

WARRANTY REGISTRATION AND POLICY

Buhler Manufacturing products are warranted for a period of twelve (12) months from original date of purchase, by original purchaser, to be free from defects in material and workmanship under correct, normal agricultural use and proper applications.

Buhler Manufacturing's obligations under this warranty shall be limited to the repair or exchange, at Buhler Manufacturing's option, of any Buhler Manufacturing product or part which proves to be defective as provided. Buhler Manufacturing reserves the right to either inspect the product at the buyer's location or have it returned to the factory for inspection.

The above warranty does not extend to goods damaged or subject to accident, abuse or misuse after shipment from Buhler Manufacturing's factory, nor to goods altered or repaired by anyone other than an authorized Buhler Manufacturing representative.

Buhler Manufacturing makes no Express Warranties other than those, which are specifically described. Any description of goods, including any references and specifications in catalogues, circulars and other written material published, is for the sole purpose of identifying goods and shall conform to such descriptions. Any sample or model is for illustrative purposes only and does not create an Express Warranty that the goods conform to sample or model shown.

The purchaser is solely responsible for determining suitability of goods sold. This warranty is expressly in lieu of all other warranties expressed or implied. Buhler Manufacturing will in no event be liable for any incidental or consequential damages whatsoever. Nor for any sum in excess of the price received for the goods for which liability is claimed.

WARRANTY CLAIMS:

Warranty requests must be prepared on Buhler Manufacturing Warranty Claim Forms with all requested information properly completed. Warranty Claims must be submitted within a thirty (30) day period from date of failure repair.

WARRANTY LABOR:

Any labor subject to warranty **must** be authorized by Buhler Manufacturing. The labor rate for replacing defective parts, where applicable, will be credited at a rate determined by the Company, Buhler Manufacturing.

IMPORTANT FACTS:

Buckets and Bucket Tines Carry No Warranty

Bent Spears Carry No Warranty

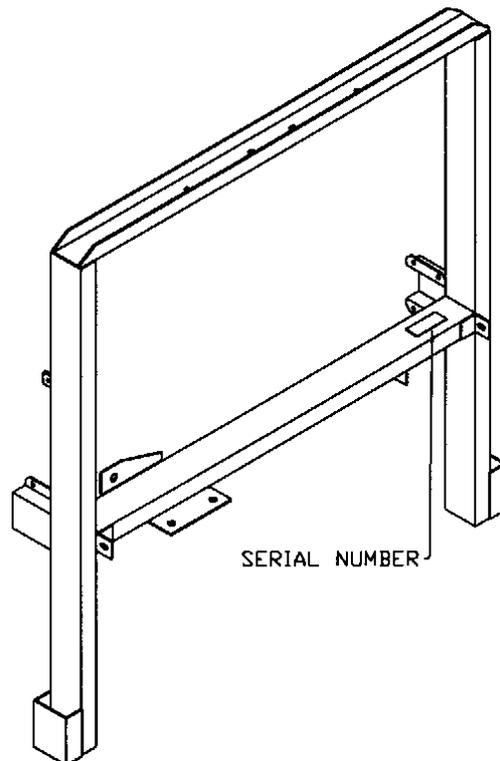
Snowblower Fan Shafts Carry No Warranty

Mower Blades Carry No Warranty

Portable Auger Parts Have Two (2) Year Warranty

SAFETY INSTRUCTIONS

1. Read and understand the operator's manual before operating.
2. Keep all safety shields and devices in place.
3. Make certain everyone is clear before operating or moving the machine.
4. Keep hands, feet and clothing away from moving parts.
5. Shut off power to adjust, service or clean.
6. Tow the cleaner only at low speeds (approx. 20 mph)
7. Use a slow moving vehicle sign and warning lights if it is necessary to move the cleaner on a roadway.
8. The bolts which clamp on the drum screen straps should be turned so the end of the bolt trails the direction of rotation as explained in the assembly instructions.
9. Disconnect power before resetting motor overload.
10. Make certain electric motors are grounded.



GC-04

MODEL #360 GRAIN CLEANER ASSEMBLY INSTRUCTIONS

⚠ ALERT: The following instructions refer to the intake end of the cleaner as the front and the output end as the rear.

1. Join the front frame (#1) and rear frame (#2) with two frame sides (#3) using four frame clamp plates (#6) with 5/16" x 3/4" cap screws, lock washers and hex nuts. Bolt the frame cross brace (#4) between the frame sides using two frame clamps (#5). The hitch (#7) is pushed through the holes in the rear frame and frame cross brace and fastened to the frame cross brace with a 3/8" x 4" cap screw and lock nut. The hitch length is adjusted by moving the position of the frame cross brace.

⚠ CAUTION: All bolts connecting the frame must be firmly tightened. Any loose bolts could result in the frame separating while towing the cleaner.

