

SAFETY GUIDELINES

This manual contains information that is important for you, the owner/operator, to know and understand. This information relates to protecting **personal safety** and **preventing equipment problems**. It is the responsibility of the owner/operator to inform anyone operating or working in the area of this equipment of these safety guidlines. To help you recognize this information, we use the symbols that are defined below.

Please read the manual and pay attention to these sections. Failure to read this manual and it's safety instructions is a misuse of the equipment and may lead to serious injury or death.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.



DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

NOTE

NOTE indicates information about the equipment that you should pay special attention to.

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WARRANTY for Trans-Fer Pneumatic System

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.

EC DECLARATION OF CONFORMITY 8017030

David Manufacturing Company 1600 12th Street NE Mason City, IA 50401 USA

Declares that:

Machine name: Pneumatic Trans-Fer System

Type/Model: Model 700,1200 &1700

Machine description/uses:

The primary function of the Pneumatic Trans-Fer System is to move material (primarily grain) from one central location to several different destinations. It does this by mechanically introducing grain into a stream of moving air and having the air carry the grain in either 4"(101.5mm) or 5"(127mm) diameter tubes. The typical operating pressures range is from 3 psi (20.7 kpa) to 8 psi (55.2 kpa); the maximum distance is 400 feet (122 m).

Conforms to the EC Directive 89/392/EEC, (amended by Council Directive 91/368/EEC), the Machinery Directive, and in particular, the Essential Health and Safety Requirements that apply to it. Specifically to:

Schedule 1: General Points

Signed

Keith Braun

for David Manufacturing Company



(CE) Safety and Decals

CAUTION

Maintenance and Service

It is essential in undertaking any maintenance or servicing of the Trans-Fer System that a safe system of work is strictly followed. Failure to do so may result in serious injury to the operator. Before carrying out any work on the Trans-Fer:

Prior to inspecting, servicing, lubricating or adjusting the Trans-Fer, ensure the isolator switch is locked into the "OFF" position with the only key in your possession.

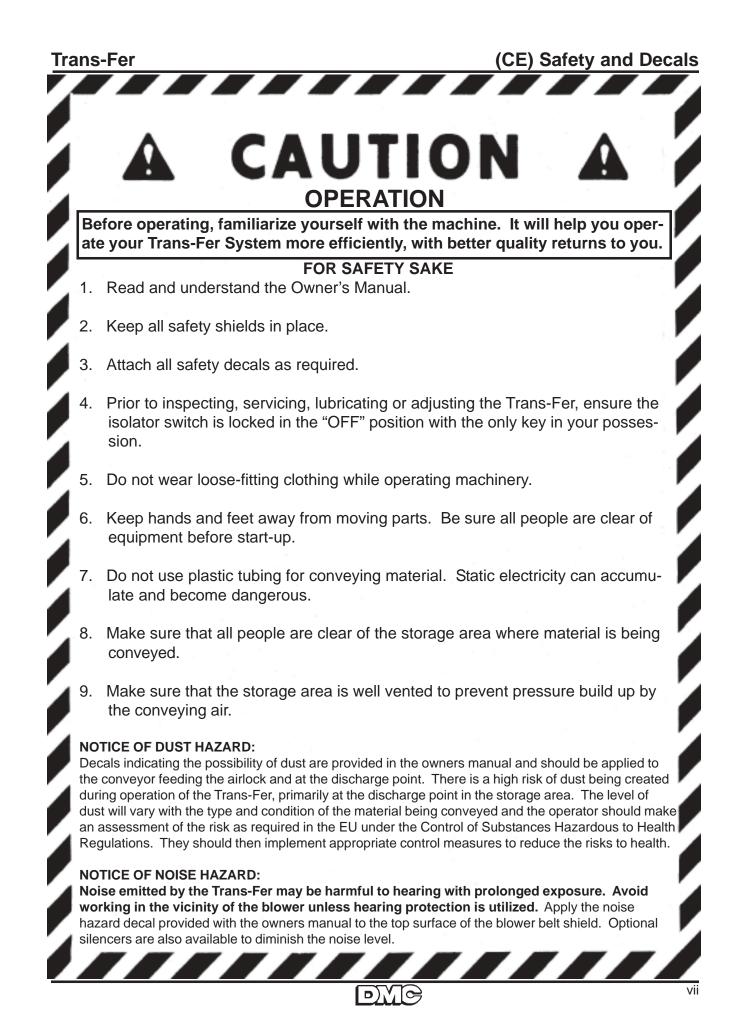
All electrical wiring should be in accordance to BS767:1992. Be sure equipment is properly grounded.

Individual service manuals for the blower and airlock are included with the Transfer.

Follow all safety recommendations listed in these manuals.

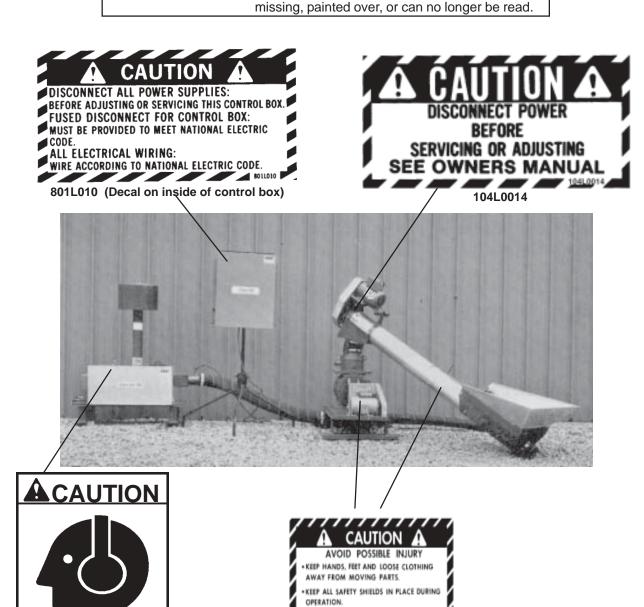
Make sure that the Trans-Fer blower and airlock assemblies are anchored securely in their operating positions to prevent operating vibrations from moving the units.

Remember to replace all guards before restarting the Trans-Fer system.



THE DECALS SHOWN ON THIS PAGE MUST BE DISPLAYED AS SHOWN

REPLACEME Write to:	NTS ARE AVAILABLE UPON REQUEST David Manufacturing Co., 1600 12th St. NE Mason City, IA 50401 USA
Email:	dmc@netins.net
Please note:	 The decals on this page are not actual size. Keep all decals wiped clean at all times. All decals must be replaced if they are destroyed,



ADJUSTING.

REFORE OPERATING.

DISCONNECT POWER BEFORE SERVICING OR

READ AND UNDERSTAND OWNERS MANUAL

205L004

NOISE HAZARD:

NOISE MAY BE HARMFUL TO

HEARING. USE HEARING

8017031

PROTECTION

MAINTENANCE SCHEDULE

Initial Start-Up

- 1. Duroflow Blower
- 2. Roots Blower
- 3. Gear Reducer
- 4. Air Filter
- 5. V-belts
- 6. Chain
- 7. Tubing System

- 1. Oil level with middle of sight glass (DMC #MS5389 synthetic oil.) (Mobil #SHC630)
- 2. Oil level to check plug (CDMC#MS5389#SHC630)
- 3. Oil level to check plug (SAE90)
- 4. Installed properly
- 5. Tensioned and aligned
- 6. Tensioned and aligned
- All couplers tight All tubing connections have good fit Tubing laid out straight Elbows fitting properly

After 1st 10 Hours and Daily

- 1. Blowers and Reducer
- 2. Air Filter
- 3. V-belts
- 4. Tubing

- 1. Check all oil levels
- 2. Check for excessive dust build-up
- 3. Check tension alignment
- 4. Check all connections for leaks and signs of separating

Weekly

- 1. Roots Blower
- 2. Chain

- 1. Grease bearings until grease comes out of relief fitting
- 2. Oil

500 Hours or 6 Months

1. Duroflow 1. Drain oil and replace with 30 oz. of DMC #MS5389 synthetic oil.

(fill to middle of sight glass)

2. Drain oil and replace with 16 oz. Of 10W40 (fill to oil level plug)

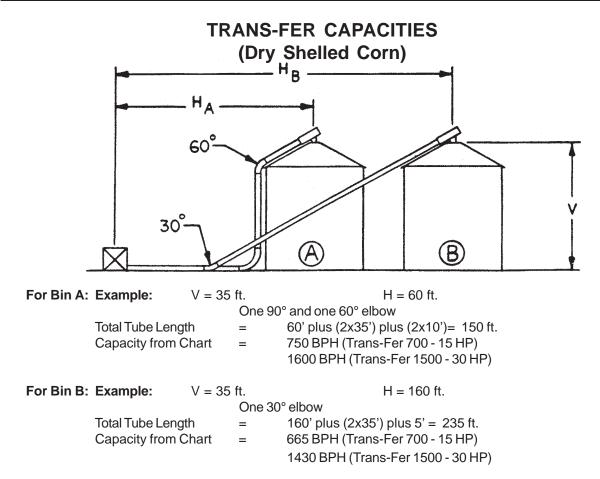
Extended Shut Down

2. Roots Blower

DISCONNECT MAIN POWER TO UNIT

 Blower
 Remove outlet assembly and spray oil on lobes while rotating by hand, to prevent rust Keep hands and objects out of blower Re-install outlet assembly
 Airlock
 Chain
 Oil chain to prevent rust

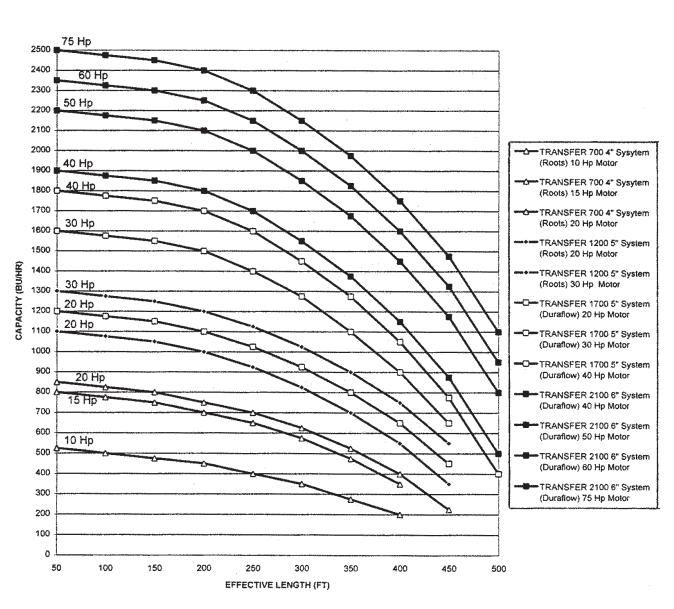
D)



