OWNER'S MANUAL

HI-CAP 40 GRAIN CLEANER

PNEG-1146
Date: 9-21-06

PNEG-1146

CAUTION

SAFETY INFORMATION PLEASE READ

WATCH FOR THIS SYMBOL!
IT POINTS OUT IMPORTANT SAFETY PRECAUTIONS.
IT MEANS ATTENTION -- "BECOME ALERT! YOUR SAFETY IS INVOLVED!"

It is recommended that you review the entire contents of this manual, paying particular attention to items preceded by this symbol.

FAILURE TO HEED THESE INSTRUCTIONS
CAN RESULT IN PERSONAL INJURY!

Operator Qualifications

Operation of this farmstead equipment shall be limited to competent and experienced persons. In addition, anyone who will operate or work around power equipment must use good common sense. In order to be qualified, he must also know and meet all other requirements, such as:

1. Some regulations specify that no one under the age of 16 may operate power machinery. This includes farmstead equipment. It is your responsibility to know what these regulations are in your own area or situation.

2. Current OSHA regulations state in part: "At the time of initial assignment and at least annually thereafter, the employer shall instruct every employee in the safe operation and servicing of all equipment with which the employee is, or will be involved."*

3. Unqualified persons are to stay out of the work area. The "Work Area" is defined as any area within the grain drying and storage complex where this equipment is installed.

4. A person who has not read and understood all operating and safety instructions is not qualified to operate the machine.

***Federal Occupational Safety & Health Standards for Agriculture Subpart D, Section 1928.57 (a) (6).**

CAUTION

BE A SAFE OPERATOR

1. Read and understand the Owner's Manual.
2. Disconnect all electrical power before servicing or opening control box, adjusting or lubricating the equipment.
3. All electrical hook-ups should be in accordance to the National Electrical Code.
4. Ground all electrical equipment as well as bin itself.
5. Only knowledgeable and trained personnel should operate this equipment.
6. **NEVER WORK WITH BELTS OR AUGERS WITH POWER "ON"...** automatic controls may start without warning! Stay clear of motors, belts and augers.

FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE.

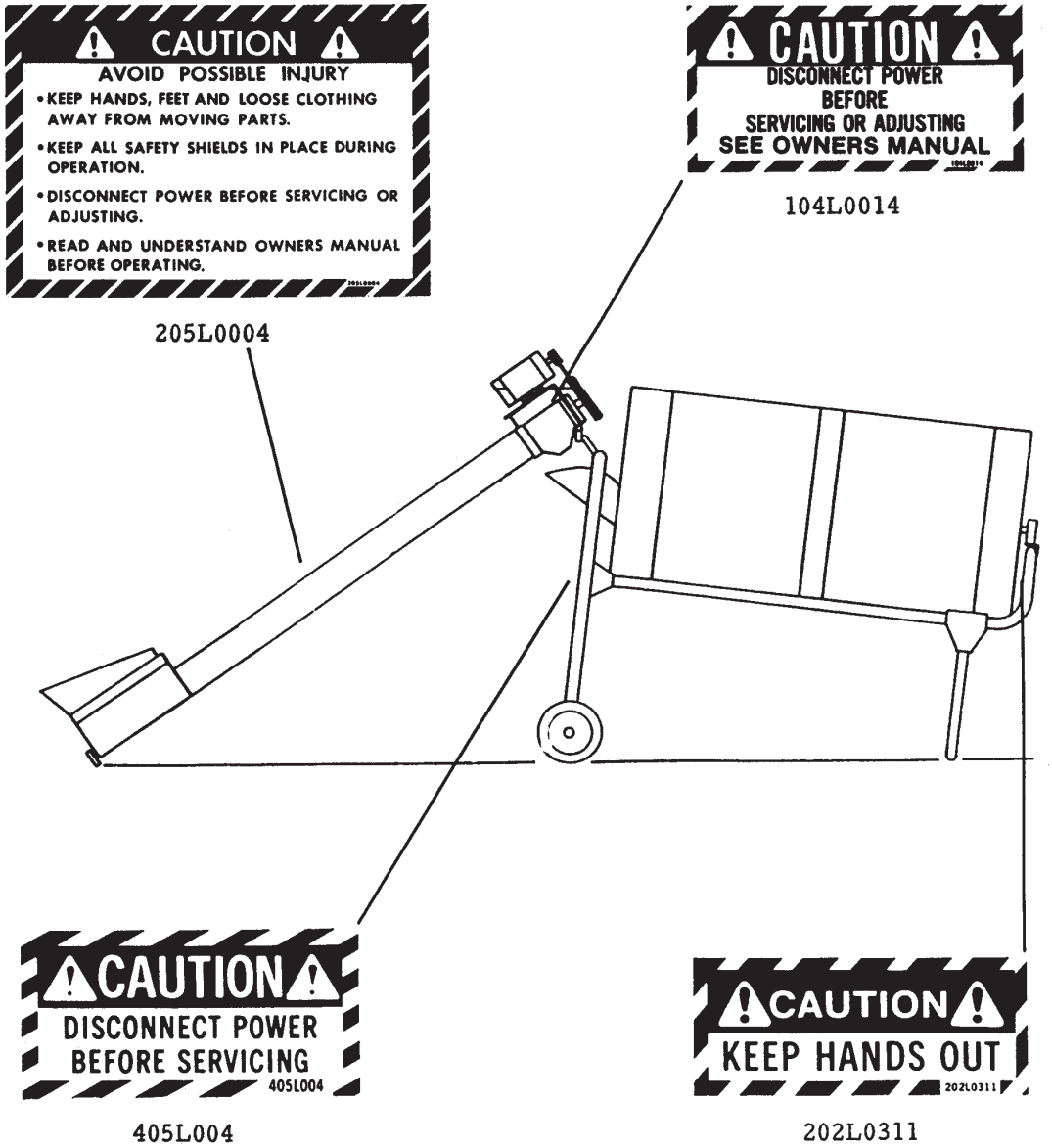
The Decals Show on This Page MUST Be Displayed As Shown

Replacements are available upon request.

Write to: DMC
1004 E. Illinois St.
Assumption, IL 62510
Phone: 217-226-5100

NOTE

- The decals on this page are NOT actual size.
- Keep all decals wiped clean at all times.
- All decals must be replaced if they are destroyed, missing, painted over, or can no longer be read.



INTRODUCTION

Your Hi-Cap Grain Cleaner is a high quality machine built to give years of reliable service. With the wide range of screen sizes available, it will take care of all your screening needs. With its dual screening action it not only removes the “fines”, chaff, etc., but also large trash such as cob particles, stalks and straw. Power requirements are low, and the motors can be connected to operate on either 115 or 230 Volts. The feed-in auger will operate in full half-circle for easy unloading of grain.

SERVICE

Lubricate all grease fittings every 5,000 bushels, or at least once every year. At the same time, check belt tensions and clean any accumulated trash out of the pulley grooves.

OPERATION

CAUTION
For Your Protection
KEEP ALL SAFETY SHIELDS IN PLACE

As with all moving machinery, DO NOT stand close to the Hi-Cap Grain Cleaner while it is operating, and always stop it to make adjustments.

The cleaning drum should turn 27 revolutions per minute, and rotate clockwise when viewed from the feed-in end. The cleaner should be run until empty before stopping. It is not advisable to leave grain in the cleaner or start the cleaner with a load of grain in it.

The ADJUSTABLE BAFFLE in the internal screen serves two purposes: first, to force the grain through the coarse screen close to the feed-in end to insure as much fine screening as possible, and secondly, to prevent grain from working to the far end and out through the large particle chute. It will be found that the baffle can be closer to the feed-in auger for dry grain than for wet. Observation of operation will reveal the need for adjustment to give most efficient cleaning. If the grain tends to build up in the internal screen, set the baffle plate farther toward the large particle chute end. Otherwise, keep it as close to the feed-in end as possible.

