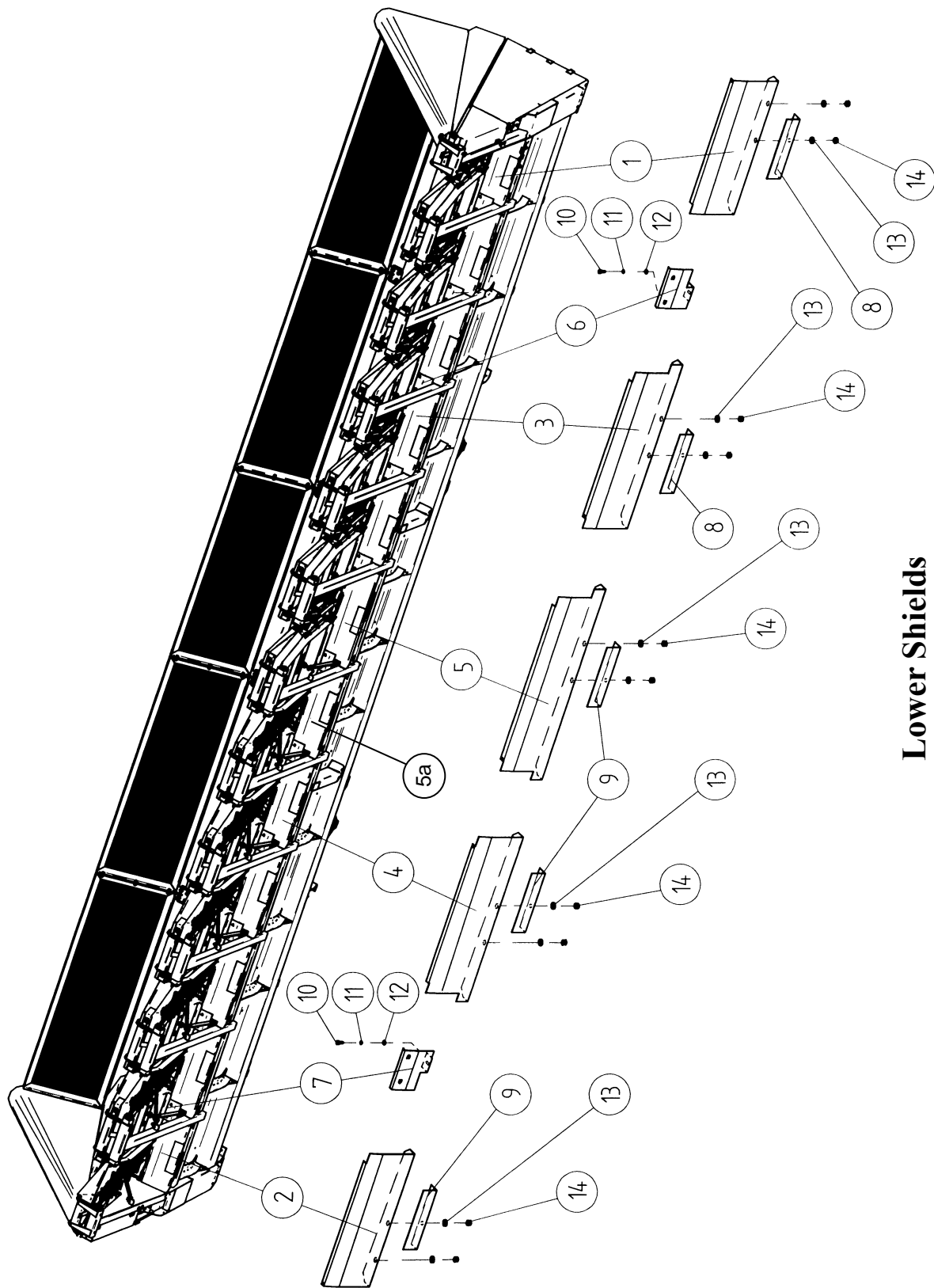


## Vibrating Catch Pan Assemblies

**Vibrating Catch Pans, 1222 Group 01-010-528**

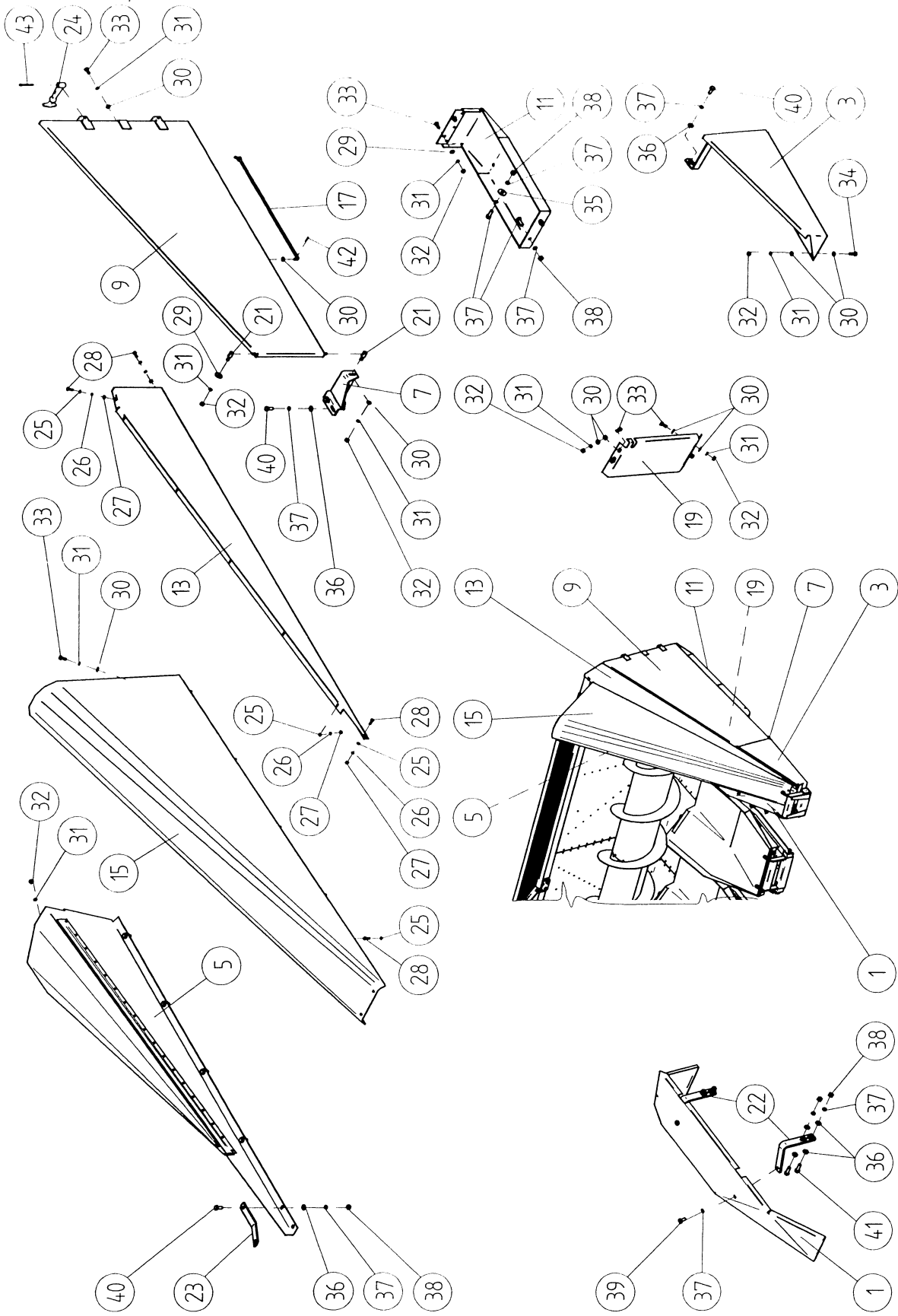
**024**

Item #	Description	Part #	Pieces per header by model #		Remarks
			#1222	#1622	
22	Vibrating catch pan (LH)	01-001-641	5	7	
18	Filler plate, LH	14-006-232	6	8	
23	Vibrating catch pan (RH)	01-001-642	5	7	
19	Filler plate, RH	14-006-231	6	8	
24	Vibrating catch pan (center)	01-010-723	1	1	
	Total pans		11	15	
	Total filler plates		12	16	
			Pieces per individual unit		
1	Catch pan welded (LH)	01-015-641	1	1	Either
2	Catch pan welded (RH)	01-015-642	1	1	"
3	Catch pan welded (center)	01-015-643	1	1	"
4	Bracket	14-010-730	1	1	
5	Rubber foot	61-016-807	2	2	
6	Screw, hex.cap. grade 8.8	M10x20	2	2	
7	Washer, flat	M10FW	4	4	
8	Washer, lock	M10LW	2	2	
9	Nut, hex. grade 8.8	M10HN	2	2	
10	Spring, catch pan	50-009-265	2	2	
11	Pin	31-004-574	2	2	
12	Screw, hex.cap, grade 8.8	M8x35	2	2	
13	Rubber flap	65-005-461	1	1	LH & RH only
14	Rubber flap retainer	13-005-462	1	1	" " " "
15	Rivet, pop, d=4, 8x16 (3/16)	04-8x16N	8	8	increase to (14), center pan
16	Rubber flap	65-011-662	1	1	center pan only
