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Technical Reference—Airbl Chuteloader

Read the separate Safety Manual before installing, operating, or servicing

PELLERIN MILNOR CORPORATION POST OFFICE BOX 400, KENNER, LOUISIANA 70063-0400, U.S.A.

Please Read

About the Manual Identifying Information on the Cover

The front cover displays pertinent identifying information for this manual. Most important, are the published manual number (part number) /ECN (date code). Generally, when a replacement manual is furnished, it will have the same published manual number, but the latest available ECN. This provides the user with the latest information applicable to his machine. Similarly all documents comprising the manual will be the latest available as of the date the manual was printed, **even though older ECN dates for those documents may be listed in the table of contents**.

When communicating with the Milnor factory regarding this manual, please also provide the other identifying information shown on the cover, including the publishing system, access date, and whether the document ECN's are the latest available or exact.

References to Yellow Troubleshooting Pages

This manual may contain references to "yellow pages." Although the pages containing troubleshooting procedures are no longer printed on yellow paper, troubleshooting instructions, if any, will be contained in the easily located "Troubleshooting" chapter or section. See the table of contents.

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Attn: Technical Publications
P. O. Box 400
Kenner, LA 70063-0400

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for M0020001AE/74467
Airbl Chuteloader

PELLERIN MILNOR CORPORATION

LIMITED STANDARD WARRANTY

We warrant to the original purchaser that MILNOR machines including electronic hardware/software (hereafter referred to as “equipment”), will be free from defects in material and workmanship for a period of one year from the date of shipment from our factory with no operating hour limitation. This warranty is contingent upon the equipment being installed, operated and serviced as specified in the operating manual supplied with the equipment, and operated under normal conditions by competent operators.

Providing we receive written notification of a warranted defect within 30 days of its discovery, we will – at our option – repair or replace the defective part or parts, FOB our factory. We retain the right to require inspection of the parts claimed defective in our factory prior to repairing or replacing same. We will not be responsible, or in any way liable, for unauthorized repairs or service to our equipment, and this warranty shall be void if the equipment is repaired or altered in any way without MILNOR’s written consent.

Parts which require routine replacement due to normal wear – such as gaskets, contact points, brake and clutch linings and similar parts – are not covered by this warranty, nor are parts damaged by exposure to weather or to chemicals.

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WE NEITHER ASSUME, NOR AUTHORIZE ANY EMPLOYEE OR OTHER PERSON TO ASSUME FOR US, ANY OTHER RESPONSIBILITY AND/OR LIABILITY IN CONNECTION WITH THE SALE OR FURNISHING OF OUR EQUIPMENT TO ANY BUYER.

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How to order repair parts

Repair parts may be ordered either from the authorized dealer who sold you this machine, or directly from the MILNOR factory. In most cases, your dealer will have these parts in stock.

When ordering parts, please be sure to give us the following information:

1. Model and serial number of the machine for which the parts are required
2. Part number
3. Name of the part
4. Quantity needed
5. Method of shipment desired
6. In correspondence regarding motors or electrical controls, please include all nameplate data, including wiring diagram number and the make or manufacturer of the motor or controls.

All parts will be shipped C.O.D. transportation charges collect only.

Please read this manual

It is strongly recommended that you read the installation and operating manual before attempting to install or operate your machine. We suggest that this manual be kept in your business office so that it will not become lost.

PELLERIN MILNOR CORPORATION
P.O. BOX 400, KENNER, LA., 70063-0400, U.S.A.
FAX: Administration 504/468-9307, Engineering 504/469-1849, Service 504/469-9777

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SECTION 1

GENERAL INFORMATION

1.1. SCOPE. The purpose of this book is to furnish the necessary information for the proper installation, operation and maintenance of the MILNOR chute load system, and to assist in ordering any repair parts required. Carefully read and follow the step by step instructions given in this manual.

1.2. UNPACKING. As each crate or box is unloaded from the truck, examine carefully for any shipping damage. Check the total number of crates, bundles, boxes, etc. with the bill of lading and note any shortages or damage on the bill of lading before signing the receipt.

If there is any damage or shortage, NOTIFY THE TRANSPORTATION COMPANY AT ONCE. Once a shipment has been delivered to a carrier by the manufacturer, it is the sole responsibility of the carrier to make sure no damage occurs in transit. Carriers are liable for concealed damage as well as readily apparent damage.... and you should not hesitate to file claim with the carrier if any damage or shortage is evident. MILNOR will be glad to assist you in filing your claim, but can not be responsible for shipping damage to the machine once it has been delivered to the carrier in good condition at the factory.

SECTION 2

ERECTION & INSTALLATION

2.1. LOCATION.

a. Set the washer-extractors over the gutter in their approximate position according to the architect's laundry layout drawing.

b. Starting at one end of the mezzanine floor chute openings, drop a plumb line down from the center of the 36" side of the opening and mark the floor at this point. Drop a plumb line from the same location on the last chute opening on the other end and mark the floor at this point. Snap a chalk line on the floor in front of the machines using the above floor marks.

c. Drop a plumb line down the center of the 48" side of each chute opening.

d. Locate the center of each washer-extractor in line with each floor mark made in c. above, with the frame front 21-13/16" from the chalk line made in b. above.

e. Using shims or large flat washers, raise the machines 1" off the floor to provide space for grout. Using a level on the frame fronts and sides, add or remove shims to square the machines and make all machines level and in line with each other.

2.2. REAR TRACK ASSEMBLY.

a. The rear track is attached to brackets located on the top cross braces of the washer-extractors. The track sections are staggered to provide support at the joints. Lay the sections of track on the floor in front of the machines and extend at least 5 feet of track beyond either the right or left of the last machine to provide space to park the loading transition when it is not being used.

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b. When the track layout has been determined, start by bolting one long inner track and one short outer track together. Use a 4-1/8" spacer block to gauge the space necessary for the carrier wheels.

c. Bolt the first track sections to the machines and continue assembling the sections until the full length of track desired has been completed. Level the track the full length and tighten all bolts.

2.3. CHUTE ASSEMBLY.

a. Before attempting to set the chute assembly on the machine it will usually be easier to first take one of the fan assemblies and hang it over the washer-extractor from a ceiling joist using a short piece of chain or small hoist.

WARNING: Make certain the joist and chain are sufficient to hold the weight of the fan.

b. Remove the skid from the chute assembly, and using 6" blocks under the chute base; stand the chute assembly up vertically. With a fork lift of $1\frac{1}{2}$ ton capacity (minimum), pick up the chute and move in place square with, and centered in front of the washer-extractor.

WARNING: Use safety chains to tie the chute to the lift mast and use all rigging safety precautions when moving heavy equipment.

c. Slowly raise the chute assembly through the hole in the mezzanine floor and place in position on the frame of the washer-extractor. Use a 5/16" shim between the top of the washer-extractor frame and the bottom of the chute base before setting all the weight on the frame. Assemble the 1/2" bolts securing the chute to the washer-extractor frame. Level the chute base side to side parallel to the track and reshim the 5/16" space where necessary before tightening the 1/2" bolts.

d. Assemble the large 12" channel to the chute as close as possible to the mezzanine floor using the nearest set of matching holes. The channel should be assembled to the chute on the side away from the washer-extractor. Using a level again on the chute base fore and aft of the washer-extractor, shim between the 12" channel and the mezzanine floor until the chute base is level when the load is released by the fork lift. Tighten all bolts securely before releasing the weight. Recheck the chute base level in both directions.

2.4. HOPPER ASSEMBLY.

a. Remove the shipping plates assembled to the chute top and set the hopper assembly in place on top of the chute. The elbow connections for the 6" back pressure lines should go on the side toward the washer-extractor. Retain the shipping plates for use later.

b. Assemble all bolts to secure the hopper to the chute flange.

c. Adjust the counterweight arms so the weights will just hold the doors closed and will allow full 90° opening.

d. Connect the 6" flexible tubing to the hopper elbows and on the rear fan transition with hose clamps.

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2.5. FAN ASSEMBLY.

a. Assemble the inside fans to the chute frame and connect the outlet flange to the air transition piece. Assembly is usually easier if the fan to frame bolts are not tightened until the flange connection is made and all the bolts secured.

b. Assemble the outside fans to the chute frame as above.

2.6. SUCTION BOX ASSEMBLY.

a. Use one 2 oz. tube of RTV732 per box and extrude a bead of sealant around the top of one crossbrace inside the 3/8" mounting holes.

b. Assemble one suction box to the crossbrace using the 3/8" self tapping screws provided.

c. Repeat the above procedure for the other suction box.

2.7. FRONT TRACK ASSEMBLY.

a. The front track is attached to an angle along the front of the chute base and the track section joints are staggered the same as the rear track.

b. Assemble the front track following the procedure outlined in 2.2. above.

c. Provide support for the ends of the track where extended beyond the machines. These ends should be tied to the ceiling joists and braced as necessary for rigidity.

d. Bolt on the track stops under the track at all 4 open ends of the track. The track will have to be drilled for 3/8" bolts to hold the track stops.

2.8. CARRIER ASSEMBLY.

a. Slide the carrier assembly wheels into the track at one end of the unit.

b. Roll the carrier the full length of the track several times to be certain it rolls freely. Readjust the 4-1/8" track spacing, where necessary, if the wheels bind at any spots. Using heavy grease, lightly coat the inside edge of the track the full length. Coat only the edge contacting the sides of the wheels not the bottom of the track.

c. Remove the track stops from the back of the carrier track so the loading transition can be slid into place.

d. Move the carrier in front of each machine so that the carrier assembly is exactly centered over the machine. Locate the carrier latch striker in line with the carrier latch plunger and bolt the striker to the track using spacers or washers as necessary to insure a positive latch.

2.9. LOADING TRANSITION.

a. With the track stops removed as in 2.8.c. above, slide the loading transition wheels into the carrier track. Replace the track stops.

b. Roll the transition in and out on the carrier track and roll the carrier down along the track to check clearances along the track.

c. Open the shell and cylinder doors on each machine and roll the transition into loading position to be certain carrier and transition is centered in machine.

NOTE: Washer-extractor must be hooked up to electrical power and compressed air supply before the doors can be opened or the "push down" operated.

2.10. FINAL HOOKUP.

a. Connect the air lines according to the pneumatic diagram shown on Drawing BMP710055C.

b. Install the mezzanine electrical control station either on the chute or on the wall convenient to the operator. The shipping plates may be used across the center of the chutes to mount the station if desired.

c. Make all electrical connections in accordance with the wiring diagram enclosed.

d. Roughen the concrete surface under the base pads of the washer-extractor and complete grouting the machine.

e. Remove the red shipping bolts on the machine base pads after the grout has set.

SECTION 3

OPERATING PROCEDURE=CHUTELOADER

3.1. After the chute has been loaded with soiled work, the operator pushes the "RELEASE" button, turning off the "OK TO LOAD" lamp on the sorting room push button station and transferring control to the washroom floor. The contents of the chute may not be blown into the Washer Extractor until the "OK TO LOAD" lamp is off.

3.2. POSITIONING TRANSITION.

a. Move the transition piece plus the carrier down the track until it locks into place in front of the machine to be loaded.

b. Make sure washer-extractor cylinder doors are spotted in the proper loading position and opened fully.

c. Push transition assembly toward the washer-extractor until it locks into position.

3.3. AUTOMATIC OPERATION.

3.3.1. Automatic loading sequence may be started as soon as control of the system has been released at the sorting room pushbutton station. This will be indicated by the amber "CHUTE LOADED" light on the control box. To begin automatic sequence push "START" button on the control box.

3.3.2. The blower motors start up and "wind up" for 7.5 seconds, whereupon the chute doors open for 22.5 seconds (total elapsed time 30 seconds). The doors close automatically and the blowers are shut off and permitted to "wind down" for 7.5 seconds after which control is restored to the soiled loading area and the transition piece may then be unlatched and moved to another location.

3.3.3. If, for some reason, it is necessary to stop the automatic sequence before it is completed, push the "EMERGENCY BLOWER STOP" button. This will shut off the blower motors, but will not allow the transition assembly to be retracted. To retract the transition after it has been placed in the loading position you must shut off both disconnects feeding power to the system. (This is necessary to prevent the transition from being unlatched at a time when the blowers would be generating sufficient pressure to cause the transition to "fly back" on its rails -- an obviously hazardous occurrence.)

3.3.4. To restart automatic sequence push the "START" button again (control is not transferred to the sorting room pushbutton station when the "EMERGENCY BLOWER STOP" button is pushed).

3.3.5. When the automatic sequence is finished, control of the system is automatically transferred to the sorting room pushbutton station and the transition assembly may be retracted. Transfer of control will be indicated by the amber light on the sorting room pushbutton station.

3.4. MANUAL OPERATION.

3.4.1. If for some reason a load of laundry fails to be completely loaded into the machine, the blower motors and lower chute doors may be manually operated.

