



## Seed Box Agitator Installation Instructions

Used with:

- 1205NT



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!

## General Information

These instructions explain how to install a seed box agitator on the model 1205NT drill.

These instructions apply to an installation of:

Kit	Kit Description
118-593A	12' EWNT 7 AGITATOR W/DRV
118-594A	12' EWNT 7.5 AGITATOR W/DRV
118-595A	12' EWNT 8 AGITATOR W/DRV
118-596A	12' EWNT 10 AGITATOR W/DRV
118-600A	12' EWNT 7 AGITATOR W/O DRV
118-601A	12' EWNT 7.5 AGITATOR W/O DRV
118-602A	12' EWNT 8 AGITATOR W/O DRV
118-603A	12' EWNT 10 AGITATOR W/O DRV
118-604A	12' EWNT 7 AGIT W/ DRV-FLD
118-605A	12' EWNT 7.5 AGIT W/ DRV-FLD
118-606A	12' EWNT 8 AGIT W/ DRV-FLD
118-607A	12' EWNT 10 AGIT W/ DRV-FLD
118-608A	12' EWNT 7 AGIT W/O DRV-FLD
118-609A	12' EWNT 7.5 AGIT W/O DRV-FLD
118-610A	12' EWNT 8 AGIT W/O DRV-FLD
118-611A	12' EWNT 10 AGIT W/O DRV-FLD

One kit equips one drill.

### Compatibility

This kit is compatible with all vintages and row spacings of model 1205NTs manufactured after 2001-07-01. It is not compatible with model 1200, 1210 or 1220 3-point drills.

### Parts and Tools Required

- Basic hand tools, including a protractor.
- Two people suggested for shaft installation.

### **CAUTION**

#### **Possible Chemical Hazard**

This installation requires contact with interior components of the main seed box. If treated seed has ever been used in the box, follow chemical supplier instructions for protective equipment and cleaning residue from the seed box.

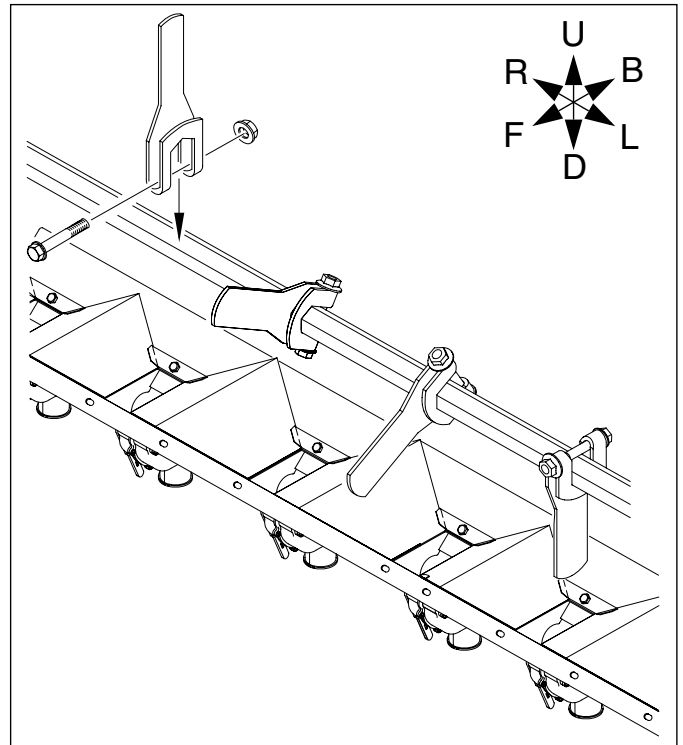


Figure 1  
Agitator Kit

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### Related Documents

Have the Operator Manual at hand for drill movements.

150-131M      1205NT Operator Manual

Have the current Parts Manual at hand for parts ID.

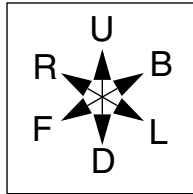
150-131P      1205NT Parts Manual

## Notations and Conventions

The following terms are used throughout this manual.

Note: Paragraphs in this format provide useful information related to the current topic.

“Left” and “Right” are facing in the direction of machine travel. An orientation rose in the line art illustrations shows the directions of Left, Right, Front, Back, Up, Down.



## Call-Outs

① to ⑨

Single-digit callouts identify components in the currently referenced Figure or Figures.

⑪ to ⑺⑧

Two-digit callouts in the range 11 to 78 reference new parts (see list on page 12).

## Before You Start

### Inventory

Make sure all parts are present.

### Comprehension

Review these instructions. Make sure the installers understand where each part or assembly is installed, and what tools are required for the task.

## Pre-Assembly Preparation

### Work Location

1. Move the drill to a location with:
  - adequate illumination; and,
  - clear surface beneath for recovery of any fallen or dropped parts - if the surface is not clear, have a tarp or drop cloth available.
2. Clean out the main seed boxes. See Operator Manual for instructions.

If treated seed has been used, open seed cup doors to clean-out position, wash out the boxes, thoroughly rinse the boxes, and allow them to dry.

Do this in a suitable location other than where the installation work is to be performed.

3. Lower drill.
4. Set all hydraulic remote circuits to Float (to ensure that pressure is relieved). Shut off tractor or hydraulic source.
5. Put the tractor in Park. Remove the key.

## Assembly Instructions

### Drive Installation

If your drill is equipped with either a Small Seeds or Fertilizer Attachment, a majority of the drive system is already in place. If this is the case, continue at “**Agitator Shaft Installation**” on page 5.

### Bearing Mount Plate

Start at the left side of the drill.