17	Rubber flap retainer	13-011-664	1	1	" " " "
20	Washer, flat - #10 SAE	900-11177	3	3	increase to (6), center pan



**Lower Shields**





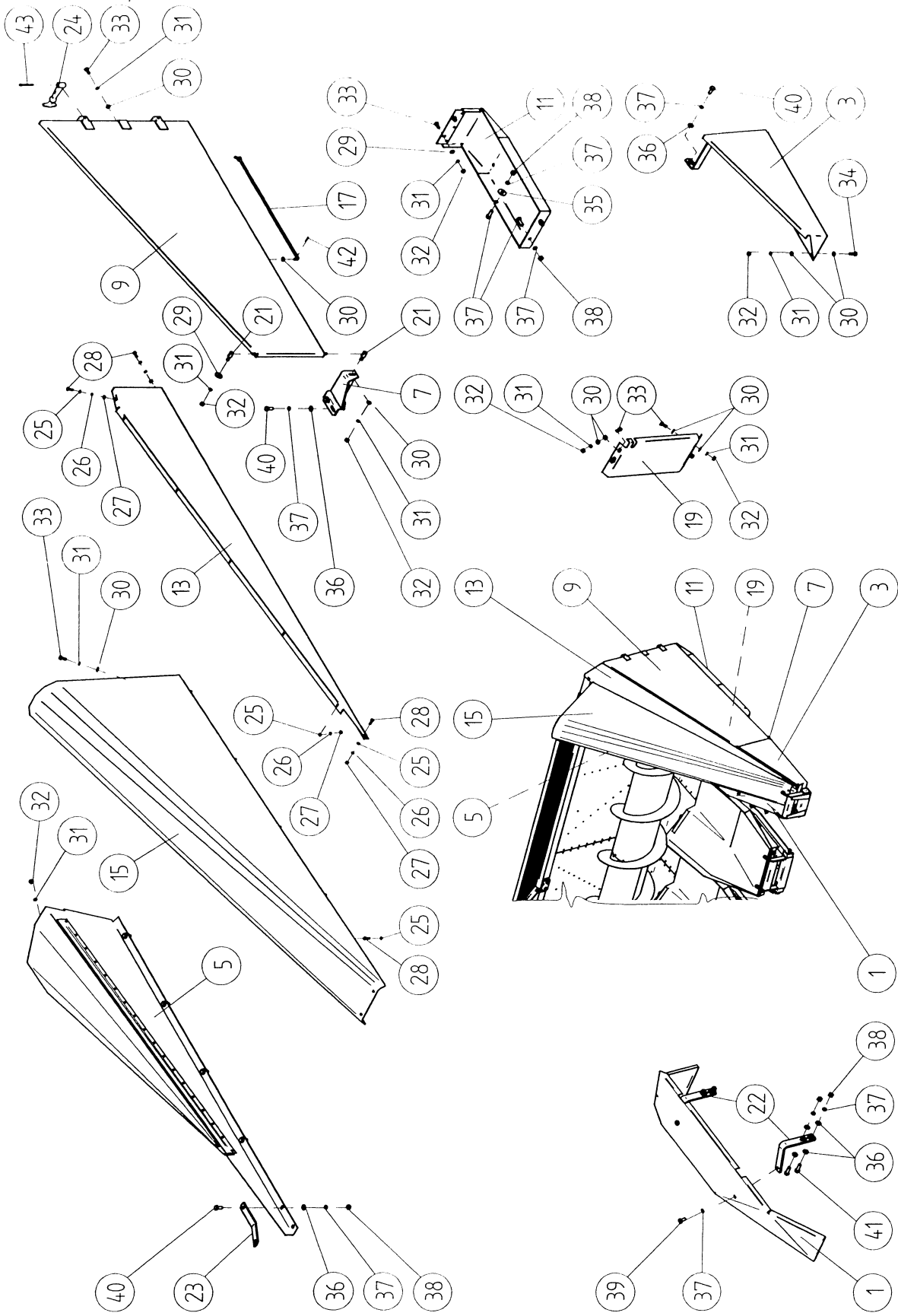
**End Shields, Left Hand**

# End Shield Assy, 22" - Left Hand

026

Item #	Description	Part #	Pieces per header by model #		Remarks
			#1222	#1622	
	End shield assy, common, 22" & 20"	01-001-531	1		this part no. / both LH & RH
1	Plate, guide - LH	02-016-813	1	1	
3	Insert, LH	02-016-501	1	1	
5	Plate, guide - LH	02-016-503	1	1	
7	Door hinge, LH	02-016-525	1	1	
9	Door, LH	02-016-531	1	1	
11	Slide plate, LH	02-016-509	1	1	
13	Plate, outer - LH	02-016-567	1	1	
15	Plate, side, upper - LH	02-016-541	1	1	
17	Rod, reinforcement - LH	02-016-530	1	1	
19	Plate, lower - LH	14-016-519	1	1	
		Common to LH & RH			
21	Hinge pivot, door	12-016-518	2	2	
22	Plate bracket	12-005-594	2	2	
23	Bracket	13-016-570	1	1	
24	Rubber strap assy	100-3-4417 *	4	4	was 801-991
25	Washer, flat	M6FW	16	16	
26	Washer, lock	M6LW	8	8	
27	Nut, hex grade 8.8	M6HN	8	8	
28	Screw, hex cap, grade 8.8	M6x20	8	8	
29	Washer (previously used wood)	M8W	2	2	
30	Washer, flat	M8FW	15	15	

