OWNER'S MANUAL

Air System

6" - 2100 Bu/Hr

Pneumatic Grain Conveying

PNEG-1369



Date: 06-24-06

THE GSI GROUP

1004 E. ILLINOIS ST. • ASSUMPTION, IL 62510 • PH: (217) 226-4421

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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 guidelines. 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

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.

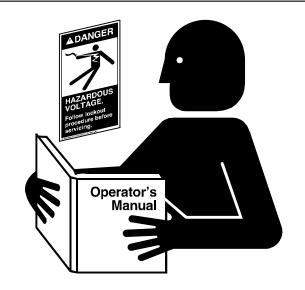
FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages in this manual and on your machine safety signs. Keep signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from the manufacturer.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machinery in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

If you do not understand any part of this manual and need assistance, contact your dealer.

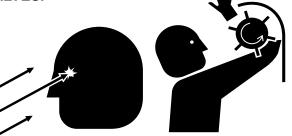


STAY CLEAR OF MOVING PARTS AND AIR VALVES.

Keep hands and feet away from moving parts. Be sure all people are clear of the equipment before start-up. Wear close fitting clothing.

Keep all shields and covers in place at all times.

Stay clear of air blast from valve. Always where safety glasses to protect your eyes.



Flying Debris

Rotating Parts

INSTALL AND USE EQUIPMENT PROPERLY

Ground all electrical equipment as well as the bin itself.

Disconnect all power before servicing or opening control box, adjusting, lubricating the equipment, or opening the control box inner panel.

All electrical hook-ups should be in accordance with local and National Electrical Code.

Identify wild leg and wire according to electrical diagram.

Never use plastic tubing for any lines carrying grain.



PRACTICE SAFE MAINTENANCE

Understand service procedures before doing work. Keep area clean and dry.

Never lubricate, service, or adjust machine while it is in operation. Stop and lock out power source before making adjustments, cleaning, or maintaining equipment.

Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any build up grease, oil, or debris.

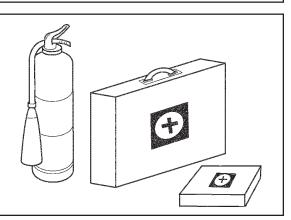


PREPARE FOR EMERGENCIES

Be prepared if fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



WEAR PROTECTIVE CLOTHING

Wear close fitting clothing and safety equipment appropriate to the job.

Safety glasses should be worn at all times to protect eyes from debris.

Wear gloves to protect your hands from sharp edges on plastic or steel parts.

A respirator may be needed to help prevent breathing potentially toxic fumes and dust.

Wear hard hat and steel toe boots to help protect your head and toes from falling debris.

Eye Protection

Gloves

Steel Toe Boots

Respirator

Hard Hat











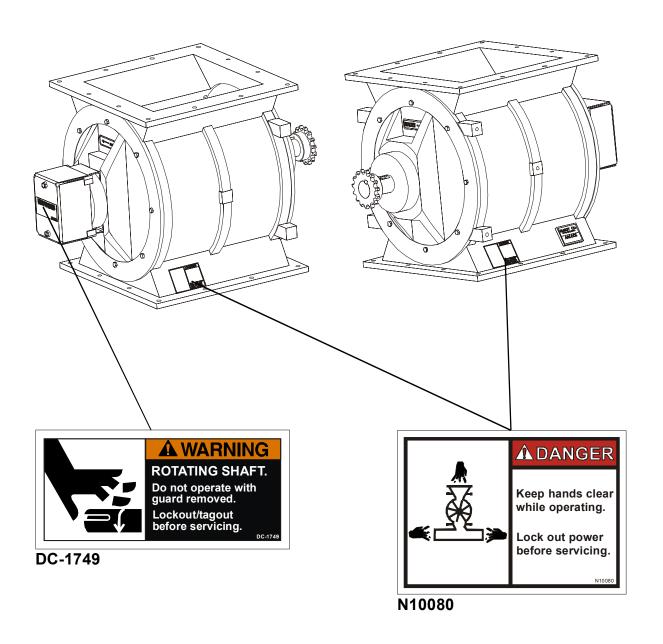
DECAL PLACEMENT

Install safety decals on components as shown in the decal section. Always insure that safety decals are in a place, easily readable, and in good condition. If a decal cannot be easily read for any reason or has been painted over, replace it immediately. Contact your dealer or the manufacturer to order a replacement decal free of charge.

For decal replacements contact GSI at: 1004 E. Illinois Street

Assumption, IL 62510 Ph: 217-226-4421

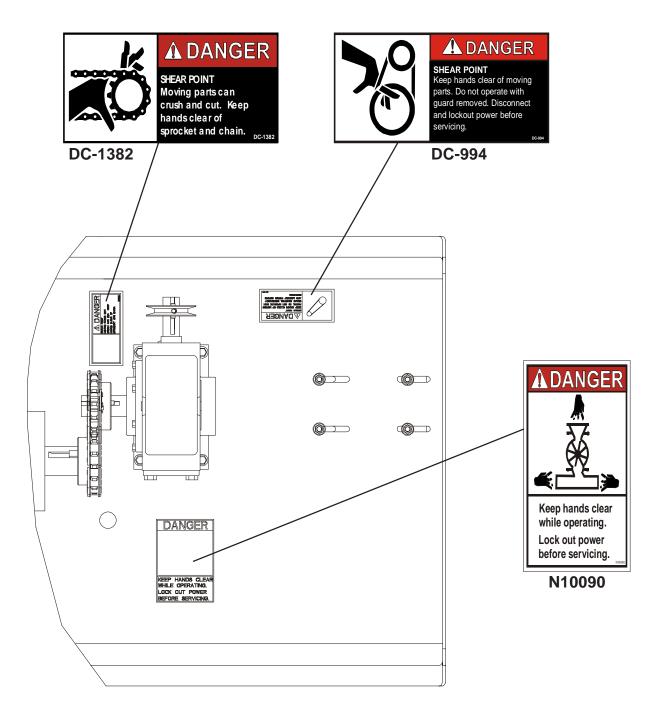
Airlock



DECAL PLACEMENT Airlock Base

For decal replacements contact GSI at: 1004 E. Illinois Street

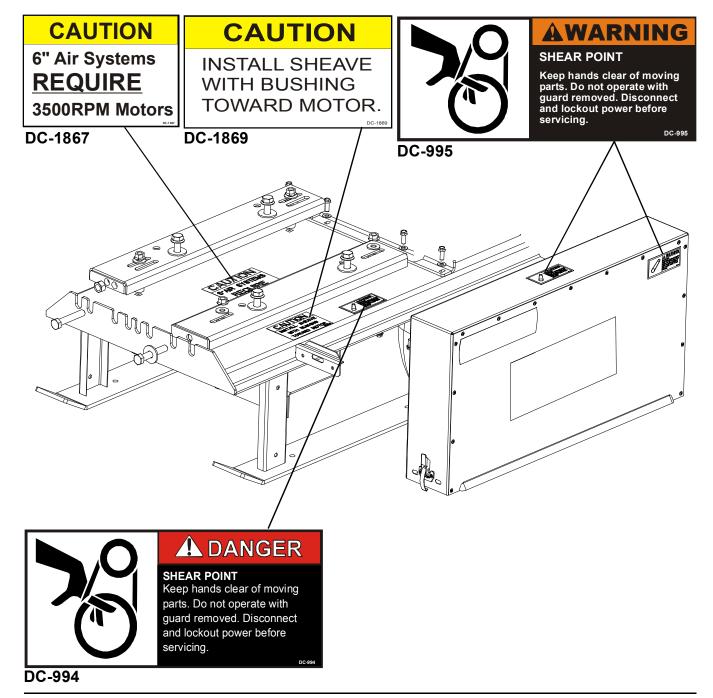
Assumption, IL 62510 Ph: 217-226-4421



DECAL PLACEMENTBlower Base and Guard

For decal replacements contact GSI at: 1004 E. Illinois Street

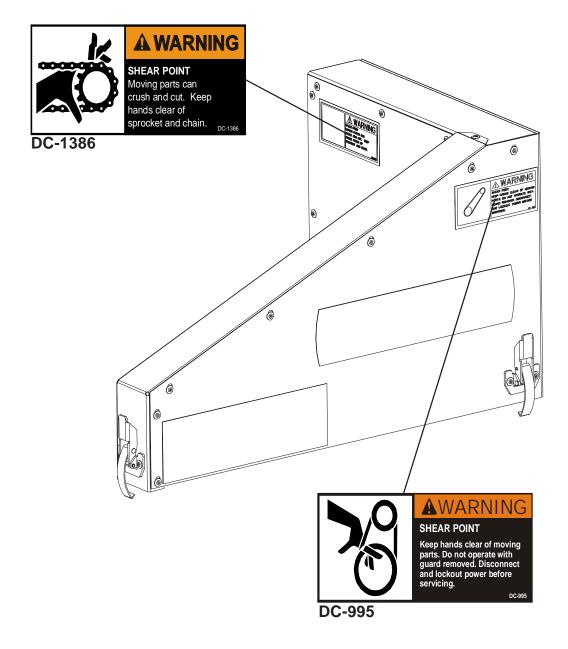
Assumption, IL 62510 Ph: 217-226-4421



DECAL PLACEMENT Airlock Guard

For decal replacements contact GSI at: 1004 E. Illinois Street

Assumption, IL 62510 Ph: 217-226-4421



MAINTENANCE SCHEDULE

Indicat Orang Ha	
Initial Start-Up 1. Roots-Flo Blower 2. Air Lock Gearbox 3. Air Filter 4. V-belts 5. Chain 6. Tubing System	 Oil level at middle of sight glass (DMC #MS5389 synth. oil.) Oil level to check plug (SAE90) Installed properly Tensioned and aligned Tensioned and aligned All couplers tight. All tubing connections have good fit. Tubing laid out straight. Elbows fitting properly.
After First 10 Hours and Daily	
 Air Filter V-belts Tubing 	 Check for excessive dust build-up Check tension alignment Check all connections for leaks and signs of separating
Weekly	
Chain Blowers & Gearbox	Oil Check oil levels.
1500 Hours (Synthetic Oil)	
1. Roots-Flo and Duraflow	Drain oil and replace with 1.5 Qts. of DMC #MS5389 synthetic oil. (Fill to middle of sight glass.)
EXTENDED SHUT DOWN Disconnect Main Power to Unit	
1. Blower	Remove inlet assembly and spray oil on lobes while rotating by hand, to prevent rust. Keep hands and objects out of blower. Re-install inlet assembly
2. Airlock	Coat interior with oil, while rotating by hand, to prevent rust. Re-install weather cover.
3. Chain	3. Oil chain to prevent rust

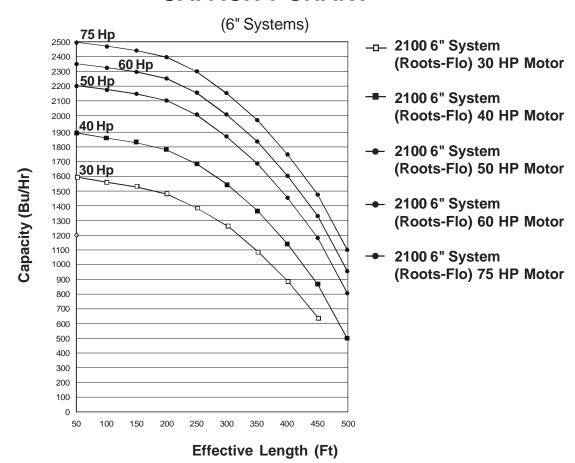
AIR SYSTEM CAPACITIES

(Dry Shelled Corn)

	2100 Bu/Hr							
	6	6" System (Roots-Flo)						
Effective	40 HP	50 HP	60 HP	75 HP				
Length (Feet)	Motor	Motor	Motor	Motor				
50	1900	2200	2350	2500				
100	1875	2175	2325	2475				
150	1850	2150	2300	2450				
200	1800	2100	2100	2400				
250	1700	2000	2150	2300				
300	1550	1850	2000	2150				
350	1375	1675	1825	1975				
400	1150	1450	1600	1750				
450	875	1175	1325	1475				
500	500	800	950	1100				

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



AIR SYSTEM 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. When the distance between the airlock and blower is over 10 feet, it is best to use galvanized pipe with short flex hose on the ends to couple the units together to keep airflow restrictions to a minimum.
- 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.
- 6. 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. See page 15.

NOTE

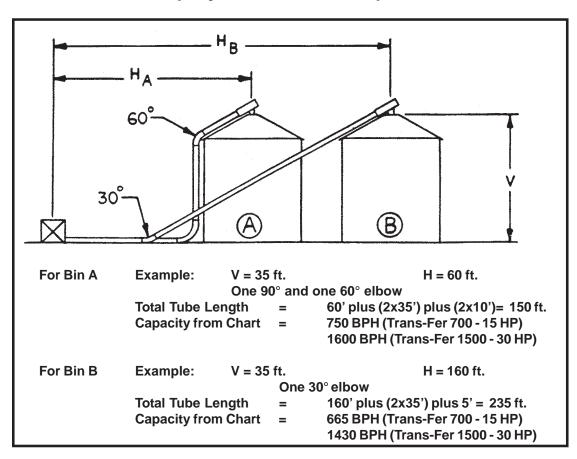
A MINIMUM OF EIGHT (8) FEET BETWEEN ELBOWS IS REQUIRED FOR PROPER OPERATION.

- 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 bolts on the coupler evenly or until the coupler flanges butt together. (See Page 56).
- 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.
- 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.