OPTIONAL EQUIPMENT

8” x 8’ Auger
4” x 15’ Trash Auger
Steel Hopper for 4” Trash Auger
Trash Pan
230 Volt, single-phase electrical power

All units shipped into Canada are wired 230 Volts only.

Assembly Instructions

Step1 The component parts necessary for the make-up of the completed scanner are shown in Photo 1.

Step 2 Use eight 3/8" x 1" hex head bolts, bolt the side rails to the front and rear frame ends. Secure with 3/8" lock washers and nuts, as shown in Photos 2, 3 and 4. Before tightening bolts, square the side rails with front frame end.

NOTE If trash pan is to be installed, attach the two side panel frame brackets when attaching side rails. See Photo 5 and 6.

Step 3 Put wheels to the axles as shown in Photo 7. Secure with ¾" SAE washers and 3/16" x 1" cotter keys. Place wheel on axle with the grease zerk on the outer side.

Step 4 Mount switch box to front frame end. To attach, open switch box cover and bolt to switch mounting plate, using three ¼" x ¾" pan head bolts, lock washers and nuts. See Photo 8.

Step 5 Using two 3/8" x 1-$^{1}/_{2}$" bolts; bolt dual bearing on the front frame-bearing mount. See Photos 9 and 10. Fasten each bolt with 5/16" flat washer, 3/8" lock washer and nut. BE SURE the dual bearing is positioned as shown in Photo 10 with indentation up.

Step 6 Put the 3/8" pivot bolts into the drum belt tightener as shown in Photo 11. Next, put the pivot bolts through the lower half of the double bearing and the bearing plate; fasten with 5/16" flat washer, 3/8" lock washer and nut. Slide dual bearing to the top of the slotted holes and TIGHTEN TEMPORARILY. See Photos 11, 12 and 13.

Step 7 Put the tension spring bracket on the 3/8" x 5-$^{1}/_{2}$" bolt, with the 3/8" nut, and turn into bearing plate as shown in Photo 14.

Step 8 Place the 7/8" x 7-3/8" shaft, (keyway both ends) into double bearing with an equal amount of shaft protruding from each end of dual bearing. See Photo 15. Next, put a locking collar on each end of shaft and lock. Tighten setscrews. Last, place ½" moon keys into shaft. See Photos 16 and 17. Lock locking collar in direction of rotation.

Step 9 Place the 7/8" x 2-$^{1}/_{2}$" two-groove "A" section pulley on the 7/8" shaft as shown in Photo 18. Position pulley so that it is flush with the outside end of the shaft. Tighten setscrews firmly.

Step 10 Slide the 14" pulley onto the 7/8" shaft, hub first. Position it tightly against bearing locking collar. Tighten setscrews firmly. See Photo 19.

Assembly Instructions (continued)

Step 11 Bolt the electric motor on motor mount on front frame, using four 5/16" x 1" bolts, eight ¼" flat washers and four 5/16" lock washers and nuts. Slide motor to uppermost position in the slotted holes. See Photos 20 and 21.

Step 12 Place straight key into motor shaft slot. Next, place 5/8" x 2-1/4" pulley on the motor shaft. Align with 14" pulley and tighten setscrews. See Photo 22. At this time, put a 3/8" Romex connector into the motor junction box. Take loose wire from outlet box and wire motor as described on wiring diagram on inside cover plate of electric motor. For 115 Volts, follow low voltage diagram; for 230 Volt, follow high voltage diagram. Put motor belt (A-55) on the motor pulley and 14" pulley. Adjust belt tension.

Step 13 Bolt drum bearing mount extension bracket and discharge shield bracket onto the rear frame end, using two 3/8" x 1-1/4" bolts, lock washers and nuts. BE SURE frame end is bolted between bearing mount and shield bracket.

FOR OLD STYLE THREE-PIECE TRASH PAN, SEE SUPPLEMENT PAGE.

FOR CLEANERS WITHOUT TRASH PAN,
ELIMINATE STEPS 14-19, GO DIRECTLY TO STEP 20.

Step 14 Bolt one-half of the collector pan to the rear end panel, using three ¼" x ½" pan head machine screws, and hex flange lock nuts. See Photo 25. Continue by bolting the other half of the collector pan to the rear end panel, finish by bolting the two collector pan halves together at the bottom, using twelve ¼" x ½" pan head screws, and hex flange lock nuts. See Photo 26.

Step 15 Position four-inch collector pan discharge auger in collector pan with flighting void directly over the collector pan hole. Bolt front collector pan panel into place with six ¼" x ½" pan head screws and hex flange lock nuts. See Photo 27.

Step 16 Install front end rear collector pan wooden bearings with six 5/16" x ¾" carriage bolts, lock washers and hex nuts. See Photo 28.

Step 17 Pull key-wayed end of collector pan auger forward. Place 1" machine bushing to the auger shaft and hold in position by driving a 3/16" x 1-1/2" spring pin through the shaft. Install the 3/16" x 1" woodruff key onto the auger shaft and then position the 8" V-pulley with the hub out approximately 3/16" from the end of the shaft. See Photos 29 and 30.

Step 18 Bolt the flanged idler pulley to the outside of the front panel using ½" x 3" hex bolt, ½" x ¾" spacer bushing, ½" flat washers. See Photo 31.

Assembly Instructions (continued)

Step 19 Place the pan on the cleaner frame and attach to the side rails, using eight ¼" x ¾" hex bolts, flat washers and hex flange lock nuts. See Photos 32 and 33.

Step 20 Bolt the front bearing mount extension bracket and wood bearing together using two 3/8" x 1" hex bolts, 5/16" flat washers, lock washers and nuts. Next slide the wood bearing and bracket onto the drum shaft then place a 7/8" x 14 gauge machinery bushing to he shaft and secure with 3/16" x 1-1/4" steel pin. Continue by lacing the wood bearing to the rear drum shaft, secure with a 7/8" shaft collar.

Step 21 Place drum drive belts over the drum shaft inside cone screen as shown in Photo 34.

Step 22 Lay assembled cleaner frame on side, with motor up. Roll drum into the assembled frame with belt drive ring on the same end as the electric motor. Using two 3/8" x 1-1/4" bolts, lock washers and nuts, bolt the front bearing extension bracket to the cleaner main frame as shown in Photos 35 and 36.

Step 23 Using two 3/8" x 1" hex bolts, 5/16" flat washers, lock washers and nuts, bolt the rear wood drum bearing to the bearing extension plate. Finish by pulling the screener drum toward the rear until the front bearing spring pin (feed in end) is against front bearing. Complete by locking shaft collar against rear wood bearing. See Photo 37, or wood bearing revisions on Page ????.

BE SURE DRUM DRIVE BELTS ARE POSITIONED AS OUTLINED IN STEP 20.

SET GRAIN CLEANER UP ON ITS WHEELS. BE SURE ALL BOLTS ARE TIGHT.

Step 24 Install A-90 belts over wooden idler, around 2-1/2" double groove pulley and onto belt drive ring of drum. Finish by hooking belt tightener spring in position. See Photo 38.

NOTE If trash pan equipped, install the A-112 belt to the 8" trash pan pulley, then to the outer edge of drum drive ring. Adjust belt tension with flanged idler pulley. Attach trash pan belt shield bracket using two ¼" x ¾" hex head bolts, lock washers and nuts. Finish by bolting belt shield to bracket, using two ¼" x ¾" carriage bolts, flat washers, lock washers and nuts. See Photos 39, 40 and 41.

Step 25 Bolt the discharge shield to the discharge shield bracket, using four ¼" x ¾" round head machine screws, lock washers and nuts. See Photo 42.

Step 26 Bolt intake pan between small brackets on top of front frame, using two 3/8" x 1" bolts, lock washers and nuts. See Photos 43 and 44.

Assembly Instructions (continued)

Step 27 Install the belt shield by putting a ½" nut on each shield mounting bolt, then place a ½" flat washer to each bolt and continue by putting the shield into position. Secure with another ½" flat washer, followed by a ½" nut. Adjust the shield so that it will properly protect both pulleys. See Photo 43.