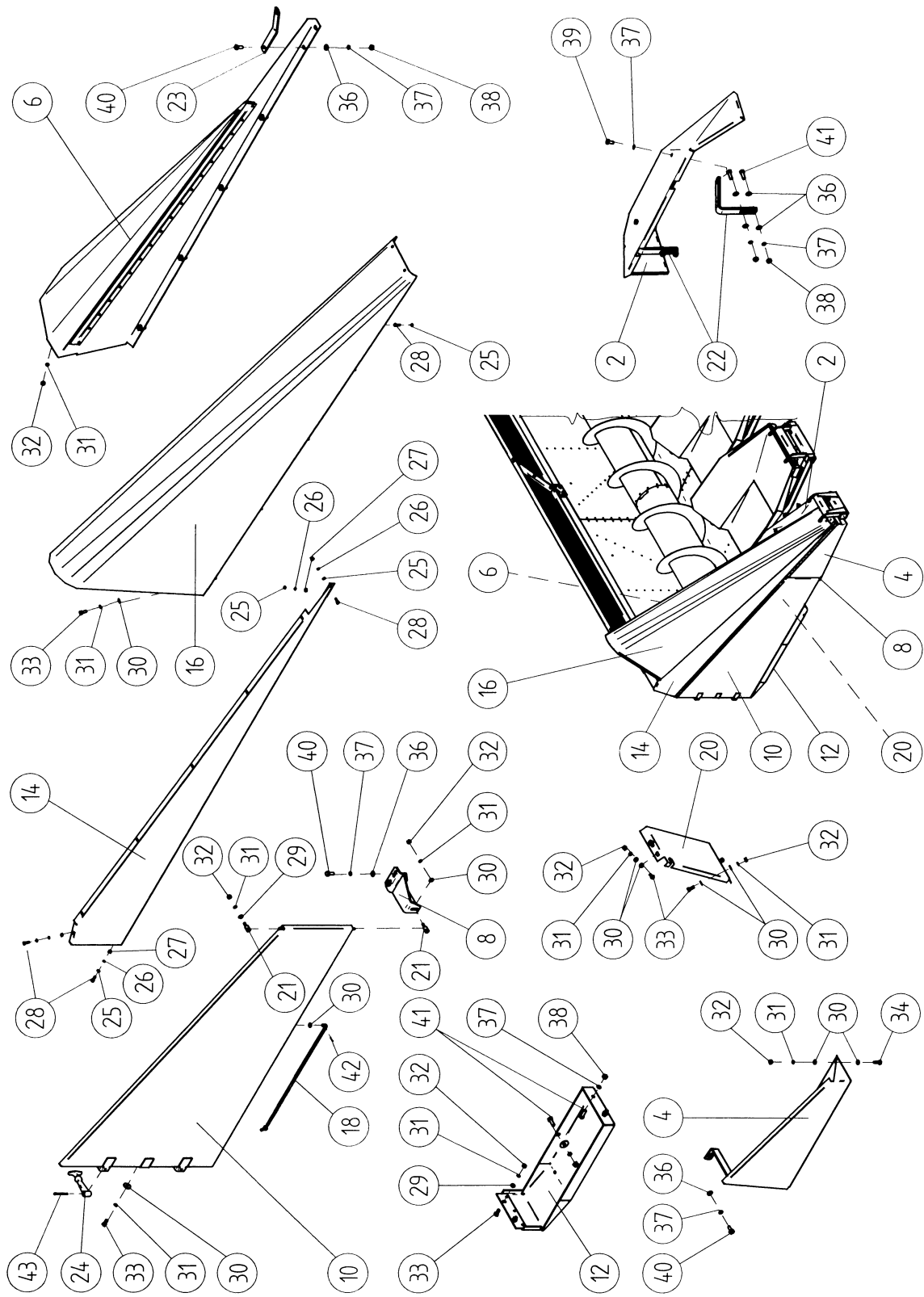
\* Sheyenne Part No.