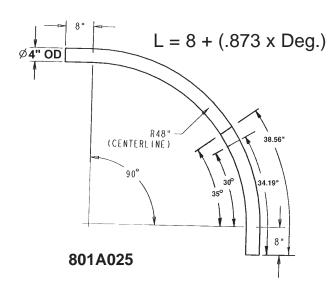
AIR SYSTEM INSTALLATION (Continued)

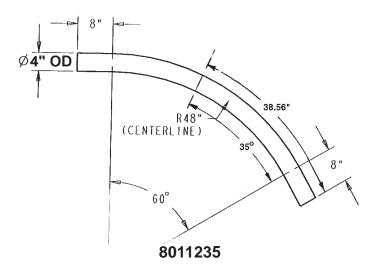
- 10. Install all tubing required to transfer grain to your storage areas.
- 11. To attach the deadhead deflector to the tubing, simply slide the deadhead deflector onto the tubing and tighten the clamp provided. Flexible galvanized tubing can be attached to the deadhead down spout if needed. If a cyclone is used, an elbow and mounting brackets are needed.
- 12. 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.
- 13. Before wiring or operating the Air System unit, read the control box description on pages 20-26 to understand the operation of the Air System control box. If the control box is to be wired to remote equipment, review the wiring diagrams for proper hook-up.

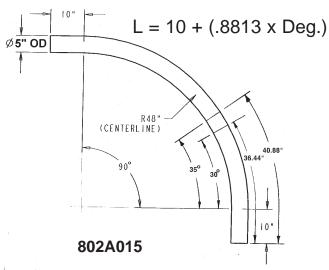
AIR SYSTEM CAPACITIES (Dry Shelled Corn)

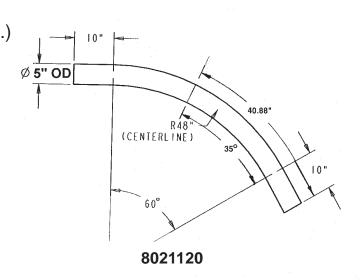


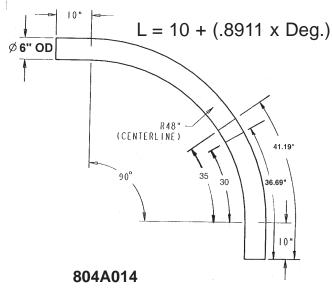
ELBOW ANGLE MEASUREMENTS

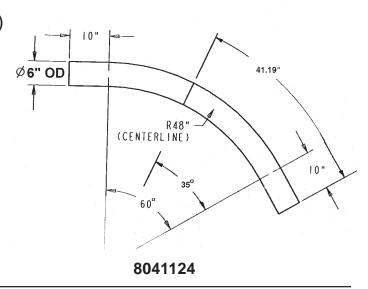












AIR SYSTEM SET-UP PROCEDURES

- 1. 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).

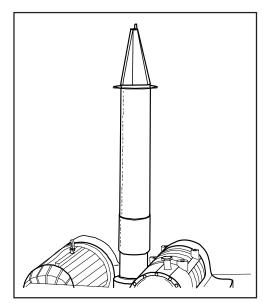


Photo 1

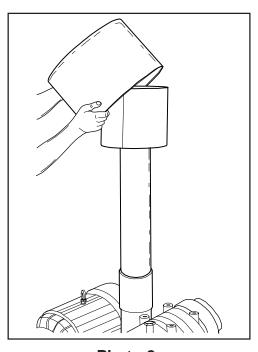


Photo 2

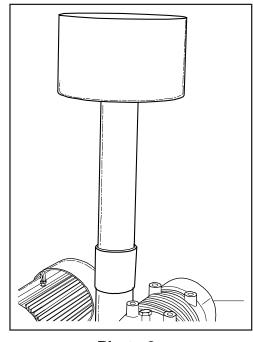
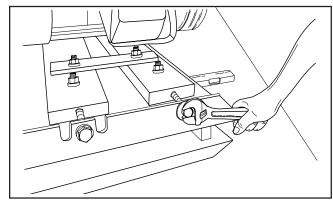


Photo 3

- 3. Check the motor name plate for the correct motor frame size. Then refer to the Drawing on page 19 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 the Drawing on page 19. Finish by bolting the motor securely to the channels. Leave the four 1/2" carriage bolts loose, holding the channels to the main frame.
- 4. Place the pulley and taper lock bushing onto the motor and align it with the blower pulley. See Photo 5 on the next page.

AIR SYSTEM SET-UP PROCEDURES (Continued)



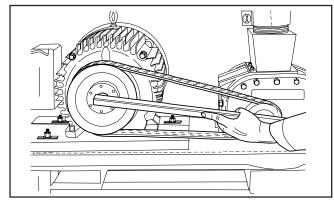


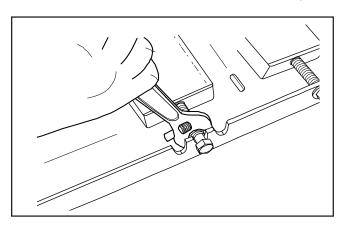
Photo 4

Photo 5

- 5. Place the matching set of 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 4 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 CCW rotation.



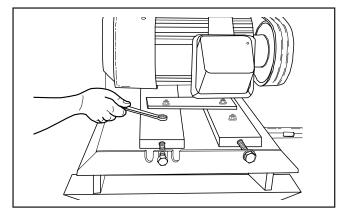
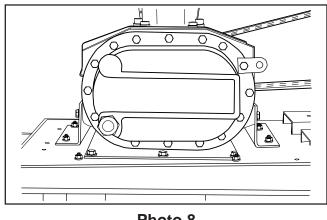


Photo 6

Photo 7

- 7. Check the oil level of the blower. The oil level should be at the center of the sight glass. Add DMC #MS5389 (Mobil Oil #SHC 630 or Grainger #6Y778), 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 11 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 reducer. See Photo 9.

AIR SYSTEM SET-UP PROCEDURES (Continued)



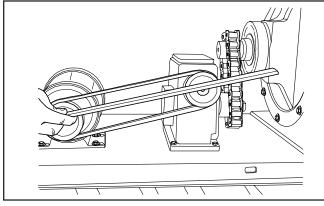


Photo 8 Photo 9

- 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.

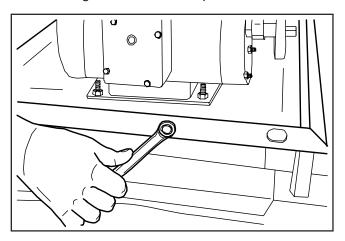


Photo 10

11. Remove 1/4" pipe plug in gate valve pipe. Install gauge assembly and attach air hose. (See Photo 12.)



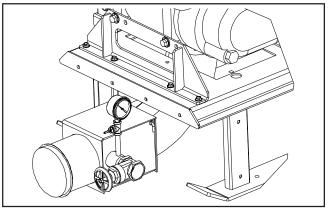
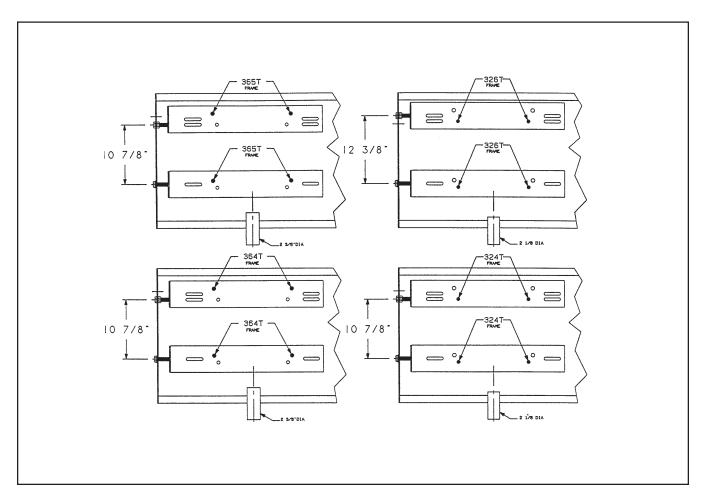


Photo 12

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

6" AIR SYSTEM 2100 MOTOR MOUNTING LOCATIONS



6" AIR SYSTEMS MOTOR CHART						
Motor Part#	Horsepower	Frame Size	Shaft Diam.	Voltage	Phase	
CH-5582	40	324TS	1-7/8	230/440	3	
CH-5583	50	326TS	1-7/8	230/440	3	
6000-3-3500	60	364TS	1-7/8	230/440	3	
7500-3-3500	75	365TS	1-7/8	230/440	3	

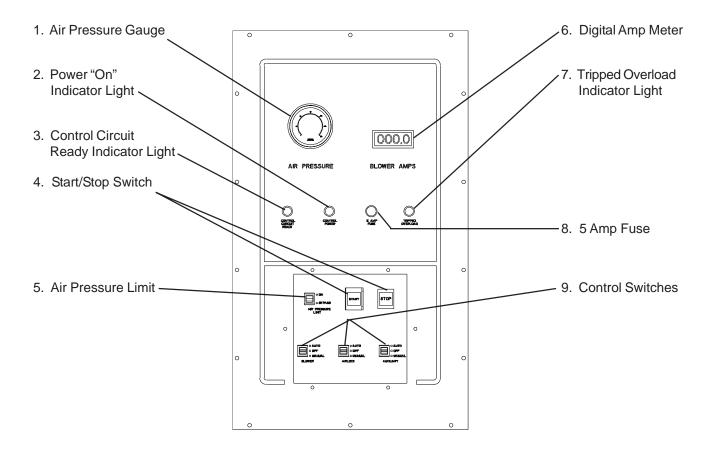
NOTE:

Motor rotation is counterclockwise as viewed from the shaft end



Be sure to install motor sheave so bushing is on the inside towards the motor

AIR SYSTEMS CONTROL BOX DEFINITIONS



- 1. Air Pressure Gauge: This gauge indicates the system air pressure.
- 2. Power-On Indicator Light: This lamp will light up when power is supplied to the control box.
- 3. Control Circuit Ready Indicator Light: This lamp will light up when the start button has been pushed and all control circuits are completed. When lit and in the automatic mode, the air system will run whenever it receives a signal to start.
- 4. Start-Stop Switch: The start button must be pushed before any part of the Air System can be run. Pushing the stop button will immediately stop all functions.
- 5. Air Pressure Limit Control Switch: When in the "On" position, this switch will allow the air pressure switch to immediately shut down the air system whenever the air pressure exceeds preset conditions.
- 6. Amp Meter: The amp meter measures the current flow to the blower motor.
- 7 Tripped Overload Indicator Light: This lamp will light up when any of the motor thermal overloads in the control box has tripped. The overloads for <u>all three circuits</u> (Aux, Airlock, and Blower) must have thermal overloads installed to operate the system. See Thermal Unit chart on page 22.
- 8. 5 Amp Fuse: A five (5) amp fuse protects the electrical components in the control box.

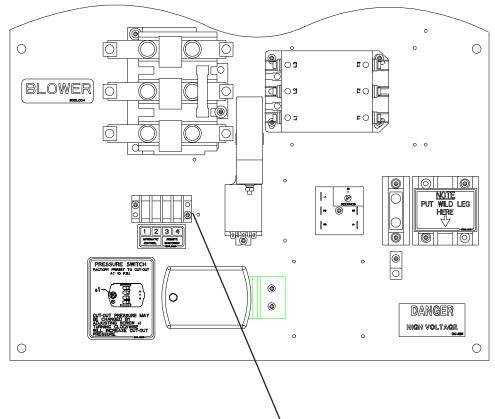
AIR SYSTEM CONTROL BOX DEFINITIONS (Continued)

- 9. Control Switches: The operation of the blower, airlock and auxiliary equipment of the air system is controlled by placing these switches in the "Auto", "Manual" or "Off" position.
- 10. Automatic Control Terminals: When the air system is ready to run (i.e., the control ready light is on), the system can then be started and run by completing the circuit between terminals one (1) and two (2). The blower, airlock or auxiliary equipment will not run in the automatic mode unless terminals one (1) and two (2) are connected. For example, a closing set of contacts in a dryer control box would complete the circuit between terminals one (1) and two (2) and automatically start the air system.

AWARNING

No voltage should be supplied to terminals one (1) and two (2). See the diagram on pages 24 & 25 and drawing below.

11. Remote Shut-Down Control: A remote piece of equipment can be caused to shutdown with the air system by putting terminals three (3) and four (4) in series with the control circuit of the remote equipment. This circuit has a maximum current rating of 10 amps. The circuit between terminals three (3) and four (4) is closed whenever the control circuit ready light is on, regardless of the position of the control switches. ("AUTO", "OFF" or "ON") See the Diagram on pages 24 & 25 and the Drawing on page 29.