Step 28 The cone screens are usually installed at the factory. Should replacement or change be necessary, remove the straps and self-tapping screws. A variety of cone screens are available for the individual needs. See Page ???.

Outside screens are installed by wrapping the screen around the outside of the drum. BE SURE outside screen is lapped as shown in Photo 46. If incorrectly installed, grain will get behind the screens, causing them to work their way off the drum. Place head of machine screws in direction of drum rotation.

For easy placement of outside drum screens, two door springs can be attached to either a small piece of steel or wood with hooks to hook into the screen. Then, by using a stick or broom handle, tap the screen lightly. The door springs will take all the excess slack out of the outside screen so the drum straps can be easily put on and secured. Straps should be secured with ¼" and 2-$^{1}/_{2}$" machine screws and nuts. See Photos 47 and 48.

NOTE Screen lap and outside drum straps should NOT be spliced on the same tumbling bar.

Outside drum straps that are placed directly over drum rings should be tightened securely. Common sense should be used when tightening straps that only come in contact with the outside drum tumbling bars. Deforming of the bars could result if these straps are over-tightened. BE SURE straps are positioned as shown in Photos 47 and 48. REMEMBER, screen lap and outside drum straps should NOT be on the same tumbling bar.

Step 29 By loosening the setscrews and turning the turnbuckle, you can adjust the slant of your drum for proper operation. See Photo 49. The grain will pass through the screener faster with a steep slant. The cleaning action will be more thorough with less slant.

IF TRASH PAN EQUIPPED:

Step 30 The drum side panel will mount with the channel edge on the top and to the outside. Bolt the end shield to the front end of the side panel using two ¼" x ½" pan head machine screws, hex flange lock nuts.

Step 31 Bolt the two posts to the drum side panel using ¼" x ¾" hex bolts, lock washers and hex nuts.

Assembly Instructions (continued)

NOTE Before the bolts are tightened, the posts must be inserted into the slots of the brackets on the frame for proper alignment. After the posts are aligned, tighten the bolts. To secure side panel, push down and insert hairpin through hole in the post. See Photos 50, 51 and 52.

Photo 52 shows a Model 40 Hi-Cap Grain Cleaner with optional trash pan attachment, less auger.

Photo 53 shows a Model 40 Hi-Cap Grain Cleaner with optional trash pan, and 4' x 15' Trash Auger.

MODEL 40 8" x 8' FEED-IN AUGER
Assembly Instructions

Component Parts for 8' Feed-In Auger

Step 1 Place sealed bearing between bearing flanges, and bolt to auger head. BE SURE eccentric lock is on the outside. Use two 5/16" x ¾" carriage bolts, lock washers and nuts. See Photos 1 and 2.

Step 2 Slide stub shaft into upper end of auger flighting. BE SURE keyway is left exposed. Fasten with two 3/8" x 1-3/4" Grade 5 bolts, and 3/8" lock nuts. See Photos 3 and 4.

Step 3 Place auger head over auger tube, sliding stub shaft through bearing. See Photo 5.

Step 4 Install 1" locking collar onto bearing. BE SRUE to lock the collar with the rotation of the shaft. Auger shaft should stick through the locking collar 1-5/8". Securely tighten locking collar set screw. See Photos 6,7 and 8.

Step 5 Using one 2" strap bracket, four 3/8" x 1-$^{1}/_{4}$" bolts and nuts, fasten auger head securely to auger tube. See Photos 9 and 10.

Step 6 Place a ½" nut on the threaded stub bolt on the auger head. Slide motor mount angle over stub bolt and thread another ½" nut over the angle. Install motor mount base plate to the auger head, using two 3/8" x ¾" carriage bolts, lock washers and nuts. Do NOT tighten at this time. See Photos 11 and 12.

Step 7 Put two 5/16" x ¾" carriage bolts, lock washes and nuts through motor mount angel, and motor mount base plate.

Assembly Instructions (continued)

For 2 HP motor, bolt as in Photo 13.

For 1-1/2 HP motor, bolt as in Photo 14.

Step 8 Using 5/16" carriage bolt, lock washer and nut, bolt the rear of the motor mount base plate to the rear support on the auger head. See Photo 15.

Step 9 Bolt the auger pivot pin to under side of the auger head, using ½" x 3-1/2" bolt and lock nut. Auger pivot must have free movement. See Photo 16.

Step 10 Install ¼" key into auger shaft. Then put 12" pulley onto shaft, hub first. Make shaft flush with the outer edge of the pulley. Tighten setscrews. See Photos 17, 18 and 19.

Step 11 Bolt the motor to the motor mount base plate, using four 5/16" x 1" bolts, two flat washers, one look washer per bolt and nuts. See Photo 20.

Step 12 Put key and 3" pulley to the motor shaft; align motor pulley with 12" auger pulley and install belt. Adjust belt tension by raising the ½" nuts on the threaded stub bolts. After belt adjustment has been made, tighten all bolts left loose during motor mount assembly. See Photos 21 and 22.

Auger motor must be wired the same voltage as cleaner and checked for proper rotation.

Step 13 Using two 5/16" carriage bolts, lock washers and nuts, bolt the belt shield to the tabs on the auger head. See Photo 23.

Step 14 Put wooden bearing between bearing flanges and bolt to tail cage hopper with three 3/8" x ¾" carriage bolts, flat washes, lock washers and nuts. See Photos 24 and 25.

Step 15 Install hopper wheel bracket, using two 3/8" x ¾" carriage bolts, flat washers, lock washers and nuts. Slide two 5/8" SAE washers onto the shaft, then the wheel, and another 5/8" SAE washer. Finish by installing a 1-1/4" cotter pin. See Photos 26 and 27.

Step 16 Slide flow restrictor tube into intake end of auger tube with nut welded onto restrictor tube on the outer end. See Photo 28.

Step 17 Put the tail cage hopper assembly onto the auger tube. Insert the end of auger shaft into the wooden bearing. Secure the tail cage hopper assembly to the auger tube by using two 2" strap brackets. (Be sure to put the 2" strap bracket with pipe and threaded nut toward the top of the tail cage assembly as shown in Photo 29 and 30.) Securely fasten with four 3/8" x 1-1/4" hex head bolts as shown in Photo 31.

Assembly Instructions (continued)

Step 18 Put the flat end of the guide rods into the bushings provided at the back of the hopper. Align the holes in the rod with those in the bushing and secure with $^{1}/_{8}$" x 1-$^{1}/_{4}$" cotter pins as shown in Photos 32 and 33.

Step 19 Place the slide flow restrictor adjustment handle through the bushing welded to the 2" strap brackets and bolt to the flow restrictor tube with one 5/16" x ¾" hex head bolt and lock washer. Finish by turning the wing bolt into the nut welded on bushing of the strap bracket. See Photos 34, 35 and 36.

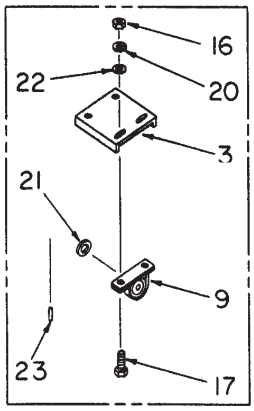
Step 20 Install the hopper latch and upper glide rod support bracket by placing the ends of the glide rod support bracket through the holes in the hopper and to the pointed guide rod ends. Fasten the latch to the hopper with the two 3/8" flat washers, and two cotter pins. See Photos 37 and 38.

Step 21 Assemble the hopper extensions using six ¼" x ½" pan head machine screws and ¼" hex head flanged whiz lock nuts. Once the upper extensions are assembled, fasten the glide rod guides to the upper extensions using ten ¼" x ½" pan head machine screws. See Photos 39 and 40. BE SURE to install bolts as shown in Photo ???.