**End Shields, Left Hand**







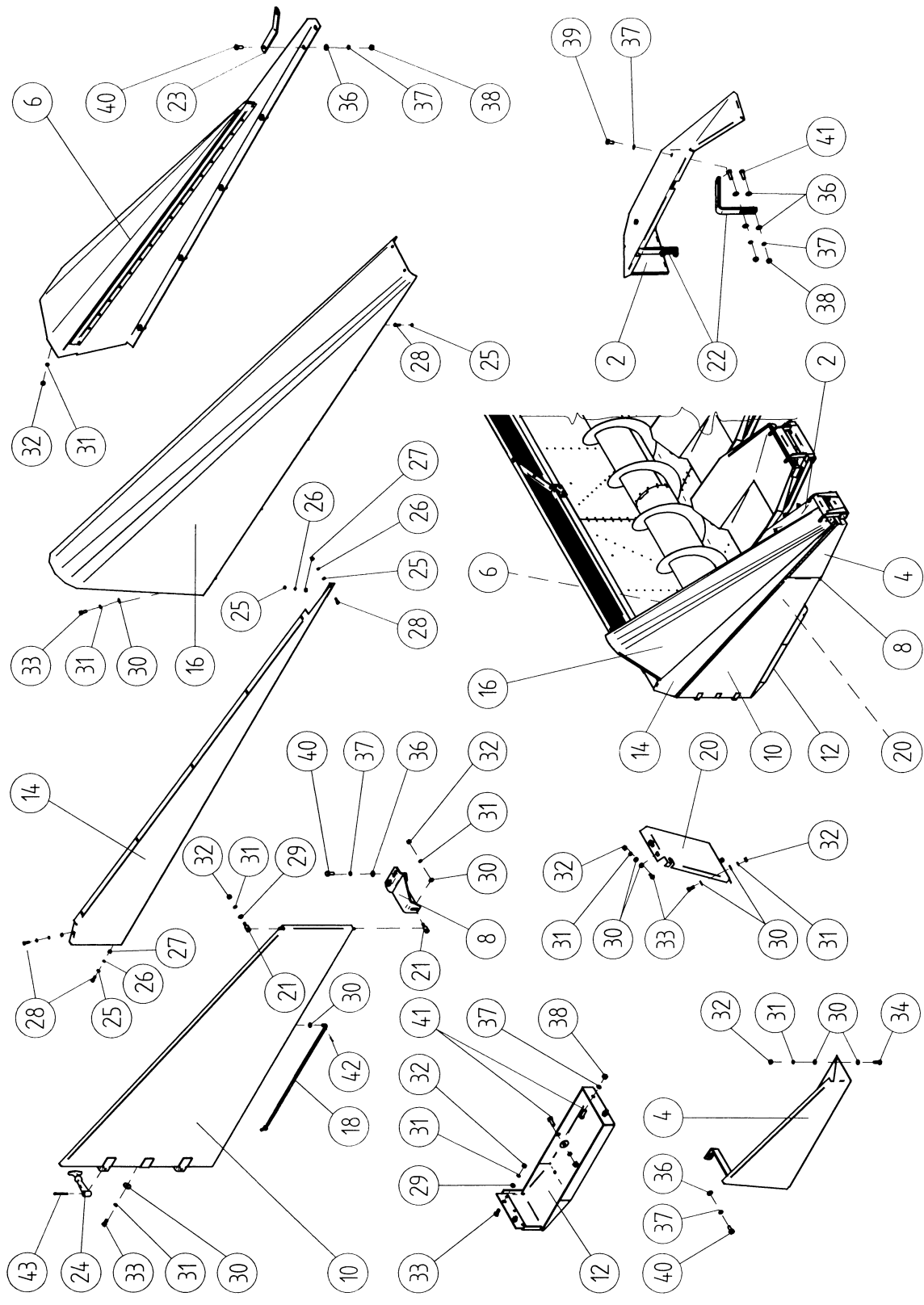
**End Shields, Right Hand**

# End Shield Assy, 22" - Right Hand

027

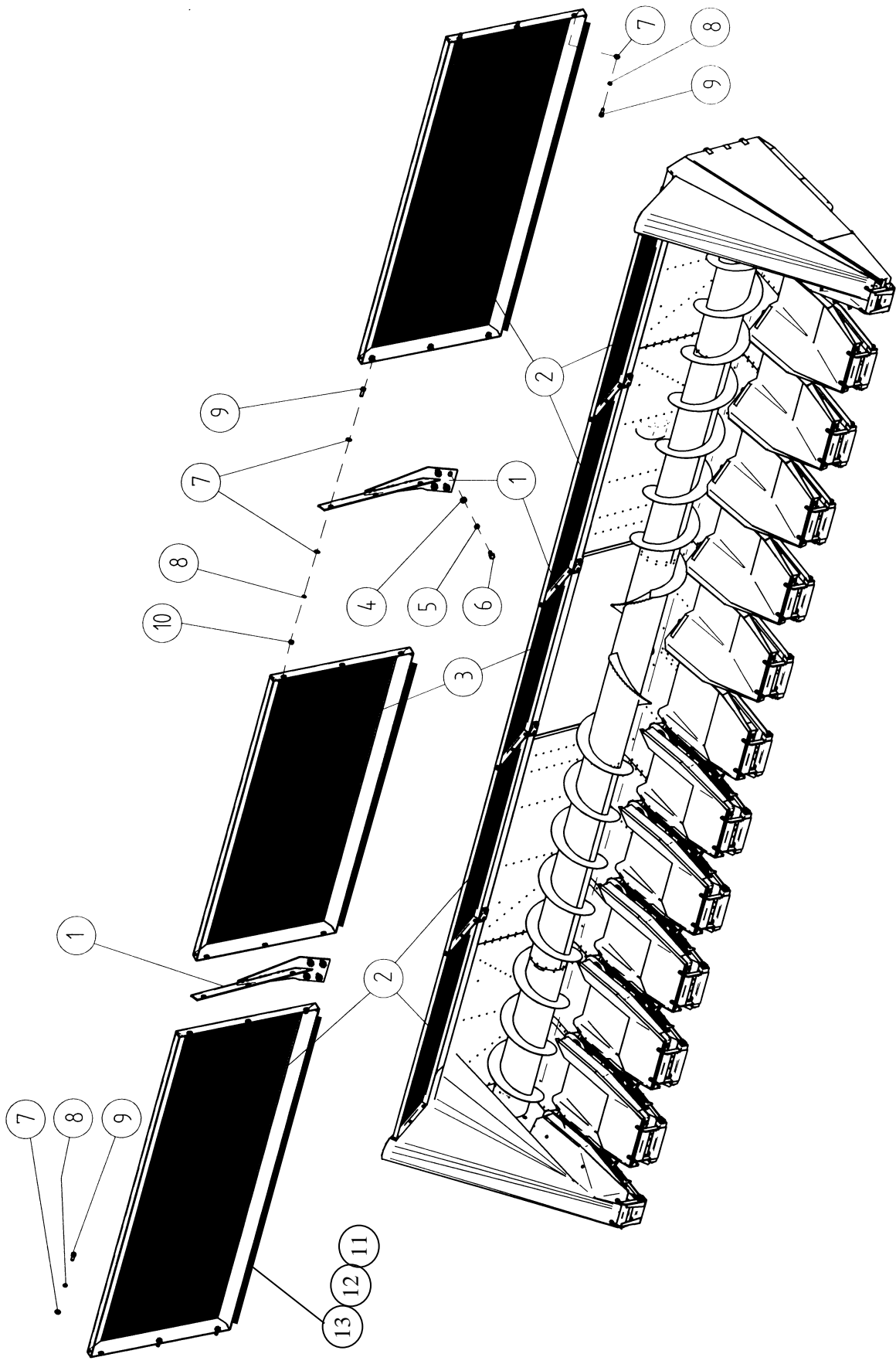
Item #	Description	Part #	Pieces per header by model #		Remarks
			#1222	#1622	
	End shield assy, common, 22" & 20"	01-001-531	1		this part no. / both LH & RH
2	Plate, guide - RH	02-016-814	1	1	
4	Insert, RH	02-016-502	1	1	
6	Plate, guide - RH	02-016-504	1	1	
8	Door hinge, RH	02-016-526	1	1	
10	Door, RH	02-016-532	1	1	
12	Plate, side - RH	02-016-510	1	1	
14	Plate, outer - RH	02-016-568	1	1	
16	Plate, side, upper - RH	02-016-542	1	1	
18	Rod, reinforcement - RH	02-016-570	1	1	
20	Plate, lower - RH	14-016-520	1	1	
			Common to LH & RH		
21	Hinge pivot, door	12-016-518	2	2	
22	Plate bracket	12-005-594	2	2	
23	Bracket	13-016-570	1	1	
24	Rubber strap assy	100-3-4417 *	2	2	Old P/N -- 801-991
25	Washer, flat	M6FW	16	16	
26	Washer, lock	M6LW	8	8	
27	Nut, hex, grade 8.8	M6HN	8	8	
28	Screw, hex.cap, grade 8.8	M6x20	8	8	
29	Washer (previously used wood)	M8W	2	2	
30	Washer, flat	M8FW	15	15	
31	Washer, lock	M8LW	13	13	

\* Sheyenne Part No.