Steps 10 & 11: Automatic Control and Remote Shut-Down Control

AIR SYSTEM CONTROL BOX -- THERMAL UNIT CHART

SINGLE MOTOR	1EL0861 #B 3.00 THERMAL UNIT	1EL0859 #B 4.15 THERMAL UNIT	1EL0769 #B 6.90 THEMAL UNIT	1EL0762 #B 7.70 THERMAL UNIT	1EL0767 #B 9.10 THERMAL UNIT	1EL0761 #B 14 THERMAL UNIT	1EL0794 #CC 68.5 THERMAL UNIT	1EL0800 #CC 103 THERMAL UNIT	1EL0791 #CC 112 THERMAL UNIT	1EL0808 #CC 143 THERMAL UNIT	1EL0812 #CC 156 THERMAL UNIT	1EL0809 #CC 180 THERMAL UNIT
6" AIR SYSTEM	- +	V 44	- 4	V 44	- +-	V 44	- ++	- 4+	- +-	- +	- +-	- +
40HP, 230V, 3PH			3		3						3	
6" AIR SYSTEM												
40HP, 440V, 3PH	3	3					3					
6" AIR SYSTEM												
50HP, 230V, 3PH			3			3						3
6" AIR SYSTEM												
50HP, 440V, 3PH	3			3					3			
6" AIR SYSTEM												SET
60HP, 230V, 3PH			3			3						.63
6" AIR SYSTEM												
60HP, 440V, 3PH	3			3				3				
6" AIR SYSTEM												SET
75HP, 230V, 3PH			3			3						.70
6" AIR SYSTEM												
75HP, 440V, 3PH	3			3						3		

OVERLOAD RELAY SETTINGS FOR 2EL0284 ADJ. OVERLOAD RELAY (used on 60 & 75 HP - 230 V)

2EL0284 relay must be adjusted to provide protection to the blower motor. The proper relay setting is determined by matching the relay setting with the motor nameplate amperage on the scale that is attached to the overload adjustment block. Use a small screw driver to turn the adjustment dial and align the proper relay setting with the indicator mark. The example above shows a motor with a nameplate amperage of 200 amps protected by using a relay setting of 0.8. This device should also be set to

Motor Nameplate Amperage Adjustment Scale LR2**F**6373 (A) 175 200 250 REGLAGE RELAIS RELAY SETTING 0.7 0.8 n Telemecanique LR2 D13 GSI Ť Ò 98 95 98

blue button with a phillips head should be in the "up" position. If not, lift open the clear plastic window and turn the blue button 1/4 turn to the left. Close the window to lock the reset in the "manual" position.

Relay Setting

THERMAL OVERLOAD INFORMATION

NOTE: When installed correctly, the size printed on the overload will be readable. The Square D overload charts should be used to size the heater to your motor amps.

SQUARE D'

have a "manual" reset. The small

OVERLOAD RELAY Class 9065, Type S

3 Element Melting Alloy 86 Amp. Max. Motor Rating

Suitable For Use On A Circuit Capable of Delivering Not More Than 5000 rms Symmetrical Amperes, 600 Volts Maximum.

OVERLOAD - RELAY THERMAL UNITS WARNING:

AVERTISSEMENT:

MOTOR FULL- LOAD CURRENT (AMP.)	THERMAL UNIT NO.	MAXIMUM FUSE RATING (AMP.)	MOTOR FULL: LOAD CURRENT (AMP.)	THERMAL UNIT NO.	MAXIMUM FUSE RATING (AMP.)	
16.5-17.4	CC 20.9	35	40.6-43.7	CC 54.5 ***	90	
17.5-18.9	CC 22.8	35	43.8-47.8	CC 58,4	90	
19.0-20.5	CC 24.6	40	47.1-58.3	-CC 64.3	100	
20.6-27.0	CC 26.3	45	1		600V. 250V.	
22.1-23.8	CC 28.8	45			Max, Max.	
23.9-25.6	CC 31.0	50	50.4-54.5	CC 68.5	100 110	
25.7-27.7	GC 33.3	50	54.6-58.3 58.4-63.1	CC 74_6 CC 81.5	100 110 100 125	
27.8-29.7	CC 36.4	60	38.4-63.1	10 Table 1		
29.8-32.2	CC 39.6	60	63.2-68.4	CC 87.7	100 125	
32.3-34.7 /	CC 42.7	70	68.5-73.8 73.9-78.9	CC 94.0	100 125	
34.8-37.3	CC 46.6	70				
27 4 40 6	CC ED 1	l en	70 0.00 0	CC 112	108 t25	

SQUARE D°

OVERLOAD RELAY Class 9065, Type S

3 Element Melting Alloy 45 Amp. Max. Motor Rating

Suitable For Use On A Circuit Capable of Delivering Not More Than 5000 rms Symmetrical Amperes, 600 Volts Maximum.

OVERLOAD - RELAY THERMAL UNITS WARNING:

AVERTISSEMENT:

MOTOR FULL- LOAD CURRENT (AMP.)	THERMAL UNIT NO.	MAXIMUM FUSE RATING (AMP,)	MOTOR FULL- LOAD CURRENT (AMP.)	THERMAL UNIT NO.	MAXIMUM FUSE RATING (AMP.)
3.38-3.65	8 4.85	7	12.1-13.5	B 17.5	25
3.66-4.07	B 5.50	8	13.6-14.6	B 19.5	30
4.08-4.36	B 6.25	9	14.7-16.7	B 22	30
4.37-5.19	8 6.90	9	16.8 18 9	8 25	35
5.20-5.59	8 7.70,	10	19.0-21.6	8 28.0	40
5.60-5.98	8 8.20	12	21.7-24.1	8 32	45
5.99-6.78	8 9.10	12	24.2-27.8	B 36	50
6.79-7.91	8 10.2	15	27.7 31.2	B 40	60
7.92 9.12	8 11.5	17.5	31.3-35.5	B 45	60
9.13-10.0	8 12.8	. 20	35.6-37.8	8 50	60
10.1-10.7	B 14	20	37.9-41.5	8 56	60

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SQUARE TI

OVERLOAD RELAY Class 9065, Type S

3 Element Melting Alloy 26 Amp. Max. Motor Rating

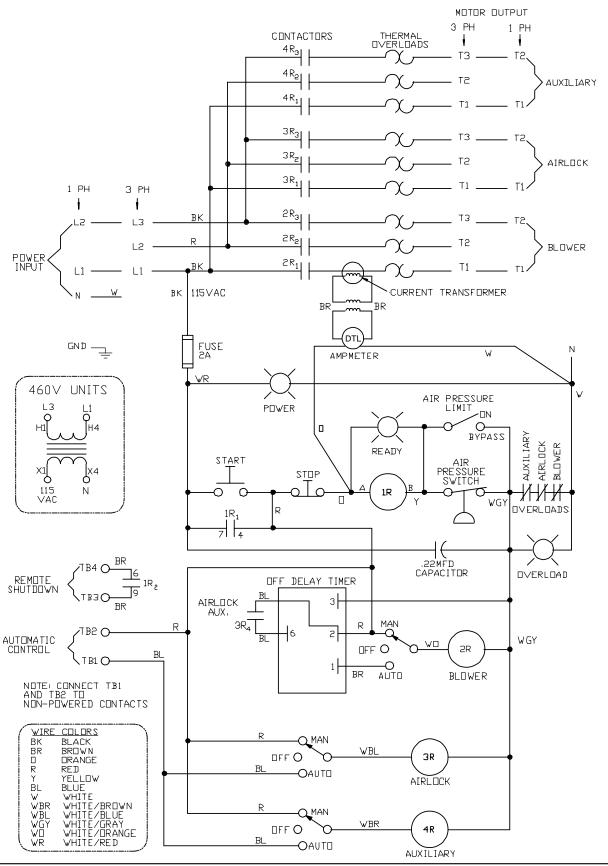
Suitable For Use On A Circuit Capable of Delivering Not More Than 5000 rms Symmetrical Amperes, 600 Volts Maximum.

OVERLOAD — RELAY THERMAL UNITS WARNING:

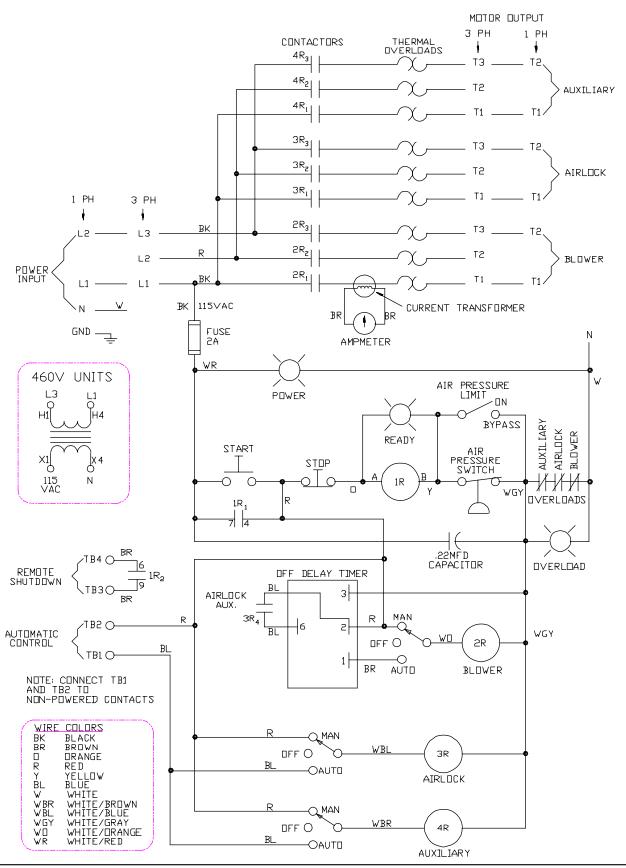
AVERTISSEMENT:

MOTOR FULL LOAD CURRENT (AMP.)	THERMAL UNIT NO.	MAXIMUM FUSE RATING (AMP.)	MOTOR FULL LOAD CURRENT (AMP.)	THERMAL UNIT NO	FL	IMUM ISE ING (P.)
0.29-0.31	B 0.44	0.6	3.49-3.87	8 5.50		7
0.32-0.35	B 0.51	0.6	3.88-4.14	8 6 25		8
0.36-0.38	B 0.57	0.8	4.15-4.73	8 6.90		9
0.39-0.46	B 0.63	0.8	4.74-5.28	B 7.70	1	0
0.47-0.55	B 0.71	1	5.29-5.64	B 8.20	1	
0.56-0.62	B 0.81	1.25	5.65-6.39	B 9 10	1	
0.63-0.67	B 0.92	1.4	6.40-7.43	6 10.2		2
0.68-0.75	B 1.03	1.4	7.44-8.55	B 11.5		5
0.76-0.84	B 1.16	1.6	8.56-9.40	B 12.8		7.5
0.85-0.95 0.96-1.09 1.10-1.21	8 1.30 8 1.45 B 1.67	1.8 2 2.25	9.41-10.0 10.1-11.2 11.3-12.5	8 14 B 15.5 B 17.5	2 2 2	0
1.22-1.35	B 1.88	2.5	12.6-13.5	B 19.5	2	0
1.36-1.53	B 2.10	2.8	13.6-15.4	B 22	3	
1.54-1.73	B 2.40	3.2	15.5-17.5	B 25	3	
1.74-1.90 1.91-2.14 2.15-2.34	8 2.65 B 3.00 B 3.30	3.5 4 4.5	17.6-19.9	B 28.0	600V Max. 30	250V Max. 35
2.35-2.67	8 3.70	5	20.0-22.2	8 32	30	40
2.68-3.22	8 4.15	5.6	22.3-25.5	8 36	30	40
3.23-3.48	8 4.85	7	25.6-26.0	8 40	30	40

SCHEMATIC WITH DIGITAL AMP METER



SCHEMATIC WITH ANALOG AMP METER



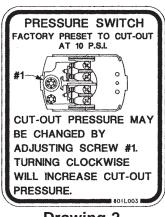
CONTROL BOX OPERATIONAL PROCEDURES

I. Automatic operation using the Automatic Controller Unit tied to terminals one (1) and two (2).

- 1. Place the Blower, Airlock and Auxiliary Control Switches in the "Off" position.
- 2. Place the Air Pressure Limit Control Switch in the "On" position (unit will stop when the air pressure reaches 10 PSI).
- 3. Turn on the power to the Air Systems Control Box. The power light should come on.
- 4. Push the Start button; the Control Circuit Ready Light should come on.
- 5. Place the Blower, Airlock and Auxiliary Switch in the "Auto" position.
- 6. The complete air system will now run when the Automatic Controller completes the circuit between terminals one (1) and two (2). When this circuit is broken, the airlock and auxiliary equipment will stop immediately, but the blower will continue to run for an additional 15 seconds to clear the tubing in the system.
- 7. The airlock, auxiliary equipment, and blower will run when the control switches are placed in the "manual" mode. The airlock, auxiliary equipment and blower will stop immediately when switched "off".
- 8. Pushing the Stop button will immediately stop all air system functions as well as any equipment tied to terminals three (3) and four (4).

II. Operation of the air system WITHOUT an Automatic Controller tied to terminals one (1) and two (2).

- 1. Place the Blower, Airlock and Auxiliary Control Switches in the "Off" position.
- 2. Place the Air Pressure Limit Control Switch in the "On" position (unit will stop when the air pressure reaches 10 PSI).
- 3. Turn on the power to the Air System Control Box; the power light should come on.
- 4. Push the Start button. The Control Circuit Ready Light should come on.
- 5. The blower, airlock and auxiliary equipment can now be run by placing them in the "manual" position. The airlock, auxiliary equipment and blower will stop immediately when switched off.
- 6. Pushing the stop button will immediately stop all air system functions as well as any remote equipment tied to terminals three (3) and four (4).



Drawing 2

AIR SYSTEM OPERATION GUIDELINES

- 1. Be aware of the quality of grain that is entering and leaving the air 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 air system. 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.
- 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.

A 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 air transfer to run. See Drawing 2 on page 26.
- 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.
- The airlock is provided with a housing that incorporates grain shear protection to prevent grain damage.

