

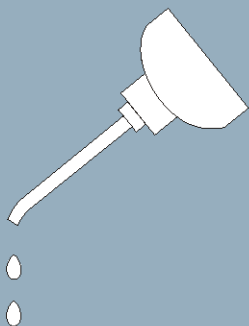


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Service

36021, 36026, 42026, 42030Vxx Washer-Extractors



**Read the
separate
safety
manual
before
installing,
operating,
or servicing**



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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 (unless the time period is specifically extended for certain parts pursuant to a specific MILNOR published extended warranty) 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, EX Factory (labor and freight specifically NOT included). 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 tampered with, modified, or abused, used for purposes not intended in the design and construction of the machine, or is repaired or altered in any way without MILNOR's written consent.

Parts damaged by exposure to weather, to aggressive water, or to chemical attack are not covered by this warranty. For parts which require routine replacement due to normal wear—such as gaskets, contact points, brake and clutch linings, belts, hoses, and similar parts—the warranty time period is 90 days.

We reserve the right to make changes in the design and/or construction of our equipment (including purchased components) without obligation to change any equipment previously supplied.

ANY SALE OR FURNISHING OF ANY EQUIPMENT BY MILNOR IS MADE ONLY UPON THE EXPRESS UNDERSTANDING THAT MILNOR MAKES NO EXPRESSED OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE OR PURPOSE OR ANY OTHER WARRANTY IMPLIED BY LAW INCLUDING BUT NOT LIMITED TO REDHIBITION. MILNOR WILL NOT BE RESPONSIBLE FOR ANY COSTS OR DAMAGES ACTUALLY INCURRED OR REQUIRED AS A RESULT OF: THE FAILURE OF ANY OTHER PERSON OR ENTITY TO PERFORM ITS RESPONSIBILITIES, FIRE OR OTHER HAZARD, ACCIDENT, IMPROPER STORAGE, MIS-USE, NEGLIGENCE, POWER OR ENVIRONMENTAL CONTROL MALFUNCTIONS, DAMAGE FROM LIQUIDS, OR ANY OTHER CAUSE BEYOND THE NORMAL RANGE OF USE. REGARDLESS OF HOW CAUSED, IN NO EVENT SHALL MILNOR BE LIABLE FOR SPECIAL, INDIRECT, PUNITIVE, LIQUIDATED, OR CONSEQUENTIAL COSTS OR DAMAGES, OR ANY COSTS OR DAMAGES WHATSOEVER WHICH EXCEED THE PRICE PAID TO MILNOR FOR THE EQUIPMENT IT SELLS OR FURNISHES.

THE PROVISIONS ON THIS PAGE REPRESENT THE ONLY WARRANTY FROM MILNOR AND NO OTHER WARRANTY OR CONDITIONS, STATUTORY OR OTHERWISE, SHALL BE IMPLIED.

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.

BMP720097/19036

How to Get the Necessary Repair Components



This document uses Simplified Technical English.
Learn more at <http://www.asd-ste100.org>.

You can get components to repair your machine from the approved supplier where you got this machine. Your supplier will usually have the necessary components in stock. You can also get components from the Milnor® factory.

Tell the supplier the machine model and serial number and this data for each necessary component:

- The component number from this manual
- The component name if known
- The necessary quantity
- The necessary transportation requirements
- If the component is an electrical component, give the schematic number if known.
- If the component is a motor or an electrical control, give the nameplate data from the used component.

To write to the Milnor factory:

Pellerin Milnor Corporation
Post Office Box 400
Kenner, LA 70063-0400
UNITED STATES

Telephone: 504-467-2787
Fax: 504-469-9777
Email: parts@milnor.com

— End of BIUUUD19 —

Trademarks

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These words are trademarks of Pellerin Milnor Corporation and other entities:

Table 1 Trademarks

AutoSpot™	GreenTurn™	Milnor®	PulseFlow®
CBW®	GreenFlex™	MilMetrix®	PurePulse®
Drynet™	Hydro-cushion™	MilTouch™	Ram Command™
E-P Express®	Linear Costa Master™	MilTouch-EX™	RecircONE®
E-P OneTouch®	Linear Costo™	Miltrac™	RinSave®
E-P Plus®	Mentor®	MultiTrac™	SmoothCoil™
Gear Guardian®	Mildata®	PBW™	Staph Guard®

End of document: BNUUUU02

Safety—Rigid Washer Extractors

1. General Safety Requirements—Vital Information for Management Personnel [Document BIUUUS04]

Incorrect installation, neglected preventive maintenance, abuse, and/or improper repairs, or changes to the machine can cause unsafe operation and personal injuries, such as multiple fractures, amputations, or death. The owner or his selected representative (owner/user) is responsible for understanding and ensuring the proper operation and maintenance of the machine. The owner/user must familiarize himself with the contents of all machine instruction manuals. The owner/user should direct any questions about these instructions to a Milnor® dealer or the Milnor® Service department.

Most regulatory authorities (including OSHA in the USA and CE in Europe) hold the owner/user ultimately responsible for maintaining a safe working environment. Therefore, the owner/user must do or ensure the following:

- recognize all foreseeable safety hazards within his facility and take actions to protect his personnel, equipment, and facility;
- work equipment is suitable, properly adapted, can be used without risks to health or safety, and is adequately maintained;
- where specific hazards are likely to be involved, access to the equipment is restricted to those employees given the task of using it;
- only specifically designated workers carry out repairs, modifications, maintenance, or servicing;
- information, instruction, and training is provided;
- workers and/or their representatives are consulted.

Work equipment must comply with the requirements listed below. The owner/user must verify that installation and maintenance of equipment is performed in such a way as to support these requirements:

- control devices must be visible, identifiable, and marked; be located outside dangerous zones; and not give rise to a hazard due to unintentional operation;
- control systems must be safe and breakdown/damage must not result in danger;
- work equipment is to be stabilized;
- protection against rupture or disintegration of work equipment;
- guarding, to prevent access to danger zones or to stop movements of dangerous parts before the danger zones are reached. Guards to be robust; not give rise to any additional hazards; not be easily removed or rendered inoperative; situated at a sufficient distance from the danger zone; not restrict view of operating cycle; allow fitting, replacing, or maintenance by restricting access to relevant area and without removal of guard/protection device;
- suitable lighting for working and maintenance areas;
- maintenance to be possible when work equipment is shut down. If not possible, then protection measures to be carried out outside danger zones;
- work equipment must be appropriate for preventing the risk of fire or overheating; discharges of gas, dust, liquid, vapor, other substances; explosion of the equipment or substances in it.

- 1.1. **Laundry Facility**—Provide a supporting floor that is strong and rigid enough to support—with a reasonable safety factor and without undue or objectionable deflection—the weight of the fully loaded machine and the forces transmitted by it during operation. Provide sufficient clearance for machine movement. Provide any safety guards, fences, restraints, devices, and verbal and/or posted restrictions necessary to prevent personnel, machines, or other moving machinery from accessing the machine or its path. Provide adequate ventilation to carry away heat and vapors. Ensure service connections to installed machines meet local and national safety standards, especially regarding the electrical disconnect (see the National Electric Code). Prominently post safety information, including signs showing the source of electrical disconnect.
- 1.2. **Personnel**—Inform personnel about hazard avoidance and the importance of care and common sense. Provide personnel with the safety and operating instructions that apply to them. Verify that personnel use proper safety and operating procedures. Verify that personnel understand and abide by the warnings on the machine and precautions in the instruction manuals.
- 1.3. **Safety Devices**—Ensure that no one eliminates or disables any safety device on the machine or in the facility. Do not allow machine to be used with any missing guard, cover, panel or door. Service any failing or malfunctioning device before operating the machine.
- 1.4. **Hazard Information**—Important information on hazards is provided on the machine safety placards, in the Safety Guide, and throughout the other machine manuals. **Placards must be kept clean so that the information is not obscured. They must be replaced immediately if lost or damaged. The Safety Guide and other machine manuals must be available at all times to the appropriate personnel.** See the machine service manual for safety placard part numbers. Contact the Milnor Parts department for replacement placards or manuals.
- 1.5. **Maintenance**—Ensure the machine is inspected and serviced in accordance with the norms of good practice and with the preventive maintenance schedule. Replace belts, pulleys, brake shoes/disks, clutch plates/tires, rollers, seals, alignment guides, etc. before they are severely worn. Immediately investigate any evidence of impending failure and make needed repairs (e.g., cylinder, shell, or frame cracks; drive components such as motors, gear boxes, bearings, etc., whining, grinding, smoking, or becoming abnormally hot; bending or cracking of cylinder, shell, frame, etc.; leaking seals, hoses, valves, etc.) Do not permit service or maintenance by unqualified personnel.

2. Safety Alert Messages—Internal Electrical and Mechanical Hazards [Document BIUUUS11]

The following are instructions about hazards inside the machine and in electrical enclosures.



WARNING 1: Electrocution and Electrical Burn Hazards—Contact with electric power can kill or seriously injure you. Electric power is present inside the cabinetry unless the main machine power disconnect is off.

- Do not unlock or open electric box doors.
- Do not remove guards, covers, or panels.
- Do not reach into the machine housing or frame.
- Keep yourself and others off of machine.
- Know the location of the main machine disconnect and use it in an emergency to remove all electric power from the machine.



WARNING 2: Entangle and Crush Hazards—Contact with moving components normally isolated by guards, covers, and panels, can entangle and crush your limbs. These components move automatically.

- Do not remove guards, covers, or panels.
- Do not reach into the machine housing or frame.
- Keep yourself and others off of machine.
- Know the location of all emergency stop switches, pull cords, and/or kick plates and use them in an emergency to stop machine motion.

3. Safety Alert Messages—Cylinder and Processing Hazards

[Document BIUUUS13]

The following are instructions about hazards related to the cylinder and laundering process.



DANGER 3: Entangle and Sever Hazards—Contact with goods being processed can cause the goods to wrap around your body or limbs and dismember you. The goods are normally isolated by the locked cylinder door.

- Do not attempt to open the door or reach into the cylinder until the cylinder is stopped.
- Do not touch goods inside or hanging partially outside the turning cylinder.
- Do not operate the machine with a malfunctioning door interlock.
- Know the location of all emergency stop switches, pull cords, and/or kick plates and use them in an emergency to stop machine motion.
- Know the location of the main machine disconnect and use it in an emergency to remove all electric power from the machine.



WARNING 4: Crush Hazards—Contact with the turning cylinder can crush your limbs. The cylinder will repel any object you try to stop it with, possibly causing the object to strike or stab you. The turning cylinder is normally isolated by the locked cylinder door.

- Do not attempt to open the door or reach into the cylinder until the cylinder is stopped.
- Do not place any object in the turning cylinder.
- Do not operate the machine with a malfunctioning door interlock.



WARNING 5: Confined Space Hazards—Confinement in the cylinder can kill or injure you. Hazards include but are not limited to panic, burns, poisoning, suffocation, heat prostration, biological contamination, electrocution, and crushing.

- Do not attempt unauthorized servicing, repairs, or modification.



WARNING 6: Explosion and Fire Hazards—Flammable substances can explode or ignite in the cylinder, drain trough, or sewer. The machine is designed for washing with water, not any other solvent. Processing can cause solvent-containing goods to give off flammable vapors.

- Do not use flammable solvents in processing.
- Do not process goods containing flammable substances. Consult with your local fire department/public safety office and all insurance providers.

4. Safety Alert Messages—Unsafe Conditions [Document BIUUUS14]

4.1. Damage and Malfunction Hazards

4.1.1. Hazards Resulting from Inoperative Safety Devices



DANGER 7: Entangle and Sever Hazards—Cylinder door interlock—Operating the machine with a malfunctioning door interlock can permit opening the door when the cylinder is turning and/or starting the cycle with the door open, exposing the turning cylinder.

- Do not operate the machine with any evidence of damage or malfunction.



WARNING 8: Multiple Hazards—Operating the machine with an inoperative safety device can kill or injure personnel, damage or destroy the machine, damage property, and/or void the warranty.

- Do not tamper with or disable any safety device or operate the machine with a malfunctioning safety device. Request authorized service.



WARNING 9: Electrocutation and Electrical Burn Hazards—Electric box doors—Operating the machine with any electric box door unlocked can expose high voltage conductors inside the box.

- Do not unlock or open electric box doors.



WARNING 10: Entangle and Crush Hazards—Guards, covers, and panels—Operating the machine with any guard, cover, or panel removed exposes moving components.

- Do not remove guards, covers, or panels.

4.1.2. Hazards Resulting from Damaged Mechanical Devices



WARNING 11: Multiple Hazards—Operating a damaged machine can kill or injure personnel, further damage or destroy the machine, damage property, and/or void the warranty.

- Do not operate a damaged or malfunctioning machine. Request authorized service.



WARNING 12: Explosion Hazards—Cylinder—A damaged cylinder can rip apart during extraction, puncturing the shell and discharging metal fragments at high speed.

- Do not operate the machine with any evidence of damage or malfunction.



WARNING 13: Explosion Hazards—Clutch and speed switch (multiple motor machines)—A damaged clutch or speed switch can permit the low speed motor to engage during extract. This will over-speed the motor and pulleys and can cause them to rip apart, discharging metal fragments at high speed.

- Stop the machine immediately if any of these conditions occur: • abnormal whining sound during extract • skidding sound as extract ends • clutches remain engaged or re-engage during extract

4.2. Careless Use Hazards

4.2.1. Careless Operation Hazards—Vital Information for Operator Personnel (see also operator hazards throughout manual)



WARNING 14: Multiple Hazards—Careless operator actions can kill or injure personnel, damage or destroy the machine, damage property, and/or void the warranty.

- Do not tamper with or disable any safety device or operate the machine with a malfunctioning safety device. Request authorized service.
- Do not operate a damaged or malfunctioning machine. Request authorized service.
- Do not attempt unauthorized servicing, repairs, or modification.
- Do not use the machine in any manner contrary to the factory instructions.
- Use the machine only for its customary and intended purpose.
- Understand the consequences of operating manually.

4.2.2. Careless Servicing Hazards—Vital Information for Service Personnel (see also service hazards throughout manuals)



WARNING 15: Electrocutation and Electrical Burn Hazards—Contact with electric power can kill or seriously injure you. Electric power is present inside the cabinetry unless the main machine power disconnect is off.

- Do not service the machine unless qualified and authorized. You must clearly understand the hazards and how to avoid them.
- Abide by the current OSHA lockout/tagout standard when lockout/tagout is called for in the service instructions. Outside the USA, abide by the OSHA standard in the absence of any other overriding standard.



WARNING 16: Entangle and Crush Hazards—Contact with moving components normally isolated by guards, covers, and panels, can entangle and crush your limbs. These components move automatically.

- Do not service the machine unless qualified and authorized. You must clearly understand the hazards and how to avoid them.
- Abide by the current OSHA lockout/tagout standard when lockout/tagout is called for in the service instructions. Outside the USA, abide by the OSHA standard in the absence of any other overriding standard.



WARNING 17: Confined Space Hazards—Confinement in the cylinder can kill or injure you. Hazards include but are not limited to panic, burns, poisoning, suffocation, heat prostration, biological contamination, electrocution, and crushing.

- Do not enter the cylinder until it has been thoroughly purged, flushed, drained, cooled, and immobilized.

— End of BIUUUS27 —

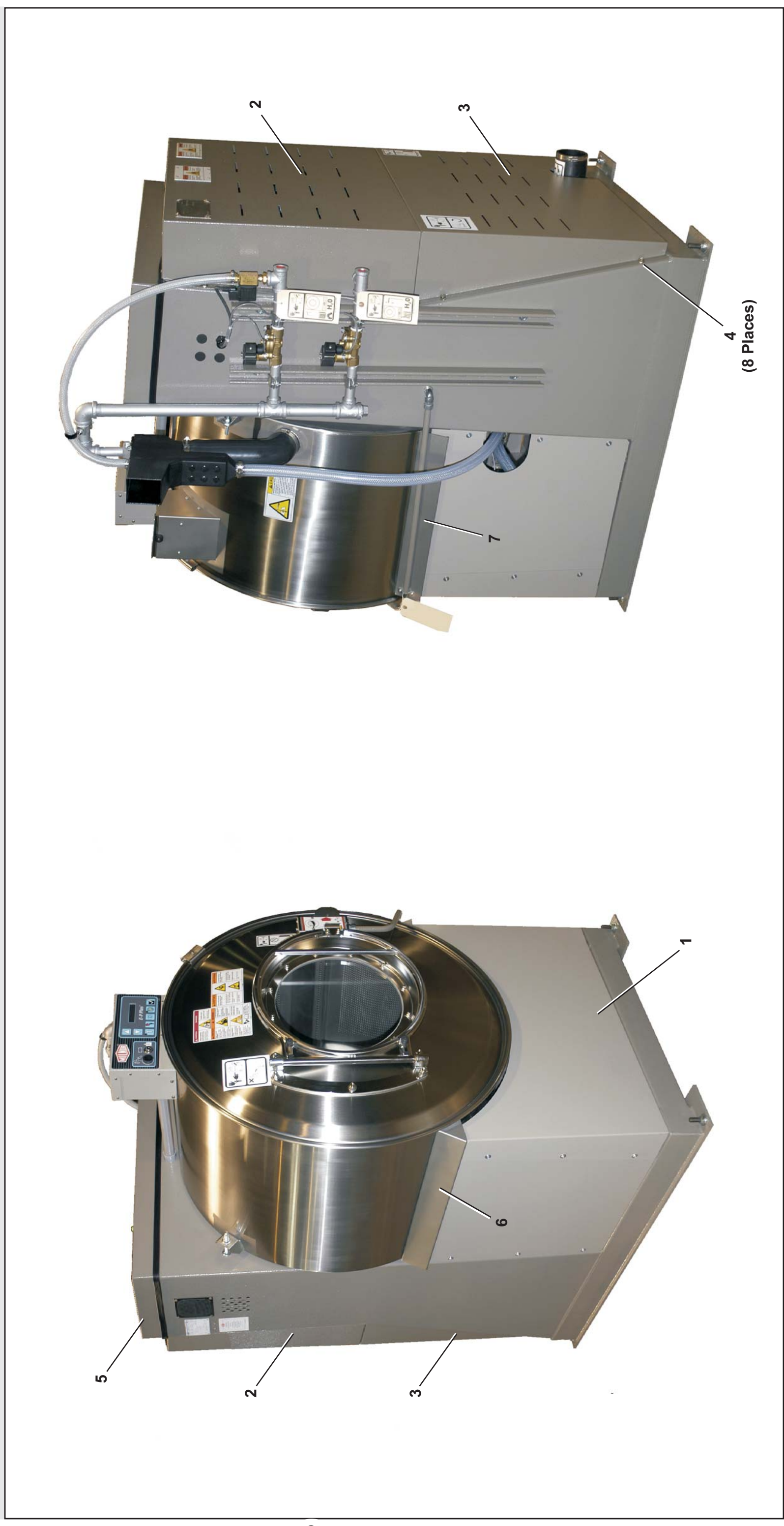
Guards and Covers
36021V5J, 36026V5J

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Parts List—Guards and Covers

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	GG514810	GUARDS+CVRS INST 3021/26 V5J	
			-----COMPONENTS-----	
all	1	AGS14808	FRONT COVER ASSY 36V5	
all	2	03 11082	BELTGRD-UPPER 3021/26 V5J	
all	3	03 11083	BELTGRD-LOWER 3021/26 V5J	
all	4	15P200	TRDCUT-F HXWASHD 3/8-16X3/4NIK	
all	5	AGS14807A	TOP COVER ASSY 36' STARPLATE	
all	6	02 11948B	LEFT COSMETIC SKIRT	
all	7	02 11948C	RIGHT COSMETIC SKIRT	