Trans-fer Capacities

Effe	ctive	Trans-Fer 700Trans-Fer 12004" System (Roots)5" System (Roots)MotorsMotors		Trans-Fer 1700 5" System (DuroFlow) Motors			Trans-Fer 2100 6" System (DuroFlow) Motors						
Le	ngth	10 HP	15 HP	20 HP	20 HP	30 HP	20 HP	30 HP	40 HP	40 HP	50 HP	60 HP	75 HP
Ft	Μ	Metr	ic Ton/	Hour	Metric [·]	Ton/Hour	Met	ric Ton/	Hour	N	Aetric T	on/Hou	r
50	15.2	14.2	21.6	23.0	29.7	35.1	32.4	43.2	48.6	51.4	59.5	63.5	67.6
100	30.5	13.5	20.9	22.3	29.1	34.5	31.8	42.6	48.0	50.7	58.8	62.8	66.9
150	45.7	12.8	20.3	21.6	28.4	33.8	31.1	41.9	47.3	50.0	58.1	62.2	66.2
200	61.0	12.2	18.9	20.3	27.0	32.4	29.7	40.5	45.9	48.6	56.8	60.8	64.9
250	76.2	10.8	17.6	18.9	25.0	30.4	27.7	37.8	43.2	45.9	54.1	58.1	62.2
300	91.4	9.5	15.5	16.9	22.3	27.7	25.0	34.5	39.2	41.9	50.0	54.1	58.1
350	106.7	7.4	12.8	14.2	18.9	24.3	21.6	29.7	34.5	37.2	45.3	49.3	53.4
400	121.9	5.4	9.5	10.8	14.9	20.3	17.6	24.3	28.4	31.1	39.2	43.2	47.3
450	137.2	-	-	6.1	9.5	14.9	12.2	17.6	20.9	23.6	31.8	35.8	39.9
500	152.4	-	-	-	-	-	-	-	10.8	13.5	21.6	25.7	29.7

Effective tube length is determined by adding the horizontal length, twice the vertical height and 10 feet for every elbow of 45° or greater. Add five feet for each elbow less than 45°. Use the horizontal run and add the vertical rise of inclined systems to calculate the effective length.



CAPACITY CHART 4", 5", & 6" Systems

TRANS-FER SET-UP PROCEDURES

- The air filter extension tube and housing are connected to the blower inlet by a compression coupler (See Photos 1, 2 & 3). For extended filter life, if the pneumatic system is being operated in extremely dirty conditions, a longer extension tube can be used between the blower inlet and the air filter. BE SURE the air filter is positioned so that routine inspection and service can be performed.
- 2. Place the air filter element with pre-filter on the base and cover with the filter canister using the 3/8" wing nut and washer. The wing nut does not need to be more than finger tight (See Photos 2 & 3).



Photo 2

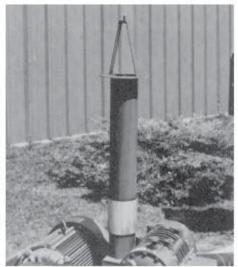


Photo 1

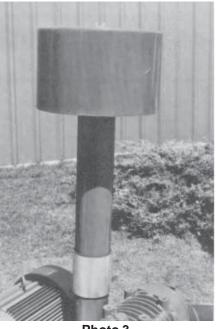
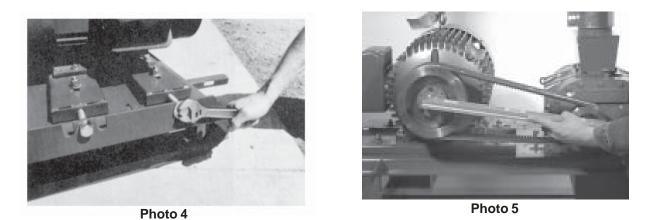


Photo 3

- 3. Check the motor name plate for the correct motor frame size. Then refer to Drawing 5 on page 11 to determine proper mounting holes and spacing of the motor mount channel. The spacing of the motor mount channels is changed by moving the channel to the proper notch cut into the main base of the blower platform. See Photo 4 on the next page and Drawing 5 on page 11. Finish by bolting the motor securely to the channels. Leave the four 1/2" carriage bolts, which hold the channels to the main frame, loose.
- 4. Place the 3B 8-15/16" pulley onto the motor shaft and align it with the blower pulley. See Photo 5 on the next page.

TRANS-FER SET-UP PROCEDURES (continued)



- 5. Place the matching set of BX-60 V-belts on the pulleys. Tighten the belts by evenly turning the cap screws clockwise. Belts should have 3/8" deflection at ten pounds pressure per belt. See Photo 4.
- 6. Keeping the motor in proper alignment is necessary and can be accomplished by using an open end wrench to turn the nut on the opposite motor mount channel, moving the channel either direction until proper alignment is achieved. Squaring up the motor can change the tension of the belts. Recheck alignment and tension. Finish Step 3 by tightening the four 1/2" bolts left loose earlier. See Photos 6 & 7.

Rotate the motor by hand and listen for any rubbing or knocking by either the motor or the blower. When the motor is wired, it must be checked for proper rotation.

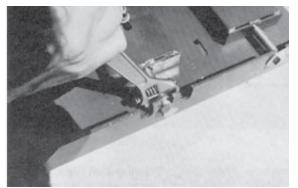


Photo 6



Photo 7

- 7. Check the oil level of the blower. The oil level should be at the center of the sight glass on Duroflow Blowers. For Roots Blowers, remove the lower level check plug. The oil level should be level to the check plug. Add DMC #MS5389 (Mobil Oil #SHC 630), if required, through the breather plug on top of the blower case. See Photo 8 on the next page. See the Maintenance Schedule on page 32 for the frequency of oil changes.
- 8. Using four (4) 5/16" x 1" carriage bolts, washers, and nuts, mount the motor to the airlock deck. Place the 3-1/4" OD A-Groove Pulley on to the motor shaft and align to pulley on reduction gear case. See Photo 9.



TRANS-FER SET-UP PROCEDURES (continued)



Photo 8



Photo 9

- 9. Next, place the A-31 belt onto the pulleys. Tighten the belt to its proper tension of 3/8" deflection at ten pounds of pressure by turning the 3/8" cap screw as shown in Photo 10. Tighten the four 5/16" nuts on the motor base. Replace the belt shield.
- 10. Check the oil level in the gearbox by removing the plug and noting if the oil is at this level. Add SAE 80-90 gear lubricant if required. See Photo 11.

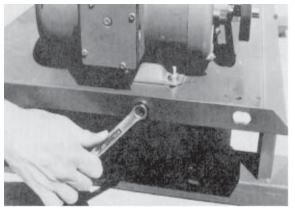


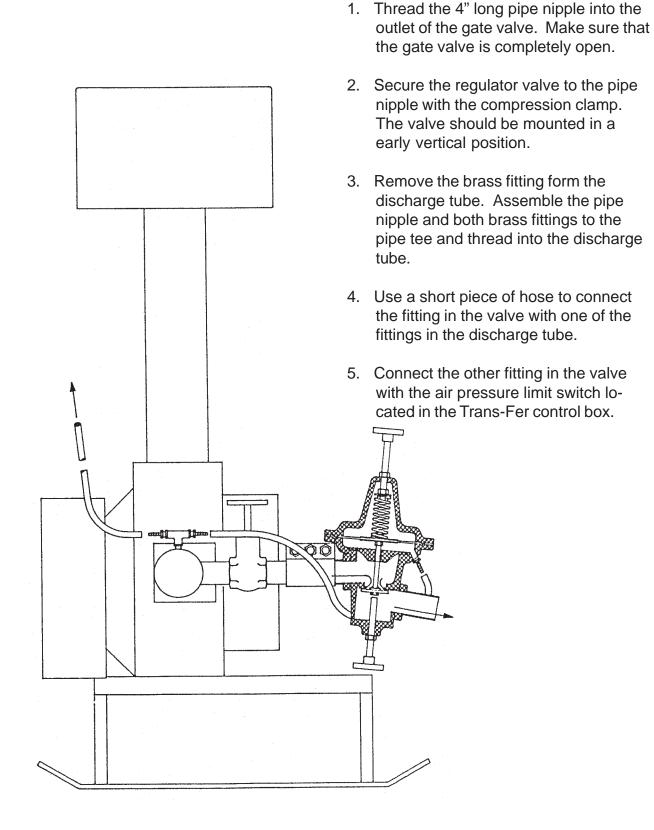
Photo 10



Photo 11

THE SET-UP OF THE TRANS-FER PNEUMATIC AIR SYSTEM IS NOW COMPLETE.

REGULATOR VALVE INSTALLATION



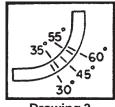


REGULATOR VALVE OPERATING INSTRUCTIONS

- 1. Loosen the locking nut on the top threaded rod and turn the handle counter-clockwise (loosen it) until no spring pressure can be felt on the valve diaphragm.
- 2. Loosen the locking nut on the bottom threaded rod and turn the handle clockwise until it stops. The valve is now completely closed.
- 3. Loosen the bottom threaded rod 2 complete turns and lock in place with the locking nut. This sets the maximum amount that the valve can open.
- 4. Start the air system and manually set the feed rate at the expected medium rate of discharge from the dryer.
- 5. Turn the top adjusting rod clockwise (tighten) until air starts to be discharged from the valve.
- Continue to slowly tighten the top rod and increase the volume of discharged air until the grain is being discharged at a low enough rate to prevent grain damage. Adjust the valve a small amount and then wait for the system to respond to that change before making further adjustments.
- 7. If the line pressure cycles between too high and too low, then the amount that the valve can open should be decreased. Loosen the locking nut on the bottom adjusting rod and tighten the rod in small increments until the oscillation stops.
- 8. Check the valve operation by setting the feed rate from the dryer to the lowest expected discharge rate.
- 9. As the line pressure decreases due to the lower feed rate, the valve will open and discharge more air to slow the velocity of the grain.
- 10. If surging occurs then more air is required. Turn the top adjusting rod counterclockwise (loosen) to decrease the amount of air being discharged.
- 11. If the grain velocity is too fast, then turn the top adjusting rod clockwise (tighten) to increase the volume of discharged air and slow the grain velocity.
- 12. Secure the position of the top and bottom rods with the locking nuts after the valve has been adjusted.
- 13. Use the manual gate valve to clean a plugged system to avoid having to readjust the compensating valve.