6. GUIDELINES FOR OPERATION OF AIR SYSTEMS

- a) Grain in a pneumatic air 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".)
- Increasing the air in a system (closing the gate valve) will increase the grain velocity and lower the pressure.

AIR SYSTEM OPERATION GUIDELINES (Continued)

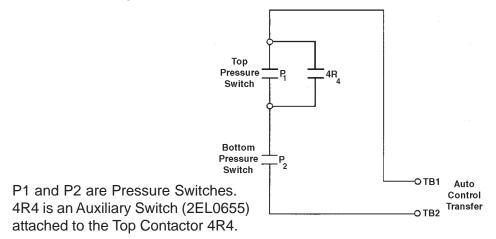
7. RECOMMENDATIONS FOR OFF-SEASON STORAGE

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 assemblies should be carefully protected from the weather and the piping system disconnected from the blower and airlock. Remove the transition connection to the airlock inlet and re-install the weather cover shipped with the airlock. This is important to prevent condensation from collecting in the airlock and blower.

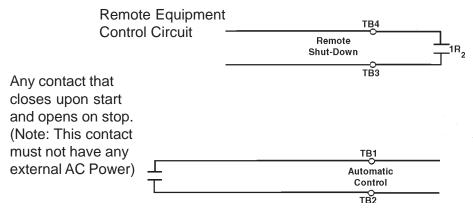
WIRING FOR A SURGE TANK HOOKED TO A TRANS-FER

The Air System will start when both P1 and P2 are closed. As it empties, P1 will open but will not stop the unit due to 4R4 being closed. When P2 opens, the unit will stop.



HOW TO HOOK UP AIR SYSTEM TO REMOTE EQUIPMENT

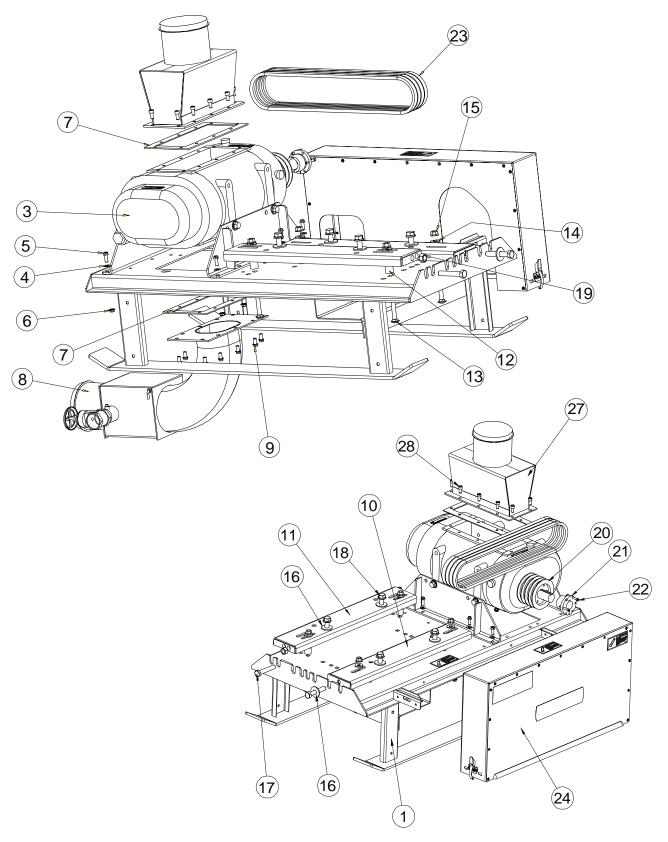
Air System



With the above hook up, the Air System must be started before the remote equipment. If the Air System is manually turned off or turned off from high pressure or an overload, the remote equipment will also turn off.

TB3 and TB4 will have a closed contact (1R2) as long as the air system has the "ready" indicator (located in the control box) on. The automatic control TB1 and TB2 requires a closed contact across them to start the air system unit.

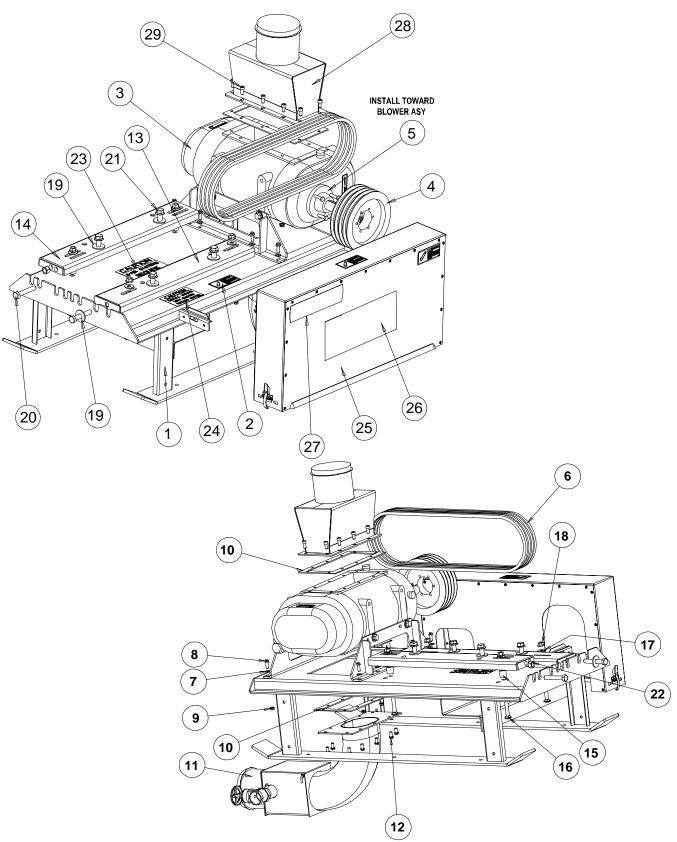
6" (2100) WITH 1760RPM MOTORS BLOWER PARTS



6" BLOWER PARTS WITH 1760RPM MOTORS

AS-0126 AS-0129 AS-0130 AIR SYSTEM - 6IN BLOWER 40HP AS-0130 AIR SYSTEM - 6IN BLOWER 50-60HP AIR SYSTEM - 6IN BLOWER 75HP 1 8011250-RD BLOWER BASE WELD - 6IN DMC AR 1 8011250-OR BLOWER BASE WELD - 6IN FFI AR 2 DC-994 DECAL - DANGER SHEAR POINT 1 BLOWER SUB-ASY 6IN HICAP DMC AR 3 AS-0118-F BLOWER SUB-ASY 6IN HICAP FFI AR 4 S-248 WASHER FLAT 3/8 USS ZN YDP GR2 5 S-9065 BOLT FLNGS 3/8-16 X 1 ZN GR5 6 S-968 NUT FLANGWZ 3/8-16 ZN GR5 7 804A114 GASKET - 6" ROOTS-FLO 8 8041165 BLOWER OUTLET ELBOW ASY - 6IN 1 S-9067 BOLT FLNGS 3/8-16x3/4 ZN GR5 10 804A066-GY MOTOR ADJUST RAIL WELD-6IN RH 11 804A068-GY MOTOR ADJUST RAIL WELD-6IN LH 12 801A116-GY MOTOR MOUNT SPACER - GREY	- X - AR AR 1 AR AR 8 8 2 1 10 1 1	- X AR AR AR AR AR 8 8 2 1 10 1
AS-0130 AIR SYSTEM - 6IN BLOWER 75HP - 1 8011250-RD BLOWER BASE WELD - 6IN DMC AR 1 8011250-OR BLOWER BASE WELD - 6IN FFI AR 2 DC-994 DECAL - DANGER SHEAR POINT 1 3 AS-0118-D BLOWER SUB-ASY 6IN HICAP DMC AR 3 AS-0118-F BLOWER SUB-ASY 6IN HICAP FFI AR 4 S-248 WASHER FLAT 3/8 USS ZN YDP GR2 8 5 S-9065 BOLT FLNGS 3/8-16 X 1 ZN GR5 8 6 S-968 NUT FLANGWZ 3/8-16 ZN GR5 8 7 804A114 GASKET - 6" ROOTS-FLO 2 8 8041165 BLOWER OUTLET ELBOW ASY - 6IN 1 9 S-9067 BOLT FLNGS 3/8-16x3/4 ZN GR5 10 10 804A066-GY MOTOR ADJUST RAIL WELD-6IN RH 1 11 804A068-GY MOTOR ADJUST RAIL WELD-6IN LH 1 12 801A116-GY MOTOR MOUNT SPACER - GREY 4	- AR AR 1 AR AR 8 8 8 1 10	AR AR 1 AR AR 8 8 8 1
1 8011250-RD BLOWER BASE WELD - 6IN DMC AR 1 8011250-OR BLOWER BASE WELD - 6IN FFI AR 2 DC-994 DECAL - DANGER SHEAR POINT 1 3 AS-0118-D BLOWER SUB-ASY 6IN HICAP DMC AR 3 AS-0118-F BLOWER SUB-ASY 6IN HICAP FFI AR 4 S-248 WASHER FLAT 3/8 USS ZN YDP GR2 8 5 S-9065 BOLT FLNGS 3/8-16 X 1 ZN GR5 8 6 S-968 NUT FLANGWZ 3/8-16 ZN GR5 8 7 804A114 GASKET - 6" ROOTS-FLO 2 8 8041165 BLOWER OUTLET ELBOW ASY - 6IN 1 9 S-9067 BOLT FLNGS 3/8-16x3/4 ZN GR5 10 10 804A066-GY MOTOR ADJUST RAIL WELD-6IN RH 1 11 804A068-GY MOTOR ADJUST RAIL WELD-6IN LH 1 12 801A116-GY MOTOR MOUNT SPACER - GREY 4	AR 1 AR AR 8 8 8 1 10	AR AR 1 AR AR 8 8 8 1
1 8011250-OR BLOWER BASE WELD - 6IN FFI AR 2 DC-994 DECAL - DANGER SHEAR POINT 1 3 AS-0118-D BLOWER SUB-ASY 6IN HICAP DMC AR 3 AS-0118-F BLOWER SUB-ASY 6IN HICAP FFI AR 4 S-248 WASHER FLAT 3/8 USS ZN YDP GR2 8 5 S-9065 BOLT FLNGS 3/8-16 X 1 ZN GR5 8 6 S-968 NUT FLANGWZ 3/8-16 ZN GR5 8 7 804A114 GASKET - 6" ROOTS-FLO 2 8 8041165 BLOWER OUTLET ELBOW ASY - 6IN 1 9 S-9067 BOLT FLNGS 3/8-16x3/4 ZN GR5 10 10 804A066-GY MOTOR ADJUST RAIL WELD-6IN RH 1 11 804A068-GY MOTOR ADJUST RAIL WELD-6IN LH 1 12 801A116-GY MOTOR MOUNT SPACER - GREY 4	AR 1 AR AR 8 8 8 1 10	AR 1 AR AR 8 8 2 1
1 8011250-OR BLOWER BASE WELD - 6IN FFI AR 2 DC-994 DECAL - DANGER SHEAR POINT 1 3 AS-0118-D BLOWER SUB-ASY 6IN HICAP DMC AR 3 AS-0118-F BLOWER SUB-ASY 6IN HICAP FFI AR 4 S-248 WASHER FLAT 3/8 USS ZN YDP GR2 8 5 S-9065 BOLT FLNGS 3/8-16 X 1 ZN GR5 8 6 S-968 NUT FLANGWZ 3/8-16 ZN GR5 8 7 804A114 GASKET - 6" ROOTS-FLO 2 8 8041165 BLOWER OUTLET ELBOW ASY - 6IN 1 9 S-9067 BOLT FLNGS 3/8-16x3/4 ZN GR5 10 10 804A066-GY MOTOR ADJUST RAIL WELD-6IN RH 1 11 804A068-GY MOTOR ADJUST RAIL WELD-6IN LH 1 12 801A116-GY MOTOR MOUNT SPACER - GREY 4	AR 1 AR AR 8 8 8 1 10	AR 1 AR AR 8 8 2 1
2 DC-994 DECAL - DANGER SHEAR POINT 1 3 AS-0118-D BLOWER SUB-ASY 6IN HICAP DMC AR 3 AS-0118-F BLOWER SUB-ASY 6IN HICAP FFI AR 4 S-248 WASHER FLAT 3/8 USS ZN YDP GR2 8 5 S-9065 BOLT FLNGS 3/8-16 X 1 ZN GR5 8 6 S-968 NUT FLANGWZ 3/8-16 ZN GR5 8 7 804A114 GASKET - 6" ROOTS-FLO 2 8 8041165 BLOWER OUTLET ELBOW ASY - 6IN 1 9 S-9067 BOLT FLNGS 3/8-16x3/4 ZN GR5 10 10 804A066-GY MOTOR ADJUST RAIL WELD-6IN RH 1 11 804A068-GY MOTOR ADJUST RAIL WELD-6IN LH 1 12 801A116-GY MOTOR MOUNT SPACER - GREY 4	1 AR AR 8 8 8 2 1 10	1 AR AR 8 8 8 2 1
3 AS-0118-D BLOWER SUB-ASY 6IN HICAP DMC AR 3 AS-0118-F BLOWER SUB-ASY 6IN HICAP FFI AR 4 S-248 WASHER FLAT 3/8 USS ZN YDP GR2 8 5 S-9065 BOLT FLNGS 3/8-16 X 1 ZN GR5 8 6 S-968 NUT FLANGWZ 3/8-16 ZN GR5 8 7 804A114 GASKET - 6" ROOTS-FLO 2 8 8041165 BLOWER OUTLET ELBOW ASY - 6IN 1 9 S-9067 BOLT FLNGS 3/8-16x3/4 ZN GR5 10 10 804A066-GY MOTOR ADJUST RAIL WELD-6IN RH 1 11 804A068-GY MOTOR ADJUST RAIL WELD-6IN LH 1 12 801A116-GY MOTOR MOUNT SPACER - GREY 4	AR 8 8 8 2 1 10	AR 8 8 8 2 1
4 S-248 WASHER FLAT 3/8 USS ZN YDP GR2 8 5 S-9065 BOLT FLNGS 3/8-16 X 1 ZN GR5 8 6 S-968 NUT FLANGWZ 3/8-16 ZN GR5 8 7 804A114 GASKET - 6" ROOTS-FLO 2 8 8041165 BLOWER OUTLET ELBOW ASY - 6IN 1 9 S-9067 BOLT FLNGS 3/8-16x3/4 ZN GR5 10 10 804A066-GY MOTOR ADJUST RAIL WELD-6IN RH 1 11 804A068-GY MOTOR ADJUST RAIL WELD-6IN LH 1 12 801A116-GY MOTOR MOUNT SPACER - GREY 4	8 8 8 2 1 10 1	8 8 8 2 1
5 S-9065 BOLT FLNGS 3/8-16 X 1 ZN GR5 8 6 S-968 NUT FLANGWZ 3/8-16 ZN GR5 8 7 804A114 GASKET - 6" ROOTS-FLO 2 8 8041165 BLOWER OUTLET ELBOW ASY - 6IN 1 9 S-9067 BOLT FLNGS 3/8-16x3/4 ZN GR5 10 10 804A066-GY MOTOR ADJUST RAIL WELD-6IN RH 1 11 804A068-GY MOTOR ADJUST RAIL WELD-6IN LH 1 12 801A116-GY MOTOR MOUNT SPACER - GREY 4	8 8 2 1 10 1	8 8 2 1 10
6 S-968 NUT FLANGWZ 3/8-16 ZN GR5 8 7 804A114 GASKET - 6" ROOTS-FLO 2 8 8041165 BLOWER OUTLET ELBOW ASY - 6IN 1 9 S-9067 BOLT FLNGS 3/8-16x3/4 ZN GR5 10 10 804A066-GY MOTOR ADJUST RAIL WELD-6IN RH 1 11 804A068-GY MOTOR ADJUST RAIL WELD-6IN LH 1 12 801A116-GY MOTOR MOUNT SPACER - GREY 4	8 2 1 10 1	8 2 1 10
7 804A114 GASKET - 6" ROOTS-FLO 2 8 8041165 BLOWER OUTLET ELBOW ASY - 6IN 1 9 S-9067 BOLT FLNGS 3/8-16x3/4 ZN GR5 10 10 804A066-GY MOTOR ADJUST RAIL WELD-6IN RH 1 11 804A068-GY MOTOR ADJUST RAIL WELD-6IN LH 1 12 801A116-GY MOTOR MOUNT SPACER - GREY 4	2 1 10 1	2 1 10
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9 S-9067 BOLT FLNGS 3/8-16x3/4 ZN GR5 10 10 804A066-GY MOTOR ADJUST RAIL WELD-6IN RH 1 11 804A068-GY MOTOR ADJUST RAIL WELD-6IN LH 1 12 801A116-GY MOTOR MOUNT SPACER - GREY 4	10 1	10
10 804A066-GY MOTOR ADJUST RAIL WELD-6IN RH 1 11 804A068-GY MOTOR ADJUST RAIL WELD-6IN LH 1 12 801A116-GY MOTOR MOUNT SPACER - GREY 4	1	
11 804A068-GY MOTOR ADJUST RAIL WELD-6IN LH 1 12 801A116-GY MOTOR MOUNT SPACER - GREY 4		4
12 801A116-GY MOTOR MOUNT SPACER - GREY 4	1	1
		1
	4	4
13 2FH0677 BOLT CARG 1/2-13x2-1/2 GR5 PLT 4	4	4
14 S-2120 WASHER FLAT 1/2 SAE 4	4	4
15 S-8506 NUT FLANGWZ 1/2-13 ZN 4	4	4
16 S-858 WASHER FLAT 5/8 USS ZN 5	5	5
17 2FH1043 BOLT 5/8-11x3-1/2 HHTB GR2 PLT 2	2	2
18 S-9264 BOLT FLNGS 5/8-11 X 2 ZN GR5 4	4	4
19 S-4110 NUT HEX 5/8-11 ZN/YEL DI GR5 1	1	1
20 PT0736 PULLEY-4.95"ODxSD BUSHING 4AB 1	-	-
20 PT0668 PULLEY-4.95"ODxSD BUSHING 5AB -	1	-
20 PT0669 PULLEY-4.95"ODxSD BUSHING 6AB -	-	1
21 GC06682 BUSHING- (QD STYLE)1-7/16 BORE 1	1	1
22 2FH5055 SCREW 1/4-20x1-3/4 GR8 SHCS 2 23 MHC00028 BELT-V BX60 4	2 5	2 6
	1	1
24 8011256 SHIELD ASY - BLOWER STD 1 25 804L001 DECAL- TRANSFER 2100 AR	AR	AR
26 DC-1330 LOGO DECAL- DMC 2-7/8 X 9 AR		AR
26 420-1443-1 DECAL - FFI 14.5 X 12 AR	AR AR	AR
27 8041144-RD BLOWER INLET WELD - 6IN RED AR	AR	AR
27 8041144-OR BLOWER INLET WELD - 6IN ORG AR	AR	AR
28 S-8898 SCREW MS 3/8-16x3/4 SHCS 10	10	10
25 10-0030 COREW WG 3/0-10x3/4 01100	10	10
MOTORS & DRIVE PARTS (NOT SHOWN)		
4000-3 MOTOR 40HP 3PH 1760RPM X	_	
5000-3 MOTOR 50HP 3PH 1760RPM -	X	
6000-3 MOTOR 60HP 3PH 1760RPM -	X	[]
7500-3 MOTOR 3011 1760RPM -	^	X
PT0737 SHEAVE 4GR B8.6 SK X	1 -	^
PT0784 BUSHING QD 2.1/8" BORE SK X	1 -	l ₋ l
PT0671 PULLEY 8.95"OD X SF BUSH-5AB -	Х	_
GT3-0068 BUSHING QD SF 2-1/8 (Use with 50HP)	X	_
PT0672 PULLEY 8.95"OD SF BUSH-6AB	-	Х
PT0786 BUSHING QD STYLE SF 2-3/8 (60 & 70HP)	Х	X