Refer to *Figure 2*

1. Remove the two front  $\frac{1}{2} \times 1$  inch<sup>a</sup> long bolts ① that join the box to the frame. Save the lock washers ② and hex nuts ③. Bolts are not reused.
2. Select one new:  
 ④ 123-517D REAR DRIVE BRG MOUNT PLATE LH  
 two sets new:  
 ⑤ 802-091C HHCS  $\frac{1}{2}$ -13X1  $\frac{1}{2}$  GR5  
 ⑥ 804-016C WASHER FLAT  $\frac{1}{2}$  SAE PLT  
 and two sets saved lock washers ② and nuts ③.
3. Install the bearing mount ④ using the longer  $\frac{1}{2} \times 1\frac{1}{2}$  inch long bolts ⑤ and flat washers ⑥ from the kit. Leave these bolts loose for now, the slots will be used later to tighten a drive chain.

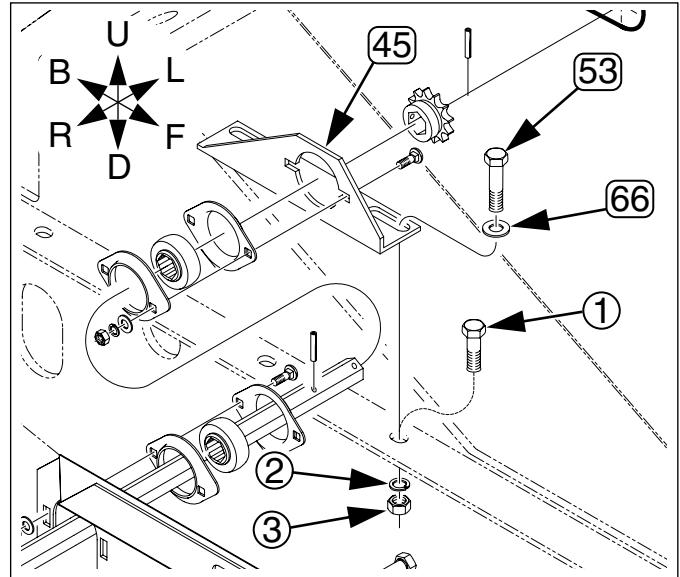


Figure 2  
Bearing Mount

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### Transfer Drive Mount

4. Select one new:  
 ⑦ 118-503D 12'EWNT TRANSFER DRIVE MOUNT  
 two sets new:  
 ⑧ 802-053C HHCS  $\frac{5}{8}$ -11X1  $\frac{3}{4}$  GR5  
 ⑨ 804-019C WASHER FLAT  $\frac{5}{8}$  USS PLT  
 ⑩ 804-022C WASHER LOCK SPRING  $\frac{5}{8}$  PLT  
 ⑪ 803-021C NUT HEX  $\frac{5}{8}$ -11 PLT
5. Attach the transfer drive mount ⑦ to the side of the drill's gauge wheel lug with two  $\frac{5}{8}$  inch x  $1\frac{1}{2}$  inch long bolts ⑧,  $\frac{5}{8}$  inch flat washers ⑨,  $\frac{5}{8}$  inch lock washers ⑩ and  $\frac{5}{8}$  inch nuts ⑪. Leave these bolts loose for now.
6. Select one set new:  
 ⑫ 822-119C BRG 7/8HEXX2.050D SPH  
 ⑬ 822-032C FLANGETTE 52 MST  
 ⑭ 802-282C RHSNB  $\frac{5}{16}$ -18X1 GR5  
 ⑮ 804-009C WASHER LOCK SPRING  $\frac{5}{16}$  PLT  
 ⑯ 803-008C NUT HEX  $\frac{5}{16}$ -18 PLT

Install the two hex bore bearings ⑫ onto the above mount and bracket using the flangettes ⑬ and  $\frac{5}{16} \times 1$  inch long round head square neck bolts ⑭,  $\frac{5}{16}$  inch lock washers ⑮ and  $\frac{5}{16}$  inch nuts ⑯. Be sure to place the bearings on the side of the plates as illustrated.

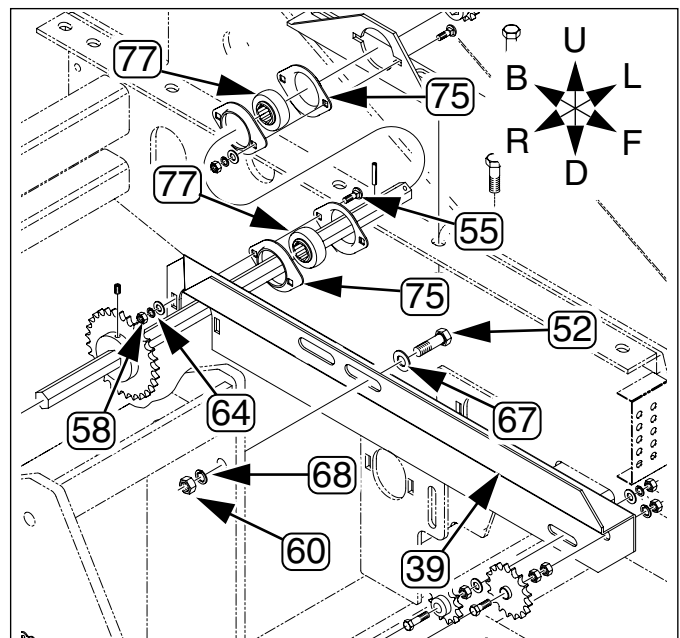


Figure 3  
Transfer Drive Mount

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a. This may be a  $1\frac{1}{2}$  inch long bolt in more recent implements.

## 7. Select one new:

- ④④ 120-233D HEX SHAFT 7/8 X 26 1/2
- ⑥⑨ 805-023C PIN ROLL 3/16X1 1/4 PLT
- ⑦① 808-143C SPKT 40B12 7/8 HEX BORE W/SS

Slide the  $\frac{7}{8}$  inch hex jackshaft ④④ through the hex bore bearings ⑦⑦ with the end of the shaft with multiple holes toward the left end of the drill. Trap the shaft by driving a  $\frac{3}{16}$  x  $1\frac{1}{4}$  inch long roll pin ⑥⑨ on either side of the bearing ⑦⑦ and 12 tooth sprocket ⑦①.