TRANS-FER INSTALLATION INSTRUCTIONS

- 1. Determine the most convenient location for the airlock and blower. Take into consideration the direction of the prevailing winds. It is important to locate the blower in as clean an environment as possible. This greatly reduces the maintenance requirements on the air filter system. The distance between the blower and the airlock should be as short and straight as possible. This keeps airflow restrictions to a minimum. When the distance between the airlock and blower is over 10 feet, it is better to use galvanized pipe with short flex hose on the ends to couple the units together.
- 2. The noise level of the blower unit can be reduced by placing the unit behind a wall, barrier, or in a small building. If this is done, make sure that the building has adequate ventilation for both air intake and cooling of the blower and motor.
- 3. The grain discharge chute on the airlock is assembled at the factory so that grain movement is at 90° to the length of the skid. This orientation can be changed by removing the mounting hardware at the base of the airlock and rotating the discharge chute to the preferred direction. Be sure to keep the gasket in place between the skid and the discharge chute. Note that the airlock itself is sealed to the skid surface and does not need to be moved to redirect the discharge chute. NOTE: A minimum of 10 feet is needed between the airlock discharge and the first elbow in the system.
- 4. Determine the best routing of the galvanized steel pipe from the airlock to the storage areas. Use galvanized elbows for changing the grain direction. This will give better performance and longer life than flexhose.
- 5. Bolt the tube mounting brackets to the desired location using at least two (2) mounting brackets on the vertical wall and two (2) on the roof of the grain bin. The mounting brackets can be formed to match existing hole patterns in the bin. See Trans-Fer Accessories on Pages 15-16.
- Determine the number and degree of arc required in the elbows. The 90° and 60° elbows are standard - different lengths of arc can be cut from these standard elbows. NOTE: A MINIMUM OF EIGHT (8) FEET BETWEEN ELBOWS IS REQUIRED FOR PROPER OPERA-TION.



- 7. Cut the steel tubing to the required length and fasten it together with Compression couplings. The ends must be cut square to fit properly. Make sure that the stainless steel gasket protecting sleeve is placed over the joint before tightening the coupler. Tighten the three bolts on the coupler evenly or until the coupler flanges butt together. See Drawing 6 on Page 15.
- 8. The steel tubing can be laid underground, on top of the ground or placed on blocks. If placed on blocks, the tubing must be supported every 15 feet. If placed underground, the tube should enter and exit the ground at a 45° angle and be coated with a protective tar to prevent corrosion.



TRANS-FER INSTALLATION INSTRUCTIONS (continued)

- 9. Measure the distance between the airlock and blower. Use flex hose or a combination of flex hose and galvanized tubing to connect the units together. Note that the grain discharge chute on the airlock is tapered and that grain can discharge in either direction.
- 10. Determine the length of the flex hose required to reach from the airlock to the steel tubing going to the storage area. This should be kept to a minimum and not used for changing the direction of the grain flow. Cut the length of the flex hose needed, secure the end of the hose to the airlock by use of a 2-bolt clamp. The other end may be attached either directly to the galvanized tube or to a barbed female camlock with a 2-bolt clamp. See Drawing 7 on Page 16.
- 11. Install all tubing required to transfer grain to your storage areas. See Drawing 6 and 7 on Pages 15-16.
- 12. To attach the deadhead deflector to the tubing, simply slide the deadhead deflector onto the tubing and tighten the clamp provided. Flexible galvanized tubing can be attached to the deadhead downspout if needed. See Drawing 7 on Page 16. If a cyclone is used, an elbow and mounting brackets are needed.
- 13. Select a location to mount the electrical control box that is accessible and easily reached should shut down of unit be necessary. It should be close enough to the blower to run the 30 feet of rubber pressure hose between the blower and the control box. Otherwise, a longer length of hose must be ordered.

TRANS-FER OPERATION GUIDELINES

- 1. Be aware of the quality of grain that is entering and leaving the Trans-Fer system. Grain damage can occur with any pneumatic system unless care is taken to adjust the velocity of the grain. This can be done by opening or closing the outlet gate valve on the blower outlet of the Trans-Fer. Opening the valve will let air out of the tubing system which will slow the velocity of the air and grain in the tubing system. A recommended procedure is to open the valve slowly until the line pressure begins to surge and then to close it by 1/2 turn. This will provide the slowest possible grain velocity for any tubing system. This procedure for adjusting the air velocity should be repeated for each different tubing layout and capacity change. The use of a sight glass is recommended to provide a visual observation of the grain velocity.
- 2. If the tubing system should become plugged, place the air pressure limit switch to the "Off" position, switch the airlock and auxiliary equipment to "Off" and the blower to "Manual". Note the opening of the outlet gate valve, then open it completely so all the air is exhausted when the blower is started.



!!CAUTION!! Do not stand next to the exhausted air.

Push the start button and the blower will start. Slowly close the outlet gate valve until the grain starts moving and clears the tube. Adjust the valve as explained in Step 1. It should be the same as noted before adjusting. Operate the airlock and auxiliary equipment in "Manual" until all grain is out of the system.

- 3. The air pressure limit switch should always be in the "On" position during routine operation to provide protection to the blower against overload conditions. The air pressure limit is set at the factory to shut down the system at 10 p.s.i. If adjustment is needed, rotate the adjusting screw counterclockwise to lower the pressure limit, or clockwise to increase the pressure limit. A one-half (1/2) turn of the screw will change the pressure limit one (1) p.s.i. NOTE: If the pressure limit is set below five (5) p.s.i., the switch may not reset and allow the Trans-Fer to run. See Drawing 2.
- 4. The air filter element should be inspected daily and cleaned when required. Both the poly-foam pre-filter and the filter element can be cleaned by blowing air through them or washing them with mild detergent and water. A restricted air filter will cause a system to become plugged. It should always be inspected whenever plugging occurs.
 - 5. The airlock is provided with a housing that incorporates grain shear protection. This housing can be removed if desired, but another form of grain shear protection should be provided to prevent grain damage.



TRANS-FER OPERATION GUIDELINES (continued)

- 6. GUIDELINES FOR OPERATION OF AIR SYSTEMS:
 - a) Grain in a Trans-Fer system running at full capacity will move at about 60% of the air speed. A system operating at low capacities will move grain at 80-90% of the air speed.
 - b) Decreasing the amount of air in the system (opening the hand gate valve) will cause the grain to move slower and also cause the air pressure to rise. (Essentially, the grain is causing the air to "pile up".)
 - c) Increasing the air in a system (closing the gate valve) will increase the grain velocity and lower the pressure.

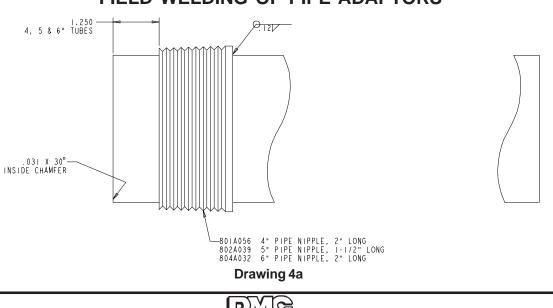
d) TYPICAL RUNNING CONDITIONS ARE:

A 4" system running full with 15 HP will have a system pressure of 4-5 psi. A 5" system running full with 30 HP will have a system pressure of 5-6 psi. A 5" system running full with 40 HP will have a system pressure of 6-7 psi.

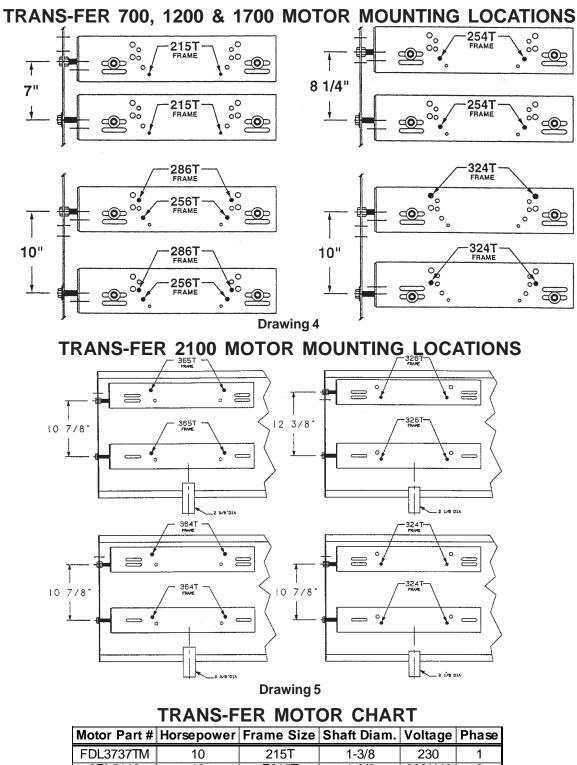
7. RECOMMENDATIONS FOR OFF-SEASON STORAGE:

The blower and airlock have precision machined components and must be protected to prevent corrosion and rust from forming on the blower lobes and airlock vanes. These parts should be coated with motor oil after each drying season. (Spray lubricants such as WD-40 do not usually provide adequate protection.)

Both the airlock and blower skids should be stored in a dry building with all the openings covered or plugged. If it is not possible to remove the skids from the bin sites, then they should be carefully protected from the weather and the piping system disconnected from the blower and airlock. This is important to prevent condensation from collecting in the airlock and blower. NOTE: The feed-in auger is not rain tight and will allow water to collect in the airlock. It should be covered when not in operation.



FIELD WELDING OF PIPE ADAPTORS

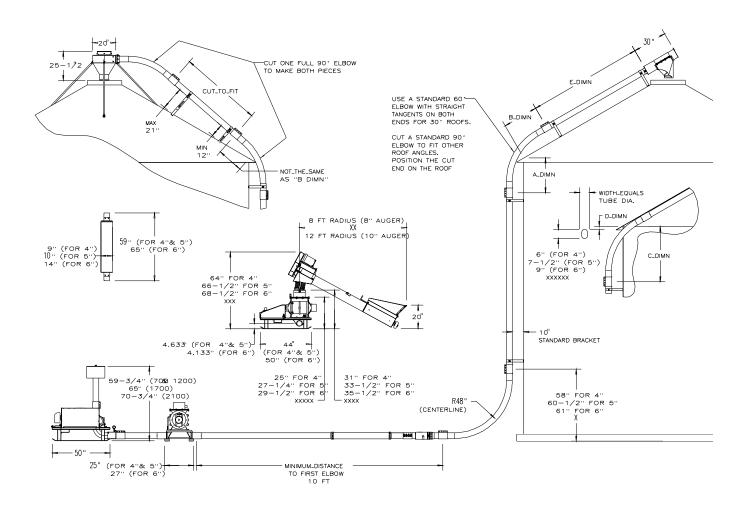


Motor Part #	Horsepower	Frame Size	Shaft Diam.	Voltage	Phase
FDL3737TM	10	215T	1-3/8	230	1
3EL5119	10	F215T	1-3/8	230/440	3
3EL5132	15	256T	1-5/8	230	1
M2333T	15	254T	1-5/8	230/440	3
M2334T	20	s56T	1-5/8	230/440	3
M4104T	30	286T	1-7/8	230/440	3
M4110T	40	324T	2-1/8	230/440	3
M4115T	50	326T	2-1/8	230/440	3
M4314T	60	364T	2-3/8	230/440	3
M4316T	75	365T	2-3/8	230/440	3