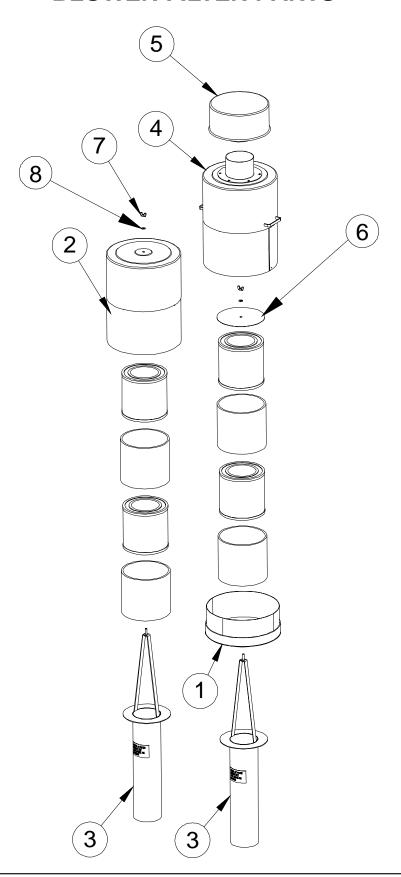
6" (3500) WITH 3500RPM MOTORS BLOWER PARTS



6" BLOWER PARTS WITH 3500RPM MOTORS

		TARIS WIIII SSUURFINI			
ITEM	PART NO.	DESCRIPTION	QTY	QTY	QTY
	AS-0126	AIR SYSTEM - 6IN BLOWER 40HP	х	_	_
	AS-0129	AIR SYSTEM - 6IN BLOWER 50-60HP	-	х	_
	AS-0130	AIR SYSTEM - 6IN BLOWER 75HP	_	-	х
1	AS-0207-RD	BLOWER BASE WELD - 6IN 3500RPM RED	1AR	1AR	1AR
1	AS-0207-OR	BLOWER BASE WELD - 6IN 3500RPM ORG	1AR	1AR	1AR
2	DC-994	DECAL - DANGER SHEAR POINT	1	1	1
3	AS-0118-D	BLOWER SUB-ASY 6IN HICAP DMC	1AR	1AR	1AR
3	AS-0118-F	BLOWER SUB-ASY 6IN HICAP FFI	1AR	1AR	1AR
4	PT0737	SHEAVE 4GR B8.6 SK	1	-	-
4	PT0671	SHEAVE 5GR B8.6 SF	-	1	-
4	PT0672	SHEAVE 6GR B8.6 SF	-	-	1
5	GC06687	BUSHING SK X 1-7/16" BORE	1	-	-
5	GC07551	BUSHING SF X 1-7/16" BORE	-	1	1
6	MHC00616	BELT-V BX66	4	5	6
7	S-248	WASHER FLAT 3/8 USS ZN YDP GR2	8	8	8
8	S-9065	BOLT FLNGS 3/8-16 X 1 ZN GR5	8	8	8
9	S-968	NUT FLANGWZ 3/8-16 ZN GR5	8	8	8
10	804A114	GASKET - 6" ROOTS-FLO	2	2	2
11	8041165	BLOWER OUTLET ELB ASY - 6IN	1	1	1
12	S-9067	BOLT FLNGS 3/8-16x3/4 ZN GR5	10	10	10
13	804A066-GY	MOTOR ADJUST RAIL - 6IN RH GRAY	1	1	1
14	804A068-GY	MOTOR ADJUST RAIL - 6IN LH GRAY	1	1	1
15	801A116-GY	MOTOR MOUNT SPACER - GRAY	4	4	4
16	2FH0677	BOLT CARG 1/2-13x2-1/2 GR5 PLT	4	4	4
17	S-2120	WASHER FLAT 1/2 SAE	4	4	4
18	S-8506	NUT FLANGW Z 1/2-13 ZN	4	4	4
19	S-858	WASHER FLAT 5/8 USS ZN	5	5	5
20	2FH1043 S-9264	BOLT 5/8-11x3-1/2 HHTB GR2 PLT BOLT FLNGS 5/8-11 X 2 ZN GR5	2 4	2 4	2 4
21	S-9264 S-4110	NUT HEX 5/8-11 ZN/YEL DI GR5	1	1	1
22					-
23	DC-1867	CAUTION - REQUIRES 3500RPM MOTOR	1	1	1
24 25	DC-1869 AS-0251	CAUTION - INSTALL SHEAVE BLOWER SHIELD-ASY 6" AIR SYS 3500RPM	1	1 1	1
		LOGO DECAL - DMC 24 x 6-11/32		-	-
26 26	4007001 420-1443-1	DECAL - FFI 14.5 X 12	1AR 1AR	1AR 1AR	1AR 1AR
20 27	804L001	DECAL - TRANSFER 2100	1AR	1AR	1AR
28	8041144-RD	BLOWER INLET WELD - 6IN RED	1AR	1AR	1AR
28	8041144-ND	BLOWER INLET WELD - 6IN ORG	1AR	1AR	1AR
29	S-8898	SCREW MS 3/8-16x3/4 SHCS	10	10	10
	0 0000	MOTORS & DRIVE PARTS (NOT SHOWN)	10	10	10
		MOTORO & BRIVE I ARTO (NOT OHOWN)			
	CH-5582	MOTOR 40HP 3PH 3500RPM	Х	-	-
	CH-5583	MOTOR 50HP 3PH 3500RPM	-	Х	-
	6000-3-3500	MOTOR 60HP 3PH 3500RPM	-	Х	-
	7500-3-3500	MOTOR 75HP 3PH 3500RPM	-	-	Х
	PT0737	SHEAVE 4GR B8.6 SK	Х	-	-
	CE-00617	BUSHING SK 1-7/8" BORE QD STYLE	Х	-	-
	PT0671	PULLEY 8.95"OD X SF BUSH-5AB	-	Х	-
	MHC01162	BUSHING SF 1-7/8" BORE QD STYLE	-	Χ	Χ
	PT0672	PULLEY 8.95"OD SF BUSH-6AB	-	-	Χ

