

This is a downloadable version of the manual. A partial download may not contain all pertinent information. Make Sure to read Chapter 1, Safety!  
Due to ongoing upgrades specifications may change without notice, contact a Monosem Rep for current information.

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**TRANSMISSION**

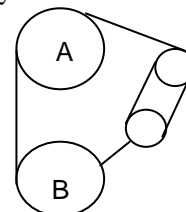
**Pull-Type, Rigid Frame**

**PLANTING RATE CHART**

The following planting distances were obtained with standard assembly and sprocket system. Additional settings are possible by using different combinations or special sprockets. Please consult us in case you have such special requirements.

Important: Poor alignment of the sprockets of the seed spacing gearbox and stiffness of the chain will cause premature side wear on the pinions. Make sure the chains are tight and properly lubricated, and the tires are properly inflated.

**The indicated spacings are theoretical and may vary from 5-10% depending on soil conditions.**



Number of holes in the Seed Disc.

		Transmission sprocket selection																	
Driver-A		26	24	28	26	24	28	26	26	24	23	26	23	24	23	19	17	14	14
Driven-B		14	14	17	17	17	23	23	24	23	24	28	26	28	28	28	28	24	26

**Seed Spacing (inches)**

	9	12	18	24	30	36	40	48	60	72	90	120	180				
7.9	8.5	8.9	9.5	10.3	12.0	12.9	13.5	14.0	15.2	15.7	16.5	17.0	17.8	21.5	24.1	25.0	27.1
5.9	6.4	6.7	7.2	7.8	9.0	9.7	10.1	10.5	11.4	11.8	12.4	12.8	13.3	16.1	18.0	18.8	20.3
3.9	4.3	4.4	4.8	5.2	6.0	6.5	6.7	7.0	7.6	7.9	8.3	8.5	8.9	10.8	12.0	12.5	13.6
2.9	3.2	3.3	3.6	3.9	4.5	4.8	5.1	5.2	5.7	5.9	6.2	6.4	6.7	8.1	9.0	9.4	10.2
2.4	2.6	2.7	2.9	3.1	3.6	3.9	4.0	4.2	4.6	4.7	5.0	5.1	5.3	6.5	7.2	7.5	8.1
2.0	2.1	2.2	2.4	2.6	3.0	3.2	3.4	3.5	3.8	3.9	4.1	4.3	4.4	5.4	6.0	6.3	6.8
1.8	1.9	2.0	2.1	2.3	2.7	2.9	3.0	3.1	3.4	3.5	3.7	3.8	4.0	4.8	5.4	5.6	6.1
1.5	1.6	1.7	1.8	1.9	2.2	2.4	2.5	2.6	2.9	2.9	3.1	3.2	3.3	4.0	4.5	4.7	5.1
1.2	1.3	1.3	1.4	1.6	1.8	1.9	2.0	2.1	2.3	2.4	2.5	2.6	2.7	3.2	3.6	3.8	4.1
1.0	1.1	1.1	1.2	1.3	1.5	1.6	1.7	1.7	1.9	2.0	2.1	2.1	2.2	2.7	3.0	3.1	3.4
0.8	0.9	0.9	1.0	1.0	1.2	1.3	1.3	1.4	1.5	1.6	1.7	1.7	1.8	2.2	2.4	2.5	2.7
0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.0	1.0	1.1	1.2	1.2	1.3	1.3	1.6	1.8	1.9	2.0
0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.8	0.9	0.9	1.1	1.2	1.3	1.4

G3 (3/26/12)

**TRANSMISSION**

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**TWIN – ROW  
 DENSITIES – SEED POPULATION CHART**