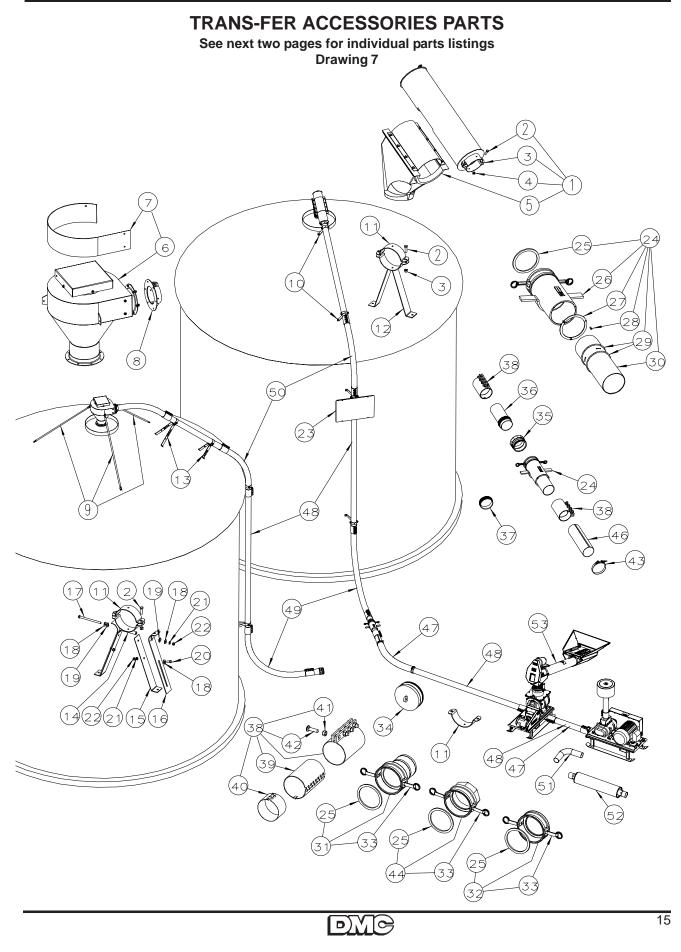
TRANS-FER DIMENSIONS & ACCESSORIES

Drawing 6



* Add 10" to E dimension if roof elbow has been cut from	a Standard 90° Elbow.
--	-----------------------

SYSTEM	ROOF						REFERE	NCE DIME	INSION			
SIZE	ANGLE	A	В	C	D				E			
						18' DIA	21' DIA	24' DIA	27' DIA 30' DIA	33' DIA 36' DIA	42' DIA	48' DIA
	25	31"	23"	47 1/2"	5 3/4"	7' 1"	8' 9"	10' 5"	12' 1" 13' 9"	15' 5" 17' 1"	20' 5"	23' 9"
4"	30	29"	29"	46 *	3 1/2"	7' 1"	8' 9"	10' 5"	12' 1" 13' 9"	15' 5" 17' 1"	20' 5"	23' 9"
	35	27*	19"	45"	2 1/2"	8' 6"	10' 2"	11' 10"	13' 6" 15' 2"	16' 10" 18' 6"	21' 10"	25' 2"
	25	32 1/2***	22 1/2"	50"	4 1/2"	7'	8' 9"	10' 6	12' 3" 14'	15' 9" 17' 6"	21'	24' 6"
5"	30	30 1/2"	30 1/2"	49"	3 1/4"	6' 10"	8' 7"	10' 4"	12' 1" 13' 10"	15' 7" 17' 4"	20' 10"	24' 4"
	35	28 1/2*	18 1/2"	48"	2 1/4"	8' 6"	10' 3"	12'	13' 9" 15' 6"	17' 3" 19'	22' 6"	26'
	25	32 1/4"	22 1/4"	51"	4 1/2"	7' 3"	9' 1"	10' 11"	12' 9" 14' 7"	16' 5" 18' 3"	21' 11"	25' 7"
6"	30	30 1/4"	30"	50"	3"	7' 1"	8' 11"	10' 9"	12' 7" 14' 5"	16' 3" 18' 1"	21' 9"	25' 5"
	35	28 1/4"	18"	49"	2*	8'8"	10' 6"	12' 4"	14' 2" 16'	17' 10" 19' 9"	22' 4"	27



(CE) Parts List

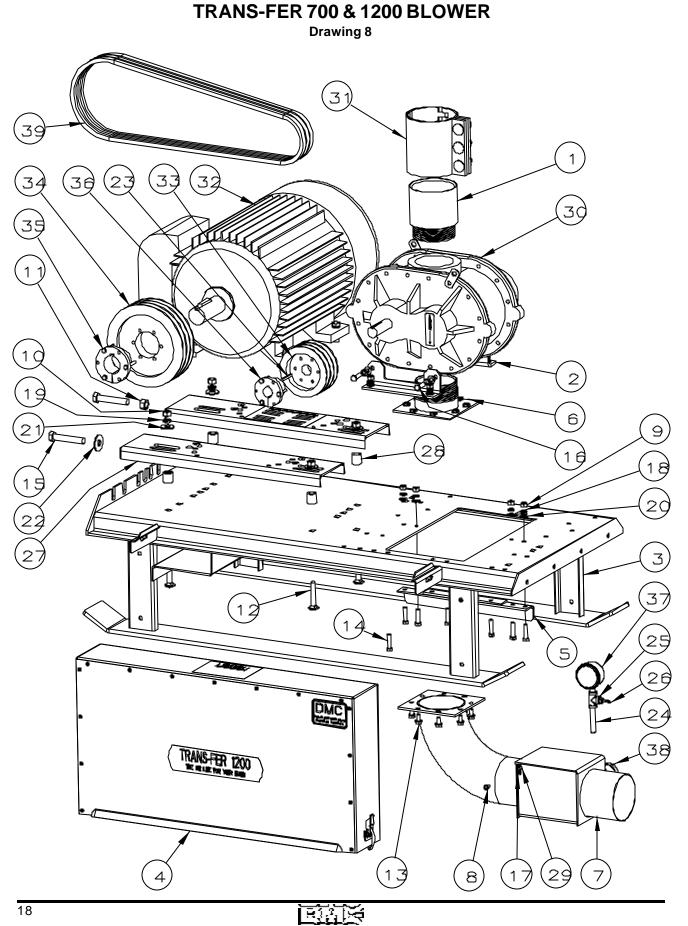
ACCESSORY PARTS LIST (continued on next page)

Description 027 DEADHEAD DEFLECTOR 027 DEADHEAD DEFLECTOR
ASSEMBLY
BOLT- HEX,STD THRD-GRD 2
3/8-16 UNC X 1-1/4 PLTD
765 NUT- HEX, 3/8-16 UNC
FINISHED, PLTD, GRADE 2
D28 DEADHEAD DEFLECTOR TUBE ZINC PLATED
04 SPOUT- PLASTIC, 60 DEGREE
031 CYCLONE
ASSEMBLY
267 WEAR STRIP- CYCLONE,
ABRASION RESISTING STEEL
054 CYCLONE ADAPTOR
D37 CYCLONE MOUNTING BRACKET BUNDLE OF 3 LEGS
123 TUBE SUPPORT BRACKET
ASSEMBLY
DOO3 CLAMP- BAND
(GALVANIZED)
124 TUBE SUPPORT BRACKET
ZINC PLATED
125 TUBE SUPPORT BRACKET
ASSEMBLY (ADJUSTABLE)
CLAMP-BAND, W/TUBE
ZINC PLTD(ADJ TUBE SPRT)
171 SUPPORT – LEG
INSIDE
172 SUPPORT- LEG
OUTSIDE
BOLT- HEX,STD THRD-GRD 2
5/16-18 UNC X 5", PLTD
364 WASHER— FLAT, STANDARD
5/16, PLTD
WASHER- CUPPED (SPECIAL)
7/8 OD X 11/32 ID X 3/16 THICI
BOLT- HEX,STD THRD-GRD 2
5/16-18 UNC X 3/4, PLTD
790 WASHER- LOCK, REGULAR
5/16, PLTD
764 NUT- HEX, 5/16-18 UNC
FINISHED, PLTD, GRADE 2
023 AIR SYSTEM SIGN
WITH MOUNTING BRACKETS
157 TELESCOPING FEMALE CAMLOCK
ASSEMBLY
I11 GASKET
FOR FEMALE CAMLOCKS AND CAPS
160 TELESCOPING CAMLOCK BODY
WELDMENT
159 RING-
TELESCOPING CAMLOCK
532 SCREW- MACH, FILLIST, HD
#10-32 UNC X 1/2, PLTD
50 O—RING
296 TUBE- W/STOP, WELDMENT
200 - 700 - 77000, MELDWENT



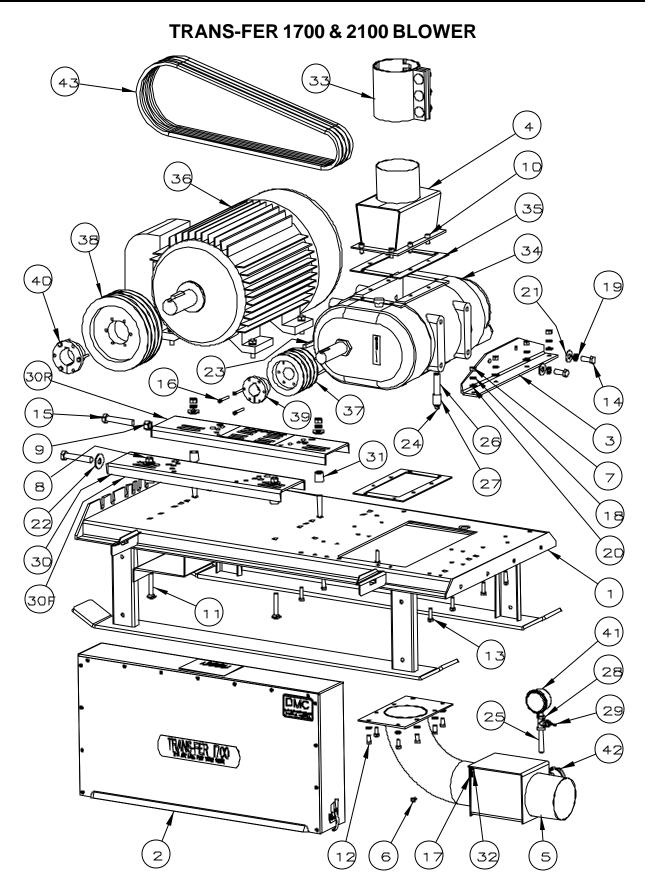
ACCESSORY PARTS LIST (continued from previous page)