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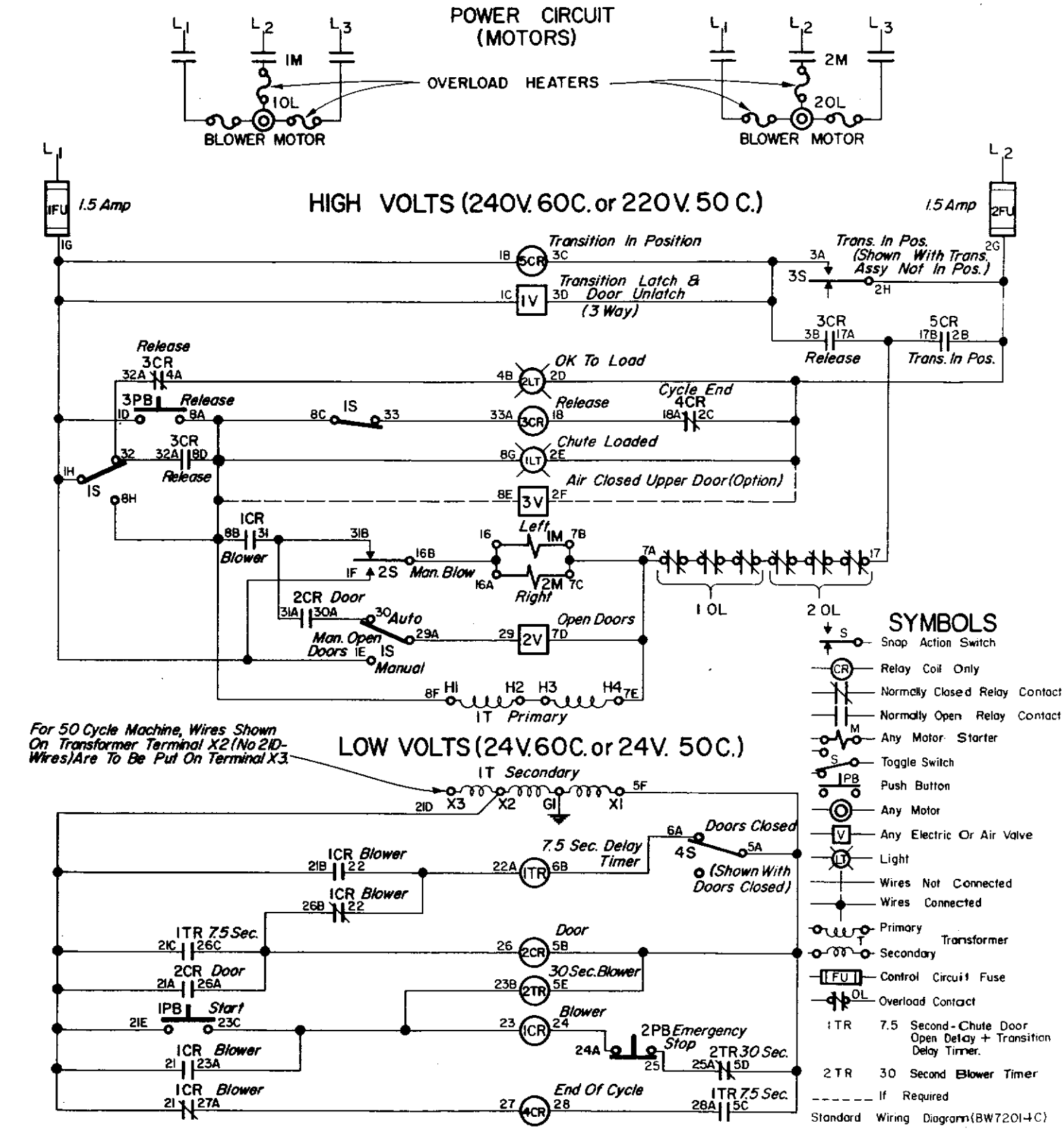
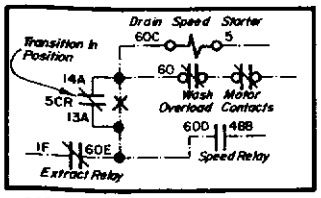
MANUAL OPERATION - continued

3.4.2. The blower motors are controlled by the manual push button. The motors run as long as the button is held in and shut down when the button is released.

3.4.3. Open the doors with the toggle switch. The doors will remain open until the toggle switch is placed in the closed position.

WARNING: If the system is equipped with optional automatic upper door opening system be sure all personnel are away from the upper doors; when the lower doors open the upper doors are held closed.





DOTTED EXISTING CONTROL CIRCUIT
Reference:
BW71032 = N17 Control Schematic.
BW71032C = N17 Control Box.

BW72014

SCHEMATIC WIRING DIAGRAM
CHUTELOAD CONTROL = 60" & 72" WED
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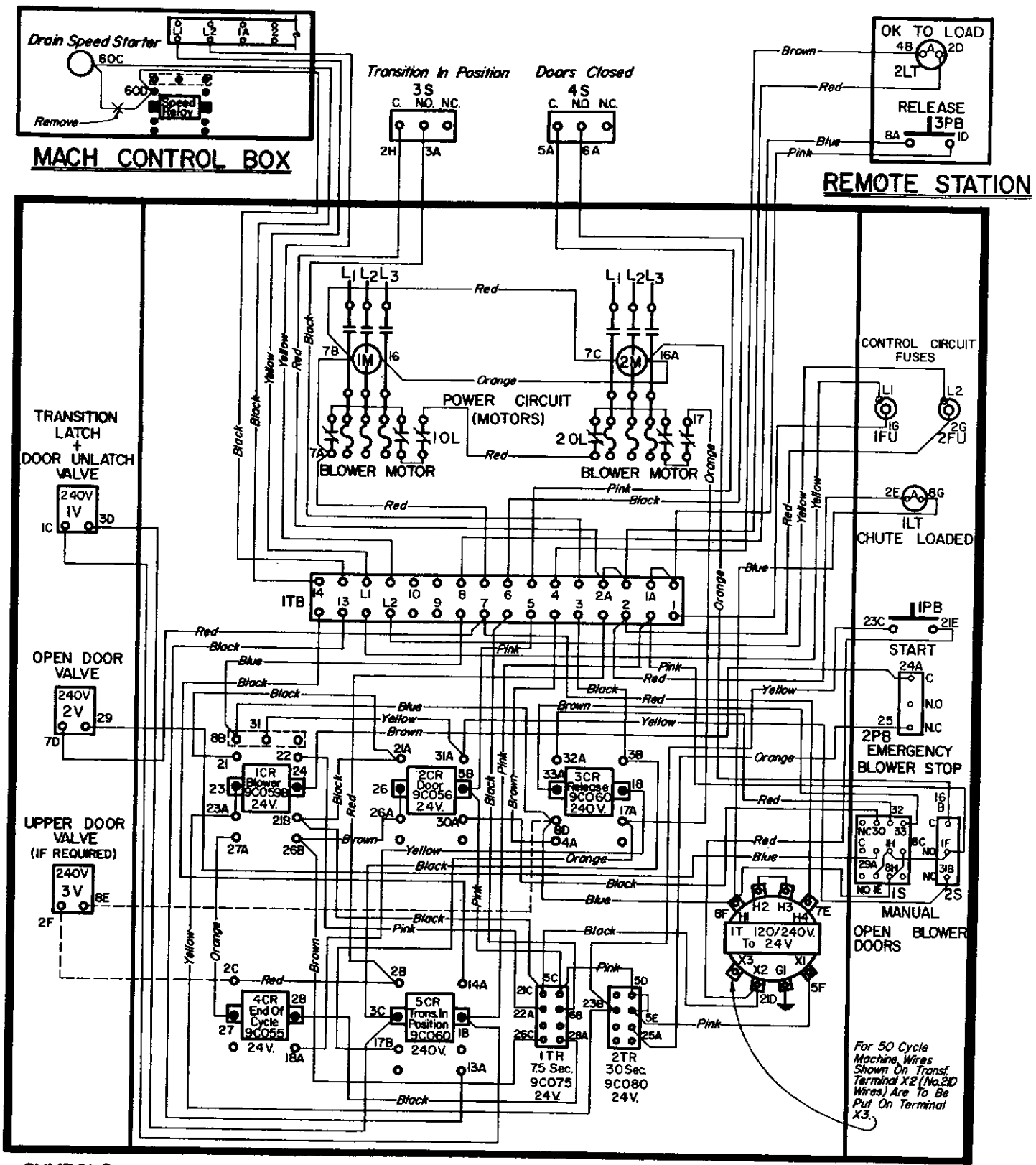

SYMBOLS

1TR	7.5	Second - Chute Door Open Delay + Transition Delay Timer.
2TR	30	Second Blower Timer.
● Dot		Coil Relay Connection
------		If Required

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WIRING DIAGRAM

CHUTELOAD CONTROL BOX = 60" & 72" WED

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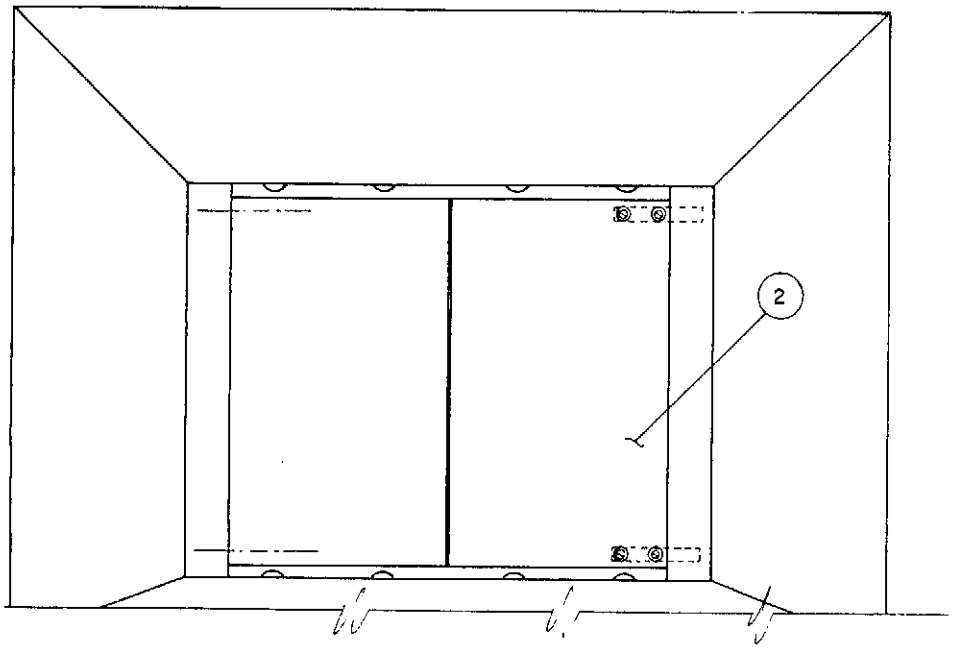

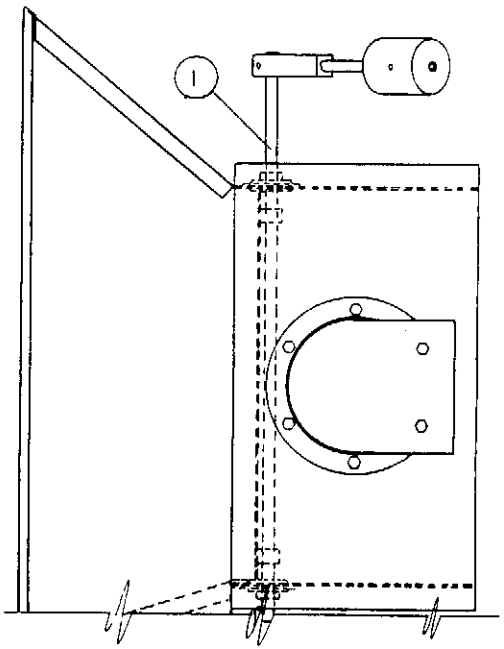

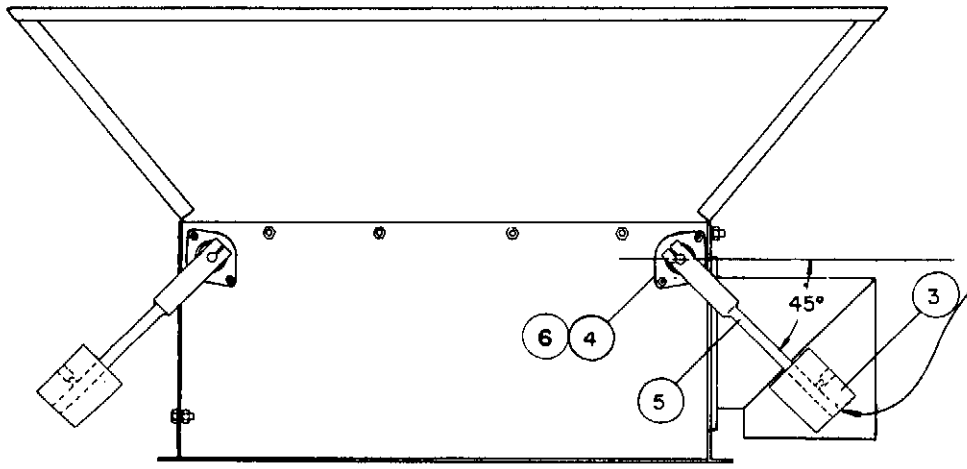

NOTE: Adjust counterweight even with the end of the rod.

HOPPER ASSEMBLY = RAPID LOAD

PELLERIN MILNOR CORPORATION

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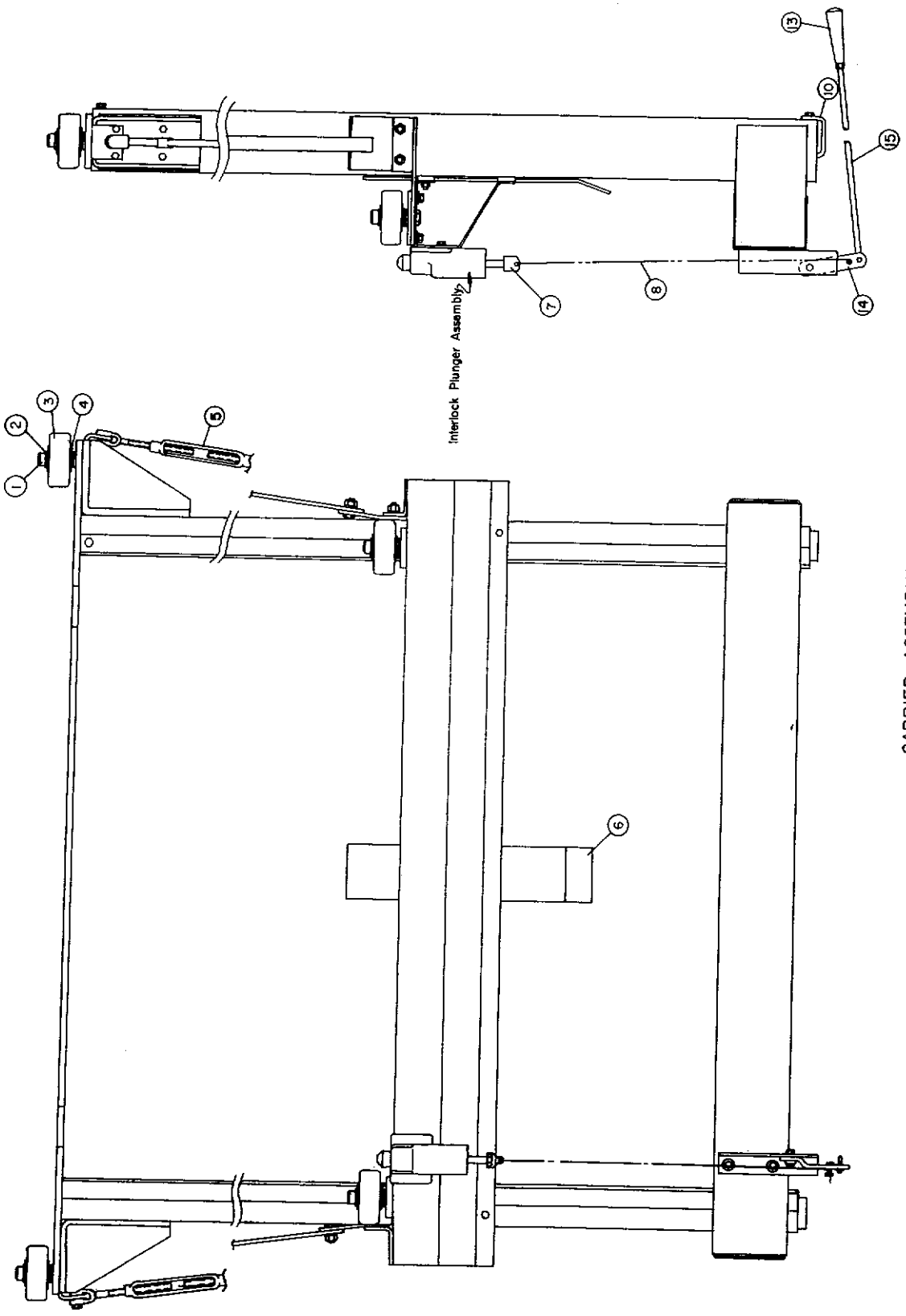
71412C