AVG SEED SPACING	ROW SPACING			
	30"	36"	38"	40"
1"	418,400	348,800	330,000	313,600
2"	209,200	174,400	165,000	156,800
2 3/4"	152,000	126,800	120,000	114,000
3 1/4"	128,800	107,200	101,600	96,400
3 1/2"	120,200	100,000	94,800	90,000
3 3/4"	111,600	93,000	88,000	83,600
4"	104,600	87,200	82,500	78,400
4 1/4"	98,400	82,000	77,600	73,800
4 1/2"	93,000	77,400	73,400	69,700
5"	83,600	69,700	66,000	62,800
5 1/2"	76,000	63,400	60,000	57,000
6"	69,700	58,000	55,000	52,220
6 1/2"	64,400	53,600	50,800	48,200
7"	60,100	50,000	47,400	45,000
7 1/2"	55,800	46,400	44,000	41,800
8"	52,500	43,700	41,400	39,350
8 1/2"	49,200	41,000	38,800	36,900
9"	46,600	38,850	36,774	34,950
9 1/2"	44,000	36,700	34,750	33,000
10"	41,900	34,950	33,074	31,450
10 1/2"	39,800	33,200	31,400	29,900
11 1/2"	36,400	30,300	30,700	27,300
12"	34,850	29,000	27,500	26,100
13"	32,200	26,800	25,400	24,100
13 1/2"	31,000	25,900	24,550	23,300
14 1/2"	28,976	24,100	22,850	21,700

**Sync-Row® for MONOSEM Twin-Row**

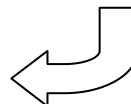
**For Twin-Row planters with Optional Sync-Row® System**

**TIMING CHART 30" ROW SPACING**

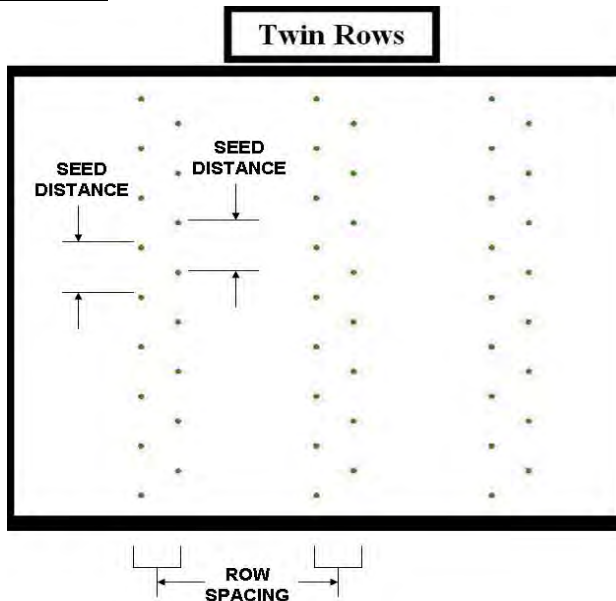
**INSURE THESE VALUES ARE CORRECT FOR YOUR TWIN ROW PLANTER**

**Chart for Adjustable Metering Sprocket**

Crop	<b>Corn</b>
Number of Seed Disk Cells (holes)	<b>18</b>
Row Spacing (inch)	<b>30</b>
Left Row Offset (inches)	<b>18</b>



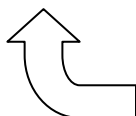
Seed Population (Seeds/Acre)	Seed Distance (inches)	Chart Number
50,000	8 3/8	8
49,000	8 1/2	8
48,000	8 3/4	10
47,000	8 7/8	10
46,000	9 1/8	10
45,000	9 1/4	12
44,000	9 1/2	12
43,000	9 3/4	14
42,000	10	14
41,000	10 1/4	16
40,000	10 1/2	16
39,000	10 3/4	16
38,000	11	18
37,000	11 1/4	18
36,000	11 1/2	0
35,000	12	0
34,000	12 1/4	2
33,000	12 3/4	2
32,000	13	2
31,000	13 1/2	4
30,000	14	4
29,000	14 1/2	6
28,000	15	6
27,000	15 1/2	8
26,000	16	8
25,000	16 3/4	8



ALIGN BOLT WITH CHART NUMBER

ZERO ALIGNS WITH THE BLACK ZERO-LINE

DETERMINE SEED POPULATION YOU ARE PLANTING (OR SEED DISTANCE) AND SET THE ADJUSTABLE SPROCKETS TO THE CORRECT CHART NUMBER



For Instructions on how to set the stagger, please refer to the Sync-Row® section in the Options section of this manual, toward the back of the manual.