## 8. Select one new:

- ⑦② 808-167C SPKT 40B14 X 3/4 HEX BORE
- ⑥⑨ 805-023C PIN ROLL 3/16X1 1/4 PLT

Install the 14 tooth sprocket ⑦② onto the lower jackshaft with the hub oriented as shown. Pin it in place with a  $\frac{3}{16}$  x  $1\frac{1}{4}$  inch long roll pin ⑥⑨.

## 9. Select one new:

- ⑦④ 808-046C SPKT 40A17 IDLER
- ⑤⑥ 802-436C HHCS 5/8-11X3 1/2 FTTHD
- ⑥⑧ 804-022C WASHER LOCK SPRING 5/8 PLT
- ⑥① 803-023C NUT HEX JAM 5/8-11 PLT

Install the 17 tooth ball bearing idler sprocket ⑦④ onto the transfer drive mount ③⑨ using the  $\frac{5}{8}$  inch x  $3\frac{1}{2}$  inch long bolts ⑤⑥,  $\frac{5}{8}$  inch lock washers ⑥⑧ and  $\frac{5}{8}$  inch nuts ⑥①.

## 10. Select one new:

- ⑦④ 817-025C NO. 40 12T IDLER SPKT.
- ⑤⑥ 802-039C HHCS 1/2-13X3 GR5
- ⑥⑤ 804-015C WASHER LOCK SPRING 1/2 PLT
- ⑥② 803-036C NUT HEX JAM 1/2-13 PLT

Install the plastic 12 tooth idler sprocket ⑦④ to the transfer mount with a  $\frac{1}{2}$  x 3 inch long bolt ⑤⑥,  $\frac{1}{2}$  inch lock washer ⑥⑤ and  $\frac{1}{2}$  inch jam nuts ⑥②. Leave the  $\frac{1}{2}$  inch bolt loose for now.

## 11. Select one new:

- ⑦③ 808-194C SPKT 40B22 7/8 HEX BORE & SS
- ④⑦ 136-105D CHAIN RL #40 192 PITCHES

Install and align the 22 tooth sprocket ⑦③ onto the  $\frac{7}{8}$  inch hex jackshaft ④④. Install but do not tighten the 192 pitch drive chain ④⑦.

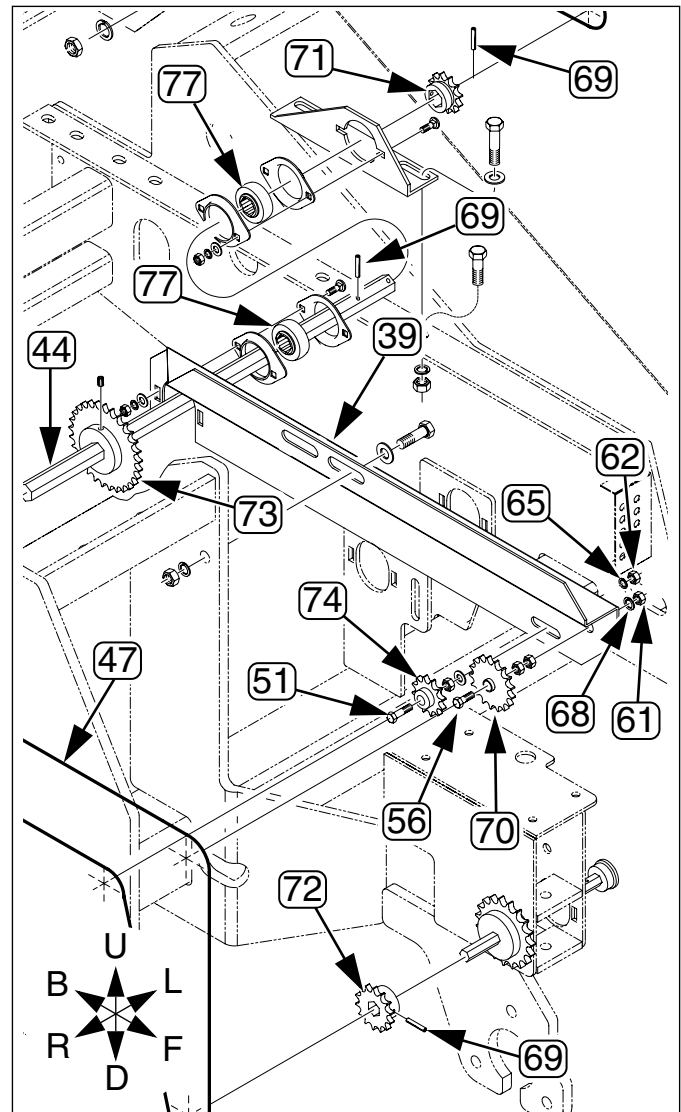


Figure 4  
Transfer Drive Mount

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## Agitator Shaft Installation

If your drill was manufactured before 2001-07-01, remove the left and right box end covers. Save the screws, washers, and nuts for re-use.

Note: For drills manufactured after 2001-07-01,

### Refer to Figure 4:

1. Remove the right and left end bearing cutout cover plates (4). Save the  $\frac{3}{8}$ -16 x  $1\frac{1}{4}$  inch long bolts, and  $\frac{3}{8}$  inch flat and lock washers for reuse in the same location.

### Refer to Figure 5:

2. Select one new:
  - (70) 808-046C SPKT 40A17 IDLER
  - (32) 118-439H AGITATOR IDLER BOLT 5/8-11
  - (68) 804-022C WASHER LOCK SPRING 5/8 PLT
 three each new:
  - (61) 803-023C NUT HEX JAM 5/8-11 PLT

Slide the 17 tooth bearing idler sprocket (70) over the  $\frac{5}{8}$ -11 special square head bolt (32). Run one  $\frac{5}{8}$ -11 jam nut (61) up against the sprocket, and torque to 100 foot-pounds. Run the second  $\frac{5}{8}$ -11 jam nut (61) up on the special bolt and insert the assembly into hole "A" in left-hand idler plate (33) as shown. Adjust this nut until the center of the sprocket is about  $2\frac{1}{2}$  inch from the back side of the idler plate.