PARTSLIST=RAPID LOAD HOPPER

ITEM NO.	PART NO.	DESCRIPTION
001	04-00072	71260B SHAFT=TOP DOOR
002	04-00071	71260B DOOR=CHLITE TOP
003	04-00073	71260B COUNTERWEIGHT=CHUTE DOOR
004	54A150	BRG FLANGET FAF#RA008NPPB(.5"BORE)
005	W4-00076	71260B DOOR ARM ASSEMBLY
006	54A150A	BRG FLANGET STAMPING FAF#40MSTC2ZP

TO ORDER ENTIRE ASSEMBLY SPECIFY: ASSEMBLY NO. A40A00500



CARRIER ASSEMBLY

PELLERIN MILNOR CORPORATION

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BMP710057
72247D

PARTSLIST=CARRIER ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION
001	15C100	HXSOKSTRIPBOL 3/4X2+1/4 W/5/8-11TRD
002	15U351	MACBUSHNARIMWAS 10GAX1+1/4X49/64CAD
003	27A600	WHEEL 4X1.5+3/4BNG TM-04101-SW-ZF
004	15U355C	64184Z 16GA ADJWASHER=BRGHOUS CADPL
005	17A080	TURNBUCKLE 1/2X6 JAW+JAW
006	04-00047	71260 SLIDE=TRANSITION LATCH
007	04-00106	71260A SWIVEL=CHAIN PULL
008	27A610	CHAIN=#35 SASH ZINC PLATED
010	04-00091	71260B BRACKET=WHEEL STOP
013	27A550	HANDLE CARRLANE CL-2-PH 3/8-16BLK
014	04-00184	72170A LEVER=CARRIER LATCH
015	04-00185	72170A ROD=CARRIER LATCH

TO ORDER ENTIRE ASSEMBLY SPECIFY: ASSEMBLY NO. A40A00400

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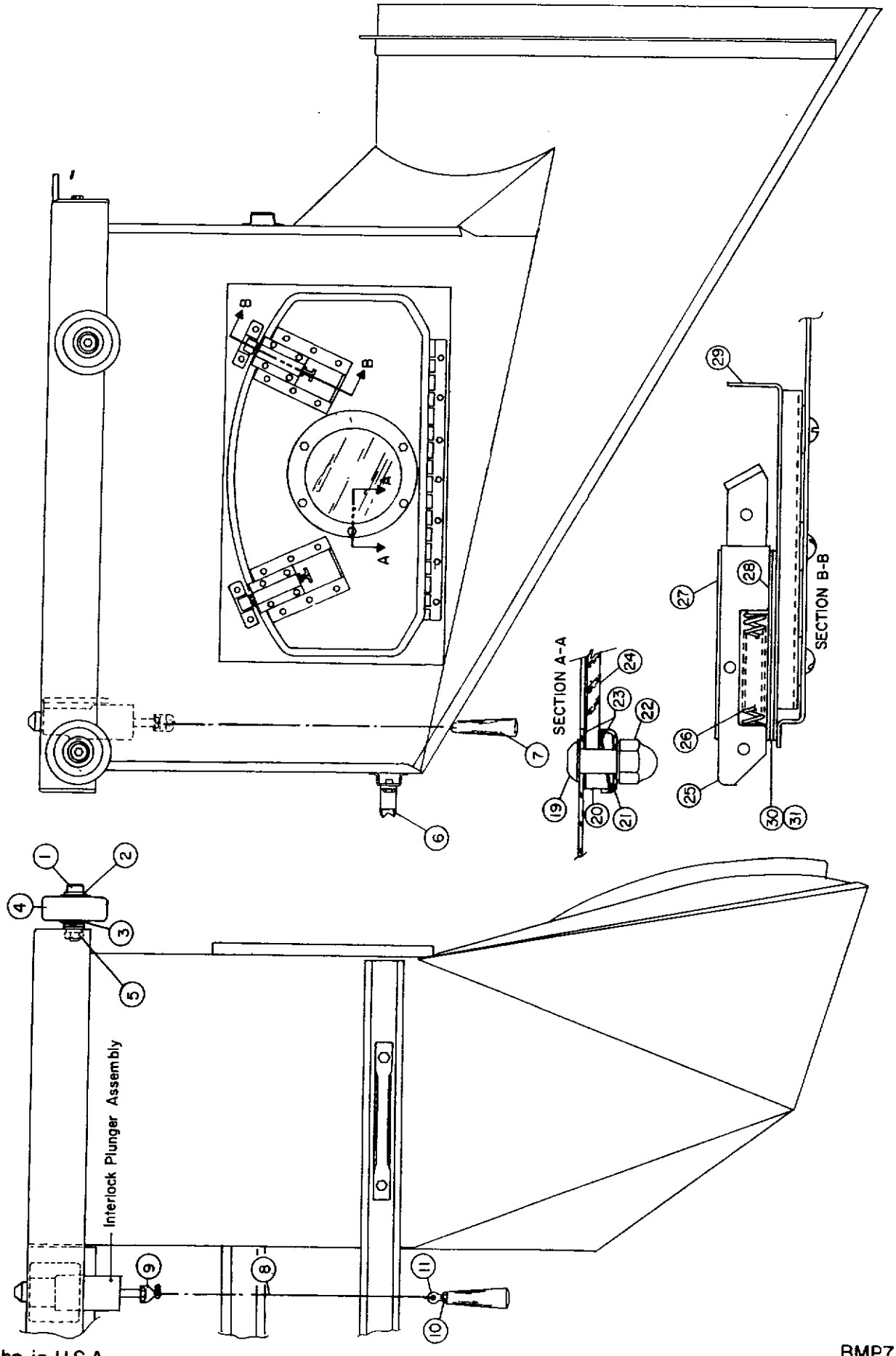

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PARTSLIST=WED TRANSITION

ITEM NO.	PART NO.	DESCRIPTION
001	15C100	HXSOKSTRIPBOL 3/4X2+1/4 W/5/8-11TRD
002	15U351	MACBUSHNARIMWAS 10GAX1+1/4X49/64CAD
003	15U355C	64184Z 16GA ADJWASHER=BRGHOUS CADPL
004	27A600	WHEEL 4X1.5+3/4BNG TM-04101-SW-ZF
005	15G236C	HEXFINJAMNUT 5/8-11UNC2 ZINC
006	02-175037	70148C HANDLE=SHELDOR=WED-SS
007	27A550	HANDLE CARRLANE CL-2-PH 3/8-16 BLK
008	27A610	CHAIN=#35 SASH ZINC PLATED
009	04-00106	71260A SWIVEL=CHAIN PULL
010	15G205	HEXNUT 3/8-16UNC2 ZINC
011	17A060	EYEEND 3/8-16(1"TRD)#2702-4AZINC
019	15K089	REVC RDSOKCAPSCR 3/8-16X7/8 SPECIAL
020	04-00163	72079B RING=CLAMPING WINDOW
021	02-03444	70093B RING=SHELL BACK CLAMP
022	15G200	HEXCAPNUT 3/8-16UNC2 #3282BR NICKPL
023	02-03446	16NOV61 GASKET=SHELBACK CLAMPRING
024	04-00160	72079B WINDOW=TRANSITION DOOR
025	02-15040	PLUNGER-CYLDOOR LATCH
026	02-15093	REV-B CYL DOOR LATCHSPRING HEAVY
027	02-15041	66517Z BODY=CYLDOOR LATCH
028	02-15077	PLATE=CYLDOOR LATCH
029	02-15825	70199B ADAPTER PLATE=DOOR LATCH
030	03-06173	71032A SHIM=DOOR LATCH 24GA
031	02-15832	71036A SHIM=CYL DOOR LATCH

(TO ORDER ENTIRE ASSEMBLY SPECIFY: ASSEMBLY NO. A40C01300)

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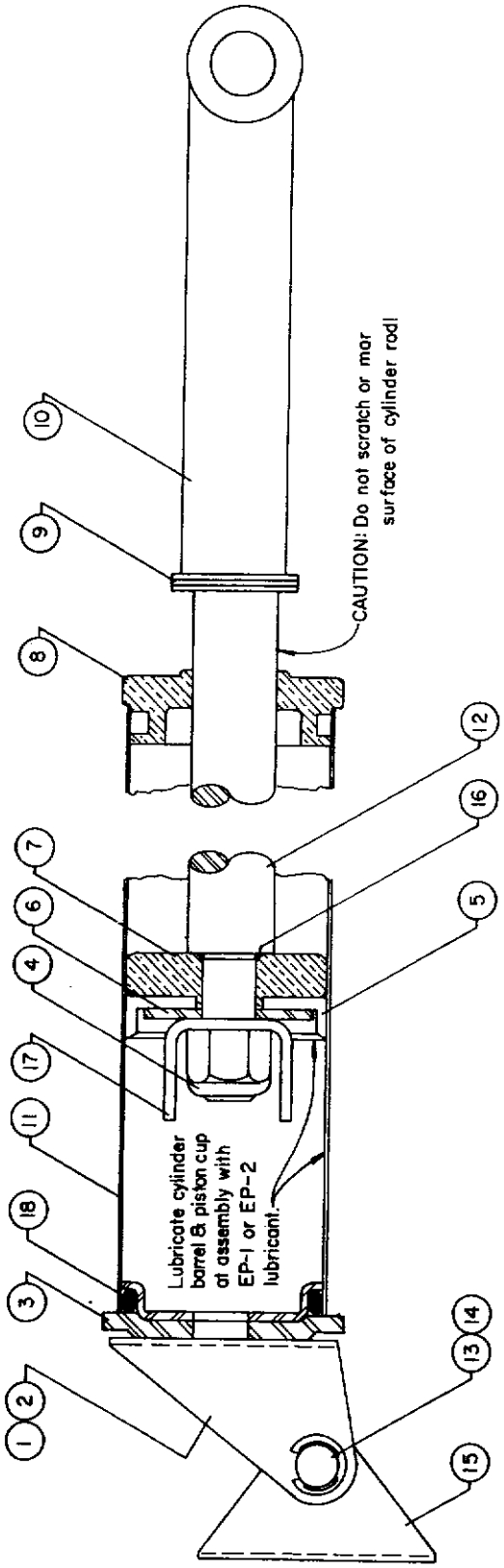

ACTUATOR ASSY-CHUTE DOORS

PELLERIN MILNOR CORPORATION

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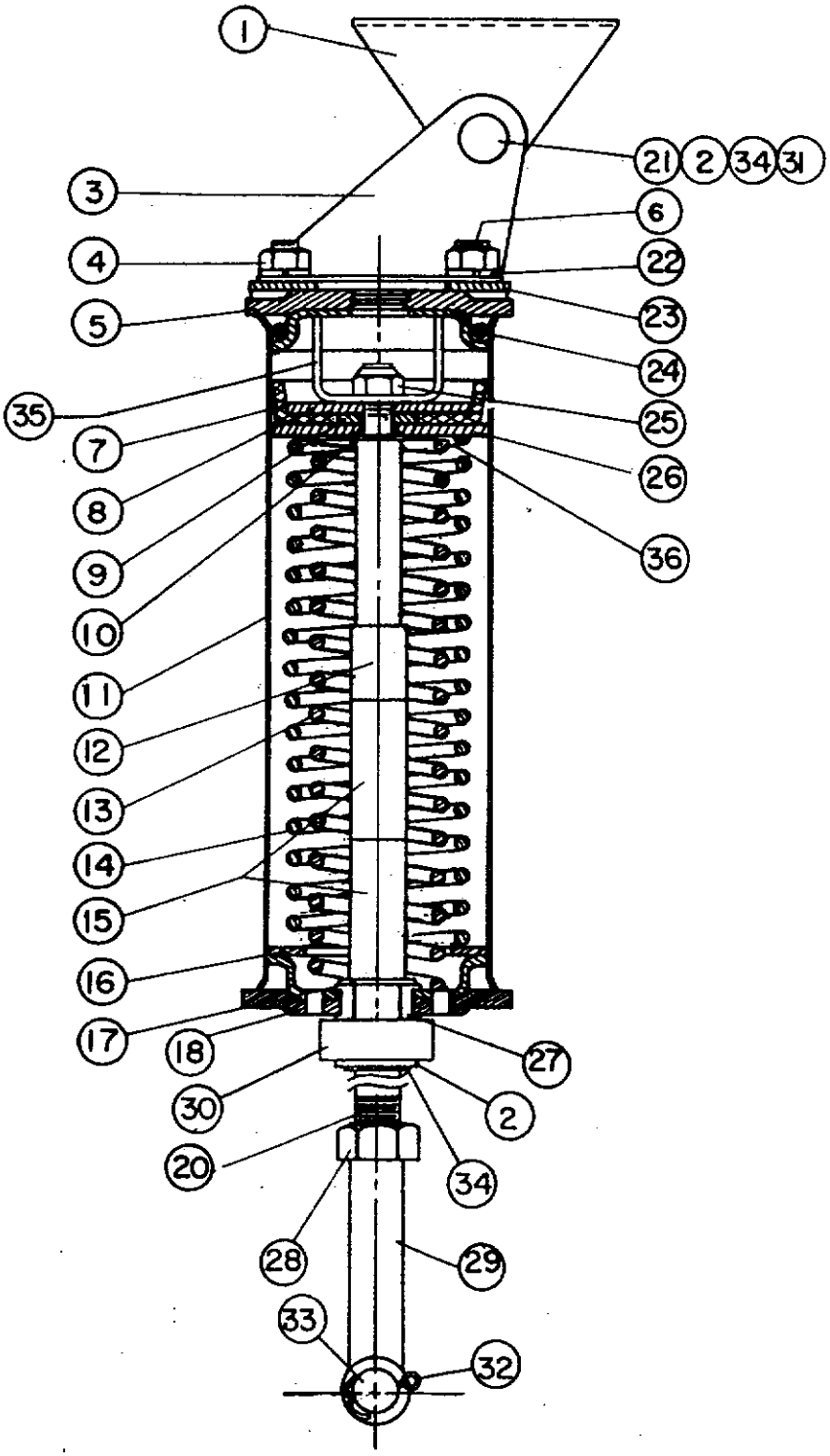
71427C