**Sync-Row® for MONOSEM Twin-Row**

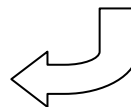
**For Twin-Row planters with Optional Sync-Row® System**

**TIMING CHART 36" ROW SPACING**

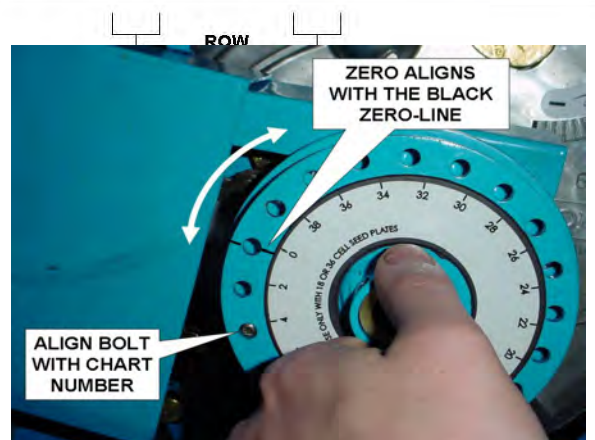
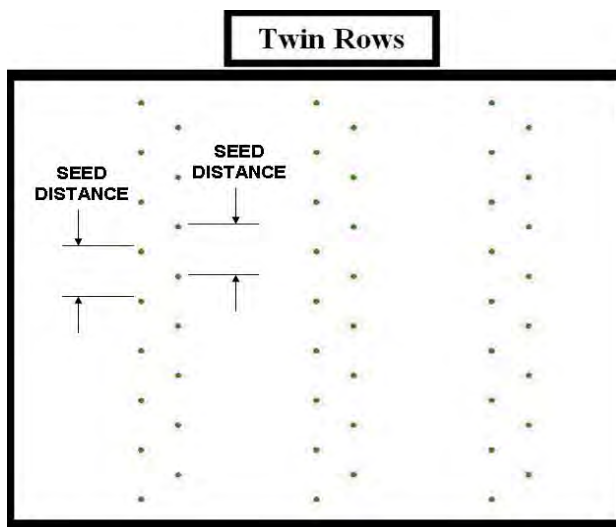
**Chart for Adjustable Metering Sprocket**

Crop	<b>Corn</b>
Number of Seed Disk Cells (holes)	<b>18</b>
Row Spacing (inch)	<b>36</b>
Left Row Offset (inches)	<b>18</b>

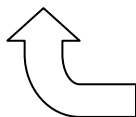
**INSURE THESE VALUES ARE CORRECT FOR YOUR TWIN ROW PLANTER**



Seed Population (Seeds/Acre)	Seed Distance (inches)	Chart Number
<b>40000</b>	<b>8.75</b>	<b>10</b>
39,000	8 7/8	10
38,000	9 1/8	12
37,000	9 3/8	12
36,000	9 5/8	14
35,000	10	14
34,000	10 1/4	16
33,000	10 1/2	16
32,000	11	18
31,000	11 1/4	18
30,000	11 1/2	0
29,000	12	0
28,000	12 1/2	2
27,000	13	2
26,000	13 1/2	4
25,000	14	4
24,000	14 1/2	6
23,000	15 1/4	6
22,000	15 3/4	8
21,000	16 1/2	8
20,000	17 1/2	10
19,000	18 1/4	10
18,000	19 1/4	12
17,000	20 1/2	12
16,000	21 3/4	14
15,000	23 1/4	14



DETERMINE SEED POPULATION YOU ARE PLANTING (OR SEED DISTANCE) AND SET THE ADJUSTABLE SPROCKETS TO THE CORRECT CHART NUMBER



For Instructions on how to set the stagger, please refer to the Sync-Row® section in the Options section of this manual, toward the back of the manual.