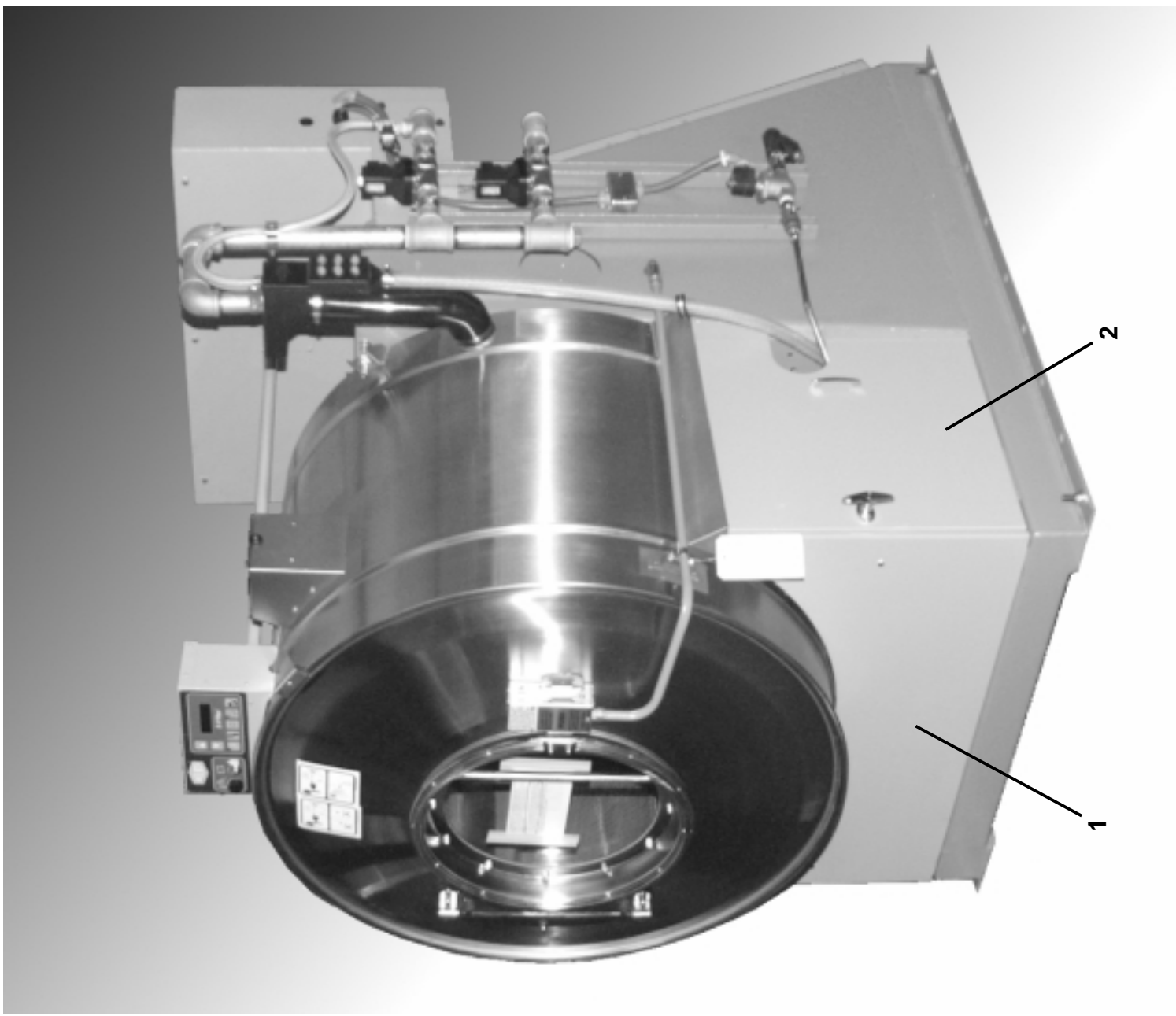
Guards and Covers
36026V7J,V7W 42026V6J,V6W

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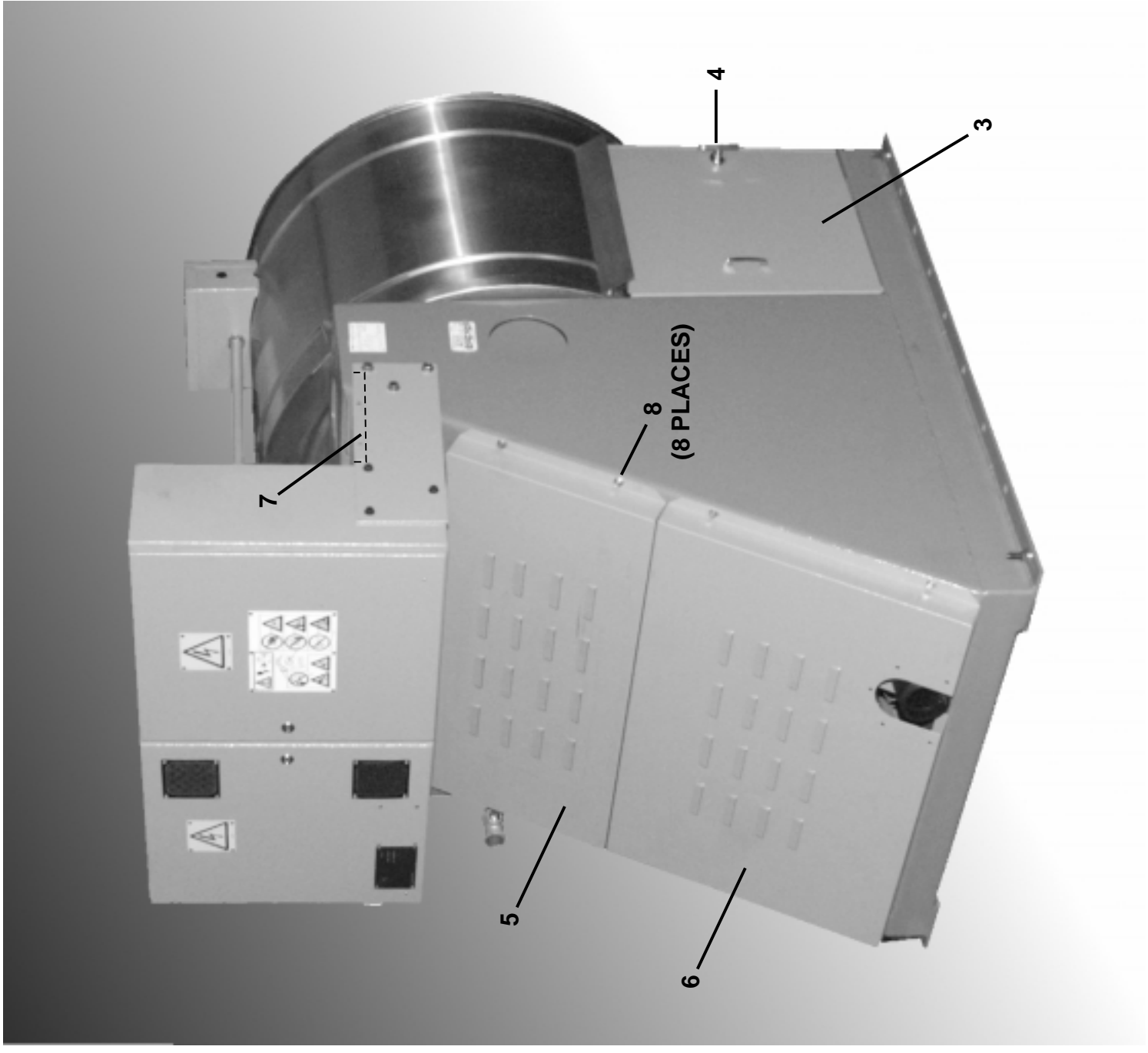


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42026V6J
SHOWN



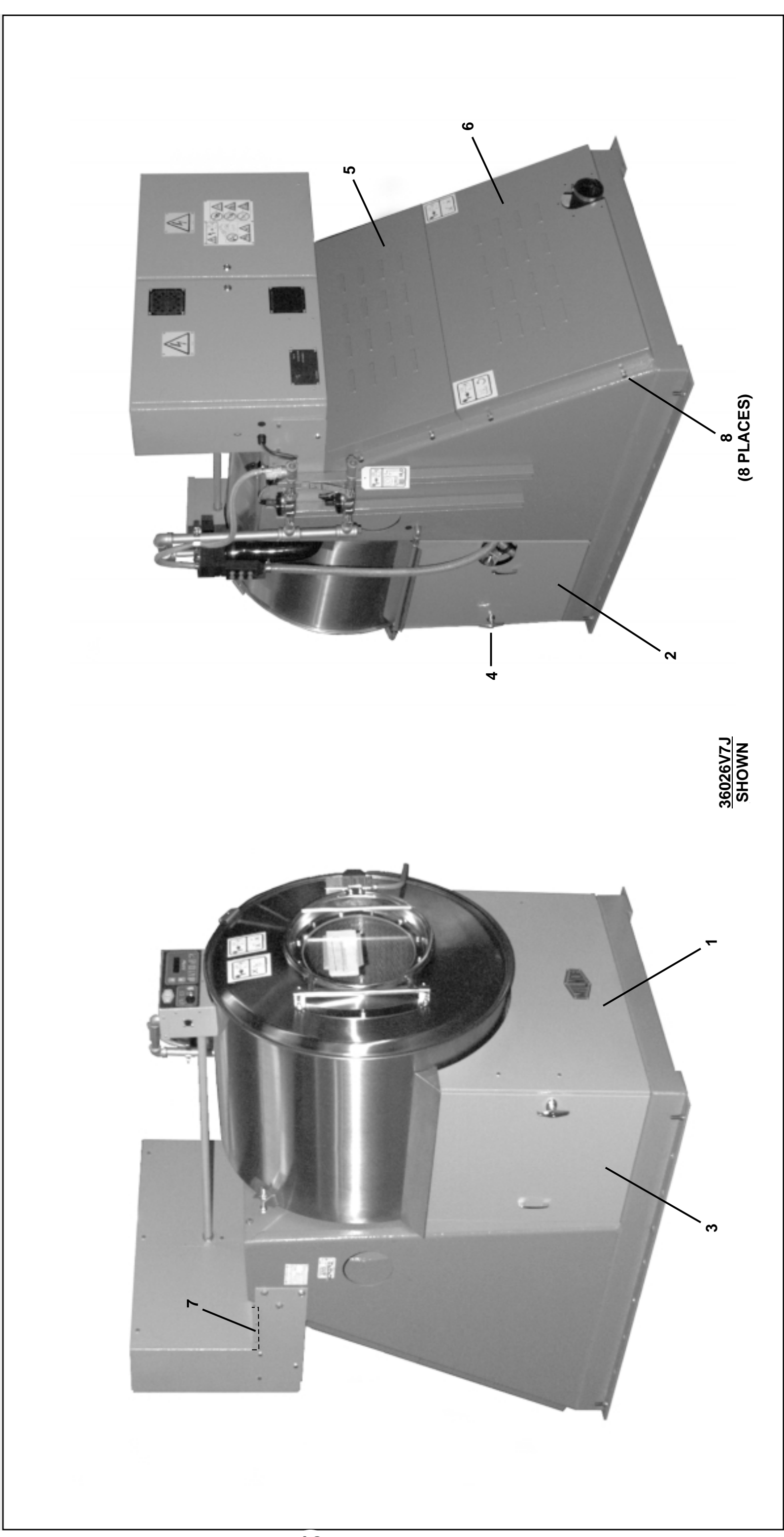
Guards and Covers
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36026V7J
SHOWN



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Parts List—Guards & Covers

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	GG5119001S	COVER ASSY 42R6P&G	
	B	AGS119001S	ASSY SIDECOVER +HANDLES	
	C	GG5119003V	REAR COVER ASSY 4226V	
	D	GG514801S	GUARDS+COVER ASSY 36R7P&G	
	E	AGS14801S	GUARDS&COVERS ASSY 36Q	
-----COMPONENTS-----				
all	1	02 11908E	+COVER=FRONT COSMETIC 42QU	
all	1	02 14821A	+FRONT COSMETIC 36Q	
all	2	02 11908H	+COSM=RT/DOOR	
all	2	02 14821B	+COSMETIC RIGHT DOOR 36Q	
all	3	02 11908I	+COSM=LFT/DOOR	
all	3	02 14821C	+COSMETIC LEFT SIDE 36Q	
all	4	27A012LTKS	LOCK"T"HANDL,S.LTCH&MTGHDW	
all	5	03 11071	REAR COVER UP 36V7/42V6	
all	6	03 11070	REAR COVER LOW 36V7/42V6	
all	7	03 11069	COVUPREAR CNTLBOX 36V7/42V6	
all	8	15P200	TRDCUT-F HXWASHD 3/8-16X3/4NIK	

About the Forces Transmitted by Milnor® Washer-extractors

During washing and extracting, all washer-extractors transmit both static and dynamic (cyclic) forces to the floor, foundation, or any other supporting structure. During washing, the impact of the goods as they drop imparts forces which are quite difficult to quantify. Size for size, both rigid and flexibly-mounted machines transmit approximately the same forces during washing. During extracting, rigid machines transmit forces up to 30 times greater than equivalent flexibly-mounted models. The actual magnitude of these forces vary according to several factors:

- machine size,
- final extraction speed,
- amount, condition, and type of goods being processed,
- the liquor level and chemical conditions in the bath preceding extraction, and
- other miscellaneous factors.

Estimates of the maximum force normally encountered are available for each Milnor® model and size upon request. Floor or foundation sizes shown on any Milnor® document are only for on-grade situations based only on previous experience without implying any warranty, obligation, or responsibility on our part.

1. Rigid Machines

Size for size, rigid washer-extractors naturally require a stronger, more rigid floor, foundation, or other supporting structure than flexibly-mounted models. If the supporting soil under the slab is itself strong and rigid enough and has not subsided to leave the floor slab suspended without support, on grade installations can often be made directly to an existing floor slab if it has enough strength and rigidity to safely withstand our published forces without transmitting undue vibration. If the subsoil has subsided, or if the floor slab itself has insufficient strength and rigidity, a deeper foundation, poured as to become monolithic with the floor slab, may be required. Support pilings may even be required if the subsoil itself is “springy” (i.e., if its resonant frequency is near the operating speed of the machine). Above-grade installations of rigid machines also require a sufficiently strong and rigid floor or other supporting structure as described below.

2. Flexibly-mounted Machines

Size for size, flexibly-mounted machines generally do not require as strong a floor, foundation, or other supporting structure as do rigid machines. However, a floor or other supporting structure having sufficient strength and rigidity, as described in [Section 3](#), is nonetheless vitally important for these models as well.

3. How Strong and Rigid?

Many building codes in the U.S.A. specify that laundry floors must have a minimum live load capacity of 150 pounds per square foot (732 kilograms per square meter). However, even compliance with this or any other standard does not necessarily guarantee sufficient rigidity. In any event, it is the sole responsibility of the owner/user to assure that the floor and/or any other supporting structure exceeds not only all applicable building codes, but also that the floor and/or any other supporting structure for each washer-extractor or group of washer-extractors actually has sufficient strength and rigidity, plus a reasonable factor of safety for both, to support the weight of all the fully loaded machine(s) including the weight of the water and goods, and including the published 360° rotating sinusoidal RMS forces that are transmitted by the machine(s). Moreover, the floor, foundation, or other supporting structure must have sufficient

rigidity (i.e., a natural or resonant frequency many times greater than the machine speed with a reasonable factor of safety); otherwise, the mentioned 360° rotating sinusoidal RMS forces can be multiplied and magnified many times. It is especially important to consider all potential vibration problems that might occur due to all possible combinations of forcing frequencies (rotating speeds) of the machine(s) compared to the natural frequencies of the floor and/or any other supporting structure(s). A qualified soil and/or structural engineer must be engaged for this purpose.

Figure 1: How Rotating Forces Act on the Foundation

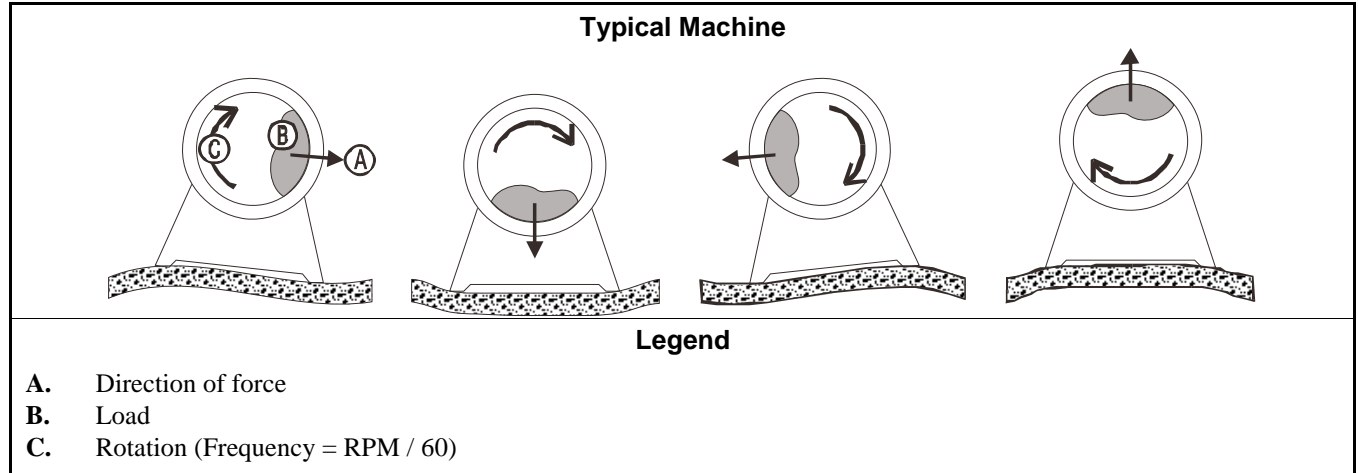


Figure 1 above is intended to depict both on-grade and above-grade installations and is equally applicable to flexibly-mounted washer-extractors, as well as to rigid models installed either directly on a floor slab or on a foundation poured integrally with the slab. Current machine data is available from Milnor® upon request. All data is subject to change without notice and may have changed since last printed. It is the sole responsibility of every potential owner to obtain written confirmation that any data furnished by Milnor® applies for the model(s) and serial number(s) of the specific machines.

— End of BIWUI02 —

Installation Tag Guidelines

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36021V5Z
42026V6Z

36021V7Z
42030V6Z

36026V5Z

36026V7Z



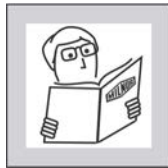
NOTICE: This information may apply to models in addition to those listed above. It applies to paper tags. It does not apply to the vinyl or metal safety placards, which must remain permanently affixed to the machine and replaced if no longer readable.

Paper tags on the machine provide installation guidelines and precautions. The tags can be tie-on or adhesive. You can remove tie-on tags and white, adhesive tags after installation. Yellow adhesive tags must remain on the machine.

The following entries explain the installation tags. Each entry includes: 1) the tag illustration, 2) the tag part number at the bottom of the tag, and 3) the meaning of the tag.

Display or Action

Explanation



Read the manuals before proceeding. This symbol appears on most tags. The machine ships with safety, operator, and routine maintenance guides for customer use. Milnor dealer manuals for installing, commissioning, and servicing the machine are also available from the Milnor Parts department.



B2TAG88005: This carefully built product was tested and inspected to meet Milnor performance and quality standards by (identification mark of tester).



B2TAG93013: This bearing housing was lubricated at the Milnor factory before shipment. (Only used on 36" V models. Not used on 42" V models.)

X



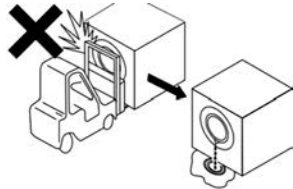
B2TAG94078: Do not forklift here; do not jack here; do not step here—whichever applies.



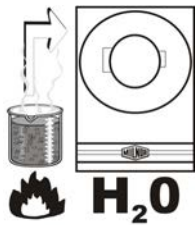
B2TAG94081: Motor must rotate in this direction. On single motor washer-extractors and centrifugal extractors, the drive motor must turn in this direction during draining and extraction. This tag is usually wrapped around a motor housing. If the motor turns in the opposite direction when the machine is first tested, the electrical hookup is incorrect and must be reversed as explained in the schematic manual.



B2TAG94097: The cylinder must rotate **counterclockwise** during draining and extraction (spin) when viewed from here (rear of machine). Otherwise, reverse the electric power connections, as explained in the schematic manual.



B2TAG94099: Do not strike the shell door when fork-lifting. This can cause the door to leak.