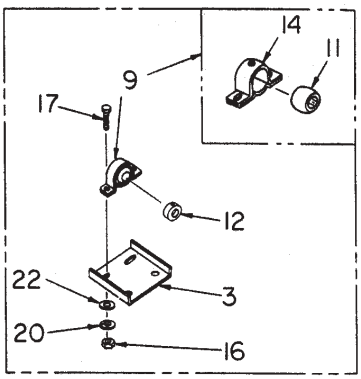
Step 22 Slide hopper extension assembly onto glide rods. Lift up latch and finish assembly by placing hairpin clips through holes of guide rods. See Photos 41 and 42.

OPERATE Auger and OBSERVE for proper rotation.
Change wires in motor for rotation correction.

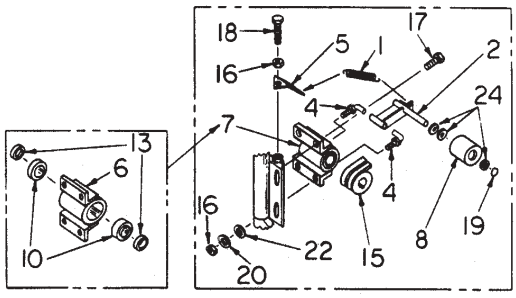
Bearing Revisions



Front Drum Bearing



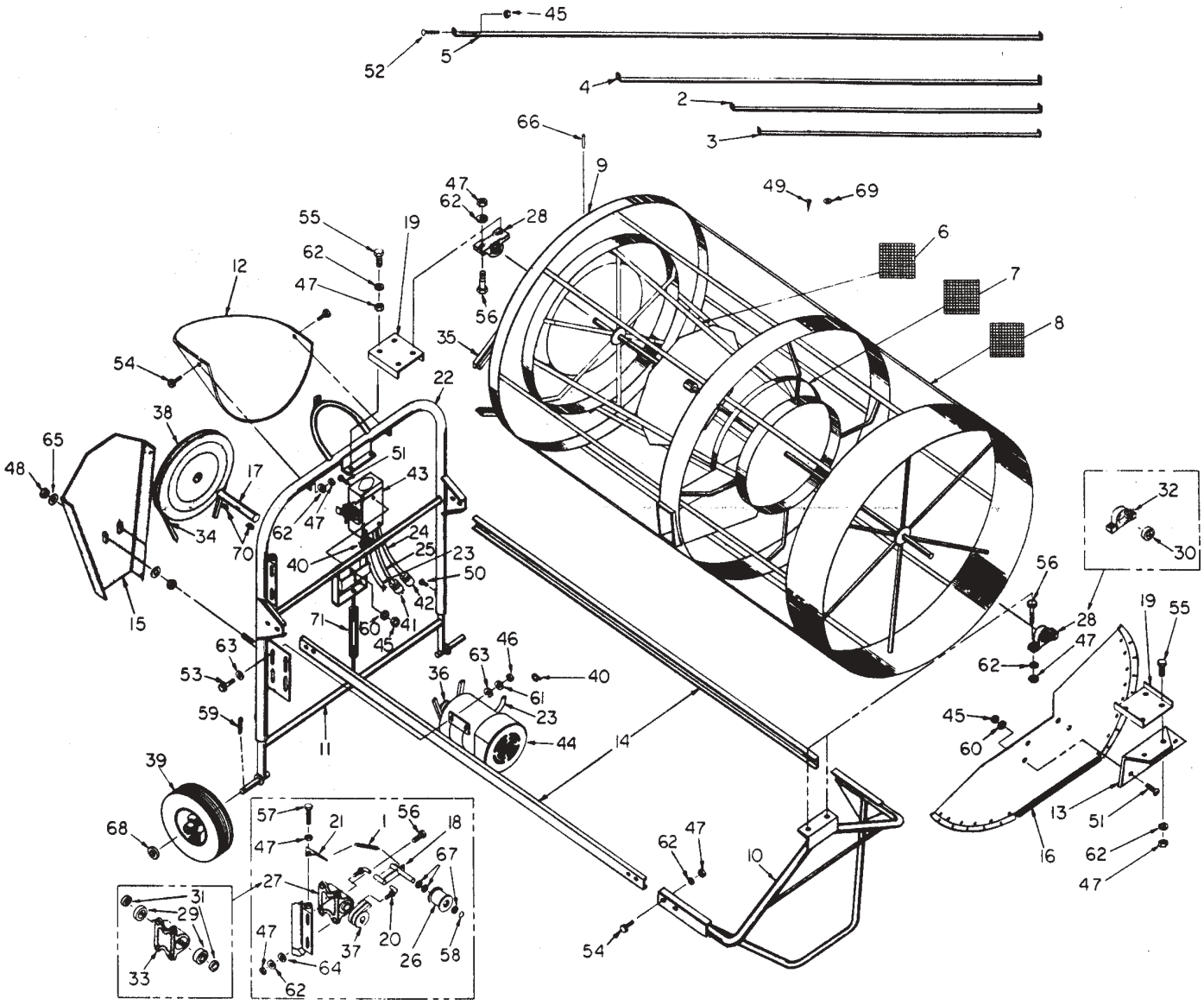
Rear Drum Bearing



Double Bearing

Reference Number	Part Number	Description	Quantity Needed
1	103C0025	Extension Spring, Belt Tightener	1
2	202B0046	Belt Tightener, Drum Drive	1
3	202B0050	Bearing Mount Extension Bracket	2
4	202B0051	Pivot Bolt, Belt Tightener Bracket, 3/8"	2
5	202B0052	Spring Tension Bracket	1
6	202B0063	Double Bearing Weldment	1
7	202B0064	Double Bearing Assembly	1
8	204B0018	Flat Idler Pulley	1
9	PT0133	Wood Pillow Block Bearing, 7/8" Complete	2
10	PT0208	Bearing, Eccentric Lock, 7/8"	2
11	PT0228	Wood Bearing, 7/8" Bore	2
12	PT0400	Collar, 7/8" Set Screw Lock	1
13	PT0402	Collar, Eccentric Lock, 7/8"	2
14	PT0414	2 Holed Stamped Pillow Block	2
15	PT0611	Pulley, 2-1/2" x 7/8", Double Groove, A Section	1
16	1FH0765	Hex Nut, 3/8"	9
17	2FH0855	Hex Bolt, 3/8" x 1"	8
18	2FH1041	Hex Bolt, 3/8" x 5-1/2", Full Thread	1
19	3FH0561	Snap Ring, 5/8"	1
20	3FH0791	Lock Washer, 3/8" Medium	8
21	3FH0829	Machinery Bushing, 1-3/8" O.D. x 7/8" I.D. x 14 GA	1
22	3FH0864	Flat Washer, 5/16"	8
23	3FH0930	Spring Pin, 3/16" x 1-1/4"	1
24	3FH0952	Flat Washer, 5/8" SAE	3