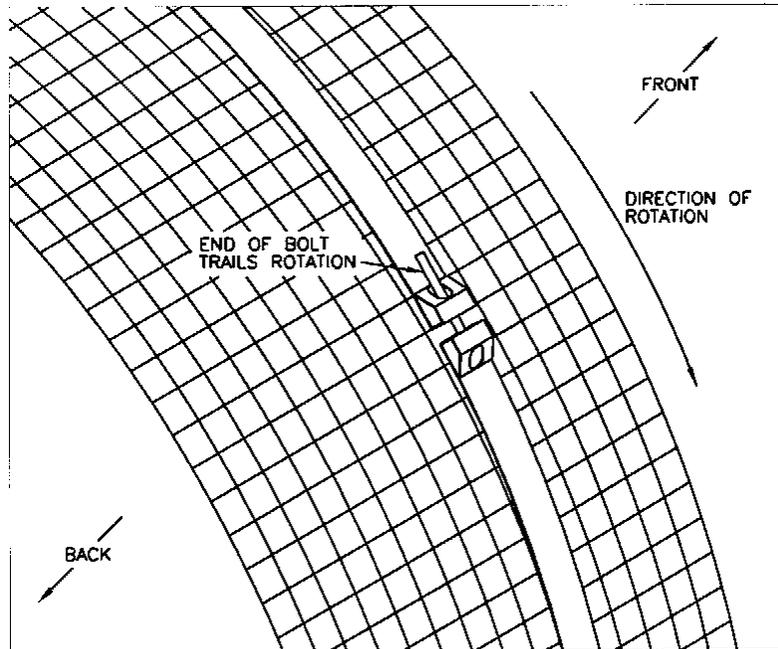
2. Slide the front legs (#11) into the sleeves at the bottom of the front frame. A 3/8" x 2" cap screw, lock washer and hex nut through each leg is used to adjust the height of the front of the cleaner. Place a wheel spacer (#12) on the stub shafts and mount the wheels (#13). The wheels are held on by a 1" I.D. flat washer and a 1/4" x 1 1/2" cotter pin. A 5/16" x 3/4" cap screw, lock washer and hex nut is bolted through one of the holes at the top of the leg to keep it from sliding out.
3. Mount two 1" pillow bearings (#16) on the reducer shaft (#18) and bolt the bearings to the bottom of the reducer mount welded to the front frame as shown in drawing. Use 1/2" x 1 3/4" cap screws, lock washers and hex nuts. Bolt the idler arm (#25) to the same reducer mount using a 5/8" x 1 3/4" cap screw and lock nut. The end of the idler arm with the small hole is turned to the outside of the frame. Mount the idler pulley (#24) to the other end of the idler arm. A 5/8" I.D. flat washer is placed between the idler pulley and the idler before tightening with a 5/8" jam nut. A 3" pulley (#19) is mounted on the inside of the reducer shaft and a 15" pulley (#26) is mounted on the outside.
4. Bolt the motor mount (#33) to the front frame with two motor mount clamps (#34) using 3/8" x 1" cap screws, lock washers and hex nuts. The tightener hole in the side of the motor mount must face the tightener bracket welded to the front frame. Connect the belt tightener rod (#35) between the motor mount and the welded bracket on the frame using two 3/8" hex nuts. Bolt the motor guard (#32) and 1 H.P. electric motor (not supplied) to the motor mount using 5/16" x 1" cap screws, lock washers, flat washers and hex nuts. Mount a 2 1/2" pulley (#29) on the electric motor and connect this pulley and the 15" pulley (#26) with a B-62 V-belt (#28). Tighten belt using belt tightener rod (#35).

MODEL #360 GRAIN CLEANER ASSEMBLY INSTRUCTIONS – cont'd.

5. Assemble the three drum rings (#'s 67, 68, & 69); cone flow control (#76) and two drum screen support rings (#71) on the drum shaft (#70). The cone flow control comes between the front and center drum rings while the drum screen support rings are placed on each side of the center drum ring. Be certain that all three drum rings are turned as shown in drawing. Support the ends of the drum shaft on stands so the rings can be turned till the outer holes in all three rings and the screen support rings are aligned. The holes for the cone screen support bars (#73) should also be aligned when the outer holes in the drum rings are in line.
6. The six cone screen support bars (#73) are bolted between the front and center drum rings to form a cone. Use 5/16" x 3/4" cap screws, lock washers and hex nuts at the center ring and 5/16" x 3/4" carriage bolts, lock washers and hex nuts at the front ring. Join the three drum rings and the two screen support rings with six drum screen support bars (#72) using 5/16" x 3/4" carriage bolts, lock washers and hex nuts. Do not tighten any nuts until all bolts are in place. Lock the drum rings and the cone flow control onto the drum shaft by inserting a 3/8" x 1" set screw into the hubs and tightening.
7. Mount 1" pillow bearings (#16) on each end of the drum shaft. Lift the drum assembly into the frame with the cone end towards the front frame (end with adjustable legs). Bolt the rear pillow bearing to the top of the rear frame using 1/2" x 1 3/4" cap screws, lock washers, flat washers and hex nuts. Bolt the front pillow bearing underneath the top cross brace of the front frame. The intake auger pivot (#36) is placed on the top side of the same cross brace and bolted on together with the bearing using 1/2" x 2" cap screws, lock washers, flat washers and hex nuts. Place the B-133 V-belt (#22) around the front end of the drum before bolting on the front bearing. The rear drum ring should be positioned with 1 1/4" gap to the rear frame to allow clearance at the front end.
8. Mount the drum belt on the 3" pulley (#19) at the inside of the reducer shaft (#18). Tighten the belt with the idler pulley (#24) by hooking one end of the belt tightener spring (#23) in the end of the idler arm (#25) and the other end in the bracket welded to the inside edge of the front frame.
 **CAUTION:** Spring may be unhooked while installing drum screen to allow easier rotation of drum.
9. Mount the three cone screen sections (#75). Two of the cone segments will have to be notched to fit around the trash outlets on the center ring (see drawing below). After fitting the cone segments, pin them to the cone with 1/4" x 3/4" self-tapping screws and flat washers. Strap the ends of the cone screens to the front and center rings using the two cone straps (#'s 77, & 78). Tighten straps with 1/4" x 2 1/2" round head bolts and 1/4" square nuts. After strapping, the screen is tightened by inserting the remaining self-tapping screws.