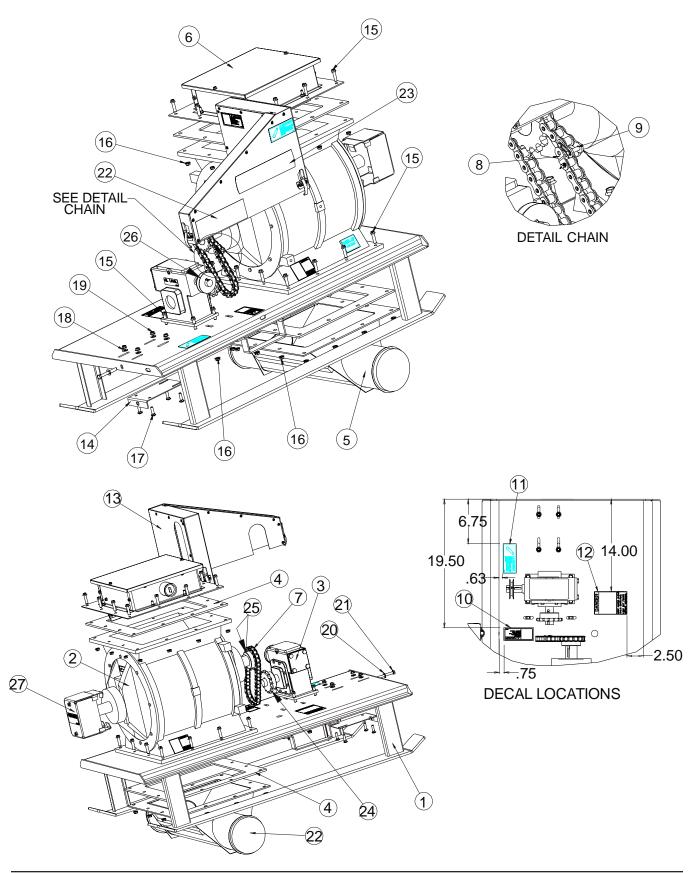
BLOWER FILTER PARTS



BLOWER FILTER PARTS

Index	Part #	Description	Qty.
1	8041190-GY	Precleaner Base Weldment - 6in	1
		Painted Gray	
2	804A086-GY	Air Filter Canister Weldment - 6in	1
		Painted Gray	
3	804A110	Filter Base Assembly - 6in	1
4	8041187	Precleaner Canister Assembly - 6in	1
5	MS5467	Precleaner - 6in Inlet Centri #EX-60	1
		(500-950 CFM)	
6	8021228	Filter Top Plate - 4in, 5in, & 6in	
		Precleaner	
7	S-1451	Wing Nut - 3/8"-16 UNC Zinc	1
		Plated	
8	S-248	Flat Washer - Standard 3/8" Zinc	1
		Plated	

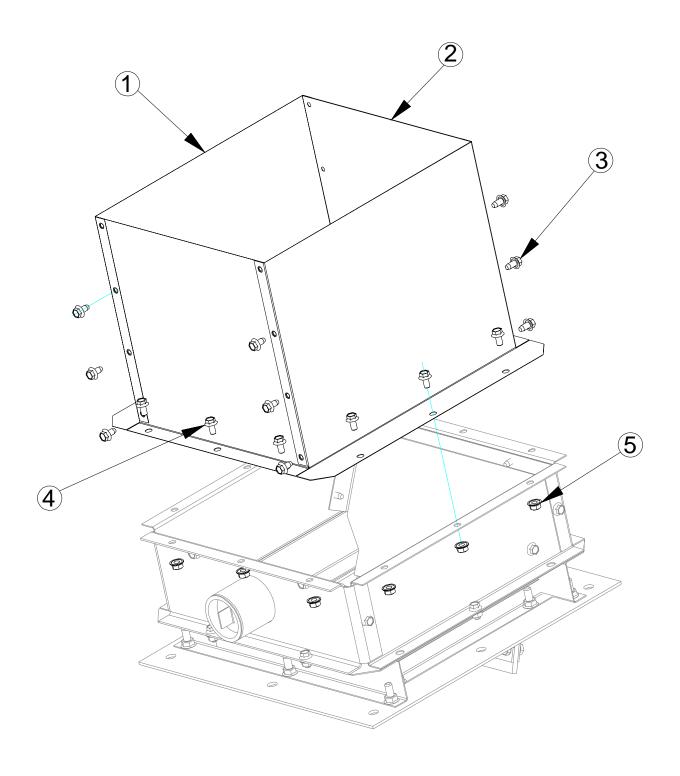
6" AIRLOCK PARTS



6" AIRLOCK PARTS

ITEM	PART NO.	DESCRIPTION	QTY		
1	8041150-GY	AIRLOCK BASE WELD - 6IN GREY	1		
2	AS-0119	AIRLOCK SUB-ASY-6" SYSTEM GREY	1		
3	AS-0114	AIR SYS-ALK GEARBOX ASY-RED	1		
4	804A113	GASKET - 6IN AIRLOCK	2		
5	8041210-GY	AIRLOCK HOPPER WELD - 6IN GREY	1		
6	AS-0096	AIRLOCK INLET ASY - 6"	1		
7	804A053	ROLLER CHAIN - 6" AIRLOCK	1		
8	PT1054	LINK - OFFSET, #60 3/4PITCH	1		
9	PT1051	LINK - CONNECTING, #60 3/4PITCH	1		
10	DC-1382	DECAL - CHAIN DANGER 1.75" X 4"	1		
11	DC-994	DECAL - DANGER SHEAR POINT	1		
12	N10090	DECAL - CAUTION AIRLOCK	1		
13	804A074	SHIELD ASY - 6IN AIRLOCK	1		
14	8011342-GY	AIRLOCK MTR ADJUST PLATE GREY	1		
15	S-9064	BOLT FLNG 3/8-16x1-1/2 ZN GR5	28		
16	S-968	NUT FLANGW Z 3/8-16 ZN GR5	28		
17	S-8059	BOLT CARG 5/16-18x1 ZN GR2	4		
18	S-845	WASHER FLAT 5/16 USS ZN YDP	4		
19	S-3611	NUT FLANGWZ 5/16-18 ZN YDP	4		
20	S-248	WASHER FLAT 3/8 USS ZN YDP GR2	1		
21	S-8132	BOLT HHTB 3/8-16x3 ZN GR2	1		
22	DC-1330	LOGO DECAL - DMC 2-7/8 X 9	AR		
23	804L001	DECAL - TRANSFER 2100	AR		
23	420-1507-3	LOGO DECAL - FFI	AR		
24	PT1106	SPROCKET - HUB TYPE 1-1/4" ID	1		
25	PT1107	SPROCKET - HUB TYPE 1-3/4" ID	1		
26	PT0622	PULLEY - FLAT 3.00 OD X 1.00 ID 1A	1		
27	AS-0117	AIRLOCK SHAFT GUARD ASSEMBLY	1		
	MOTORS & DRIVE PARTS (NOT SHOWN)				
	100-1	MOTOR 1HP 1PH 56 TEFC 5/8 SHAFT	X		
	002-1087-2	MOTOR 1HP 3PH 56 TEFC 5/8 SHAFT	Χ		
	PT0483	BELT-V A31	Χ		
	PT0618	PULLEY 3.25"OD x .62"ID - 1A	Χ		

AIRLOCK INLET TRANSITION ASSEMBLY



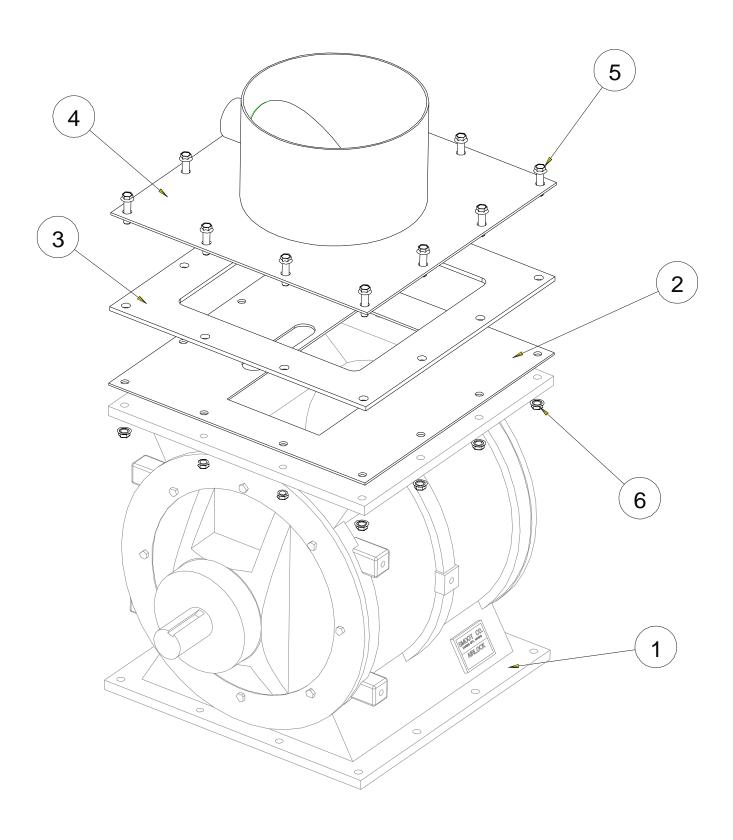
AIRLOCK INLET TRANSITION ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
1	AS-0077	AIRLOCK INLET TRANS - RH & LH	2
2	AS-0078	AIRLOCK TRANS - FRONT & BACK	2
3	S-9028	SCREW SMSAB 1/4-14X1/2 HWH ZN	12
4	S-8857	BOLT FLNGS 1/4-20x1/2 ZN GR5	10
5	S-7215	NUT FLANGW Z 1/4-20 ZINC	10

INSTALLATION OF AIRLOCK TRANSISTION TO DRYER DISCHARGE.

- REMOVE THE WEATHER COVER FROM THE AIRLOCK INLET ASSEMBLY.
- 2. ASSEMBLE (2) AS-0077 (ITEM 1) AND (2) AS-0078 TOGETHER WITH S-9028 (ITEM 3) SELF-TAPPER SCREWS AS SHOWN IN THE DIAGRAM.
- 3. DETERMINE WHAT DIRECTION THE AIRLOCK GRAIN LINE IS TO RUN. ORIENT THE TRANSISTION ASSEMBLY TO CORRESPOND WITH THE LINE DIRECTION. ATTACH THE TRANSISTION ASSEMBLY TO THE AIRLOCK INLET USING S-8857 (ITEM 4) AND S-7215 (ITEM 5).
- 4. TRIM THE TOP OF THE TRANSISTION ASSEMBLY TO MATCH THE HEIGHT OF THE DRYER DISCHARGE.

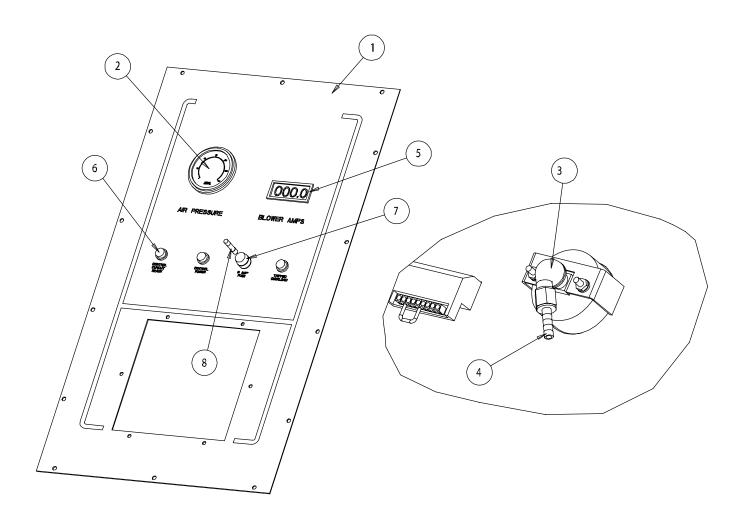
INLET TUBE KIT PARTS



INLET TUBE KIT PARTS

ITEM	PART NO.	DESCRIPTION	QTY	QTY
	AS-0122 AS-0123	TUBE INLET KIT-6IN ALK 40HP TUBE INLET KIT-6IN ALK 50-75HP	Х	х
1	AS-0119	AIRLOCK SUB-ASY 6IN SYS GRAY	REF	REF
2	8041176	SHEAR BRACKET & WIPER ASY	1	-
2	8041177	SHEAR BRACKET & WIPER ASY	-	1
3	804A113	GASKET - 6IN AIRLOCK	1	1
4	804A044	INTAKE SPOUT- 6" AIRLOCK 10IN	1	-
4	804A104	INTAKE SPOUT- 6" AIRLOCK 12IN	-	1
5	S-9064	BOLT FLNG 3/8-16x1-1/2 ZN	12	12
6	S-968	NUT FLANGWZ 3/8-16 ZN GR5	12	12

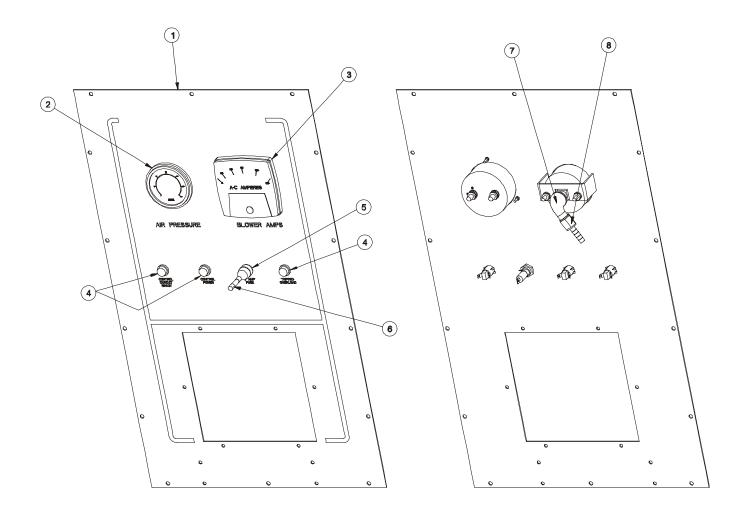
PANEL MODULE ASSEMBLY - DIGITAL



PANEL MODULE ASSEMBLY - DIGITAL

ITEM	PART NO.	DESCRIPTION	QTY
1	8015075D	PANEL-W/SILKSCREEN DIGIAMP DMC	1AR
1	8015121F	PANEL-W/SILKSCREEN DIGIAMP FFI	1AR
2	PT1125	GAUGE- (PRESSURE) 2-1/2"15PSI	1
3	4FH0452	FIT-ELBOW,STREET(90) 1/4 NPT	1
4	4FH1122	FIT-HOSE BARB,1/4X1/4 BRASS	1
5	AS-0211A	DIGITAL AMP METER ASY W/JUMPER	1
6	TFH-2021	LIGHT RED NEON NO LEADS 125VAC	3
7	1EL0826	FUSEHOLDER-PANMNT(CSA)30A 250V	1
8	1EL0754	FUSE- AGC5 250V 5AMP	1