<u>inaex</u>		DRY PART 1200 (5")	<u> 1700 (5")</u>	2100 (6")	Description
31	801A029	802A020	802A020	804A021	FEMALE CAMLOCK
					(MACHINED)
32	801A030	8024021	8024021	804A020	FEMALE CAMLOCK CAP
33	801A201	801A201	801A201	804A112	CAMLOCK LEVER- RING & PIN
					FOR FEMALE CAMLOCK & CAP
34	801A028	802A019	802A019	80AA019	MALE CAMLOCK PLUG
35	801A027	802A018	802A018	804A018	MALE CAMLOCK
					(MACHINED)
36	801A054	802A026	802A026	804A030	THREADED ADAPTOR
37	801A056	802A039	802A039	804A032	PIPE NIPPLE
38	80A026	802A017	802A017		- COMPRESSION COUPLER 3 BOLT
-	801A211	802A107	802A107		
		,	,		4 BOLT
t				- 804A015	
				0077010	5 BOLT
39	801A158	802A075	802A075		- COUPLER RUBBER CASKET
	GUINIDO	GG2A073	GG2A07G	·	3 BOLT
F	801A212	802A108	802A108		- COUPLER RUBBER CASKET
	00 1AZ 1Z	302A100	302A108		4 BOLT
		+		- 80A016	COUPLER RUBBER CASKET
					5 BOLT
40	801A157	8024074	802A074	804A017	COUPLER GASKET PROTECTOR
41	1FH0769	1FH0769	1FH0769	1FH0769	NUT- HEX, 5/8-11 UNC
					FINISHED, PLTD, GRADE 2
42	2FH5906	2FH5906	2FH5906	2FH5906	BOLT- CAR,STD THRD-GRD 5
					5/8-11 UNC X 2-1/4, P
43	MS0365	MS0366	MS0366	M\$5387	HOSE CLAMP
					HEAVY DUTY T-BOLT
44	8011236	8021121	8021121	8041125	CAMLOCK-"D" ALUM, COUPLER
					(MACHINED)
46	801A202	802A094	802A094	8044057	SIGHT GLASS
					CLEAR TUBE W/COPPER STRIP
47	M\$0047	MS0061	MS0061	MS5386	FLEXIBLE RUBBER HOSE
	14100017	11120001	11130001	11120020	(ORDER PER FOOT)
48	MS0214	MS0213	MS0213	MS0212	14 GA GALVANIZED TUBING
· -					(20 FT LONG)
F	MS0215	MS0217	MS0217	MS0221	14 GA GALVANIZED TUBING
					(40 FT LONG)
49	801A025	802A015	802A015	804A014	90' ELBOW
	33	002/010	332,010	66 MG I T	11 GA GALV, 4 FT R.
50	8011235	8021120	8021120	8041124	60' ELBOW
					11 GA GALV, 4 FT R.
51	8011281	8021203	8021203	8041164	90. ELBOW (SMALL RADIUS)
	5511201	5521200	5521200	5511107	FOR USE ON AIR SIDE LINES ONLY
52	801B034	802B009	802B009	804B001	SILENCER
<u>.</u>		0020009	0020009		
57	801N004	801N004	801N004	801N004	8" X 8' FEED-IN AUGER
53					WITH HOPPER
53					
53		+	+	- 804N015	10" X 12' FEED-IN AUGER
53			+	- 804N015	10" X 12" FEED-IN AUGER WITH HOPPER
53	801N017	801N017	801N017	- 804N015	



TRANS-FER 700 & 1200 BLOWER PARTS LIST

NDEX	PART	DESCRIPTION	QTY	INDEX	PART	DESCRIPTION	Q
1	8011246	BLOWER INLET - 5" THREADED WELDMENT (700 & 1200)	1	25	4FH0581	FITTING- TEE, PIPE, 1/4 FPT, (GALV)	
2	8011247	ANGLE- BLOWER, (T.F. 700 & 1200)	2	26	4FH0971	FIT- HOSE BARB, 1/4 X 1/4 MPT, (BRASS)	
3	8011250	SKID- BLOWER, WELDMENT (700,1200,1700,2100)	1	27	801A113	MOTOR MOUNT- BLOWER WELDMENT (700 TO 1700)	
4	8011256	SHIELD- BLOWER, ASSEMBLY (700,1200,1700,210	1 (0	28	801A116	SPACER- MOTOR MOUNT	
5	8021173	ANGLE- BLOWER OUTLET, WELDMENT, (T.F.700 AND 1200)	1	29	8011315	ROD- CHECK VALVE PILOT T F 700	
6	8021181	ADAPTOR- BLOWER OUTLET, WELDMENT, (T.F.700 & 1200)	1		801A190	ROD- CHECK VALVE PILOT T F 1200, 1700	
7	8011284	ELBOW- BLOWER OUTLET, WELDMENT, (T.F. 700, 4'')	1	30	801A196	BLOWER- (T.F. 700 & 1200) ASSEMBLY/STORAGE(MF 8011276)	
	8021184	ELBOW- BLOWER OUTLET, WELDMENT, (T.F. 1200, 5'')	1	31	802A017	COUPLER- COMPRESSION, 5" 3 BOLT, W/GSKT & PROTECTOR	
8	1EL2003	INSULATOR- SCREW	2	32	FDL3737TM (FOR 700)	MOTOR- 10HP, 1PH 230V, TEFC, (1-3/8" SHAFT)	
9	1FH07 65	NUT- HEX, 3/8-16 UNC FINISHED, PLTD, GRADE 2	8		3EL5119 (FOR 700)	MOTOR- 10HP, 3PH 230/440V, TEFC, (1-3/8" SHAFT)	
10	1FH0767	NUT- HEX, 1/2-13 UNC FINISHED, PLTD. GRADE 2	4		3EL5069 (FOR 700)	MOTOR- 15HP, 1PH 230V, TEFC, (1-5/8" SHAFT)	
11	1FH0769	NUT- HEX, 5/8-11 UNC FINISHED, PLTD, GRADE 2	1		M2333T (FOR 700)	MOTOR- 15HP, 3PH 230/440V, TEFC, (1-5/8" SHAFT)	
12	2FH0677	BOLT- CAR,STD THRD-GRD 2 1/2-13 UNC X 2-1/2, PLTD	4		M2334T (FOR 700 OR 1200)	MOTOR- 20HP, 3PH 230/440V, TEFC, (1-5/8" SHAFT)	
13	2FH0853	BOLT- HEX,STD THRD-GRD 2 3/8-16 UNC X 3/4, PLTD	8		M4104T (FOR 1200)	MOTOR- 30HP, 3PH 230/440V, TEFC,	
14	2FH0857	BOLT- HEX,STD THRD-GRD 2 3/8-16 UNC X 1-1/2,PLTD	8	33	PT0664 (FOR 700)	PULLEY-(ARM) QD STYLE 7.75'' OD X SK BUSH-3AB	
15	2FH1043	BOLT- HEX,STD THRD-GRD 2 5/8-11 UNC X 3-1/2, PLTD	2		PT0602 (FOR 1200)	PULLEY-(SOLID) QD STYLE 5.50'' OD X SD BUSH-3AB	
16	2FH 5293	BOLT- HEX,STD THRD-GRD 5 3/8-16 UNC X 1-1/4.PLTD	4	34	PT0666	PULLEY- (ARM) QD STYLE 8.95'' OD X SK BUSH-3AB	
17	3FH0712	PIN-COTTER, STANDARD	1	35	PT0778	BUSHING- (QD STYLE) SK, 1-3/8'' BORE	
18	3FH0791	WASHER- LOCK, REGULAR 3/8", PLTD	20		PT0780	BUSHING- (QD STYLE) SK, 1-5/8'' BORE	
19	3FH0793	WASHER- LOCK, REGULAR 1/2'', PLTD	8		PT0782	BUSHING- (QD STYLE) SK, 1-7/8'' BORE	
20	3FH0865	WASHER- FLAT, STANDARD 3/8'', PLTD	12	36	PT0772 (FOR 700)	BUSHING- (QD STYLE) SK, 1-1/8'' BORE	
21	3FH0867	WASHER- FLAT, STANDARD 1/2", PLTD.	4		PT0794 (FOR 1200)	BUSHING- (QD STYLE) SD, 1-1/8'' BORE	
22	3FH0869	WASHER- FLAT, STANDARD 5/8", PLTD.	1	37	PT1127	GAUGE- (PRESSURE) 2-1/2" 0 TO 15 PSI	
23	3FH 1 0 3 0	KEY- SQUARE 1/4" X 2"	1	38	PT1132	VALVE— (GATE) 1—1/2 NPT, NONRISE STEM	
24	4FH0509	FITTING- NIPPLE, PIPE 1/4 X 3'', GALV	1	39	PT0535	BELT-V, (COGGED) BX60 .66" TOP, .41" THICK	