MODEL #360 GRAIN CLEANER ASSEMBLY INSTRUCTIONS – cont'd.

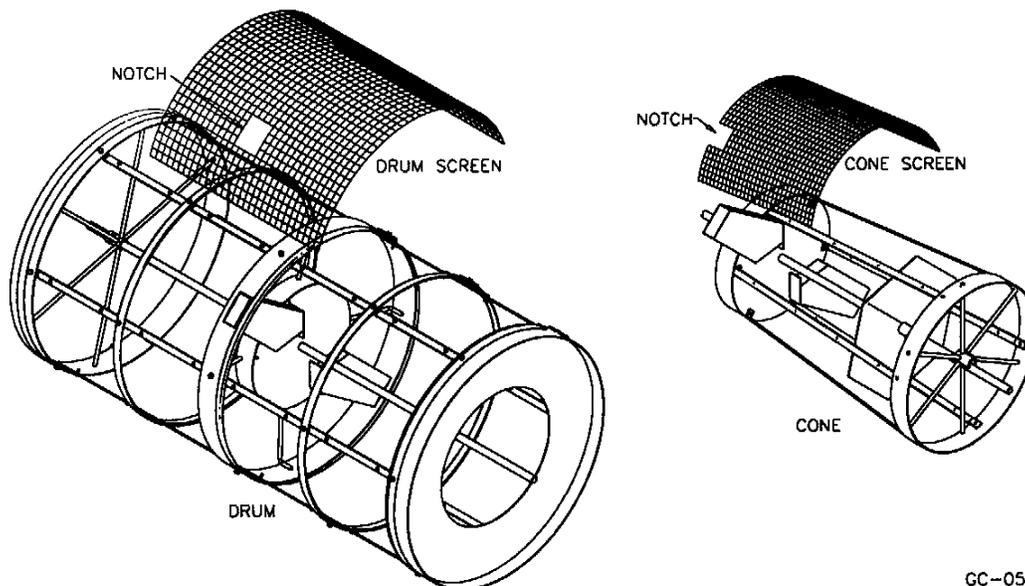
⚠ CAUTION: All the strap bolts holding the drum screens should be turned so the end of the bolt trails the direction of rotation as shown in the drawing. This is done so the end of the bolt will not accidentally hook onto your hand or clothing while the drum is rotation.



GC-10

MODEL #360 GRAIN CLEANER ASSEMBLY INSTRUCTIONS – cont'd.

Both drum screens must also be notched to fit around the trash outlets as shown in the drawing below. A convenient way to hold the screen in position during assembly is by hooking several small springs across the lap joint. Two springs to hold the screen in place (#87) are included in the bag with each cleaner. After notching, pin the screens to the outer drum with $\frac{1}{4}$ " x $\frac{3}{4}$ " self-tapping screws and flat washers. Before fastening screen, be sure that the screen is flat against the drum rings and the screen supports all the way around the drum. Straps (#77) are fastened around the screens at the front and back rings, on each side of the trash outlets on the center ring and around each of the drum screen support rings (#71). Tighten straps and insert the remaining self-tapping screws.



10. Insert the discharge pan (#8) into the rear frame between the frame sides and the top and center cross braces. Bolt to frame sides using $\frac{1}{4}$ " x 2" cap screws, lock washers, flat washers and hex nuts. Fasten top edge of discharge pan to the top cross brace on the rear frame using $\frac{1}{4}$ " x $\frac{3}{4}$ " self-tapping screws. Fit the rear drum shield (#9) around the rear of the drum and fasten to the top of the rear frame using $\frac{1}{4}$ " x $\frac{3}{4}$ " self-tapping screws. The rear drum shield is also bolted to the discharge pan using $\frac{1}{4}$ " x $\frac{3}{4}$ " cap screws, lock washers and hex nuts. Mount the pulley guard (#17) to the front frame by bolting it to the angle irons welded to the ends of the center cross brace using $\frac{5}{16}$ " x $\frac{3}{4}$ " cap screws, lock washers, flat washers and hex nuts. Fasten the intake pan (#10) under the top cross brace of the front frame using $\frac{3}{8}$ " x $\frac{3}{4}$ " cap screws, lock washers and hex nuts.