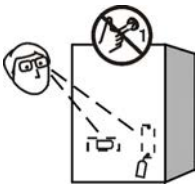
B2T2001013: Hot water connection.



B2T2001014: Cold water connection.



B2T2001015: Reuse (third) water connection. (Optional)



B2T2001028: Look for tags inside the machine. These tags may identify shipping restraints to be removed or components to be installed. Do not start the machine until these actions are completed.



B2T2002013: Do not start the machine until shipping restraints are removed. This tag will appear on the outside of the machine to alert you to the presence of internal shipping restraints. A tag will also appear on the restraint to help identify it. Most, but not all shipping restraints display the color red. Some shipping restraints are also safety stands. Do not discard these.



B2T2003001: Hold the side of the connection stationary with a wrench as you tighten the connection with another wrench. Otherwise, you may twist components, such as valves, damaging them.



B2T2004027: Steam connection. (Optional)

End of document: BNWOAI01

BIUUUI02RQ (Published) Book specs- Dates: 20160713 / 20160713 / 20160713 Lang: ENG01 Applic: RQV 36021C4E

Tag Guidelines for the Models Listed Below

36021V5J 36021V7J 36026V5J 36026V7J 36026V7W 42026V6J 42026V6W
42030V6J 36021C4E

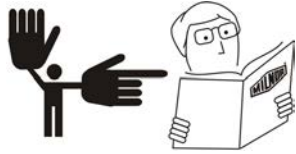
Notice 1: This information may apply to models in addition to those listed above. It applies to paper tags. It does not apply to the vinyl or metal safety placards, which must remain permanently affixed to the machine and replaced if no longer readable.

Paper tags on the machine provide installation guidelines and precautions. The tags can be tie-on or adhesive. You can remove tie-on tags and white, adhesive tags after installation. Yellow adhesive tags must remain on the machine.

Tag Guidelines for the Models Listed Below

The following entries explain the installation tags. Each entry includes: 1) the tag illustration, 2) the tag part number displayed at the bottom of the tag, and 3) the meaning of the tag.

Display or Action



Explanation

Read the manuals before proceeding. This symbol appears on most tags. The machine ships with safety, operator, and routine maintenance guides for customer use. Milnor dealer manuals for installing, servicing, and commissioning this machine are also available from the Milnor Parts department.



B2TAG88005: This carefully built product was tested and inspected to meet Milnor® performance and quality standards by (identification mark of tester).



B2TAG93013: This bearing housing was lubricated at the Milnor factory before shipment. (This tag not used on 42" V models.)



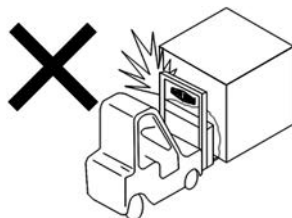
B2TAG94078: Do not forklift here; do not jack here; do not step here—whichever applies.



B2TAG94081: Motor must rotate in this direction. On single motor washer-extractors and centrifugal extractors, the drive motor must turn in this direction during draining and extraction. This tag is usually wrapped around a motor housing. If the motor turns in the opposite direction when the machine is first tested, the electrical hookup is incorrect and must be reversed as explained in the schematic manual.



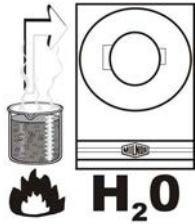
B2TAG94097: The cylinder must rotate **counterclockwise** during draining and extraction (spin) when viewed from here (rear of machine). Otherwise, reverse the electric power connections, as explained in the schematic manual.



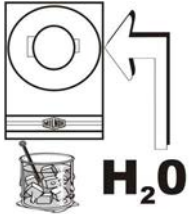
B2TAG94118: Do not strike shipping container during forklifting. Fragile components inside.

Display or Action

Explanation



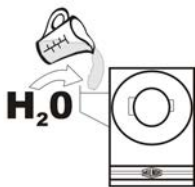
B2T2001013: Hot water connection.



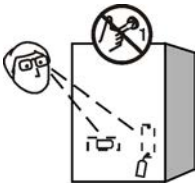
B2T2001014: Cold water connection.



B2T2001015: Reuse (third) water connection.



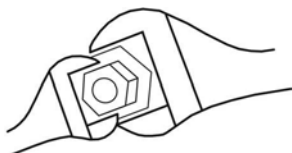
B2T2001016: Flushing water connection. This is the water that goes into the supply compartment or pumped chemical manifold to flush chemicals into the machine.



B2T2001028: Look for tags inside the machine. These tags may identify shipping restraints to be removed or components to be installed. Do not start the machine until these actions are completed.



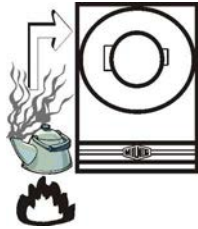
B2T2002013: Do not start the machine until shipping restraints are removed. This tag will appear on the outside of the machine to alert you to the presence of internal shipping restraints. A tag will also appear on the restraint to help identify it. Most, but not all shipping restraints display the color red. Some shipping restraints are also safety stands. Do not discard these.



B2T2003001: Hold the side of the connection stationary with a wrench as you tighten the connection with another wrench. Otherwise, you may twist components, such as valves, damaging them.

Tag Guidelines for the Models Listed Below

Display or Action



Explanation

B2T2004027: Steam connection (optional)



B2T2006012: Retain the motor mount spring adjustment sleeve provided with certain machine models. This sleeve is used to increase drive belt tension as the belt wears. Instructions are provided in the maintenance guide.

— End of BIUUUI02 —

Prevent Damage from Chemical Supplies and Chemical Systems

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All Milnor® washer-extractors and CBW® tunnel washers use stainless steel with the AISI 304 specification. This material gives good performance when chemical supplies are correctly applied. If chemical supplies are incorrectly applied, this material can be damaged. The damage can be very bad and it can occur quickly.

Chemical supply companies usually:

- supply chemical pump systems that put the supplies in the machine,
- connect the chemical pump system to the machine,
- write wash formulas that control the chemical concentrations.

The company that does these procedures must make sure that these procedures do not cause damage. **Pellerin Milnor Corporation accepts no responsibility for chemical damage to the machines it makes or to the goods in a machine.**

1. How Chemical Supplies Can Cause Damage

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Dangerous Chemical Supplies and Wash Formulas

Some examples that can cause damage are:

- a very high concentration of chlorine bleach,
- a mixture of acid sour and hypo chlorite,
- chemical supplies (examples: chlorine bleach, hydrofluosilicic acid) that stay on the stainless steel because they are not quickly flushed with water.

The book “Textile Laundering Technology” by Charles L. Riggs gives data about correct chemical supplies and formulas.

Incorrect Configuration or Connection of Equipment

Many chemical systems:

- do not prevent a vacuum in the chemical tube (for example, with a vacuum breaker) when the pump is off,
- do not prevent flow (for example, with a valve) where the chemical tube goes in the machine.

Damage will occur if a chemical supply can go in the machine when the chemical system is off. Some configurations of components can let the chemical supplies go in the machine by a siphon ([Figure 1. Incorrect Configurations That Let the Chemical Supply Go In the Machine by a Siphon](#)). Some can let chemical supplies go in the machine by gravity ([Figure 2. Incorrect Configurations That Let the Chemical Supply Go In the Machine by Gravity](#)).

Figure 1. Incorrect Configurations That Let the Chemical Supply Go In the Machine by a Siphon

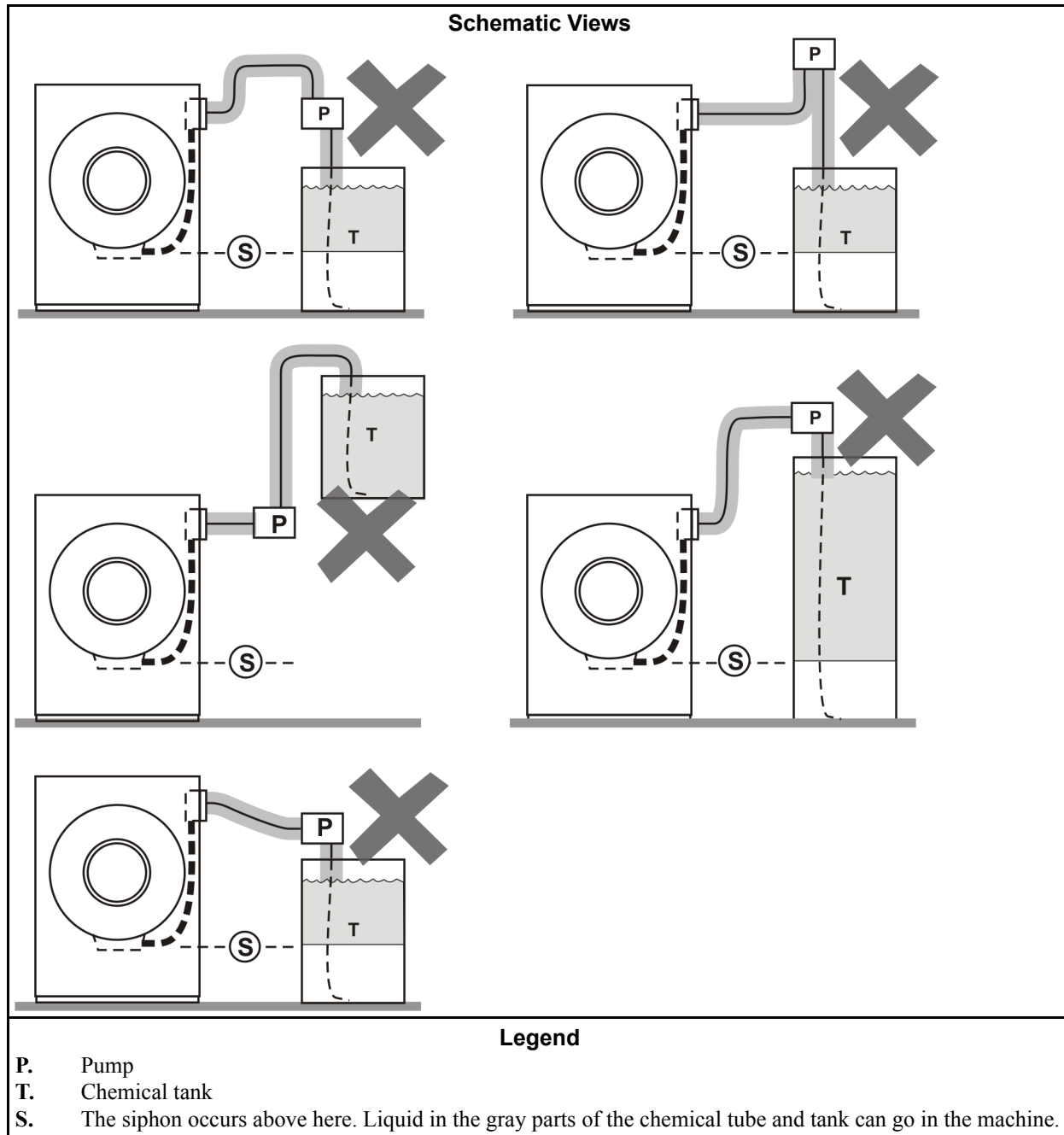
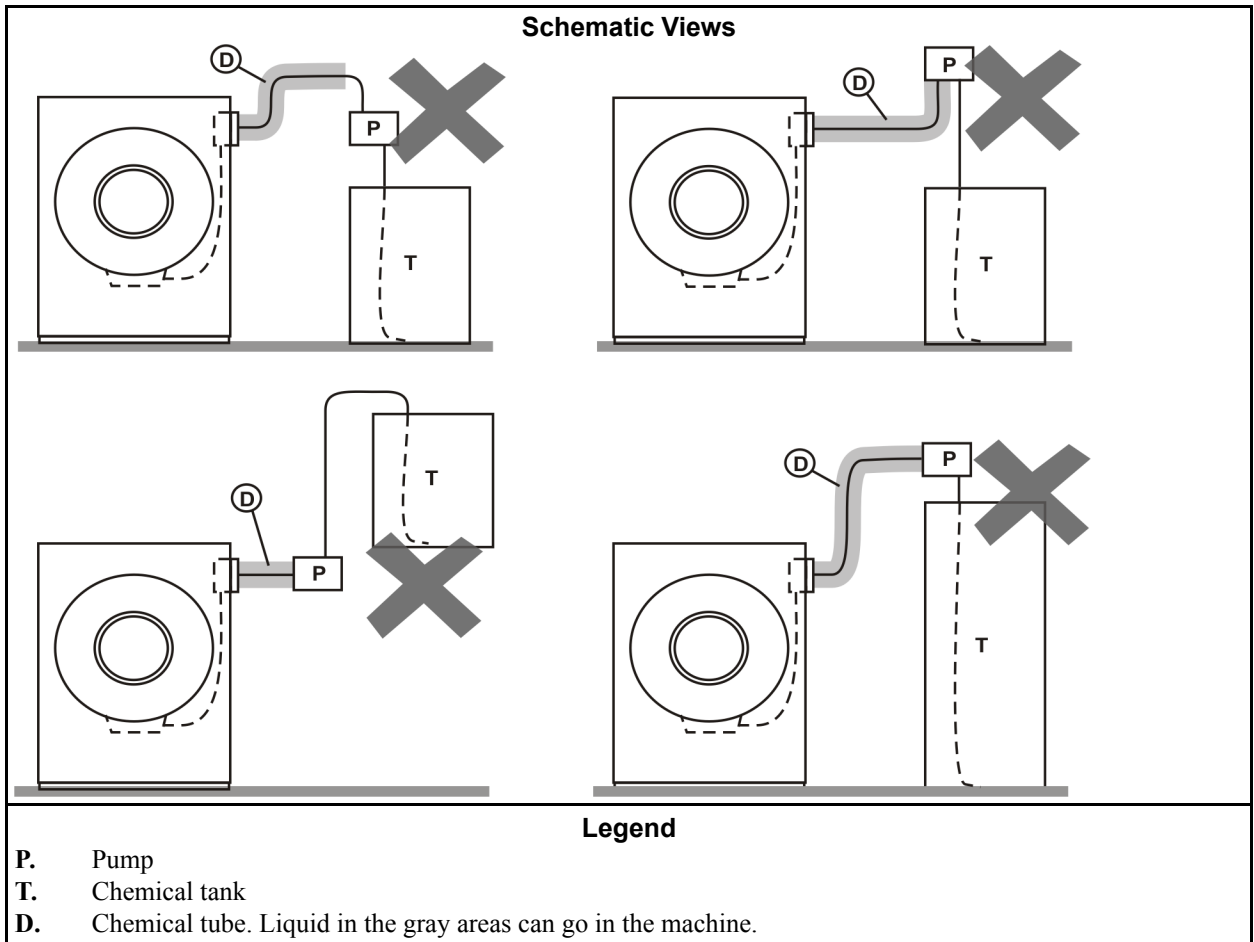


Figure 2. Incorrect Configurations That Let the Chemical Supply Go In the Machine by Gravity



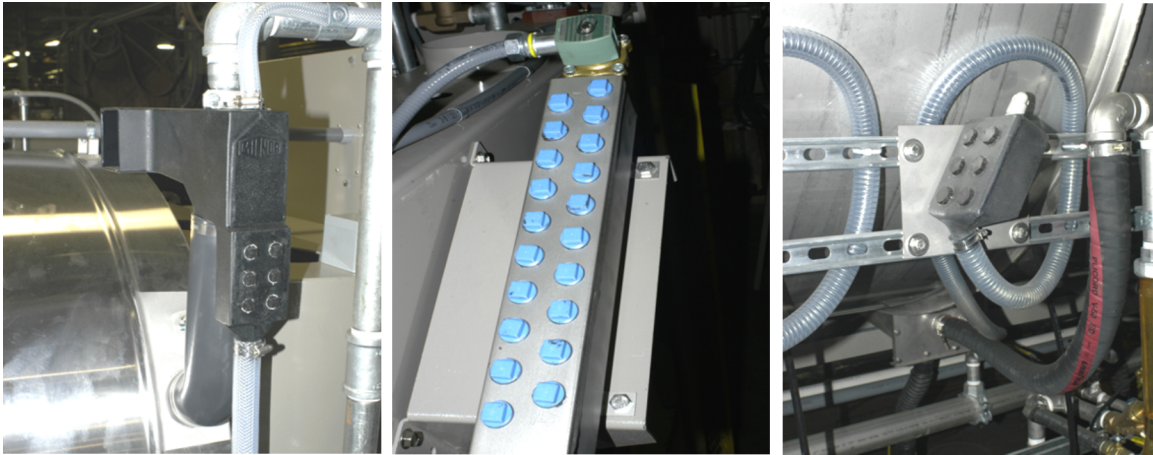
2. Equipment and Procedures That Can Prevent Damage

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Use the chemical manifold supplied.

There is a manifold on the machine to attach chemical tubes from a chemical pump system. The manifold has a source of water to flush the chemical supplies with water.

Figure 3. Examples of Manifolds for Chemical Tubes. Your equipment can look different.



Close the line.

If the pump does not always close the line when it is off, use a shutoff valve to do this.

Do not let a vacuum occur.

Supply a vacuum breaker in the chemical line that is higher than the full level of the tank.

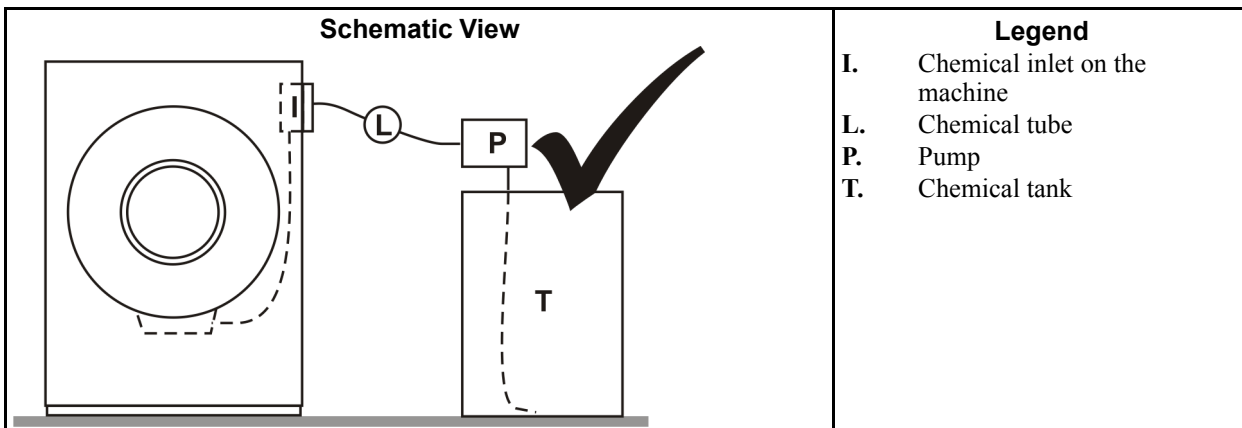
Flush the chemical tube with water.

If the liquid that stays in the tube between the pump and the machine can flow in the machine, flush the tube with water after the pump stops.

Put the chemical tube fully below the inlet.

It is also necessary that there is no pressure in the chemical tube or tank when the system is off.

Figure 4. A Configuration that Prevents Flow in the Machine When the Pump is Off (if the chemical tube and tank have no pressure)



Prevent leaks.

When you do maintenance on the chemical pump system:

- Use the correct components.
- Make sure that all connections are the correct fit.
- Make sure that all connections are tight.