PARTSLIST=DOOR ACTUATOR ASSY

ITEM NO.	PART NO.	DESCRIPTION
001	02-02550	18DEC53 RT BRACKET=AIRCYL CAD
002	02-02547	LT BRACKET=AIRCYL CAD
003	02-02101	CYLHEAD=2+3/8"AIRCYL(W/TAPPED HOLE)
004	15G236E	HEXLOKNUT 5/8-11NC ESNA #21NE-101
005	02-02194	70217A PISTONCUP=DUMPVALVE 2+3/8"
006	X4-00030	71260A WASHER=PISTON-2"ODX.625ID
007	04-00029	71260A WASHER=PISTON CUP
008	X4-00026	71260A HEAD=AIR CYLINDER
009	15U355C	64184Z 16GA ADJWASHER=BRGHOUS CADPL
010	17A047	ADJ YOKE END 3/4-10NC-CAD #2708-8A
011	04-00027	71260A CYLINDER=AIR CHUTE DOOR
012	04-00033	71260B STEM=AIR CYLINDER
013	02-02557	19AP54 SHAFT=AIRCYL MOUNT 1/2X1+5/8
014	17B012	EXTRETRING IND#1000-50-ST-ZD ZINC
015	02-02556	SUPPORT=AIRCYL CADSTL
016	60C112	ORING 5/8"IDX3/32CS BUNA-N 70 DURO
017	04-00050	71260A STOP=CYLINDER DOOR OPENING
018	60C132	ORING 2"IDX3/16CS BUNA-N 70 DURO
019	04-00028	71260A TIE ROD=AIR CYLINDER 18"

TO ORDER ENTIRE ASSEMBLY SPECIFY: ASSEMBLY NO. A40A00200



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AIR CYLINDER ASSEMBLY

PELLERIN MILNOR CORPORATION

BMP701303
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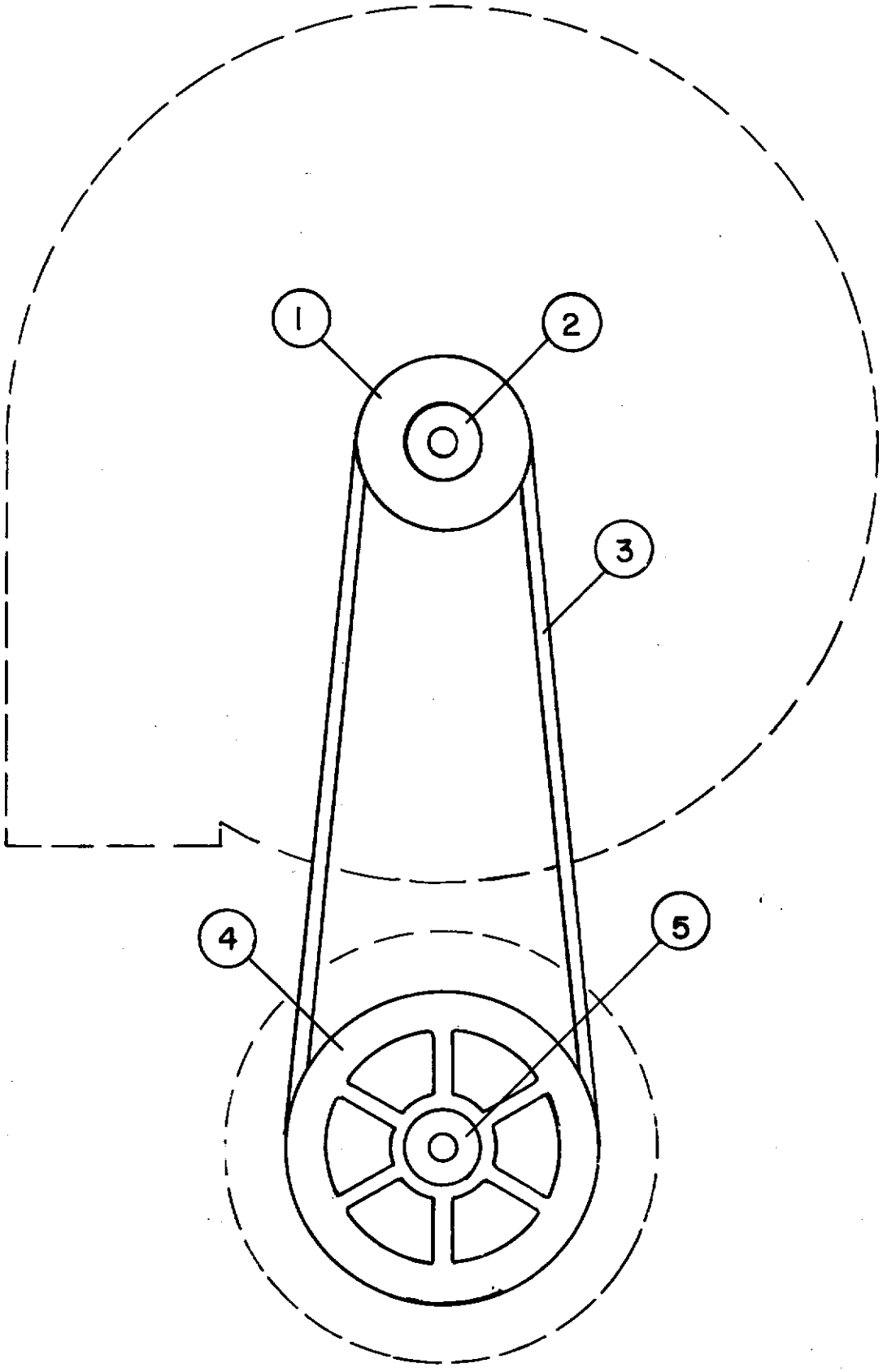
ITEM NO.	SA-02-027 (Console)	SA-02-028 (Console + 20" & 30" Extractors)	SA-10-019 (Brake Cyl.) 3016,3621, 3626 QWE & Chute	SA-15-012 (Brake Cyl.) 4231 + 4244 Washer-Extractor	DESCRIPTION
	PART NO.				
001	--------	02-02556	02-02556	02-02556	71305A SUPPORT=AIRCYL CAD STEEL
002	15U280	15U280	15U280	15U280	FLAWASH (US STD) 1/2 ZINCPL
003	02-02550	02-02550	02-02550	02-02550	71305A BRACKET=AIRCYL RIGHT-CAD
003	02-02547	02-02547	02-02547	02-02547	71305A BRACKET=AIRCYL-LEFT-CAD
004	15G185	15G185	15G185	15G185	HEXNUT 5/16-18UNC2 ZINC
005	02-02101	02-02101	02-02101	02-02101	CYLHEAD=2+3/8"AIRCYL(W/TAPPED HOLE)
006	02-02272	02-02272	02-02272	02-02272	66431Z TIEROD 5/16X8+9/16"LONG ZINC
007	02-02194	02-02194	02-02194	02-02194	70217A PISTONCUP=CUMPVALVE 2+3/8"
008	02-02085	02-02085	02-02085	02-02085	67418Z UP WASHER-2"OD=PISTONCUP
009	02-02185	02-02185	02-02185	02-02185	22JAN52 WASHER=PISTON CUP BRASS
010	60C106	60C106	60C106	60C106	ORING 5/16"IDX1/16CS BUNA-N 70 DURO
011	02-02068	02-02068	02-02068	02-02068	5FEB57 AIRCYL-STAINLESS=DUMPVALVE
012	--------	--------	27B240	27B240	SPACER.5091DX.813X.048T ROLLSTL CAD
013	--------	--------	--------	02-15880	70337B SPRING=BRAKE1.50D10.3FL17#/"
014	02-02110	02-02110	--------	--------	9FEB56 8"SPRING=DUMPVALVE 18-8SS
014	--------	--------	02-15881	02-15881	70337B SPRING=BRAKE2.10D11FL 15.5#/"
015	27B250	--------	27B250	27B250	SPACER .5091DX1.5X.048T ROLLSTL CAD
016	15U520	15U520	--------	15U520	FLAT WASHER 2+3/8X1+41/64X12GA ZINC
017	15U243	15U243	15U243	15U243	FLAWASHER 7/80DX33/641DX16GA ZINCPL
018	02-02546	02-02546	02-02546	02-02546	65768Z CYLHEAD=SLIDESTEM
020	02-02543	02-02543	--------	--------	17DEC53 PISTONSTEM=AIRCYL 10+5/8"L
020	--------	--------	02-18650	02-18650	70328B STEM=2 WAY AIRCYLINDER BRAKE
021	--------	17A036	17A036	17A036	CLEVISPIN 1/2X1+3/4 DRILLED+ZINC
022	15U210	15U210	15U210	15U210	LOKWASHER MEDIUM 5/16 ZINCPL
023	15U200	15U200	15U200	15U200	FLAWASH (US STD) 5/16 ZINCPL
024	60C132	60C132	60C132	60C132	ORING 2"IDX3/16CS BUNA-N 70 DURO
025	15G220	15G220	15G220	15G220	HXLTTHINLOKNUT3/8-24SS ESNA79NTE064
026	02-02105	02-02105	02-02105	02-02105	71203A PISTON CUP WASHER STNLS STL
027	54E220	54E220	54E220	54E220	NYLINER 8L2FF BUSHING 1/2X9/16X.140
028	15G230	15G230	--------	15G230	HEXNUT 1/2-13UNC2 ZINC
029	17A020	17A020	--------	--------	ADJ CLEVIS MACHINED 1/2-13 CAD PLTD
030	02-02545	02-02545	--------	--------	17DEC53 BUMPER=AIRCYL PISTONSTEM
031	15H040	15H040	15H040	15H040	STDCOTTERPIN 1/8X3/4 ZINCPL
032	15H030	15H030	--------	--------	STDCOTTERPIN 3/32X3/4 ZINCPL
033	17A040	17A040	--------	--------	CLEVISPIN 1/2"X1+3/8" DRILLED+ZINC
034	54E221	54E221	54E221	54E221	NYLINER 8L5+1/2-F BUSH.5X9/16X.406
035	--------	--------	03-01313	03-01313	70219A STOP=AIR CYL W/2+11/16STROKE
036	--------	--------	--------	02-18651	66167Z WASHER=2WAY BRAKECYL



BLOWER DRIVE CHART

PELLERIN MILNOR CORPORATION

Litho. in U.S.A.

BMP710061
71423A

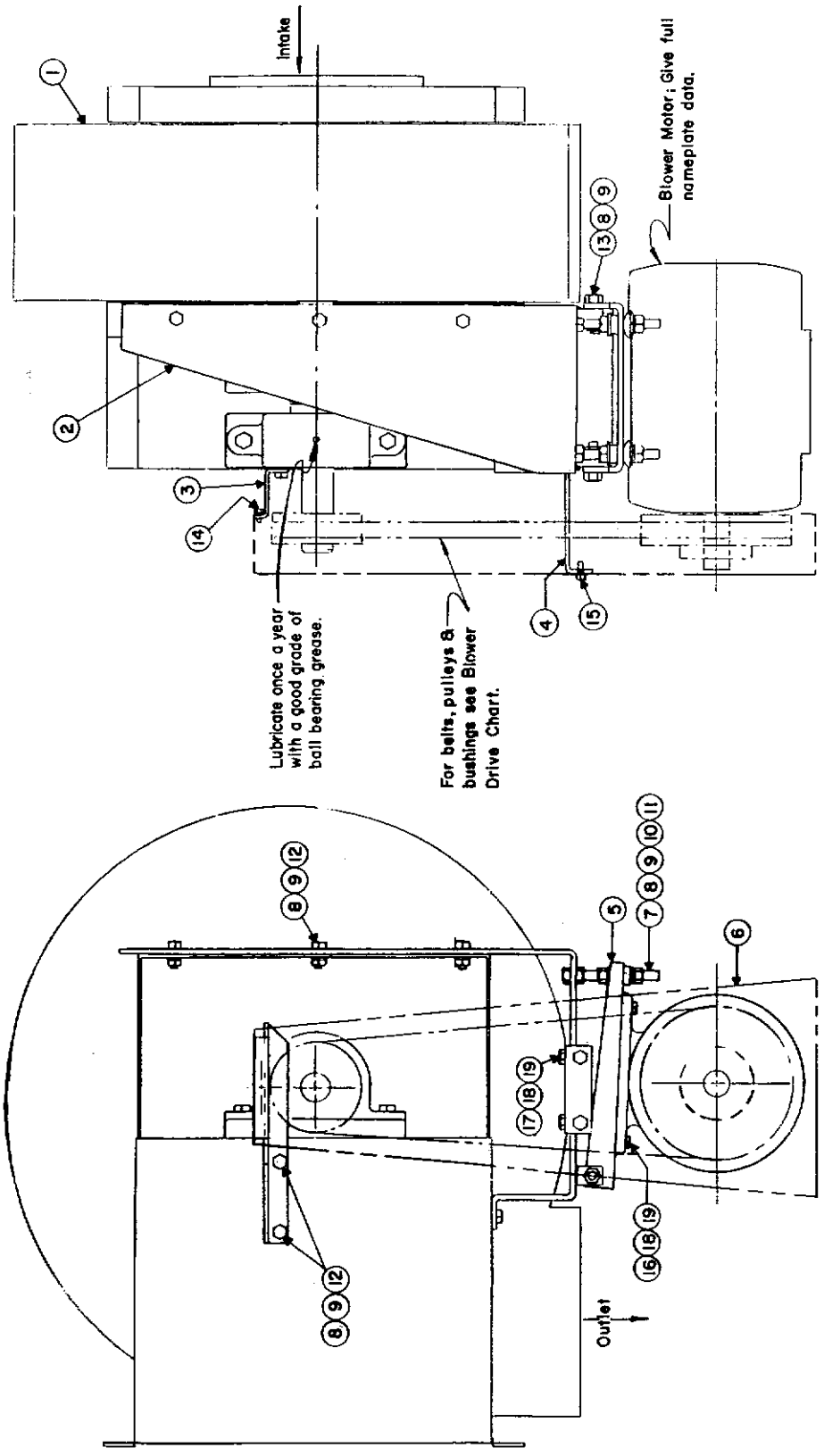
PARTSLIST=BLOWER DRIVE CHART

60 CYCLE

ITEM NO.	PART NO.	DESCRIPTION
001	54X794	VPUL 2B4.6 (SDS) DAYCO #2BQ46
002	54V251	BUSHING VPUL 1+15/16" DAYCO#SDS
003	54T081	VBELT-INT DAYCO#B62 REQ MATCHSET-2
004	54X762	VPUL 2B8.0 (P1) BROWN#2B80P
005	54V235	BUSHING VPUL 1+3/8" BROWN#P1