11. Intake Auger (Optional)

Insert the intake auger swivel (#37) into the intake auger pivot (#36), which is already bolted to the top of the front frame. Bolt the intake auger connector plate (#40) to the intake auger using $\frac{3}{8}$ " x $\frac{3}{4}$ " cap screws, lock washers and hex nuts. Join the intake auger connector plate and the intake auger swivel with a $\frac{1}{2}$ " x $7\frac{1}{2}$ " pin (#38) and cotter pin.

OPERATION OF CLEANER

The Cleaner will remove both fine seeds and chaff as well as larger trash such as corn cobs or stalks.

A 6" utility auger is recommended as an intake auger. A 1 hp electric motor should be used to run both the cleaner and the utility auger. These must be supplied by the purchaser of the cleaner.

Adjust the height of the legs on the front frame to the position which will give you maximum capacity.

A variety of screens are available to fit your needs.

Belt tension should be periodically checked and any trash should be removed from the pulley grooves.

The cone flow control must be set to minimize grain loss through the trash outlets.

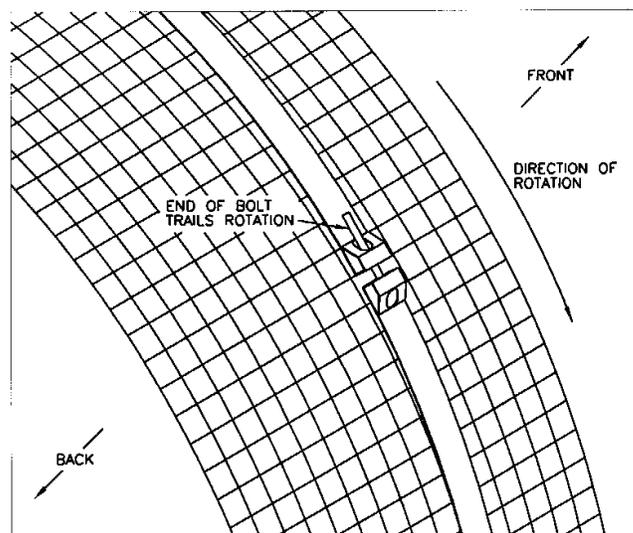
Capacity will vary with type of grain and moisture content. A flow control on the intake auger will allow you to match input to cleaner capacity.

The cleaner should be run until empty before stopping. Do not leave grain in cleaner or start the cleaner with a load of grain in it.

Tires provided with cleaner are for low speed towing only.

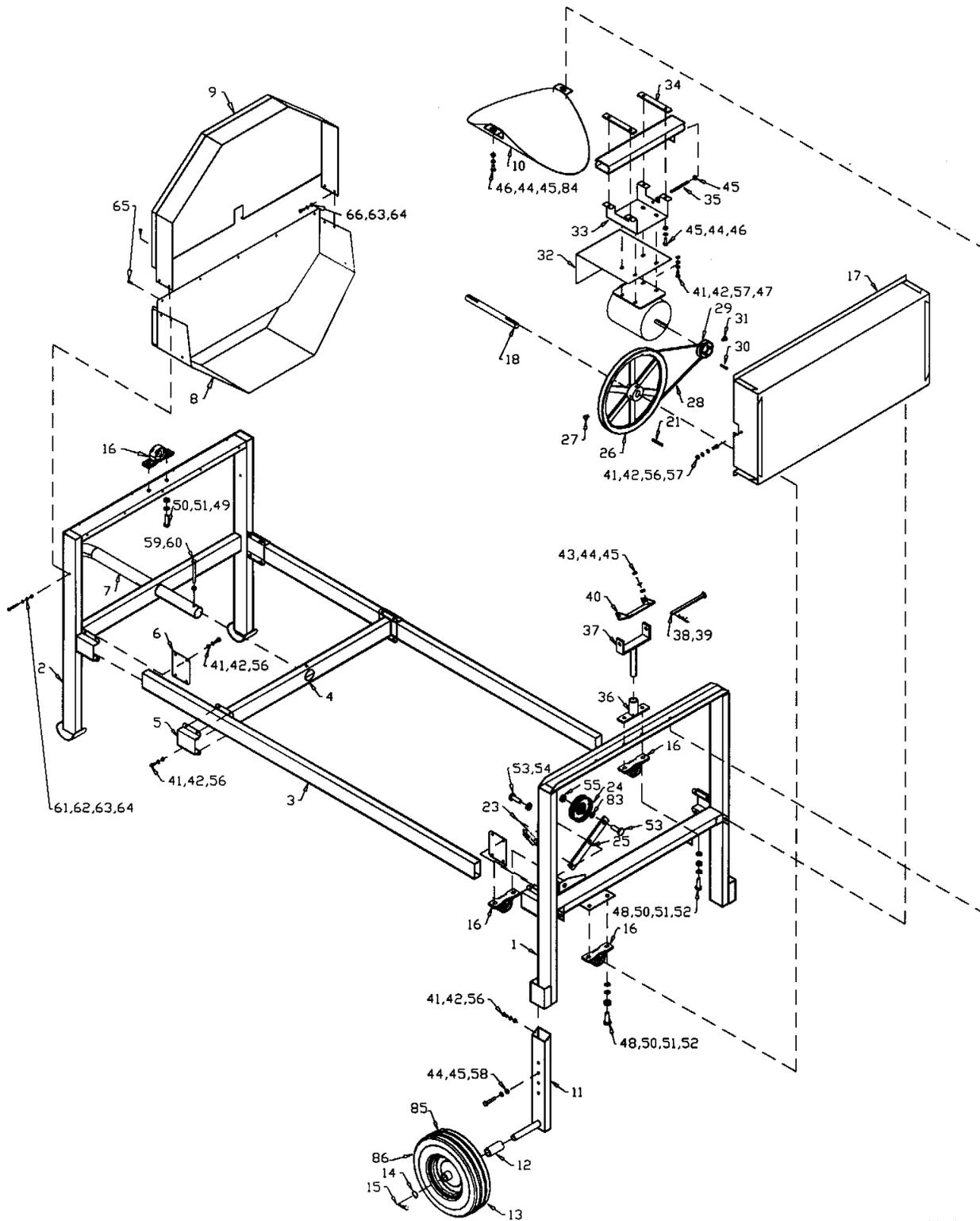
Keep all shields in place while cleaner is running. Stop cleaner to make any adjustments.