End of document: BNUUUR02

Safety Placard Use and Placement

36021CPE, NSP, V5J, **V5Z** & 36026V5J, **V5Z**

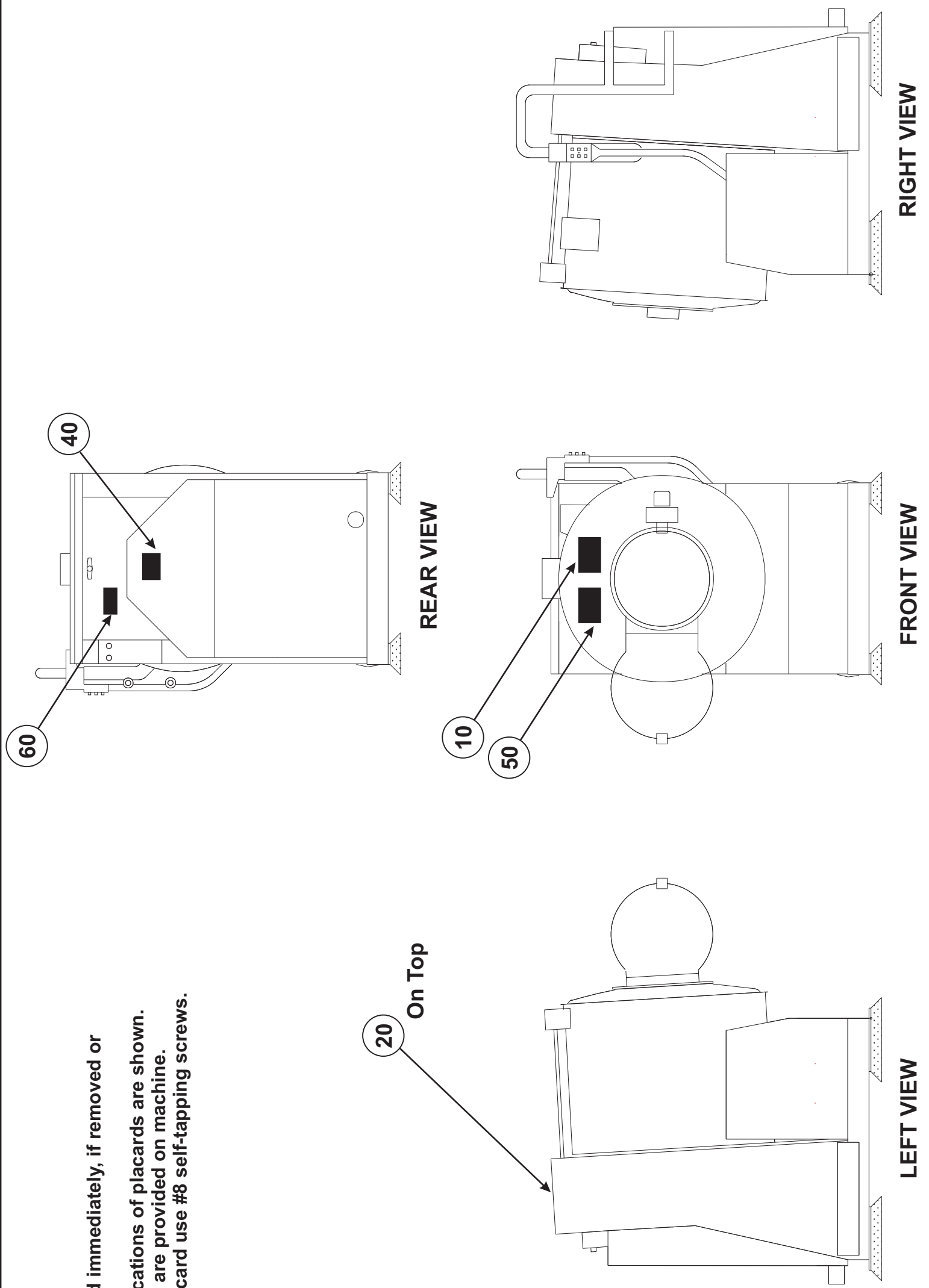
BMP020109/2014356B
(Sheet 1 of 2)



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

Litho in U.S.A.

- Notes:**
1. Replace placard immediately, if removed or unreadable.
 2. Approximate locations of placards are shown. Mounting holes are provided on machine. If aluminum placard use #8 self-tapping screws.





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Parts List—Safety Placard Placement

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-----				
none				
-----COMPONENTS-----				
all	10	01 10635A	NPLT:SHELL FRONT RIDGID-TCATA	
all	20	01 10375B	NPLT:ELEC HAZARD SMALL-TCATA	
all	40	01 10689A	NPLT:BELT HAZARD SM TCATA	
all	50	01 10699A	NPLT:SERV HZRD-PLYEST-TCATA	
all	60	01 10377A	NPLT:ELEC HAZARD LG-TCATA	



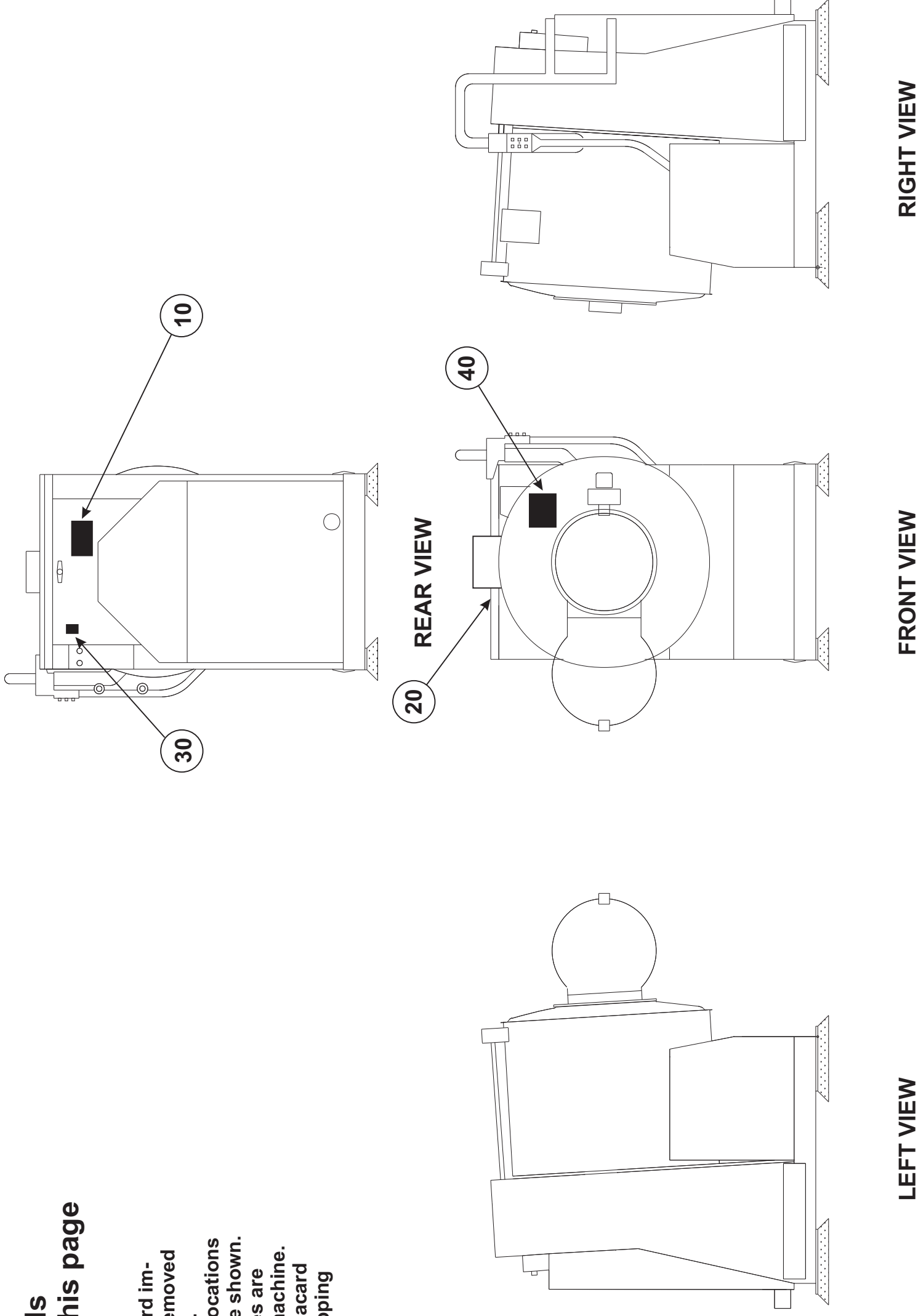
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Litho in U.S.A.

ISO Placards shown on this page

Notes:

1. Replace placard immediately, if removed or unreadable.
2. Approximate locations of placards are shown. Mounting holes are provided on machine. If aluminum placard use #8 self-tapping screws.





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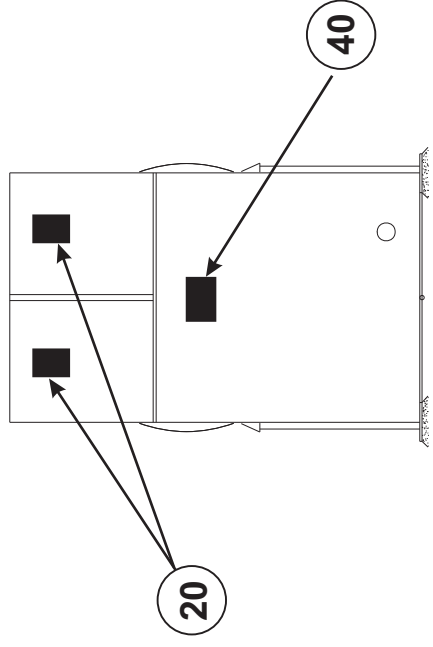
Used In	Item	Part Number	Description	Comments
-----ASSEMBLIES-----				
none				
-----COMPONENTS-----				
all	10	01 10632X	NPLT:WE1 RIGID WARNINGS FR	
all	20	01 10375	NPLTE:"WARNING" 2X2	
all	30	01 10377	NPLTE:"WARNING" 4X4	
all	40	01 10632Y	NPLT:WE1 RIGID WARNINGS POLY	



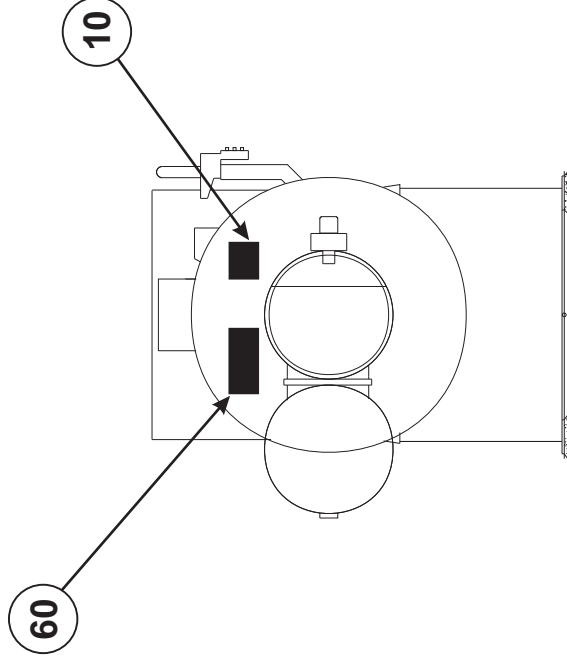
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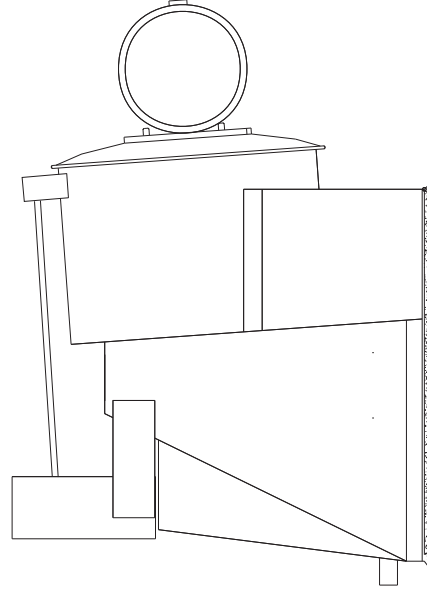
- Notes:**
1. Replace placard immediately, if removed or unreadable.
 2. Approximate locations of placards are shown. Mounting holes are provided on machine. Use #8 self-tapping screws.



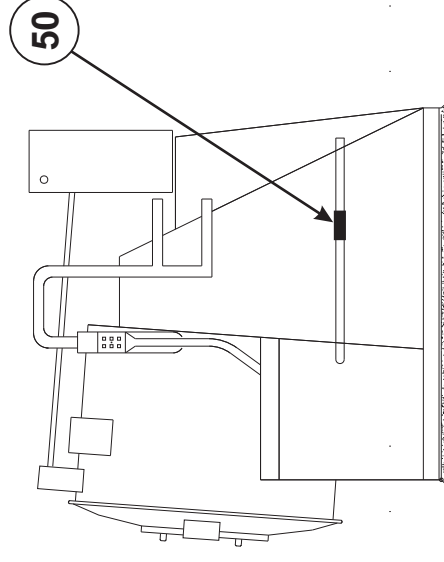
REAR VIEW



FRONT VIEW



LEFT VIEW



RIGHT VIEW



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Parts List—Safety Placard Placement

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Used In	Item	Part Number	Description	Comments
-----ASSEMBLIES-----				
-----COMPONENTS-----				
all	10	01 10635A	NPLT:SHELL FRONT RIDGID-TCATA	
all	20	01 10377A	NPLT:ELEC HAZARD LG-TCATA	
all	40	01 10689A	NPLT:BELT HAZARD SM TCATA	
all	50	01 10685A	NPLT:BURN HAZARD WARN-TCATA	
all	60	01 10699A	NPLT:SERV HZRD-PLYEST-TCATA	



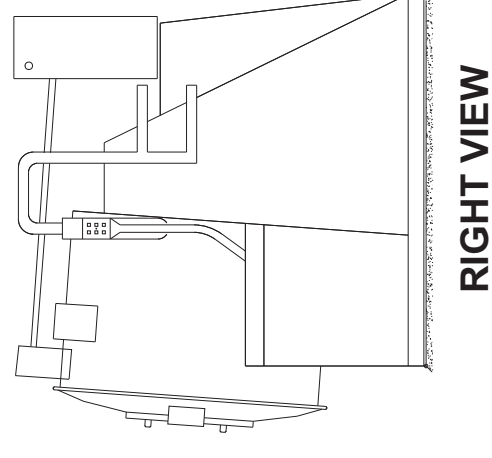
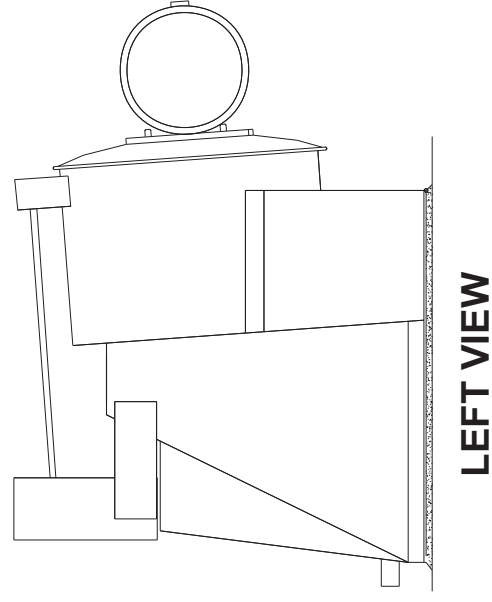
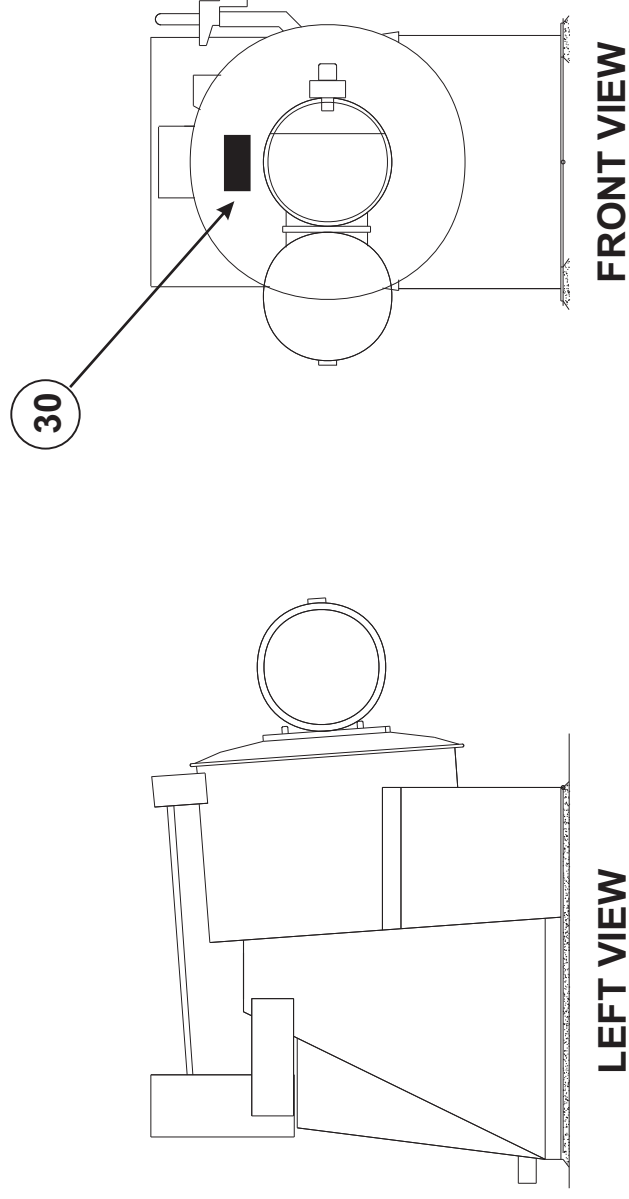
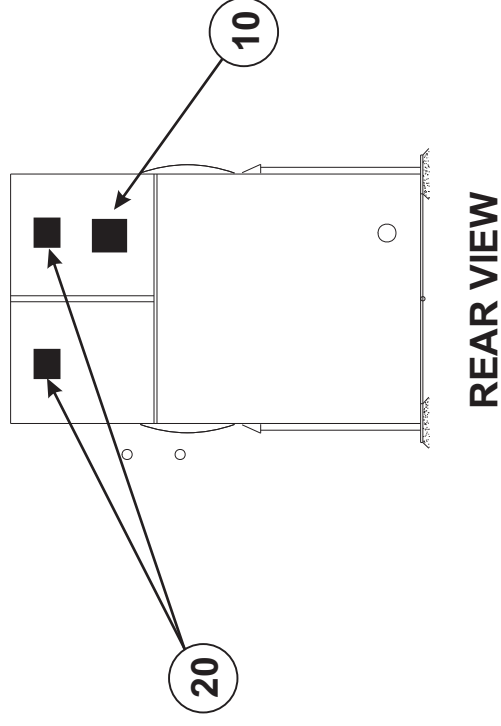
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P. O. Box 400, Kenner, LA 70063-0400

Litho in U.S.A.

ISO Placards shown on this page

Notes:

1. Replace placard immediately, if removed or unreadable.
2. Approximate locations of placards are shown. If Aluminum Placard Mounting holes are provided on machine. Use #8 self-tapping screws.





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Parts List—Safety Placard Placement

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-----				
-----COMPONENTS-----				
all	10	01 10632X	NPLT:WE1 RIGID WARNINGS FR	
all	20	01 10377	NPLTE:"WARNING" 4X4	
all	30	01 10632Y	NPLT:WE1 RIGID WARNINGS POLY	

Service and Maintenance

1

Torque Requirements for Fasteners



This document uses Simplified Technical English. Learn more at <http://www.asd-ste100.org>.

The document about the assembly gives the torque requirements for other fasteners. **If fastener torque specifications or threadlocker requirements in an assembly document are different from this document, use the assembly document.**

Figure 1: The Bolts in Milnor® Equipment

The Marks on Bolt Heads	Legend
	<p>A. SAE Grades 1 and 2, ASTM A307, and stainless steel</p> <p>B. Grade BC, ASTM A354</p> <p>C. SAE Grade 5, ASTM A449</p> <p>D. SAE Grade 8 and ASTM A354 BD</p>

1. Torque Values

These tables give the standard dimension, grade, threadlocker, and torque requirements for fasteners frequently used on Milnor® equipment.

Note 1: Data from the Pellerin Milnor® Corporation “Bolt Torque Specification” (bolt_torque_milnor.xls/2002096).