50 CYCLE

ITEM NO.	PART NO.	DESCRIPTION
001	54X794	VPUL 2B4.6 (SDS) DAYCO #2BQ46
002	54V251	BUSHING VPUL 1+15/16" DAYCO#SDS
003	54T083	VBELT DAYCO B64 MATCHSET-2
004	54X764	VPUL 2B9.4 (P1) BROWN 2B94P
005	54V235	BUSHING VPUL 1+3/8" BROWN#P1



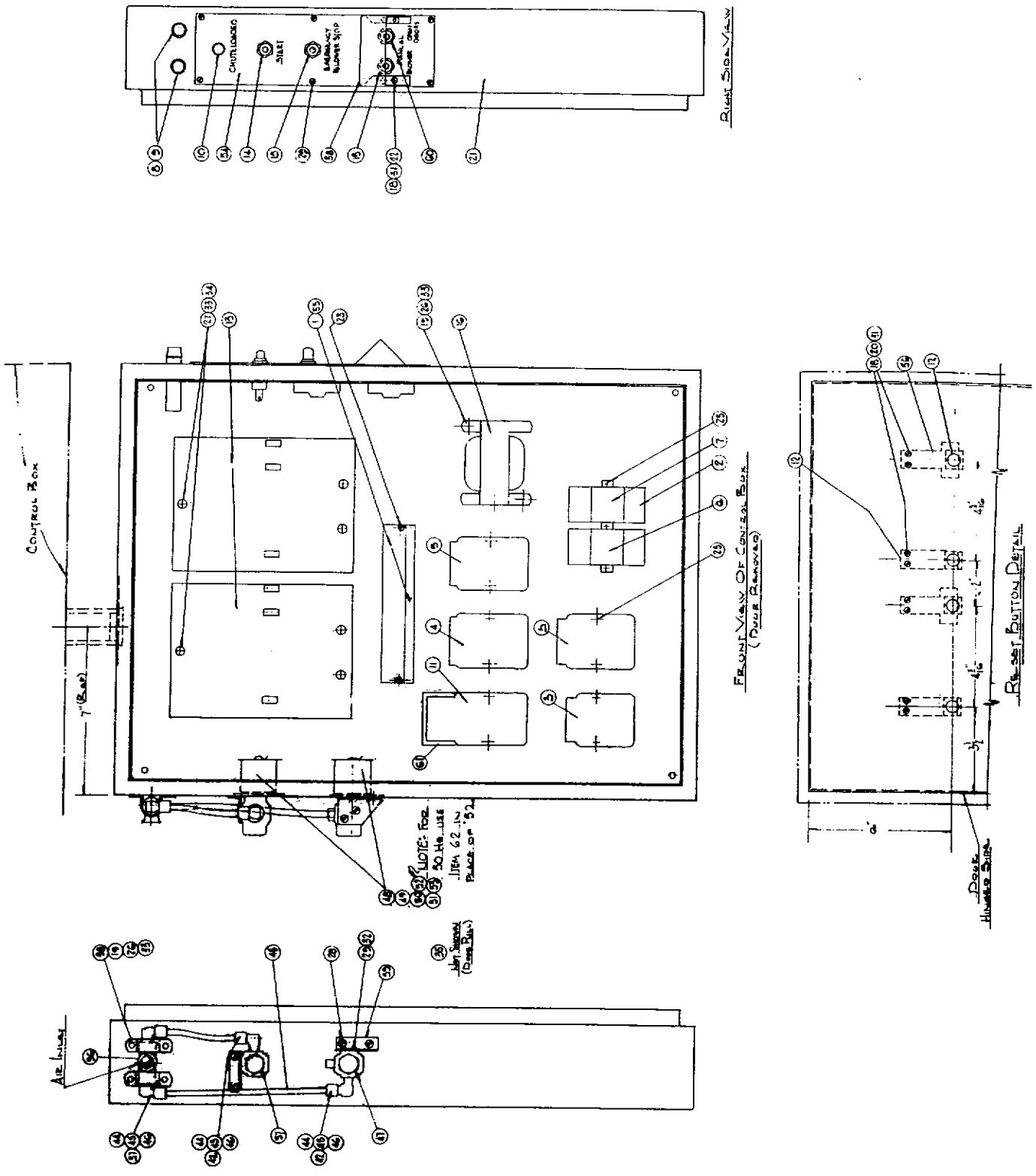
BLOWER MOTOR MOUNT
PELLERIN MILNOR CORPORATION

Litho. in U.S.A.

BMP710063
71446C

PARTSLI[illegible]=BLOWER MOTOR MOUNT

ITEM NO	PART NO.	DESCRIPTION
001	13C30001	01Z BLOWER ILG#12AH-1-CCW-BHD
002	W4-00064	71260B BRACKET=FAN MOTOR MTG WELD
003	04-00129	71260C BRACKET-BELT GUARD TOP MOUNT
004	04-00130	71260C BRACKET-BELT GUARD BOTTOM MT
005	02-10494	65756C MOUNT-EXT MOTOR 3016WE
006	A40C00700	71267 BELT GUARD ASSY=CHUTELOADER
007	15K203	HEXTAPSCR 1/2-13UNC2X5 ZINC
008	15G230	HEXNUT 1/2-13UNC2 ZINC
009	15U300	LOCKWASHER MEDIUM 1/2 ZINCPL
010	15U280	FLAWASH (US STD) 1/2" ZINCPL
011	02-13155A	71197A WASHER=SELF ALIGNING
012	15K147	HEXCAPSCR 1/2-13UNC2X1 ZINC
013	15K170	HEXCAPSCR 1/2-13UNC2X1+1/2 ZINC
014	15P011	03Z TRDCUT-F PANHD 10-24X1/2 NIKSTL
015	15P200	01Z TRDCUT-F HXWASHD 3/8-16X3/4NIK
016	15K118	HEXCAPSCR 3/8-16X1+3/4 ZINC
017	15K105	HEXCAPSCR 3/8-16X1+1/4 ZINC
018	15G205	HEXNUT 3/8-16UNC2 ZINC
019	15U255	LOCKWASHER MEDIUM 3/8 ZINCPL



CONTROL BOX=60"+72" CHUTE LOADER

PELLERIN MILNOR CORPORATION

Litho. in U.S.A.

BMP720049
722570

PARTSLIST=60+72" CONTROL BOX

ITEM NO.	PART NO.	DESCRIPTION
001	09B126	TERMBLOCK KULKA #600-16 WITH SCREWS
002	09B321	01Z SOCKET-11 BLADE TIMER 27E121
003	09C055	04Z RELAY 24V PR1955-2 SPDT
004	09C056	09Z RELAY 24V PR1939-4 DPDT
005	09C060	08Z RELAY 240V PR2522-2 DPDT
006	09C075	02Z TMR 7.5S DPDT24V60C+CUA4131001
007	09C080	01Z TMR 30S DPDT24V60C+CUA4131004
008	09D022	FUSE AGC 1.5A GLASSTUBE EA=1 FUSE
009	09F004	67459Z FUSEHOLDER-YELLOW LD-BUSS#HKP
010	09J045	AMBER PILOTLITE 250V LEE#35R2113
011	09C059B	10Z RELAY 24V PR3915-3 3PDT 2XLOWVA
012	09M080	01Z RESET BUTTON AB#F11218 BLK
013	09M077K	03Z #2 OPENSTARTER LONGOL 240V
014	09R001	01Z PUSHBUT SP-NO(NOM) CH8900K197
015	09R019	01Z MICSW SPDT KEYED BZ-2RQ128T
016	09U026AAA	07Z XFMR 120-240/24V+75VA
018	15G070	HEXMACHSCRNUT 6-32UNC2 ZINC
019	15G125	HEXMACHSCRNUT 10-24UNC2 ZINC
020	15N035	RDMACHSCR 6-32UNC2X1/4 ZINC
021	12H072	TELENCLOSURE SQ-D#18244T LESS LOCK
022	15N051	RDMACHSCR 632UNC2X1/2 ZINC
023	15P004	TRDCUT-F RDHD 6-32UNC2X1/2 CADPL
025	15P105	03Z TRDCUT-F RDHD 8-32UNC2X5/8NIKPL
026	15N125	RDMACSCR 10-24UNC2X1/2 ZINC
027	15N137	FLATMACSCR 10-24UNC2X5/8 ZINC
028	15P011	03Z TRDCUT-F PANHD 10-24X1/2 NIKSTL
029	15P101	02Z TRDCUT-F PANHD 8-32X3/8 NIKSTL

ITEM NO.	PART NO.	DESCRIPTION
031	15U100	LOKWASHER MEDIUM #6 ZINCPL
032	15U120	LOCKWASHER MEDIUM #8 ZINCPL
033	15U150	LOCKWASHER MEDIUM #10 ZINCPL
034	17E065	INSERT 10-24 ZINCPL BOOTS#T71S065BL
035	27A010	DRAWERPULL W/SCREWS CHROME #701-20-1
036	51V015	01Z TEE PIPE 1/4"FGDBRASS AB#T7-444
037	53A031XB	BODY=MAL90ELL 1/4X1/4COMP W#B69X4X4
038	12K077	STRAP 1/2" HVYCONDUIT 2HOLE VICTR23S
042	53A031B	BODY=MAL90ELL 1/4X1/8COMP WH#B69X4
043	60E004T	02Z 1/4"ODX.170ID POLPEN #110-20-BK
044	53A500	1/4" SLEEVE DELRIN
045	53A501	TUBEINSERT .170"OD
046	53A059A	NUT 1/4" COMP. HOLYOKE #61
047	96R300AB	72117A 1/8"BODY-3WAY.06D NORM OPEN
048	96R300E	WASHER-SPONGE ASCO 64-352-5=96R300A
049	96R300F	CLIP-METAL ASCO 92-059-1 (1/96R300A)
050	96R300GA	YOKE ASCO 96-612-2=96R300A
051	96R300GB	SLEEVE ASCO 101-400-1 (2/96R300GA)
052	96R300CA	COIL 240V60C-FBASC099-216-5D=96R300A
053	96R300KB	NAMEPLATE ASCO FV-162872-2=96R300AA
054	01-10084	72155B NAMEPLATE=CHUTELOAD 60+72
055	02-15100	70107A MARKSTRIP=16FMIL K#600-16
056	03-01299	72055A SPRING=2RESET BUTTON
057	96R300AA	01Z 1/8"BODY-3WAY .06D ASCO TPL6689
058	03-01081	70155B HOOD (3") DRIP PROOF NAVYMIL
059	03-01182	BRACKET-HORIZONTAL
060	09N037	TOGSW 4PDT-NO OFF CH#7694K4 UNIPAK
061	03-01276	INSULATING MOUNTING RELAY 2/CWM
062	96R301CA	COIL 220V50C-FBASC099216-11D=96R300A

Litho in U.S.A.

BMP720049R
72257A

ILG INDUSTRIES INC.
2850 North Pulaski Road, Chicago, Illinois 60641

CENTRIFUGAL FANS

INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS

INSPECTION

Each unit should be carefully inspected immediately upon receipt, and, if there is any outward evidence of damage the freight bill should be marked: "RECEIVED WITH NOTED DAMAGE." (Concealed damage should be reported immediately to the delivery carrier.)

INSTALLATION

To install centrifugal fans, consider the following check points:

1. Mount fan on rigid, level foundation.
2. Turn fan wheel by hand. It should run free.
3. Inspect the clearance between the inlet cone and wheel. If there is interference, check the foundation bolt locations against the certified foundation plans to assure that the upright supports are not toed in or out. This is the most common cause of wheel and inlet interference. If the upright supports are properly set and the fan wheel still rubs, do the following.
4. Fans with radial gap between inlet and wheel - Loosen the inlet cone or cover plate and adjust its position so that there is even clearance between the inlet and wheel.
5. Fans with axial gap between inlet and wheel - Loosen the wheel on the shaft and adjust its position axially so that there is running clearance.
6. Make certain hub bolts and key are secured.
7. Make certain that all motor and bearing mounting screws, nuts and bolts are secured, and that sheaves will operate at right angles to shaft.
8. Give short, supervised running test before and after tightening down all foundation bolts.

WHEELS

All wheels are both statically and dynamically balanced at our factory. Under particular dirty conditions, materials may adhere to the fan wheel. The wheel should be cleaned at frequent intervals to prevent an unbalance condition due to a material build-up.

BEARINGS, DRIVES AND MOTORS

Detailed installation and maintenance information as published by bearing, sheave, and motor manufacturers is included with each fan. This information is included in the packing envelope, wired to the fan.

A good rule-of-thumb for proper belt tension is that under thumb pressure the belt should depress 1/64 of an inch per inch of center distance between the motor shaft and fan shaft.

Example: Center Distance 24"
24 x 1/64 = 24/64 or 3/8"

This is the proper belt depression under thumb pressure.

CAUTION: With the forward curve type of fan, it is possible to overload the motor when the fan is operated at a lower static pressure than the fan is rated. Consult your local sales agent or the factory for application engineering data.

COUPLINGS

Flexible couplings must be properly aligned. To do this lay a straight edge across the flanges of both sections at several points around the coupling and with a gage check for proper and equal clearance between the coupling halves.

STORING FAN EQUIPMENT

If it becomes necessary to store fan equipment for any length of time, the following protective measures should be taken.

1. DIRECT CONNECTED
   - A) Cover exposed portion of motor shaft with a heavy grease, such as cosmoline, which will not deteriorate with heat, moisture, or freezing temperatures.
   - B) Similar precautions should be taken with the motor, covering it with a waterproof paper.

2. BELT DRIVEN UNITS
   - A) Cover shaft and bearings with a heavy grease, such as cosmoline, which will not deteriorate with heat, moisture, or freezing temperatures.
   - B) Similar precautions should be taken with the motor and drives, covering them with waterproof paper.

Cover the inlet and outlet with a hood or plywood and waterproof paper. Periodically rotate wheel to keep grease distributed within the bearings.

NOTE: The manufacturer will not accept responsibility for fan equipment if it is not stored in accordance with the above procedure.

BM07100771

MAXIMUM WHEEL SPEEDS (RPM) SHOWN ON NAMEPLATE REFER TO FANS OPERATING AT 70°F. RUPTURE AND CREEP STRENGTH OF STEEL DECREASES RAPIDLY WITH INCREASE IN TEMPERATURE, CONSEQUENTLY, MAXIMUM SPEEDS MUST BE CORRECTED ACCORDINGLY.

SELECT TYPE OF CONSTRUCTION FOR THE REQUIRED TEMPERATURE AND MULTIPLY MAXIMUM RECOMMENDED WHEEL SPEED BY THE CORRECTION FACTOR SHOWN IN THE TABLE.