**End Shields, Right Hand**





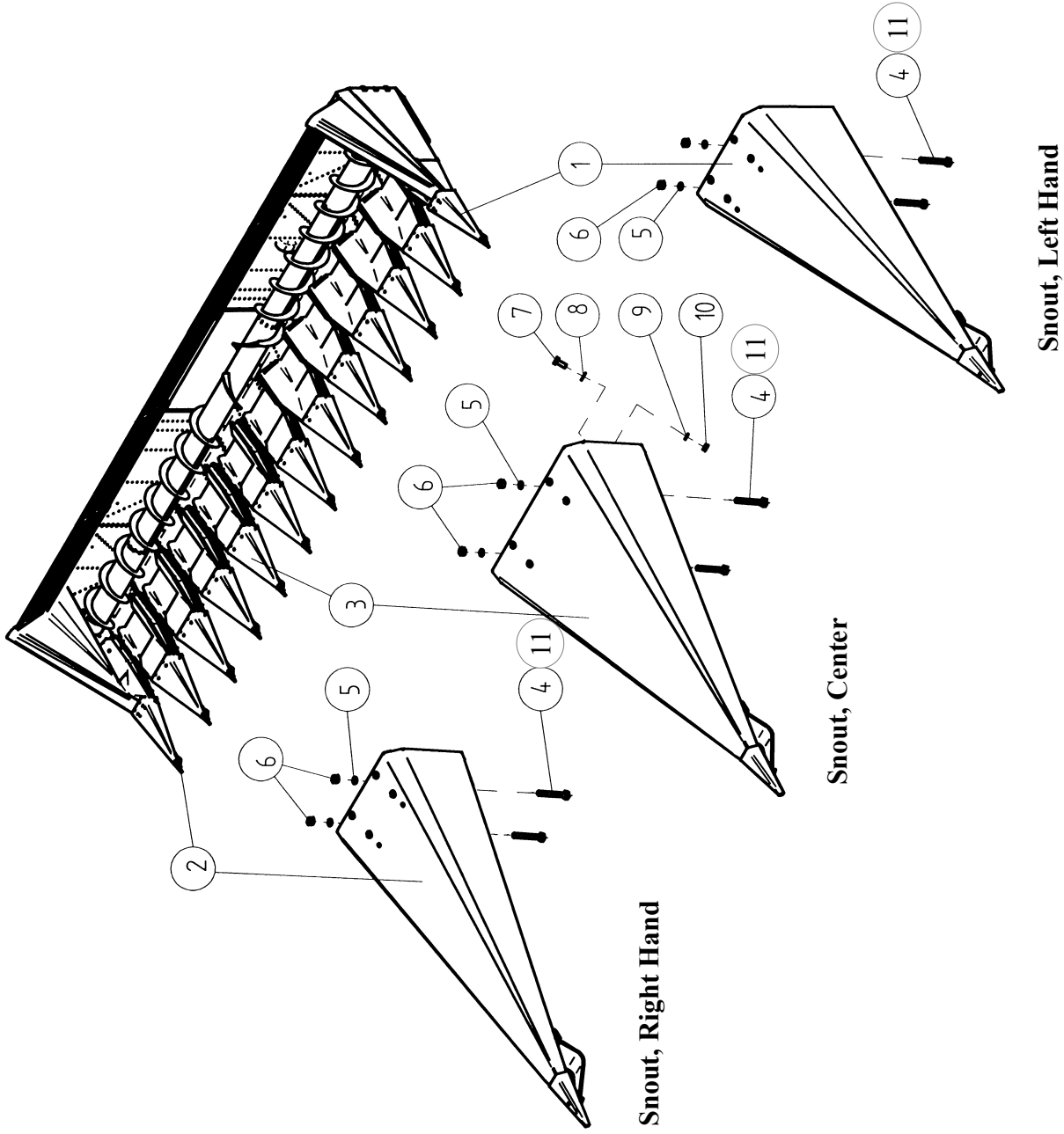
**Rear Screen Assembly**

## Rear Screen Assembly

028

Item #	Description	Part #	Pieces per header by model #		Remarks
			#1222	#1622	
	Rear screen assy, 1222	10-010-734	1		
	Rear screen assy, 1622				
1	Frame, welded	02-006-133	2		
2	Outer frame, welded - 1222	02-010-740	2		
2	Outer frame, welded - 1622				
3	Center screen assy, welded	02-006-431	1		
4	Washer, flat	M12FW	8		
5	Washer, lock	M12LW	8		
6	Screw, hex cap, grade 8.8	M12x30	8		
7	Washer, flat	M10FW	18		
8	Washer, lock	M10LW	12		
9	Screw, hex cap, grade 8.8	M10x30	12		
10	Nut, hex, grade 8.8	M10HN	6		
11	Rivet, pop	04-8x16N	29		
12	# 10x.75 Fender washer	900-11197 *	29		
13	Rubber flap, 1222 screen	65-016-514	1		
13	Rubber flap, 1622 screen				