3. Install the  $\frac{5}{8}$  inch lock washer (68) and  $\frac{5}{8}$ -11 jam nut (61) and torque to 100 foot-pounds.

Note: If your drill is equipped with a Small Seeds or Fertilizer Attachment, install a second idler bolt and idler sprocket in hole "B". If the second idler is not used, install a  $\frac{5}{8}$ -11 x  $1\frac{1}{4}$  inch long bolt (51), and  $\frac{5}{8}$ -11 jam nut (61) in hole "B". Use the same torque as in Step 2.

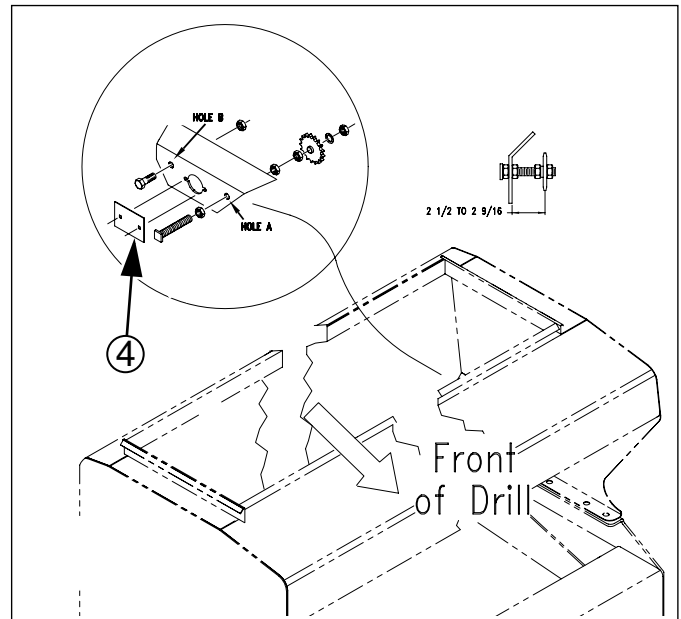


Figure 5  
Box End Cover Removal

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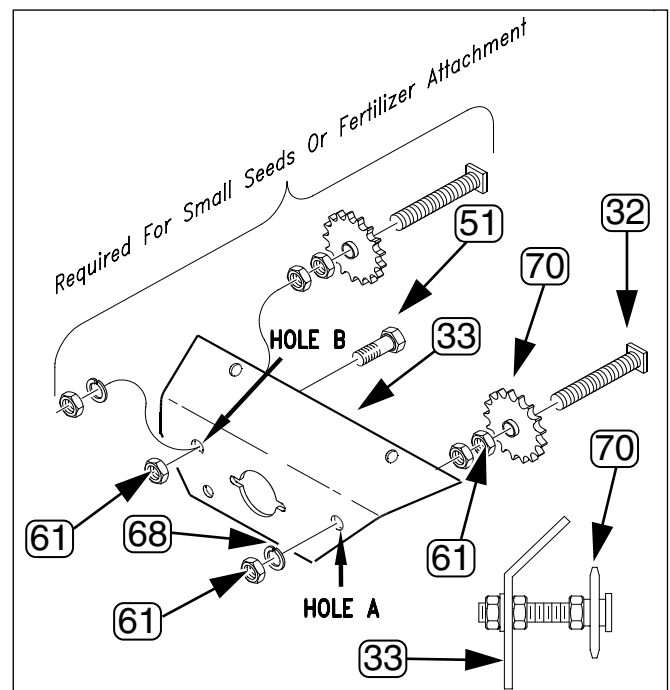


Figure 6  
Small Seed Attachment Agitation

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**Refer to Figure 6**

4. Unpin the top of the hydraulic cylinder located at the left side of the drill and lower the cylinder to the frame in order to access the hex shaft insertion point.
5. Slide the  $\frac{3}{4}$  inch hex shaft (37) into the seed box from the left side of the drill.

Note: The hub of the 17T- $\frac{3}{4}$  inch hex bore sprocket (40) should be turned towards the center of the drill.

