OWNER'S MANUAL



DESIGN III SERIES GRAIN STIR-ATOR

DAVID MANUFACTURING CO.

1600 12th Street N.E., Mason City, Iowa USA 50401

641-424-7010

WARRANTY for DIII Stir-Ator

The guarantee is for one year from date of installation to be free of defects in material or workmanship when properly installed and operated in accordance with instructions in this booklet. Warranted parts will be exchanged F.O.B. Mason City, Iowa without charge to the user. Damage resulting from negligence voids the warranty. Warranty does not include labor, installation or delivery of replacement parts.

Electric motors are covered by the warranties of the respective manufacturers. Electric service centers are located in all regions. Consult your dealer.

The Warranty and liability of David Manufacturing Company, its distributors, dealers and agents is limited to replacement, without charge, of defective parts, as outlined above. DMC makes no other warranties, express or implied except as stated herein, and disclaims all obligations and liabilities other than specified.

The Manufacturer reserves the right to make changes in specifications or prices without incurring obligation on previously produced merchandise.

Patent Notice

The Kalke-Murphy Grain Stir-Ator is manufactured under exclusive license for United States Patent Numbers 3,580,549 and 4,374,621. Infringing manufacturers, sellers, and users are subject to prosecution in the Federal Courts.

STIR-ATOR is a registered trade-mark of David Manufacturing Company.

TABLE OF CONTENTS

!CAUTIONS!	iii & iv
Decal Placement	v
Final Inspection Check List	vi
Shipping Weights	vii
Installation	1 - 19
Overall Dimension Chart	20
Auger Length & Dimension (Drawing A)	21
Wiring Diagrams	Single Phase-230V 22
	Three Phase-230V 23
	Three Phase-440V 24
Switch Boxes and Suspensions (Drawing B)	25
Track Unit	25
Yoke	26
Single Auger Trolley	27
Double Auger Trolley	28
Triple Auger Trolley	29
Parts Listing	
Gear Motor 502A0040 - 230 Volt	
Gear Motor 502A0045 - 440 Volt	38
Stir-Guard Option	
Offset Auger Option	
Operational Adjustments	41 - 42
Operations of Design III	
Start-Up Procedure in a Full Bin	
Stir-Guard Operation & Stir-Ator Forward Travel Time	
Design III Drying Guide & Storage	
Drying Chart	
Design III Trouble Shooting Guide	48 - 49





BE A SAFE OPERATOR

Before operating, familiarize yourself with the machine. It will help you to operate your Design III Stir-Ator more efficiently, with better quality returns to you.

- 1. Read and understand the Owner's Manual.
- 2. Keep all safety shields in place.
- Disconnect all electrical power prior to inspecting, servicing, lubricating, or adjusting the equipment.
- 4. Keep hands, feet, and clothing from moving parts while in operation. NEVER stand or sit on unit while in operation.
- 5. To avoid serious injury or death, stay away from the unit and make sure everyone else is clear of the Stir-Ator before starting or operating the unit.
- 6. Do NOT operate the Stir-Ator unless shut-off chain has been properly installed and adjusted.
- CAUTION SHOULD BE EXERCISED if it is necessary to enter the bin while the Stir-Ator is in operation.
- 8. Before operating your Stir-Ator, familiarize yourself with the machine. Know how to operate and adjust it. This will enable you to get maximum efficiency from the equipment, plus better quality grain as a result.
- 9. When starting the Stir-Ator in a full bin of grain, care should be exercised because the augers can be stuck in the grain, causing damage to the Stir-Ator, or to the bin.
- 10. Operating the Stir-Ator during bin unloading can be beneficial to the unloading process as well as prevent auger damage.
- 11. BURYING THE UNIT WILL DAMAGE THE BIN AND WILL VOID YOUR DESIGN III WARRANTY.
- 12. DO NOT OPERATE DESIGN III STIR-ATOR IN AN EMPTY BIN. To test the unit in an empty bin, make sure no one is inside the bin, then turn power "on" and "off" immediately from the outside of the bin. DO NOT let it run in an empty bin.
- 13. All electrical hook-ups should be in accordance to the National Electrical Code. Be sure equipment and bins are properly grounded.
- 14. When not operating the unit for extended periods of time, or in some cases while emptying the bin, it may be best to position the trolley at the bin wall to eliminate possible Stir-Ator or bin damage.



A CAUTION A

SAFETY FIRST PAYS

Read and heed all safety reminders listed below.

To perform service work on a stirring device installed in a bin:

- 1. A safe ladder should be used.
- 2. When setting a ladder against the Stir-Ator, a vise grip or some type of tie down should be used in the front and back of the track drive unit. This keeps the Stir-Ator from rolling or sliding around the bin while service work is being performed.
- 3. Because the Stir-Ator is suspended from chains in the center, care has to be exercised whenever a ladder is positioned against the Stir-Ator. The Stir-Ator can move or swing from the weight of a person climbing on the ladder.
- 4. Climbing out on the main frame from either a ladder or roof manhole should NOT be attempted. The Stir-Ator can swing, causing a fall.
- 5. During heavy service work, such as removing auger drive, electric motors, or replacing electrical swivel, tying the ladder to the main frame or to some other solid component is advised.
- 6. Be sure to have rubber pads or some method of keeping the ladder from slipping on the bin or silo floor. Slipping can cause a fall or serious accident.
- 7. Do NOT climb Stir-Ator down augers to make adjustments or repairs. Slipping could cause falling, bodily injury, or both.
- 8. If an unusual amount of service work is to be performed on a Stir-Ator, removing the augers and lowering the unit onto saw horses may be the safest way to repair the unit.
- 9. Caution needs to be exercised when using a ladder to perform service work in a partially filled grain bin. The ladder can sink into the grain, allowing it to fall.

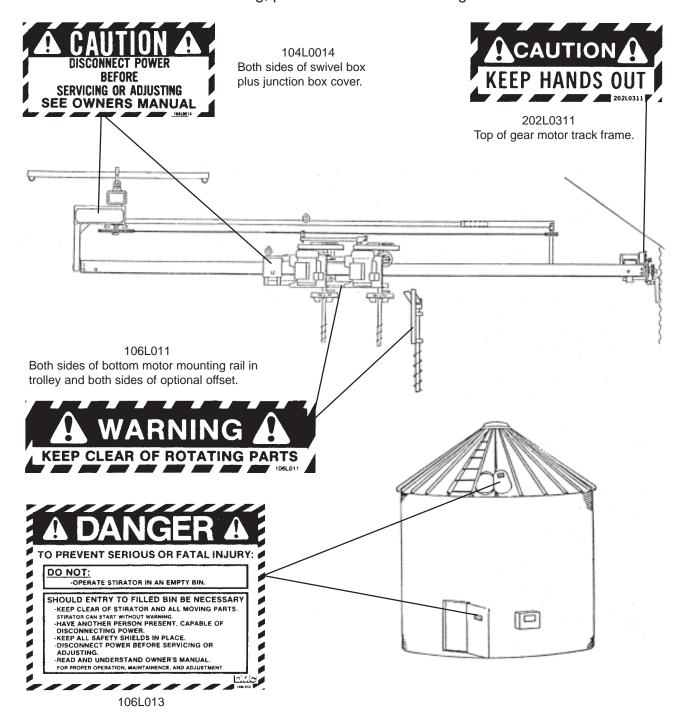
THE DECALS SHOWN ON THIS PAGE MUST BE DISPLAYED AS SHOWN

Replacements are available upon request. Write to the following address: David Manufacturing. Co., 1600 12th St N.E., Mason City, IA 50401

Please note: 1. The decals on this page are note actual size.

2. Keep all decals wiped clean at all times.

3. All decals must be replaced if they are destroyed, missing, painted over or can no longer be read.



FINAL INSPECTION CHECK LIST

- 1. READ THE STIR-ATOR OWNER'S MANUAL BEFORE INSTALLATION. MANY SERVICE PROBLEMS WILL BE ELIMINATED IF STIR-ATOR IS PROPERLY INSTALLED.
- 2. Is there at least 10-1/4" clearance from the center of the track to the lowest part of the roof and roof braces.
- 3. Are the track splices correctly installed? Consult the diagrams in the owner's manual.
- 4. Is the trolley installed correctly (drive arm pointing toward the center of the bin)?
- 5. Are the bolt heads holding the yoke end to the frame on the inside on the frame rails, and the cotter key spread on the pivot tube?
- 6. Is the suspension bar properly hung, LEVEL, with the end loops down, is the 1/2" x 2" bolt holding suspension bar tightly secured? Is the lock nut on tee fitted properly?
- 7. Is the suspension bar so positioned that the bin "S" hook, to which the shut-off chain is attached, is at a right angle to the switch box chain, as shown in Photos 72 and 73? BE SURE THE POWER CORD HAS MORE SLACK THAN THE SHUT-OFF CHAIN, or the power cord could be torn out of the switch box if the Design III should malfunction and engage the shut-off.
- 8. Is the frame of the Design III about 1" higher at the center of the bin for each 18' of bin diameter?
- 9. Are augers 3 inches off the drying floor at bin wall? (See Photo 70)
- 10. Were the augers deburred with a file? Were the clamp bolts torqued to 140 foot pounds? Was the roll pin installed correctly?
- 11. Did you note the instruction NOT to weld flighting at the top end of the auger?
- 12. Are you sure that the electrician connected the black and white wires to the 230 volt terminals in the operating switch, and the green wire to the ground? See Wiring Diagram. BE SURE BIN IS GROUNDED.
- 13. Are you keeping a record of the serial number for each owner?
- 14. Did you make sure that the owner received and signed for his OWNER'S MANUAL, and was instructed that reading and understanding the manual will help immensely at drying time?
- 15. Did you install the safety decals on the inside of the walk-in door and the manhole cover?

PROPER INSTALLATION GREATLY REDUCES SERVICE CALLS



DESIGN III STANDARD EQUIPMENT SHIPPING WEIGHTS

Stir-Ator weights and auger downpull are two factors to take into consideration when determining the extra stress that is placed on the drying bin wall and roof.

For total weight, add Chart 1 and Chart 2 weights together.

Chart 1
Stir-Ator Shipping Weights

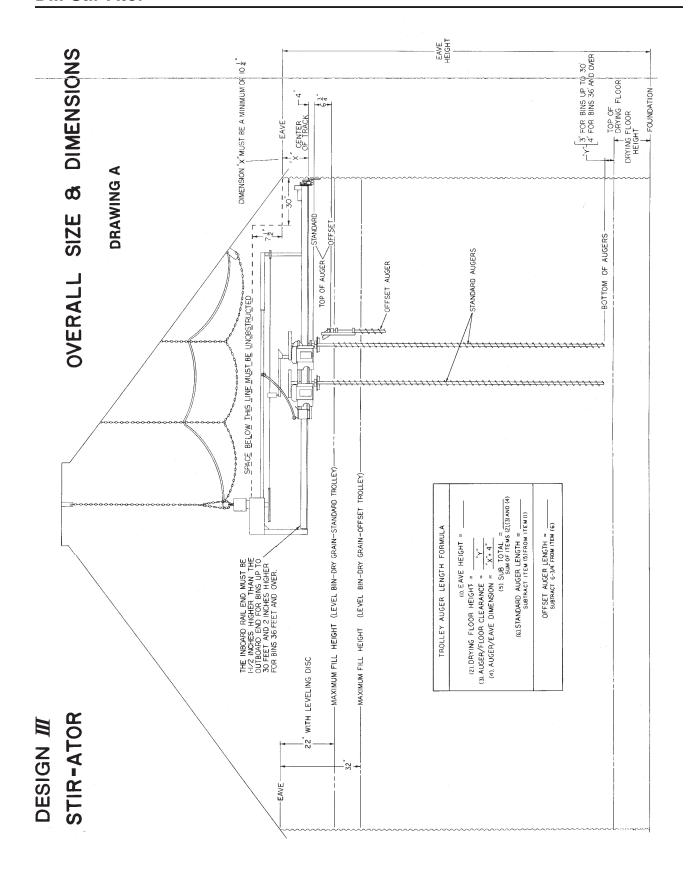
Bin Size	Size Single Auger Double Auge		Triple Auger		
18'	625	770			
21'	663	808	1030		
24'	700	844	1070		
27'	737	882	1112		
30'	775	920	1150		
33'	812	960	1200		
36;	867	1014	1265		
40'	905	1052	1306		
42'	940	1088	1345		
48'	1050	1200	1500		

Additional Weight With Optional Equipment					
2 HP, single phase motor	33# per motor				
2 HP, three phase motor	13# per motor				
18' augers	5# per auger				
20' augers	10# per auger				

Chart 2

Auger Downpull in Pounds		Initial Startup - Wet Grain
16' auger	14' grain	368# per auger
18' auger	16' grain	390# per auger
20' auger	18' grain	410 # per auger
Auger Downpull in Pounds		Normal Operation - Wet Grain
Auger Downpull in Pounds 16' auger	14' grain	Normal Operation - Wet Grain 207# per auger
	14' grain 16' grain	-





Installation of the DESIGN III

1. Before starting to assemble the bin, the DESIGN III Stir-Ator, less the augers, should be laid in the center of the concrete pad. See Photo 1 (below). The top ring of the metal bin is then assembled in the usual way.

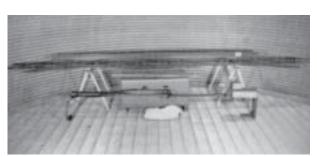


Photo 1



Photo 2

2. **NOTE:** The wall track has two different hole spacing: 18-15/16" on the single and double auger units and 12-5/8" on the triple auger units.

The track is installed 10-1/4" distance from the eave of the bin to the center line of the track. Bins with steeply pitched or domed roofs may allow the 10-1/4" distance to be reduced; roofs with low or flat profiles may require more clearance. Reinforcements for the roof or roof ladder which might interfere with the movement of the Stir-Ator should be trimmed. See Drawing A on page 24. If this cannot be done, the 10-1/4" distance from the eave to the track bolt center line must be **increased proportionately**.

3. The Stir-Ator wall track is installed as follows: 5/16" holes for the track bolts should be drilled or punched in the bin wall progressively; starting with a double hole end of a track section, the second hole is drilled or punched through the bin wall and the three-hole connector, track bracket, 5/16" x 3", Grade 5 carriage bolt, cup washer and hex nut are installed. Then, using the hole in the track as a guide, tighten bolts as you go, drill or punch the next hole and install an additional track bracket and bolt, repeating this procedure around the bin. See Photos 2, 3 & 4 and parts drawing on page 25.



Photo 3



Photo 4

4. **NOTE:** If upon making the complete circuit of the bin and the last section required is less than 3 feet in length, shorten the length of the preceding piece so that a 3 foot or longer section can be used. There should be slightly more material than required.

The end of the last section should be cut off so as to fit snugly against the starting end of the first length, and a 5/16" hole drilled about 5/8" from the cut-off end. All track joints should be aligned as smoothly as possible - any misalignment should be corrected by grinding or filing and bending if necessary. See Drawing A on page 24 or Photo 4.

5. Because the Stir-Ator auger runs close to the bin wall, **no inside wall ladder can be used.** A portable ladder is advised and can be obtained from your dealer. The closer the Stir-Ator auger runs to the bin wall, the less chance of grain spoilage. Drying in cold weather can require the use of wall liners or air tubes to minimize bin wall spoilage. (Skid plates should be put on all walk-in doors that extend into the bin over 2-1/2".)



!!CAUTION!!



After the wall track is installed, check clearance between the track and bin sheet splice bolts. Long bolts may catch on Stir-Ator track wheel or pivot pin on track unit. To alleviate this problem, cut off the bolts OR reverse them. See Photo 5.

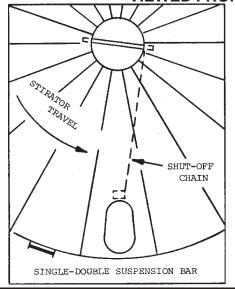
6. The bin roof is then assembled and the suspension chains are dropped through the fill-hole. Two chains are used on the Single and Double auger units and three on the Triple Auger Units. Space the suspension hooks equally apart around the center fill-hole

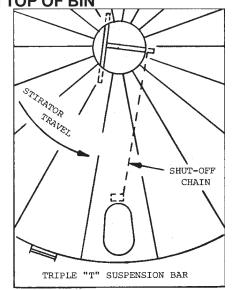


Photo 5

collar, placing them in reference to the manhole where the shut-off switch box is to be located. See Diagrams Below. A hole in the suspension hooks is provided if locking the hooks in position is desired.

!!CAUTION!! DO NOT USE THE BOLT IN THE SUSPENSION HOOK TO SUPPORT WEIGHT OF THE ENTIRE UNIT. VIEWED FROM TOP OF BIN





7. Install safety switch shut-off switch box and box brace to bin roof above the manhole opening. See Drawing A, page 24 for recommended mounting height.

Mount the switch box using the mounting hardware provided, refer to Drawing B, page 25 for size and description of appropriate hardware and installation for each box. See Photo 6.

!!CAUTION!!

Mounting the box lower than the minimum recommended height could cause the box to be caught by the Stir-Ator as it moves around the bin, causing possible damage or serious electrical shock.



8. Fasten shut-off support chain(s) to bin roof using existing roof bolts and 5/16" flat washer and hex nut. Chains should be equally spaced between switch box and center of the in. See Photo 7 or Drawing A on page 24.



Photo 7

9. To assemble the DESIGN III Stir-Ator, place frame rails on two saw horses and remove the two 5/16" bolts holding the frame rails together, spacing them approximately eight inches. See Photos 8 and 9.



Photo 8



Photo 9

10. FOR SINGLE AUGER UNITS: Bolt inboard frame end to frame rails using six 3/8" x 1" carriage bolts, 3/8" lock washers and hex nuts.

NOTE: LOCATE BOLT HEADS TO INSIDE OF FRAME RAILS. See Photos 10 and 11.





Photo 10 Photo 11 SEE PAGE 5 FOR DOUBLE AND TRIPLE AUGER UNITS.

11. FOR DOUBLE AND TRIPLE AUGER UNITS: Bolt outboard frame end and track unit assembly to the frame rails using six 3/8" x 1" carriage bolts, 3/8" lock washers and hex nut.

NOTE: LOCATE BOLT HEADS TO INSIDE OF FRAME RAILS. See Photos 12 and 13.

The outboard frame end has two pivot positions for either 1-1/2 or 2 HP units. The pivot position is stamped on top of the pivot clevis and this must be the same as the trolley HP being used. See Photos 14 and 15.

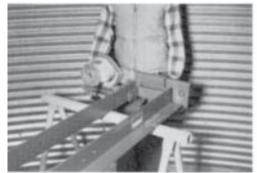


Photo 12 Photo 13

NOTE: LOCATE BOLT HEADS TO INSIDE OF FRAME RAILS. See Photos 12 and 13.

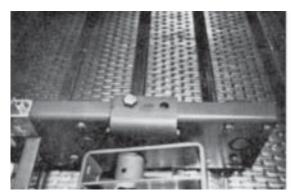


Photo 14 (1-1/2 HP position)

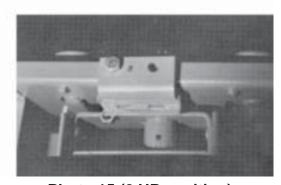


Photo 15 (2 HP position)

12. NOTE: 36' and larger double auger trolleys will require the hold-down rods to be moved to the bottom hole position. This is done by removing the cotter pin and pulling the rod out and reinserting it in the bottom holes. Refer to Photo 17 for proper location of the hold-downs.

Place trolley on frame with the junction box toward center of the bin. Single auger trolley is placed on the frame rails from the outboard end and double and triple auger from the inboard end. See Photos 18, 19, and 20.

FOR SINGLE AUGER UNITS: Bolt outboard frame end and track unit assembly to the frame rails using six 3/8" x 1" carriage bolts, 3/8" lock washers and hex nuts.

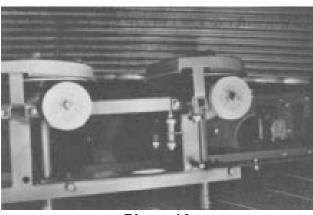


Photo 16

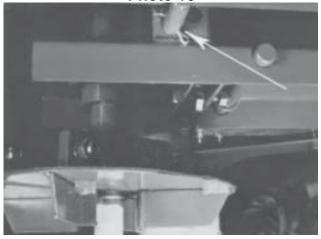


Photo 17



Photo 18



Photo 19

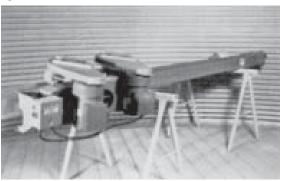


Photo 20



FOR DOUBLE AND TRIPLE AUGER UNITS: Bolt inboard frame end to frame rails using six 3/8" x 1" carriage bolts, 3/8" lock washers and hex nuts.

NOTE: LOCATE BOLT HEADS TO INSIDE OF FRAME RAILS. See Photos 21 and 22.

ROLL THE TROLLEY TO BE SURE ALL WHEELS TURN FREELY.

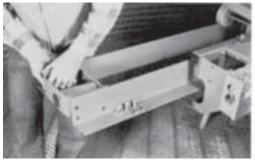




Photo 21

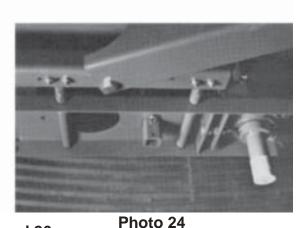
Photo 22

- 13. Place trolley drive arm through the square hole in trolley body pointing toward the center of thebin and secure with two 1/4" x 1-3/4" cotter pins, one above the trolley body and one below. See Photos 23, 24, 25, and 26.
- NOTE: Two hole locations are provided. The upper hole is used on single auger units only, as indicated on the decal. See Photos 23 and 24. For double and triple auger units, use lower hole. See Photos 25 and 26.