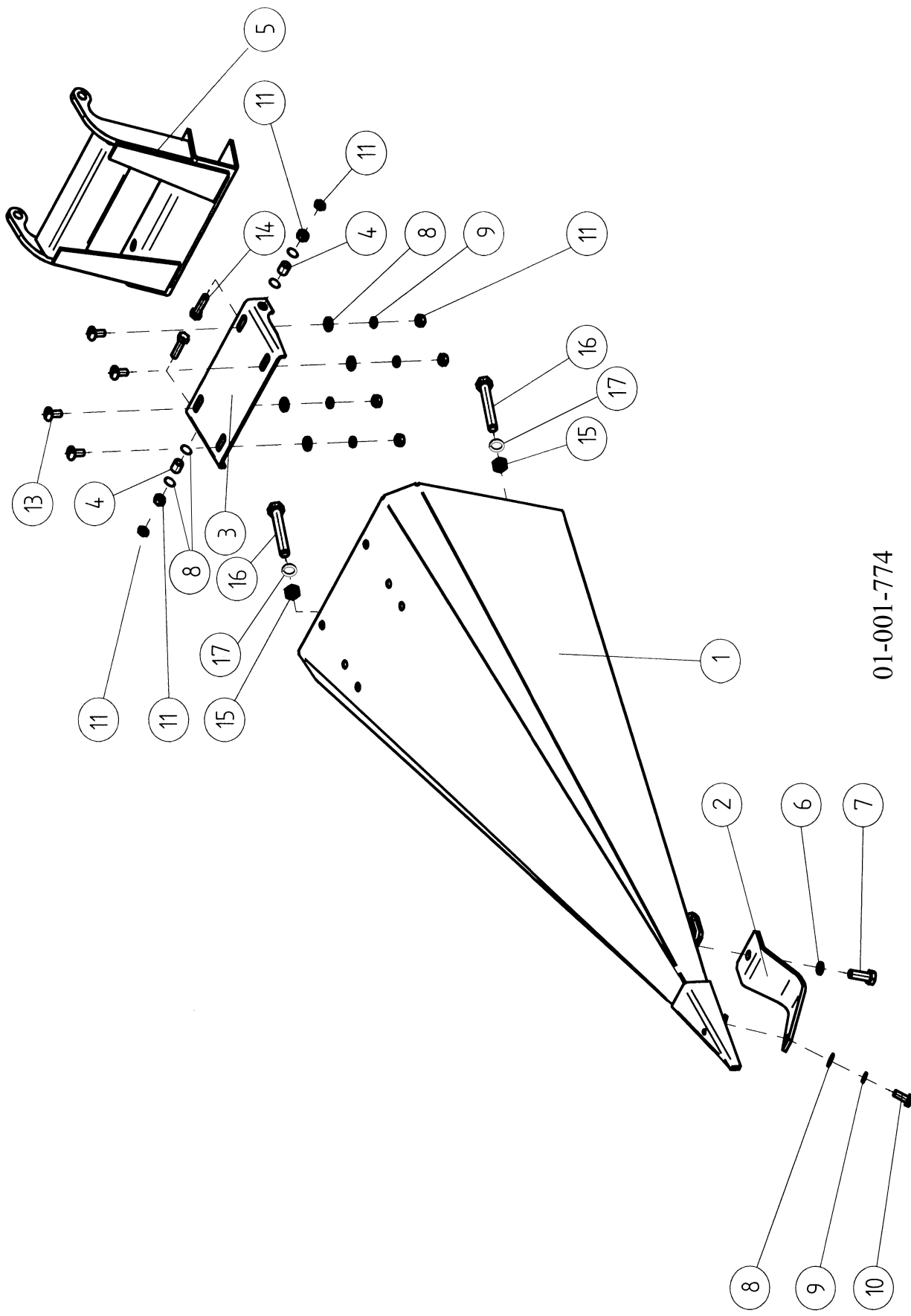
\* Sheyenne part number



**Snouts**



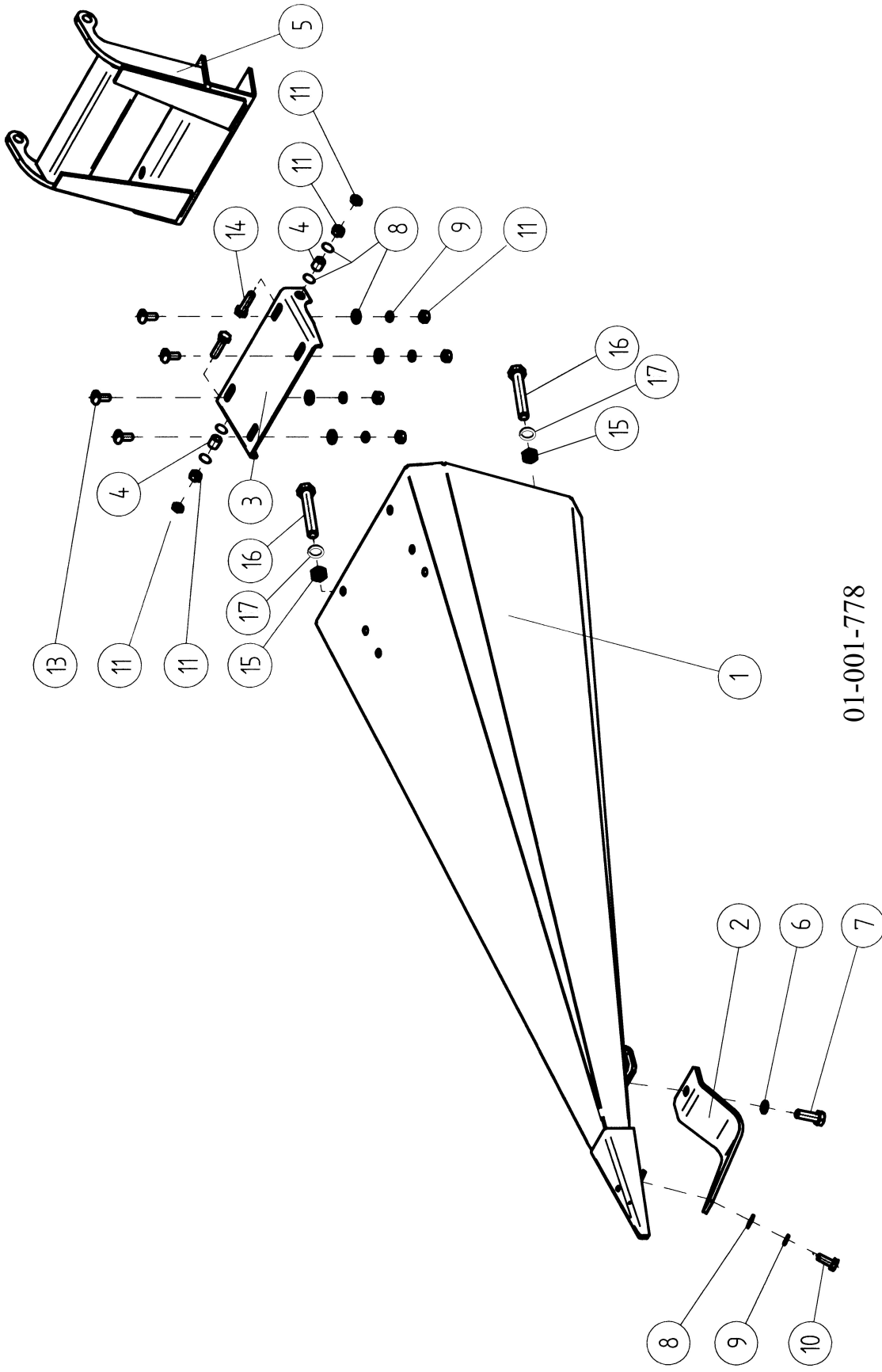




01-001-774

**Snout Assembly, Left Hand - Outer**





01-001-778

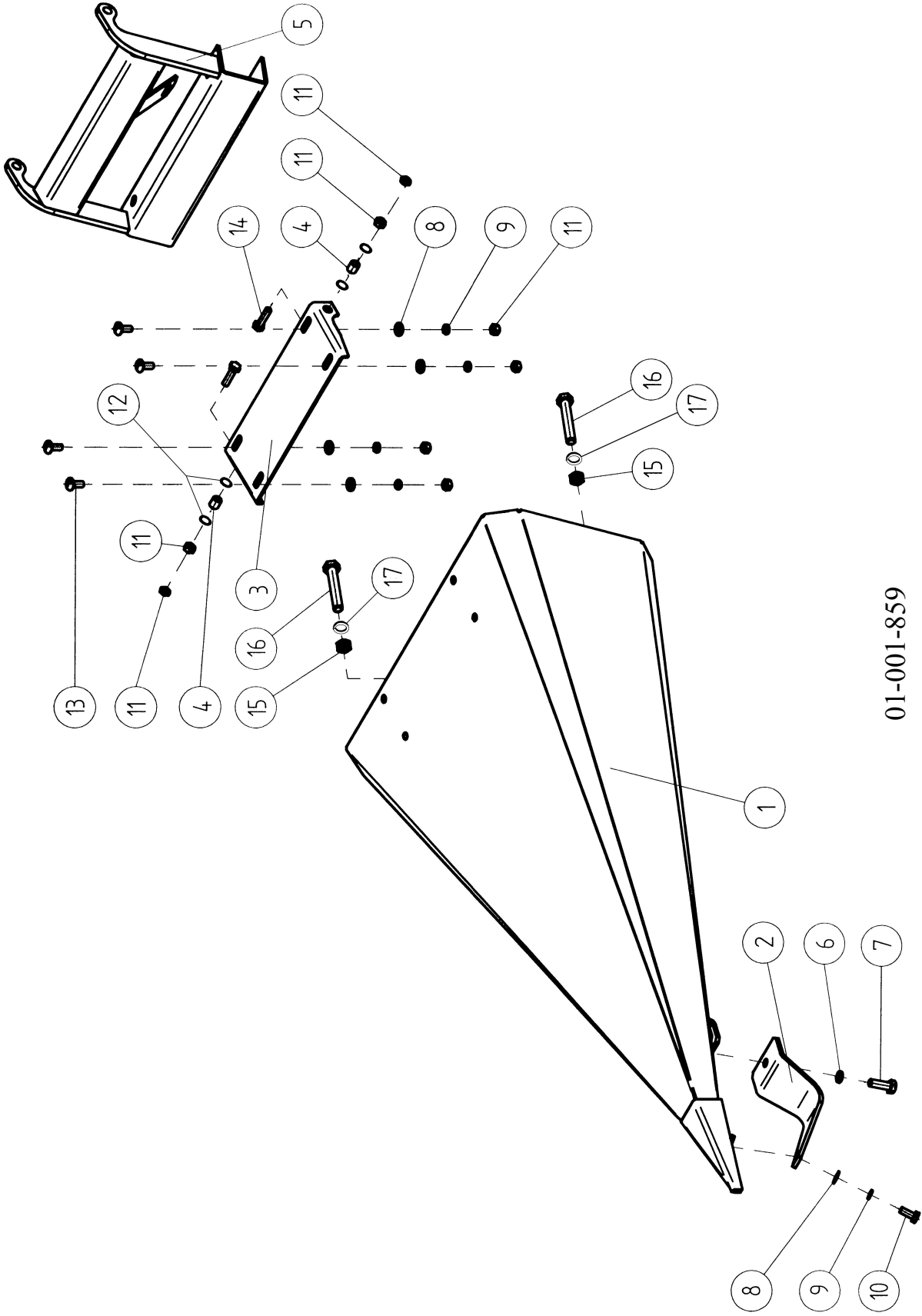
**Snout Assembly, Right Hand - Outer**

**Snout Assy, RH - 20", 22"**

**01-001-778**

**031**

Item #	Description	Part #	Pieces per header by model #		Remarks
			#1222	#1622	
	Snout Assy, RH - Outer - 20", 22"	01-001-778	1	1	All parts
			Pieces per individual unit		
1	Snout W/A, RH - 20", 22"	10-016-772	1	1	USA, snout only
1	Snout W/A, RH	10-016-769	1	1	EU " "
2	Skid, outer snout	14-016-789S	1	1	
3	Hinge, outer snout	14-016-579	1	1	
4	Bushing, divider mount	31-016-775	2	2	
5	Outer snout support bracket	02-015-860	1	1	
6	Washer, lock	M10LW	1	1	
7	Screw, hex cap, grade 8.8	M10x30	1	1	
8	Washer, flat	M8FW	9	9	
9	Washer, lock	M8LW	5	5	
10	Screw, hex cap, grade 8.8	M8x20	1	1	
11	Nut, hex, grade 8.8	M8HN	8	8	
12	(Item number not used)				
13	Set screw, hex cap, grade 8.8	M8x20SL	4	4	
14	Screw, hex cap, grade 8.8	M8x30	2	2	
15	Nut, low hex, grade 04	M12HN	2	2	
16	Screw, hex cap, grade 8.8	M12x100	2	2	
17	Washer, lock	M12LW	2	2	