The rotation direction when viewed from the motor drive end should be as shown in the drawing below.



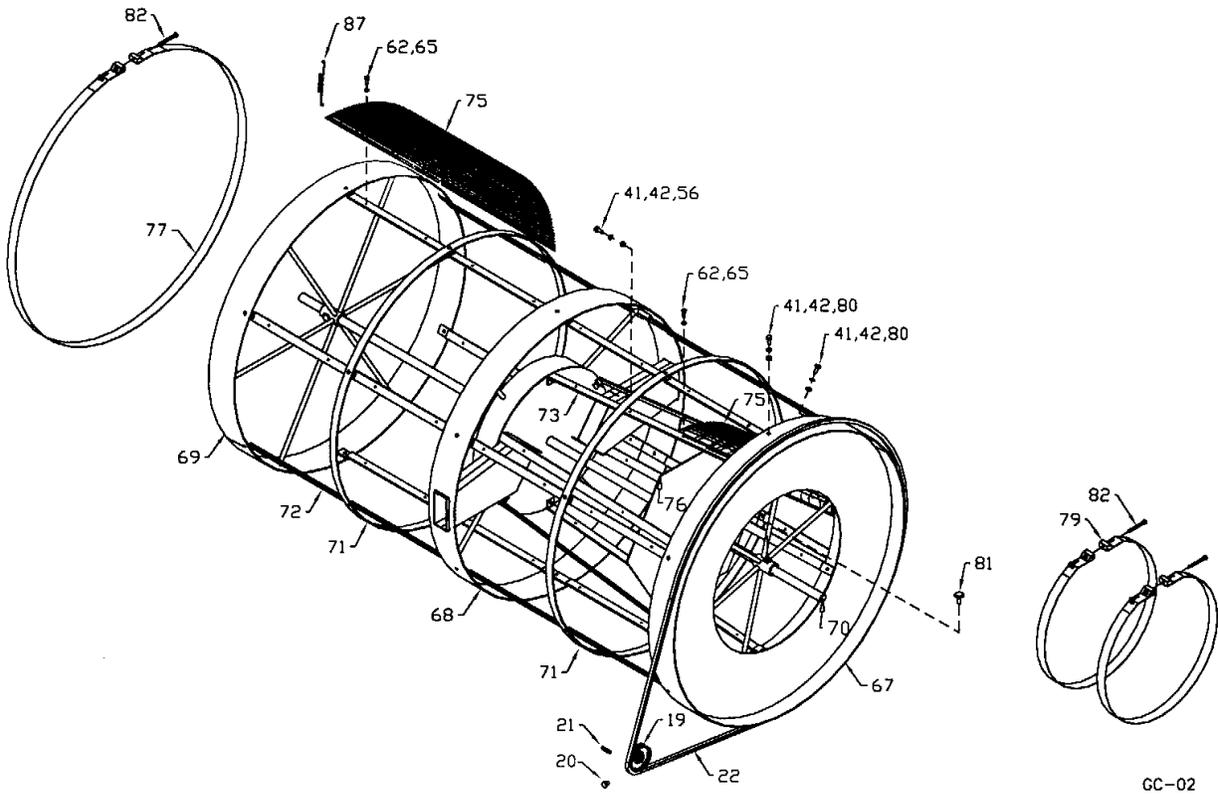
GC-10

#360 GRAIN CLEANER



GC-01

#360 GRAIN CLEANER



WHEN ORDERING PARTS

Always give your dealer the Model and Serial Number of your machine to assist him in ordering and obtaining the correct parts. Use the exploded view and tabular listing of the area of interest to exactly identify the required part.