1.1. Fasteners Made of Carbon Steel

1.1.1. Without a Threadlocker

Table 1: Torque Values for Standard Fasteners with Maximum 5/16-inch Diameters and No Lubricant

Dimension	The Grade of the Bolt							
	Grade 2		Grade 5		Grade 8		Grade BC	
	Pound-Inches	N-m	Pound-Inches	N-m	Pound-Inches	N-m	Pound-Inches	N-m
1/4 x 20	66	7	101	11	143	16	126	14
1/4 x 28	76	9	116	13	163	18	--	--
5/16 x 18	136	15	209	24	295	33	258	29
5/16 x 24	150	17	232	26	325	37	--	--

Torque Requirements for Fasteners

Table 2: Torque Values for Standard Fasteners Larger Than 5/16-inch Diameters and No Lubricant

Dimension	The Grade of the Bolt							
	Grade 2		Grade 5		Grade 8		Grade BC	
	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m
3/8 x 16	20	27	31	42	44	59	38	52
3/8 x 24	23	31	35	47	50	68	--	--
7/16 x 14	32	43	49	66	70	95	61	83
7/16 x 20	36	49	55	75	78	105	--	--
1/2 x 13	49	66	75	102	107	145	93	126
1/2 x 20	55	75	85	115	120	163	--	--
9/16 x 12	70	95	109	148	154	209	134	182
9/16 x 18	78	106	121	164	171	232	--	--
5/8 x 11	97	131	150	203	212	287	186	252
5/8 x 18	110	149	170	231	240	325	--	--
3/4 x 10	172	233	266	361	376	510	329	446
3/4 x 16	192	261	297	403	420	569	--	--
7/8 x 9	167	226	429	582	606	821	531	719
7/8 x 14	184	249	473	641	668	906	--	--
1 x 8	250	339	644	873	909	1232	796	1079
1 x 12	274	371	704	954	994	1348	--	--
1 x 14	281	381	723	980	1020	1383	--	--
1 1/8 x 7	354	480	794	1077	1287	1745	1126	1527
1 1/8 x 12	397	538	891	1208	1444	1958	--	--
1 1/4 x 7	500	678	1120	1519	1817	2464	1590	2155
1 1/4 x 12	553	750	1241	1682	2012	2728	--	--
1 3/8 x 6	655	888	1469	1992	2382	3230	2085	2827
1 3/8 x 12	746	1011	1672	2267	2712	3677	--	--
1 1/2 x 6	869	1178	1949	2642	3161	4286	2767	3751
1 1/2 x 12	979	1327	2194	2974	3557	4822	--	--

Table 3: Torque Values for Plated Fasteners with Maximum 5/16-inch Diameters and No Lubricant

Dimension	The Grade of the Bolt							
	Grade 2		Grade 5		Grade 8		Grade BC	
	Pound-Inches	N-m	Pound-Inches	N-m	Pound-Inches	N-m	Pound-Inches	N-m
1/4 x 20	49	6	76	9	107	12	95	11
1/4 x 28	56	6	88	10	122	14	--	--
5/16 x 18	102	12	156	18	222	25	193	22
5/16 x 24	113	13	174	20	245	28	--	--

Table 4: Torque Values for Plated Fasteners Larger Than 5/16-inch Diameters and No Lubricant

Dimension	The Grade of the Bolt							
	Grade 2		Grade 5		Grade 8		Grade BC	
	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m
3/8 x 16	15	20	23	31	33	44	29	38
3/8 x 24	17	23	26	35	37	49	--	--
7/16 x 14	24	32	37	50	52	71	46	61
7/16 x 20	27	36	41	55	58	78	--	--
1/2 x 13	37	49	56	76	80	106	70	93
1/2 x 20	41	55	64	85	90	120	--	--
9/16 x 12	53	70	81	110	115	153	101	134
9/16 x 18	59	79	91	122	128	174	--	--
5/8 x 11	73	97	113	150	159	212	139	186
5/8 x 18	83	110	127	172	180	240	--	--
3/4 x 10	129	173	200	266	282	376	246	329
3/4 x 16	144	192	223	297	315	420	--	--
7/8 x 9	125	166	322	430	455	606	398	531
7/8 x 14	138	184	355	474	501	668	--	--
1 x 8	188	250	483	644	682	909	597	796
1 x 12	205	274	528	716	746	995	--	--
1 x 14	210	280	542	735	765	1037	--	--
1 1/8 x 7	266	354	595	807	966	1288	845	1126
1 1/8 x 12	298	404	668	890	1083	1444	--	--
1 1/4 x 7	375	500	840	1120	1363	1817	1192	1590
1 1/4 x 12	415	553	930	1261	1509	2013	--	--
1 3/8 x 6	491	655	1102	1470	1787	2382	1564	2085
1 3/8 x 12	559	758	1254	1672	2034	2712	--	--
1 1/2 x 6	652	870	1462	1982	2371	3161	2075	2767
1 1/2 x 12	733	994	1645	2194	2668	3557	--	--

1.1.2. With a Threadlocker

Table 5: Threadlocker by the Diameter of the Bolt (see Note 2)

LocTite Product	Dimension			
	1/4-inch	1/4- to 5/8-inch	5/8- to 7/8-inch	1-inch +
LocTite 222	OK			
LocTite 242		OK		
LocTite 262			OK	
LocTite 272			High temperature	
LocTite 277				OK

Note 2: The acceptable bolt size ranges for various LocTite® threadlocking products is the LocTite manufacturer's **general** recommendation. Specific applications sometime require that a LocTite product is applied to a bolt size outside the ranges shown here. For example, Milnor specifies LocTite 242 for use on certain 1" bolt applications and has confirmed this usage with the LocTite manufacturer. You may see variances such as this in the documentation for specific machine assemblies.

Torque Requirements for Fasteners

Table 6: Torque Values if You Apply LocTite 222

Dimension	The Grade of the Bolt							
	Grade 2		Grade 5		Grade 8		Grade BC	
	Pound-inches	N-m	Pound-inches	N-m	Pound-inches	N-m	Pound-inches	N-m
1/4 x 20	60	7	96	11	132	15	108	12
1/4 x 28	72	8	108	12	144	16	--	--

Table 7: Torque Values if You Apply LocTite 242

Dimension	The Grade of the Bolt							
	Grade 2		Grade 5		Grade 8		Grade BC	
	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m
5/16 x 18	11	15	17	23	25	34	22	30
5/16 x 24	13	18	19	26	27	37	27	37
3/8 x 16	20	27	31	42	44	60	38	52
3/8 x 24	23	31	35	47	50	68	--	--
7/16 x 14	32	43	49	66	70	95	61	83
7/16 x 20	36	49	55	75	78	106	--	--
1/2 x 13	49	66	75	102	107	145	93	126
1/2 x 20	55	75	85	115	120	163	--	--
9/16 x 12	70	95	109	148	154	209	134	182
9/16 x 18	78	106	121	164	171	232	--	--
5/8 x 11	97	132	150	203	212	287	186	252
5/8 x 18	110	149	170	230	240	325	--	--

Table 8: Torque Values if You Apply LocTite 262

Dimension	The Grade of the Bolt							
	Grade 2		Grade 5		Grade 8		Grade BC	
	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m
3/4 x 10	155	210	240	325	338	458	296	401
3/4 x 16	173	235	267	362	378	512	--	--
7/8 x 9	150	203	386	523	546	740	477	647
7/8 x 14	165	224	426	578	601	815	--	--

Table 9: Torque Values if You Apply LocTite 272 (High-Temperature)

Dimension	The Grade of the Bolt							
	Grade 2		Grade 5		Grade 8		Grade BC	
	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m
1 x 8	350	475	901	1222	1272	1725	1114	1510
1 x 12	383	519	986	1337	1392	1887	--	--
1 x 14	393	533	1012	1372	1428	1936	--	--
1-1/8 x 7	496	672	1111	1506	1802	2443	1577	2138
1-1/8 x 12	556	754	1247	1691	2022	2741	--	--
1-1/4 x 7	700	949	1568	2126	2544	3449	2226	3018
1-1/4 x 12	774	1049	1737	2355	2816	3818	--	--
1-3/8 x 6	917	1243	2056	2788	3335	4522	2919	3958
1-3/8 x 12	1044	1415	2341	3174	3797	5148	--	--
1-1/2 x 6	1217	1650	2729	3700	4426	6001	3873	5251
1-1/2 x 12	1369	1856	3071	4164	4980	6752	--	--

Table 10: Torque Values if You Apply LocTite 277

Dimension	The Grade of the Bolt							
	Grade 2		Grade 5		Grade 8		Grade BC	
	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m
1 x 8	325	441	837	1135	1181	1601	1034	1402
1 x 12	356	483	916	1242	1293	1753	--	--
1 x 14	365	495	939	1273	1326	1798	--	--
1-1/8 x 7	461	625	1032	1399	1674	2270	1464	1985
1-1/8 x 12	516	700	1158	1570	1877	2545	--	--
1-1/4 x 7	650	881	1456	1974	2362	3202	2067	2802
1-1/4 x 12	719	975	1613	2187	2615	3545	--	--
1-3/8 x 6	851	1154	1909	2588	3097	4199	2710	3674
1-3/8 x 12	970	1315	2174	2948	3526	4781	--	--
1-1/2 x 6	1130	1532	2534	3436	4110	5572	3597	4877
1-1/2 x 12	1271	1723	2852	3867	4624	6269	--	--

1.2. Stainless Steel Fasteners

Table 11: Torque Values for Stainless Steel Fasteners 5/16-inch and Smaller

Dimension	316 Stainless		18-8 Stainless		18-8 Stainless with Loctite 767	
	Pound-Inches	N-m	Pound-Inches	N-m	Pound-Inches	N-m
1/4 x 20	79	9	76	9	45	5
1/4 x 28	100	11	94	11	56	6
5/16 x 18	138	16	132	15	79	9
5/16 x 24	148	17	142	16	85	10

Table 12: Torque Values for Stainless Steel Fasteners Larger Than 5/16-inch

Dimension	316 Stainless		18-8 Stainless		18-8 Stainless with Loctite 767	
	Pound-feet	N-m	Pound-feet	N-m	Pound-feet	N-m
3/8 x 16	21	28	20	27	12	16
3/8 x 24	23	31	22	29	13	18
7/16 x 14	33	44	31	42	19	25
7/16 x 20	35	47	33	45	20	27
1/2 x 13	45	61	43	58	26	35
1/2 x 20	47	64	45	61	27	37
9/16 x 12	59	81	57	77	34	46
9/16 x 18	66	89	63	85	38	51
5/8 x 11	97	131	93	125	56	75
5/8 x 18	108	150	104	141	62	84
3/4 x 10	132	179	128	173	77	104
3/4 x 16	130	176	124	168	75	101
7/8 x 9	203	275	194	263	116	158
7/8 x 14	202	273	193	262	116	157
1 x 8	300	406	287	389	172	233
1 x 14	271	367	259	351	156	211
1-1/8 x 7	432	586	413	560	248	336
1-1/8 x 12	408	553	390	529	234	317
1-1/4 x 7	546	740	523	709	314	425
1-1/4 x 12	504	683	480	651	288	390
1-1/2 x 6	930	1261	888	1204	533	722
1-1/2 x 12	732	992	703	953	422	572

2. Preparation



WARNING 2: Fire Hazard—Some solvents and primers are flammable.

- Use threadlocker and primers with sufficient airflow.
 - Do not use flammable material near ignition sources.
1. Clean all threads with a wire brush or a different tool.
 2. Remove the grease from the fasteners and the mating threads with solvent. Make the parts dry.

Note 3: Loctite 7649 Primer™ or standard solvents will remove grease from parts.

3. Apply a spray of Loctite 7649 Primer™ or equal on the fasteners and the mating threads. Let the primer dry for one minute minimum.

3. How to Apply a Threadlocker

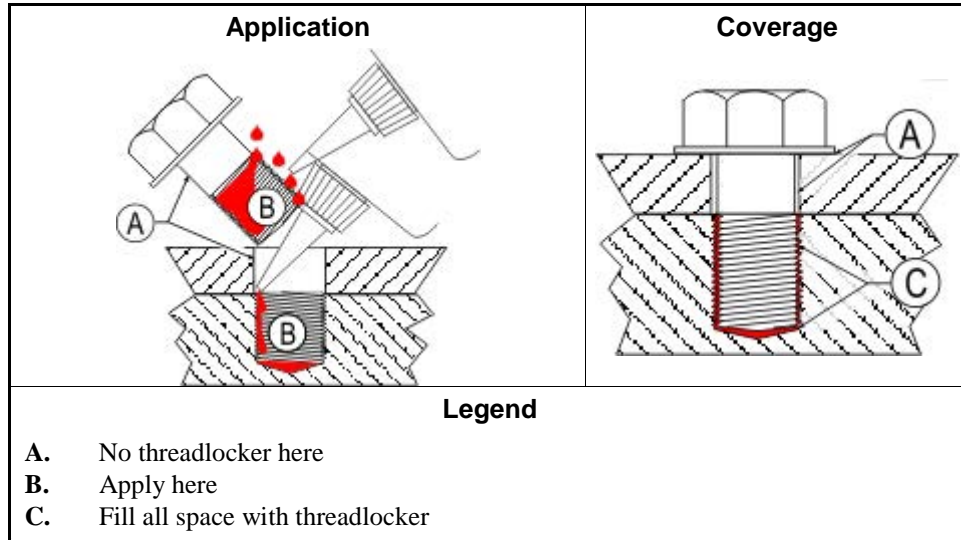


CAUTION 3: Malfunction Hazard—Heat, vibration, or mechanical shocks can let the fasteners loosen if you do not apply the threadlocker correctly. Loose fasteners can cause malfunctions of the equipment.

- Read the threadlocker manufacturer's instructions and warnings. Obey these instructions.

Apply the threadlocker only to the areas where the fastener threads and the mating threads engage.

Figure 2: Blind Hole



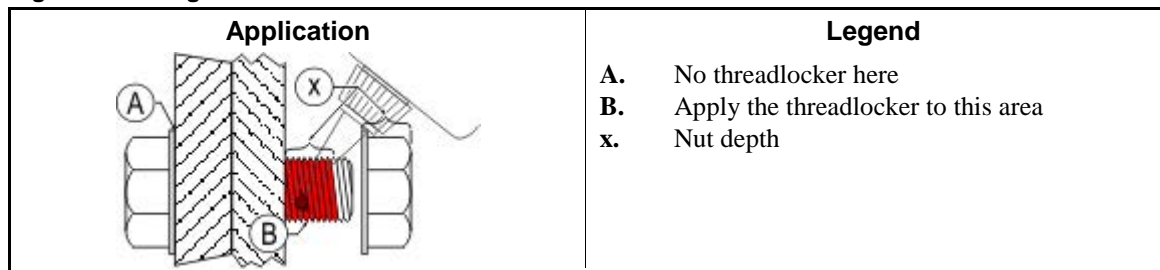
3.1. Blind Holes

1. Apply the threadlocker down the threads to the bottom of the hole.
2. Apply the threadlocker to the bolt.
3. Tighten the bolt to the value shown in the correct table ([Table 5](#) to [Table 11](#)).

3.2. Through Holes

1. Put the bolt through the assembly.
2. Apply the threadlocker only to the bolt thread area that will engage the nut.
3. Tighten the bolt to the value shown in the correct table ([Table 5](#) to [Table 11](#)).

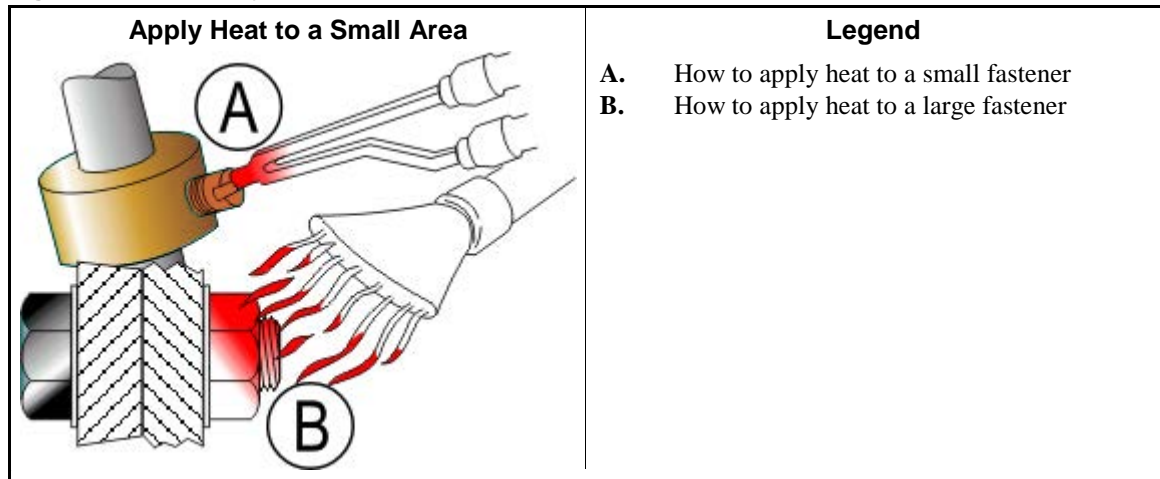
Figure 3: Through Hole



- 3.3. Disassembly**—For high-strength threadlocker, apply heat for five minutes. Disassemble with hand tools while the parts are hot.

For low-strength and moderate-strength threadlocker, disassemble with hand tools.