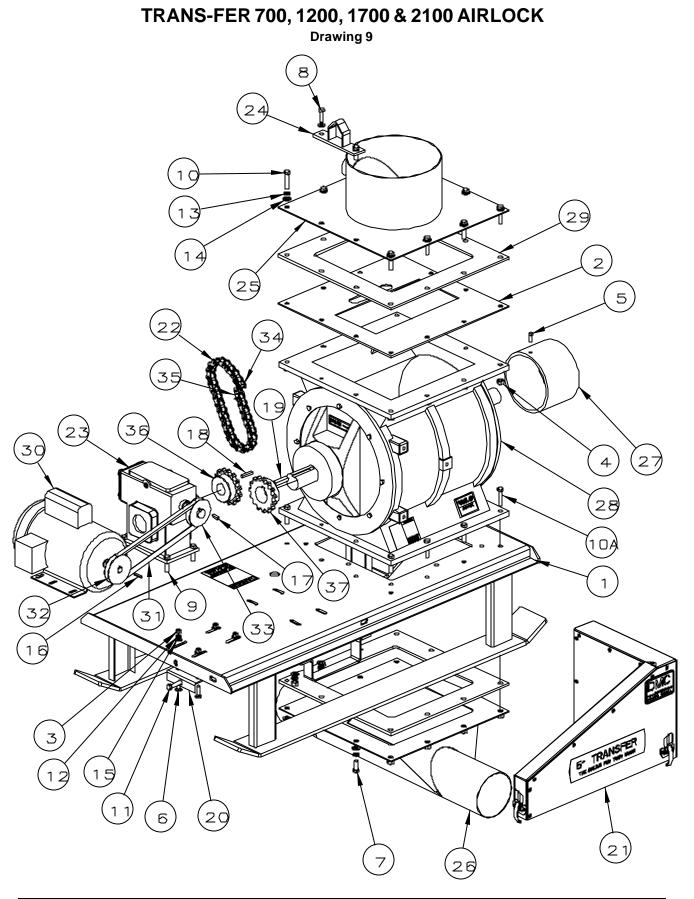
Trans-Fer

(CE) Parts List

TRANS-FER 1700 & 2100 BLOWER - Parts List

		TRANS-FER 1700 8	* ~ ! !				
INDEX	PART	DESCRIPTION	ατγ	INDEX	PART	DESCRIPTION	άΤΥ
1	B011250	SKID- BLOWER, WELDMENT (700,1200,1700,2100	1	30	801A113	MOTOR MOUNT- BLOWER WELDMENT (700 TO 1700)	2
2	B011256	SHIELD- BLOWER, ASSEMBLY (700,1200,1700,2100	1	30F	804A066	MOTOR MOUNT- BLOWER WELDMENT (2100) (FRONT)	1
3	B021127	ANGLE- BLOWER, (4508) (T.F. 1700)	2	30R	804A068	MOTOR MOUNT- BLOWER	1
	B041173	BLOWER MOUNT- WELDMENT (T.F. 2100)	2	31	B01A116	WELDMENT (2100) (REAR) SPACER- NOTOR NOUNT	4
4	B021130	BLOWER INLET- 5"	1	32	B01A190	ROD- CHECK VALVE PIVOT	1
_	B041144	WELDMENT (1700) BLOWER INLET- 6"	1		8041203	T.F. 1200, 1700 ROD- CHECK VALVE PIVOT T.F. 2100	1
5	B0211B5	WELDMENT (2100) ELBOW- BLOWER OUTLET,	1	33	802A017	COUPLER- COMPRESSION, 5" 3 BOLT, W/GSKT & PROTECTOR	1
	B041166	WELDMENT, (T.F. 1700, 5"0D) ELBOW- BLOWER OUTLET,	1		804A015	COUPLER- COMPRESSION, 6" 5 BOLT, W/GSKT & PROTECTOR	1
6	1EL2003	WELDMENT, (T.F. 2100, 6") INSULATOR- SCREW .26 ID X .51 FLG X .75 L	2	34	802A056	BLOWER- (TF. 1700) ASSEMBLY/STORAGE(MF 8021161)	1
7	1FH0765	NUT- HEX, 3/8-16 UNC FINISHED, PLTD, GRADE 2	8		B04A012	BLOWER- (TF. 2100) ASSEMBLY \STORAGE (MF 8041156)	1
8	1FH0767	NUT- HEX, 1/2-13 UNC FINISHED, PLTD, GRADE 2	4	35	802B006	GASKET— TF1700/DUR0FL0W	2
9	1FH0769	NUT- HEX, 5/B-11 UNC FINISHED, PLTD, GRADE 2	1		804A114	GASKET- TF 2100/DUROFLOW	2
10	2FH0444	SCREW- CAP, SOCKET HEAD 3/B-16 UNC X 3/4, GRD 2	8	36	M2334T (FOR 1700)	MOTOR- 20HP, 3PH 230/440V, TEFC,	1
11	2FH0677	BOLT- CAR,STD THRD-GRD 2 1/2-13 UNC X 2-1/2, PLTD	4		M4104T (FOR 1700)	MOTOR- 30HP, 3PH 230/440V, TEFC,	1
12	2FH0853	BOLT- HEX,STD THRD-GRD 2 3/8-16 UNC X 3/4, PLTD	8		M4110T (FOR 1700& 2100)	MOTOR- 40HP, 3PH 230/440V, TEFC,	1
13	2FH0856	BOLT- HEX,STD THRD-GRD 2 3/B-16 UNC X 1-1/4,PLTD	8		M4115T (FOR 2100)	MOTOR- 50HP, 3PH 230/440V, TEFC,	1
14	2FH0904	BOLT- HEX,STD THRD-GRD 2 1/2-13 UNC X 1-1/4,PLTD	4		M4314T (FOR 2100)	MOTOR- 60HP, 3PH 230/440V, TEFC,	1
15	2FH1043	BOLT- HEX,STD THRD-GRD 2 5/B-11 UNC X 3-1/2, PLTD	2		M4316T (FOR 2100)	MOTOR- 75HP, 3PH 230/440V, TEFC,	1
16	2FH5055	SCREW- CAP, SOCKET HEAD 1-4-20 UNC X $1-3/4$,GRDB	3	37	PT0736 (1700 & 40HP 2100		1
17	3FH0712	PIN- COTTER, STANDARD 1/B" X 3/4" LONG	1		PT0668 (FOR 50 & 60HP 210		1
18	3FH0791	WASHER- LOCK, REGULAR 3/B", PLTD	16	- 70	PT0669 (FOR 75HP 2100)	PULLEY-(SOLID) QD STYLE 4.45" OD X SD BUSH-64B	1
19	3FH0793	WASHER- LOCK, REGULAR 1/2", PLTD	12	38	PT0737 (1700 & 40HP 2100 PT0671	PULLEY- (ARM) QD STYLE) 8.85" OD X SK BUSH-4AB PULLEY- (WEB) QD STYLE	1
20	3FH0865	WASHER- FLAT, STANDARD 3/B", PLTD	8		(FOR 50 & 60HP 210 PT0672		1
21	3FH0867	WASHER- FLAT, STANDARD 1/2", PLTD.	8	39	(FOR 75HP 2100) PT0779	B.45" OD X SF BUSH-6AB BUSHING- (QD STYLE)	1
22	3FH0869	WASHER- FLAT, STANDARD 5/8", PLTD.	1	40	PT0780	SD, 1-7/16" BORE, BUSHING- (QD STYLE)	1
23	3FH1040	KEY- SQUARE, 3/B" X 1-3/4"	1		PT0782	SK, 1-5/8" BORE BUSHING- (QD STYLE)	1
24	4FH0295	FIT- PLUG, PIPE (SQUARE) 3/B, SCH BO	1	1	PT0784	SK, 1-7/8" BORE BUSHING- (QD STYLE)	1
25	4FH0509	FIT- NIPPLE, PIPE 1/4 X 3", GALV	1		PT0774	SK, 2-1/8" BORE BUSHING- (QD STYLE)	1
26	4FH0511	FIT- NIPPLE, PIPE	1		PT0786	SF, 2-1/8" BORE BUSHING- (QD STYLE)	1
27	4FH0565	3/B X 3, (SCH BO) FIT- COUPLER, PIPE 3/B FPT (SCH BO)	1	41	PT1127	SF, 2-3/8" BORE GAUGE- (PRESSURE) 2-1/2"	1
28	4FH0581	FIT- TEE, PIPE, 1/4 FPT, (GALN)	1	42	PT1132	0 TO 15 PSI VALVE- (GATE)	1
29	4FH0971	FIT- HOSE BARB, 1/4 X 1/4 MPT, (BRASS)	1	43	PT0535	1-1/2 NPT, NONRISE STEM BELT-V, (COGGED) BX60	A/R
					-	.66" TOP, .41" THICK	21





TRANS-FER 700, 1200, 1700 & 2100 AIRLOCK

INDEX	PART	DESCRIPTION	ירם	INDEX	PART	DESCRIPTION	אדם
1	8011265	SKID- AIRLOCK WELDMENT (700.1200.1700)	1	22	80 1A203	CHAIN- ROLLER(4"AIRLOCK) (M/F PT1020, 20.25"LONG)	1
F	8041150	SKID- AIRLOCK WELDMENT (21DD)	٦	 	801A148	CHAIN- ROLLER(3"AIRLOCK)	1
2	8011292	SHEAR BRACKET & WIPER-	1	 	804A033	(M/F PT1020, 21.75"LONG) CHAIN- ROLLER(G"AIRLOCK)	1
F	8021208	ASSEMBLY LI.F. 7003 SHEAR BRACKET & WIPER- ASSEMBLY (T.F. 1200 & 1700)	1	23	801A151	(M/F PT1020, 24.75"LONG) WORM GEAR DRIVE BOX-	1
F	8041176	SHEAR BRACKET & WIPER- ASSEMBLY (T.F. 2100. 40 HP)	1	24	501A015	(WINSMITH #926-DT) LIFT HOOK- 4" AIRLOCK	1
	8041177	SHEAR BRACKET & WIPER- ASSEMBLY (T.F.2100, 50,60,75HP)	1	∎│ ⊢	802A037	WELDNENT	1
3	1FHD764	NUT- HEX. 5/16-18 UNC FINISHED. PLTD. GRADE 2	4	 	504A042	WELDMENT	1
4	1FHD765	NUT- HEX 3/8-16 UNC FINISHED. PLTD. GRADE 2	20	25	80 1A020	WELDMENT INTAKE SPOUT- 4" AIRLOCK	1
5	2FHD6D4	SCREW- SET SQUARE HEAD	٦		502A039	WELDMENT (T.F. 700) INTAKE SPOUT- 5" AIRLOCK	1
6	2FHD646	BOLT-CAR STD THRD-GRD 2 5/16-18 UNC X 1. PLTD	4	▋│ ├	B04A044	WELDMENT (T.F. 1200, 1700) INTAKE SPOUT- 6" AIRLOCK	1
7	2FHD855	BOLT- HEX STD THRD-GRD 2 3/8-16 UNC X 1. PLTD	4		804A 104	WELDMENT (T.F. 2100, 40 HP) INTAKE SPOUT- 6" AIRLOCK	1
8	2FHD859	BOLT- HEX STD THRD-GRD 2 3/8-16 UNC X 2.PLTD	2	20	501A130	WELDMENT(T.F.2100, 30,80,75HP)	1
	2FHD856	(T.F. 700) BOLT- HEX STD THRD-GRD 2 3/8-16 UNC X 1-1/4.PLTD	4		8024061	WELDMENT (T.F. 700) ADAPTOR- DISCHARGE, 3" WELDMENT (T.F. 1200, 1700)	1
_	2FHD855	(T.F. 1200 & 1700) BOLT- HEX STD THRD-GRD 2	8		504A047	ADAPTOR- DISCHARGE, 6" WELDMENT (T.F. 2100)	1
		3/8-16 UNC X 1. PLTD נד.F. 2100)		27	502A066	SHIELD- SHAFT, 4'',5'' & 6" AIRLOCK	1
9	2FHD857	BOLT- HEX STD THRD-GRD 2 3/8-16 UNC X 1-1/2.PLTD	4	25	501A214	AIRLOCK- 5" (TF. 700) (SMOOT #FT-12, 1-1/2")	1
	2FHD856	(T.F. 700. 1200. 1700) BOLT- HEX STD THRD-GRD 2 3/8-16 UNC X 1-1/4.PLTD	4		502A071	AIRLOCK- 5" (TF. 1200, 1700 (5M00T #FT-14, 1-3/4") AIRLOCK- 6" (TF. 2100)	01
10	2FHD858	(T.F. 2100) BOLT- HEX STD THRD-GRD 2	8	29	8010008	(SMOOT #FT-16, 1-3/4") GASKET- (FOR FT-12)	2
		3/8-16 UNC X 1-3/4.PLTD (T.F. 700. 1200. 1700. 2100			802008	T.F. 700/SMOOT GASKET- (FOR FT-14)	2
1DA	2FHD858	BOLT- HEX STD THRD-GRD 2 3/8-16 UNC X 1-3/4.PLTD (T.F. 700. 1200. 1700)	8		504A113	T.F. 1200, 1700/SMOOT GASKET- (FOR FT-18)	2
	2FHD859	BOLT- HEX STD THRD-GRD 2 3/8-16 UNC X 2.PLTD	8	06	FDL3510M	T.F. 2100/SMOOT MOTOR- 1HP, 1PH 115/220/440V, 60 HZ,	1
11	2FH1D35	(T.F. 2100) BOLT- HEX FULL THRD-GRD 2	1	16	PT0480	BELT-V, A31 .50" TOP, .31" THICK,	1
12	3FHD79D	3/8-16 UNC X 3 WASHER- LOCK REGULAR	4	Ξz	PTOGIE	PULLEY- (FLAT) FIXED BORE 3.25" OD X .62" ID -14	1
13	3FHD791	5/16. PLTD WASHER- LOCK REGULAR	28	60	PT0622	PULLEY- (FLAT) FIXED BORE 3.00" OD X 1.00" ID -14	1
14	3FHD865	3/8"_PLTD WASHER- FLAT STANDARD 3/8"_ PLTD	26	34	PT 105 1	LINK- CONNECTING, #80 3/4" PITCH, SPRING CLIP	1
15	3FHD947	WASHER- FLAT SAE 5/16. PLTD	4	35	PT 1054	LINK- OFFSET, #00 3/4" PITCH, SLIP FIT	1
16	3FH1D15	KEY- SQUARE 3/16" × 1"	1	35	PT 1 105	(T.F. 700, 1200, 1700 ONLY) SPROCKET- (HUB TYPE)	1
17	3FH1D24	KEY- SQUARE	1	37	PT 1083	15 TOOTH, 1-1/4"ID, #60 SPROCKET- (HUB TYPE)	1
18	3FH1D28	KEY- SQUARE	1			15 ТООТН, 1-1/2", #60 (Т.F. 700)	
19	3FH1040	KEY- SQUARE 3/8" X 1-3/4"	٦		PT 1 107	SPROCKET- (HUB TYPE) 15 TOOTH, 1-3/4"ID, #60	1
20	801A136	PLATE- MOTOR TIGHTENER WELDMENT (AIRLOCK)	٦			(T.F 1200, 1700, 2100)	
21	801A138	SHIELD- AIRLOCK	دہ در				
	804A074	SHIELD- AIRLOCK	1	I			