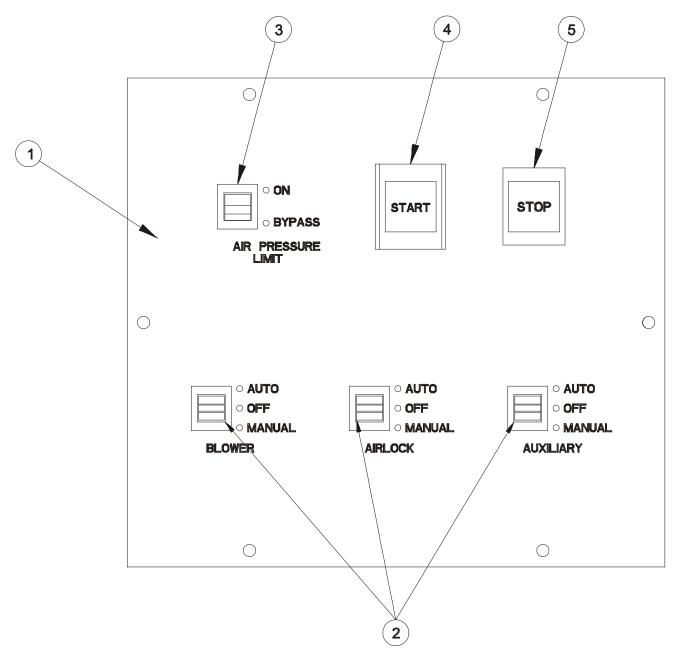
PANEL MODULE ASSEMBLY - ANALOG



PANEL MODULE ASSEMBLY - ANALOG

ITEM	PART NO.	DESCRIPTION	40/50HP QTY	230V 60/75HP QTY
1	8015075	SINGLE MAIN PANEL DEADFRONT-DMC	1	1
1	8015121	SINGLE MAIN PANEL DEADFRONT-FFI	1	1 1
2	PT1125	GAUGE- (PRESSURE) 2-1/2" 15PSI	1	1 1
3	2EL0290	AMP METER PANEL 0-150 AMP	1	-
3	2EL0687	AMP METER PANEL 0-200 AMP	-	1
4	TFH-2021	LIGHT RED NEON SPADE TERM 125VAC	3	3
5	1EL0826	FUSEHOLDER-PANEL MOUNT 30A 250V	1	1
6	1EL0754	FUSE- AGC5 250V 5AMP	1	1
7	4FH0452	FITTING-ELBOW - STREET(90) 1/4 NPT	1	1
8	4FH1122	FITTING-HOSE BARB 1/4 x 1/4 BRASS	1	1 1

SWITCH PANEL ASSEMBLY - STANDARD

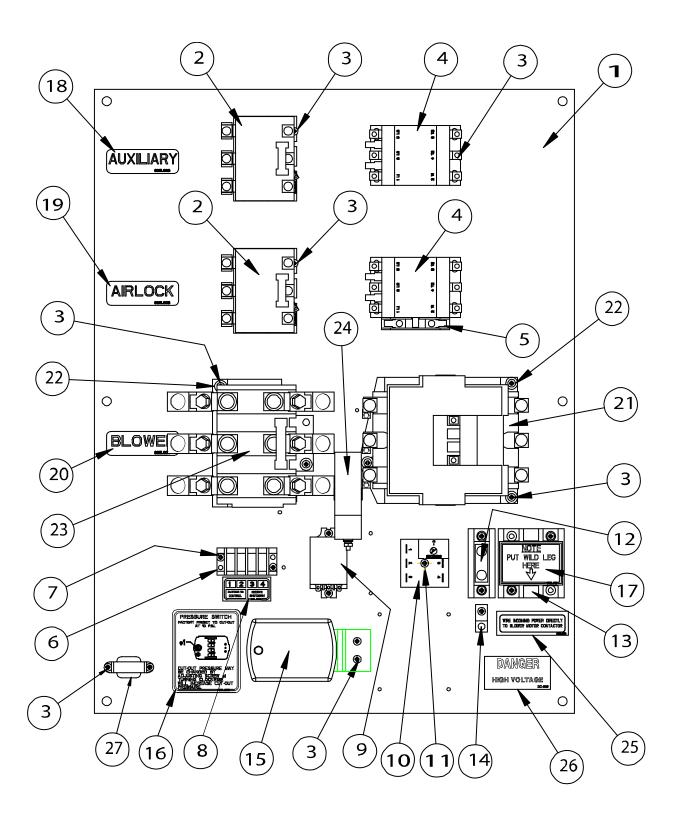


SWITCH PANEL ASSEMBLY - STANDARD

ITEM	PART NO.	DESCRIPTION	QTY
1	8015078	SWITCH PANEL - STANDARD	1
2	2EL0668	LEVER SWITCH - SPDT (ON-OFF-ON)	3
3	2EL0659	LEVER SWITCH - SPDT (ON-NONE-ON)	1
4	2EL0618	PUSHBUTTON SWITCH - SPST (START)	1
5	2EL0619	PUSHBUTTON SWITCH - SPST (STOP)	1

CONTROL PANELS

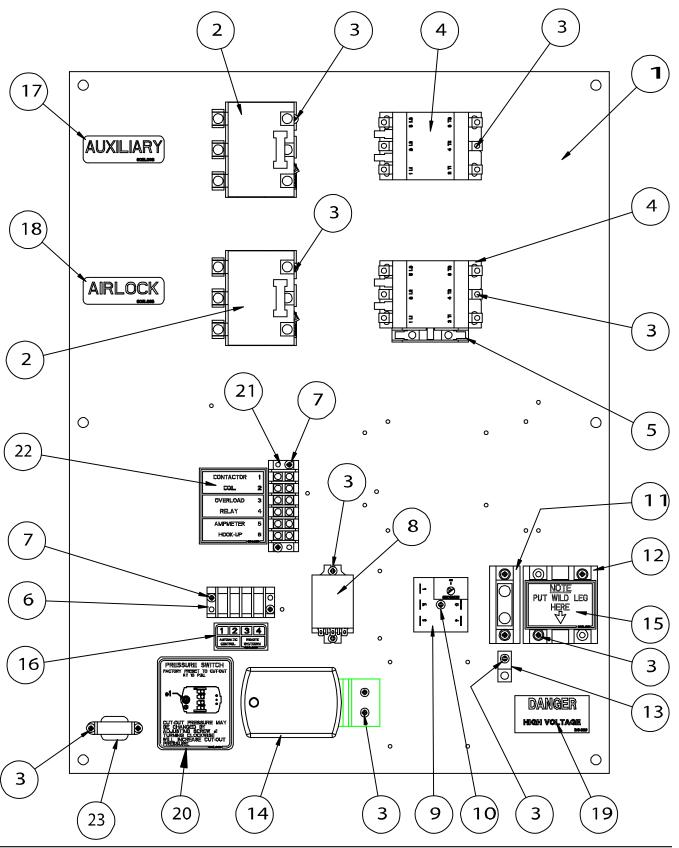
STANDARD CONTROL PANEL - 230V 40-50HP



STANDARD CONTROL PANEL - 230V 40-50HP

			Analog	Digital
ITEM	PART NO.	DESCRIPTION	QTY	QTY
1	8015079	AIR SYS - CONTROL PANEL (SNGL)	1	1
2	2EL0281	RELAY THRML OVELOAD 26AMP	2	2
3	S-1158	SCREW TCSF #8-32x1/2 PHP ZN	22	24
4	2EL0243	40A CONTACTOR - MAGNETIC(CSA)	2	2
5	2EL0648	CONTACT - AUXILIARY MOTOR CONTACTOR	1	1
6	1773	TERMINAL BLOCK 4 POLE 2 ROW	1	1
7	S-6557	SCREW TCSF #8-32x3/4 PHP ZN	2	2
8	801L006	DECAL - TERMINAL STRIP	1	1
9	2EL0273	RELAY - 3PDT 5A 120V DELTRO	1	1
10	801E047	TIMER - OFF DELAY, 15 SEC ASY	1	1
11	S-7124	SCREW TCSF #8-32x1 PHP ZN	1	1
12	1EL0909	PWR DIST. BLK 175A 600V 1P	1	1
13	C-8018	TERMINAL BLOCK 185A 3POLE 1:4	1	1
14	E160-1137	LUG GROUND - #TA-2 (CSA)	1	1
15	801E018	HIGH PRESSURE SWITCH ASY	1	1
16	801L003	DECAL - PRESSURE SWITCH	1	1
17	602L013	DECAL - WILD LEG	1	1
18	802L006	DECAL - AUXILIARY	1	1
19	802L005	DECAL - AIRLOCK	1	1
20	802L004	DECAL - BLOWER	1	1
21	2EL0249	CONTACTOR - 120AMP 120V COIL	1-40HP	1-40HP
21	056-2275-8	CONTACTOR - 150AMP 120V COIL IEC	1-50HP	1-50HP
22	S-3674	WASHER FLAT #10 SAE ZN	5	5
23	2EL0271	RELAY - OVERLOAD SIZE 4 133AMP	1	1
24	2EL0307	TRANSFORMER - CURRENT 150:5RATIO	1	-
24	2EL0368	TRANSFORMER - CURRENT 200:5RATIO	-	1
25	801L019	DECAL - WIRE INCOMING PWR	1	1
26	DC-889	DECAL - DANGER HIGH VOLTAGE ALL PF	1	1
27	AS-0211T	5AMP LIMIT TRANSFORMER-DIGITAL AMP	-	1

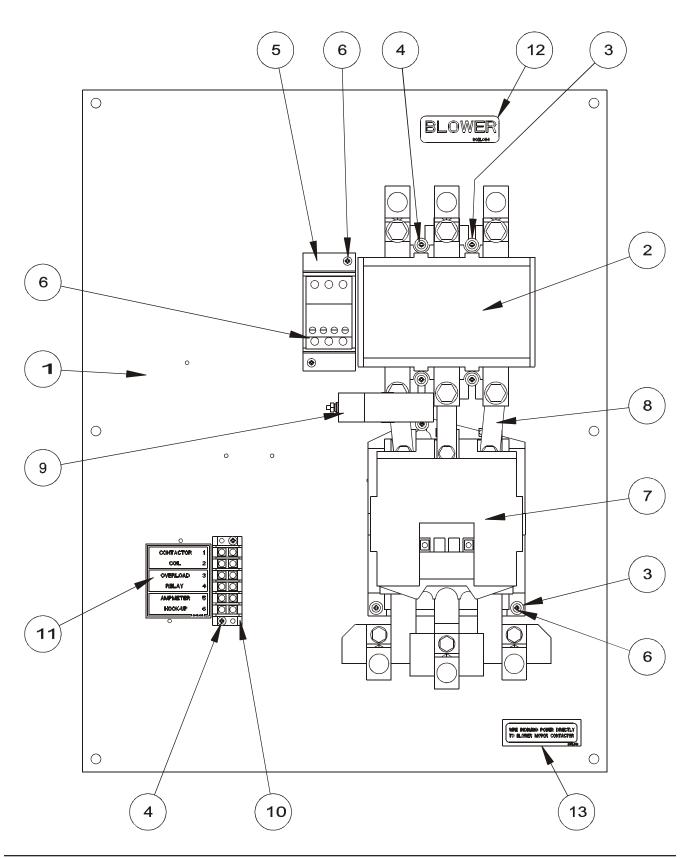
CONTROL PANEL ASSEMBLY - 230V 60-75HP



CONTROL PANEL ASSEMBLY - 230V 60-75HP

ITEM	PART NO.	DESCRIPTION	Analog QTY	Digital QTY
1	8015079	AIR SYS-CONTROL PANEL (SNGL)	1	1
2	2EL0281	RELAY THRML OVELOAD 26AMP	2	2
3	S-1158	SCREW TCSF #8-32x1/2 PHP ZN	17	19
4	2EL0243	40A CONTACTOR- MAGNETIC(CSA)	2	2
5	2EL0648	CONTACT- AUXILIARY MOTOR CONTACTOR	1	1
6	1773	TERMINAL BLOCK 4 POLE 2 ROW	1	1
7	S-6557	SCREW TCSF #8-32x3/4 PHP ZN	4	4
8	2EL0273	RELAY- 3PDT 5A 120V DELTRO	1	1
9	801E047	TIMER- OFF DELAY, 15 SEC ASY	1	1
10	S-7124	SCREW TCSF #8-32x1 PHP ZN	1	1
11	1EL0909	PWR DIST. BLK 175A 600V 1P	1	1
12	C-8018	TERMINAL BLOCK 185A 3POLE 1:4	1	1
13	E160-1137	LUG GROUND,#TA-2 (CSA)	1	1
14	801E018	HIGH PRESSURE SWITCH ASY	1	1
15	602L013	DECAL- WILD LEG	1	1
16	801L006	DECAL- TERMINAL STRIP	1	1
17	802L006	DECAL - AUXILIARY	1	1
18	802L005	DECAL- AIRLOCK	1	1
19	DC-889	DCL,DANGER HIGH VOLTAGE ALL PF	1	1
20	801L003	DECAL- PRESSURE SWITCH	1	1
21	1EL0877	TERM BLK 6P 30A 300V (CSA)	1	1
22	804L003	DECAL - TERMINAL BLOCK 6 POS	1	1
23	AS-0211T	5AMP LIMIT TRANSFORMER-DIGITAL AMP	-	1