01-001-859

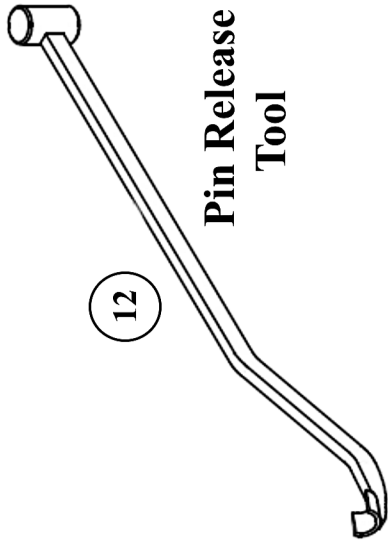
**Snout Assembly, Center**

**Snout Assembly - Center 01-001-859**

**032**

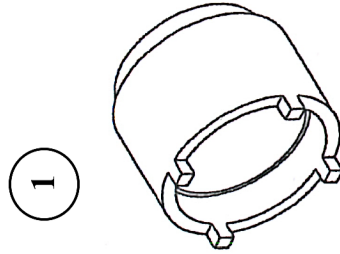
Item #	Description	Part #	Pieces per header by model #		Remarks
			#1222	#1622	
	Snout assy, center - 22 inch	01-001-859	11	15	USA - all parts
	Snout assy	01-015-859	11	15	EU
			Pieces per individual unit		
1	Snout W/A, center - 22 inch	10-015-622	1	1	Snout only
2	Skid, center divider - 20 & 22 inch	14-015-869	1	1	
3	Hinge, center divider - 22 inch	14-015-629	1	1	
4	Bushing, divider mount	31-016-776	2	2	
5	Snout support bracket, 22 inch	02-015-541	1	1	
6	Washer, lock	M10LW	1	1	
7	Screw, hex cap, grade 8.8	M10x30	1	1	
8	Washer, flat	M8FW	5	5	
9	Washer, lock	M8LW	5	5	
10	Screw, hex cap, grade 8.8	M8x20	1	1	
11	Nut, hex, grade 8.8	M8HN	8	8	
12	Washer, fender - 5/16 x 1-1/4	900-11200 *	4	4	
13	Screw, hex cap, grade 8.8	M8x20SL	4	4	
14	Screw, hex cap, grade 8.8	M8x30	2	2	
15	Nut, low hex , grade 04	M12HN	2	2	
16	Screw, hex cap, grade 8.8	M12x100	2	2	
17	Washer, lock	M12LW	2	2	

\* Sheyenne Mfg part number



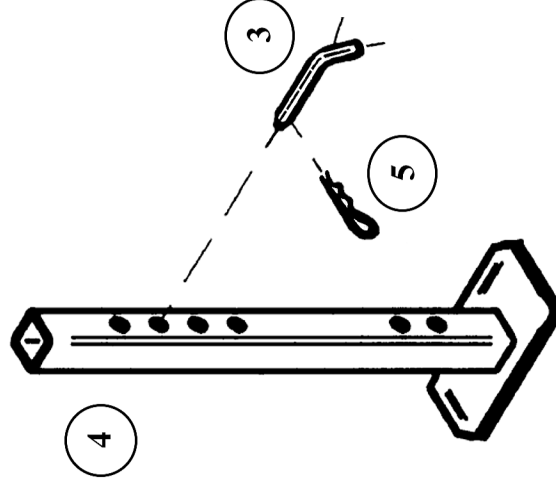
Pin Release Tool

12



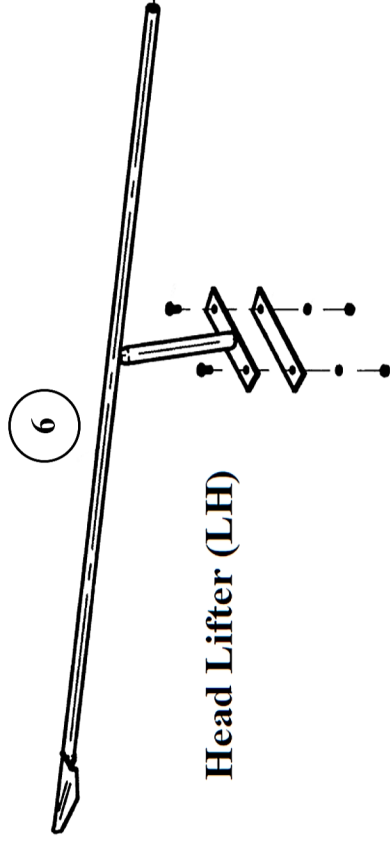
Rotary Cutter Torque Tool

1



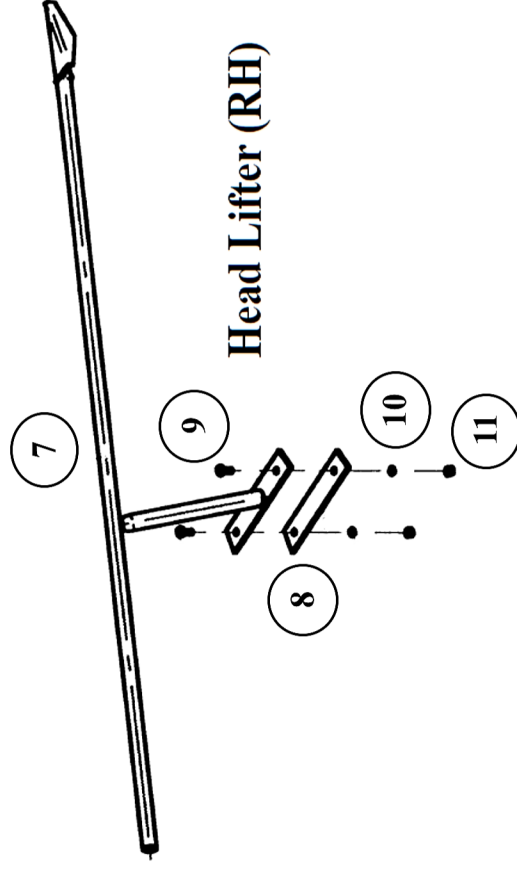
Adjustable Support Stand

2



Head Lifter (LH)

6



Head Lifter (RH)