Photos 23 and 24 Single Auger Position



Photo 23



Photos 25 and 26
Double and Triple Auger Position



Photo 25



Photo 26

Check that the trolley hold-down rods and wheels are properly positioned. There should be approximately 1/4" between the top of the hold-down rods and the bottom of the frame rails. See Photos 27 and 28.

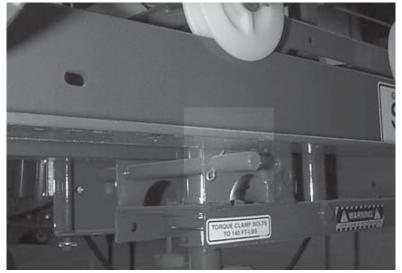




Photo 27

Photo 28

14. The yoke assembly is attached to the frame rails by placing the pivot tube into the center frame support. Secure by placing a 1/4" x 2-1/2" cotter pin through the tube. The end yoke is bolted to the left frame rail with two 3/8" x 1" carriage bolts, lock washers and hex nuts. See Photos 29, 30, 31, and 32.

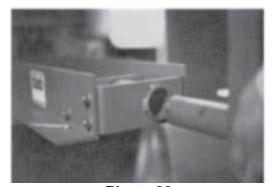


Photo 29



Photo 30



Photo 31

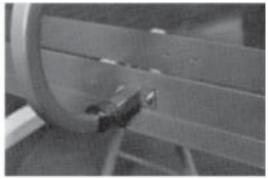


Photo 32

NOTE: BOLT HEADS MUST BE PLACED TO INSIDE OF THE FRAME RAIL or they will interfere with the inside frame rollers. See Photo 32. Remove shipping tape holding wire support swing arm with electrical wire. See Photo 33.

!!CAUTION!! Swing Arm Is Spring Loaded CAUTION: EXTREME CARE MUST BE EXERCISED WHEN CUTTING TAPE LOOSE TO AVOID POSSIBILITY OF PERSONAL OR BODILY INJURY, AS ARM WILL SNAP BACK WHEN FREED.



Photo 33

Bolt trolley wire support rod to top of angle support with two 1/4" x 5/8" hex whiz lock screws and 1/4" hex flanged lock nuts. After removing the screw from the junction box cover, feed electrical wires through the end loop of the wire support and into the junction box. Connect ends to terminal strip and mercury switch using the black wire connector. See Wiring Diagrams pages 22-24 or Drawing D and Photo 38 on page 9.

After making electrical connections REPLACE COVER SCREW. Secure electrical wires to wire support rod using two wire ties. Trim excess. See Photos 34, 35, 36, 37, and 38 or Drawing D.



Photo 34



Photo 35

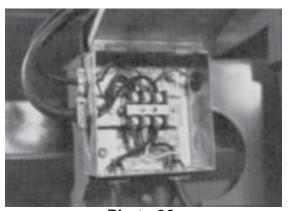


Photo 36

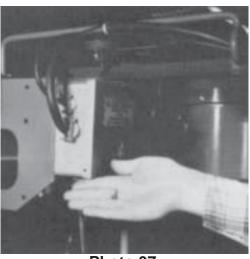
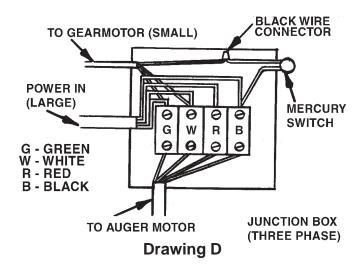


Photo 37



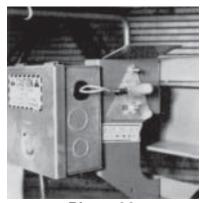


Photo 38
NOTE: IS MERCURY SWITCH
POSITIONED IN CLIP WITH DECAL
IN STATED "UP" POSITION? See
Photo 38.

15. NOTE: 36' and larger units have an additional center support yoke. Attach the top end of the support yoke to the center extension tube using a 1-3/4" spacer tube, one 3/8" x 2-1/2" hex head bolt and hex lock nut. Locate approximately four inches from wire support swing arm toward outboard end side. Place bottom of support yoke onto the frame rail angle flange and fasten with 3/8" x 1" set screw. See Photos 39, 40, 41, 42, and 43.

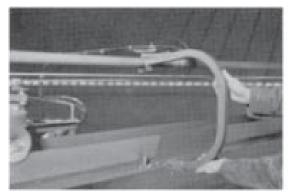


Photo 39



Photo 40

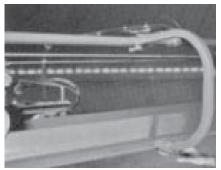


Photo 41

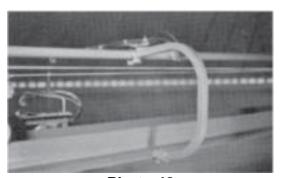
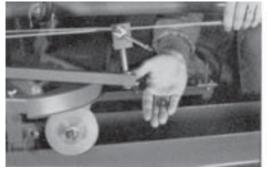


Photo 42

Connect trolley drive arm to cable connector using one 1/2" SAE flat washer and 5/32" x 1" cotter pin. See Photos 43, 44, and 45. BE SURE CABLE CONNECTOR IS AS SHOWN IN PHOTO 43. If assembled incorrectly, connector will not go around cable pulleys.



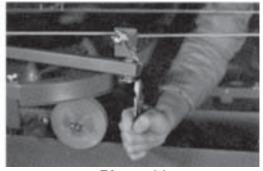


Photo 43

Photo 44

BE SURE THE TROLLEY DRIVE ARM POINTS TO THE CENTER OF THE BIN!!

HAVE YOU INSTALLED THE TROLLEY UNIT ON THE MAIN FRAME IN THE CORRECT OPERATING POSITION?

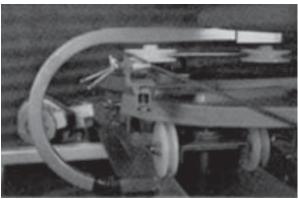


Photo 45

16. The Center Suspension System: Single and double auger units use a single piece square tube. The triple auger units use a two-piece square tube "T" assembly.

FOR SINGLE AND DOUBLE AUGER UNITS: Place the attachment link on single suspension tube into the welded clevis provided on the yoke head. Fasten with one 1/2" x 2" hex head bolt and hex lock nut. See Photo 46 and the drawing on page 15.

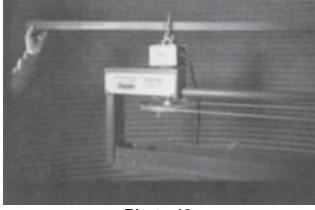


Photo 46

FOR TRIPLE AUGER UNITS: First assemble two-piece "T" square tube sections using one 3/8" x 2-1/2" hex head bolt with lock washer and hex nut. Place the attachment link on the suspension "T" tube into the welded clevis provided on yoke head and fasten with one 1/2" x 2" hex head bolt and hex lock nut. See Photos 47 and 48 and the drawing on page 2.





Photo 47 Photo 48

NOTE: BE SURE SMALL LOOPS ON SUSPENSION TUBE ENDS ARE ALWAYS DOWN.

- 17. Cut lead-in wire loose from yoke pipe, being careful not to damage the wire.
- 18. Unwrap gearmotor wire from yoke tube and strip end. Remove the fuse cover from the junction box. Insert wire through connector and connect wire with fuse holder wires using yellow wire connectors. Replace cover assembly and secure wire to the frame rail with cord clips which push over the frame rail flange. See Photos 49, 50, 51, and 52.



Photo 49



Photo 50

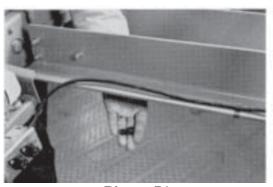


Photo 51

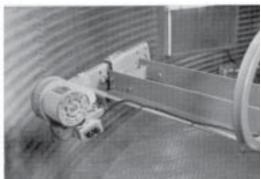


Photo 52

19. Remove plastic cap(s) from lower end of stub shaft(s). Loosen the 1/2" x 2-1/2" bolts on the leveler disk. Slide onto the stub shaft with clamp portion up, hold leveler disk in position by placing snap ring onto stub groove cut into stub shaft. See Photos 54 & 55.



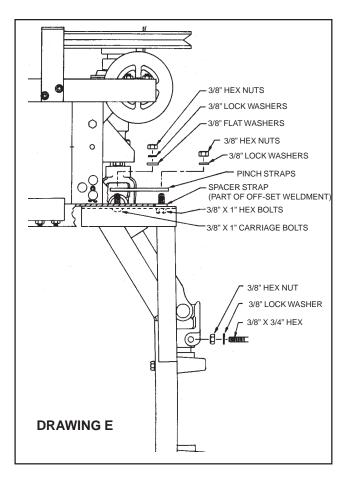
Photo 54



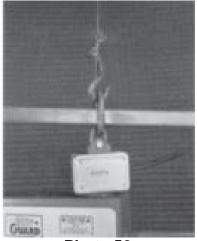
Photo 55

OFFSET AUGER OPTION

- 19A. Put a 1/4" x 1" woodruff key in the stub shaft. Slide the offset assembly underneath the trolley with the U-joint going through the lower bearing hole and onto the stub shaft.
- 19B. Fasten the offset assembly to the lower trolley by bolting the two pinch straps on top of the lower trolley channel with 3/8" x 1" hex bolts on the outside holes, and 3/8" x 1" carriage bolts on the inside holes, as shown in Drawing E. Be sure to add the flat washers over the slotted holes. Slide the assembly in until the spacer strap, welded to the top of the offset, butts the trolley channel. Tighten all of the 3/8" hardware. Tighten the U-joint set screws.
- 19C. Rotate the shaft to assure there is no binding or rubbing. Remove the short shipping shaft and hardware from the offset assembly and discard.



20. The Stir-Ator is ready to be lifted into position. The use of a chain hoist, winch or block and tackle is the best way to accomplish this. At the center, use the center lift hook on top of the suspension tee. See Photo 56.



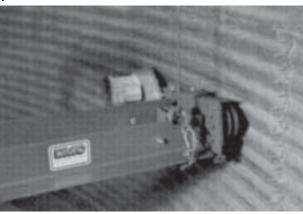


Photo 57

Photo 56

At the bin wall, wrap lifting mechanism around the trolley motor side of the frame rail. See Photo 57.

CAUTION: BE SURE THAT THE LIFTING EQUIPMENT IS CAPABLE OF LIFTING THE UNIT. See Weight Chart on page viii.

Always fasten trolley securely, with vise grips or suitable tool, so that it cannot roll back and forth on the frame rails. Keeping the trolley toward the center of the bin will make lifting the Stir-Ator track unit into place easier. See Photos 58 and 59.



Photo 58



Photo 59

NOTE: Check that shut-off hook end of the suspension tube is located in the proper relation to the shut-off switch box. See Diagram on page 2.

21. When the suspension bar is about 16" above the eave height, the ends of the suspension chains should be placed through loops and around the tube ends and hooked back on the main strand with the "S" hooks. See Photos 60 and 61. Hang the Stir-Ator 1" high in the center for each 18' of bin diameter, with the suspension bar level.





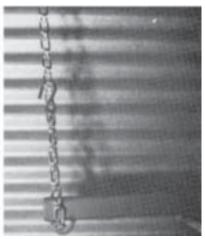


Photo 61

22. Lift the outboard end track unit onto the bin wall track. Install the two track hold-down pins with the pin heads located directly under the lower track edge, secure with two 5/32" x 1" cotter pins. See Photos 62, 63, 64, and 65.



Photo 62



Photo 63

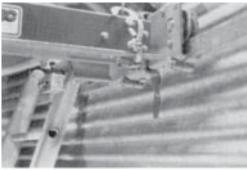


Photo 64

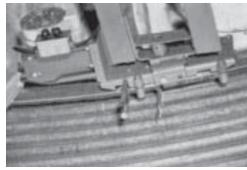
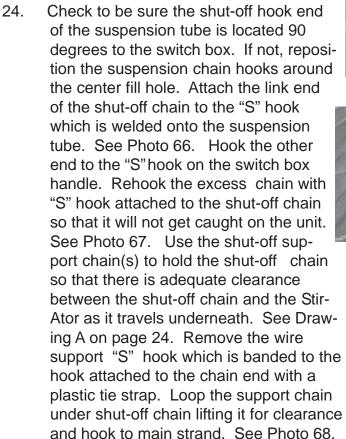


Photo 65



CAUTION: Lock track unit in place on wall with vise-grips, clamps or other means so unit WILL NOT SKID. See Photo 65.

23. The unit should be hung slightly higher at the center than at the bin wall. Standing at a right angle to the frame rails and sighting along them and across to the wall track is an easy way to determine this. When the center height is properly positioned, the frame rails should be 1" higher at the center on an 18' diameter bin; 1-1/2" higher on a 27' diameter bin; and 2" higher on a 36' diameter bin, as an example. Be sure the suspension tube is always positioned level so it will not be hit by any part of the Stir-Ator as it rotates around the bin.



24A. String the lead-in wire through the chain link clevis on the bottom of the suspension bar toward the bar with the safety chain "S" hook. (Do not attach the wire to the end of the suspensionbar.) The lead-in wire can then be suspended above the safety chain and routed to the switch box. See Drawing B on page 25.

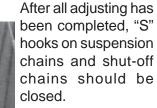


Photo 66



Photo 67

Hook wire support "S" hook to support chain. Approximately 12" above shut-off chain. See Photo 68.



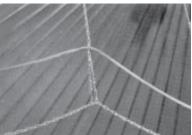
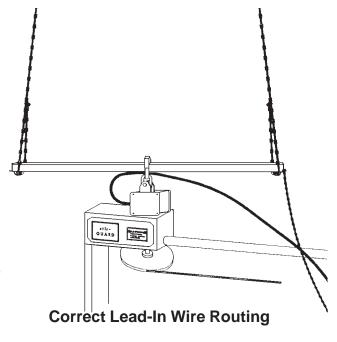


Photo 68





CAUTION: THE LEAD-IN WIRE FROM STIR-ATOR TO THE SWITCH BOX MUST BE LONGER AND LOOSER THAN THE SHUT-OFF CHAIN ITSELF. ISHOULD THE STIR-ATOR MALFUNCTION AND ENGAGE THE SHUT-OFF, ITHIS PREVENTS THE LEAD-IN WIRE FROM BEING TORN FROM THE ISWITCH BOX WHICH COULD RESULT IN SERIOUS ELECTRICAL SHOCK.



| CAUTION: OPERATING THE STIR-ATOR WITHOUT SHUT-OFF CHAIN | PROPERLY ASSEMBLED AND INSTALLED COULD RESULT IN SERIOUS | ELECTRICAL SHOCK OR BODILY INJURY AND WOULD VOID YOUR | WARRANTY.

See pages 21 and 25 for proper installation and clearance of shut-off chain & Stir-Ator.

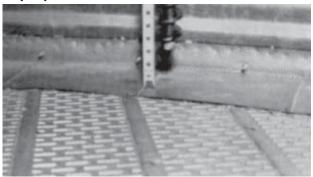


Photo 69
Installing Stir-Ator Augers

25. Install Stir-Ator augers by standing them up against the trolley to measure for length. When measuring the auger length, be sure the trolley is close to the bin wall. If the unit has been correctly installed the measurement between the drying floor and the Stir-Ator will be shortest at the wall. See next page for cutting instructions.

The Stir-Ator augers should clear the drying floor by 3 inches. See Photo 69.

The overall size and dimension chart can be useful for cutting the Stir-Ator auger to the proper length. See Drawing A on page 21.

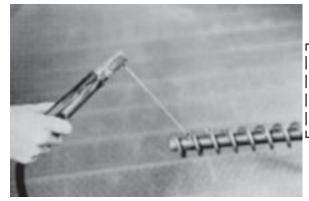
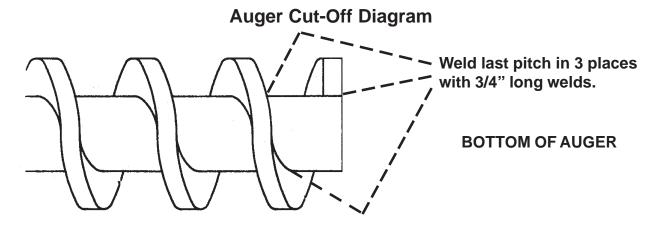


Photo 70

Note: DMC has a One-Season warranty on its down augers up to 22 feet long.

DMC offers NO WARRANTY
on 24 ft. long down augers.



NOTE: WHEN SHORTENING A DOWN AUGER, CUT FROM THE BOTTOM AND BE SURE THE FLIGHTING IS REWELDED PROPERLY. CUTTING THE AUGER FROM THE TOP WILL VOID THE WARRANTY.

25A. Cutting Augers: Stir-Ator down augers are manufactured to allow them to be cut to the required length by cutting from the **bottom end instead of the top**. All augers have flighting to within eight inches from the top, and hard-surfaced augers will have all but the top pitch of flighting hard surfaced.

Installation Procedures For These Augers

- 1. Determine the required length of auger to maintain three inches of clearance between the bottom of the auger and the floor.
- 2. Lay the auger down and mark where the auger will be cut off. Weld the flighting to the shaft in three places within the first pitch just above this mark before cutting off the bottom part of the auger. See Photo 70.

NOTE: DO NOT, FOR ANY REASON, WELD FLIGHTING AT THE TOP OF THE AUGER TO THE SHAFT. TO DO SO VOIDS WARRANTY. THE FLIGHTING AND SHAFT MUST REMAIN UNWELDED TO MINIMIZE DISTORTION AND WEAKENING OF THE SHAFT.

25B. **Offset Trolley Auger Installation**: Remove 1" bearings from lower offset trolley body. Cut auger to proper length of three inches off the floor. File notch on upper end of auger shaft. Next, place bearings and lock collars onto auger shaft. Then, bolt bearings back onto the trolley body. Slide the auger into the U-joint and attach with 3/8" x 1-3/4" hex bolt. See Photo 71.

NOTE: LOCKING COLLARS ON BEARINGS SHOULD ALWAYS BE TIGHTENED THE SAME DIRECTION AS SHAFT ROTATES.



Photo 71

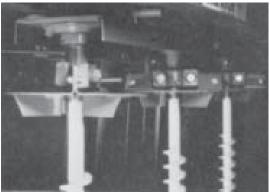


Standard Trolley Installation

26. To assemble the auger to the stub shaft, drill a 5/16" diameter hole about 5/16" deep into the auger shaft, 1-1/2" from the top. (This can be drilled before or after the auger is installed.) See Drawing C on page 19.

Slide the auger into the stub shaft and align the holes in the stub shaft and auger shaft. Place the auger clamp with spring pin over the holes so the spring pin is inserted into the auger. **Evenly torque the clamp bolts to 140 ft. lbs**. See Photo 72 and 73.

To replace the auger, unbolt the auger clamp and remove clamp and spring pin. This will allow the auger to be removed.





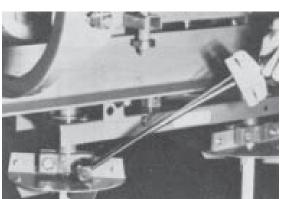


Photo 73

27. **NOTE:** Move trolley from extreme outboard end of the main frame to the inboard end and back, to be sure there is no trolley interference and that there is sufficient electric cord allowed from the support swing arm to reach both ends.

28. A professional electrician should be employed to bring the power line to the Stir-Ator. The bin must be grounded and all wiring done in accordance with local and national codes to avoid bodily injury or even death.



Underside of Manhole Cover

A

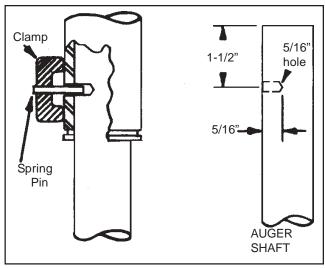
!!CAUTION!! DO NOT OPERATE STIR-ATOR IN AN EMPTY BIN.

TO TEST IF POWERED, MAKE SURE NO ONE IS INSIDE BIN, THEN TURN POWER "ON" AND "OFF" **IMMEDIATELY** FROM OUTSIDE OF BIN. DO NOT LET IT RUN IN AN EMPTY BIN. TAKE TIME FOR PROPER INSTALLATION.