**Sync-Row® for MONOSEM Twin-Row**

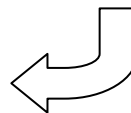
**For Twin-Row planters with Optional Sync-Row® System**

**TIMING CHART 38" ROW SPACING**

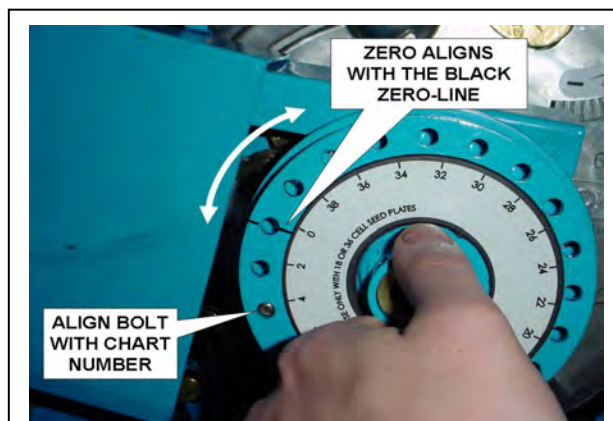
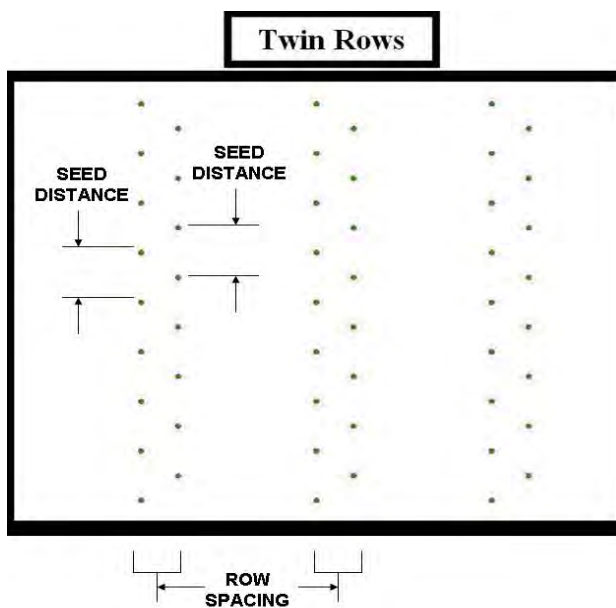
**INSURE THESE VALUES ARE CORRECT FOR YOUR TWIN ROW PLANTER**

**Chart for Adjustable Metering Sprocket**

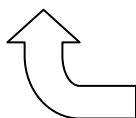
Crop	<b>Corn</b>
Number of Seed Disk Cells (holes)	<b>18</b>
Row Spacing (inch)	<b>38</b>
Left Row Offset (inches)	<b>18</b>



Seed Population (Seeds/Acre)	Seed Distance (inches)	Chart Number
50,000	6 5/8	16
49,000	6 3/4	18
48,000	6 7/8	18
47,000	7	0
46,000	7 1/8	0
45,000	7 3/8	2
44,000	7 1/2	2
43,000	7 3/4	4
42,000	7 3/4	4
41,000	8	6
40,000	8 1/4	6
39,000	8 1/2	8
38,000	8 3/4	10
37,000	9	10
36,000	9 1/4	12
35,000	9 1/2	12
34,000	9 3/4	14
33,000	10	14
32,000	10 1/4	16
31,000	10 3/4	16
30,000	11	18
29,000	11 1/2	18
28,000	11 3/4	0
27,000	12 1/4	0
26,000	12 3/4	2
25,000	13 1/4	4



DETERMINE SEED POPULATION YOU ARE PLANTING (OR SEED DISTANCE) AND SET THE ADJUSTABLE SPROCKETS TO THE CORRECT CHART NUMBER



For Instructions on how to set the stagger, please refer to the Sync-Row® section in the Options section of this manual, toward the back of the manual.