TEMP. °F		70°	200°	300°	400°	500°	600°	700°	800°	900°	1000°	1100°	1200°	1250°
STD CONSTR		1.00	.97	.95	.94	.91	.86	.82	.76	NOT AVAILABLE				
ALLOY STEEL	A-242	CONSULT FACTORY					1.00	.94	.83	.70				
	304 S.S.	1.00	.88	.86	.82	.78	.75	.72	.70	.68	.67	.65	.63	.62
	316 S.S.	1.00	.95	.92	.86	.82	.80	.77	.75	.73	.72	.70	.68	.64

THE ABOVE TABLE TO BE USED IN CONJUNCTION WITH THE MAXIMUM OPERATING TEMPERATURE SHOWN ON THE ORDER.

ALUMINUM WHEELS LIMITED TO 200° F.

ILG GUARANTEE

Ilg Industries Inc., guarantees its products to be free of original defects in material and workmanship for a period of one year from date of shipment from factory or from distributors stock, provided motors are properly installed with overload protection as or if required by national and/or local codes. Ilg agrees to repair or replace defective part or parts to be returned to Ilg, all transportation charges prepaid. Ilg does not guarantee against abrasion, corrosion or erosion. Ilg shall not be held responsible for any charges in connection with the removal or replacement of alleged defective equipment nor for incidental or consequential damages. Guarantees on purchased material are limited to terms of guarantee furnished by our supplier.

ILG INDUSTRIES INC.

GENERAL OFFICES

2850 North Pulaski Road, Chicago, Illinois 60641

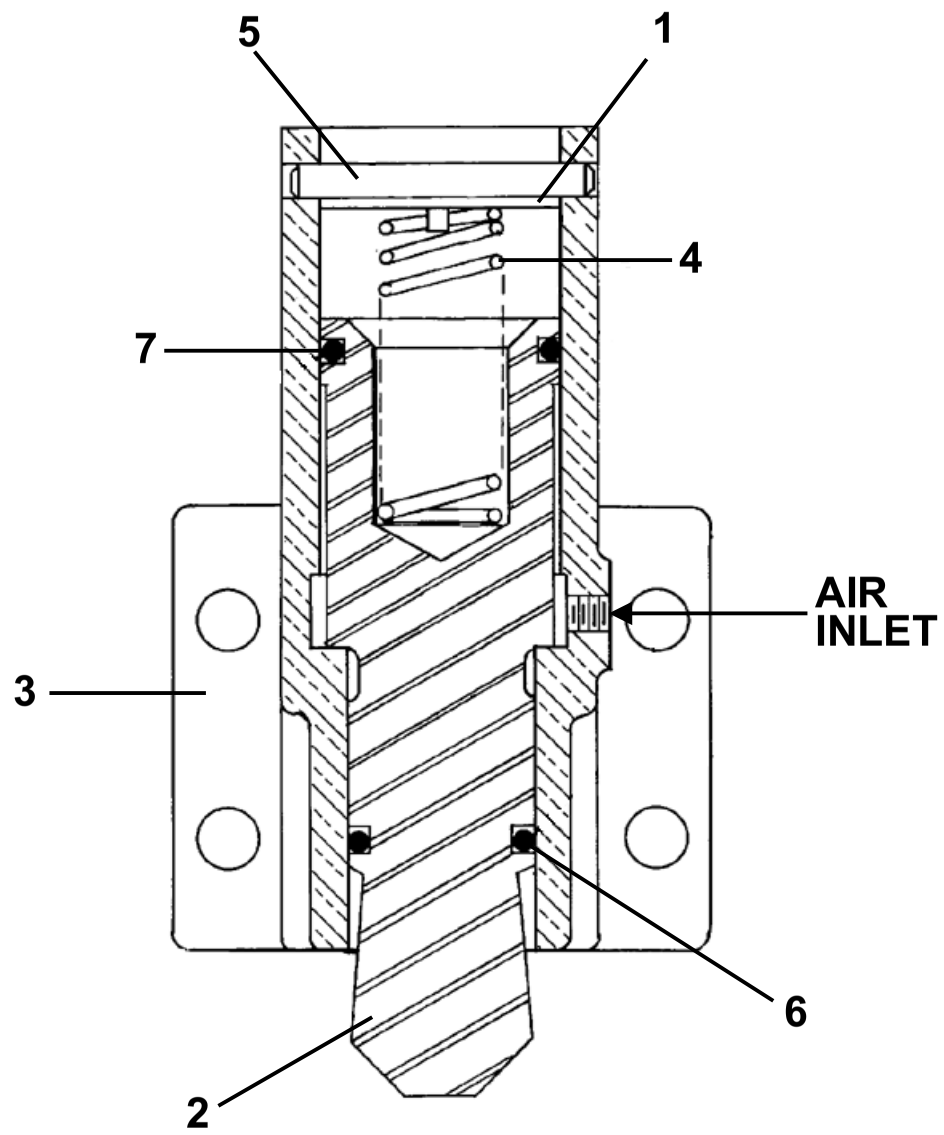
AREA CODE 312-545-1520

CHICAGO DIVISION INTERNATIONAL DIVISION WHEELING DIVISION

Interlock Plunger Assembly

Pellerin Milnor Corporation
P. O. Box 400, Kenner, LA 70063-0400

Litho in U.S.A.



Parts List—Interlock Plunger Assembly

Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.

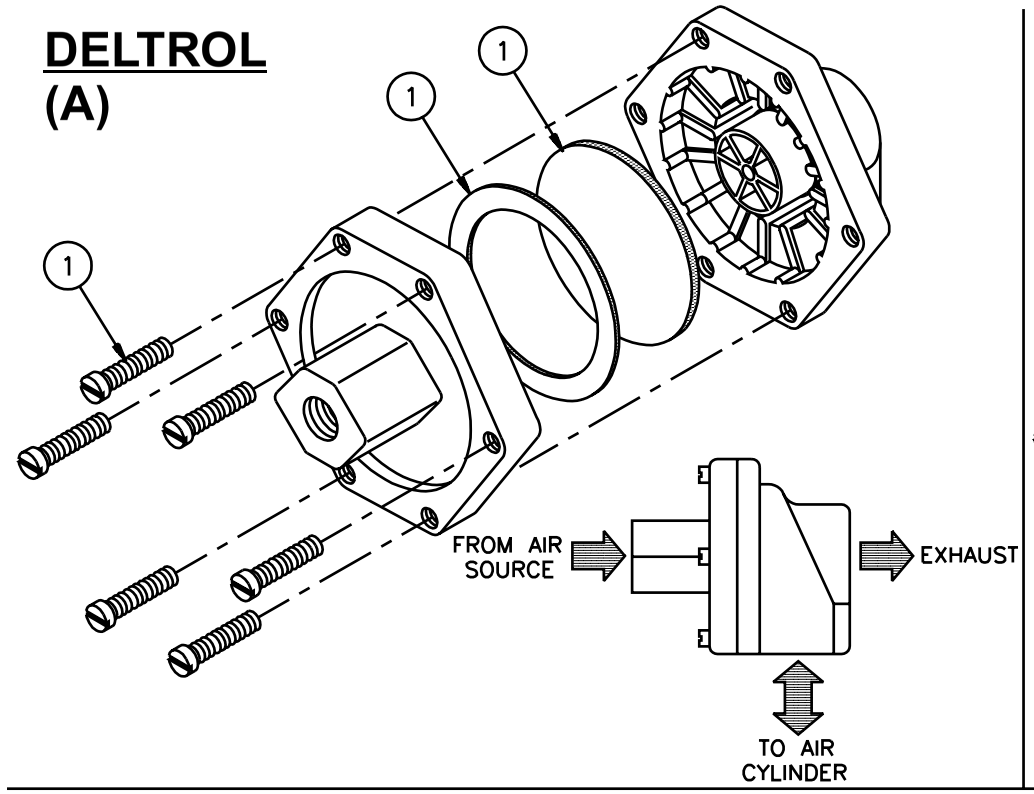
Used In	Item	Part Number	Description	Comments
			----------ASSEMBLIES----------	
	A	SA 15 028	70239D* DOOR LATCH ASSY-DIVCYLS	
			----------COMPONENTS----------	
all	1	02 15105	RETAINER LATCHSPRING	
all	2	02 15297	91103B PLUNGER=DOORLOCK(DIVCYL)	
all	3	02 15298	CYLINDER-DOORLATCH INTERLOCK	
all	4	02 15836	68201A DOOR LATCH SPRING (302SS)	
all	5	15H090	01Z SPRNG PIN 1/4X1+7/8 LONG PLAIN	
all	6	60C122	ORING 1" ID 1/8CS BN 70 DURO #214	
all	7	60C128	ORING 1+3/8 ID 1/8CS BN 70DURO #220	

Quick Exhaust Valves

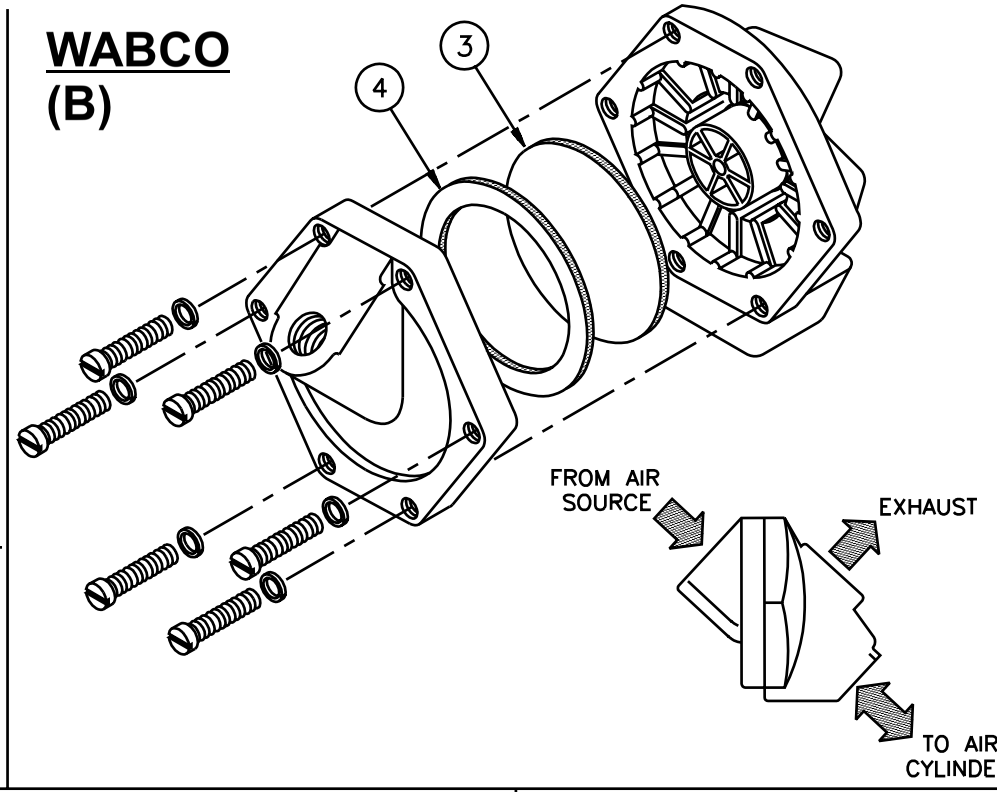
Pellerin Milnor Corporation
P. O. Box 400, Kenner, LA 70063-0400

Litho in U.S.A.

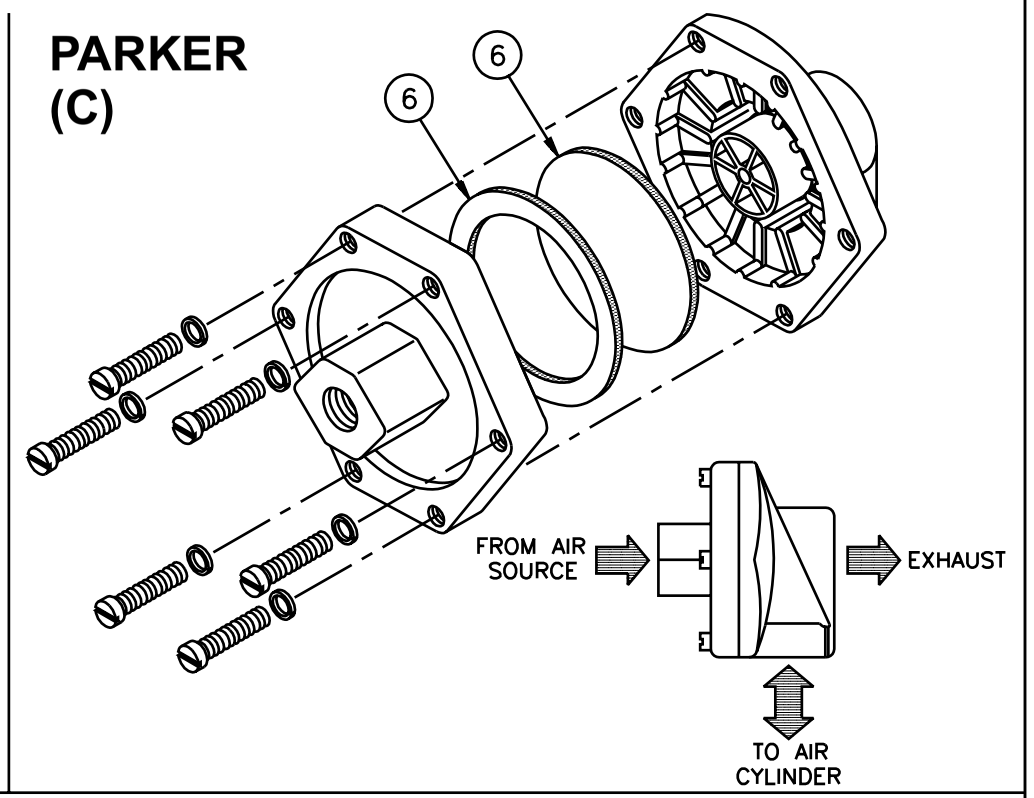
DELTROL
(A)



WABCO
(B)