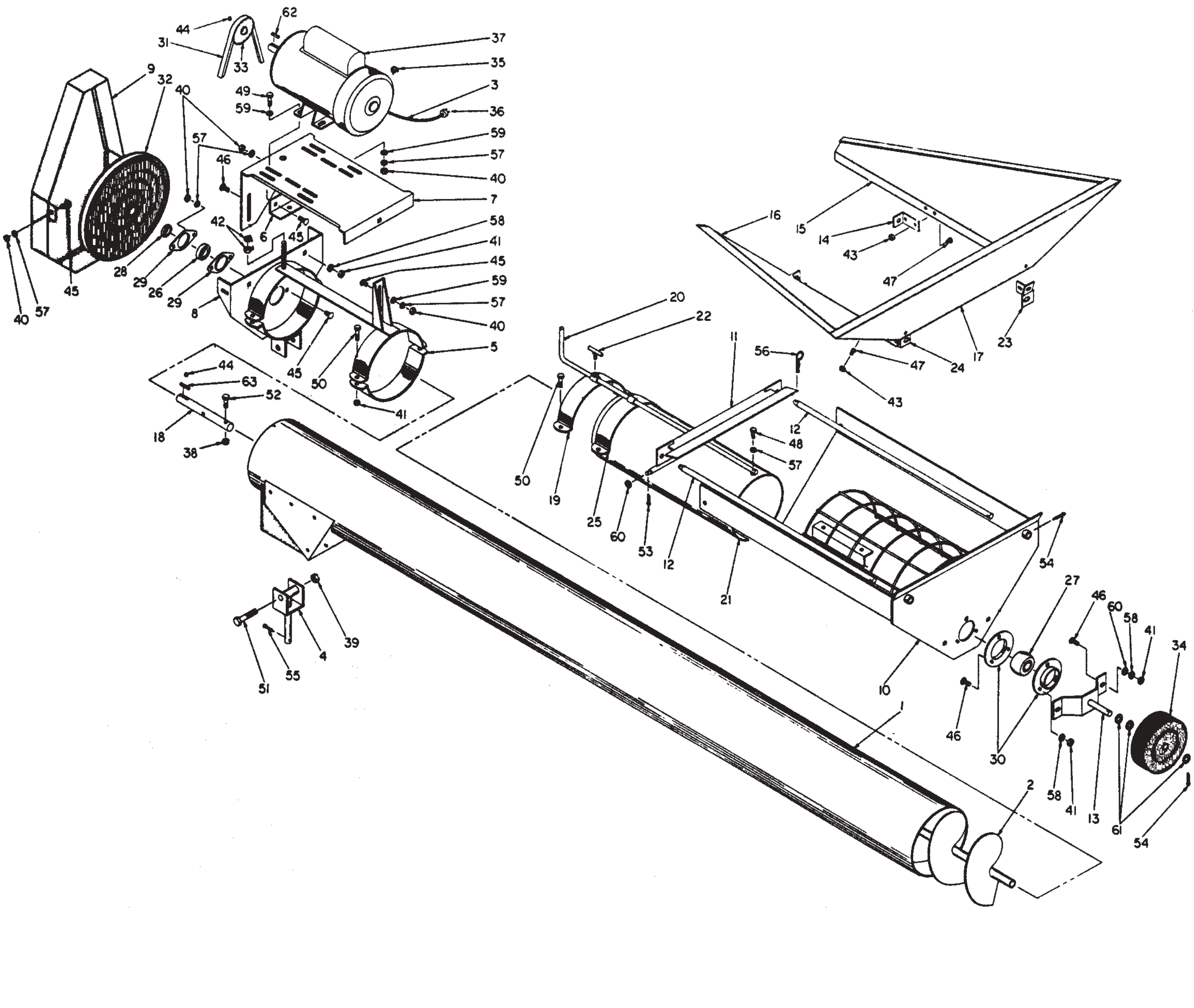
MODEL 40 HI-CAP GRAIN CLEANER PARTS



MODEL 40 HI-CAP GRAIN CLEANER PARTS

Reference #	Part #	Description	Qty Needed
1	10C30025	Extension Spring, Belt Tightener	1
2	202A0028	Inside Cone Screen Strap, 60-1/4"	1
3	202A0029	Inside Cone Screen Strap, 57-1/8"	1
4	202A0030	Inside Cone Screen Strap, 88-1/2"	1
5	202A0031	Outside Drum Screen Strap, 125-7/8"	7
6	202A0038	Screen, Inside Cone (Refer To Screen Selection Guide for Wire Size)	2
7	202A0039	Screen, Trash Spout Section	1
8	202A0040	Screen, Outside Drum, Set of 1-24" Width and 1-36" Width	1
9	202A0042	Drum	1
10	202B0001	Frame End, Rear	1
11	202B0022	Adjusting Leg, Front Frame	1
12	202B0025	Intake Pan	1
13	202B0034	Bracket, Discharge Shield	1
14	202B0035	Side Rail, Main Frame	2
15	202B0038	Belt Shield	1
16	202B0041	Discharge Shield	1
17	202B0044	Countershaft, 7/8" x 7-3/8"	1
18	202B0046	Belt Tightener, Drum Drive	1
19	202B0050	Bearing Mount Extension Bracket	2
20	202B0051	Pivot Bolt, Belt Tightener Bracket, 3/8"	2
21	202B0052	Spring Tension Bracket	1
22	202B0057	Main Frame, Front	1
23	202E0003	Power Cord, Cleaner Motor	1
24	202E0008	Power Cord, To Auger, 115 Volt	1
	202E0005	Power Cord, To Auger, 230 Volt	1
25	202E0009	Power Cord, Lead In, 115 Volt	1
	205E0004	Power Cord, Lead In, 230 Volt	1
26	204B0018	Flat Idler Pulley	1
27	PT0108	Double Bearing, Countershaft, 7/8"	1
28	PT0113	Drum Bearing, Set Screw, 7/8"	2
29	PT0208	Bearing, Eccentric Lock, 7/8"	2
30	PT0209	Bearing, 7/8"	1
31	PT0402	Collar, Eccentric Lock, 7/8"	2
32	PT0417	Bearing Housing, Drum	1
33	PT0418	Bearing Housing, Double	1
34	PT0497	Belt, Motor Drive, A-55	1
35	PT0512	V-Belt, Drum Drive, 1-90 (Matched Set)	2
36	PT0605	Pulley, Motor Drive, 5/8" x 2-1/4", A Section	1
37	PT0611	Pulley, 2-1/2" x 7/8", Double Groove, A Section	1
38	PT0690	Pulley, 7/8" x 14", A Section	1
39	MS0010	Wheel, 2-3/4" x 10" x 3/4"	2
40	1EL0401	Connector, 3/8", 115 Volt	3
	1EL0401	Connector, 3/8", 230 Volt	4
	1EL0403	Connector, 3/4", 115 Volt	1
41	1EL0667	Plug, 125 Volt, 30 Amp	1
	1EL0668	Plug, 230 Volt, 20 Amp	1
42	1EL0673	Twist Connector, 125 Volt, 30 Amp	1
	1EL0675	Twist Connector, 230 Volt, 20 Amp	1
43	2EL0320	Switch Box, 240 Volt, A.C., 30 Amp	1
44	3EL5064	Motor, 1/2 HP, TEFC, Electric	1
45	1FH0763	Hex Nut, 1/4"	17
46	1FH0764	Hex Nut, 5/16"	4
47	1FH0765	Hex Nut, 3/8"	23
48	1FH0767	Hex Nut, 1/2"	4
49	2FH0477	Self Tapping Hex Screw, #10 x 3/4"	12
50	2FH0617	Square Head Set Screw, 3/8" x 3/4"	2
51	2FH0726	Round Head Machine Screw, 1/4" x 3/4"	7
52	2FH0735	Round Head Machine Screw, 1/4" x 2-1/2"	10
53	2FH0830	Hex Bolt, 5/16" x 1"	4
54	2FH0855	Hex Bolt, 3/8" x 1"	10
55	2FH0856	Hex Bolt, 3/8" x 1-1/4"	4
56	2FH0857	Hex Bolt, 3/8" x 1-1/2"	6
57	2FH1041	Hex Bolt, 3/8? X 5-1/2", Full Thread	1
58	3FH0561	Snap Ring, 5/8"	1
59	3FH0730	Cotter Pin, 3/16" x 1-1/4"	2
60	3FH0789	Lock Washer, 1/4"	7
61	3FH0790	Lock Washer, 5/16" Medium	4
62	3FH0791	Lock Washer, 3/8" Medium	22
63	3FH0863	Flat Washer, 1/4"	8
64	3FH0864	Flat Washer, 5/16"	4
65	3FH0867	Flat Washer, 1/2"	4
66	3FH0930	Spring Pin, 3/16" x 1-1/4"	1
67	3FH0952	Flat Washer, 5/8" SAE	3
68	3FH0954	Flat Washer, 3/4" SAE	2
69	3FH0976	Cupped Washer, 7/8" O.D. x 17/64"	12
70	3FH0992	Woodruff Key, 3/16" x 1"	2
71	6FH001	Tornbuckle, 5/8"	1