**Sync-Row® for MONOSEM Twin-Row**

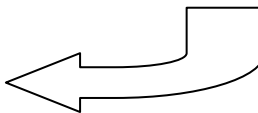
**For Twin-Row planters with Optional Sync-Row® System**

**TIMING CHART 40" ROW SPACING**

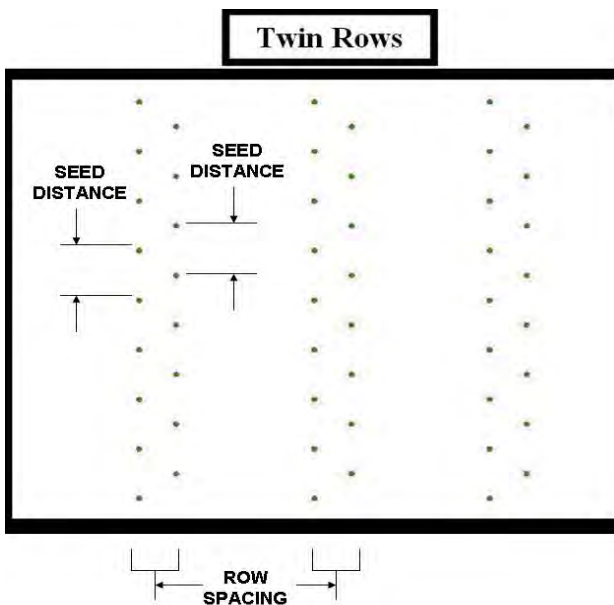
**Chart for Adjustable Metering Sprocket**

Crop	<b>Corn</b>
Number of Seed Disk Cells (holes)	<b>18</b>
Row Spacing (inch)	<b>40</b>
Left Row Offset (inches)	<b>18</b>

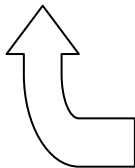
**INSURE THESE VALUES ARE CORRECT FOR YOUR TWIN ROW PLANTER**



Seed Population (Seeds/Acre)	Seed Distance (inches)	Chart Number
50,000	6 1/4	14
49,000	6 3/8	14
48,000	6 1/2	16
47,000	6 5/8	16
46,000	6 7/8	18
45,000	7	0
44,000	7 1/8	0
43,000	7 1/4	2
42,000	7 1/2	2
41,000	7 3/4	4
40,000	7 3/4	4
39,000	8	6
38,000	8 1/4	6
37,000	8 1/2	8
36,000	8 3/4	10
35,000	9	10
34,000	9 1/4	12
33,000	9 1/2	12
32,000	9 3/4	14
31,000	10	14
30,000	10 1/2	16
29,000	10 3/4	18
28,000	11 1/4	18
27,000	11 1/2	0
26,000	12	0
25,000	12 1/2	2



DETERMINE SEED POPULATION YOU ARE PLANTING (OR SEED DISTANCE) AND SET THE ADJUSTABLE SPROCKETS TO THE CORRECT CHART NUMBER



For Instructions on how to set the stagger, please refer to the Sync-Row® section in the Options section of this manual, toward the back of the manual.