8" X 8" FEED-IN AUGER ASSEMBLY INSTRUCTIONS

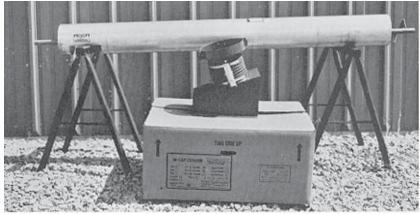


Photo 12

COMPONENT PARTS FOR 8" FEED-IN AUGER

- Place the sealed bearing between the bearing flanges and bolt the set to the augerhead. BE SURE the eccentric lock is to the outside. Use two 5/16" x 3/4" carriage bolts, lock washers and nuts. See Photo 13. Leave the bolts loose so the bearing can self-align on the shaft.
- Slide the stub shaft into the upper end of the auger flighting. BE SURE the keyway is left exposed. Fasten with two 3/8" x 1-3/4" Grade 5 bolts, and 3/8" lock nuts. See Photo 14.
- Place the auger head over the auger tube, sliding the stub shaft through the bearing. See Photo 15.



Photo 13



Photo 14



Photo 15



4. Install the locking collar onto the bearing. BE SURE to lock the collar with the rotation of the shaft, clockwise when looking at the auger head. The auger shaft should stick through the locking collar 1-5/8". Securely tighten the locking collar and set screw. Tighten the two (2) 5/16" carriage bolts. See Photos 16 & 17.

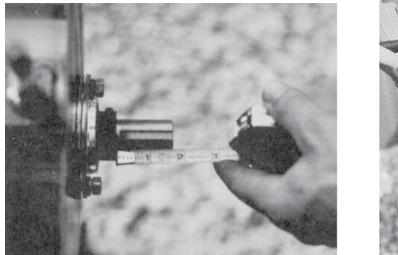


Photo 15

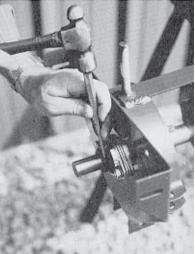


Photo 16

5. Slide one two (2) inch strap bracket under the top strap of the auger head, then fasten the auger head and the discharge securely to the auger tube with 3/8" x 1-1/4" bolts and nuts. Be sure the head is straight with the discharge opening on the tube, then tighten to the tube. See Photos 18 & 19.

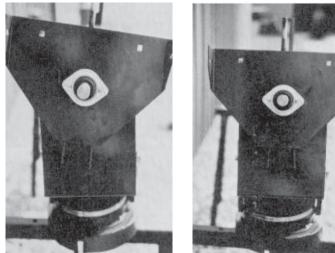
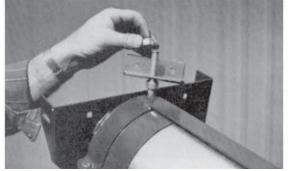


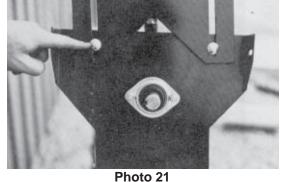
Photo 18 - Incorrect

Photo 19 - Correct

6. Thread a 1/2" nut onto the threaded stub bolt on the auger head. Slide the motor mount angle over the stub bolt and thread another 1/2" nut over the angle. Install the motor mount base plate to the auger head using two (2) 3/8" x 3/4" carriage bolts, lock washers and nuts. DO NOT TIGHTEN AT THIS TIME. See Photos 20 & 21 on the next page.

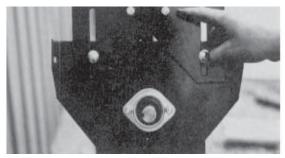








- 7. Put two (2) 5/16" x 3/4" carriage bolts, lock washers and nuts through the motor mount angle, and the motor mount base plate. See Photo 22.
- 8. Using a 5/16" carriage bolt, lock washer and nut, bolt the rear of the motor mount base plate to the rear support on the auger head. See Photo 23.





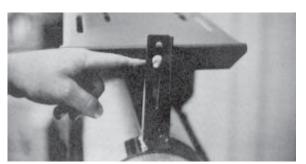


Photo 23

9. Install the 1/4" key and the 12" pulley onto the shaft, hub first. Have the shaft flush with the outer edge of the pulley. Tighten the set screws. See Photos 24 & 25.

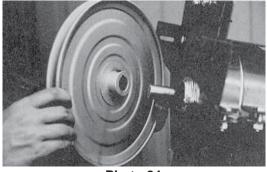


Photo 24



Photo 25

- Bolt the motor to the motor mount base plate using four (4) 5/16" x 1" hex bolts, flat washers, lock washers, and hex nuts. NOTE: These bolts are not supplied. See Photo 26.
- 11. Put the 3/16-inch key and 7/8" x 3-1/2" pulley onto the motor shaft. Align the motor pulley with the 12-inch auger pulley, tighten the set screw and install the belt. Adjust the belt tension by raising the 1/2 inch nuts on the threaded stub bolts. After the belt adjustment has been made, tighten all bolts left loose during the motor mounting assembly. See Photos 27 & 28.



Photo 26

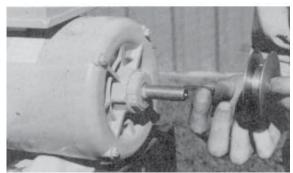


Photo 27

!!CAUTION!!

The auger motor must be wired for the same voltage as the Trans-Fer control box and checked for proper rotation of the auger.

HAVE A QUALIFIED ELECTRICIAN DO THE MOTOR WIRING. KEEP PEOPLE AND CLOTHING AWAY FROM THE AUGER WHEN TESTING FOR PROPER ROTATION.

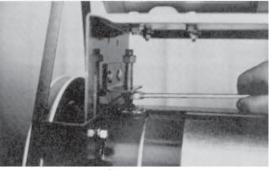


Photo 28

12. Using two 5/16" carriage bolts, lock washers and nuts, bolt the belt shield to the tabs on the auger head. See Photo 29.

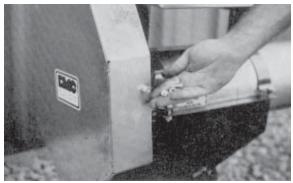


Photo 29



 Put the wooden bearing between the bearing flanges and bolt it to the tail cage hopper with three (3) 3/8" x 3/4" carriage bolts, lock washers and nuts. See Photo 30.



Photo 30

14. Install the hopper wheel bracket, using two (2) 3/8" x 3/4" carriage bolts, flat washers, lock washers and nuts. Slide two (2) 5/8" SAE washers on to the shaft, then the wheel, and another 5/8" SAE washer. Finish by installing a 1-1/4" cotter pin. See Photos 31 & 32.

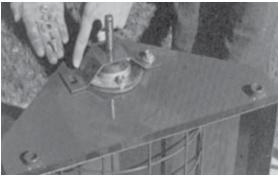






Photo 32

15. Slide the flow restrictor tube into the intake end of the auger tube with the nut welded on to the restrictor tube on the outer end. See Photo 33.

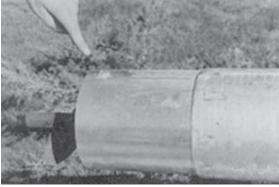
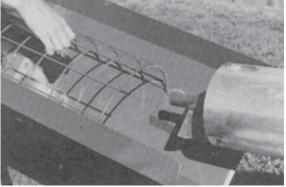


Photo 33





16. Put the tail cage hopper assembly onto the auger tube. Insert the end of auger shaft into the wooden bearing. Secure the tail cage hopper assembly to the auger tube by using two (2)- 2 inch strap brackets. Put the two (2) inch strap bracket with the pipe and threaded nut toward the top of the tail cage assembly as shown in Photo 34 & 35. Securely fasten with four (4) 3/8" x 1-1/4" hex head bolts as shown in Photo 36.