7

9  
8  
10  
11

## Special Tools - Detachable & Optional Parts

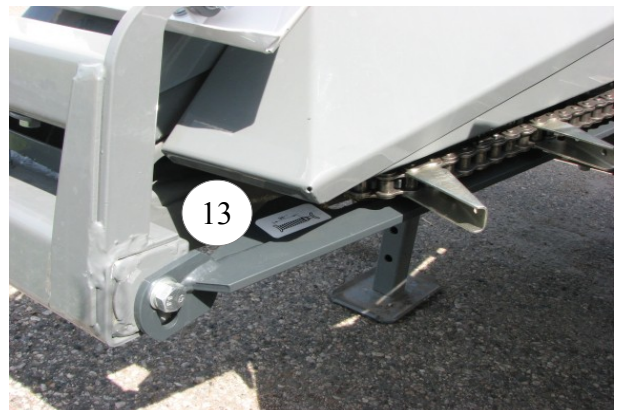
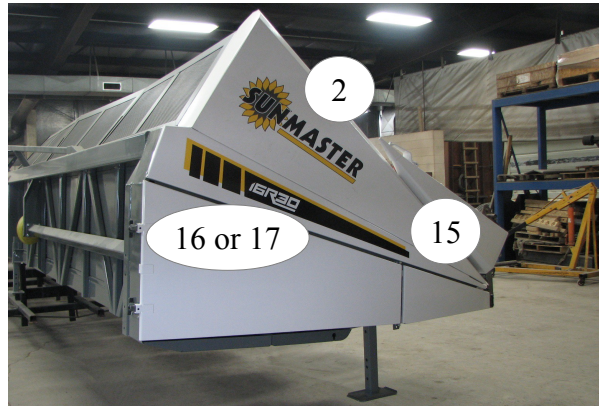
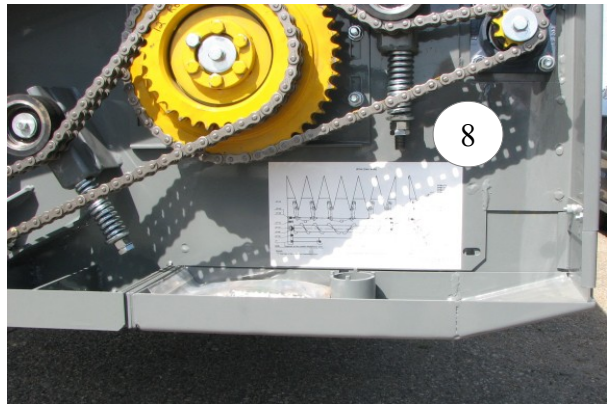


### Special Tools - Detachable & Optional Parts

033

Item #	Description	Part #	Pieces per header by model #		Remarks
			#1222	#1622	
1	Tool, torque - rotary cutter	02-016-139	1	1	Torque slip clutches to 120 ft lb * (tool is in spare parts kit)
2	Stand assy, support, adjustable	01-001-041	>	>	Part number for 1 assy
3	Pin, jack stand	905-23028	4	4	(Four assemblies per header,
4	Stand, support	02-011-341	4	4	three sub-parts in each)
5	Key, hairpin	900-25005	4	4	
6	Head lifter, welded - LH	10-016-774	1	1	Optional feature, to aid left and
7	Head lifter, welded - RH	10-016-767	1	1	right end dividers
			Needed with both LH & RH Lifters Above		
8	Bracket, mounting, head lifter	13-016-803	2	2	
9	Screw, hex hd cap, grade 8.8	M8x20	4	4	
10	Washer, lock	M8LW	4	4	
11	Nut, hex, grade 8	M8HN	4	4	
12	Pin release tool, curved	70-001-101	1	1	(For 20 and 22 inch row headers)

\* Used on item no. 18, pp 42 & 43



**Decals**

**035**

Item #	Description	Part #	Pieces per Header by model #		Remarks
			#1222	#1622	
1	Decal, moving parts - keep hands ---	69-016-204	2	2	
2	Decal, Sunmaster, Sunflower	69-016-206	2	2	Logo (2014)
3	Decal, crane hook	69-016-050	2	2	
4	Decal, rotating driveline	69-016-203	2	2	
5	Decal, check bolts and nuts	69-016-054	1	1	
6	Decal, stay clear of machine	69-016-058	1	1	
7	Decal, read operators manual	69-016-055	1	1	
8	Decal, drive system	69-016-048	2	2	
9	Decal, keep hands, feet, hair, clothing	69-016-059	1	1	
10	Decal, stay clear of machine	69-016-057	1	1	
11	Decal, read operators manual	69-016-051	1	1	
12	Decal, manufacturer	69-016-063	1	1	
13	Decal, setting - tension	69-016-049	12	16	
14	Decal, stripe - left side	69-016-207	1	1	
15	Decal, stripe - right side	69-016-208	1	1	
16	Decal, 12R22 - model	69-016-212	2		
17	Decal, 16R22 - model	69-016-213		2	

## Kit No. 01-002-001

Suggested **DEALER PARTS KIT** for the Sunmaster Header

A list of parts that may become worn or damaged in use

22" manual

Seq	Qty / Kit	Part Number	Part Name	Item Number	Page Found
1	2	02-006-035	Hub, blade	11	42 & 43
2	2	06-006-056	Sprocket, bearing assy -17 tooth	6	44, 45, & 46
3	1	100-3-4417	Rubber strap assy (new part no.)	24	56,57,58,60,61
4	"	801-991	" " " (old part no.)	"	"
5	4	10B2-13	Chain & coupler- 13 link-double roller	10a	6 & 7
6	6	13-004-300	Shim, 1mm (new part no.)	5	42 & 43
7	"	2-600-181/A	Washer, gapping (old part no.)	"	"
8	6	13-004-301	Shim, 0.5mm (new part no.)	6	42 & 43
9	"	2-600-181/B	Washer, gapping (old part no.)	"	"
10	4	13-004-303L	Locking tab	9	42 & 43
11	2	13-004-304	Plate, locking - 5 ext tooth / 2 int tabs	17	42 & 43
12	2	13-016-496	Cover, seal	21	10 & 11
13	4	29-004-302	Bushing, upper (new part no.)	8	42 & 43
14	"	2-600-180	" " (old part no.)	"	"
15	4	29-016-911	Disk, upper	14	42 & 43
16	4	29-016-912	Plate, pressure	15	42 & 43
17	1	30-004-227	Shaft, gearbox - vert. (new part no.)	6/14/4	8,9/10,11/12,13
18	"	2-600-243/3	" " " (old part no.)	"	"
19	2	30-MSZ232	Ring, snap	19	10 & 11
20	4	32-004-319	Bushing, cutting blade	20	42 & 43
21	2	33-027-249	Nut, round - (4) slots - M40X1.5	18	42 & 43
22	4	34-004-183	Key, flat, round end - 8x7x45mm	16	10 & 11
23	4	34-004-235	Key, flat, round end - 8x7x25mm	13/12	10 & 11/12 & 13
24	4	51-016-495	Washer, belleville spring	16	42 & 43
25	2	54-006-080	Chain, gathering	26	44, 46 & 47
26	8	61-016-910	Friction disk, drive	12	42 & 43
27	6	CL10B2	Connector link, dbl - drive assy	11	6 & 7
28	2	GATHERCONN	Connector, chain - ANSI 60-1 *	27	44, 46 & 47
29	2	M10X80	Screw, hex cap 10x80 mm	10	32,33 / 42,43
30	4	Z30X40X7	Seal	5	8 & 9

\* Note: This is a standard No. 60 chain connector, can be obtained locally.

**Kit No. 01-002-002**

**CUSTOMER SPARE PARTS KIT for the Sunmaster Header**

Parts that may become worn in use or be damaged.

22" manual

<b>Seq</b>	<b>Qty / Kit</b>	<b>Part Number</b>	<b>Part Name</b>	<b>Item Number</b>	<b>Page Found</b>
1	6	06X22	Rivet	22	42 / 43
2	1	10B2-13	Chain, coupler - 13 link - double	10a	6 / 7
3	2	13-006-037	Cutting blade (sickle section)	21	42 / 43
4	1	CL10B2	Connector link, double - 5/8	11	6 / 7
5	1	CL12B2	Connector link, double - 3/4	10	28 / 29
6		12A-1	" " " (old part no.)	"	"

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