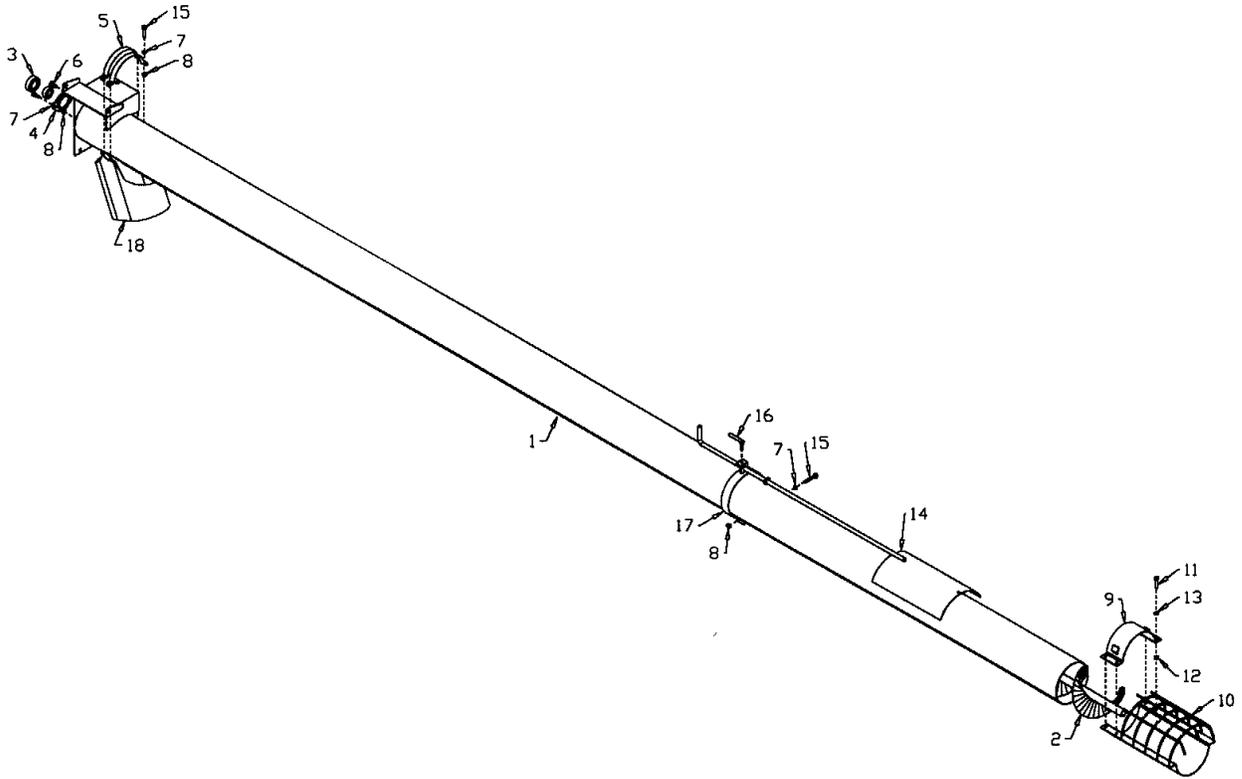
#360 GRAIN CLEANER PARTS LIST

Item #	Part #	Description
1	973601	Front Frame
2	973602	Rear Frame
3	973603	Frame Side
4	973604	Frame Cross Brace
5	973605	Frame Clamp
6	973606	Frame Clamp Plate
7	973607	Hitch
8	F4305	Discharge Pan
9	F4307	Drum Shield
10	F4304	Intake Pan
11	973611	Front Leg
12	973657	Wheel Spacer
13	973613	Wheel w/ Tire
14	84522	1" I.D. Flat Washer (S.A.E.)
15	9812434	1/4" x 1 1/2" Cotter Pin
16	961792	1" Pillow Bearing
17	F4306	Pulley Guard
18	973615	Reducer Shaft
19	973616	Pulley, B Section 1" x 3"
20	988999	3/8" x 3/8" Socket Set Screw
21	900197	1/4" x 2 1/4" Square Key
22	973617	B-133 V-Belt
23	973618	Belt Tightener Spring
24	973645	Idler Pulley, 5/8" x 4 5/8"
25	973619	Idler Arm
26	973620	Pulley, B Section 1" x 15"
27	985639	3/8" x 1/2" Socket Set Screw
28	973621	B-62 V-Belt
29	973646	Pulley, B Section, 5/8" x 2 1/2"
30	900198	3/16" x 1 1/2" Square Key
31	984105	5/16" x 3/8" Socket Set Screw
32	973622	Motor Guard
33	973623	Motor Mount
34	973624	Motor Mount Clamp
35	973625	Belt Tightener Rod