29. Place Caution Decals as Shown.



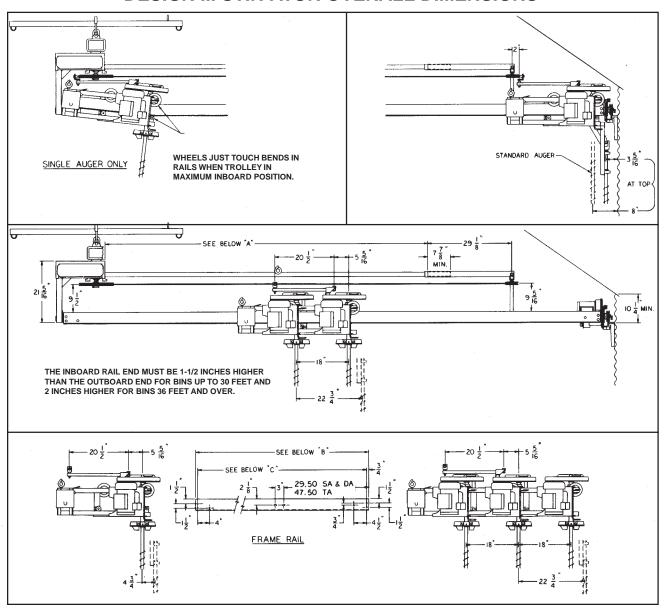
Inside of the Walk-In Door



DRAWING C

Parts List DIII Stir-Ator

DESIGN III STIR-ATOR OVERALL DIMENSIONS



BIN DIA.	DIMENSION "A" SA/DA	DIMENSION "A" TA	DIMENSION "B" DA & TA ONLY	DIMENSION "C" SA - DA - TA		BIN DIA,	DIMENSION "A" SA/DA	DIMENSION "A" TA	DIMENSION "B" DA & TA ONLY	DIMENSION "C" SA - DA - TA
*14'	16-1/8	NA	NA	89		27'	94-1/8	76-1/8	168-1/2	167
*15'	22-1/8	NA	NA	95	Y/////	27'10"	99-1/8	81-1/8	173-1/2	172
**18'	40-1/8	NA	114-1/2	113		28'	100-1/8	82-1/8	174-1/2	173
**18'7"	43-5/8	NA	118	116-1/2	V/////	28'3"	101-5/8	83-5/8	176	174-1/
2					*/////					
21'	58-1/8	40-1/8	132-1/2	131	V////	30'	112-1/8	94-1/8	186-1/2	185
21'7"	61-5/8	43-5/8	136	134-1/2	<i>\/////</i>	31'	118-1/8	100-1/8	192-1/2	191
22'	64-1/8	46-1/8	138-1/2	137	<i>*/////</i>	33'	130-1/8	112-1/8	204-1/2	203
22'9"	68-5/8	50-5/8	143	141-1/2	V/////	36'	148-1/8	130-1/8	222-1/2	221
24'	76-1/8	58-1/8	150-1/2	149	Y/////	36'3"	149-5/8	131-5/8	224	222-1/
2					<i>\\\\\\</i>		1		·	
24'3"	77-5/8	59-5/8	152	150-1/2	<i>V/////</i>	39'	166-1/8	148-1/8	240-1/2	239
24'8"	80-1/8	62-1/8	154-1/2	153	Y/////	40'	172-1/8	154-1/8	246-1/2	245

^{*14&#}x27; & 15' BIN DIAMETER AVAILABLE ON SA ONLY

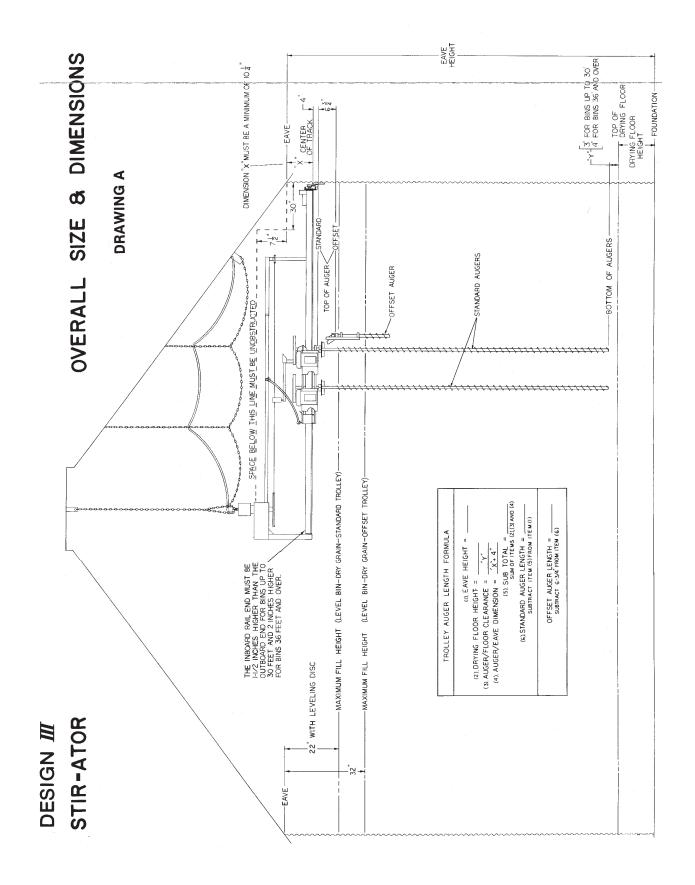
^{** 18&#}x27; & 18'7" BIN DIAMETER AVAILABLE ON SA & DA ONLY

^{1.} SA frame ralls are 4" x 2" x 1/4"

DA frame rails up to 36 ft. are 4" x 3" x 1/4"
 DA frame rails 36 ft. to 48 ft. are 5" x 3" x 5/16"

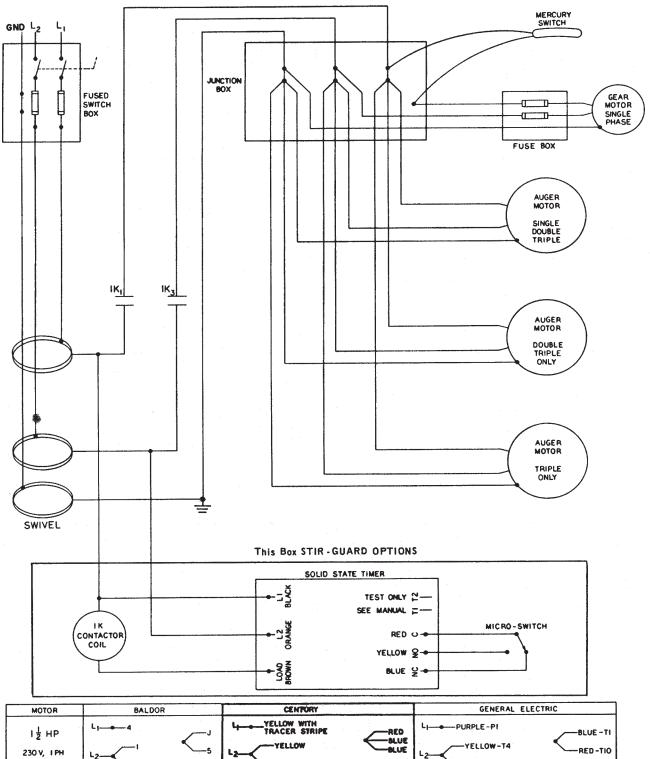
^{4.} TA frame ralls are 5" x 3" x 5/16"

DIII Stir-Ator Parts List

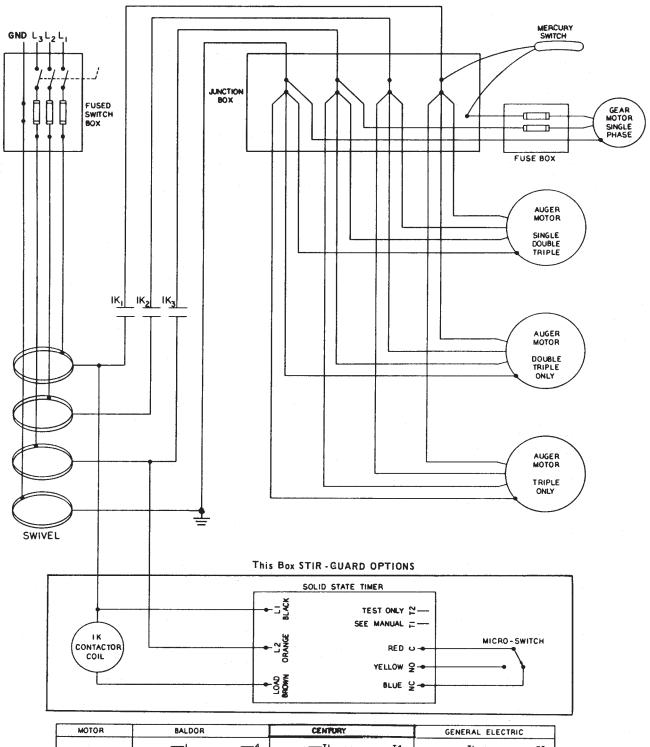


Parts List DIII Stir-Ator

DIII STIR-ATOR WIRING DIAGRAM - SINGLE PHASE - 230 V. - 60 HZ

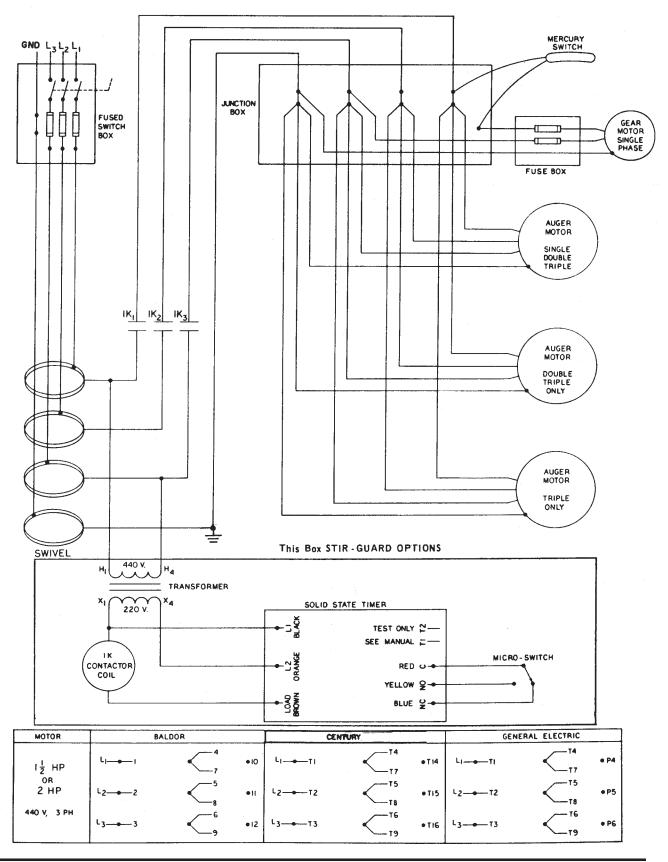


DIII STIR-ATOR WIRING DIAGRAM - THREE PHASE - 230 V. - 60 HZ



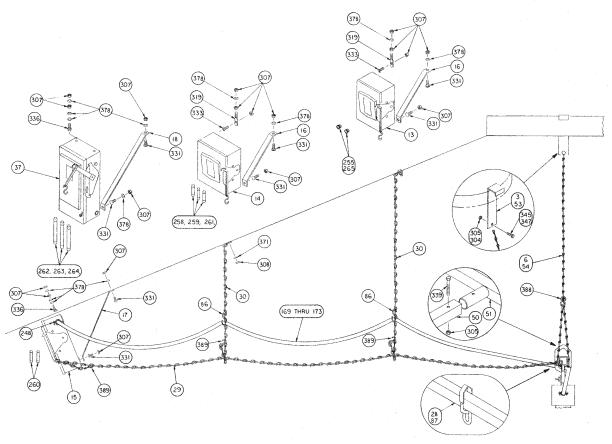
MOTOR	OTOR BALDOR		CENTURY		GENERAL ELECTRIC		
1 1/2 HP OR 2 HP 230 V, 3 PH.	L ₁ ————————————————————————————————————	5 11	T1 T7 T2 T8 T3 T9	T14 T15 T15 T16	L ₁ ————————————————————————————————————	75 P5 T4 P4 T6	

DIII STIR-ATOR WIRING DIAGRAM - THREE PHASE - 440 V. - 60 HZ

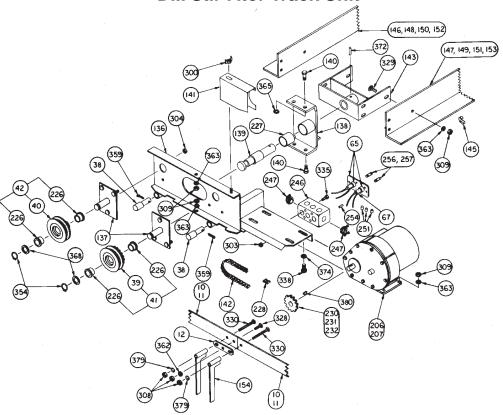


DIII Stir-Ator Parts List

DIII Stir-Ator Switchboxes and Suspension - Drawing B

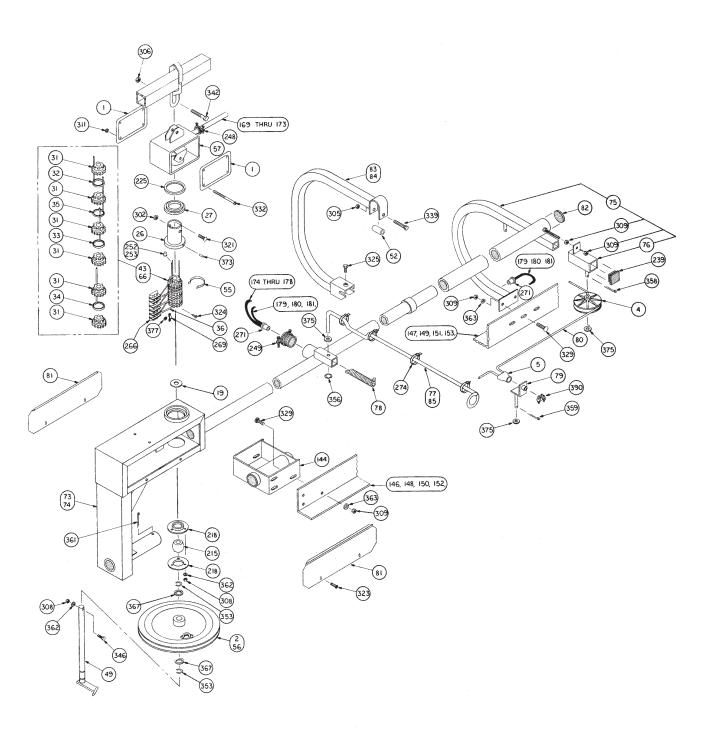


DIII Stir-Ator Track Unit

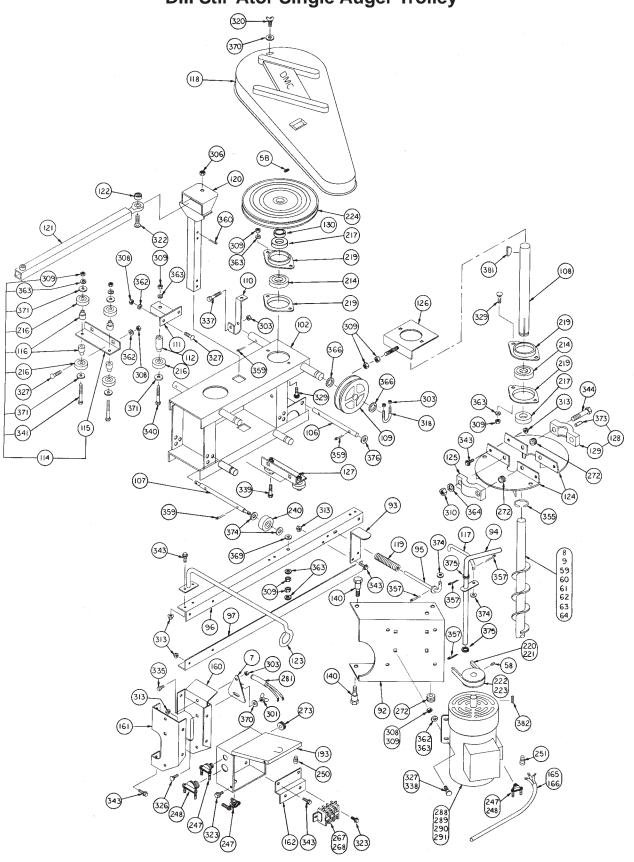


Parts List DIII Stir-Ator

DIII Stir-Ator Yoke

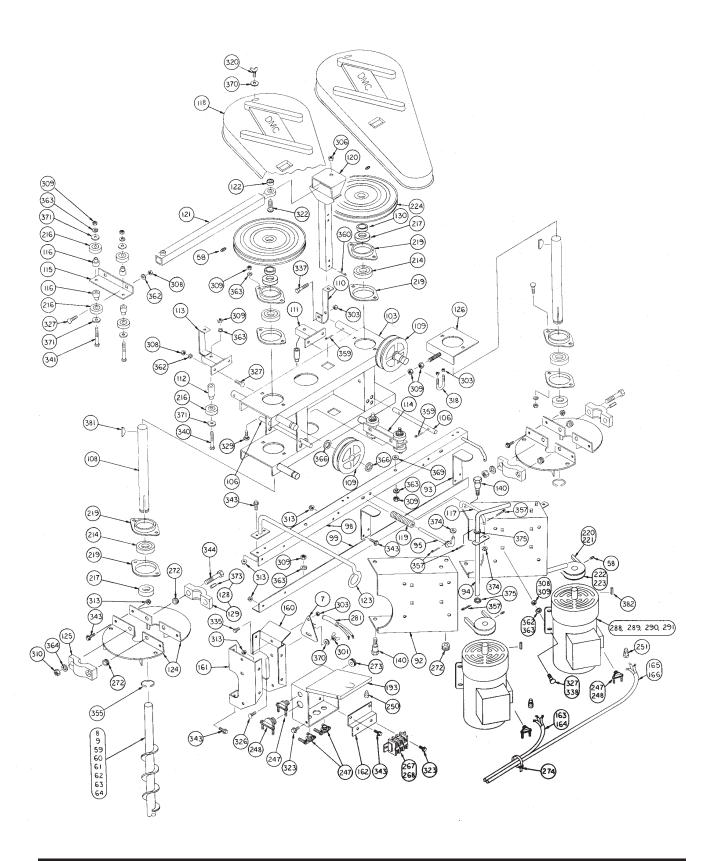


DIII Stir-Ator Single Auger Trolley

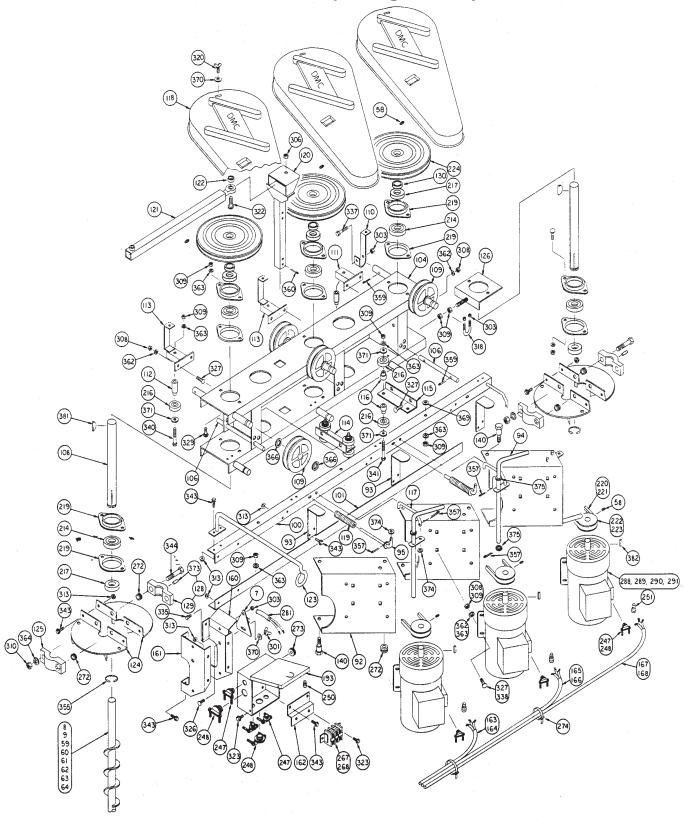


Parts List DIII Stir-Ator

DIII Stir-Ator Double Auger Trolley







DIII Stir-Ator

REF.			DOUBLE AUGER		DESCRIPTION
1.	103A0003	2	2	2	Junction box cover
2.	103A0049	1	1	0	12" pulley with drive link
3.	106A076	2	2	0	Suspension hook (Single-double)
4.	103A0069		2	2 1	End yoke idler
5. 6.	106A074 103A0094	. 1 2	1 2	2	Cable tube Suspension Chain (Single-Double))
٠.	-vJA0034	2	4	ے	(Specify bin diameter)
7.	103B0012	1	1	1	Mercury switch holder brkt.
8.	103B0015		2	3	16 ft. plain auger
9.	103B0016		2	3	16 ft. hardsurfaced auger
10.	106C074	0	0	A/R	Bin wall track (12-5/8" spacing) (Triple) (Specify bin diameter)
11.	106C073	A/R	A/R	0	Bin wall track (19" spacing) (Single-Double)(Specify bin diameter)
12.	103C0038	A/R	A/R	A/R	Track connector (Specify bin bin diameter)
13.	103E0004	1	1	0	Switch box, 30 Amp, Single Phase, 230 Volt
14.	103E0006	1	1	1	Switch box, 30 Amp, Three Phase, 230 Volt
15.	106E083	0	0	1	Switch box, 60 Amp, Single Phase, 230 Volt
16.	103E0009	1	1	1	Switch box brace, 12" length (Use w/103E0004 & 103E0006)
18.	103E0011	1	1	1	Switch box brace, 17-3/4" length (use w/104E0026 & 106E083)
19.	103E0012	1	1	1	Insulating washer, 1/16"
26.	104A0014		1	1	Center pivot flanged bushing
27. 28.	104A0015 104A0021		1	1 0	Center pivot thrust bearing Center suspension cross bar
29.	104A0039	1	1	1	(Single-Double) Safety shut-off chain (Specify
30.	104A0040	A/R	A/R	A/R	bin diameter) Shut-off chain support (Specify bin diameter)
31.	104E0001	6	6	6	Electric swivel insulating block
32.	104E0007	1	1	1	Ring and wire (White)
33.	104E0010		1	1	Ring and wire (Black)
34.	104E0012		1	1	Ring and wire (Green)
35.	104E0015		1	1	Ring and wire (Red, 3 phase only)
36.	104E0020	3	3	3	Electrical swivel contact strap Single phase
		4	4	4	Three phase
37.	104E0026		i	1	Switch box, 30 Amp, Three
	404-4		_	_	phase, 440 Volt
38.	104C2018		2	2	Track hold down roller
39. 40.	104C2026 104C2027		1 1	1 1	Drive wheel with sprocket Track wheel
41.	104C2027		1	1	Drive wheel with sprocket and
	_0102037		-	-	bushings assembly
42. 43.	104C2038 104E2005		1 1	1 1	Track wheel with bushings assy Electric swivel assy, 230 Volt, Three phase
49. 50.	105A0030 105A0051		1	1 1	Center drive arm and shaft
51.	105A0051	-	0	1	Center suspension tee bar (Triple) Center suspension cross bar
52.	105A0052		1	1	tube (Triple) Support yoke spacer tube (36'
53.	106A077	0	0	3	diameter bin and larger only) Suspension hook (Triple)
54. 55.	106A077 106A075 105A0097	Ō	0	3	Center suspension chain (Triple)) Swivel spring clip
		3 .	3	3	Single phase
		4	4	4	Three phase
56.	105A0101	0	0	1	14" pulley with drive link (Triple)
57.	105A0105	1	1	1	Center pivot junction box
58.	105B0076		2	3	Set screw with adhesive, 5/16" x 3/8"