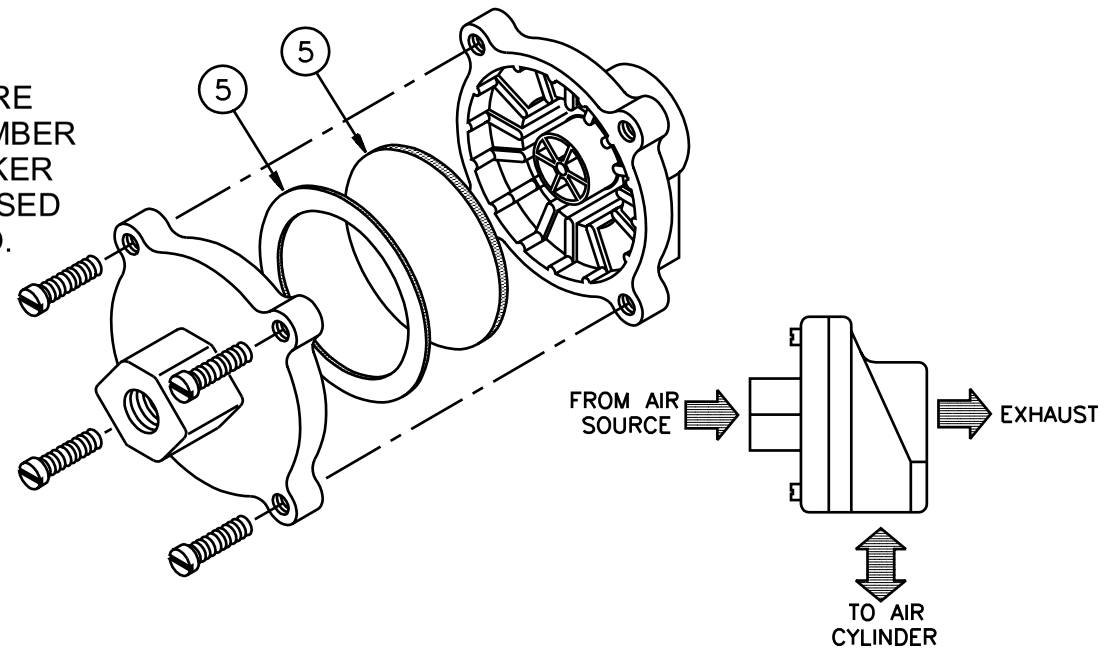


PARKER
(C)



ASCO
(D)

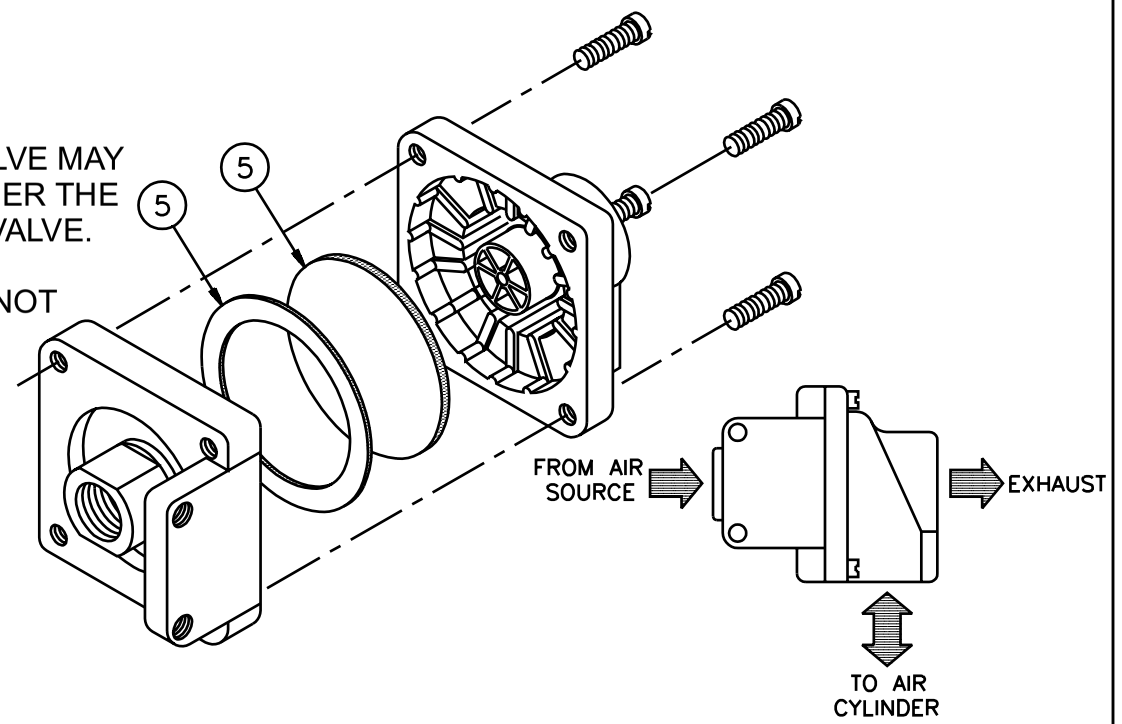
NOTE: ASCO VALVES ARE USED PRIOR TO NOVEMBER 1987. SINCE THEN PARKER VALVES HAVVE BEEN USED IN PLACE OF THE ASCO.



GOYEN
(E)

NOTE: THE GOYEN VALVE MAY BE REPLACES BY EITHER THE WABCO OR DELTROL VALVE.

THE GOYEN VALVE IS NOT TO BE USED IN PLACE OF THE WABCO OR DELTROL VALVE.



Pellerin Milnor Corporation
P. O. Box 400, Kenner, LA 70063-0400
Litho in U.S.A.

Parts List—Quick Exhaust Valves

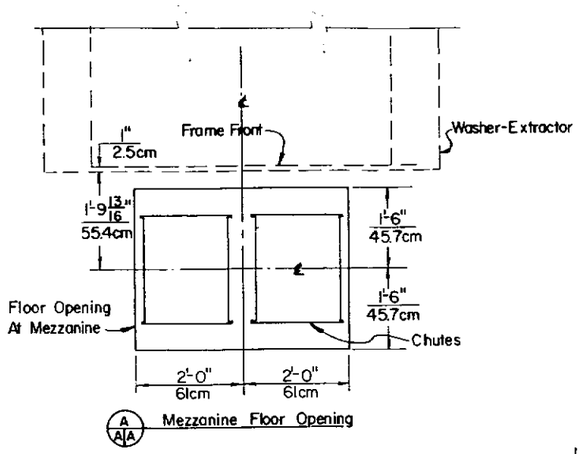
Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.

Used In	Item	Part Number	Description	Comments
			----------ASSEMBLIES----------	
	A	MESSAGE B2	REPAIR KITS ONLY <>	DELTROL
	B	96M051	USE KZK5B00100	WABCO
	C	96M054	QWIKEXHAUSTVLV 3/4"URETHANE	PARKER
	D	MESSAGE B1	PARTS NO LONGER SOLD	ASCO
	E	MESSAGE B2	REPAIR KITS ONLY <>	GOYEN
	F	96M055	QUICK EXHAUST VALVE 1/4”	DELTROL
			----------COMPONENTS----------	
all	1	96M053A	KIT,QWIKRELVLV EV20A#10091-18	DELTROL VALVE ONLY
all	3	96M051B	DIAPHRAM,QWIKREL WAB#PS112-12	WABCO VALVE ONLY
all	4	96M051A	GASKET,WABCO QUICK EXHAUST VLV	WABCO VALVE ONLY
all	5A	96M052A	REPKIT,QES#M1319 (FOR 96M052)	GOYEN VALVE ONLY
all	5B	96M055A	REPAIR KIT FOR 96M055# 10128-99	DELTROL VALVE ONLY
all	6	96M054K	REPKIT 3/4"QWIKEXHAUSTVLV	PARKER VALVE ONLY

PARTSLIST=INSTAL'N DWGS.

ITEM NO.	PART NO.	DESCRIPTION
001*	W4-00121	71260D SUCT PIPE=REAR BLOWER
002*	W4-00116	71260C SUCT PIPE OUTLET ASSY
003	04-00048	71260D PANEL=CHUTE SIDE
004	04-00049	71260D PANEL=CHUTE FRONT
005	60E320A120	HOSE 6"ID FLEXAUST PEX120"
006	A40C00100	71267A FAN TRANSITION ASSY-FRONT
007	A40C00200	71267A FAN TRANSITION ASSY-REAR
008*	W4-00117	71260B SUCT PIPE INLET ASSY
009	04-00118	71260C CHANNEL=CHUTE SUPPORT UPPER
010	W4-00016	71260C DOOR WELDMENT LOWER CHUTE
011	W4-00010	71260B CRANK WELDMENT CHUTE DOOR RT
012	W4-00062	71260B CRANK WELDMENT CHUTE DOOR LT
013	W4-00017	71260D FRAME LOWER CHUTE WLDMT
014	09R019	01Z MICSW SPDT KEYED BZ-2RQ128T
015	09R012	01Z MICSW SPDT CHROME BZE-RN125
016	04-00038	71260C BRACKET=TRACK MTG
017	04-00059	71260C ANGLE=STOP+SWITCHMOUNT LEFT
018	04-00060	71260C ANGLE=STOP+SWITCH MOUNT RIGHT
019	54V230	BUSHING VPUL 1+1/4" BROWN#P1
020	15E200	STDSQMACHKEY 1/4X2 C1018
021	04-00120	71260C SLEEVE=12" PIPE JOINT
022	04-00119	71260A CLAMP=CHUTE TUBE
023	04-00040	71260C TRACK=OUTER LONG
024	04-00041	71260C TRACK=OUTER SHORT
025	04-00044	71260D TRACK=INNER LONG
026	04-00045	71260D TRACK=INNER SHORT
027	04-00039	71260D ANGLE=FRONT TRACK SUPPORT
028	04-00191	BRACKET=TRANSITION CYL MTG
029	04-00189	PIVOT=TRANSITION LATCH
030	04-00190	ARM=TRANSITION LATCH
031	X2-02817A	FLANGE BUSH=TRANSITION LATCH

* Not used on all systems



PNEUMATIC DIAGRAM — Detail or Section Designator F A|C

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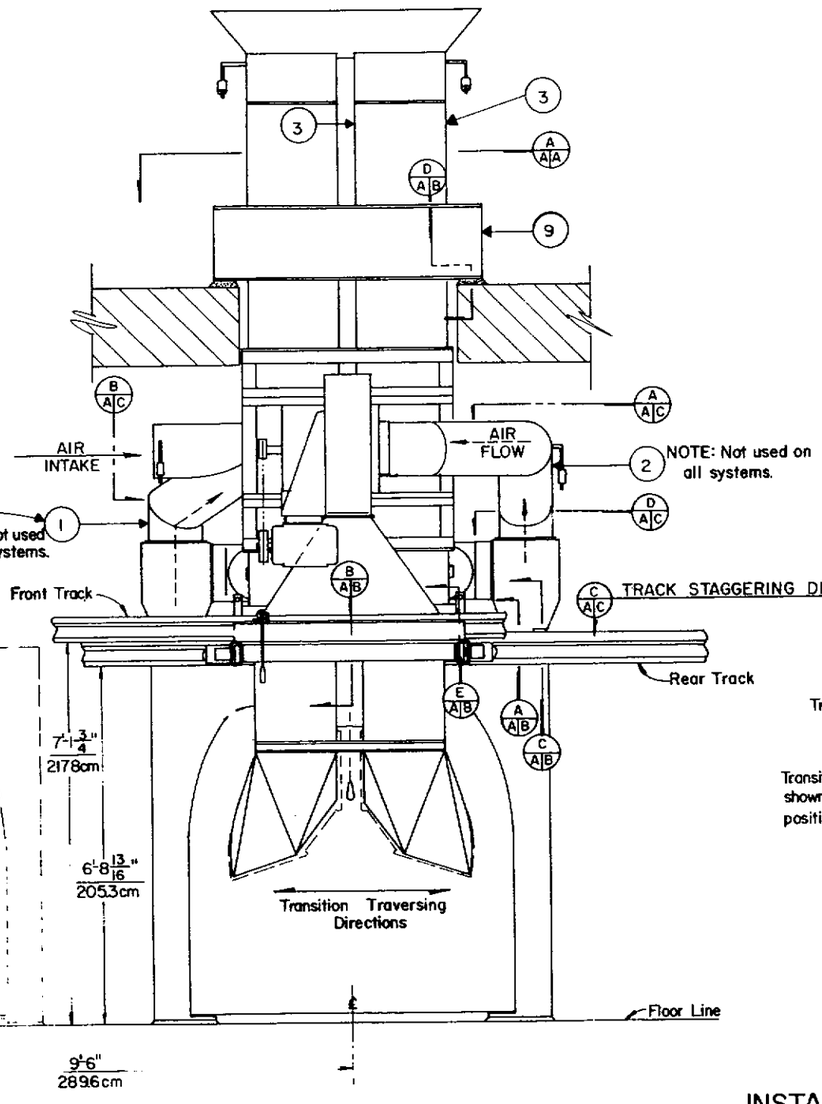
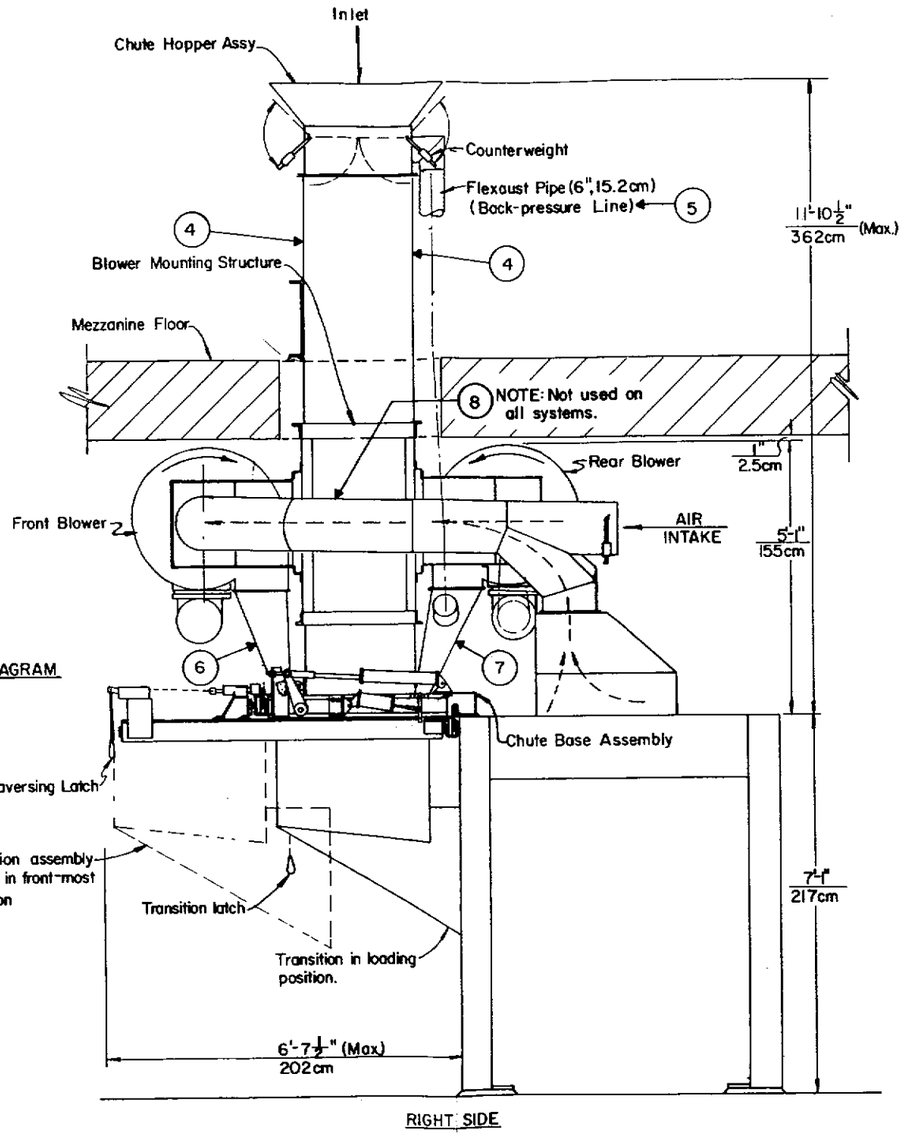
NOTE: For part numbers of items called out see BMP710055R

NOTE: Adjacent washer-extractors should be spaced as shown for alignment of holes in track.