36	973626	Intake Auger Pivot
37	973627	Intake Auger Swivel
38	963024	Intake Auger Swivel Pin
39	9812430	1/8" x 1" Cotter Pin
40	973629	Intake Auger Connector Plate
41	81569	5/16" Lock Washer
42	81568	5/16" Hex Nut
43	84072	3/8" X 3/4" Hex Bolt
44	81593	3/8" Lock Washer
45	81592	3/8" Hex Nut
46	86170	3/8" X 1" Hex Bolt
47	812026	5/16" x 1" Hex Bolt
48	81638	1/2" Flat Washer (B.S.)
49	811791	1/2" x 2" Hex Bolt
50	81637	1/2" Lock Washer
51	81636	1/2" Hex Nut
52	87553	1/2" x 1 3/4" Hex Bolt
53	84270	5/8" x 1 3/4" Hex Bolt
54	812482	5/8" Lock Nut
55	84126	5/8" Jam Nut
56	81549	5/16" x 3/4" Hex Bolt
57	81570	5/16" Flat Washer (B.S.)
58	811795	3/8" x 2" Hex Bolt
59	81587	3/8" x 4" Hex Bolt
60	812363	3/8" Lock Nut
61	81531	1/4" x 2" Hex Bolt
62	81546	1/4" Flat Washer (B.S.)
63	81545	1/4" Lock Washer
64	81544	1/4" Hex Nut
65	9812392	1/4" x 3/4" Self Tapping Screw
66	81525	1/4" x 3/4" Hex Bolt
67	973632	Front Drum Ring
68	973633	Center Drum Ring
69	973634	Rear Drum Ring
70	973635	Drum Shaft
71	973636	Drum Screen Support Ring
72	973637	Drum Screen Support Bar
73	973638	Cone Screen Support Bar
74	973651	4 x 4 Drum Screen
	973652	5 x 5 Drum Screen
	973653	6 x 6 Drum Screen
	973654	8 x 8 Drum Screen
	900211	10 x 10 Drum Screen

75	973650	5/8" x 5/8" Cone Screen
	973647	2 x 2 Cone Screen
	973648	3 x 3 Cone Screen
	973649	4 x 4 Cone Screen
	903519	5 x 5 Cone Screen
76	973641	Cone Flow Control
77	973642	Drum Screen Strap
78	973643	Front Cone Screen Strap
79	973644	Rear Cone Screen Strap
80	81185	5/16" x 3/4" Carriage Bolt
81	81213	3/8" x 1" Sq. Hd. Set Screw
82	9812398	1/4" x 2 1/2" Rd. Hd. Bolt W/ Nut
83	81678	5/8" Flat Washer
84	84000	3/8" Flat Washer
85	973655	Wheel (8" x 2 1/2") W/ Spacer
86	973656	Tire W/ Tube (4.80/4.00 - 8)
87	973289	Screen Spring (.437" O.D. x 6.155" Lg)

6" UTILITY AUGER OPTION



GC-03

6" UTILITY AUGER - OPTION (#360 GC)

Item #	Part #	Description
1	963617	6" x 10' Tube W/ 6" Motor Mount
	963618	6" x 15' Tube W/ 6" Motor Mount
	63619	6" x 20' Tube W/ 6" Motor Mount
2	963604	6" x 11' Flighting Weldment
	963605	6" x 16' Flighting Weldment
	963606	6" x 21' Flighting Weldment
3	961627	1" Bearing
4	963009	1" Flange
5	902968	3/4" x 10 1/2" Spout Clamps
6	81549	5/16" x 3/4" Hex Bolt (pl)
7	81569	5/16" Lock Washer (pl)
8	81568	5/16" Hex Nut (pl)
9	963622	3" x 11 1/8" Clamp
10	963621	11 1/8" x 23" Guard Weldment
11	86170	3/8" x 1" Hex Bolt (pl)
12	81592	3/8" Hex Nut (pl)
13	81593	3/8" Lock Washer (pl)
14	963624	1/2" x 40" Feed Control Rod
15	812819	5/16" x 1 1/2" Hex Bolt (pl)
16	963145	Lock Screw
17	963623	6" I.D. Clamp W/ Lock
18	902967	6" Spout Assembly

#360 AND #480 GRAIN CLEANER SCREENS AVAILABLE**CONE SCREENS****OUTSIDE DRUM SCREENS**CORN SCREENS

2 x 2 x 19 ga. – small

4 x 4 x 23 ga. - standard

5/8 x 5/8 x 17 ga. - standard

WHEAT SCREENS

4 x 4 x 23 ga. - standard

8 x 8 x 27 ga. - standard

3 x 3 x 21 ga. - large

6 x 6 x 25 ga. - large

SUNFLOWER SCREENS

2 x 2 x 19 ga. - standard

8 x 8 x 27 ga. - small

5/8 x 5/8 x 17 ga. - large

6 x 6 x 25 ga. - standard

5 x 5 x 24 ga. - large

SOYBEAN SCREENS

3 x 3 x 21 ga. - small

6 x 6 x 25 ga. - small

2 x 2 x 19 ga. - standard

5 x 5 x 24 ga. - standard

MILO SCREENS

4 x 4 x 23 ga. - standard

8 x 8 x 27 ga. - standard

3 x 3 x 21 ga. - large

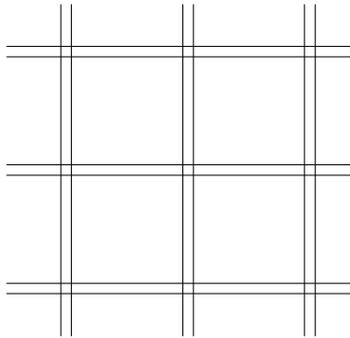
6 x 6 x 25 ga. - large

OPTIONAL DRUM SCREEN

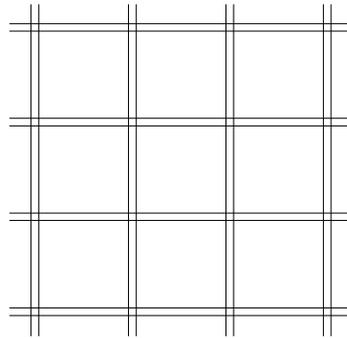
10 x 10 x 28 ga.