Design III Stir-Ator Parts List

REF.	PART NUMBER		DOUBLE AUGER	TRIPLE AUGER	DESCRIPTION
59. 60. 61. 62. 63. 64.	105B0079 105B0080 105B0081 105B0083 105B0084 105B0096 105B0096 105B0096	1 1 2 1 3 1 4 1 5 1 3 1 7 1	2 2 2 2 2 2 2 2 2 2	3 3 3 3 3 3 3 3 3	18 ft. regular auger 20 ft. regular auger 21 ft. regular auger 18 ft. hard surfaced auger 20 ft. hard surfaced auger 21 ft. hard surfaced auger 22 ft. regular auger 24 ft. regular auger 25 ft. hard surfaced auger
65. 66.	105B0099 105E0003 105E0004	3 1	2 1 1	3 1 1	24 ft. hard surfaced auger Cover and fuseholder assembly Electric swivel assy, 230 Volt, Single phase
67.	105E0021	. 2	2	2	Fuseholder
73.	106A014	1	1	0	Yoke (Single-Double)(Specify bin diameter)
74. 75.	106A015 106A040	0 1	0 1	1 1	Yoke (Triple)(Specify bin dia.) End yoke
76. 77.	106A042 106A048	1	1	1 1	Cable adjustment Yoke wire support (39' diameter bin and under only)
78. 79. 80. 81. 82.	106A049 106A050 106A051 106A052 106A056 106A059	1 1 2 1	1 1 2 1	1 1 2 1 0	Yoke wire support spring Cable connector Cable, 3/16"(Specify bin dia.) Swivel box cover Neoprene sponge plug Center yoke support (Single- Double) (36' dia. bin and
84.	106A060	0	0	1	larger only) Center yoke support (Triple)
85.	106A064	1	1	1	(36' dia. bin and larger only) Yoke wire support (39'1" dia. bin and larger only)
86. 87.	106A068 106A070	A/R 1	A/R 0	A/R 0	"S" hook (Special) Center suspension cross bar (14' thru 15')(Single)
92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 106. 107. 108. 109. 111.	106B044 106B045 106B046 106B051 106B052 106B053 106B054 106B055 106B056 106B065 106B067 106B087 106B081 106B083 106B088 106B088	1 1 1 1 1 1 0 0 0 0 0 1 0 0 1 1 1 1 1 0 0 0 1 1 1 0 0	2 2 2 2 0 0 0 1 1 0 0 0 1 0 2 0 2 4 1	3 3 3 0 0 0 0 0 1 1 0 0 0 1 2 0 1 0 0 1	Motor mount plate Shield Support Bracket Motor tension removal rod Motor spring guide rod Upper angle bracket (Single) Lower angle bracket (Single) Upper angle bracket (Double) Lower angle bracket (Double) Upper angle bracket (Triple) Lower angle bracket (Triple) Trolley body (Single) Trolley body (Single) Trolley body (Triple) Hold down rod Hold down rod (Single only) Trolley stub shaft Trolley wheel Axle shield support bracket Upper roller support bracket 36' dia. bin and larger (Single-Double) 27'1" dia. bin and larger (Triple)
113.	106B093	0	1	2	Roller and shield support brkt. (Double-Triple)
114.	106B095	1	2	0	Roller support bracket assembly 36' dia. bin and larger
		0	0	2	(Single-Double) 27'1" Dia. bin and larger (Triple)

DMG

No. NUMBER AUGER AUGER AUGER AUGER Company	REF.	PART	SINGLE	DOUBLE	TRIPLE	
16. 1068097	NO.	NUMBER	AUGER	AUGER	AUGER	DESCRIPTION
116. 1068097	115.	106B096				
116. 1068097			2	2	0	
Short roller stand-off			0	0	2	
17. 1068098 1 2 3 Trolley belt shield 19. 19	116	1060007				
17. 1068098 1 2 3 Tension removal link 118. 1068099 1 2 3 Trolley bett shield 119. 1068100 1 2 3 Trolley bett shield 120. 1068102 1 1 1 Drive arm post 121. 1068103 1 1 1 Drive arm post 122. 1068110 1 1 1 Stand-off bushing 123. 1068111 1 1 Trolley wire support 124. 1068115 2 4 6 Leveling disc (Not used on off-set trolley) 125. 1068118 1 2 3 Auger clamp 126. 1068121 1 1 1 Trolley wire support bracket assembly 36 dia. bin and larger (Single) 128. 1068124 1 2 3 Auger clamp with spring plate (Not used on off-set trolley) 36 dia. bin and larger (Single) 129. 1068125 1 2 3 Auger clamp with spring plin hole 130. 1068198 1 2 3 Auger clamp with spring plin hole 131. 1066015 1 1 Track unit main frame 131. 1066016 1 1 Track unit main frame 131. 1066017 1 Track unit clevis 131. 1066015 1 1 Track unit clevis 131. 1066015 1 1 Track unit shield 142. 1066035 1 1 Track unit shield 142. 1066037 1 1 Track unit roller chain 144. 1066048 1 0 0 Right frame rail (Single) 14' to 48' (Specify bin diameter) 145. 106605 0 1 0 Right frame rail (Single) 14' to 48' (Specify bin diameter) 147. 1066016 0 1 0 Right frame rail (Triple) 21' to 36' (Specify bin diameter) 152. 1066061 0 1 0 Right frame rail (Triple) 21' to 36' (Specify bin diameter) 153. 1066062 0 1 0 Right frame rail (Triple) 21' to 36' (Specify bin diameter) 154. 1066063 A/R A/R A/R Track bracket 8-1/2" 166. 1068016 1 1 Trolley motor wire 14/4 SO (Single-Double-Triple) Single phase 166. 1068016 1 1 Trolley motor wire 14/4 SO (Single-Double-Triple) Hase 167. 1068017 0 0 Trolley motor wire 14/4 SO (Single-Double-Triple) Three phase 167. 1068017 0 0 Trolley motor wire 14/4 SO (Single-Double-Triple) 167. 1068017 0 0 Trolley motor wire 14/4 SO (Single-Double-Triple) 167. 1068017 0 0 Trolley m	110.	1000097	6	8	0	
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111. 1068099			, 0	Ü	8	3
119. 1068100					3	Tension removal link
120. 1068102					3	
122. 1068110				1	1	Drive arm post
124. 1068115 1						
125. 106B118 1 2 3 3 3 3 3 2 3 3 3						
125. 106B118 1 2 3 Auger clamp 126. 106B121 1 1 1 1 1 1 1 1 1	124.	106B115	2	4	6	
(Not used on off-set trolley) 127. 106B123	125.	106B118	1	2	3	
127. 106B123 1			1			
128. 106B124 1 2 3 Auger clamp with spring pin assembly 129. 106B125 1 2 3 Auger clamp with spring pin assembly 129. 106B128 1 2 3 Auger clamp with spring pin hole 130. 106B198 1 2 3 10" pulley spacer 136. 106C016 1 1 1 Track unit main frame 137. 106C017 2 2 2 Track wheel mounting bracket 138. 106C025 1 1 1 Track unit clevis 139. 106C025 1 1 1 Track unit clevis 141. 106C035 4 6 8 Shoulder bolt, 3/8" x 1-1/4" 141. 106C035 4 6 8 Shoulder bolt, 3/8" x 1-1/4" 141. 106C036 1 1 1 Track unit shield 142. 106C037 1 1 Track unit roller chain 143. 106C038 1 1 1 1 1 1 1 1 1	127.	106B123	1 -	0	0	
130. 106B198 1	127.	1002133				36' dia. bin and larger (Single)
130. 106B198 1 2 3 10" pulley spacer 136. 106C016 1 1 1 1 Track unit main frame 137. 106C017 2 2 2 Track wheel mounting bracket 138. 106C025 1 1 1 Track unit clevis 139. 106C029 1 1 1 Pivot pin 140. 106C035 4 6 8 Shoulder bolt, 3/8" x 1-1/4" 141. 106C036 1 1 1 Track unit shield 142. 106C037 1 1 Track unit shield 143. 106C038 1 1 Track unit roller chain 144. 106C042 1 1 Track unit shield 145. 106C046 2 2 Cord clip 146. 106C048 1 0 Right frame rail (Single) 14' to 48' (Specify bin diameter) 147. 106C049 1 0 Right frame rail (Single) 14' to 48' (Specify bin diameter) 148. 106C056 0 1 Deft frame rail (Double) 18' to 36' (Specify bin diameter) 149. 106C056 0 1 Right frame rail (Triple) 21' to 36' (Specify bin diameter) 150. 106C058 0 0 1 Right frame rail (Triple) 21' to 36' (Specify bin diameter) 151. 106C059 0 0 1 Left frame rail (Triple) 21' to 36' (Specify bin diameter) 152. 106C061 0 1 Right frame rail (Triple) 36' to 48' 153. 106C062 0 1 Left frame rail (Triple) 36' to 48' 154. 106C063 A/R A/R A/R Track bracket 8-1/2" 160. 106E008 1 1 0 Right frame rail (Double-Triple) 36' to 48' 154. 106C063 A/R A/R A/R Track bracket 8-1/2" 160. 106E015 1 1 1 Track unit main frame 10						
136. 106C016 1						
137. 106C017 2 2 2 1 Track wheel mounting bracket 138. 106C025 1 1 1 Track unit clevis 139. 106C029 1 1 1 1 Pivot pin 140. 106C035 4 6 8 Shoulder bolt, 3/8" x 1-1/4" 141. 106C036 1 1 1 Track unit shield 142. 106C037 1 1 1 Track unit roller chain 143. 106C038 1 1 1 Outboard frame end 144. 106C042 1 1 1 Inboard frame end 145. 106C046 2 2 2 Cord clip 146. 106C048 1 0 Right frame rail (Single) 14' to 48' (Specify bin diameter) 147. 106C049 1 0 Left frame rail (Single) 14' to 48' (Specify bin diameter) 148. 106C055 0 1 0 Right frame rail (Double) 18' to 36' (Specify bin diameter) 149. 106C056 0 1 0 Left frame rail (Triple) 18' to 36' (Specify bin diameter) 151. 106C059 0 0 1 Left frame rail (Triple) 21' to 36' (Specify bin diameter) 152. 106C061 0 1 Right frame rail 153. 106C062 0 1 Left frame rail 154. 106C063 A/R A/R A/R Track bracket 8-1/2" 160. 106E008 1 1 ORIGH frame rail 161. 106E010 1 1 Triple obx mounting bracket 162. 106E012 1 1 Triple motor wire 14/3 SO (Double-Triple) Single phase 164. 106E015 1 1 Trolley motor wire 14/4 SO (Single-Double-Triple) 165. 106E015 1 1 Trolley motor wire 14/4 SO (Single-Double-Triple) 167. 106E017 0 0 Trolley motor wire 14/4 SO (Single-Double-Triple) Three phase 167. 106E017 0 Trolley motor wire 14/4 SO Trolley motor wire 14/4 SO (Single-Double-Triple) Three phase 167. 106E017 0 Trolley motor wire 14/4 SO Trolley motor wire 14/4 SO (Single-Double-Triple) Three phase						
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140. 106C035 4 6 8 Shoulder bolt, 3/8" x 1-1/4" 141. 106C036 1 1 1 1 Track unit shield 142. 106C037 1 1 1 Track unit roller chain 143. 106C038 1 1 1 Outboard frame end 144. 106C042 1 1 1 Inboard frame end 145. 106C046 2 2 2 Cord clip 146. 106C048 1 0 0 Right frame rail (Single) 14' 147. 106C049 1 0 0 Left frame rail (Single) 14' 148. 106C055 0 1 0 Right frame rail (Double) 18' 149. 106C056 0 1 0 Left frame rail (Double) 18' 150. 106C058 0 0 1 Right frame rail (Triple) 21' 151. 106C059 0 0 1 Left frame rail (Triple) 21' 152. 106C061 0 1 Right frame rail (Triple) 21' 153. 106C062 0 1 Left frame rail (Triple) 36' (Specify bin diameter) 154. 106C063 A/R A/R A/R A/R Track bracket 8-1/2" 160. 106E018 1 1 0 Right junction box mounting bracket 161. 106E010 1 1 Terminal block mounting bracket 162. 106E013 0 1 Toolley motor wire 14/4 SO (Single-Double-Triple) Three phase 164. 106E015 1 1 Toolley motor wire 14/4 SO (Single-Double-Triple) 167. 106E017 0 0 Trolley motor wire 14/4 SO (Single-Double-Triple) Three phase Trolley motor wire 14/4 SO (Single-Double-Triple) Three phase Trolley motor wire 14/4 SO (Single-Double-Triple) Three phase						
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142. 106C037 1 1 1 1 Outboard frame end 143. 106C038 1 1 1 1 Inboard frame end 144. 106C042 1 1 1 Inboard frame end 145. 106C046 2 2 2 2 Cord clip 146. 106C048 1 0 0 Right frame rail (Single) 14'						
143. 106C038 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
145. 106C046 2 2 2 Cord clip 146. 106C048 1 0 0 Right frame rail (Single) 14' to 48' (Specify bin diameter) 147. 106C049 1 0 Left frame rail (Single) 14' to 48' (Specify bin diameter) 148. 106C055 0 1 0 Right frame rail (Double) 18' to 36' (Specify bin diameter) 149. 106C056 0 1 0 Left frame rail (Double) 18' to 36' (Specify bin diameter) 150. 106C058 0 0 1 Right frame rail (Triple) 21' to 36' (Specify bin diameter) 151. 106C059 0 0 1 Left frame rail (Triple) 21' to 36' (Specify bin diameter) 152. 106C061 0 1 Right frame rail (Triple) 21' to 36' (Specify bin diameter) 153. 106C062 0 1 Right frame rail (Triple) 36' to 48' 154. 106C063 A/R A/R A/R Track bracket 8-1/2" 160. 106E008 1 1 0 Right junction box mounting bracket 161. 106E010 1 1 1 Left junction box mounting bracket 162. 106E012 1 1 Terminal block mounting bracket 163. 106E013 0 1 Trolley motor wire 14/3 SO (Double-Triple) Single phase 164. 106E014 0 1 1 Trolley motor wire 14/4 SO (Single-Double-Triple) 165. 106E015 1 1 1 Trolley motor wire 14/4 SO (Single-Double-Triple) Single phase 167. 106E017 0 0 1 Trolley motor wire 14/4 SO Three phase 167. 106E017 0 0 1 Trolley motor wire 14/3 SO				1	1	Outboard frame end
146. 106C048 1 0 0 Right frame rail (Single) 14' to 48' (Specify bin diameter) 147. 106C049 1 0 0 Left frame rail (Single) 14' to 48' (Specify bin diameter) 148. 106C055 0 1 0 Right frame rail (Double) 18' to 36' (Specify bin diameter) 149. 106C056 0 1 0 Left frame rail (Double) 18' to 36' (Specify bin diameter) 150. 106C058 0 0 1 Right frame rail (Triple) 21' to 36' (Specify bin diameter) 151. 106C059 0 0 1 Left frame rail (Triple) 21' to 36' (Specify bin diameter) 152. 106C061 0 1 Right frame rail (Double-Triple) 36' to 48' 153. 106C062 0 1 Left frame rail (Double-Triple) 36' to 48' 154. 106C063 A/R A/R A/R Track bracket 8-1/2" 160. 106E008 1 1 0 Right junction box mounting bracket 161. 106E010 1 1 Left junction box mounting bracket 162. 106E012 1 1 Terminal block mounting bracket 163. 106E013 0 1 Trolley motor wire 14/4 SO (Double-Triple) Single phase 164. 106E014 0 1 1 Trolley motor wire 14/4 SO (Single-Double-Triple) 165. 106E015 1 1 1 Trolley motor wire 14/4 SO (Single-Double-Triple) Three phase 167. 106E017 0 0 1 Trolley motor wire 14/4 SO Three phase Trolley motor wire 14/4 SO Three phase Trolley motor wire 14/3 SO						
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147. 106C049 1 0 0 Left frame rail (Single) 14' to 48' (Specify bin diameter) 148. 106C055 0 1 0 Right frame rail (Double) 18' to 36' (Specify bin diameter) 149. 106C056 0 1 0 Left frame rail (Double) 18' to 36' (Specify bin diameter) 150. 106C058 0 0 1 Right frame rail (Triple) 21' to 36' (Specify bin diameter) 151. 106C059 0 0 1 Left frame rail (Triple) 21' to 36' (Specify bin diameter) 152. 106C061 0 1 Right frame rail (Triple) 21' to 36' (Specify bin diameter) 153. 106C062 0 1 Right frame rail (Double-Triple) 36' to 48' 154. 106C063 A/R A/R A/R Track bracket 8-1/2" 160. 106E008 1 1 0 Right junction box mounting bracket 161. 106E010 1 1 1 Left junction box mounting bracket 162. 106E012 1 1 Terminal block mounting bracket 163. 106E013 0 1 Trolley motor wire 14/3 SO (Double-Triple) Single phase 164. 106E014 0 1 Trolley motor wire 14/4 SO (Double-Triple) Three phase 165. 106E015 1 1 1 Trolley motor wire 14/4 SO (Single-Double-Triple) Single phase 166. 106E016 1 1 1 Trolley motor wire 14/4 SO (Single-Double-Triple) Three phase 167. 106E017 0 0 1 Trolley motor wire 14/4 SO	146.	106C048	1	0	0	
148. 106C055 0 1 0 Right frame rail (Double) 18' to 36' (Specify bin diameter) 149. 106C056 0 1 0 Left frame rail (Double) 18' to 36' (Specify bin diameter) 150. 106C058 0 0 1 Right frame rail (Triple) 21' to 36' (Specify bin diameter) 151. 106C059 0 0 1 Left frame rail (Triple) 21' to 36' (Specify bin diameter) 152. 106C061 0 1 1 Right frame rail (Double-Triple) 36' to 48' 153. 106C062 0 1 1 Left frame rail (Double-Triple) 36' to 48' 154. 106C063 A/R A/R A/R Track bracket 8-1/2" 160. 106E008 1 1 0 Right junction box mounting bracket 161. 106E010 1 1 1 Left junction box mounting bracket 162. 106E012 1 1 1 Terminal block mounting bracket 163. 106E013 0 1 Trolley motor wire 14/3 SO (Double-Triple) Single phase 164. 106E014 0 1 1 Trolley motor wire 14/4 SO (Double-Triple) Three phase 165. 106E015 1 1 1 Trolley motor wire 14/3 SO (Single-Double-Triple) Single phase 166. 106E016 1 1 1 Trolley motor wire 14/4 SO (Single-Double-Triple) Three phase 167. 106E017 0 0 1 Trolley motor wire 14/3 SO	147.	106C049	1	0	0	
to 36' (Specify bin diameter) 149. 106C056 0 1 0 Left frame rail (Double) 18' to 36' (Specify bin diameter) 150. 106C058 0 0 1 Right frame rail (Triple) 21' to 36' (Specify bin diameter) 151. 106C059 0 0 1 Left frame rail (Triple) 21' to 36' (Specify bin diameter) 152. 106C061 0 1 1 Right frame rail (Double-Triple) 36' to 48' 153. 106C062 0 1 1 Left frame rail (Double-Triple) 36' to 48' 154. 106C063 A/R A/R A/R Track bracket 8-1/2" 160. 106E008 1 1 0 Right junction box mounting bracket 161. 106E010 1 1 Left junction box mounting bracket 162. 106E012 1 1 Terminal block mounting bracket 163. 106E013 0 1 Trolley motor wire 14/3 SO (Double-Triple) Single phase 164. 106E014 0 1 Trolley motor wire 14/4 SO (Double-Triple) Three phase 165. 106E015 1 1 1 Trolley motor wire 14/3 SO (Single-Double-Triple) Single phase 166. 106E016 1 1 1 Trolley motor wire 14/4 SO (Single-Double-Triple) Three phase 167. 106E017 0 0 1 Trolley motor wire 14/3 SO	140	1000055	0	1	0	
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150. 106C058 0 0 1 Right frame rail (Triple) 21' to 36' (Specify bin diameter) 151. 106C059 0 0 1 Left frame rail (Triple) 21' to 36' (Specify bin diameter) 152. 106C061 0 1 1 Right frame rail (Double-Triple) 36' to 48' 153. 106C062 0 1 1 Left frame rail (Double-Triple) 36' to 48' 154. 106C063 A/R A/R A/R Track bracket 8-1/2" 160. 106E008 1 1 0 Right junction box mounting bracket 161. 106E010 1 1 1 Left junction box mounting bracket 162. 106E012 1 1 1 Terminal block mounting bracket 163. 106E013 0 1 Trolley motor wire 14/3 SO (Double-Triple) Single phase 164. 106E014 0 1 Trolley motor wire 14/4 SO (Double-Triple) Three phase 165. 106E015 1 1 1 Trolley motor wire 14/3 SO (Single-Double-Triple) Single phase 166. 106E016 1 1 1 Trolley motor wire 14/4 SO (Single-Double-Triple) Three phase 167. 106E017 0 0 1 Trolley motor wire 14/3 SO	149.	106C056	0 .	1	0	Left frame rail (Double) 18'
to 36' (Specify bin diameter) 151. 106C059 0 0 1 Left frame rail (Triple) 21' to 36' (Specify bin diameter) 152. 106C061 0 1 1 Right frame rail (Double-Triple) 36' to 48' 153. 106C062 0 1 1 Left frame rail (Double-Triple) 36' to 48' 154. 106C063 A/R A/R A/R Track bracket 8-1/2" 160. 106E008 1 1 0 Right junction box mounting bracket 161. 106E010 1 1 Left junction box mounting bracket 162. 106E012 1 1 Terminal block mounting bracket 163. 106E013 0 1 Trolley motor wire 14/3 SO (Double-Triple) Single phase 164. 106E014 0 1 Trolley motor wire 14/4 SO (Double-Triple) Three phase 165. 106E015 1 1 Trolley motor wire 14/3 SO (Single-Double-Triple) Single phase 166. 106E016 1 1 Trolley motor wire 14/4 SO (Single-Double-Triple) Three phase 167. 106E017 0 0 1 Trolley motor wire 14/3 SO	150	1060058	0	0	1	Right frame rail (Triple) 21'
to 36' (Specify bin diameter) 152. 106C061 0 1 1 Right frame rail		1000030				to 36' (Specify bin diameter)
152. 106C061 0 1 1 Right frame rail (Double-Triple) 36' to 48' 153. 106C062 0 1 1 Left frame rail (Double-Triple) 36' to 48' 154. 106C063 A/R A/R A/R Track bracket 8-1/2" 160. 106E008 1 1 0 Right junction box mounting bracket 161. 106E010 1 1 1 Left junction box mounting bracket 162. 106E012 1 1 1 Terminal block mounting bracket 163. 106E013 0 1 Trolley motor wire 14/3 SO (Double-Triple) Single phase 164. 106E014 0 1 Trolley motor wire 14/4 SO (Double-Triple) Three phase 165. 106E015 1 1 1 Trolley motor wire 14/3 SO (Single-Double-Triple) Single phase 166. 106E016 1 1 1 Trolley motor wire 14/4 SO (Single-Double-Triple) Three phase 167. 106E017 0 0 1 Trolley motor wire 14/3 SO	151.	106C059	0	0	1	Left frame rail (Triple) 21'
153. 106C062 0 1 1 Left frame rail	152.	106C061	0	1	1	Right frame rail
(Double-Triple) 36' to 48' 154. 106C063 A/R A/R A/R Track bracket 8-1/2" 160. 106E008 1 1 0 Right junction box mounting bracket 161. 106E010 1 1 1 Left junction box mounting bracket 162. 106E012 1 1 1 Terminal block mounting bracket 163. 106E013 0 1 1 Trolley motor wire 14/3 SO (Double-Triple) Single phase 164. 106E014 0 1 1 Trolley motor wire 14/4 SO (Double-Triple) Three phase 165. 106E015 1 1 1 Trolley motor wire 14/3 SO (Single-Double-Triple) Single phase 166. 106E016 1 1 1 Trolley motor wire 14/4 SO (Single-Double-Triple) Three phase 167. 106E017 0 0 1 Trolley motor wire 14/3 SO	152	1060063	0	1	1	
154. 106C063 A/R A/R A/R Track bracket 8-1/2" 160. 106E008 1 1 0 Right junction box mounting bracket 161. 106E010 1 1 1 Left junction box mounting bracket 162. 106E012 1 1 1 Terminal block mounting bracket 163. 106E013 0 1 1 Trolley motor wire 14/3 SO (Double-Triple) Single phase 164. 106E014 0 1 1 Trolley motor wire 14/4 SO (Double-Triple) Three phase 165. 106E015 1 1 1 Trolley motor wire 14/3 SO (Single-Double-Triple) Single phase 166. 106E016 1 1 1 Trolley motor wire 14/4 SO (Single-Double-Triple) Three phase 167. 106E017 0 0 1 Trolley motor wire 14/3 SO	133.	1000002	. 0	1	1	
161. 106E010 1 1 1 Left junction box mounting bracket 162. 106E012 1 1 1 Terminal block mounting bracket 163. 106E013 0 1 Trolley motor wire 14/3 SO	154.	106C063	A/R	A/R	A/R	
161. 106E010 1 1 1 Left junction box mounting bracket 162. 106E012 1 1 1 Terminal block mounting bracket 163. 106E013 0 1 Trolley motor wire 14/3 SO	160.	106E008	1	1	0	Right junction box mounting bracket
163. 106E013 0 1 1 Trolley motor wire 14/3 SO (Double-Triple) Single phase 164. 106E014 0 1 1 Trolley motor wire 14/4 SO (Double-Triple) Three phase 165. 106E015 1 1 1 Trolley motor wire 14/3 SO (Single-Double-Triple) Single phase 166. 106E016 1 1 1 Trolley motor wire 14/4 SO (Single-Double-Triple) Three phase 167. 106E017 0 0 1 Trolley motor wire 14/3 SO	161.	106E010	1	1	1	
(Double-Triple) Single phase 164. 106E014 0 1 1 Trolley motor wire 14/4 SO						
164. 106E014 0 1 1 Trolley motor wire 14/4 SO	103.	1005013		1	1	
165. 106E015 1 1 1 Trolley motor wire 14/3 SO (Single-Double-Triple) Single phase 166. 106E016 1 1 1 Trolley motor wire 14/4 SO (Single-Double-Triple) Three phase 167. 106E017 0 0 1 Trolley motor wire 14/3 SO	164.	106E014	0	1	1	Trolley motor wire 14/4 SO
(Single-Double-Triple) Single phase 166. 106E016 1 1 1 Trolley motor wire 14/4 SO (Single-Double-Triple) Three phase 167. 106E017 0 0 1 Trolley motor wire 14/3 SO	165.	106E015	1	1	1	
166. 106E016 1 1 1 Trolley motor wire 14/4 SO (Single-Double-Triple) Three phase 167. 106E017 0 0 1 Trolley motor wire 14/3 SO			=	=	=	(Single-Double-Triple)
(Single-Double-Triple) Three phase 167. 106E017 0 0 1 Trolley motor wire 14/3 SO	166	1068016	1	1	1	
Three phase 167. 106E017 0 0 1 Trolley motor wire 14/3 SO		1000010	*	<u>.</u>	_	
2	167	1065017	0	0	1	
	10/.	TOODOT1	U	V	Τ.	