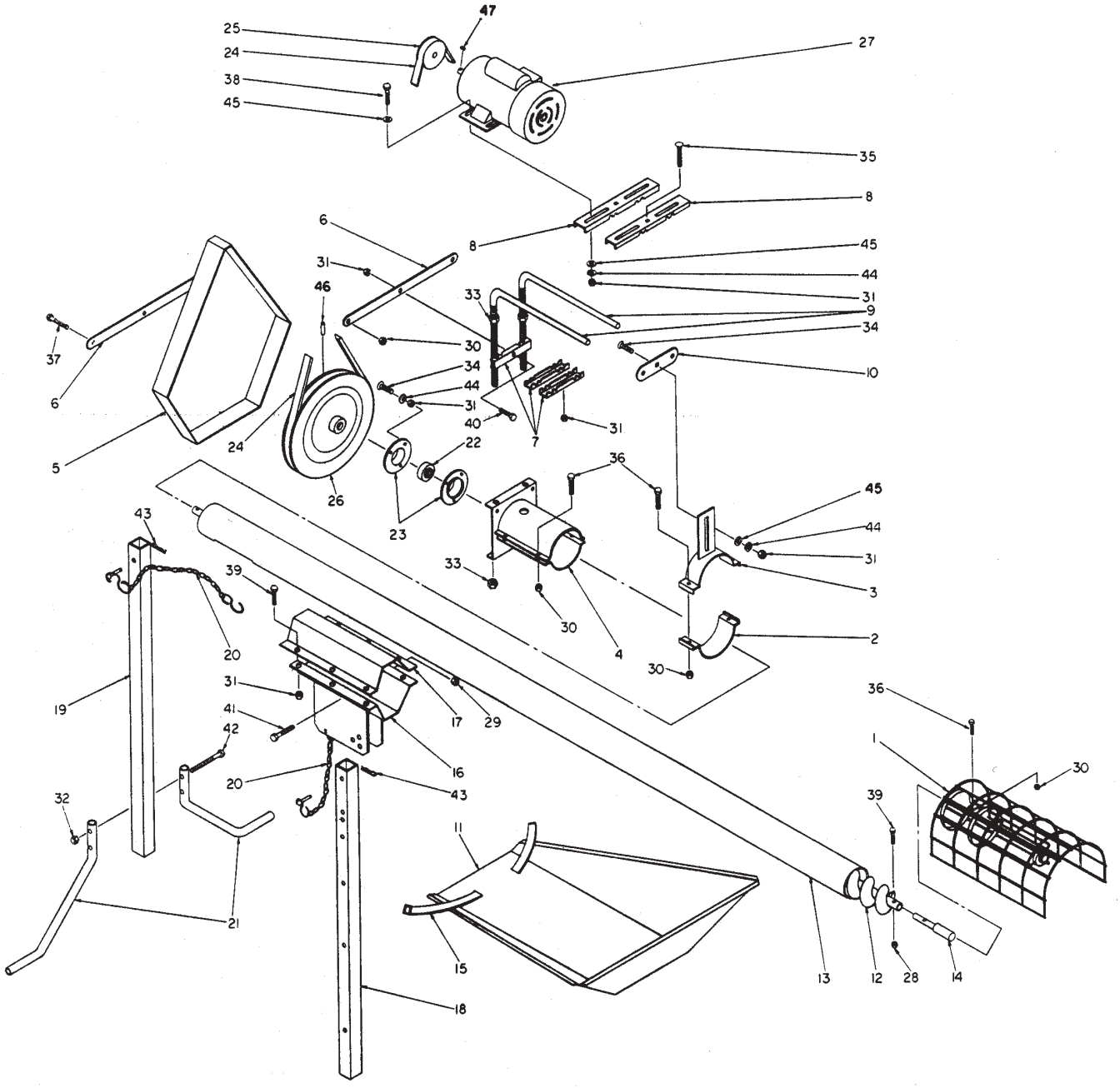
8” x 8’ Auger



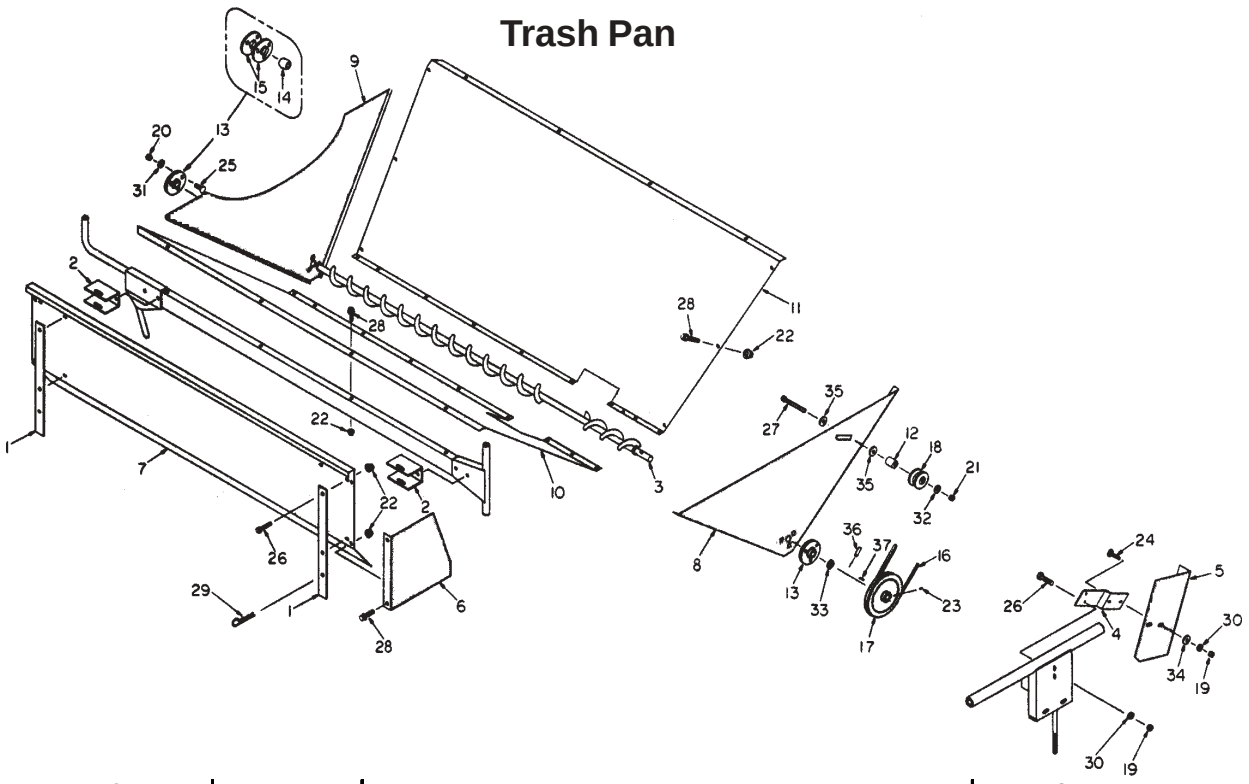
8” x 8’ Auger Parts List

Reference Number	Part Number	Description	Quantity Needed
1	202C0137	Auger Tube, 7"	1
2	202C0410	7 OD Auger, 8'	1
3	202E0006	Power Cord (Specify 115 Volt or 230 Volt)	1
4	204C0010	Auger Pivot	1
5	205C0002	2" Strap Bracket	1
6	205C0003	Motor Mount Angle	1
7	205C0005	Motor Mount Base Plate	1
8	205C0008	Auger Head	1
9	205C0012	Motor Belt Shield	1
10	205C0016	Tail Cage Hopper	2
11	205C0022	Latch and Glide Rod Support	1
12	205C0025	Glide Rod	2
13	205C0027	Hopper Wheel Bracket	1
14	205C0030	Glide Rod Guide	1
15	205C0031	Right Sliding Hopper Sheet	1
16	205C0032	Left Sliding Hopper Sheet	1
17	205C0038	Sliding Hopper End Sheet	1
18	205C0039	Stub Shaft	1
19	205C0040	Flow Restrictor Strap Bracket	1
20	205C0043	Flow Restirctor Adjustment Handle	1
21	205C0044	Flow Restrictor Tube	1
22	2FH0428	Adj. Screw, 5/16 x 7/8	1
23	205C0056	Right End Glide Rod Guide	1
24	205C0057	Left End Glide Rod Guide	1
25	205C0060	Flow Restrictor Strap Bracket, Without Nut	1
26	PT0203	Bearing, Sealed With Eccentric Lock, 1"	1
27	PT0219	Wood Bearing, 1-1/4" Bore	0
28	PT0401	Collar, Eccentric Lock, 1"	2
29	PT0420	2 Hole Bearing Mounting Flange	1
30	PT0424	3 Hole Center Flange Mount	1
31	PT0490	B-48 V-Belt	1
32	PT0681	Pulley, 1" x 12", B Section	1
33	PT0706	Motor Drive Pulley, 5/8" x 3", B Section	1
34	MS0021	6" Rubber Wheel	1
35	1EL0401	Connector, 3/8"	1
36	1EL0667	Plug, 125 Volt, 30 Amp.	1
	1EL0668	Plug, 230 Volt, 20 Amp.	1
37	3EL5097	Motor, 1-1/2 HP, TEFC, Electric	1
38	1FH0736	Lock Nut, 3/8"	2
39	1FH0738	Lock Nut, 1/2"	1
40	1FH0764	Hex Nut, 5/16"	11
41	1FH0765	Hex Nut, 3/8"	11
42	1FH0767	Hex Nut, 1/2"	2
43	1FH0995	Hex Flange Whiz Lock Nut, 1/4"	16
44	2FH0512	Socket Head Set Screw, 5/16" x 5/16"	3
45	2FH0645	Carriage Bolt, 5/16" x 3/4"	7
46	2FH0659	Carriage Bolt, 3/8" x 3/4"	7
47	2FH0747	Pan Head Machine Screw, 1/4" x 1/2"	16
48	2FH0828	Hex Bolt, 5/16" x 3/4"	1
49	2FH0830	Hex Bolt, 5/16" x 1"	4
50	2FH0856	Hex Bolt, 3/8" x 1-1/4"	8
51	2FH0913	Hex Bolt, 1/2" x 3-1/2"	1
52	2FH1057	Hex Bolt, 3/8" x 1-3/4", Grade 5	2
53	3FH0712	Cotter Pin, 1/8" x 3/4"	2
54	3FH0714	Cotter Pin, 1/8" x 1-1/4"	3
55	3FH0730	Cotter Pin, 3/16" x 1-1/4"	1
56	3FH0770	Cotter Hair Pin, 1/8" x 2-3/8"	2
57	3FH0790	Lock Washer, 5/16"	12
58	3FH0791	Lock Washer, 3/8"	7
59	3FH0864	Flat Washer, 5/16"	9
60	3FH0865	Flat Washer, 3/8"	4
61	3FH0952	Flat Washer, 5/8" SAE	3
62	3FH1015	Square Key, 3/16" x 1"	1
63	3FH1026	Square Key, 1/4" x 1"	1