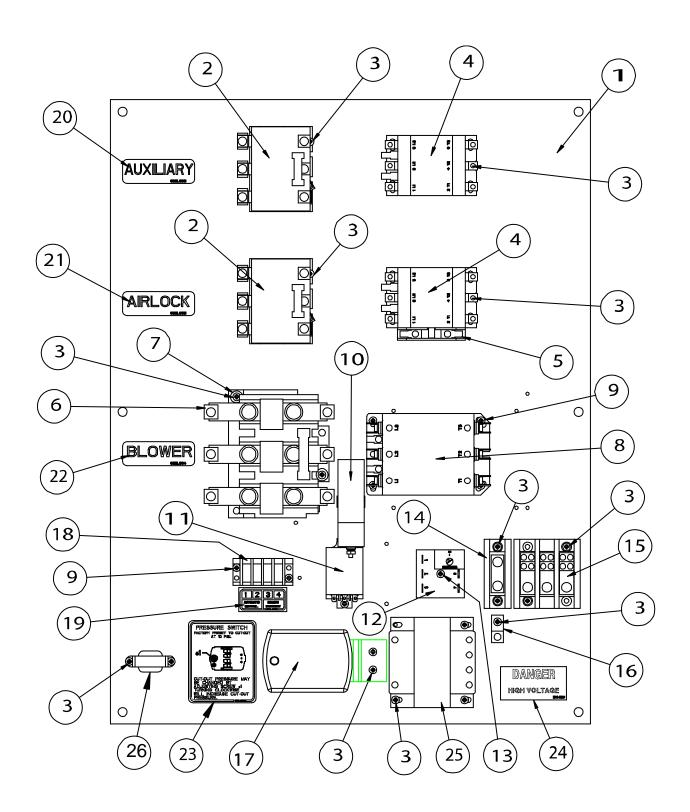
BLOWER PANEL ASSEMBLY - 230V 60-75HP



BLOWER PANEL ASSEMBLY - 230V 60-75HP

ITEM	PART NO.	DESCRIPTION	QTY
1	8015089	AIR SYS - CONTROL PANEL 60-75HP	1
2	2EL0284	RELAY - IEC STYLE OVERLOAD 160-250A	1
3	S-3674	WASHER FLAT #10 SAE ZN	7
4	S-6557	SCREW TCSF #8-32x3/4 PHP ZN	6
5	801E066	BRACKET - ADJ. OVERLOAD	1
6	S-1158	SCREW TCSF #8-32x1/2 PHP ZN	7
7	2EL0258	CONTACTOR - MAGNETIC 230A	1
8	801E065	JUMPER BAR - MOTOR STARTER	3
9	2EL0368	TRANSFORMER - CURRENT 200:5RATIO	1
10	1EL0877	TERM BLK 6P 30A 300V (CSA)	1
11	804L003	DECAL - TERMINAL BLOCK 6 POS	1
12	802L004	DECAL - BLOWER	1
13	801L019	DECAL - WIRE INCOMING POWER	1

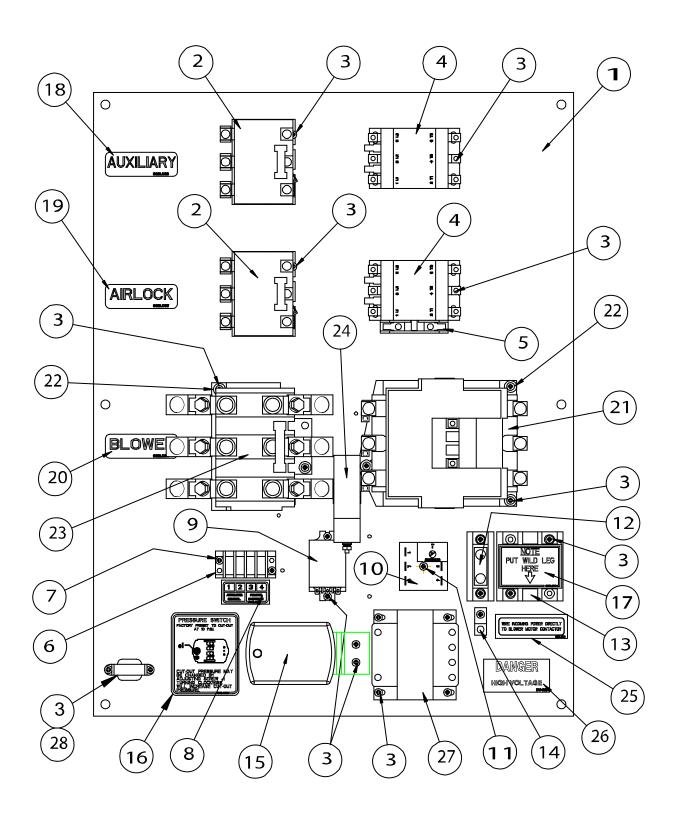
STANDARD CONTROL PANEL - 460V 40-60HP



STANDARD CONTROL PANEL - 460V 40-60HP

ITEM	PART NO.	DESCRIPTION	Analog QTY	Digital QTY
1	8015079	AIR SYS-CONTROL PANEL (SNGL)	1	1
2	2EL0281	RELAY THRML OVELOAD 26AMP	2	2
3	S-1158	SCREW TCSF #8-32x1/2 PHP ZN	23	25
4	2EL0243	40A CONTACTOR - MAGNETIC(CSA)	2	2
5	2EL0648	CONTACT - AUXILIARY MOTOR CONTACTOR	1	1
6	2EL0282	RELAY - THRML OVERLD(CSA) 86AMP	1	1
7	S-3674	WASHER FLAT #10 SAE ZN	2	2
8	2EL0248	CONTACTOR - MAGNETIC(CSA) 90 AMP	1	1
9	S-6557	SCREW TCSF #8-32x3/4 PHP ZN	6	6
10	2EL0307	TRANSFORMER - CURRENT 150:5RATIO	1	-
10	2EL0368	TRANSFORMER - CURRENT 200:5RATIO	-	1
11	2EL0273	RELAY - 3PDT 5A 120V DELTRO	1	1
12	801E047	TIMER - OFF DELAY, 15 SEC ASY	1	1
13	S-7124	SCREW TCSF #8-32x1 PHP ZN	1	1
14	1EL0909	PWR DIST. BLK 175A 600V 1P	1	1
15	C-8018	TERMINAL BLOCK 185A 3POLE 1:4	1	1
16	E160-1137	LUG GROUND - #TA-2 (CSA)	1	1
17	801E018	HIGH PRESSURE SWITCH ASY	1	1
18	1773	TERMINAL BLOCK 4 POLE 2 ROW	1	1
19	801L006	DECAL - TERMINAL STRIP	1	1
20	802L006	DECAL - AUXILIARY	1	1
21	802L005	DECAL - AIRLOCK	1	1
22	802L004	DECAL - BLOWER	1	1
23	801L003	DECAL - PRESSURE SWITCH	1	1
24	DC-889	DECAL - DANGER HIGH VOLTAGE ALL PF	1	1
25	2EL0308	TRANSFORMER-460V - 120V .15KVA	1	1
26	AS-0211T	5AMP LIMIT TRANSFORMER-DIGITAL AMP	-	1

CONTROL PANEL ASSEMBLY - 460V 75HP



CONTROL PANEL ASSEMBLY - 460V 75HP

			Analog	Digital
ITEM	PART NO.	DESCRIPTION	QTY	QTY
1	8015079	AIR SYS-CONTROL PANEL (SNGL)	1	1
2	2EL0281	RELAY THRML OVELOAD 26AMP	2	2
3	S-1158	SCREW TCSF #8-32x1/2 PHP ZN	20	22
4	2EL0243	40A CONTACTOR- MAGNETIC(CSA)	2	2
5	2EL0648	CONTACT- AUXILIARY MOTOR CONTACTOR	1	1
6	1773	TERMINAL BLOCK 4 POLE 2 ROW	1	1
7	S-6557	SCREW TCSF #8-32x3/4 PHP ZN	2	2
8	801L006	DECAL- TERMINAL STRIP	1	1
9	2EL0273	RELAY- 3PDT 5A 120V DELTRO	1	1
10	801E047	TIMER- OFF DELAY, 15 SEC ASY	1	1
11	S-7124	SCREW TCSF #8-32x1 PHP ZN	1	1
12	1EL0909	PWR DIST. BLK 175A 600V 1P	1	1
13	C-8018	TERMINAL BLOCK 185A 3POLE 1:4	1	1
14	E160-1137	LUG GROUND,#TA-2 (CSA)	1	1
15	801E018	HIGH PRESSURE SWITCH ASY	1	1
16	801L003	DECAL- PRESSURE SWITCH	1	1
17	602L013	DECAL- WILD LEG	1	1
18	802L006	DECAL - AUXILIARY	1	1
19	802L005	DECAL- AIRLOCK	1	1
20	802L004	DECAL - BLOWER	1	1
21	2EL0249	CONTACTOR - 120AMP 120V COIL	1	1
22	S-3674	WASHER FLAT #10 SAE ZN	5	5
23	2EL0271	RELAY - OVERLOAD SIZE 4 133AMP	1	1
24	2EL0307	TRANSFORMER-CURRENT 150:5RATIO	1	-
24	2EL0368	TRANSFORMER-CURRENT 200:5RATIO	-	1
25	801L019	DECAL- WIRE INCOMING PWR	1	1
26	DC-889	DCL,DANGER HIGH VOLTAGE ALL PF	1	1
27	2EL0308	TRANSFORMER-460V - 120V .15KVA	1	1
28	AS-0211T	5AMP LIMIT TRANSFORMER-DIGITAL AMP	-	1

HOW TO HANDLE HANDLING COUPLINGS

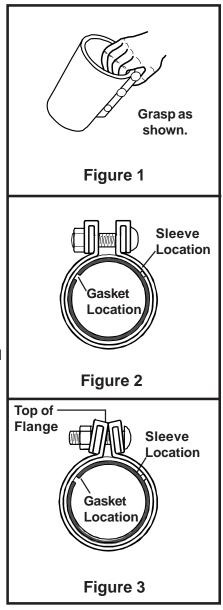
Couplings are shipped ready-to-install... do not disassemble. To
prevent gasket from slipping out of proper position, always grasp
coupling as shown in Figure 1. This will save time by maintaining
proper position of gasket and sleeve in relation to shell and flange.

Installing Couplings

- Confirm pipe O.D. size you intend joining. Each compression coupling has been factory inspected for proper O.D. size before shipment.
- 2. Be sure outside surface or pipe is dry, and free of dirt, grease or external burrs. (Burrs & jagged pipe ends can cut gasket; dirt & grease can cause coupling slippage.)
- 3. Grasp coupling as shown in Figure 1 to keep gasket and sleeve (and gasket protector when used) in separate quadrants, as shown in Figure 2. Be sure gasket teeth mesh and do not overlap.
- 4. Slide coupling over one pipe past end, then butt pipe ends (a small gap 1/16 maximum at butt joint will not reduce coupling performance). Slide coupling back until coupling and gasket protector are centered over joint. Use care when sliding coupling into place ...avoid wrinkling of gasket or gasket protector.
- 5. The gasket protector provides a bleed path for static electricity.
- 6. Partially tighten bolts evenly as follows:
 - 1/2 bolt size 45 ft. lbs. torque
 - 5/8 bolt size 65 ft. lbs. torque
 - 3/4 bolt size 95 ft. lbs. torque

(Where SAE GR 5 5/8 bolts are specified tighten to 95 ft. lbs. For couplings with aluminum shell and inner sleeve do not exceed 40 ft. lbs.)

7. When properly and evenly tightened to the recommended torque the coupling installation is complete. The top edges of the flanges will touch and flanges appear as a vee when viewed from the end, as shown in Figure 3. **DO NOT** attempt tightening bolts to flatten flange faces together, as this exceeds recommended limits.



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	 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 factory)

ELECTRICAL TROUBLE SHOOTING

PROBLEM	SOLUTION
Unit will not start, "ready light" is not on.	 Check AC power supply. Check control box fuses. Thermal overload tripped (overload indicator is on). Air pressure limit switch may be misadjusted (less than 5 PSI). If pressure switch is not reset, turn pressure adjustment clockwise until switch resets. Be sure "start" switch is pushed.
Unit will not start, the "ready light" is on.	 Blower, airlock and auxiliary switches must be in either "Auto" or Manual" to operate. The automatic control not wired correctly or not working. (Requires a closed contact across TB1 and TB2 to auto start).
Blower Motor Trips Thermal Overload	 Check current draw using amp meter. The motor should not be pulling more current than the name plate specifies. Reduce feed rate if excessive. Check heater sizes. Check for loose connections and/or too small gauge wire. Wrong voltage (either high or low). Too much load due to obstructions, bad bearings or dry gears.
No Control Voltage	Control Fuse inside the control box is down. Check main power for proper voltage.

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