REF.	PART NUMBER	SINGLE AUGER	DOUBLE AUGER	TRIPL AUGER	
168.	106E018	0	0	1	Trolley motor wire 14/4 SO
169	106E019				(Triple) Three phase Switch box to swivel wire 12/3 SO
105.	1000013				(Specify bin diameter)
		1	1 0	1 0	230 Volt, Single phase 1-1/2HP
170.	106E020		0 .	U	230 Volt, Single phase 2 HP Switch box to swivel wire 14/4 SO
		1	1	0	(Specify bin diameter)
		1 1	0	0	230 Volt, Three phase 1-1/2HP 230 Volt, Three phase 2 HP
		1 1	1	1 1	440 Volt, Three phase 1-1/2HP
171.	106E021		U	1	440 Volt, Three phase 2 HP Switch box to swivel wire 10/3 SO
		0	1	0	(Specify bin diameter)
172.	106E022	U	_	U	230 Volt, Single phase 2 HP Switch box to swivel wire 10/4 SO
		0	0	1	(Specify bin diameter)
		0	0 1	1 1	230 Volt, Three phase 1-1/2HP 230 Volt, Three phase 2 HP
4.77	1065000	0	1	0	440 Volt, Three phase 2 HP
1/3.	106E023				Switch box to swivel wire 8/3, SO (Specify bin diameter)
		0	0 -	1	230 Volt, Single phase
174.	106E024				1-1/2 and 2 HP Yoke wire 12/3(Specify bin dia) SO
		1	1	0	230 Volt, Single phase 1-1/2HP
175.	106E025	1	0	0	230 Volt, Single phase 2HP Yoke wire 14/4(Specify bin dia) SO
		1	1	0	230 Volt, Three phase 1-1/2HP
		1 1	0 1	0	230 Volt, Three phase 2 HP 440 Volt, Three phase 1-1/2HP
		1	0	1	440 Volt, Three Phase 2 HP
176.	106E026	0	1	0	Yoke wire 10/3(Specify bin dia) SO 230 Volt, Single Phase 2 HP
177.	106E027	-			Yoke wire 10/4(Specify bin dia) SO
		0 0	0 1	1 1	230 Volt, Three phase 1-1/2HP 230 Volt, Three phase 2 HP
170	106000	0	1	0	440 Volt, Three phase 2 HP
1/8.	106E028				Yoke wire 8/3, SO (Specify bin diameter)
*		0	0	1	230 Volt, Single phase
179.	106E029				1-1/2 and 2 HP Gear motor wire 18/3 SJ
		1	1	0	(Specify bin diameter)
		1	. 4	U	230 Volt, Single phase, 1-1/2 and 2 HP
		0	0	0	230 Volt, Three phase, 1-1/2 and 2 HP
180.	106E030				Gear motor wire 16/3 SJ
		0	^		(Specify bin diameter)
		0	0	1	230 Volt, Single phase 1-1/2 and 2 HP
181.	106E031				Gear motor wire 18/3 SO
		1	1	1	(Specify bin diameter) 230 Volt, Three phase
		1	1	1	1-1/2 and 2 HP
		1	1	1	440 Volt, Three phase 1-1/2 and 2 HP
193.	106E060	1	1	1	Electrical box, 6" x 6" x 3"
	502A0044	1	1	1	E-3442 Gear motor (440 Volt)
207.	502A0040	1	1	1	E-3101 Gear motor (230 Volt)
214.	PT0222	2	4	6	Precision bearing, 1-3/8" with eccentric locking collar
	PT0235 PT0377	1 7	1 10	1	Ball bushing, 7/8" Radial ball bearing, 17mm (36'
	PT0408	2	4	6	diameter bin and larger only)
	PT0408 PT0421	2	2	2	Eccentric locking collar,1-3/8" 3 hole stamped flange housing
219.	PT0428	4	8	12	2 hole stamped flangette
	PT0489 PT0532	1 1	2	3 3	AX-48 V-belt (1-1/2 HP only) B-50 V-belt (2 HP only)
	PT0621	1	2	3	Pulley, $3-1/4$ " OD x $7/8$ ", 1 GR,
					B sec., 2 HP, w/set screw (105B0076)
	× .				