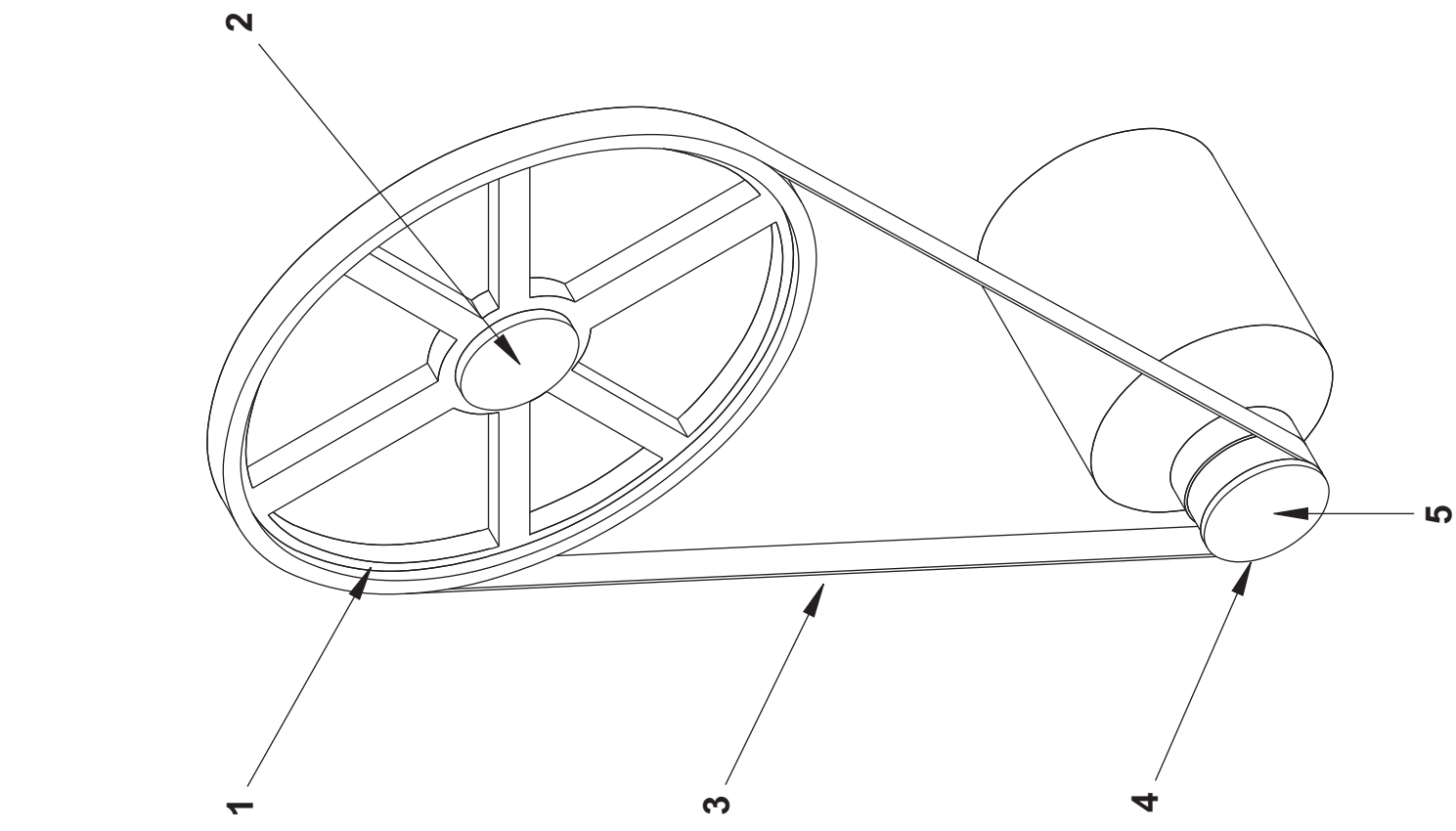
Figure 4: Disassembly



— End of BIUUM04 —

Drive Assemblies

2



Parts List— Drive Chart

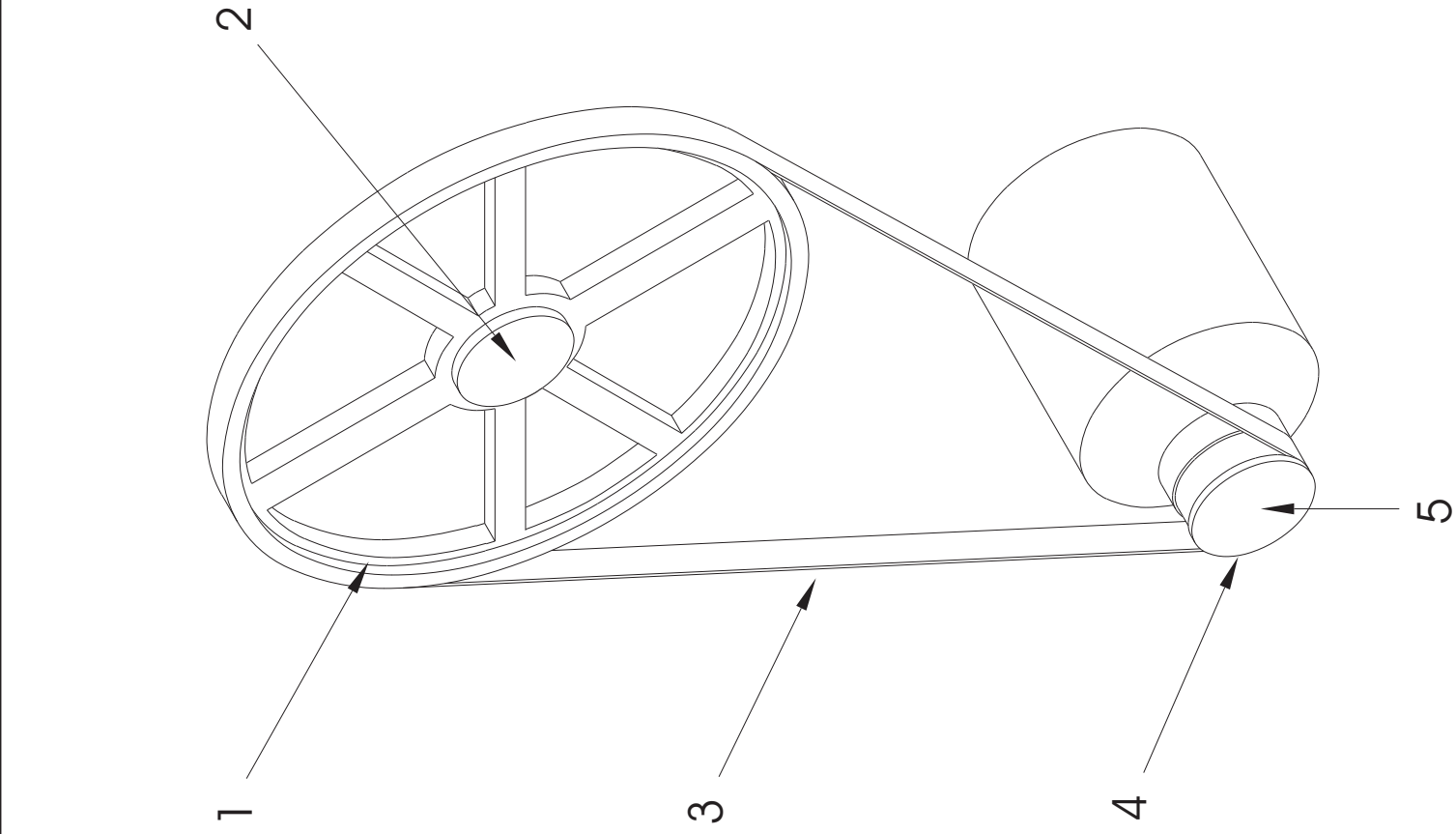
Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate the parts list to the illustration.

Used In	Item	Part Number	Description	Comments
-----ASSEMBLIES-----				
	A	D13 00949	*DRIVECHART=3621V5 5HP 6POLE	3621V5J / STARPLATE
	B	D13 00959	DRIVE=3626V5 50/60HZ 5HP6POLE	3626V5J / STARPLATE
-----COMPONENTS-----				
A	1	56250B2SF	VPUL 2B25.0 (SF) TYPE QD	
B	1	56250B3SF	VPUL 3B25.0 (SF) TYPE QD	
all	2	56Q1KSF	1+1/2" BUSH VPUL QD TYPE SF	
all	3	56VB095X	VBELT BX95 RAWEDGE COG	
A	4	56038B2SH	V-PUL 2B3.8/A3.4 (SH) TYPE QD	
B	4	56038B3SH	V-PUL 3A3.4/B3.8 (SH) TYPE QD	
all	5	56Q1GSH	1+3/8" BUSH VPUL QD TYPE SH	



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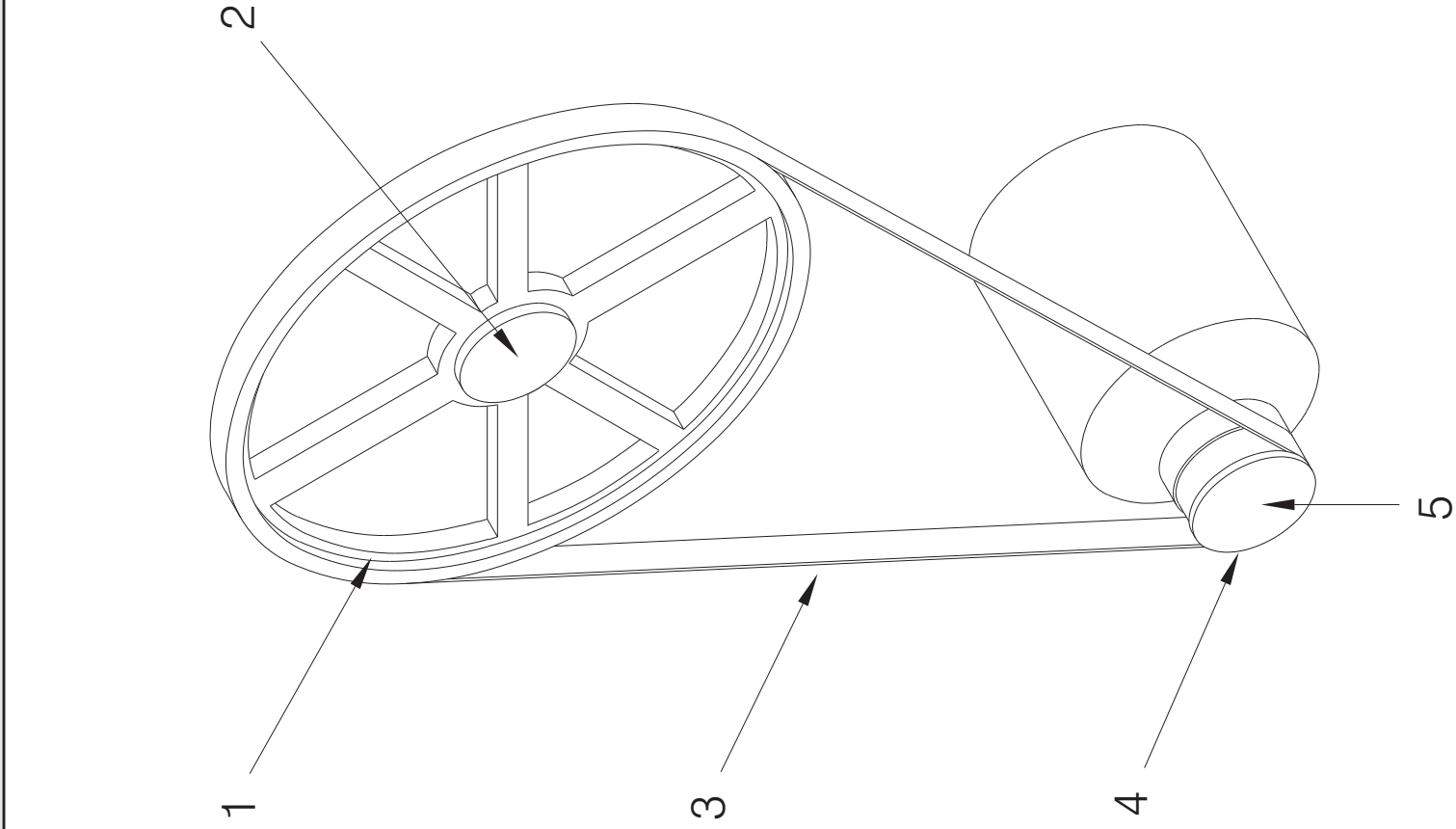
Parts List— Drive Chart
 Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate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

Used In	Item	Part Number	Description	Comments
			-----ASSEMBLIES-----	
A		D13 02960	95000Z DRIVECHART=3626V7 50/60HZ	36026V7J
B		D13 02970	DRIVECHART=3621V7 50/60HZ	36021V7J
			-----COMPONENTS-----	
all	1	56250B3SF	VPUL 3B25.0 (SF) TYPE QD	
all	2	56Q1PSF	1+3/4" BUSH VPUL QD TYPE SF	
all	3	56VB093X	VBELT BX93 RAWEDGE COG	3 REQUIRED
all	4	56030B3SH	VPUL 3B3.0/A2.6 3BK32SH (MTO)	
all	5	56Q1GSH	1+3/8" BUSH VPUL QD TYPE SH	



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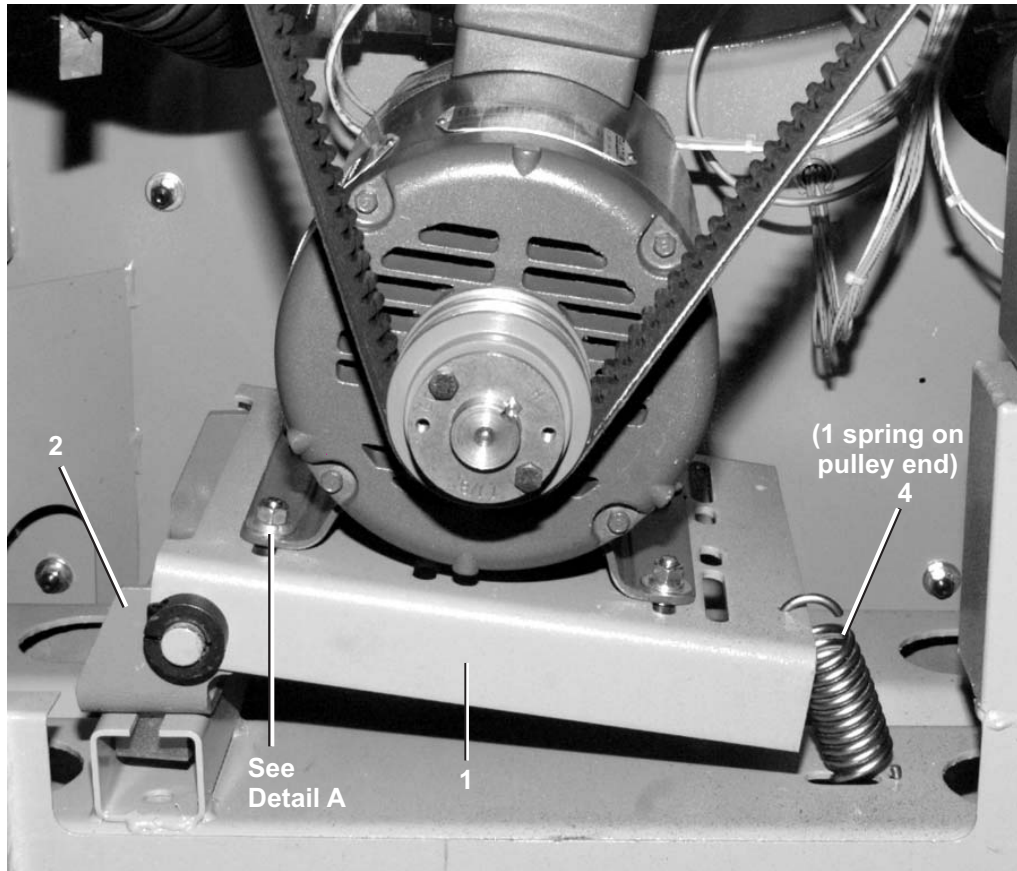


Parts List— Drive Chart
Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components relate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

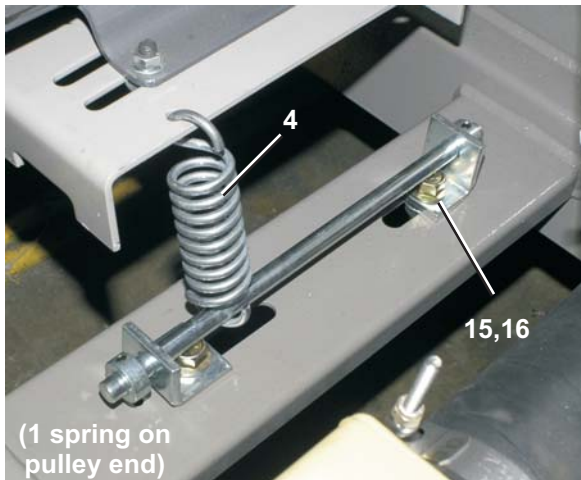
Used In	Item	Part Number	Description	Comments
			-----ASSEMBLIES-----	
A		D13 01960	95000 DRIVECHART=4226V6 60CYC	42026V6JZ
B		D13 03960	DRIVECHART=4230V6 60CYC	42030V6JZ
			-----COMPONENTS-----	
A	1	56250B3SF	VPUL 3B25.0 (SF) TYPE QD	3 GROOVE PULLEY
B	1	56250B4E	VPUL 4B25.0 (E) TYPE QD	4 GROOVE PULLEY
A	2	56Q1PSF	1+3/4" BUSH VPUL QD TYPE SF	
B	2	56Q1PE	1+3/4" BUSH VPUL QD TYPE E	
A	3	56VB093X	VBELT BX93 RAWEDGE COG	3 REQUIRED
B	3	56VB091XB4	VBAND 4RBX91 EACH=1 (WT.=4.5 LBS.)	4 BANDED BELTS
A	4	56030B3SH	VPUL 3B3.0/A2.6 3BK32SH (MTO)	
B	4	56034B4SD	VPUL 4B3.4 (SD) TYPE QD	
A	5	56Q1GSH	1+3/8" BUSH VPUL QD TYPE SH	
B	5	56Q1MSD	1+5/8" BUSH VPUL QD TYPE SD	

Motor Mount

30015, 30022, 36021, 36026, 42026, & 42030Vxx,Txx

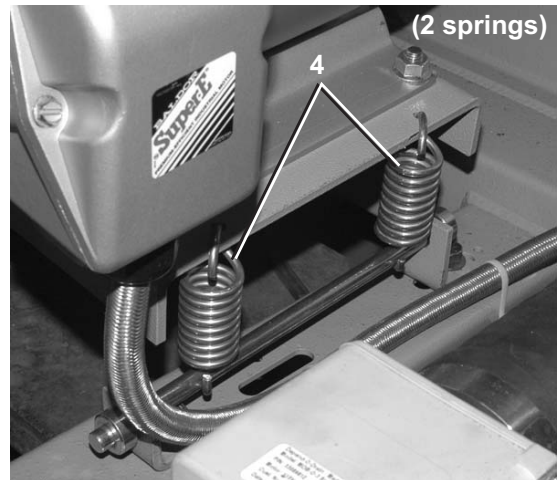


Hardware for all models; 30015V7J/Z, 30022V6J/Z Spring



(1 spring on pulley end)

36021V5J/Z, 36026V5J/Z Spring

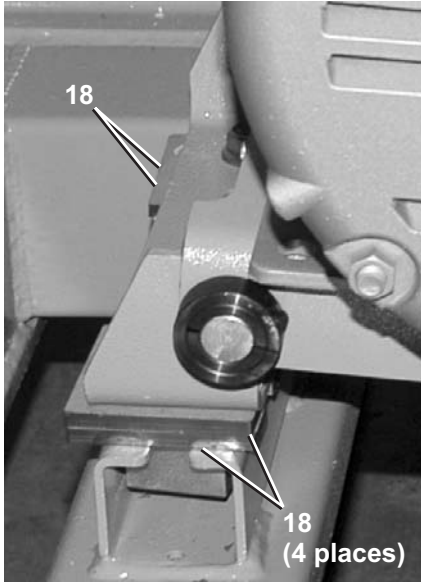


(2 springs)

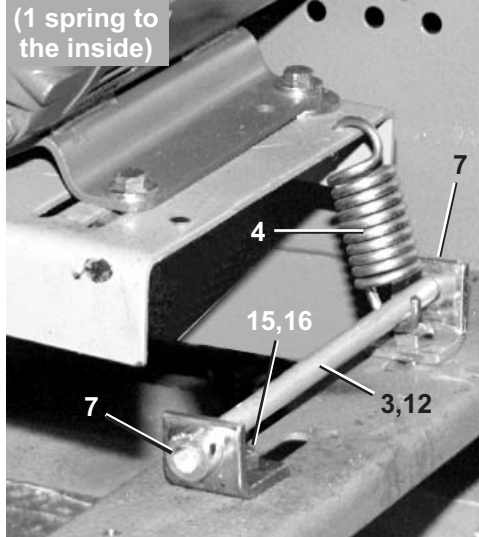
42030V6J/Z Springs

Motor Mount

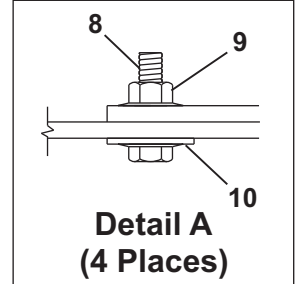
30015, 30022, 36021, 36026, 42026, & 42030Vxx,Txx



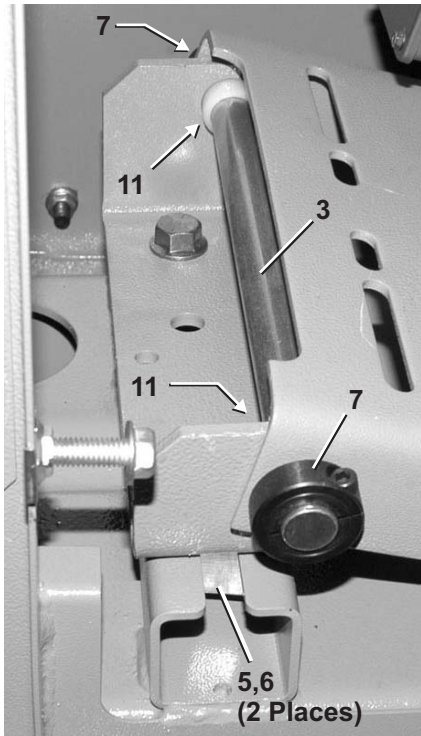
42030V6J/Z only



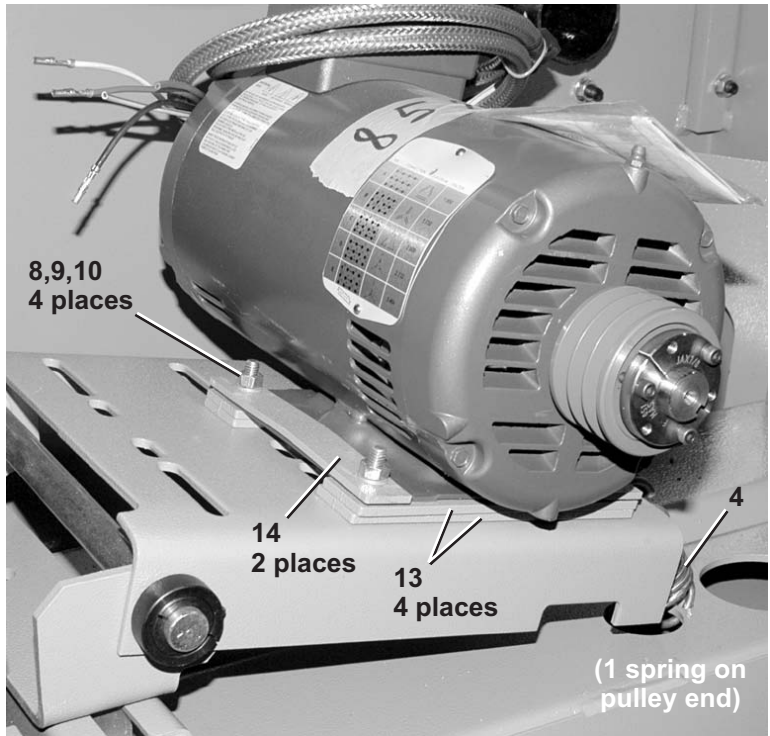
36026V7J/Z & 42026V6J/Z
Spring



Item 12, tube, slides over the shaft to tighten the belt.