4” x 15’ Fines Auger

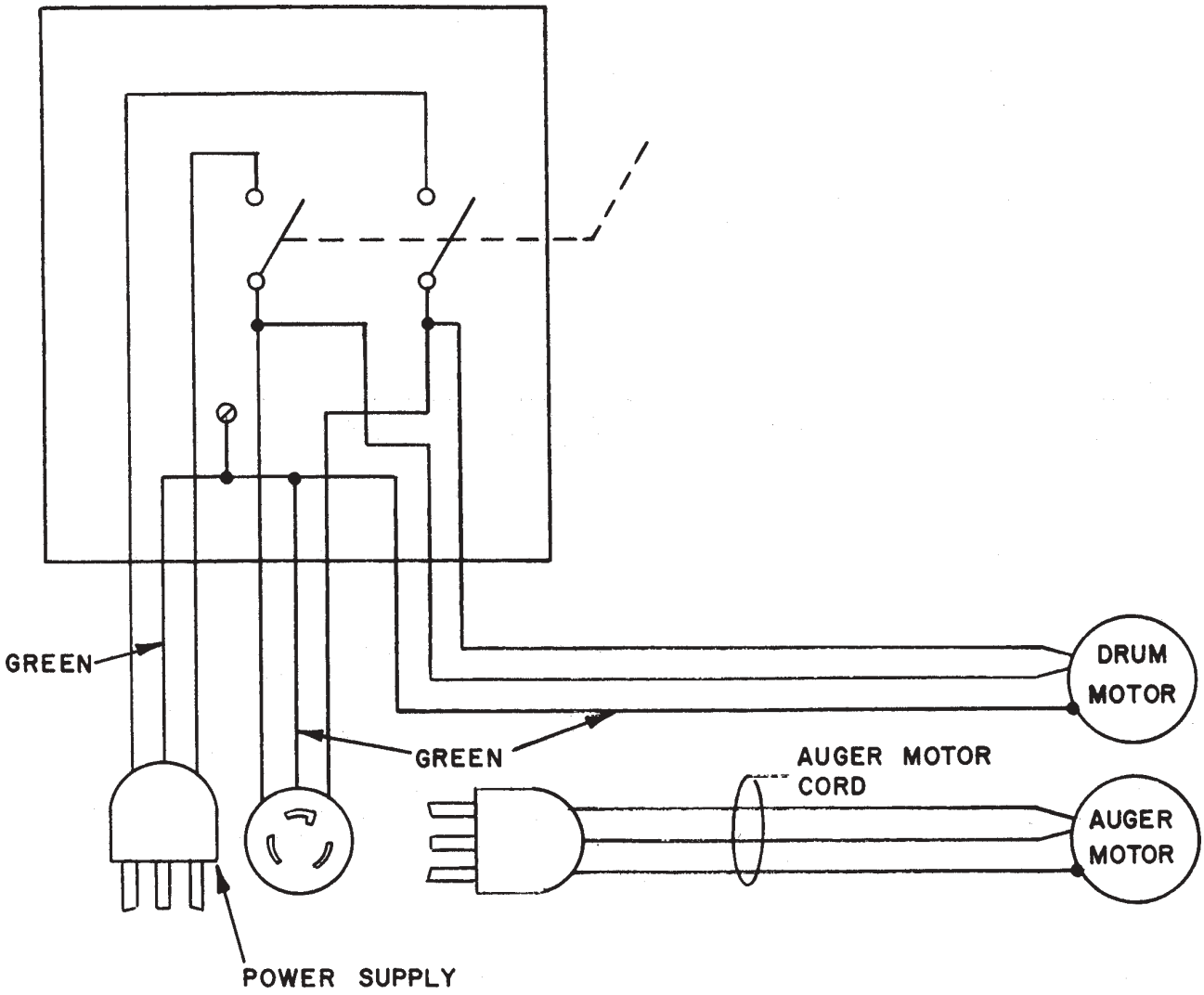


Trash Pan



Reference Number	Part Number	Description	Quantity Needed
1	202D0004	Drum side panel support post	2
2	202D0005	Side panel frame bracket	2
3	202D0008	Discharge auger	1
4	202D0009	Belt shield support bracket	1
5	202D0010	Lower belt shield	1
6	202D0011	Upper belt shield	1
7	202D0012	Drum side panel	1
8	202D0014	End panel - Front	1
9	202D0017	End panel - Rear	1
10	202D0019	Trash pan side panel - Right	1
11	202D0020	Trash pan side panel - Left	1
12	205B0057	Idler spacer bushing, 3/4" long	1
13	PT0132	Wood Bearing, 7/8" (complete)	2
14	PT0228	Wood Bearing, 7/8"	1
15	PT0426	3 Hole stamped flangette	2
16	PT0516	A-112, V-Belt	1
17	PT0660	Pulley, 7/8" x 8", A section	1
18	PT0711	Flanged idler pulley, 1/2" x 3-1/4"	1
19	1FH0763	Hex nut, 1/4"	4
20	1FH0764	Hex nut, 5/16"	6
21	1FH0767	Hex nut, 1/2"	1
22	1FH0970	Hex flange lock nut, 1/4"	35
23	2FH0512	Socket head set screw, 5/16" x 5/16"	1
24	2FH0631	Carriage bolt, 1/4" x 3/4"	2
25	2FH0645	Carriage bolt, 5/16" x 3/4"	6
26	2FH0803	Hex bolt, 1/4" x 3/4"	6
27	2FH0911	Hex bolt, 1/2" x 3"	1
28	2FH0979	Hex flange whiz lock screw, 1/4" x 5/8"	31
29	3FH0770	Cotter hair pin, 1/8" x 2-3/8"	2
30	3FH0789	Lock washer, 1/4"	4
31	3FH0790	Lock washer, 5/16"	6
32	3FH0793	Lock washer, 1/2"	1
33	3FH0834	Machinery bushing, 7/8" ID x 1-3/8" OD x 10 GA	1
34	3FH0863	Flat washer, 1/4"	2
35	3FH0867	Flat washer, 1/2"	2
36	3FH0932	Spring pin, 3/16" x 1-1/2"	1
37	3FH0992	Woodruff key, 3/16" x 1"	1

Wiring Diagram 115V. or 230 V.

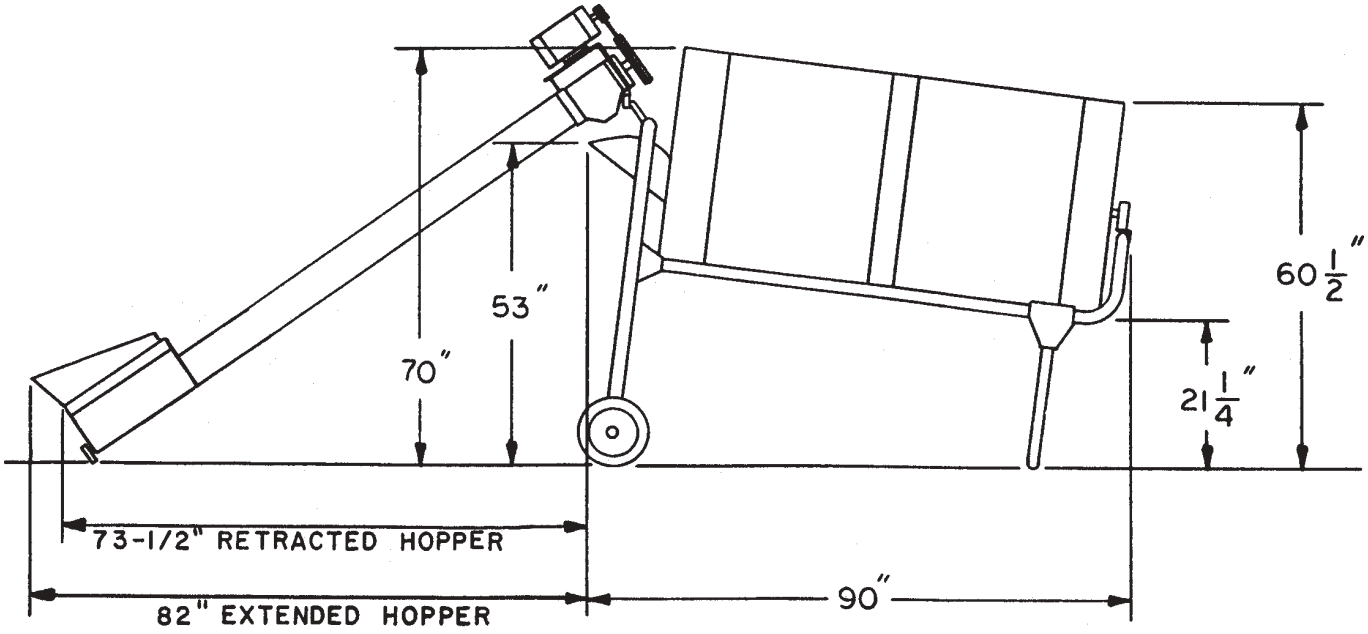


Capacities (Shelled Corn)

15% Moisture Test.....1600 BPH
25% Moisture Test.....1000 BPH
30% Moisture Test.....700 BPH
35% Moisture Test.....400 BPH

The capacities listed above can vary with grains, amount of foreign material, and test weights.

OVERALL DIMENSIONS



AVAILABLE SCREENS

CONE SCREENS	OUTSIDE DRUM SCREENS
Corn Screens	
2 x 2 x 19 GA wire - Small	4-1/2 x 4-1/2 x 21 GA wire Small
5/8 x 5/8 x 17 GA wire - Standard	4 x 4 x 23 GA wire - Standard