Design III Stir-Ator

REF. PART SINGLE DOUBLE TRIPLE NO. NOMER AUGER DESCRIPTION				200		List
223. PT0625 2 3						DESCRIPTION.
A sec., 1-1/2 MP, w/set screw (105B0076)	_NO	NUMBER	AUGER	AUGER	AUGER	DESCRIPTION
224. PT0670 1 2 3 Pulley W/set screw, 10* OD x 1-37.8* bore, B sec. 1-37.8* bore, Dx 1* ID x 37.4* bore, STD - under 36 ft. Roller chain sprocket, #40-107 w/3/4* bore; STD - under 36 ft. Roller chain sprocket, #40-127 w/3/4* bore; offset - under 36 ft. Roller chain sprocket, #40-127 w/3/4* bore; offset - 36 ft. & over Roller chain sprocket, #40-127 w/3/4* bore; offset - 36 ft. & over Roller chain sprocket, #40-127 w/3/4* bore; offset - 36 ft. & over Roller chain sprocket, #40-127 w/3/4* bore; offset - 36 ft. & over Roller chain sprocket, #40-127 w/3/4* bore; offset - 36 ft. & over Roller chain sprocket, #40-127 w/3/4* bore; offset - 36 ft. & over Roller chain sprocket, #40-127 w/3/4* bore; offset - 36 ft. & over Roller chain sprocket, #40-127 w/3/4* bore; offset - 36 ft. & over Roller chain sprocket, #40-127 w/3/4* bore; offset - 36 ft. & over Roller chain sprocket, #40-127 w/3/4* bore; offset - 36 ft. & over Roller chain sprocket, #40-127 w/3/4* bore; offset - 36 ft. & over Roller chain sprocket, #40-127 w/3/4* bore; offset - 36 ft. & over Roller chain sprocket, #40-127 w/3/4* bore; offset - 36 ft. & over Roller chain sprocket, #40-127 w/3/4* bore; offset - 36 ft. & over Roller chain sprocket, #40-127 w/3/4* bore; offset - 36 ft. & over Roller chain sprocket, #40-127 w/3/4* bore; offset - 36 ft. & over Roller chain sprocket, #40-127 w/3/4* bore; offset - 36 ft. & over Roller chain sprocket, #40-127 w/3/4* bore; offset - 36 ft. & over Roller chain sprocket, #40-127 w/3/4* bore; offset - 36 ft. & over Roller chain sprocket, #40-127 w/3/4* bore; offset - 36 ft. & over Roller chain sprocket, #40-127 w/3/4* bore; offset - 36 ft. & over Roller chain sprocket, #40-127 w/3/4* bore; offset - 36 ft. & over Roller chain sprocket, #40-127 w/3/4* bore; offset - 36 ft. & over	223.	PT0625	1	2	3	A sec., 1-1/2 HP, w/set screw
225. PT0808 1 1 1 Single lip seal, 3*OD x 2-1/4*ID 226. PT088 1 1 1 Flanged bronze bushing, 1-1/4* OD x 1* ID x 3/4* 227. PT0888 1 1 1 Case bronze bushing, 1-3/4*OD x 1-1D x 3/4* 228. PT1048 1 1 1 Case bronze bushing, 1-3/4*OD x 1-1D x 3/4* 228. PT1048 1 1 1 Case bronze bushing, 1-3/4*OD x 1-1D x 3/4* 230. PT1098 1 1 1 1 Roller chain sprocket, #40-10T w/3/4* bore; offset - under 36 ft. Roller chain sprocket, #40-12T w/3/4* bore; offset - under 36 ft. Roller chain sprocket, #40-12T w/3/4* bore; offset - 36 ft. & over 239. MS0058 1 1 1 Plastic plug, 1-1/4* square 240. MS0070 2 0 0 Rubber wheel, 2* x 13/16* (Single only) 246. 1EL0367 1 1 1 Outlet box, 4* x 2-1/8* x 2-1/8* cord connector, 3/8* 249. HEL0403 4 5 7 Cord connector, 3/8* 249. HEL0405 1 1 1 Cord connector, 3/4* 249. HEL0405 1 1 1 Cord connector, 1-1/4* 250. 1EL0555 A/R A/R A/R N/R N/R Twist lock wire connector (Red) 251. 1EL0555 3 1 1 Twist lock wire connector (Red) 252. 1EL0561 2 2 2 Butt splice wire connector (Red) 253. 1EL0557 3 3 3 3 Single phase 4 4 4 Three phase 254. 1EL0561 2 2 2 Butt splice wire connector (Gray) 255. 1EL0726 2 2 2 Butt splice wire connector (Fuse) 256. 1EL0727 2 2 2 2 Butt splice wire connector Fuse-30 Amp, Plug type 259. 1EL0730 0 0 3 Fuse-10 Amp cartridge (230 Volt, single phase, 1-1/2 and 2 HP 260. 1EL0734 0 0 2 Fuse-10 Amp, 250 Volt cartridge 261. 1EL0737 3 0 0 Fuse-30 Amp, 250 Volt cartridge 262. 1EL0737 3 0 Fuse-50 Amp, 250 Volt cartridge 263. 1EL0738 0 3 0 Fuse-30 Amp, Plug type 264. 1EL0738 0 3 0 Fuse-30 Amp, 250 Volt cartridge 265. 1EL0744 2 0 Fuse-30 Amp, 250 Volt cartridge 266. 1EL085 1 1 1 This cand a HP 267. 1EL085 1 1 1 This cand a HP 268. 1EL088 1 1 1 This cand a HP 268. 1EL088 1 1 1 This cand a HP 269. 1EL085 1 1 1 This cand a HP 260. 1EL085 1 1 1 This cand a HP 261. 1EL0740 0 3 3 Fuse-30 Amp, Plug type, 230 Volt 262. 1EL0740 0 3 3 Fuse-30 Amp, Plug type, 230 Volt 263. 1EL0740 0 3 3 Fuse-30 Amp, Plug type, 230 Volt 264. 1EL0740 0 7 3 Fuse-30 Amp, Plug type, 230 Volt 265. 1EL0740 0	224.	PT0670	1	2	3	Pulley w/set screw, 10 " OD x
OD x 1° ID x 3/4° Case bronze bushing, 1-3/4° long 228. PT1048 1 1 1 1 Roller chain sprocket, \$40-107 231. PT1099 1 1 1 Roller chain sprocket, \$40-107 232. PT1101 1 1 1 1 Roller chain sprocket, \$40-127 234. PT1101 1 1 1 1 Roller chain sprocket, \$40-127 235. PT1101 1 1 1 1 Roller chain sprocket, \$40-127 236. PT1101 1 1 1 1 Roller chain sprocket, \$40-127 237. PT1101 1 1 1 1 Roller chain sprocket, \$40-127 238. PT1101 1 1 1 1 Roller chain sprocket, \$40-127 239. MS0058 1 1 1 Plastic plug, 1-1/4° square 240. MS0070 2 0 0 Rubber wheel, 2° x 13/16° (Single only) 246. 1EL0367 1 1 1 Cord connector, 3/8° 248. 1EL0403 4 5 7 Cord connector, 3/8° 248. 1EL0405 1 1 1 Cord connector, 3/8° 249. 1EL0405 1 1 1 Cord connector, 3/8° 251. 1EL0555 A/R A/R A/R Nord Prist lock wire connector (Slack) 252. 1EL0556						Single lip seal, 3 "OD x 2-1/4"ID
227, PT0888 1 1 1 1 Case bronze bushing, 1-3/4* OD x 1-1/2* ID x 1-3/8* long 230, PT1098 1 1 1 Roller chain sprocket, #40-10T w/3/4* bore; STD - under 36 ft. 231, PT1099 1 1 1 1 Roller chain sprocket, #40-12T w/3/4* bore; Offset - under 36 ft. 232, PT1101 1 1 1 1 1 Roller chain sprocket, #40-14T w/3/4* bore; offset - under 36 ft. 239, MS0058 1 1 1 Plastic plug, 1-1/4* square 239, MS0058 1 1 1 Plastic plug, 1-1/4* square 240, MS0070 2 0 Rubber wheel, 2* x 13/16* (Single only) 246, 1EL0367 1 1 Outlet box, 4* x 2-1/8* x 2-1/8* Cord connector, 3/8* 248, 1EL0403 4 5 7 Cord connector, 3/4* 249, 1EL0405 1 1 Cord connector, 3/4* 249, 1EL0405 1 1 Cord connector, 3/4* 249, 1EL0405 1 1 Cord connector, 3/4* 250, 1EL0553 1 1 Twist lock wire connector 251, 1EL0555 A/R A/R A/R Witt lock wire connector 252, 1EL0566 Twist lock wire connector (Red) 3 3 3 3 Single phase 4 4 4 Three phase 251, 1EL0726 2 2 2 Butt splice wire connector (Fug) 255, 1EL0727 2 2 2 Pluse-1 Amp cartridge 260, 1EL0730 0 0 3 Pluse-3 Amp, Plug type 261, 1EL0736 3 0 0 Pluse-3 Amp, 250 Volt cartridge 210 Volt, Three phase, 1-1/2 and 2 HP 262, 1EL0737 3 0 Pluse-3 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 263, 1EL0738 0 3 Pluse-3 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 264, 1EL0740 0 0 2 Pluse-50 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 265, 1EL0737 3 0 Pluse-10 Amp, 250 Volt cartridge 240 Volt, Three phase, 1-1/2 and 2 HP 266, 1EL0737 3 0 Pluse-10 Amp, 250 Volt cartridge 240 Volt, Three phase, 1-1/2 and 2 HP 267, 1EL0738 1 1 1 Pluse-10 Amp, 250 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 268, 1EL085 1 1 1 Pluse-10 Amp, 250 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 269, 1EL0730 0 7 Pluse-10 Amp, 250 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 271 and 2 HP 272 and 2 HP 273 and 2 HP 274 and 2 HP 275 and 2 HP 275 and 2 HP 276 and 2 HP 277 and 2 HP 277 and 2 HP 278	226.	PT0883	4	4	4	
228. PT1048 1 1 1 Connector link, #40 231. PT1099 1 1 1 Roller chain sprocket, #40-10T	227.	PT0888	1	1	1	Case bronze bushing, 1-3/4" OD
231. PT1099	228.	PT1048	1	1	1	
231. PT1099 1	230.	PT1098	1	1	1	
232. PT1101 1 1 1 1 Roller chain sprocket, #40-14T	231.	PT1099	1	1	1	Roller chain sprocket. #40-12T w/3/4" bore; offset - under 36 ft.
240. MS0070 2 0 0 Rubber wheel, 2" x 13/16" (Single only) 246. 1EL0367 1 1 1 1 0utlet box, 4" x 2-1/8" x 2-1/8" 247. 1EL0401 6 7 8 Cord connector, 3/8" 248. 1EL0403 1 1 1 Cord connector, 3/4" 250. 1EL0553 1 1 1 Tord connector, 1-1/4" 250. 1EL0555 A/R A/R A/R A/R Twist lock wire connector (Black) 251. 1EL0556	232.	PT1101	1	1	1	Roller chain sprocket, #40-14T
240. MS0070 2 0 0 Rubber wheel, 2" x 13/16" (Single only) 246. 1EL0367 1 1 1 1 0utlet box, 4" x 2-1/8" x 2-1/8" 247. 1EL0401 6 7 8 Cord connector, 3/8" 248. 1EL0403 1 1 1 Cord connector, 3/4" 250. 1EL0553 1 1 1 Tord connector, 1-1/4" 250. 1EL0555 A/R A/R A/R A/R Twist lock wire connector (Black) 251. 1EL0556	239	MS0058	1	1	1	Plastic plug. 1-1/4" square
247. IEL0401 6 7 8 Cord connector, 3/8" 248. IEL0403 4 5 7 Cord connector, 1-1/4" 250. IEL0553 1 1 1 1 Twist lock wire connector 251. IEL0555 A/R A/R A/R Twist lock wire connector 252. IEL0556 Twist lock wire connector 253. IEL0557 Twist lock wire connector 254. IEL0557 Twist lock wire connector 255. IEL0557 Twist lock wire connector 256. IEL0725 Twist lock wire connector 257. IEL0725 Twist lock wire connector 258. IEL0725 Twist lock wire connector 259. IEL0726 2 2 2 Butt splice wire connector 250. IEL0727 2 2 2 Fuse-1 Amp cartridge 250. IEL0727 2 2 2 Fuse-1 Amp cartridge 250. IEL0730 0 0 3 Fuse-30 Amp, Plug type 250. IEL0730 0 0 3 Fuse-30 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 250. IEL0736 3 0 Fuse-50 Amp, 250 Volt cartridge 230 Volt, Single phase, 1-1/2 and 2 HP 250. IEL0737 3 0 Fuse-50 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 250. IEL0737 3 0 Fuse-10 Amp, 250 Volt cartridge 240 Volt, Three phase, 1-1/2 and 2 HP 261. IEL0738 0 3 0 Fuse-10 Amp, 250 Volt cartridge 240 Volt, Three phase, 1-1/2 and 2 HP 263. IEL0738 0 3 0 Fuse-10 Amp, 600 Volt cartridge 240 Volt, Three phase, 1-1/2 and 2 HP 265. IEL0744 2 0 0 Fuse-10 Amp, 600 Volt cartridge 240 Volt, Three phase, 1-1/2 and 2 HP 266. IEL0885 1 1 1 Terminal block - 5 Post - Double row - Single phase 267. IEL0887 1 1 Terminal block - 5 Post - Double row - Three phase 1-10 Imp jump strap						Rubber wheel, 2" x 13/16"
248. 1EL0403	246.	1EL0367	1	1	1	Outlet box,4" x 2-1/8" x 2-1/8"
249. IEL0405 1 1 1 Cord connector, 1-1/4" 250. IEL0553 1 1 1 1 Twist lock wire connector (Black) 251. IEL0555 A/R A/R A/R Twist lock wire connector (Yellow) 252. IEL0556 Twist lock wire connector (Yellow) 3 3 3 3 5 3 3 3 3 Single phase 4 4 4 Twist lock wire connector (Red) 5 3 3 3 3 Twist lock wire connector (Red) 5 3 3 3 3 Twist lock wire connector (Gray) 7 Wist lock wire connector (Gray) 7 Wist lock wire connector (Gray) 8 Single phase Three phase Three phase 254. IEL0561 2 2 2 Butt splice wire connector 7 Fuse-30 Amp, Plug type 256. IEL0726 2 2 Fuse-1 Amp cartridge (440 Volt only) 257. IEL0727 2 2 2 Fuse-1 Amp cartridge (230 Volt, Three phase, 1-1/2 and 2 HP 259. IEL0730 0 0 3 Fuse-30 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 260. IEL0734 0 0 2 Fuse-50 Amp, 250 Volt cartridge 230 Volt, Single phase, 1-1/2 and 2 HP 261. IEL0736 3 0 Fuse-10 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 262. IEL0737 3 0 Fuse-10 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 263. IEL0738 0 3 Fuse-10 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 264. IEL0740 0 0 3 Fuse-15 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 265. IEL0744 2 0 Fuse-15 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 266. IEL0887 1 1 Terminal block - 5 Post - Double row - Single phase 267. IEL0887 1 1 Terminal block - 4 Post - Double row - Three phase 1 Ine jump strap 271. IEL2012 3 3 3 "T" bushing, 1" OD flange x						
250. 1EL0553 1 1 1 1 Twist lock wire connector (Black) 251. 1EL0555 A/R A/R A/R A/R Twist lock wire connector (Yellow) 252. 1EL0556 Twist lock wire connector (Red) 3 3 3 The street of						
Black Twist lock wire connector (Yellow) Twist lock wire connector (Yellow) Twist lock wire connector (Yellow) Twist lock wire connector (Red) Single phase Three phase Twist lock wire connector (Gray) Twist lock wire connector (Gray) Single phase Three phase T						
Yellow Twist lock wire connector (Red) Single phase Three phase	230.		-	_	_	
3 3 3 3				A/R	A/R	(Yellow)
Three phase Twist lock wire connector(Gray) 3	252.	1EL0556		3	3	
Twist lock wire connector(Gray) 3 3 3 Single phase 4 4 4 4 4 4 4 4 4						
254. 1EL0561 2 2 2 Butt splice wire connector Fuse-30 Amp, Plug type 255. 1EL0725 0 2 0 230 Volt, single phase 1-1/2 and 2 HP 256. 1EL0726 2 2 2 Prese-1 Amp cartridge (440 Volt only) 257. 1EL0727 2 2 2 Prese-1.8 Amp cartridge (230 Volt, only) 259. 1EL0730 0 0 3 Fuse-30 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 259. 1EL0734 0 0 2 Fuse-50 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 260. 1EL0734 0 0 Prese-50 Amp, 250 Volt cartridge 230 Volt, Single phase, 1-1/2 and 2 HP 261. 1EL0736 3 0 Prese-50 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 262. 1EL0737 3 0 Prese-10 Amp, 250 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 263. 1EL0738 0 3 0 Fuse-10 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 264. 1EL0740 0 0 Fuse-10 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 265. 1EL0744 2 0 Fuse-15 Amp, Plug type,230 Volt Single phase, 1-1/2 and 2 HP 266. 1EL0885 1 1 Terminal block - 5 Post - Double row - Single phase 267. 1EL0887 1 1 Terminal block - 3 Post - Double row - Single phase 269. 1EL0895 1 1 Line jump strap 271. 1EL2012 3 3 3 "T" bushing, 1" OD flange x	253.	1EL0557			_	
254. 1EL0561 2 2 2 Butt splice wire connector Fuse-30 Amp, Plug type 256. 1EL0726 2 2 2 Fuse-10 Amp cartridge (440 Volt only) 257. 1EL0727 2 2 2 Pruse-1.8 Amp cartridge (230 Volt, Three phase, 1-1/2 and 2 HP 259. 1EL0730 0 0 3 Fuse-30 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 260. 1EL0734 0 0 2 Fuse-50 Amp, 250 Volt cartridge 230 Volt, Single phase, 1-1/2 and 2 HP 261. 1EL0736 3 0 Fuse-10 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 262. 1EL0737 3 0 Fuse-10 Amp, 600 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 263. 1EL0738 0 3 Fuse-10 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 264. 1EL0740 0 0 3 Fuse-10 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 265. 1EL0744 2 0 Fuse-15 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 266. 1EL0885 1 1 Terminal block - 5 Post - Double row - Single phase 269. 1EL0888 1 1 Terminal block - 4 Post - Double row - Three phase 269. 1EL0895 1 1 Line jump strap 271. 1EL2012 3 3 3 "T" bushing, 1" OD flange x						
Fuse-30 Amp, Plug type 230 Volt, single phase 1-1/2 and 2 HP 256. 1EL0726 2 2 2 2 2 2 Fuse-1 Amp cartridge (440 Volt only) 230 Volt, Three phase, 1-1/2 and 2 HP 259. 1EL0730 0 0 3 Fuse-30 Amp, 250 Volt cartridge (230 Volt only) 230 Volt, Three phase, 1-1/2 and 2 HP 260. 1EL0734 0 0 2 Fuse-50 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 261. 1EL0736 3 0 0 Fuse-10 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 262. 1EL0737 3 0 0 Fuse-50 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 263. 1EL0738 0 3 0 Fuse-50 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 264. 1EL0740 0 0 3 Fuse-15 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 265. 1EL0744 2 0 0 Fuse-15 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 266. 1EL0885 1 1 1 Terminal block - 5 Post - Double row 267. 1EL0887 1 1 Terminal block - 3 Post - Double row 268. 1EL0888 1 1 1 Terminal block - 4 Post - Double row - Single phase 269. 1EL0895 1 1 Line jump strap 271. 1EL2012 3 3 "T" bushing, 1" OD flange x	254.	1EL0561				
256. 1EL0726 2 2 2 Fuse-1 Amp cartridge (440 Volt only) 257. 1EL0727 2 2 2 Psuse-1.8 Amp cartridge (230 Volt, Three phase, 1-1/2 and 2 HP 259. 1EL0730 0 0 3 Fuse-30 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 260. 1EL0734 0 0 2 Fuse-50 Amp, 250 Volt cartridge 230 Volt, Single phase, 1-1/2 and 2 HP 261. 1EL0736 3 0 0 Fuse-10 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 262. 1EL0737 3 0 Fuse-10 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 263. 1EL0738 0 3 0 Fuse-5 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 264. 1EL0740 0 0 Fuse-10 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 265. 1EL0744 2 0 Fuse-15 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 266. 1EL0885 1 1 Terminal block - 5 Post - Double row 267. 1EL0887 1 1 Terminal block - 3 Post - Double row - Single phase 269. 1EL0895 1 1 Terminal block - 4 Post - Double row - Three phase 271. 1EL2012 3 3 3 "T" bushing, 1" OD flange x				-	_	
256. 1EL0726 2 2 2 Fuse-1 Amp cartridge (440 Volt only) 257. 1EL0727 2 2 2 Fuse-1.8 Amp cartridge (230 Volt, Three phase, 1-1/2 and 2 HP 259. 1EL0730 0 0 3 Fuse-30 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 260. 1EL0734 0 0 2 Fuse-50 Amp, 250 Volt cartridge 230 Volt, Single phase, 1-1/2 and 2 HP 261. 1EL0736 3 0 0 Fuse-10 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 262. 1EL0737 3 0 Fuse-5 Amp, 600 Volt cartridge 240 Volt, Three phase, 1-1/2 and 2 HP 263. 1EL0738 0 3 0 Fuse-10 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 264. 1EL0740 0 0 3 Fuse-15 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 265. 1EL0744 2 0 Fuse-15 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 266. 1EL0885 1 1 Terminal block - 5 Post - Double row 267. 1EL0887 1 1 Terminal block - 3 Post - Double row - Single phase 269. 1EL0895 1 1 Terminal block - 4 Post - Double row - Three phase 269. 1EL0895 1 1 Line jump strap 271. 1EL2012 3 3 3 "T" bushing, 1" OD flange x			0	2	0	230 Volt, single phase
257. 1EL0727 2 2 2 Fuse-1.8 Amp cartridge (230 Volt only) 230 Volt, Three phase, 1-1/2 and 2 HP 259. 1EL0730 0 0 3 Fuse-30 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 260. 1EL0734 0 0 2 Fuse-50 Amp, 250 Volt cartridge 230 Volt, Single phase, 1-1/2 and 2 HP 261. 1EL0736 3 0 Fuse-10 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 262. 1EL0737 3 0 Fuse-5 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 263. 1EL0738 0 3 Fuse-10 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 264. 1EL0740 0 0 3 Fuse-10 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 265. 1EL0744 2 0 Fuse-15 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 266. 1EL0885 1 1 Terminal block - 5 Post - Double row 267. 1EL0887 1 1 Terminal block - 3 Post - Double row - Single phase 269. 1EL0895 1 1 Terminal block - 4 Post - Double row - Three phase 269. 1EL0895 1 1 Terminal block - 4 Post - Double row - Three phase 271. 1EL2012 3 3 3 "T" bushing, 1" OD flange x	256.	1EL0726	2	2	2	Fuse-1 Amp cartridge
(230 Volt only) 230 Volt, Three phase, 1-1/2 and 2 HP 259. 1EL0730 0 0 3 Fuse-30 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 260. 1EL0734 0 0 2 Fuse-50 Amp, 250 Volt cartridge 230 Volt, Single phase, 1-1/2 and 2 HP 261. 1EL0736 3 0 0 Fuse-10 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 262. 1EL0737 3 0 0 Fuse-10 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 263. 1EL0738 0 3 0 Fuse-10 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 264. 1EL0740 0 0 3 Fuse-15 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 265. 1EL0744 2 0 Fuse-15 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 266. 1EL0885 1 1 Terminal block - 5 Post - Double row 267. 1EL0887 1 1 Terminal block - 3 Post - Double row - Single phase 269. 1EL0895 1 1 Terminal block - 4 Post - Double row - Three phase 269. 1EL0895 1 1 1 Terminal block - 4 Post - Double row - Three phase 271. 1EL2012 3 3 3 "T" bushing, 1" OD flange x			•	_	2	
259. 1EL0730 0 0 3 Fuse-30 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 260. 1EL0734 0 0 2 Fuse-50 Amp, 250 Volt cartridge 230 Volt, Single phase, 1-1/2 and 2 HP 261. 1EL0736 3 0 0 Fuse-10 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 262. 1EL0737 3 0 Fuse-50 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 263. 1EL0738 0 3 0 Fuse-10 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 264. 1EL0740 0 0 3 Fuse-15 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 265. 1EL0744 2 0 Fuse-15 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 266. 1EL0885 1 1 Terminal block - 5 Post - Double row 267. 1EL0887 1 1 Terminal block - 3 Post - Double row - Single phase 268. 1EL0888 1 1 Terminal block - 4 Post - Double row - Three phase 269. 1EL0895 1 1 Terminal block - 4 Post - Double row - Three phase 269. 1EL0895 1 1 Terminal block - 4 Post - Double row - Three phase 271. 1EL2012 3 3 3 "T" bushing, 1" OD flange x	257.	1EL0727	2	2 .	2	(230 Volt only) 230 Volt, Three phase,
1-1/2 and 2 HP Fuse-50 Amp, 250 Volt cartridge 230 Volt, Single phase, 1-1/2 and 2 HP 261. 1EL0736 3 0 Fuse-10 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 262. 1EL0737 3 0 Fuse-5 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 263. 1EL0738 0 3 Fuse-10 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 264. 1EL0740 0 0 Fuse-15 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 265. 1EL0744 2 0 Fuse-15 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 266. 1EL0885 1 1 Terminal block - 5 Post - Double row 267. 1EL0887 1 1 Terminal block - 3 Post - Double row Single phase 268. 1EL0888 1 1 Terminal block - 4 Post - Double row - Three phase 269. 1EL0895 1 1 Line jump strap 271. 1EL2012 3 3 "T" bushing, 1" OD flange x	259.	1EL0730	0	0	3	Fuse-30 Amp, 250 Volt cartridge
230 Volt, Single phase, 1-1/2 and 2 HP 261. 1EL0736 3 0 Fuse-10 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 262. 1EL0737 3 0 0 Fuse-5 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 263. 1EL0738 0 3 0 Fuse-10 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 264. 1EL0740 0 0 3 Fuse-15 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 265. 1EL0744 2 0 0 Fuse-15 Amp, Plug type,230 Volt Single phase, 1-1/2 and 2 HP 266. 1EL0885 1 1 1 Terminal block - 5 Post - Double row 267. 1EL0887 1 1 Terminal block - 3 Post - Double row - Single phase 268. 1EL0888 1 1 Terminal block - 4 Post - Double row - Three phase 269. 1EL0895 1 1 Line jump strap 271. 1EL2012 3 3 3 "T" bushing, 1" OD flange x						1-1/2 and 2 HP
261. 1EL0736 3 0 Fuse-10 Amp, 250 Volt cartridge 230 Volt, Three phase, 1-1/2 and 2 HP 262. 1EL0737 3 0 Fuse-5 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 263. 1EL0738 0 3 Fuse-10 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 264. 1EL0740 0 0 3 Fuse-15 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 265. 1EL0744 2 0 Fuse-15 Amp, Plug type,230 Volt Single phase, 1-1/2 and 2 HP 266. 1EL0885 1 1 Terminal block - 5 Post - Double row 267. 1EL0887 1 1 Terminal block - 3 Post - Double row - Single phase 268. 1EL0888 1 1 Terminal block - 4 Post - Double row - Three phase 269. 1EL0895 1 1 Line jump strap 271. 1EL2012 3 3 3 "T" bushing, 1" OD flange x	260.	1EL0734	0	0	2	230 Volt, Single phase,
230 Volt, Three phase, 1-1/2 and 2 HP 262. 1EL0737 3 0 Fuse-5 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 263. 1EL0738 0 3 0 Fuse-10 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 264. 1EL0740 0 0 3 Fuse-15 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 265. 1EL0744 2 0 0 Fuse-15 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 266. 1EL0885 1 1 1 Terminal block - 5 Post - Double row 267. 1EL0887 1 1 Terminal block - 3 Post - Double row - Single phase 268. 1EL0888 1 1 Terminal block - 4 Post - Double row - Three phase 269. 1EL0895 1 1 Line jump strap 271. 1EL2012 3 3 3 "T" bushing, 1" OD flange x	261.	1EL0736	3	0	0	
262. 1EL0737 3 0 0 Fuse-5 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 263. 1EL0738 0 3 0 Fuse-10 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 264. 1EL0740 0 0 3 Fuse-15 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 265. 1EL0744 2 0 0 Fuse-15 Amp, Plug type,230 Volt Single phase, 1-1/2 and 2 HP 266. 1EL0885 1 1 1 Terminal block - 5 Post - Double row 267. 1EL0887 1 1 Terminal block - 3 Post - Double row - Single phase 268. 1EL0888 1 1 Terminal block - 4 Post - Double row - Three phase 269. 1EL0895 1 1 Line jump strap 271. 1EL2012 3 3 3 "T" bushing, 1" OD flange x						230 Volt, Three phase,
1-1/2 and 2 HP 263. 1EL0738 0 3 0 Fuse-10 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 264. 1EL0740 0 0 3 Fuse-15 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 265. 1EL0744 2 0 0 Fuse-15 Amp, Plug type,230 Volt Single phase, 1-1/2 and 2 HP 266. 1EL0885 1 1 1 Terminal block - 5 Post - Double row 267. 1EL0887 1 1 Terminal block - 3 Post - Double row - Single phase 268. 1EL0888 1 1 Terminal block - 4 Post - Double row - Three phase 269. 1EL0895 1 1 Line jump strap 271. 1EL2012 3 3 3 "T" bushing, 1" OD flange x	262.	1EL0737	3	0	0	Fuse-5 Amp, 600 Volt cartridge
440 Volt, Three phase, 1-1/2 and 2 HP 264. 1EL0740 0 0 3 Fuse-15 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 265. 1EL0744 2 0 0 Fuse-15 Amp, Plug type,230 Volt Single phase, 1-1/2 and 2 HP 266. 1EL0885 1 1 Terminal block - 5 Post - Double row 267. 1EL0887 1 1 Terminal block - 3 Post - Double row - Single phase 268. 1EL0888 1 1 Terminal block - 4 Post - Double row - Three phase 269. 1EL0895 1 1 Line jump strap 271. 1EL2012 3 3 3 "T" bushing, 1" OD flange x						1-1/2 and 2 HP
264. 1EL0740 0 0 3 Fuse-15 Amp, 600 Volt cartridge 440 Volt, Three phase, 1-1/2 and 2 HP 265. 1EL0744 2 0 0 Fuse-15 Amp, Plug type,230 Volt Single phase, 1-1/2 and 2 HP 266. 1EL0885 1 1 1 Terminal block - 5 Post - Double row 267. 1EL0887 1 1 Terminal block - 3 Post - Double row - Single phase 268. 1EL0888 1 1 Terminal block - 4 Post - Double row - Three phase 269. 1EL0895 1 1 Line jump strap 271. 1EL2012 3 3 3 "T" bushing, 1" OD flange x	263.	1EL0738	0	3	0	440 Volt, Three phase,
265. 1EL0744 2 0 0 Fuse-15 Amp, Plug type, 230 Volt Single phase, 1-1/2 and 2 HP 266. 1EL0885 1 1 Terminal block - 5 Post - Double row 267. 1EL0887 1 1 Terminal block - 3 Post - Double row - Single phase 268. 1EL0888 1 1 Terminal block - 4 Post - Double row - Three phase 269. 1EL0895 1 1 Line jump strap 271. 1EL2012 3 3 3 "T" bushing, 1" OD flange x	264.	1EL0740	0	0	3	Fuse-15 Amp, 600 Volt cartridge 440 Volt, Three phase,
266. 1EL0885 1 1 1 Terminal block - 5 Post - Double row 267. 1EL0887 1 1 Terminal block - 3 Post - Double row - Single phase 268. 1EL0888 1 1 Terminal block - 4 Post - Double row - Three phase 269. 1EL0895 1 1 Line jump strap 271. 1EL2012 3 3 3 "T" bushing, 1" OD flange x	265.	1EL0744	2	0	0	Fuse-15 Amp, Plug type, 230 Volt
267. 1EL0887 1 1 1 Terminal block - 3 Post -	266.	1EL0885	1	1	1	Terminal block - 5 Post -
Double row - Single phase 268. 1EL0888	265	1 77 0 0 0 7		3	1	
268. 1EL0888 1 1 1 Terminal block - 4 Post - Double row - Three phase Line jump strap 271. 1EL2012 3 3 3 "T" bushing, 1" OD flange x	20/.	TEP/000/	. 1	7	1	Double row - Single phase
269. 1EL0895 1 1 1 Line jump strap 271. 1EL2012 3 3 3 "T" bushing, 1" OD flange x	268.	1EL0888	3 1	1	1	Terminal block - 4 Post -
	269.	1EL0895	5 1	1	1	Line jump strap
	271.	1EL2012	3	3	3	