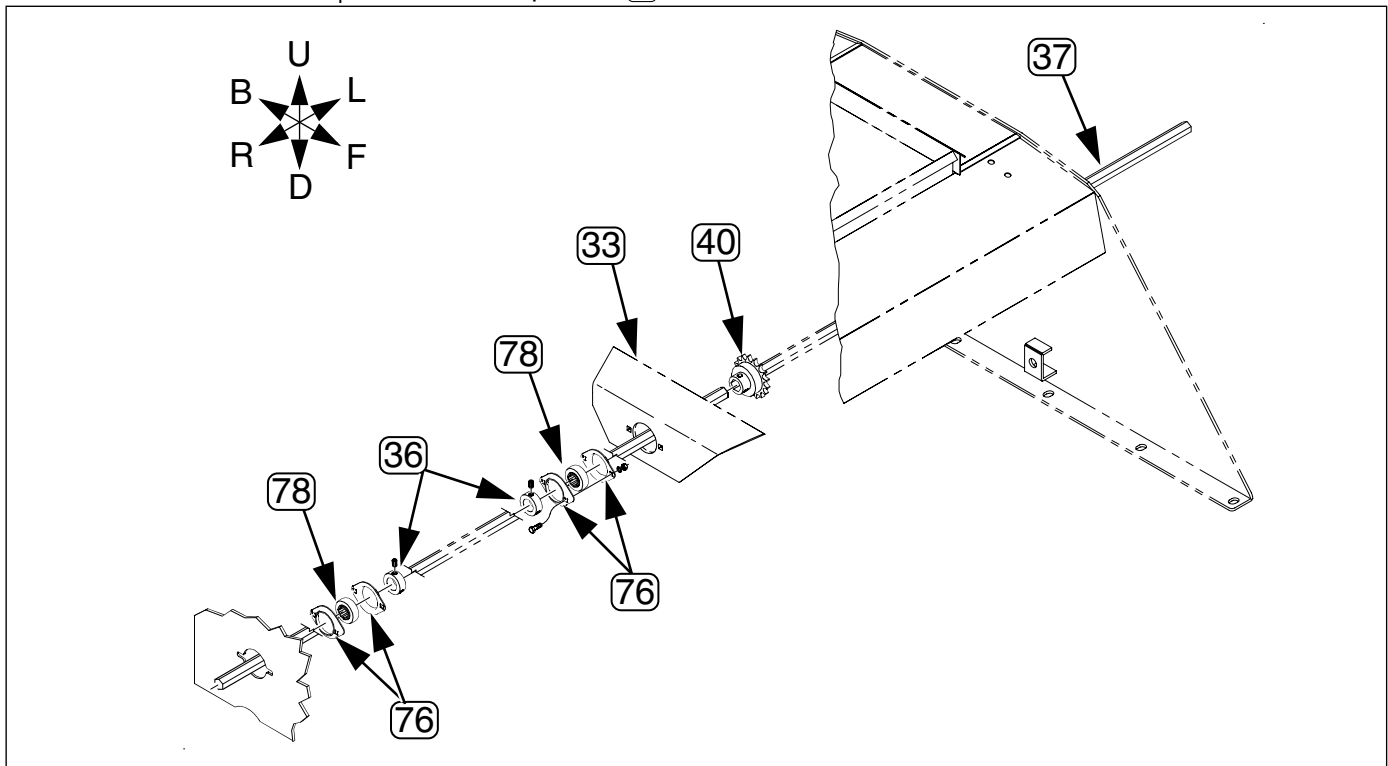


Figure 7  
Small Seed Attachment Agitation

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As the shaft progresses in, slide the following parts, starting at the left, onto the shaft.

- |  |  |
|--|--|
| a. Sprocket, 17T- $\frac{3}{4}$ inch hex bore (40) | i. Flangette-47mst (76)                          |
| b. Idler and bearing plate (33)                    | j. Lock collar- $\frac{3}{4}$ inch hex bore (36) |
| c. Flangette-47mst (76)                            | k. Flangette-47mst (76)                          |
| d. Bearing- $\frac{3}{4}$ inch hex bore (78)       | l. Bearing- $\frac{3}{4}$ inch hex bore (78)     |
| e. Flangette-47mst (76)                            | m. Flangette-47mst (76)                          |
| f. Lock collar- $\frac{3}{4}$ inch hex bore (36)   | n. Flangette-47mst (76)                          |
| g. Flangette-47mst (76)                            | o. Bearing- $\frac{3}{4}$ inch hex bore (78)     |
| h. Bearing- $\frac{3}{4}$ inch hex bore (78)       | p. Flangette-47ms (76)                           |
6. Bolt the  $\frac{3}{4}$  inch hex bore bearings (78) and flangettes (76) to the center panel, partition, and idler plate using  $\frac{5}{16}$ -18 x  $\frac{3}{4}$  inch long round head square neck bolts (54) as shown in Figure 7. Install the  $\frac{5}{16}$  inch lock washer (64) and  $\frac{5}{16}$ -18 nut (58) hand tight.
  7. Bolt the idler plate to the inside of the box using the  $\frac{3}{8}$ -16 x  $1\frac{1}{4}$  inch bolt, flat and lock washer removed in step 1.

## Final Drive Connection

Refer to Figure 8

- Select one new:
  - (46) 136-060D CHAIN RL #40 61 PITCHES or
  - (48) 136-110D CHAIN RL #40 100 PITCHES
- Thread the drive chain (46) back through the cutout in the box, around the agitator sprocket (40) and back to the front 12 tooth sprocket (71) as shown. After connecting the chain, check the alignment of the sprockets. Move the agitator sprocket (40) if needed and hold its alignment by its set screw. Change the position of the idler sprocket as needed by adjusting the  $\frac{5}{8}$  inch jam nuts (61), *Figure 8 on page 7*.
- On drills equipped with the Small Seeds or Fertilizer Attachment, route chain (48) under the second idler, and back around the agitator sprocket (40) as shown.
- Once all the chains are aligned, tighten all the hardware shown in Figures 5 & 6. Be sure to lock the  $\frac{3}{4}$  inch hex bore collar (36) (inside the seed box) against the bearing mounted to the idler plate. This will hold the  $\frac{3}{4}$  inch hex shaft in position.
- Tighten chain (48) or (46), by moving the  $\frac{7}{8}$  inch hex jackshaft (44) forward by using the slots in bearing plates (45) and (39).
- To remove the excess slack from chain (47) coming from the gauge wheel, move the 12 tooth idler sprocket (74) forward and tighten.
- Raise the hydraulic cylinder back into operating position and re-pin.

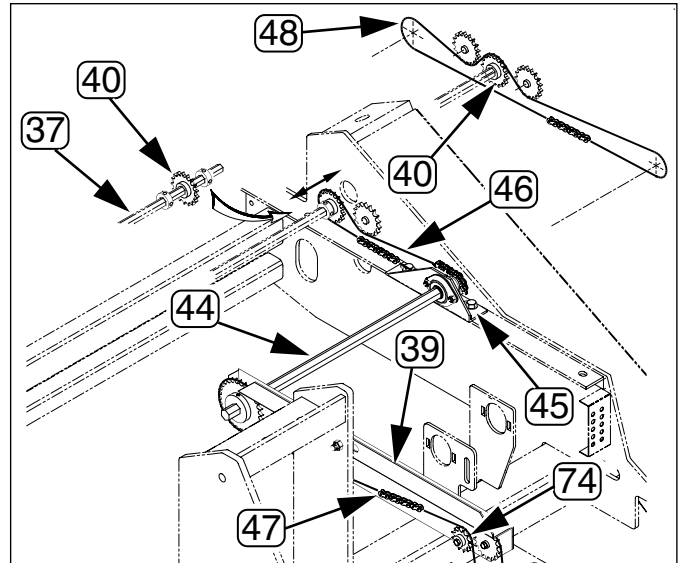


Figure 8  
Small Seed Attachment Agitation

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## Agitator Paddle Installation

Refer to Figure 8:

8. Select as needed:

③⑤ 118-493D AGITATOR PADDLE 3/4 HEX

⑤⑦ 802-448C HFSS 1/4-20X2 GR5

⑥③ 803-088C NUT HEX LOCK 1/4-20 FLG

Slip one paddle ③⑤ over the hex shaft directly above a feed cup. Insert a 1/4-20 x 2 inch long hex flange bolt ⑤⑦ through the paddle and secure with a 1/4 inch hex flange lock nut ⑥③. Before tightening a paddle or group of paddles, carefully rotate the drive system to make sure paddles do not hit the tray dividers.