3/4 x 3/4 x 16 GA wire - Large	3-1/2 x 3-1/2 x 20 GA wire - Large
Popcorn Screens	
4 x 4 x 23 GA wire - Small	8 x 8 x 25 GA wire - Small
3 x 3 x 21 GA wire - Standard	6 x 6 x 25 GA wire - Standard
2 x 2 x 19 GA wire - large	5 x 5 x 23 GA wire - Large
Soybean Screens	
3 x 3 x 21 GA wire - Small	6 x 6 x 25 GA wire - Small
2-1/2 x 2-1/2 x 19 GA wire - Standard	5 x 5 x 23 GA wire - Standard
2 x 2 x 18 GA wire - Large	4-1/2 x 4-1/2 x 21 GA wire - Large
Screens Recommended For Cleaning Corn From Soybeans	
3 x 3 x 17 GA wire - Standard	6 x 6 x 25 GA wire - Small
	5 x 5 x 23 GA wire - Standard
Wheat, Milo, Oats and Barley Screens	
4 x 4 x 23 GA wire - Small	10 x 10 x 23 GA wire - Small
3 x 3 x 21 GA wire - Standard	9 x 9 x 29 GA wire - Medium Small
2 x 2 x 19 GA wire - Large	8 x 8 x 25 GA wire - Standard
	7 x 7 x 25 GA wire - Medium Large
	6 x 6 x 25 GA wire - Large
Sunflower Screens	
3 x 3 x 21 GA wire - Small	8 x 8 x 25 GA wire - Small
2 x 2 x 19 GA wire - Standard	6 x 6 x 25 GA wire - Standard
5/8 x 5/8 x 17 GA wire - Large	5 x 5 x 23 GA wire - Large
Rice Screens	
4 x 4 x 23 GA wire - Standard	10 x 10 x 23 GA wire - Standard
3 x 3 x 21 GA wire - Large	8 x 8 x 25 GA wire - Large
Rape, Millet & Granola Screens	
No cone screen specified	12 x 12 x 24 GA wire

Various other sizes available upon request.

Write: David Manufacturing Company
1600 12th Street N.E.
Mason City, Iowa 50401
Call: 641-424-7010

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This Equipment shall be installed in accordance with the current installation codes and applicable regulations which should be carefully followed in all cases. Authorities having jurisdiction should be consulted before installation occurs.

For more information, contact the DMC Distribution Center closest to you.

Illiana Distribution Center
1004 E. Illinois St.
Assumption, Illinois 62510
Phone: 217-226-5100
FAX: 217-226-5070

Clear Lake Distribution Center
5205 4th Ave South
Clear Lake, Iowa 50428
Phone: 641-357-3386
FAX: 641-357-1928

internet: http://www.dmc-davidmanufacturing.com