REF.			DOUBLE AUGER		DESCRIPTION
272.	1EL2046	3	6	9	Rubber grommet, 1" OD x 9/16"ID x 5/16"(Not used on off-set
273.	1EL2047	1	1	1	trolley) Rubber grommet, 1-1/8" OD x 9/32" ID x 5/16"
	1EL2114 2EL0601	A/R 1	A/R 1	A/R 1	Cable tie, 1-1/4 Mercury switch, 6 degrees (Green Label)
288.	3EL5098	1	2	3	Motor, TEFC, 1-1/2 HP, Single phase, 230 Volt
289.	3EL5100	1	2	3	Motor, TEFC, 1-1/2 HP, Three phase, 220/440 Volt
290.	3E15109	1	2	3	Motor, 2 HP, Three phase, 220/440 Volt
291.	3EL5110	1	2	3	Motor, TEFC, 2 HP, Single phase 115/230 Volt
	1FH0570 1FH0579	1 1	1 1	1 1	Nylon wingnut, 1/4" Wingnut, 1/4"
302.	1FH0728 1FH0734	2 14	2 14	2 16	Hex locknut w/nylon insert,1/2" Hex locknut, 1/4"
304.	1FH0735	6	6	9	Hex locknut, 5/16"
305.	1FH0736	0 1	0 1	1 2	Hex locknut, 3/8" under 36' only 36' bin diameter and larger only
	1FH0738	2 8	2	2 8	Hex locknut, 1/2" Hex nut, 1/4"
308.	1FH0763 1FH0764	A/R	A/R	A/R	Hex nut, 5/16"
310.	1FH0765 1FH0762	A/R 2	A/R 4	A/R 6	Hex nut, 3/8" Hex nut, 1/2", fine thread
	1FH0783 1FH0995	4 14	4 18	4 22	Hex machine screw nut, #10-24 Hex flange whiz locknut, 1/4"
318.	2FH0405	4 2	4	6 2	U-bolt, $1/4$ " x $3/4$ " x $1-1/4$ "
320.	2FH0420 2FH0427	1	2	3	Spade bolt, 1/4" x 2-3/8" Wing thumbscrew, 1/4" x 5/8"
321.	2FH0435	2	2	2	Round head knurled shoulder bolt, 1/2" x 1"
322.	2FH0450	1	1	1	Button head cap screw, 1/2" x 1-3/4"
323.	2FH0475	7	7	7	Slotted hex washer head self tapping screw, #10x1/2", Type F
324.	2FH0478	2	2	2	Slotted hex washer head self tapping screw, #10x1", Type AB
325.	2FH0620	1	1	1	Square head set screw, 3/8" x 1-1/4"(36 diameter bin and larger only)
	2FH0631	1 7 / B	1 1	1 1	Carriage bolt, 1/4" x 3/4"
328.	2FH0645 2FH0646	A/R A/R	A/R A/R	A/R A/R	Carriage bolt, 5/16" x 3/4" Carriage bolt, 5/16" x 1"
	2FH0660 2FH0680	18 A/R	22 A/R	26 A/R	Carriage bolt, 3/8" x 1" Carriage bolt, 5/16" x 3",
	2FH0728	2	2	2	Full thread, Grade 5 Slotted round head machine
332.	2FH0740	4	4	4	screw, 1/4" x 1" Slotted round head machine
333.	2FH0747	2	2	2	screw, #10 x 5" Slotted pan head machine screw,
	2FH0801	3	3	3	1/4" × $1/2$ " Hex bolt, $1/4$ " × $1/2$ "
	2FH0806 2FH0807	2 1	2	2 1	Hex bolt, 1/4" x 1-1/4" Hex bolt, 1/4" x 1-1/2"
338.	2FH0855	4	4	4	Hex bolt, 3/8" x 1" 1-1/2 HP
330	2FH0861	8	12	16	2 HP Hex bolt, 3/8" x 2-1/2"
JJJ.	2110001	0	0	1	Under 36' only
340.	2FH0863	3	1	2	36' dia. bin and larger only Hex bolt, 3/8" x 3"
		1	2	0	<pre>36' dia. bin and larger only (Single-Double)</pre>
		0	0	2	27'1" dia. bin and larger only (Triple)
341.	2FH0867	2	4	0	Hex bolt, 3/8" x 4" 36' dia. bin and larger only
		0	0	4	(Single-Double) 27'1" dia. bin and larger
		<u> </u>	•	-	only (Triple)

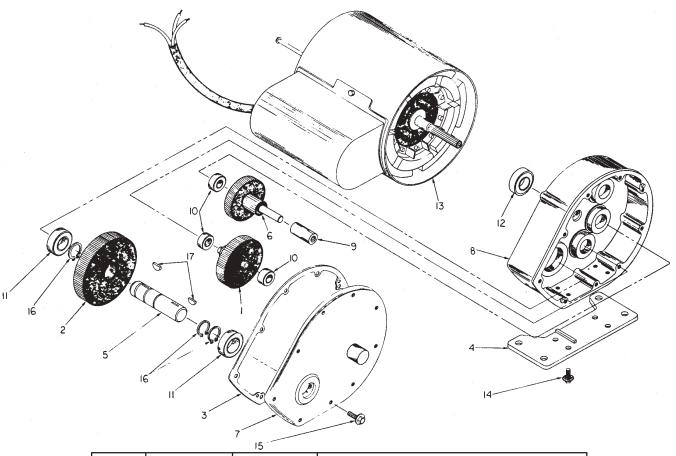


Parts List DIII Stir-Ator

REF.	PART NUMBER		DOUBLE AUGER		DESCRIPTION
2.40	0.00000	1	1	1	Hex bolt, 1/2" x 2"
	2FH0907 2FH0979	$\begin{matrix}1\\14\end{matrix}$	18	22	Hex flange whiz lock screw, 1/4" x 5/8"
344.	2FH0969	2	4	6	<pre>Hex bolt,1/2" x 2-1/2",Grade 5, Fine thread</pre>
345.	2FH0983	0	0	3	Screw - flange whiz lock, $3/8-16$ UNC x 1
346.	2FH1083	1	1	1	Hex bolt, $5/16$ " x $1-3/4$ ", Grade 5
347.	2FH0990	2	2	0	Screw - flange whiz lock, 5/16-18 UNC x 1
	3FH0568	2	2	2	External retaining ring, 7/8"
354.	3FH0574	2	2	2	Heavy external retaining ring, 1"
355.	3FH0577	1	2	3	External retaining ring, 1-3/8" (Not used on off-set trolley)
356.	3FH0602	1	1	. 1	External retaining ring, 1/2", Self locking
357.	3FH0712	3	6	9	Cotter pin, 1/8" x 3/4"
358.	3FH0720	2	2	2	Cotter pin, $5/32$ " x $3/4$ "
	3FH0721	11	9	10	Cotter pin, 5/32" x 1"
360.	3FH0742	2	2	2	Cotter pin, 1/4" x 1-3/4"
	3FH0745	1	1	1	Cotter pin, 1/4" x 2-1/2"
	3FH0790	A/R	A/R	A/R	Lock washer, 5/16"
	3FH0791	A/R	A/R	A/R	Lock washer, 3/8"
	3FH0793 3FH0817	2 1	4 1	6 1	Lock wahser, 1/2" Bushing, 7/8" OD x 33/64" ID x 10 GA
366.	3FH0828	8	8	12	Machinery bushing, 1-1/4" OD x 3/4" ID x 14 GA
367.	3FH0837	2	2	2	Machinery bushing, 1-3/8" OD x 7/8" ID x 18 GA
368.	3FH0831	2	2	2	Machinery bushing, 1-1/2" OD x 1" ID x 14 GA
369.	3FH0851	2	4	6	Plastic flat washer, 29/32" OD x 1/2" ID x 5/64"
	3FH0863 3FH0864		3	4	Flat washer, 1/4" Flat washer, 5/16"
3/1.	31 110004	. 0	0	10	27'1" to 35'11"(Triple)
		7	10	10	36' to 48' (Single-Double- Triple)
372.	3FH0898	1	1	1	Spring pin, 1/4" x 2"
	3FH0900		3	4	Spring pin, 1/4" x 7/8"
	3FH0948		8	10	Flat washer, 3/8" SAE
375.	3FH0950	5	6	7	Flat washer, 1/2" SAE
376.	3FH0952	2	0	0	Flat washer, 5/8" SAE(36' dia. bin and larger only)(Single)
	3FH0962 3FH0976		1 8	1 8	Rivet washer, 3/16" Round cupped washer, 7/8" OD x
379.	3FH0977	A/R	A/R	A/R	17/64" ID Round cupped washer, 7/8" OD x 5/16" ID
3.20	3FH0986	1	1	1	Woodruff key, 3/16" x 5/8"
-	3FH0998		2	3	Woodruff key, 5/16" x 1-1/8"
	3FH1013		2	3	Square key, 3/16" x 9/16"
388	5FH0081	2	2	3	"S" hook, #17
	5FH0094		3	3	Clip
	5FH0088		- 1	1	Cable clamp, 3/16"



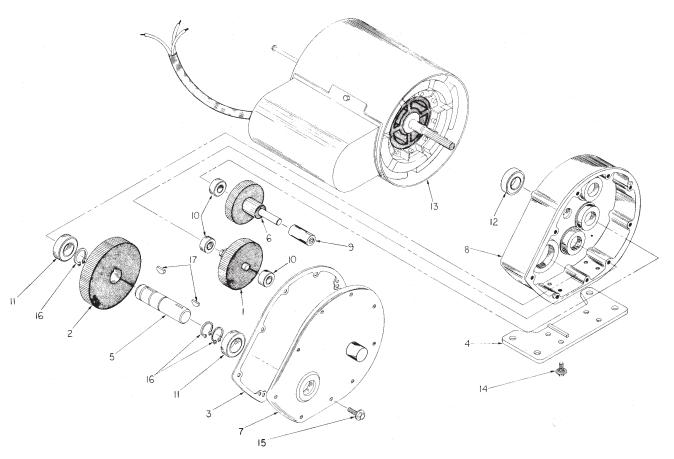
DMCMODEL E-3101 - 230V - GEAR MOTOR
502A0040



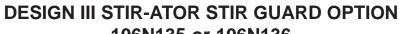
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REF. NO.	PART NUMBER	NO. REQ'D	DESCRIPTION
1. 2. 3. 4. 5. 6. 7. 8. 9.	501A0016 501A0017 501A0018 502A0001 502A0002 502A0006 502A0008 502A0035 PT0241	1 1 1 1 1 1 1 1	Gear assembly, 18 and 60 T. Gear, 80 T. Cover gasket Base Output shaft Gear assembly, 15 and 63 T. Cover, with roller clutch and bearing Transmission gear housing Roller clutch and bearing, 3/8"
10. 11. 12. 13. 14. 15. 16.	PT0361 PT0376 PT0377 3EL4006 2FH0980 2FH0982 3FH0562 3FH0986	3 2 1 1 4 9 3 2	Bearing, 3/8" Output shaft bearing, 3/4" Bearing, 17mm Motor assembly, 1/8 HP - 230 Volt Hex flange whiz lock screw, 1/4" x 1/2" Hex flange whiz lock screw, 1/4" x 7/8" Retaining ring, 3/4" Woodruff key, 3/16" x 5/8"

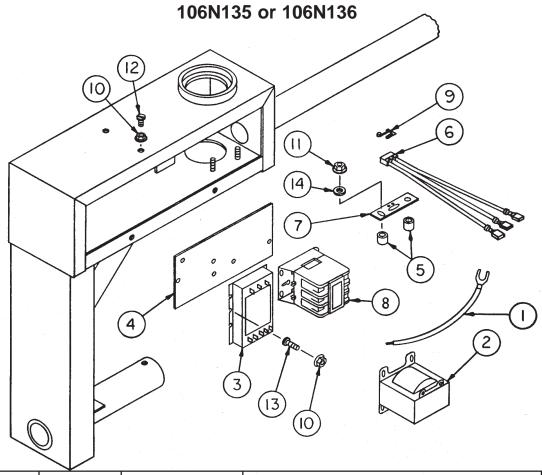
Parts List DIII Stir-Ator

DMCMODEL E-3442 - 440 V - GEAR MOTOR 502A0045



REF.	PART	NO.	DESCRIPTION
NO.	NUMBER	REQ'D	
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16.	501A0016 501A0017 501A0018 502A0001 502A0002 502A0006 502A0008 502A0035 PT0241 PT0361 PT0376 PT0377 502A0044 2FH0980 2FH0982 3FH0562 3FH0562	1 1 1 1 1 1 1 1 3 2 1 1 4 9 3	Gear assembly, 18 and 60 T. Gear, 80 T. Cover gasket Base Output shaft Gear assembly, 15 and 63 T. Cover, with roller clutch and bearing Transmission gear housing Roller clutch and bearing, 3/8" Bearing, 3/8" Output shaft bearing, 3/4" Bearing, 17mm Motor assembly, 1/8 HP - 440 Volt Hex flange whiz lock screw, 1/4" x 1/2" Hex flange whiz lock screw, 1/4" x 7/8" Retaining ring, 3/4" Woodruff key, 3/16" x 5/8"

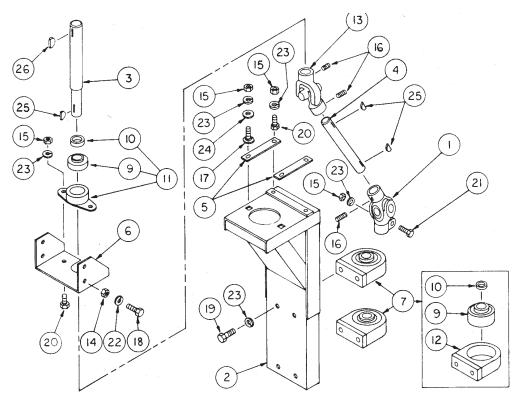




REF. NO.	PART NUMBER	NO. REQ'D.	DESCRIPTION
1.	106E032	2 - 1 PH	Jumper wire (Black)
	106E032	3 - 3 PH	Jumper wire (Black)
2.	106E061	1	440 Volt transformer (440 Volt only)
3.	106E063	1	Solid state timer - 45 timer
4.	106E066	1	Stir-Guard mounting place
5.	106E073	2	Switch stand-off
6.	106E074	1	Switch with leads
7.	106E075	1	Switch mounting plate w/clinch nuts
8.	2EL0245	1	Magnetic contactor, 40 amp
9.	2EL0641	1	Auxiliary actuator with hardware
10.	1FH0993	6-230V	Hex flange whiz lock nut, #8-32 UNC
	1FH0993	10-440V	Hex flange whiz lock nut, #8-32 UNC
11.	1FH0995	2	Hex flange whiz lock nut, 1/4 - 20 UNC
12.	2FH0772	2	Slotted pan head machine screw, #8-32 UNC x 1/2 (440 Volt only)
13.	2FH0775	4	Slotted pan head machine screw, #8-32 UNC x 3/4
14.	3FH0863	2	Flat washer, 1/4"
	105N0092	1	Stir-Guard wire package (NOT SHOWN)

Parts List DIII Stir-Ator

DESIGN III STIR-ATOR OFFSET AUGER OPTION



REF.	PART	NO.	
NO.	NO.	REQ'D.	DESCRIPTION
1.	103B0142	1	Universal joint with coupling end
2.	106B130	1	Off-set weldment
3.	106B135	1	Upper stub shaft (Off-set)
4.	106B136	1	Stub shaft (Off-set)
5.	106B200	2	Pinch strap
6.	106B207	1	Off-set bearing support
7.	PTO120	2	Bearing w/ housing, 1" bore,
			(Complete w/ bearing)
9.	PTO215	3	Bearing, 1" with eccentric
			locking collar
10.	PTO401	3	Collar, eccentric lock, 1"
11.	PTO111	1	Bearing with housing, 1" bore (Complete)
12.	PTO422	2	Bearing housing, tapped base (Special)
13.	PTO980	1	1" standard universal joint
14.	1FH0764	4	Hex nut, 5/16"
15.	1FH0765	7	Hex nut, 3/8"
16.	2FH0519	6	Socket head set screw, 3/8" x 5/16"
17.	2FH0660	2	Carriage bolt, 3/8" x 1"
18.	2FH0828	4	Hex bolt, 5/16" x 3/4"
19.	2FH0853	4	Hex bolt, 3/8" x 3/4"
20.	2FH0855	4	Hex bolt, 3/8" x 1"
21.	2FH0858	1	Hex bolt, 3/8" x 1-3/4"
22.	3FH0790	4	Lock washer, 5/16"
23.	3FH0791	11	Lock washer, 3/8"
24.	3FH0948	2	Flat washer, 3/8" SAE
25.	3FH0993	3	Woodruff key, 1/4" x 1"
26.	3FH0998	1	Woodruff key, 5/16" x 1-1/8"

40

OPERATIONAL ADJUSTMENTS

OUTBOARD AUGER TILT

The standard DESIGN III Stir-Ator has an adjustable outboard auger tilt. When adjusting the auger toward the bin wall or if your Stir-Ator is equipped with an offset trolley, the inside wall ladder can interface with the operation of the Stir-Ator and may have to be removed or reinstalled closer to the bin wall.

To adjust the auger tilt, loosen the 3/8" x 1-1/2" carriage bolts that hold the lower and upper bearings. See Photos A and B. Loosen the 3/8" nuts on the adjustment bolt under the trolley. Adjusting this bolt will move the auger closer or farther from the wall. See Photo C.

By moving the bearing the distance shown (See Chart) the bottom of the auger will move the distance given. The chart is to be used as a guide only.

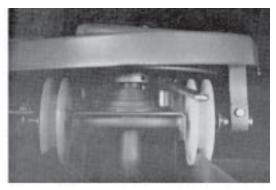


Photo A

Auger Length							
Bearing Adj. 16' 18' 20'							
1/8"	3-1/8	3-1/2	3-7/8				
1/4"	6-1/4	7	7-3/4				
3/8"	9-3/8	10-1/2	11-5/8				

Cable Tension

To adjust the Stir-Ator cable tension, stop the unit so the trolley is not at the bin wall. Use the two 3/8" nuts to adjust the cable idler in or out to increase or decrease the tension on the cable. See Photo D.

Check the tension between the idler pulleys on all units as shown in the diagram, using 20-25 pounds to move the cable 3/8" midway between the idlers.

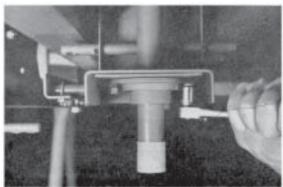
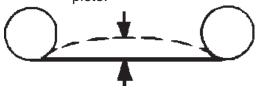


Photo B

Be sure to tighten the adjusting nuts and bearing bolts after the adjustment is complete.



Photo CTrolley adjustment standard unit.



3/8" Deflection requires 20-25# pressure.

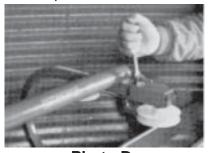


Photo D



Trolley Drive Link

Continuous stirring at any fixed distance from the center of the bin can be done by the use of the enter trolley drive link. To use this feature, run the trolley to the desired location, (unhook the link going through the drive sheave) and hook the drive link to one of the hook slots above the sheave. This will prevent the trolley from moving in or out on the frame rails. To have continuous stirring at the bin wall, position the cable connector between the cable idler sheaves and hook the link in the hook slot. The unit will automatically rehook itself if the link is dropped off of the hook slots, and resume driving the trolley in and out on the frame rails. See Photo E.



Photo E



Mercury Switch

The transparent mercury switch controls the trailback of the auger in the direction of travel around the bin. This switch is set at the factory for normal trailback, and should stop the movement of the machine when the bottom of a 16' auger is 14" - 20" back of a vertical line from the auger shaft bearing to the floor.

The trail back is adjusted correctly when the following is observed: The gear motor will turn "ON" when the down augers are vertical. The gear motor will turn "OFF" when the down augers reach 6 degree trail back. Be sure the Photo E mercury switch is installed in the clip with the "UP" in the top-most position.

ADJUST MERCURY SWITCH TO THE RIGHT FOR MORE TRAIL BACK. ADJUST MERCURY SWITCH TO THE LEFT FOR LESS TRAIL BACK.

Safety Shut-off Switch

The automatic shut-off chain is for safety. It is designed to shut off the electrical power to the unit should the trolley or swivel unit bind up,

preventing normal travel of the Stir-Ator. To properly attach, hook the chain end with the open loop to the "S" hook welded to the suspension bar. Hook the other end of the chain onto the "S" hook in the switch box handle.

Use the "S" hook on the end of the shut-off chain to hook any excess chain slack back to the chain itself. This allows the length of the shut-off chain to be adjusted at the switch box. (See Photo 68 on page 15). There should only be enough slack in the chain, with the unit running, so the switch box handle is not pulled down during normal operation. Too much slack in the chain will not shut the unit off if there is a problem and can get caught in the machine itself as the Stir-Ator passes under the shut-off chain. Hold shut-off chain and the electrical wire above the Stir-Ator with the provided shut-off support chain(s). See Drawing A on page 21.

The electrical wire should be held with the extra "S" hook found tied to the end of the support chains. Pass the electric wire through the large loop of the "S" hook, and then hook the cord up on the support chain so it clears the shut-off chain and the Stir-Ator.



CAUTION: Electric cord must have more slack than the shut-off chain so in case of a shut off, the electric cord is not ripped from the switch box. This could cause electrical shock or bodily injury.



DIII Stir-Ator Operation

OPERATION OF THE DESIGN III

The successful drying of the grain is as important as any other phase of your farming operation, and like other farming phases, can be best utilized by combining science, experience, and common sense.

The primary function of the Stir-Ator is to save time and money in your drying bin and improve uniformity of your grain by mixing, loosening, and circulating the grain during the drying process. The Stir-Ator should be started as soon as there is three feet of grain in the bin and the operation continued throughout the filling, drying and cooling. Periodic use of the Stir-Ator in stored grain, with or without the use of the fan, will improve chances of preserving the grain and destroying insect infestations.

The temperature of the air used for stir-drying can range from 70 to 150 degrees, or even higher. When using lower temperatures, a slower rate of drying will be accomplished. High temperature drying is faster but less uniform, and will possibly lessen the feed value or test weight of the grain. A plenum temperature of 90 degrees to 120 degrees is generally regarded as the best compromise between speed and quality. At this temperature, the Stir-Ator will usually maintain moisture variations to within 1% top to bottom.

WET GRAIN at the BIN WALL may be a problem when stored in the drying bin. This can be minimized by drying with a 20 degree or less heat rise, equipping your Design III with the optional offset trolley body or install wall liners or air tubes in your drying bin. They are an excellent condensation preventative and can increase drying capacity because higher drying temperatures can be used.