9. After checking for interference, torque the paddle bolts to 9 foot-pounds. (108 inch-pounds.)

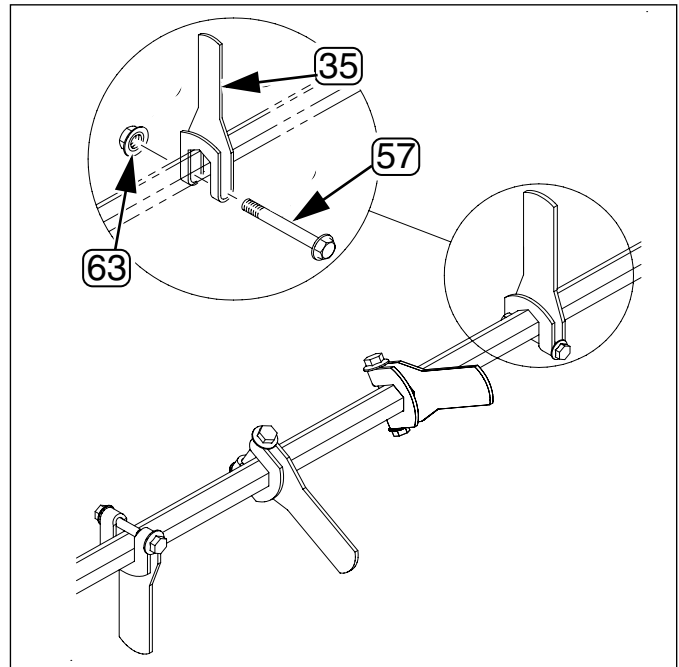


Figure 9  
Agitator Kit

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10. Install the next paddle over the next feeder cup. Index this paddle 1/6<sup>th</sup> of a turn by sliding it onto the next set of flats. Continue the installation, using the next set of flats for each paddle. The fully assembled shaft will have a built in spiral when finished.

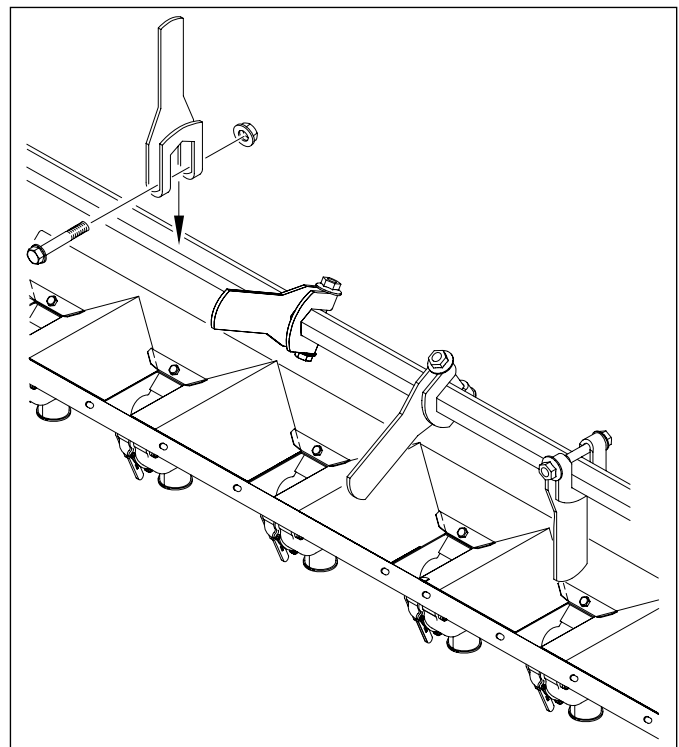


Figure 10  
Agitator Kit

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## Close-Out

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Raise the drill to transport height. Verify that the chains lift the agitator to adequate ground clearance. If more clearance is desired, move the upper bolts a few links further down the chains.

## Agitator Operation

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The agitators engage/disengage automatically as the drill is lowered and raised in field operations, and require no change to normal operations.




## Agitator Maintenance




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- Check bolt torques periodically.

## Appendix

### Torque Chart

Bolt Size in-tpi <sup>a</sup>	Bolt Head Identification					
	 Grade 2		 Grade 5		 Grade 8	
	N-m <sup>b</sup>	ft-lb <sup>d</sup>	N-m	ft-lb	N-m	ft-lb
1/4-20	7.4	5.6	11	8	16	12
1/4-28	8.5	6	13	10	18	14
5/16-18	15	11	24	17	33	25
5/16-24	17	13	26	19	37	27
3/8-16	27	20	42	31	59	44
3/8-24	31	22	47	35	67	49
7/16-14	43	32	67	49	95	70
7/16-20	49	36	75	55	105	78
1/2-13	66	49	105	76	145	105
1/2-20	75	55	115	85	165	120
9/16-12	95	70	150	110	210	155
9/16-18	105	79	165	120	235	170
5/8-11	130	97	205	150	285	210
5/8-18	150	110	230	170	325	240
3/4-10	235	170	360	265	510	375
3/4-16	260	190	405	295	570	420
7/8-9	225	165	585	430	820	605
7/8-14	250	185	640	475	905	670
1-8	340	250	875	645	1230	910
1-12	370	275	955	705	1350	995
1 1/8-7	480	355	1080	795	1750	1290
1 1/8-12	540	395	1210	890	1960	1440
1 1/4-7	680	500	1520	1120	2460	1820
1 1/4-12	750	555	1680	1240	2730	2010
1 3/8-6	890	655	1990	1470	3230	2380
1 3/8-12	1010	745	2270	1670	3680	2710
1 1/2-6	1180	870	2640	1950	4290	3160
1 1/2-12	1330	980	2970	2190	4820	3560