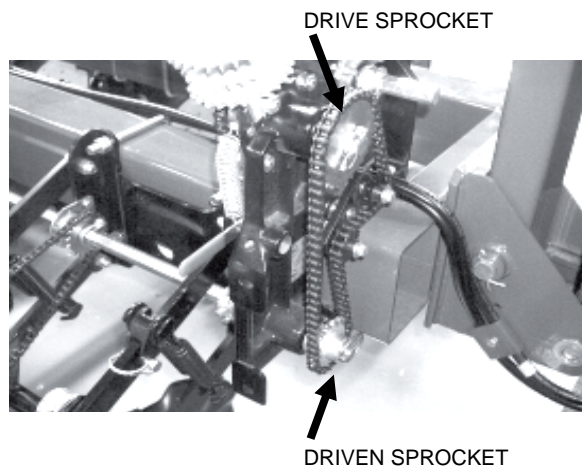
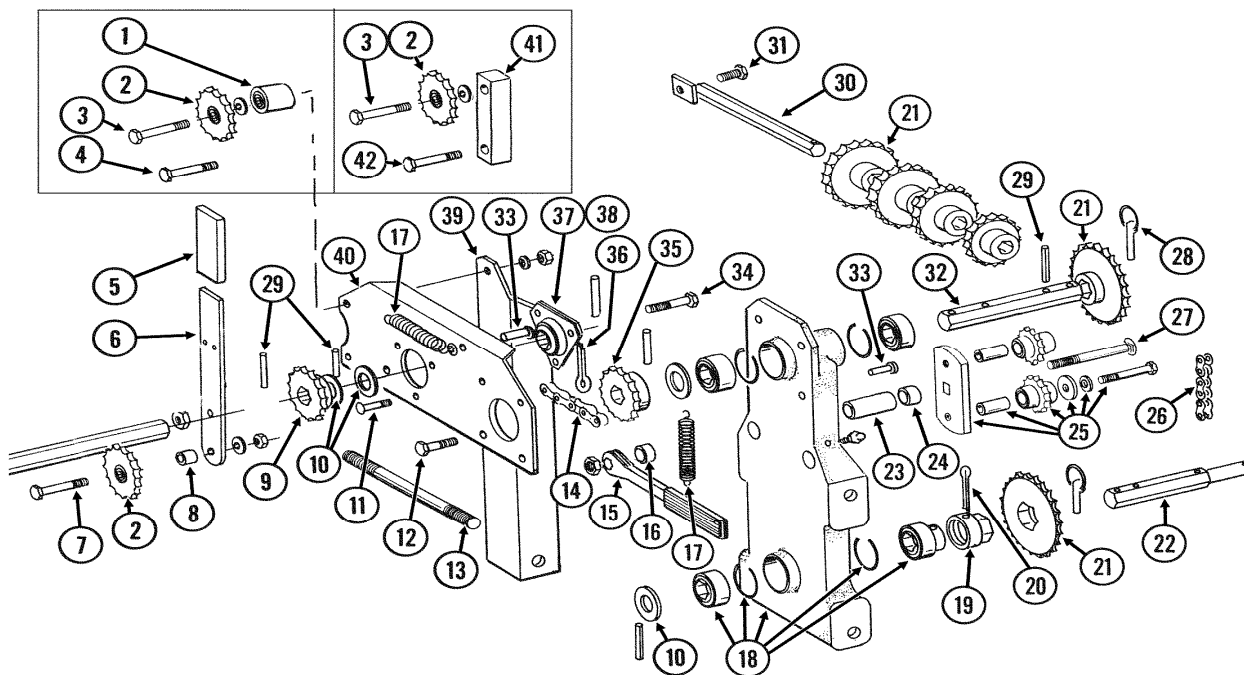
## TRANSMISSION

### Pull-Type, Rigid Frame

#### ADJUSTMENT & ASSEMBLY

Planting population rate changes are made at the end mounted transmission. The planter is designed to allow simple, rapid changes in sprockets to obtain the desired population. By removing the lynch pins on the hexagon shafts, sprockets can be interchanged with those from the sprocket storage rod bolted to the transmission. The planting rate chart will aid you in selecting the correct sprocket combinations.

Chain Tension is controlled by a spring loaded dual sprocket idler. The idler assembly is adjusted with a ratchet arm. This arm has a release position to remove spring tension for replacing sprockets. The amount of spring tension on the chain can be controlled by the ratchet arm.