The Stir-Ator and fan-heater unit should be "matched" for efficient drying. Over-drying of bottom grain, with scallops and channelling in the upper layers, is a frequent result of using a single-auger Stir-Ator with a large capacity fan-heater and high drying temperature combination. Channelling occurs in the first few hours of the drying operation. A Stir-Ator with more down augers is the remedy if high capacity is needed. Conversely, over stirring with low heat and air flow will result in slower drying with increased drying costs. Single auger Stir-Ators should be used in smaller bins (under 24' diameter) and with 3 to 5 HP fan-heater units. Larger bins and fan-heater units require more down augers. See Stir-Ator Drying Chart SA-15 at your dealer, or see page 47.

It is important to have enough openings at the top of the bin so moisture-laden air can escape. Additional manholes or roof vents can be beneficial in letting moisture-laden air out.

Removing trash and fines will improve the efficiency of your drying operation and reduce storage problems.

Start-up Procedure -- Full Bin

First, have the power turned "off" at the switch box under the bin roof. Turn power on at panel on the ground, then try and start the unit with the switch box under the bin roof. If the augers aren't set too tight in the grain, the Stir-Ator will run.

Second, if the augers are set tight in the grain, take a pipe wrench and carefully try to break them loose by hand. Do not use too much force, or damage can result to the Stir-Ator frame, Stir-Ator wall track, or the bin roof and/or sidewalls could be ruined. If much torque is needed to turn augers, block the Stir-Ator up until the augers have been broken loose and turn relatively free.



Operation DIII Stir-Ator

Start-up Procedure -- Full Bin (continued)

Third, if double or triple auger units, lock-out all Stir-Ator auger motors but one. After it is operating, continue to engage remaining motors until they are all in operation.

To lock-out an auger motor simply rotate the handle beneath each motor mount clockwise until it goes past center and remains there. See Photo F.

> DO NOT TURN STIR-ATOR AUGERS BACKWARD AND TURN THE ELECTRIC POWER SWITCH ON. BIN DAMAGE CAN RESULT.



Photo F

Track Unit Drive Sprocket

Because of the different physical characteristics of the grain, the DESIGN III has the versatility to adapt to these changes. The roller chain sprocket on the gear motor is connected to the track drive wheel by means of the roller chain. The forward speed of the DESIGN III can be varied by changing the roller chain sprocket on the gear motor.

LISTED BELOW ARE THE STANDARD ROLLER CHAIN SPROCKETS USED:

Standard trolley units under 36' diameter - 10T sprocket - PT1098 Standard trolley units 36' diameter and above - 12T sprocket - PT1099

Off-set trolley units under 36' diameter 12T sprocket - PT1099 Off-set trolley units 36' diameter and above - 14T sprocket - PT1101

Stir-Guard Operation

The Stir-Guard is designed to protect your grain by shutting off the Stir-Ator if the unit is not advancing around the bin normally. As the gearmotor drives the unit around the bin, a microswitch actuator which rides on the lower notched swivel block sends a pulse to the solid state timer each time the roller advances one notch. If the unit does not advance forward enough to actuate the switch in 45 minutes, the timer will run out and the power to the motors on the Stir-Ator will be shut off by the contactor located in the swivel box of the Stir-Ator.

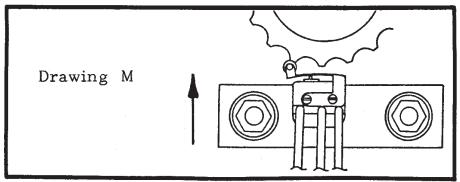
To reset the Stir-Guard timer, move the switch box handle to the "off" position, and then back "on". The unit will start up again. Before the Stir-Guard is reset, the problem that caused the Stir-Guard to shut the unit off should be located and corrected.

If adjustment of the microswitch roller acutator becomes necessary, turn off the power to the swivel at the switch box. Remove the right swivel box cover and loosen the nuts on the roller switch plate. Rotate the swivel block so the switch roller is riding on the peak of a swivel cog (See Drawing M). Slide the roller switch plate slowly in until the microswitch just clicks, then move the switch an additional 1/16" and tighten the nuts. Rotate the swivel to assure the switch clicks "on" and "off" as the roller rides in and out on the swivel cog. This is necessary for a pulse to be sent to the Stir-Guard timer.

See the Trouble Shooting Guide for assistance if a problem is present.



DIII Stir-Ator Operation



Stir-Ator Travel Time One Revolution

	HOUR								
BIN DIAMETER	TROLLEY LOCATION								
	MIDWAY ON FRAME	AT BIN WALL							
18'	39min.	1 hr. 12 min.							
21'	45min.	1 hr. 30 min.							
24'	52min.	1 hr. 42 min.							
27'	58min.	1 hr. 56 min.							
30'	1 hr. 6min.	2 hr. 12 min.							
33'	1 hr.11min.	2 hr. 22 min.							
36'	1 hr.18min.	2 hr. 36 min.							
40'	1 hr. 26min.	2 hr. 53 min.							
42'	1 hr. 31min.	3 hr. 2 min.							
48'	1 hr. 40min.	3 hr. 21 min.							

Average forward speed of auger through corn = 9" per min.

STORAGE

The Stir-Ator is an excellent tool to aid in the preservation of grain stored in the drying bin. Some experimentation has been done with storage of grain in the 16% range by use of the Stir-Ator to prevent formation of "hotspots" and insect hatchings. Such a program should be undertaken with caution, and frequent inspections made. The Stir-Ator guarantee does not extend to this use, although successful tests have been made.

Users of the Stir-Ator sometimes want to utilize more of the capacity of the bin for dry storage by heaping dried grain over the Stir-Ator. This is not recommended because the downward pressure of the grain on the Stir-Ator, when the bin is emptied, will possibly bend or break parts of the machine or collapse the roof of the bin.

WARRANTY WILL BE VOIDED IF STIR-ATOR IS COVERED WITH GRAIN

Operation DIII Stir-Ator

DRYING GUIDE DRYING IN GRAIN DEPTHS OF OVER 18 FEET IS NOT ADVISED

The recommendations below are for drying bins **without wall-liners or air tubes.** If such equipment is used, higher temperatures can be used without worry of bin wall moisture. Consequently, a faster fill rate also can be utilized.

Clean grain is very important to have uniform drying.

Grain with a moisture of 20% - 26% from the field is the most profitable harvest-drying range. Grain depths of up to 18' can be used in one fill using air only (no heat) or little heat, until the depth reaches six to eight feet. This helps establish a uniform drying front.

A moisture of 27% - 30% for grain can be successfully harvested and dried, however, some caution should be used. Put up to 15' of grain into the bin during the first fill. This grain should be dried down to 20% - 25% level, then additional grain can be added.

When drying 27% - 30% grain it would be advisable to keep the plenum temperature less than 50 degrees above the ambient temperature for the first 4% - 6% of moisture removed. After the initial moisture is lowered, higher temperatures can be utilized.

Drying grain with 30% - 35% moisture is inefficient, but is sometimes done out of necessity. Under such conditions first clean the grain. Then fill to a depth of 12' - 15'. Dry this to 20% - 25%. Filling up to the 18' depth will then give better results.

Grain testing over 35% moisture should not be harvested for drying except under emergency conditions. Harvest damage will be extensive, and drying will be very difficult and expensive. The only course to be followed under these conditions is to fill slowly and supervise constantly.

NOTE: The higher the moisture of the grain, the lower the starting temperature should be to minimize wall condensation and insure highest quality of grain.

Bin liners, air tubes or Stir-Ator off-set trolley bodies, depending on the severity of the condition, can be used successfully to control the problem of wet walls from condensation.

Check for moisture content of dried grain by taking and blending several samples across the top of the bin and from the grain coming up near the Stir-Ator auger.



CAUTION: ALWAYS HAVE THE STIR-ATOR TURNED "OFF" WHEN TAKING SAMPLES





DIII Stir-Ator Operation

**Number of Stir-Ator Augers versus Fan and Heater Sizes

These charts are based on ambient air temperature of 50° F., 60% relative humidity, 16 feet (4.9 m) of corn, 7-12% moisture removal (23.5% - 16%). This chart is designed as a guide only. Fan performance will vary considerably from one manufacturer to another and other factors can change the approximate bushels per day. Choose from Stir-Ator models with one, two or three augers to fit bins from 18 feet (3.5m) to 48 feet (14.6m). Each model gives you all the exclusive Stir-Ator features that can turn a simple bin into a wet-holding tank, dryer, and storage bin - all in one unit.

	CORN - 16 FEET						HEATED AIR (Heat Rise Above						Temper	ature - Fa	hrenhe	t)	NATURAL AIR-CORN-16 FT.						
		Multi	g rate pliers* ere fans		Static Pres- sure	25		50°	,	75°		100	۰.	125	0	150	0				Static	CFM	AU-
Bin	Fan	2	3	CFM for	for 1		#		#		#		#		#		#	Bin			Pres-	Per	ger
Size	H.P.	Fans	-	1 Fan	Fan	BPD	Aug	BPD	Aug	BPD	Aug	BPD	Aug	BPD	Aug	BPD	Aug	Size		CFM	Sure	_	Regu
18	5.0 7.5	1.2	na	6600 7100	3.5	360 490	1	750 810	1	1100 1180	2	1480 1590	2 2	1850 1990	3	2240 2400	3 3	18	1 HP-18" 3.0	3800 4600	1.6	1.1	1 1
	1.5	1.2	na	7100	0.5	450	'	010	'	1100	-	1550	-	1990	ľ	2400			5.0	6600	3.5	1.9	l i l
21	5.0	1.2	na	8100	3.0	450	1	920	2	1350	2	1810	3	2270	3	2740	3	21	1 HP-18"	4300	1.2	.9	1
	7.5	1.2	na	9100	3.6	500	1	1030	2	1520	2	2030	3	2560	3	3080	3		3.0	5100	1.5	1.1	
	10.0	1.2	na	9200 10600	3.6 4.5	510 580	1	1040 1200	2 2	1530 1770	2	2060 2370	3	2580 2980	3	3120 3590	3 3		5.0 7.5	8100 9100	3.0	1.7	1 1
	12.5	1.2	na	10000	4.5	360	'	1200	-	1770	,	2370	3	2300	,	3390	,		10.0	9200	3.6	2.0	i
24	7.5	1.3	na	10200	2.8	560	1	1160	2	1700	3	2280	3	2860	4	3460	4	24	3.0	5300	1.1	.9	1
	10.0	1.2	na	11000	3.2	610	1	1250	2	1830	3	2460	3	3090	4	3730	4		5.0	9200	2.4	1.5	1
	10 C	1.5	na	11300	3.3	620	1	1280	2	1880	3	2530	3	3170	4	3830	4		7.5 10 C	10200	3.2	1.5	
	12.5 15 C	1.3	na	12000 13100	3.6 4.1	660 720	1 1	1360 1490	2 2	2000 2180	3	2680 2930	3	3370 3680	4	4070 4440	4 4		10.0	11000	3.3	1.8	
	20 C	na	na na	15500	5.3	850	2	1760	3	2580	3	3460	4	4350	4	5250	4		12.5	12000	3.6	2.0	i
27	7.5	1.4	na	10900	2.2	600	1	1240	2	1820	3	2440	3	3060	4	3690	4	27	5.0	10100	2.0	1.3	1
	10. C	1.6	na	12000	2.5	660	1	1360	2	2000	3	2680	3	3370	4	4070	4		7.5	10900	2.2	1.4	1
	10.0	1.3	na	12200	2.6	670	1 1	1380	2	2030	3	2730	3	3430	4	4130	4		10 C	12000	2.5	1.5	1
	12.5 15 C	1.4	na	13100 14100	2.9 3.2	720 780	1 2	1490 1600	2 2	2180 2350	3	2930 3150	4	3680 3960	4	4440 4780	4 4		10.0 12.5	12200 13100	2.6	1.6	1 1
	20 C	1.5	na na	16600	4.2	910	2	1880	3	2770	3	3720	4	4660	4	4620	4		15 C	14100	3.2	1.8	Hil
	30 C	1.3	na	19200	5.2	1060	2	2180	3	3200	4	4290	4	5390	4	6500	4						
30	7.5	1.6	na	11400	1.7	630	1	1290	2	1900	3	2550	3	3200	4	3680	4	30	5.0	10700	1.6	1.1	1
	10 C	1.7	na	12500	2.0	690	2	1420	2	2080	3	2790	4	3510	4	4230	4		7.5	11400	1.7	1.2	111
	10.0	1.5	na	12900	2.1	710	1	1460	2	2150	3	2880	4	3620	4	4370	4		10 C 10.0	12500 12900	2.0	1.3	1 1
	12.5 15 C	1.5	na na	13900 14900	2.3	760 820	2 2	1580 1690	2	2320 2480	3	3110 3330	4	3900 4180	4	4710 5050	4 4		12.5	13900	2.3	1.4	1
	20 C	1.6	na	17600	3.3	970	2	2000	3	2940	4	3930	4	4940	4	5960	4		15 C	14800	2.6	1.6	1
	30 C	1.6	na	20300	4.1	1120	2	2300	3	3390	4	4540	4	5700	4	6880	4		20 C	17600	3.3	1.8	2
																	\sqcup		10 (2)	18800	3.6	2.0	2
33	10 C	1.7	na	12800	1.6	700	1	1450	2	2130	3	2860	4	3590	4	4340	4	33	5.0	11200	1.3	1.0	
	10.0 12.5	1.6	na	13200 14600	1.6	730 800	1 2	1500 1660	2 2	2200 2430	3	2950 3260	4	3710 4100	4	4470 4950	4 4		7.5 10 C	11700 12800	1.6	1.1	
	15 C	1.6	na na	15400	2.0	850	2	1750	3	2570	3	3440	4	4330	4	5220	4		10.0	13200	1.6	1.1	1
	20 C	1.6	na	18400	2.6	1010	2	2090	3	3070	4	4110	4	5170	4	6230	4		12.5	14600	1.9	1.2	1
	30 C	1.6	na	21200	3.3	1170	2	2400	3	3530	4	4740	4	5950	4	7180	4		15 C	15400	2.0	1.3	1 1
																			20 C	18400	2.6	1.6	2 2
											1								10 (2) 12.5(2)	21300 23400	3.8	1.8	2
36	10 C	1.8	na	13100	1.3	720	1	1490	2	2180	3	2930	4	3680	6	4440	6	36	10.0	13500	1.3	1.0	1
	10.0	1.7	na	13500	1.3	740	1	1530	2	2250	3	3020	4	3790	6	4570	6		12.5	15100	1.5	1.1	1
	12.5	1,7	na	15000	1.5	830	2	1700	3	2500	3	3350	6	4210	6	5080	6		15 C	15900	1.6	1.1	
	15 C	1.7	na	15800	1.6	870	2	1790	3	2630	4	3530	6	4440	6	5350	6		20 C	18900 23200	2.1	1.4	2
	20 C 30 C	1.7	na na	18900 21800	2.1	1040 1200	2	2140 2470	3	3150 3630	6	4220 4870	6	5310 6120	6	6400 7390	6		10 (2) 12.5(2)	25100	3.2	1.8	2
	30 0	1	110	21000	2.0	1200	-	2470	ľ	0000	"	40,0		0120	"	7000	۱۱۱		15 C(2)	27200	3.6	2.0	2
42	10.0	1.8	2.4	13800	.9	760	2	1560	2	2300	3	3080	6	3880	6	4680	6	42		19500	1.4	1.0	2
	12.5	1.8	2.3	15600	1.1	860	2	1770	3	2600	3	3490	6	4380	6	5290	6		30 C	22600	1.8	1.2	2
	15.0	1.8	2.4	16400	1.1	900	2	1860	3	2730	6	3670	6	4610	6	5560	6		12.5(2)	27700	2.4	1.5	2
	20 C	1.8	2.4	19500 22600	1.4	1070	2 2	2210 2560	3	3250 3770	6	4360 5050	6	5480 6350	6	6610 7660	6		15 C(2) 20 C(2)	29600 35100	3.4	1.6	3
	30 C 40 C	1.8	2.4	26400	2.2	1240 1450	3	2990	6	4400	6	5900	6	7410	6	8940	6		20 0(2)	30100	"		
48	10.0	1.9	2.7	13900	.6	760	2	1580	2	2320	3	3110	6	3900	6	4710	6	48	40 C	26800	1.5		2
	12.5	1.8	2.5	16000	.8	880	2	1810	3	2670	6	3580	6	4490	6	5420	6		12.5(2)		1.8	1.2	2
	15 C	1.9	2.6	16700	.8	920	2	1890	3	2790	6	3730	6	4690	6	5660	6		15 C	31200	1.9	1.3	3
	20 C	1.9	2.6	19900	1.0	1100	2	2260	3	3320	6	4450 5160	6	5590	6	6740 7830	6		20 C 30 C(2)	37100 42900	3.0	1.5	3
	30 C 40 C	1.8	2.5	23100 26800	1.2	1270 1470	3	2620 3040	6	3850 4470	6	5990	6	6490 7530	6	9080	6		40 C(2)		3.9		
	50 C	1.8			1.9	1740	3	3580	6	5270	6	7060	6	8800	6	10710	6			50700	3.9	2.0	3
* A I			}				<u> </u>					7 (40			I N A	14.5	والمساورين	a rates	4. 0	- (- ·		- 1

^{*} All multiple fans are in parallel. Multiply drying rates x .77 for 10 point removal. Multiply drying rates x 1.35 for 5 point removal.

All multiple fan static pressures (where multipliers are shown) fall within acceptable performance guidelines.

^{**} Stir-Ator down auger recommendations, as shown in the chart, are for stir-dry bins only. For Grain Flow continuous flow drying system application, please refer to Grain Flow drying chart for down auger recommendations.



DESIGN III Stir-Ator Trouble Shooting

PROBLEM

PROBABLE CAUSE

- 1. Auger motor (s) and gearmotor does not run
- 1. a) Main power is not on
 - b) Contactor in swivel box bad (replace)
 - c) Contacts in contactor are dirty or burned (clean or replace)
 - d) Swivel straps loose or broken (replace strap or clip)
 - e) Broken, loose or shorted wire (call electrician)
 - f) Stir-Guard solid state module bad (replace)
 - g) Junction box on trolley improperly wired (New installation only-see wiring diagram)
 - h) Electrical swivel shorted or loose connection
- 2. Gearmotor runs but auger motor(s)
- 2. a) Auger motor overload tripped (push do not reset button on motor)
 - b) Augers stuck in grain (see start-up procedures)
 - c) Motor burned out (replace)
 - d) Improper wiring at trolley junction box (new installation only)
 - e) Is motor H.P. adequate for length of auger
 - f) Fuse blown (replace)
- 3. Auger motors run but gearmotor does not
- 3. a) Gearmotor fuse blown (replace)
 - b) Low voltage or wired for 115 volts (check trolley junction box for proper wiring)
 - c) Gearmotor burned out (replace)
 - d) Gearmotor case transmission problem (repair or replace)
 - e) Drive chain off sprocket
 - f) Augers trailed back and mercury switch shut gearmotor off (normal -See problem #6)
 - g) Mercury switch not adjusted properly (See Operating Adjustments)
 - h) Gearmotor and mercury switch not wired properly at trolley junction box.
 - i) Auger will not advance through grain (See Auger Problem #6)
 - j) Gearmotor overload tripped overload will reset automatically when cool. Check for excessive drag.
- 4. Unit has been tripped off by safety chain
- 4. a) Chain is adjusted too tight (See shut-off chain adjustments)
 - b) Switch box handle moves too freely (replace box or hook common door spring from handle to bin roof, being sure it is not too tight to prevent safety shut-off from working properly.
 - c) augers too long and touch floor
 - d) Foreign object in corn stops
 - e) Trolley binding on frame rails
 - f) Cable connector installed backwards not going around idler pulleys
 - g) Check correct length unit for bin size



DESIGN III Stir-Ator Trouble Shooting

PROBLEM

PROBABLE CAUSE

5. Unit stops after 45 minutes - Stir-Guard turned the unit off

- a) Stir-Ator not advancing around the binb) Stir-Guard microswitch acutator roller out
 - of adjustment (See Stir-Guard operation)
 c) Excessive moisture on switch shorting out
 microswitch leads (dry and seal with silicone caulk)
 - d) Microswitch bad (replace)
 - e) Stir-Guard solid state module bad (replace)
 - f) Reference problem #3, 6 or 7
- 6. Auger not advancing through grain
- 6. a) Mercury switch not adjusted properly (See Operations Adjustment)
 - b) Auger worn out (replace)
 - c) Foreign object in grain (remove object)
 - d) Stir-Ator hung low in center and auger drags on floor (raise center to 1" high for every 18' diameter)
 - e) Excessive moisture and foreign material caused grain to form hard spots (remove grain See Drying Guide)
 - f) Frame pivot

Track unit does not advance

- 7. a) Gearmotor fuses blown (replace)
 - b) Track unit caught on bin bolt (cut off excessive bolt length)
 - c) Gearmotor tripped out on overload (leave cool it is an automatic reset)
 - d) See Problem #3

8. Cable jumps off

- 8. a) Cable too loose (See Adjustment)
 - b) Large center drive pulley bent (replace)
 - c) Cable connector installed backwards (reverse connector)
 - d) Trolley binding up on frame rails (repair binding cause)
 - e) Check for proper drive arm post location (See Step 13, Photo 27)

9. Trolley will not travel in or out

- a) Center drive arm unhooked from drive link. (See Adjustment)
 - b) Drive cable too loose (See Adjustment)
 - c) Center drive arm bolt sheared (replace with 5/16" x 1-3/4" grade 5 hex bolt) (Trolley may be caught locate source)

10. Excessive machine vibration

- 10. a) Auger bent (replace auger)
 - b) Auger shaft not totally inserted up into stub shaft socket (insert and torque clamp bolts to 140 ft-lbs)

11. Channelling in the grain or

- 11. a) High moisture grain put in the bin being moisture difference dried with too much heat (See Drying Guide)
 - b) Too much fines in grain which restricts air flow and forms hard spots (clean grain)
 - c) Uneven heat distribution under drying floor (contact burner manufacturer)
 - d) Too large of bin and too much heat for the number of augers being used to stir the grain.





DESIGN III SERIES GRAIN STIR-ATOR

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