Bolt Size mm x pitch <sup>c</sup>	Bolt Head Identification					
	 Class 5.8		 Class 8.8		 Class 10.9	
	N-m	ft-lb	N-m	ft-lb	N-m	ft-lb
M 5 X 0.8	4	3	6	5	9	7
M 6 X 1	7	5	11	8	15	11
M 8 X 1.25	17	12	26	19	36	27
M 8 X 1	18	13	28	21	39	29
M10 X 1.5	33	24	52	39	72	53
M10 X 0.75	39	29	61	45	85	62
M12 X 1.75	58	42	91	67	125	93
M12 X 1.5	60	44	95	70	130	97
M12 X 1	90	66	105	77	145	105
M14 X 2	92	68	145	105	200	150
M14 X 1.5	99	73	155	115	215	160
M16 X 2	145	105	225	165	315	230
M16 X 1.5	155	115	240	180	335	245
M18 X 2.5	195	145	310	230	405	300
M18 X 1.5	220	165	350	260	485	355
M20 X 2.5	280	205	440	325	610	450
M20 X 1.5	310	230	650	480	900	665
M24 X 3	480	355	760	560	1050	780
M24 X 2	525	390	830	610	1150	845
M30 X 3.5	960	705	1510	1120	2100	1550
M30 X 2	1060	785	1680	1240	2320	1710
M36 X 3.5	1730	1270	2650	1950	3660	2700
M36 X 2	1880	1380	2960	2190	4100	3220

- a. in-tpi = nominal thread diameter in inches-threads per inch
- b. N·m = newton-meters
- c. mm x pitch = nominal thread diameter in mm x thread pitch
- d. ft-lb = foot pounds

Torque tolerance + 0%, -15% of torquing values. Unless otherwise specified use torque values listed above.

25199

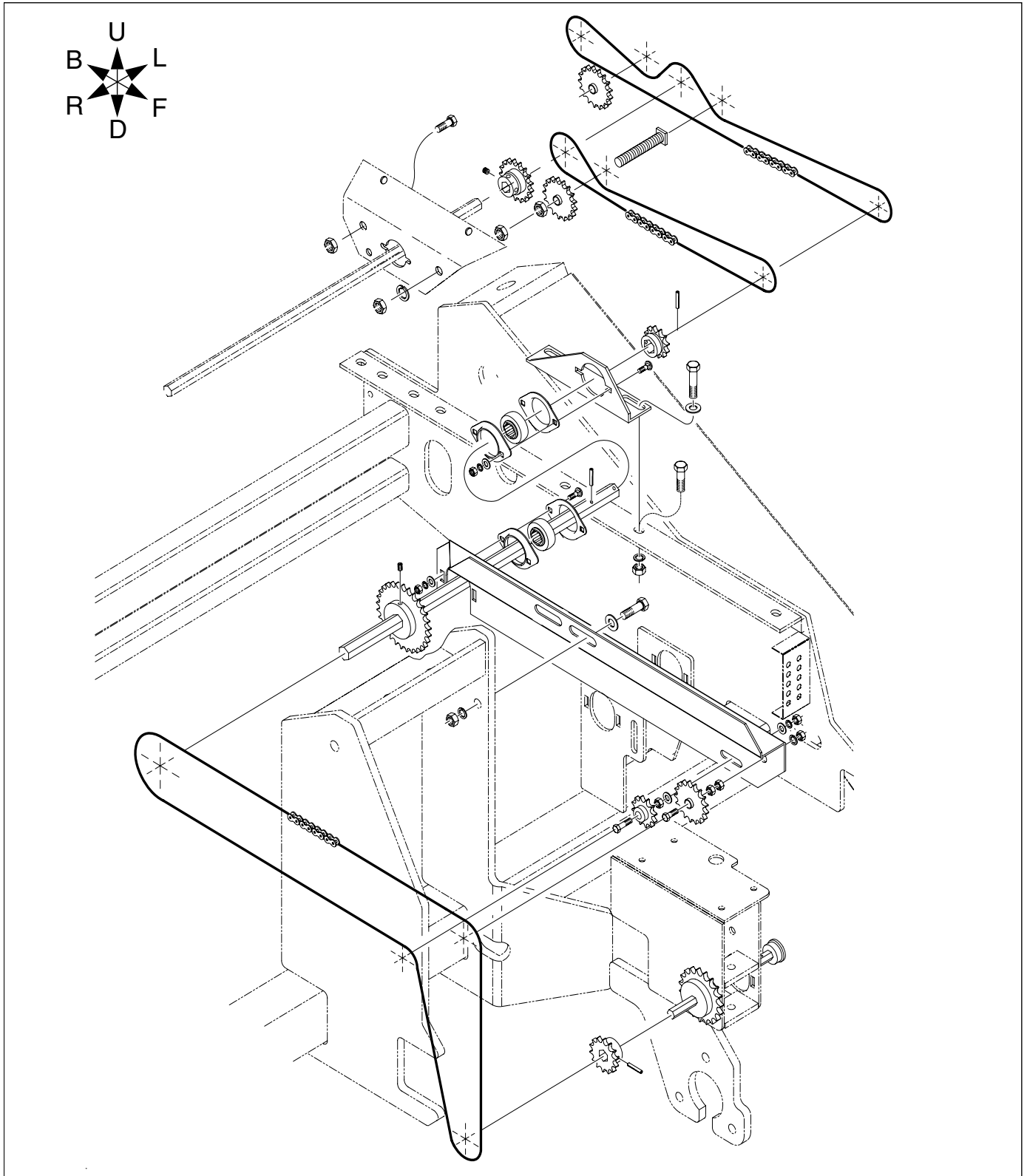


Figure 11 Transfer Drive Mount

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## Part Lists

### New Parts

#### Kits Contents

The part call-out numbers in this list match all Figures in these installation instructions. Part descriptions match those in your updated Parts Manual.