FRONT ELEVATION



RIGHT SIDE

INSTALLATION = WED CHUTELOADER

Sheet 1 of 3

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72267D

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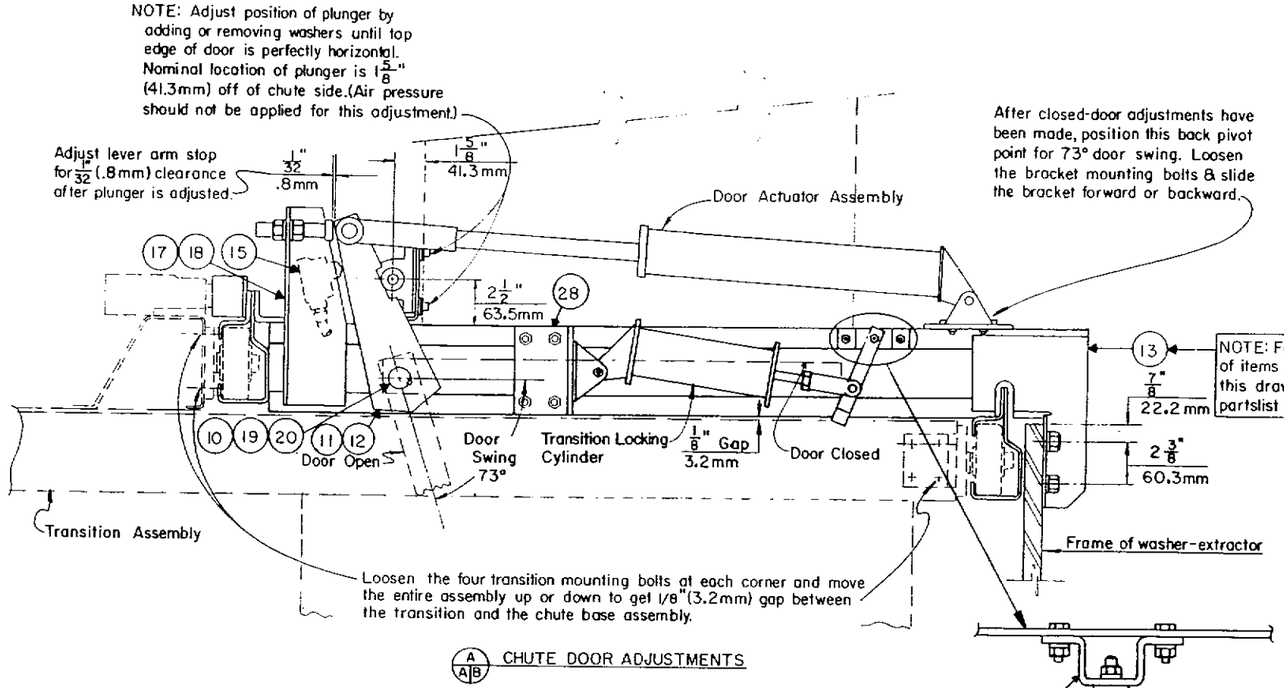
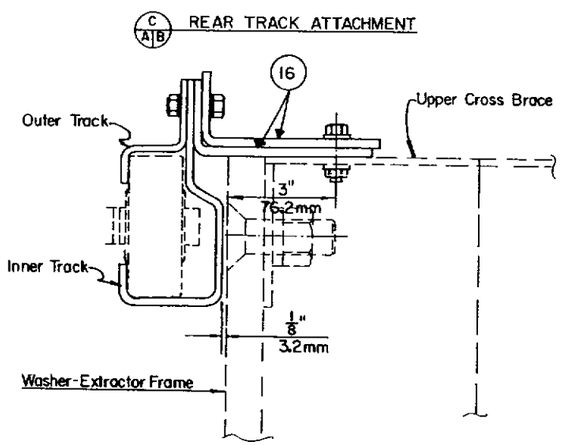
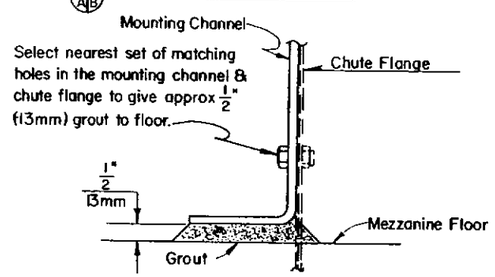


A A/B CHUTE DOOR ADJUSTMENTS



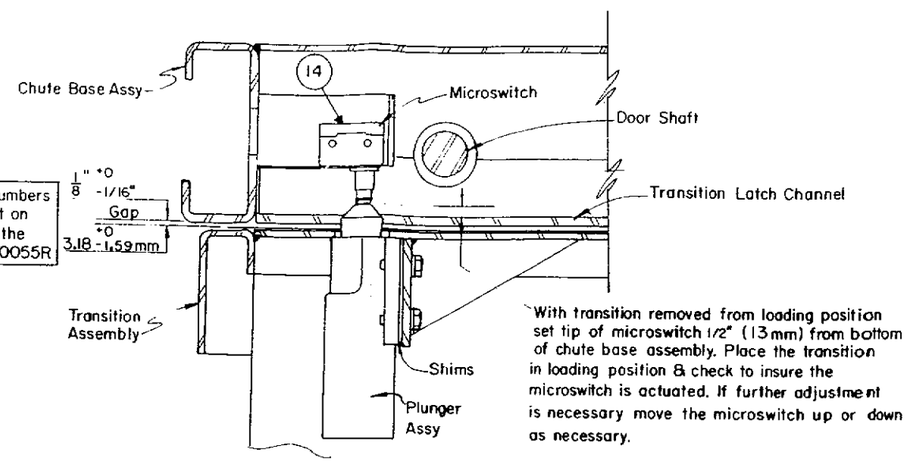
C A/B REAR TRACK ATTACHMENT



D A/B CHUTE SUPPORT DETAIL

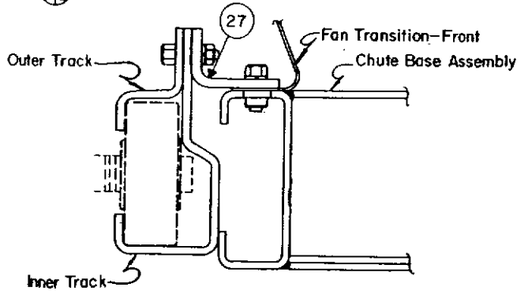
WARNING!! Before adjusting transition interlock be sure the following adjustments have been completed:

1. Transition is 1/8" +0 -1/16" (3.18mm +0 -1.59mm) below the chute base assy.
2. Latches at the back of transition are engaging properly.



B A/B TRANSITION INTERLOCK ADJUSTMENTS

E A/B FRONT TRACK ATTACHMENT



INSTALLATION=WED CHUTELOADER
Sheet 2 of 3
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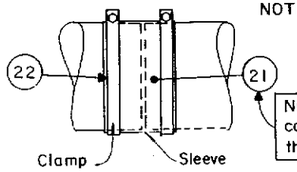
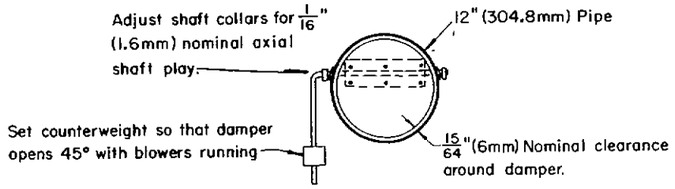
Fix sleeve to 12" (304.8mm) O.D. pipe with two band clamps. Be sure ends of pipe are centered inside of sleeve



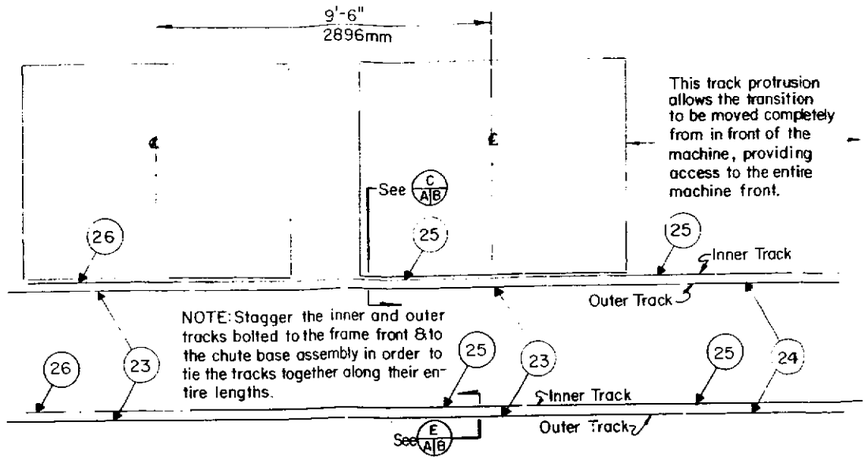
NOTE: Use sleeve & pipe to connect pipe to blower intake.

NOTE: For part numbers of items called out on this drawing see the partslist on BMP710055R

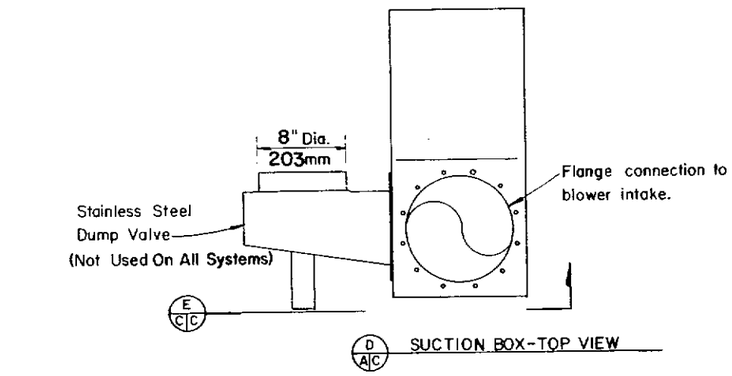
A/C AIR INTAKE-PIPE JOINT
(Not Used On All Systems)



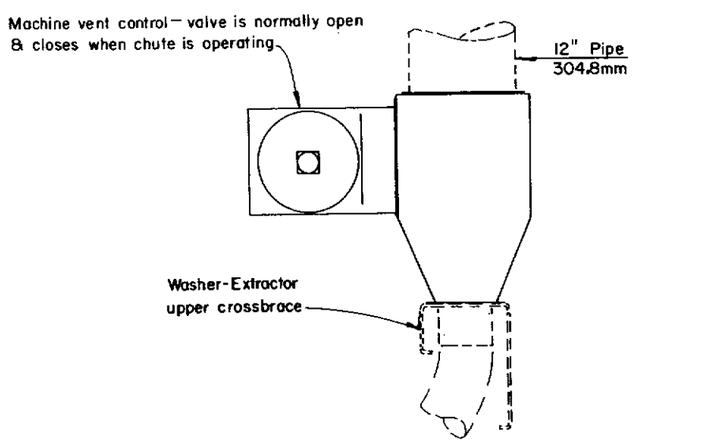
B/A|C AIR INTAKE – DAMPER
(Not Used On All Systems)



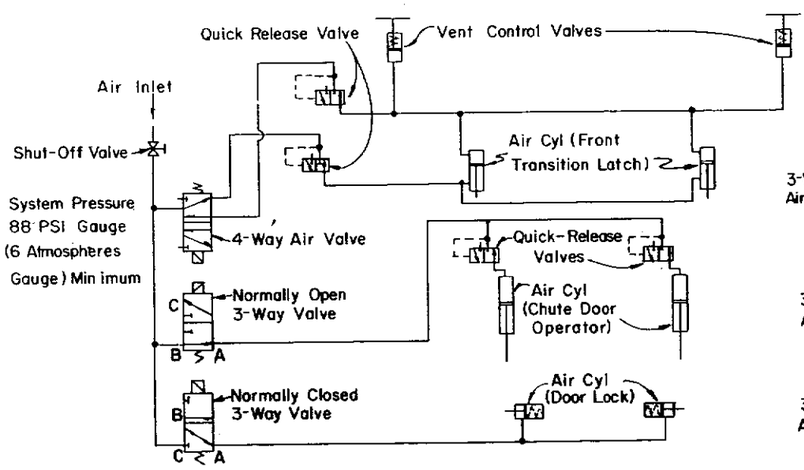
C/A|C TRACK STAGGERING DIAGRAM



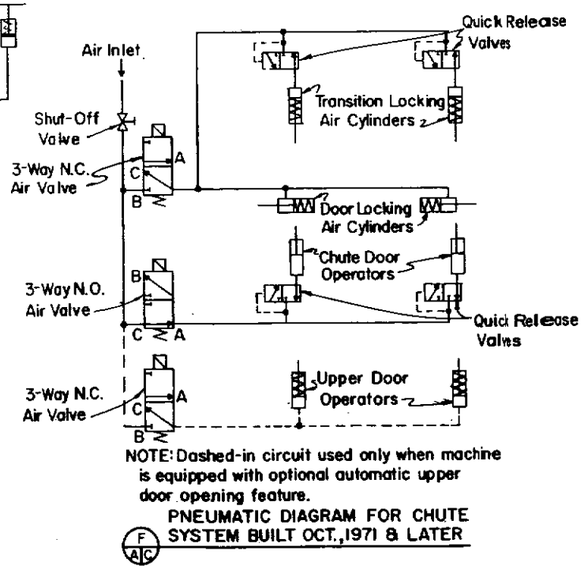
D/A|C SUCTION BOX-TOP VIEW



E/C|C SUCTION BOX-ELEVATION



PNEUMATIC DIAGRAM FOR CHUTE SYSTEM BUILT BEFORE OCTOBER, 1971
F/A|C



NOTE: Dashed-in circuit used only when machine is equipped with optional automatic upper door opening feature.

PNEUMATIC DIAGRAM FOR CHUTE SYSTEM BUILT OCT., 1971 & LATER
F/A|C

INSTALLATION=WED CHUTELOADER

Sheet 3 of 3

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