All models



30015 & 30022T5E,T5X Motor Mount and Spring

Motor Mount

30015, 30022, 36021, 36026, 42026, & 42030Vxx,Txx

Parts List—Motor Mount				
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	ADB30001	30" DRIVE BASE SNGL MTR ASSY	30015 & 30022T5E/T5X
	B	ADB30007	ASSY=3015/22V DRIVE BASE	3015V7_, 3022V6_
	C	ADB3621V5	ASSY=DRIVE BASE 3621V5	3621V5J WITH STARPLATE
	D	ADB3626V5	ASSY=DRIVE BASE 36V5	3626V5J WITH STARPLATE
	E	ADB3022T5	ASSY=DRIVE 36V7/42V6	3621V7_, 3626V7_, 4426V6_
	F	ADB12001	DRIVE ASSY 4230V	4230V6J_
-----COMPONENTS-----				
ABCDE	1	02 04256	PLATE=MOTOR MNT, 3022S4	
F	1	02 04256D	MOTOR MOUNT PLATE 4230V	
AB	2	02 04257A	BRKT=MOTOR MOUNT 30V	
CD	2	02 04257B	BRKT=MOTOR MOUNT 36V5	
EF	2	02 04257	BRKT=MOTOR MOUNT, 36V7/42V6	
all	3	02 04258	SHAFT=MOTOR MOUNT, 3022S4	
all	4	02 04259	SPRNG/MOT MOUNT/3022S4#SPC2690	
all	5	02 19283	NUT=1/2-13UNCX1+1/2SQ SPEC	
ABE	6	15K154H	INDHEXFLGSCR 1/2-13X1+3/4GR8ZN W/LOCTITE	
EF	6	15K162	HXCAPSCR 1/2-13UNC2AX1.5 GR5 P	
all	7	54JH10750C	SHFTCOLLAR 3/4"CLPTYP(SGLSPLT)	
all	8	15K092Z	HEXFLGSCR 3/8-16X1 GR5 ZINC	
all	9	15G198	HXFLGNUT 3/8-16 ZINC	
all	10	15U241	FLATWASHER 13/32IDX1+3/4ODX14G	
CDEF	11	54E226	FLBRNYL 3/4"X1"X1";EA=1 FLGBRG	
CDEF	12	02 04258B	TUBE=MOTOR MOUNT SPRING ADJ	
A	13	02 03839B	PLATE=MTR MNT REINFORCEMENT	
A	14	02 04256A	DOUBLER=MOTOR	
CDEF	15	15K153H	INDHEXFLGSCR1/2-13X1+1/4GR8ZN W/LOCTITE	
CDEF	16	15G222B	HEXFLGNUT 1/2-13 ZINC SERRATED	
CDEF	17	15U280	FL+WASHER(USS STD)1/2 ZNC PL+D	
F	18	02 02822C	SPACER=MOTOR MT 36V5	4230V6J/Z ONLY

Bearing Assemblies

3

Main Bearing, Shell, & Cylinder Installation

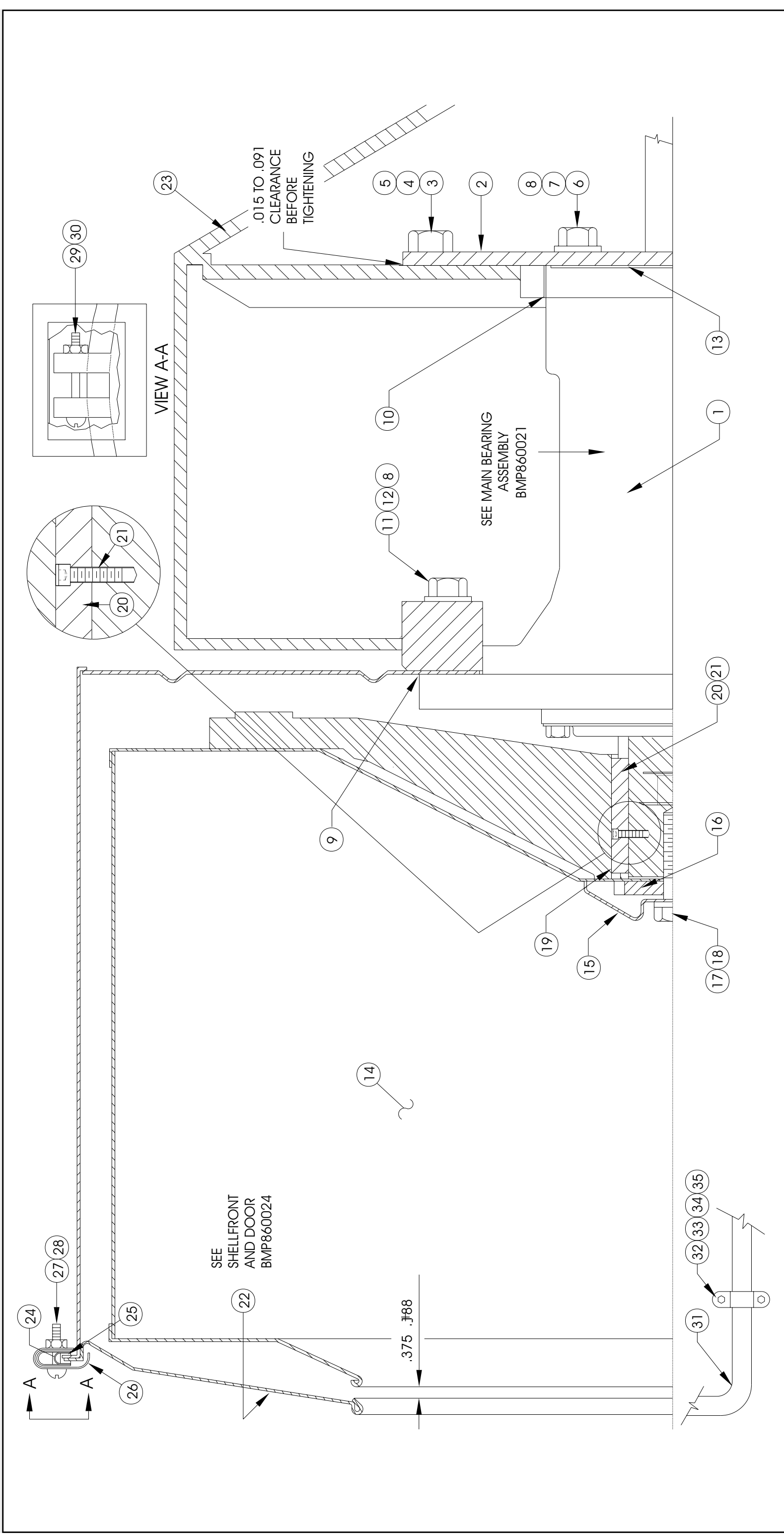
36021Q6G/J/P, 36026Q6G/J/P, 36026V7J, 42026Q4G/J/P, 42026Q6G/J/P, 42026V6J, 42030V6J

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(Sheet 1 of 2)



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Parts List—Main Bearing, Shell, Cylinder
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		GBM14802	BRNG INSTL 36QJ/P STD	36026Q6X
B		GBM14803	BEARING INSTAL 36 3626V6J	36026V7J
C		GBM119001A	MAIN BRG INSTAL 4226Q6P&G	42026Q4X, Q6X, V6J
D		GCA3621Q6	CYLINDER INSTAL 3621Q6	36021Q6X, V6J
E		GCA3626Q6	CYLINDER INSTAL 3626Q6	36026Q6X, V7J, J6P
F		GCA119002	CYL INSTL 4226QU	42026Q4X, Q6X, V6J
FF		GCA12200	CYL INSTL 4230V	4230V6J
G		GSF14803	*SHELL+BASE+FRAME INST 3621QU	36021Q6X, V6J
H		GSF14802B	FRONT+SHELL+BASE 36Q	36026Q4X, Q6X, J6P
J		GSF14802C	FRONT+SHELL+BASE=36V7	36026V7J
K		GSF119001A	FRONT+SHELL+BASE 42R6P+G	42026Q4X, Q6X
L		GSF119001V	FRONT+SHELL+BASE 4226V	42026V6J
			-----COMPONENTS-----	
A	1	ABN14802	MAIN BRNG ASSY 36QJ/P STD	
B	1	ABN14801	36RWPI/E BRG ASSY=PARTS	
C	1	ABN119001A	MAIN BEARING ASSY 4226Q6P/G	
C	1	ABN119002A	MAIN BEARING ASSY 4226V6P/G	
	2	Y2 11320	SPIDER WLDMT=MACHINED 42QHE	
	3	15K232A	HXCPCS 3/4-10X2 GR8 ZC	
	4	15U340	LOCKWASH MEDIUM 3/4 ZINCPL	
	5	15G240A	HEXNUT 3/4-10UNC2B SAE GR8 ZIN	
	6	15K225A	HXCPCSCR-5/8-11X2.5 GR9 ZINC	
	7	15U316	FLTWASH 5/8 ZNC DICR	
	8	20C007	THDLOCK CMPD-10CC LCT#222-21	
	9	20C040B	SILSEAL RTV CLR10.2 OZ #59575	
	10	20C009	ADH/SEALANT-50CC LCT#277-31	
	11	15U316	FLTWASH 5/8 ZNC DICR	
	12	15K225A	HXCPCSCR-5/8-11X2.5 GR9 ZINC	
	13	X2 11158C	SHIM=BRGHOUSE MTG 24GA	
D	14	ACA3621Q6	*CYLINDER ASSY 3621Q6	
E	14	ACA3626Q6	*CYL ASSY 3626Q6	
F	14	ACA4226RWP	*CYL ASSY 4226RWP	
FF	14	ACA12200	CYLASSY4230V	
	15	02 11196	COVER=SHAFT RETAINER=304S/S	
D,E	16	02 14359	SPACER SHT RETNR-LG OUR MATL	
F	16	02 11186	RETAINER+SPACER-SHAFT=4226	

Used In	Item	Part Number	Description	Comments
D,E	17	15B200	HEXCAPSCR 3/4-10X1+3/4 SS18-8	
F	17	15B208	HEXCAPSCR 3/4-10X2+1/4 SS18-8	
	18	15U350	LOCKWASHER 3/4 MED SS18-8	
	19	98E006	HI TECH HAND SOAP PINK 4GL/CS	
	20	02 09126	SHAFTKEY-SS303=OEWS 2+5/8"L	
	21	15N082	FILMACSCR 8-32UNC2X3/8SS18-8	
G,H,J	22	ASF14801	*SHELL FRONT ASSY=3621RWP	
K,L	22	ASF119001	*SHELL FRONT+DOORASSY 4226RWP	
G	23	ASE14803	*SHELL+BASE+FRAME ASSY 3621QU	
H	23	ASE14802B	*SHELL+BASE+FRAME ASSY 3626Q7	
J	23	ASE14802C	SHELL+BASE+FRAME=36V7	
K	23	ASE119001A	SHELL+H FRAME ASSY 42R6P&G	
L	23	ASE119001E	SHELL+H FRAME 4226V	
G,H,J	24	Y2 09031	*SHELL CLAMP RING=36" MACHINE	
K,L	24	Y2 12053	*SHELLCLAMP RING=42" MACHINE	
G,H,J	25	02 02087A	EXTRUS*ION-SHELL=36"MACHINES (
K,L	25	02 02087B	EXTRUS*ION-SHELL=42"OEWS (12.5	
	26	02 02181	GUARD=SHELL MOUNT RING CLIP	
	27	15N146	RDMACHSCR 10-24UNC2X1 SS18-8	
	28	15G130	HEXMACHSCRNUT 10-24UNC2 SS18-8	
	29	15K046S	HEXCAPSCR 1/4-20UNC2A X 2.25 S	
	30	15G170	HEXNUT 1/4-20UNC2 SS18-8	
G,H,J	31	G13 3626QR	CONDUIT ASSY, 3626QXP,J,G	
K,L	31	G13 4226QR	CONDUIT ASSY, 4226QXP,J,G	
	32	12K077	STRAP 1/2" HVY CONDUIT 2-HOLE	
	33	15K037	HEXCAPSCR 1/4-20UNC2A X5/8 GR5	
	34	15U180	LOCKWASHER MEDIUM 1/4 ZINCPL	
	35	15G165	HXNUT 1/4-20UNC2BSAE ZC GR2	

Main Bearing Assembly

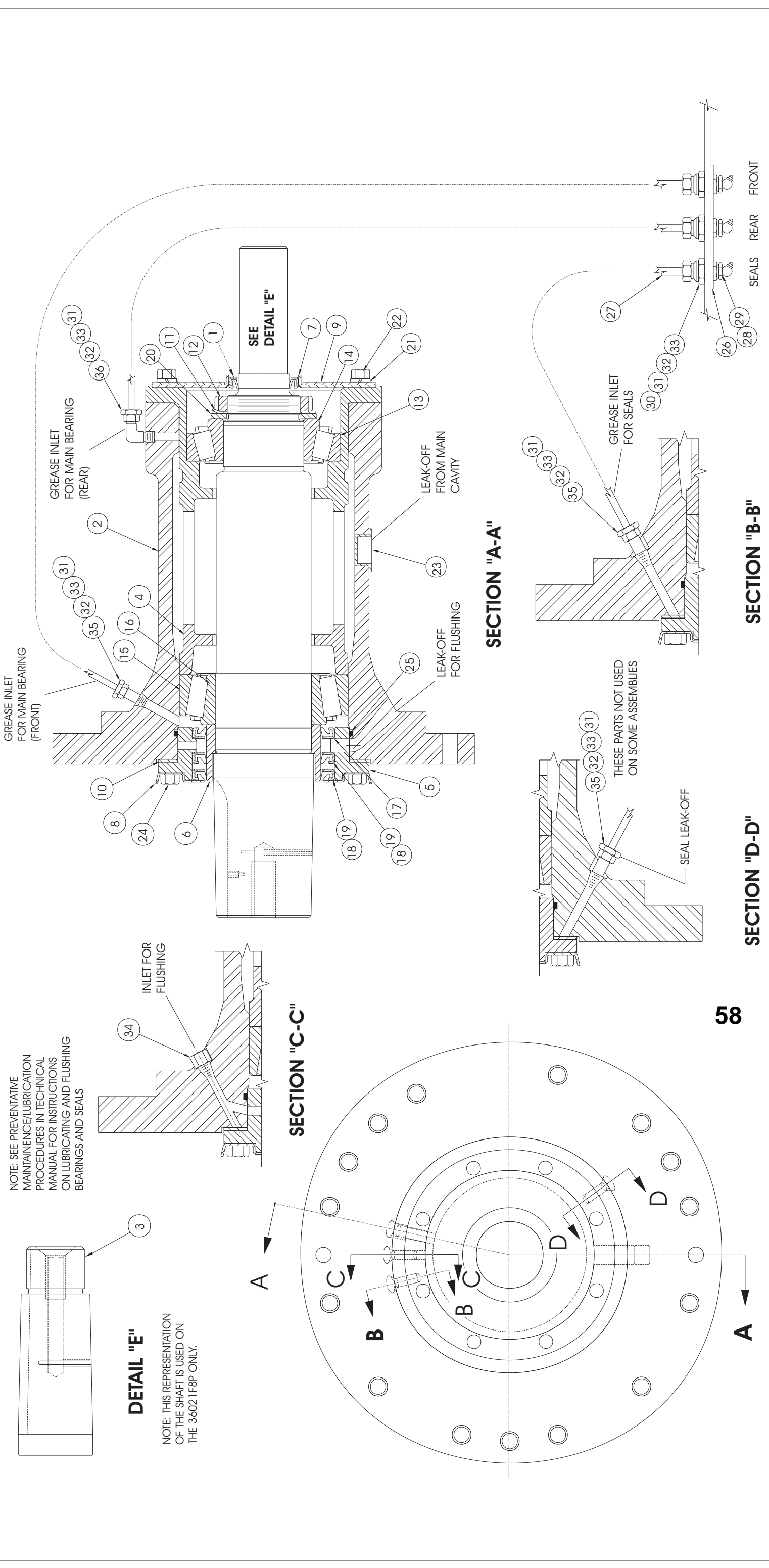
36021F8P, 36021Q6P, 36026Q6G/J/P, **36021V7J**, 36026V7J, 42026Q6G/J/P, 42026V6J, **42030V6J**

BMP860021/2012164B
(Sheet 1 of 2)



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Parts List—Main Bearing 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		ABM14007	MAIN BEARING ASSY 3621F8P	36021F8P
B		ABM14802	BEARING ASSY 36QJ/P	36026Q6P
C		ABM14801	MAINBRG ASSY 3621/26RWPE	36021V7J, 36026V7J
D		ABM119001A	MAIN BEARING ASSY 4226Q6P&G	42026Q6P/G, 42030V6J
			-----COMPONENTS-----	
all	1	24S104	SEAL 1.75X2.378X.312 CS/BUNA	
all	2	X2 14220L	MAIN BRG HOUSE 4226RWP	
A	3	X2 14628	MAINSHAFT 3621QH/P	36021F8P
B	3	X2 14562	MAINSHAFT 3621-26 Q6P	36036Q6P
C	3	X2 14560	MAINSHAFT 3621-26 RWP	36021/36026V7J
D	3	X2 11185	MAINSHAFT=4226 QWE	42026Q6P/G
D	3	X2 11185B	MAIN SHAFT=4226RWP	42026/42030V6J
all	4	X2 14227A	CARRIER=REAR BRG+SPCR-3621	
all	5	X2 14229L	MACH=SEAL HOLDER 4226RWP	
all	6	02 14228A	SEALSLEEVE+SPACER=2.90LG	
all	7	X2 11158	SEALHOLDER-REAR=SUUPPORT MOD	
all	8	02 14214L	WASHER=SEAL RETAIN & LOCKING	
all	9	X2 11158A	SPACER=SEALHOLDER-REAR SUPT	
all	9	X2 11158C	SHIM=BRGHOUSE MTG 24GA	
all	10	02 14216L	GASKET=SEAL HOLDER 1/16 THK	
all	11	56AHW113	TW113 BEARING LOCKWASHER	
all	12	56AHN13	N13 BEARING LOCKNUT	
all	13	54A335	CUP H414210 TIM 2-24 1/BX+PT#	
all	14	54A465	CONE H414249 TIMK 2-51 1BX+PT#	
all	15	54A325	CUP TIM #742 1/BX+PART#	
all	16	54A426	CONE TIM #749 1/BX+PART#	
all	17	24S125	SEAL 4X5X.4 JM#19583 NITRILE	
all	18	24S125	SEAL 4X5X.4 JM#19583 NITRILE	
all	19	24S125V	SEAL 4X5X.4 JM#19583 VITON	
all	20	56ATW13S	TONGUEWASHER SPECIAL FOR N13	OPTIONAL VITON SEALS