GRAIN CLEANER SCREENS

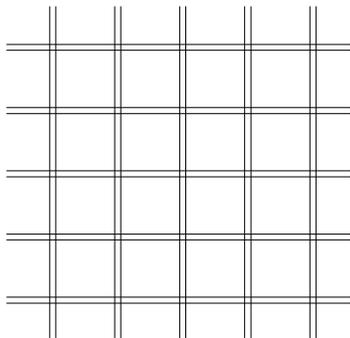
- illustrated in actual sizes



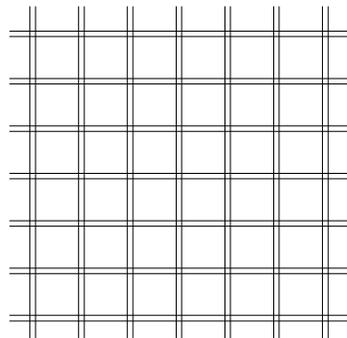
5/8 X 5/8 X 17 GA.



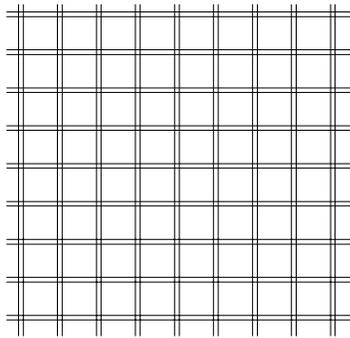
2 X 2 X 19 GA.



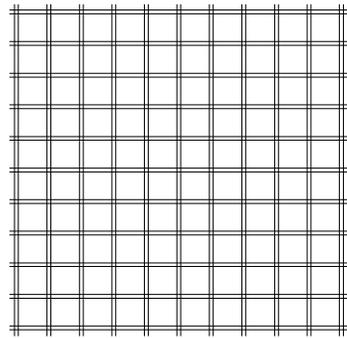
3 X 3 X 21 GA.



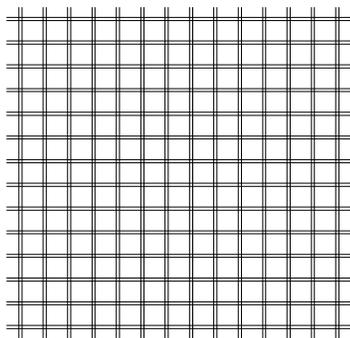
4 X 4 X 23 GA.



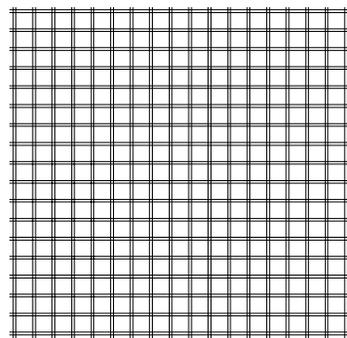
5 X 5 X 24 GA.



6 X 6 X 25 GA.



8 X 8 X 27 GA.



10 X 10 X 29 GA.

#360 GRAIN CLEANER - BUNDLE NUMBERS - Y360

QUANTITY REQUIRED	BUNDLE NUMBER	DESCRIPTION
1	F4320	#360 Crate

NOTE: Screens and motor (1 hp 1725 RPM) are not included with the grain cleaner.

SCREENS AVAILABLE

(One Cone & One Drum Screen Required per Cleaner)

F4309	Cone Screen, 2 x 2 x 19 ga.
F4310	Cone Screen, 5/8 x 5/8 x 17 ga.
F4311	Cone Screen, 4 x 4 x 23 ga.
F4312	Cone Screen, 3 x 3 x 21 ga.
F4313	Drum Screen, 4 x 4 x 23 ga.
F4314	Drum Screen, 8 x 8 x 27 ga.
F4315	Drum Screen, 6 x 6 x 25 ga.
F4316	Drum Screen, 5 x 5 x 24 ga.
F4317	Drum Screen, 10 x 10 x 28 ga.

OPTIONS AVAILABLE:

F1200	6" x 11' Utility Auger w/o Ctn. of Parts
F1210	6" x 16' Utility Auger w/o Ctn. of Parts
F1220	6" x 21' Utility Auger w/o Ctn. Of Parts
F1202	6" Bolt-on Spout c/w Clamps
F1203	6" Flow Control
F1225	Ctn. Of Parts, 6" Utility Auger