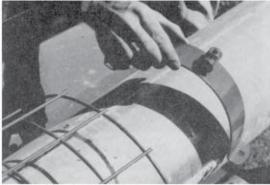


Photo 35



Photo 36

17. Put the blunt end of the guide rods into the bushings provided at the back of the hopper. Align the holes in the rod with those in the bushing and secure with 1/8" x 1-1/4" cotter pins as shown in Photos 37 & 38.

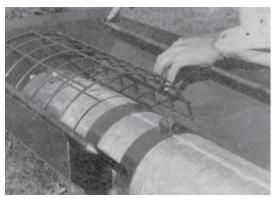


Photo 37

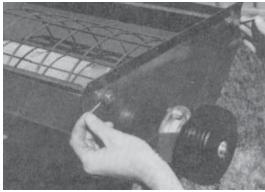


Photo 38

18. Place the flow restrictor adjustment handle through the bushing welded to the two (2) inch strap brackets and bolt it onto the flow restrictor tube with a 5/16" x 3/4" hex head bolt and lock washer. Finish by turning the wing bolt into the nut welded on the bushing of the strap bracket. See Photos 39, 40 & 41.



Photo 39





Photo 40

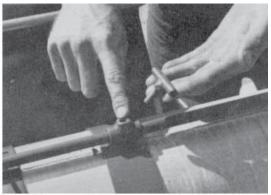


Photo 41

19. Install the hopper latch and upper glide rod support bracket by placing the ends of the glide rod support bracket through the holes in the hopper and onto the pointed guide rod ends. Fasten the latch to the hopper with the two 3/8" flat washers and two cotter pins. See Photos 42 and 43.

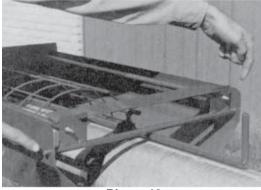






Photo 43

20. Assemble the hopper extensions using six 1/4" x 1/2" pan head machine screws and 1/4" hex head flanged whiz lock nuts. Once the upper extensions are assembled, fasten the glide rod guides to the upper extension using ten 1/4" x 1/2" pan head machine screws. See Photos 44 and 45. BE SURE to install bolts as shown in the photo.

 \mathbf{D}



Photo 44





21. Slide the hopper extension assembly onto the guide rods. Lift up the latch and finish the assembly by placing hair pin clips through the holes of the guide rods. See Photos 46 and 47.



Photo 46



Photo 47

Completed Auger

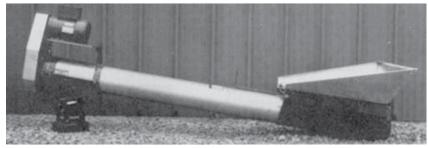


Photo 48

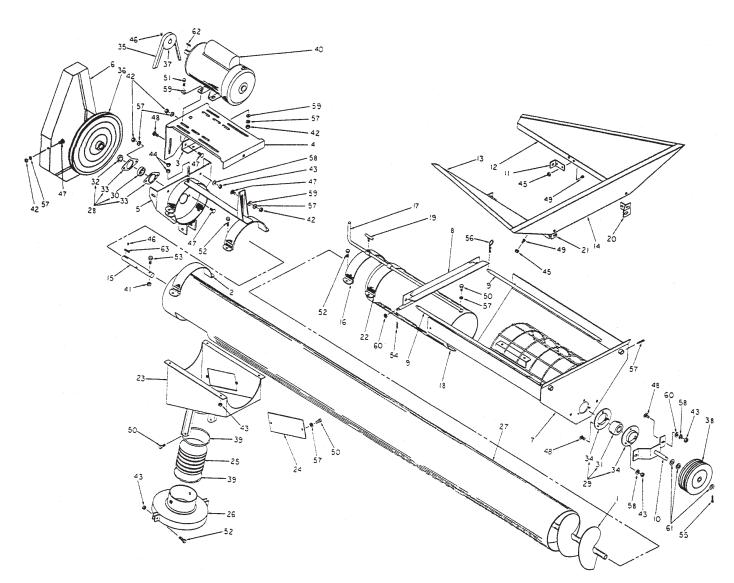
OPERATE AUGER BRIEFLY AND OBSERVE FOR PROPER ROTATION. Change wires in motor if rotation correction is needed.

I!CAUTION!!

The auger assembly is now completed.







8" x 8' FEED-IN AUGER and 10" x 12' PARTS LIST 8" x 8' Part # 10" x 10' Part # Description Ref. # # Required 202C0140 206C0022 7" OD Auger. 8" 1. 1 2. 205C0002 206C0007 1 2" Strap Bracket 3. 205C0003 205C0003 1 Motor Mount Angle Motor Mount Base Plate 4. 205C0005 205C0005 1 5. 205C0008 804A115 Auger Head 1 Motor Belt Shield 6. 205C0012 205C0012 1 7. 205C0016 206C0015 1 Tail Cage Hopper 8. 205C0022 205C0022 Latch and Glide Rod Support 1 205C0025 205C0025 2 Glide Rod 9 10. 205C0027 205C0027 1 Hopper Wheel Bracket 205C0030 2 Glide Rod Guide 11. 205C0030 12. 205C0031 205C0031 1 Right Sliding Hopper Sheet 13. 205C0032 205C0032 Left Sliding Hopper Sheet 1 205C0038 14. 205C0038 1 Sliding Hopper End Sheet 15. 205C0039 206C0089 1 Stub Shaft 205C0040 206C0008 Flow Restrictor Strap Bracket 16. 1 17. 205C0043 206C0030 1 Flow Restrictor Adjustment Handle 18. 205C0044 206C0016 1 Flow Restrictor Tube 19. 205C0054 2FH0428 1 Wing Bolt 20. 205C0056 205C0056 1 Right End Glide Rod Guide 21. 205C0057 205C0057 Left End Glide Rod Guide 1 22. 205C0060 206C0032 1 Flow Restrictor Strap Bracket, Without Nut 23. 804A091 Discharge Hopper 802A077 1 24. 801A043 801A043 1 Access Hole Cover 25. 802A083 804A103 1 Flexible Connecting Tube 26. 802A084 804A097 Airlock Grain Intake Cover 1 27. 801C001 206C0018 1 Auger Tube, 8" x 7 Eccentric Lock Bearing, 1" (Complete) 28. PT0115 PT0115 1 29. PTO124 PT0129 1 Wood Bearing, 1-1/4" (Complete) 30. PT0203 PT0203 1 Bearing, Sealed with Eccentric Locking Collar, 1" PT0229 PT0219 Wood Bearing, 1-1/4" bore 31. 1 32. PT0401 PT0401 1 Collar, Eccentric Lock, 1" PT0420 PT0420 2 Hole Bearing Mounting Flange 33. 2 34. PT0424 PT0424 2 3 Hole Center Flange Mount 35. PT0490 PT0490 1 B-48 V-Belt Pulley, 1" x 12", B Section Pulley, 3" x 5/8" - 1B (for 3EL5097) PT0681 PT0684 36. 1 37. PT0706 1 Pulley, 3" x 7/8" - 1B (for 3EL5100) PT0627 1 Pulley, 3" x 1-1/8" - 1B PT0708 2 38. MS0021 MS0021 1 6" Rubber Wheel Worm Gear Clamp 6-1/2" - 8-1/2" 2 39. MS0368 Worm Gear Clamp 12 5/6" OD MS0309 2 40. 3EL5097 1 Motor, 1-1/2 HP, 1 PH 3EL5100 1 Motor, 1-1/2 HP, 3 PH M3611T 1 Electric Motor 3 HP-230/440V- 3PH-182T frame 41. 1FH0736 1FH0736 2 Lock Nut, 3/8" 42. 1FH0764 1FH0764 11 Hex Nut, 5/16" 43. 1FH0765 1FH0765 15 Hex Nut, 3/8" 1FH0767 1FH0767 2 Hex Nut, 1/2" 44. Hex Flange Whiz Lock Nut, 1/4" 45. 1FH0995 1FH0995 16 46. 2FH0512 2FH0512 3 Socket Head Set Screw, 5/16" x 5/16" 47. 2FH0645 2FH0645 7 Carriage Bolt, 5/16" x 3/4" 2FH0659 2FH0659 7 Carriage Bolt, 3/8" x 3/4" 48. 2FH0747 49 2FH0747 16 Pan Head Machine Screw, 1/4" x 1/2" 50. 2FH0828 Hex Bolt, 5/16 x 3/4" 2FH0828 5 51. 2FH0830 4 Hex Bolt, 5/16" x 1" Hex Bolt, 3/8" x 1-1/4" Hex Bolt, 3/8" x 1-3/4", Grade 5 52. 2FH0856 2FH0856 12 53. 2FH1057 2 2 3/8" x 2" Hex hd grade 5 bolt 2FD1058 Cotter Pin, 1/8" x 3/4" 54. 3FH0712 3FH0712 2 55. 3FH0714 3FH0714 3 Cotter Pin, 1/8" x 1-1/4" Cotter Hair Pin, 1/8" x 2-3/8" 56. 3FH0770 3FH0770 2 Lock Washer, 5/16" 57. 3FH0790 3FH0790 14 7 Lock Washer, 3/8" 58. 3FH0791 3FH0791 59. 3FH0864 3FH0864 9 Flat Washer, 5/16" 60. 3FH0865 3FH0865 Flat Washer, 3/8" 4 3 Flat Washer, 5/8" SAE 61. 3FH0952 3FH0952 62. 3FH1015 1 Square Key, 3/16" x 1" 3FH1026 63. 1 Square Key, 1/4" x 1" 1/4" x 2" square key 2 3FH1030



TROUBLE SHOOTING

PROBLEM	SOLUTION
System Plugs Up	 Check belt tension on air blower and tighten if loose. Check air filter and clean out. Locate in a place where there is less dust. Check tubing system for any obstructions. Reduce feed-in rate. Air pressure switch setting may be too low. Outlet gate valve too far open.
Excessive Grain Damage	 Feed-in auger may be overfeeding airlock, causing vanes to shear off grain. Reduce feed rate. Air velocity may be excessive. Slow air blower by changing pulleys or by opening gate valve. Damage can occur if system is running at less than full capacity. Increase feed rate. Rubber hose used to change grain direction, or used for extended lengths. Airlock shear protector installed wrong.
Airlock Stops or is Noisy	 A foreign object may have become lodged in the airlock vanes. Check belt tension. Check gearbox drive. The rotor vanes may be rubbing on the ends of the airlock. Check clearance at both ends of rotor and center in housing by loosening the set screws in the bearings on both ends of the rotor shaft and moving rotor. Tighten set screws after repositioning. The rotor vanes may have become rusted to the airlock housing. The airlock can be broken loose by using a pipe wrench on the exposed rotor shaft. CAUTION: The worm drive gearbox cannot be driven in reverse and can be damaged. Remove the airlock drive chain before attempting to turn the airlock by hand. "U" cup packings on rotor too tight. (Contact DMC)





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