Callout	Part Number	Part Description
11	118-598M	MANUAL 12'EWNT AGITATOR
12	118-593A	12' EWNT 7 AGITATOR W/DRV
13	118-594A	12'EWNT 7.5 AGITATOR W/DRV
14	118-595A	12'EWNT 8 AGITATOR W/DRV
15	118-596A	12'EWNT 10 AGITATOR W/DRV
16	118-600A	12' EWNT 7 AGITATOR W/O DRV
17	118-601A	12' EWNT 7.5 AGITATOR W/O DRV
18	118-602A	12' EWNT 8 AGITATOR W/O DRV
19	118-603A	12' EWNT 10 AGITATOR W/O DRV
20	118-604A	12' EWNT 7 AGIT W/ DRV-FLD
21	118-605A	12' EWNT 7.5 AGIT W/ DRV-FLD
22	118-606A	12' EWNT 8 AGIT W/ DRV-FLD
23	118-607A	12' EWNT 10 AGIT W/ DRV-FLD
24	118-608A	12' EWNT 7 AGIT W/O DRV-FLD
25	118-609A	12' EWNT 7.5 AGIT W/O DRV-FLD
26	118-610A	12' EWNT 8 AGIT W/O DRV-FLD
27	118-611A	12' EWNT 10 AGIT W/O DRV-FLD
28	118-597L	12'EWNT AGITATOR HDWARE BDL
29	118-599L	12'EWNT AGIT HDWR BDL W/O DRV
30	118-612L	12' EWNT DRIVE HDW BNDL-FLD
31	118-613L	12' EWNT NON DRV HDW BNDL-FLD
32	118-439H	AGITATOR IDLER BOLT 5/8-11
33	118-488D	AGITATOR IDLER MOUNT& COVER LH
34	118-489D	AGITATOR IDLER MOUNT& COVER RH
35	118-493D	AGITATOR PADDLE 3/4 HEX
36	118-494D	LOCK COLLAR 3/4 HEX BORE
37	118-495D	AGITATOR SHAFT,3/4 HEX 12'BOX
38	118-498D	SEED FLOAT DOWN FLOAT STOP
39	118-503D	12'EWNT TRANSFER DRIVE MOUNT
40	118-592H	SPKT 40B17X3/4 HEXBR&LCK COLLR

Callout	Part Number	Part Description
41	118-598M	MANUAL 12'EWNT AGITATOR
42	118-612L	12' EWNT DRIVE HDW BNDL-FLD
43	118-613L	12' EWNT NON DRV HDW BNDL-FLD
44	120-233D	HEX SHAFT 7/8 X 26 1/2
45	123-517D	REAR DRIVE BRG MOUNT PLATE LH
46	136-060D	CHAIN RL #40 61 PITCHES
47	136-105D	CHAIN RL #40 192 PITCHES
48	136-110D	CHAIN RL #40 100 PITCHES
49	801-035C	SCREW SET 5/16-18 SKT KP X 3/8
50	802-039C	HHCS 1/2-13X3 GR5
51	802-050C	HHCS 5/8-11X1 1/4 GR5
52	802-053C	HHCS 5/8-11X1 3/4 GR5
53	802-091C	HHCS 1/2-13X1 1/2 GR5
54	802-092C	RHSNB 5/16-18X3/4 GR5
55	802-282C	RHSNB 5/16-18X1 GR5
56	802-436C	HHCS 5/8-11X3 1/2 FTHD
57	802-448C	HFSS 1/4-20X2 GR5
58	803-008C	NUT HEX 5/16-18 PLT
59	803-020C	NUT HEX 1/2-13 PLT
60	803-021C	NUT HEX 5/8-11 PLT
61	803-023C	NUT HEX JAM 5/8-11 PLT
62	803-036C	NUT HEX JAM 1/2-13 PLT
63	803-088C	NUT HEX LOCK 1/4-20 FLG
64	804-009C	WASHER LOCK SPRING 5/16 PLT
65	804-015C	WASHER LOCK SPRING 1/2 PLT
66	804-016C	WASHER FLAT 1/2 SAE PLT
67	804-019C	WASHER FLAT 5/8 USS PLT
68	804-022C	WASHER LOCK SPRING 5/8 PLT
69	805-023C	PIN ROLL 3/16X1 1/4 PLT
70	808-046C	SPKT 40A17 IDLER

Callout	Part Number	Part Description
71	808-143C	SPKT 40B12 7/8 HEX BORE W/SS
72	808-167C	SPKT 40B14 X 3/4 HEX BORE
73	808-194C	SPKT 40B22 7/8 HEX BORE & SS
74	817-025C	NO. 40 12T IDLER SPKT.
75	822-032C	FLANGETTE 52 MST
76	822-041C	FLANGETTE 47 MST
77	822-119C	BRG 7/8HEXX2.05OD SPH
78	822-128C	BRG INS 3/4HEXX1.85OD SPH

Quantities are units ("ea").

### Existing Parts

The part call-out numbers in this list match all Figures in these installation instructions. Part descriptions match those in your updated Parts Manual.

Call out	Part Number	Part Description
11	1	1/2 x 1 Long Bolt
11	2	1/2 Lock Washer
11	3	1/2 Hex Nut
11		

### Abbreviations

3PT	3 Point
ASY	Assembly
DBL	Double
EWNT	End-Wheel No-Till
FT	Foot/Feet
GR5	Grade 5
HEX	Hexagonal

HHCS	Hex Head Cap Screw
IN	Inch/Inches
LG	Long
PLT	Plated
SPRG	Spring
USS	United States (heavy duty) Standard
x	by

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