**TRANSMISSION**

**Pull-Type, Rigid Frame**

ITEM	PART No.	DESCRIPTION
1	KB0259	Spacer 1"
2	KA7154	Idler sprocket 18 tooth
3	K10033	Hex bolt 1/2-13 x 3 1/2
	K10128	Bushing 1/2 x 14GA
	K10228	Lock washer 1/2
	K10102	Hex nut 1/2-13
4	K10039	Hex bolt 1/2-13 x 1 3/4
	K10228	Lock washer 1/2
	K10102	Hex nut 1/2-13
5	KD5827	Cover
7	K10053	Hex bolt 1/2-13 x 2 1/2
	K10128	Bushing 1/2 x 14GA
	K10228	Lock washer 1/2
	K10102	Hex nut 1/2-13
8	KD4887-01	Sleeve 1/2" I.D. x 5/8" long
9	KA5105	Sprocket 15 tooth
10	K10233	Bushing 1" x 10GA
11	K10303	Carriage bolt 5/16-18 x 1
	K10232	Lock washer 5/16
	K10106	Hex nut 5/16-18
12	K10037	Hex bolt 1/2-13 x 1 1/4
	K10228	Lock washer 1/2
	K10102	Hex nut 1/2-13
13	KD6793	Stud 5/8-11 x 9 1/2
	K10230	Lock washer 5/8
	K10107	Lock nut 5/8-11
14	K3310-92	Chain No.40 x 92 pitches
15	KA4235	Ratchet arm w/sleeve
	K10445	Sleeve only
16	KD10161	Spacer 3/8"
17	KD5857	Spring
18	KA5629	Transmission plate
	KA5116	Bearing 7/8 hex bore cylindrical
	KA5624	Special bearing
	KD6551	Ring
	K10640	Grease fitting 1/4-28
19	KD7127	Shear coupling
20	K10462	Cotter pin 3/16 x 2
21	KA5106	Sprocket, 17 tooth
	KA5107	Sprocket, 19 tooth
	KA5108	Sprocket, 23 tooth

ITEM	PART No.	DESCRIPTION
21	KA5109	Sprocket, 24 tooth
	KA5110	Sprocket, 25 tooth
	KA5111	Sprocket, 26 tooth
	KA5112	Sprocket, 27 tooth
	KA5113	Sprocket, 28 tooth
22	KD7822	Shaft 7/8" x 7"
23	KD3180-16	Sleeve 2 13/16 long
24	KD2734-01	Sleeve 1/2" long
25	KA7336	Idler sprocket assembly
	KD7426	Sprocket only 12 tooth
	KD1026	Sleeve 1 3/16" long
	K10210	Washer 3/8
	K10229	Lock washer 3/8
	K10047	Hex bolt 3/8-16 x 1 3/4
26	K3310-80	Chain No. 40 x 80 pitches
27	K10867	Carriage bolt 1/2-13 x 5
	K10111	Lock nut 1/2-13
28	KD2558	Lynch pin 1/4
29	K10602	Spring pin 1/4 x 1 1/2
30	KA5146	Sprocket storage rod
31	K10017	Hex bolt 1/2-13 x 1 1/2
	K10228	Lock washer 1/2
	K10102	Hex nut 1/2-13
32	KD5835	Shaft 7/8" x 7"
33	K10478	Clevis pin 5/16 x 1
	K10409	Retaining ring 5/16
34	K10001	Hex bolt 3/8-16 x 1
	K10229	Lock washer 3/8
	K10203	Washer 3/8 SAE
	K10210	Washer 3/8 USS
	KD5756	Special nut
35	KA5107	Sprocket 19 tooth
	<b>KA5112</b>	<b>Sprocket w/ Sync-Row® 27 tooth</b>
36	K10460	Cotter pin 1/4 x 2
37	K2100-03	Bearing 7/8 hex bore spherical
38	K3400-01	Flangette
39	KD5830	Angle support R.H.
40	KD5824	Plate R.H.
41	KD12571	Spacer 1" x 4"
42	K10053	Hex bolt 1/2-13 x 2 1/2
	K10228	Lock washer 1/2
	K10102	Hex nut 1/2-13