Used In	Item	Part Number	Description	Comments
all	21	15U255	LOCKWASHER MEDIUM 3/8 ZINCPL	
all	22	15K113	HXCPSC 3/8 16X1+1/2 GR8 Z	
all	23	51P046	PLUGCAPTAPERED NOTHD PLAS.#54	
all	24	15K096	HEXCAPSCR 3/8-16UNC2X1SS18-8	
all	25	60C160E	ORING 5.984ID1/8CS BUNA70 #258	
all	26	01 10025Z	NPLT:BEARING&SEAL LUB-42" & 36"	
all	27	60E004TE	1/4"OD X.170"ID NYL TUBING	
all	28	5SB0E0CBEO	NPTHEXBUSH 1/4X1/8 BRASS 125#	
all	29	54M020	GREASEFIT 30DEG 1611-B ALEMITE	
all	30	53A007B	BODYFEMCON.25X.25COMP#B66A-4B	
all	31	53A059A	NUT 1/4"BR.HOLYOKE AND #61A-4	
all	32	53A501	TUBE INSERT .163"OD #63PT-4-40	
all	33	53A500	SLEEVE DELRIN 1/4"OD#60PT-4	
all	34	5SP0CFESSV	NPTPLUG1/8SQSLDBLKSTL LVENT125	
all	35	53A005B	BODYMALCON1/4X1/8COMP #B68A-4A	
all	36	53A031B	BODY-EL90MALE.25X1/8 #269C-42B	
all	37	53A501	TUBE INSERT .163"OD #63PT-4-40	
all	38	53A500	SLEEVE DELRIN 1/4"OD#60PT-4	
all	39	53A059A	NUT 1/4"BR.HOLYOKE AND #61A-4	

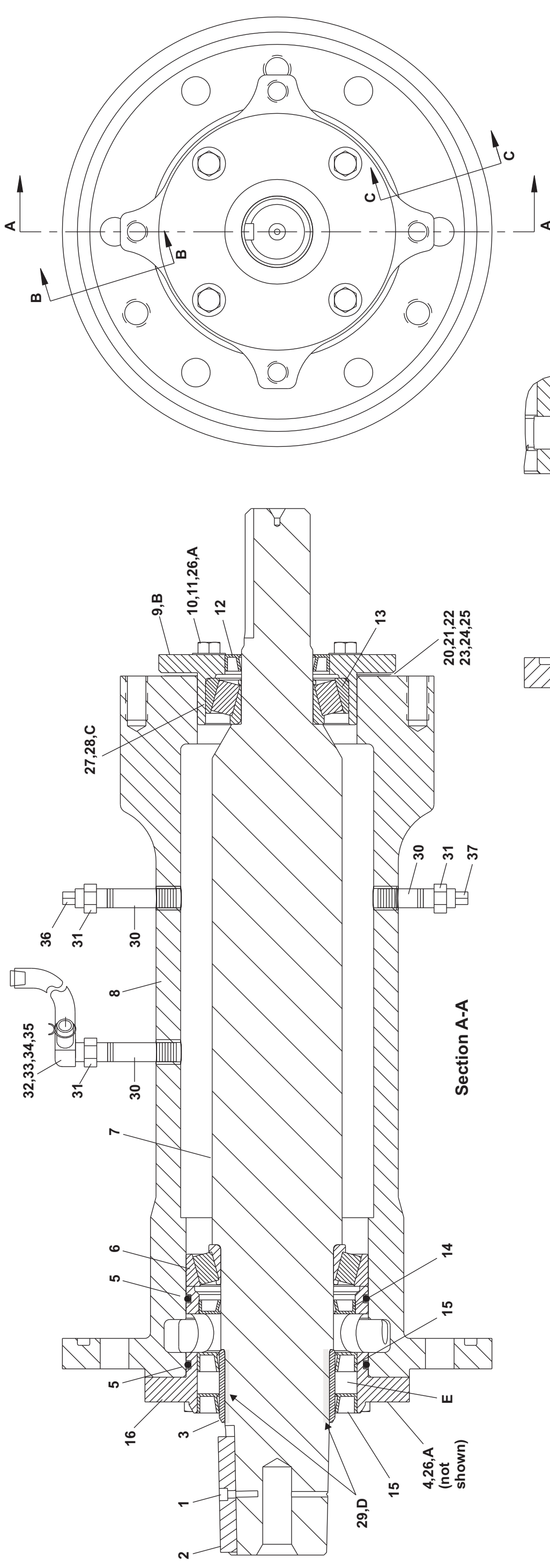
Bearing Assembly 36021V5J, 36026V5J with Starplate



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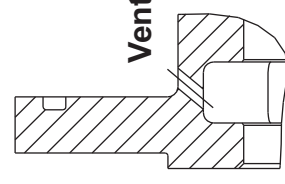
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(Sheet 1 of 3)

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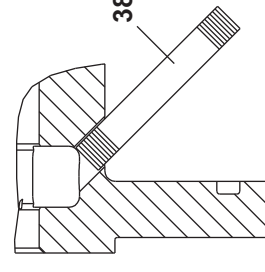


Notes:

- A. Apply adhesive to the bolt.
- B. The seal holder must be fully down before you tighten the fasteners.
- C. Apply primer and adhesive to the rear bearing cup and holder housing.
- D. Clean the shaft and inner sleeve. Make sure that they are clean and free from oil. Apply adhesive to the shaft, then apply the sleeve. Make sure of a bond on a minimum of 75% of the surface.
- E. Pack grease between these two seals during assembly.
- F. Item 17 is not shown. These plugs are used temporarily to prevent dirt from entering unfilled holes.



B-B
Vent



C-C
Leak-off
from Seals

Used In	Item	Part Number	Description	Comments
	A	A33 09906	BRNG ASSY MAIN 3621/26 W/STARPLATE	3621V5,3626V5J
			-----ASSEMBLIES-----	
			-----COMPONENTS-----	
all	1	15H089S	SPRINGPIN 1/8"DIA X 5/8" LONG	
all	2	02 02294A	SHAFT KEY 3/8 X 3/8	
all	3	02 13143	SEALSLEEVE=SWE-1/SWE	
all	4	15B080	HEXCAPSCR 5/16 X1+1/4 SS-18-8	
all	5	60C151	ORING 3+7/8ID1/8CS BUNA70#241	
all	6	54A915916	TIM#JLM710949C/JLM710910-2.5"BORE	
all	7	X2 13107	MACH=MAIN SHAFT, 3621/26	
all	8	X2 03573T	MACH=BEARING HOUSING 3022 V6	
all	9	X2 03659S	HOUSE=SEAL+BRG 30M,V7 W/STARPLATE	
all	10	15K092B	HEXFLGSCR 3/8-16X1 GR8 ZN WITH 242 PATCH	
all	11	15U152A	FLTWSHR .6800D,.375ID,.0625T	
all	12	24S048AAA	SEAL 1.625X2.375X.375 CS/BUNA	
all	13	54A307308	TIM M802011 2-24/M802048=1.625	
all	14	24S052A	SEAL 2.559X3.55X.315 CR#25430	
all	15	24S053	SEAL 2.625X3.625X.437#10051L5	
all	16	X2 13144T	HOLDER=DHAFT SEAL 3022V6	
all	17	27A253	PLUG FOR 1/2BOLTHOLE CAPLUG #4	
all	20	02 03323	SHIM=.003 CRS GREEN	
all	21	02 03323A	SHIM=.005 CRS BLUE	
all	22	02 03323B	SHIM=.010 CRS RED	
all	23	02 03323C	SHIM=.0075 CRS BLACK	
all	24	02 03323D	SHIM=.020 CRS WHITE	
all	25	02 03323E	SHIM=.050 CRS CLEAR	
all	26	20C007H	THDLK REMVBL-#24221	
all	27	20C011B	RETAIN CMPD ADH LCT#60905 .5CC	
all	28	20C006P	PRIMER-N #7649 LCT#21348-4	
all	29	20C009	THRDLKSEAL LCT#27731 50CC	
all	30	5N0E02KG42	NPT NIP 1/4X2.5 TBEGALSTL SK40	

Parts List, cont.—Bearing Assembly				
Used In	Item	Part Number	Description	Comments
all	31	5SCC0EBE	NPT COUP 1/4 BRASS 125# W/HEX	
all	32	5SLOEBEC	NPTLNB 90DEG STRT 1/4 BRASS125	
all	33	27A043A	HOSECLAMP.562"DIA.SPRG#HC9STZD	
all	34	60E005P	PVC TUBING 1/2"ID X 5/8"OD	
all	35	27A106	CORK SIZE 4 XXX E=1	
all	36	51P013	PLUG HXCNTRSUNK 1/4"BRASS	
all	37	5SP0EFFSSM	NPT PLUG 1/4 SQSLDMAGNET BLKST	
all	38	5N0E05AG42	NPT NIP 1/4X5 TBE GALSTL SK40	

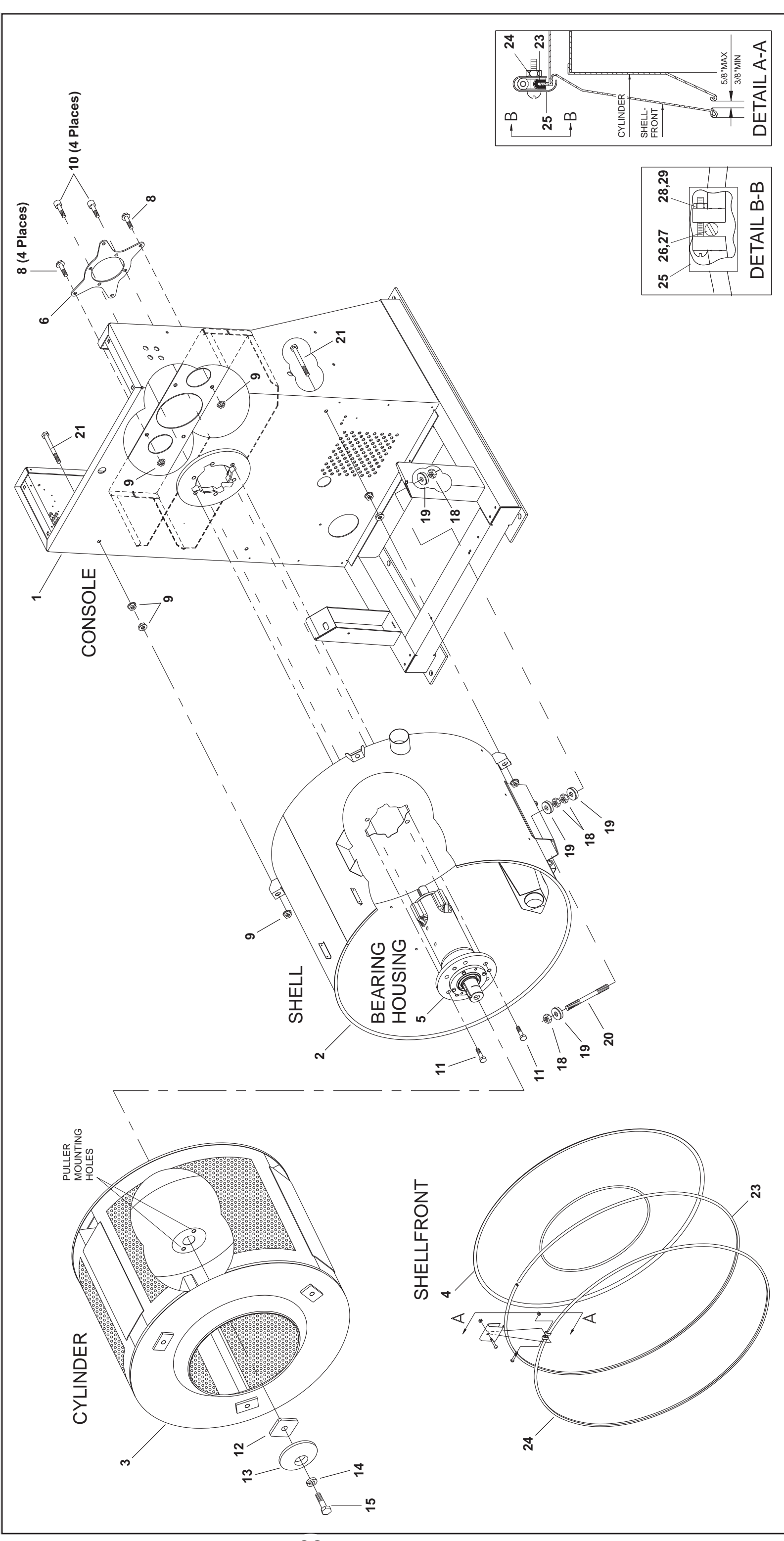
Main Bearing, Shell, Cylinder Installation

BMP120028/2015384B
(Sheet 1 of 3)



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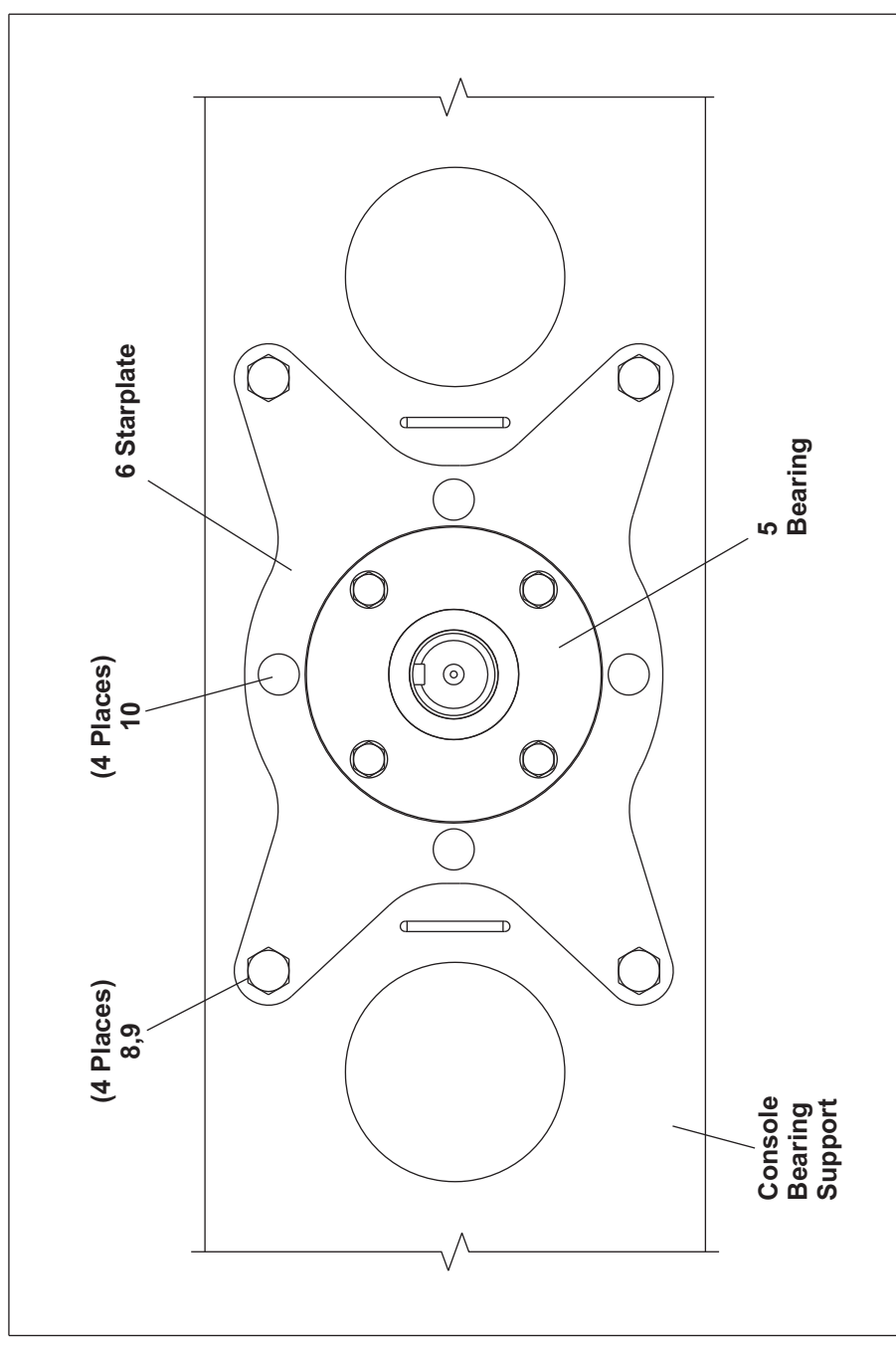
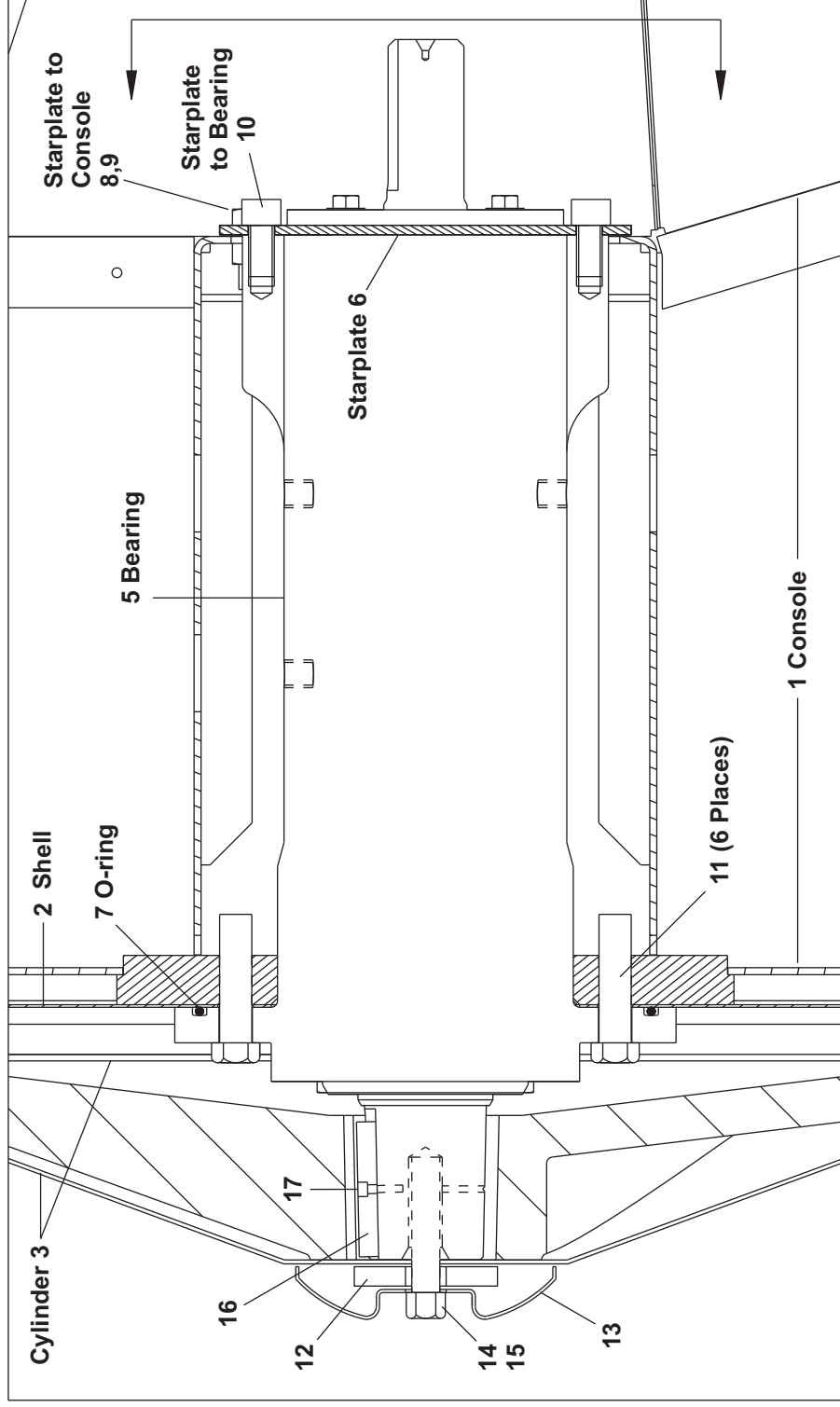
Main Bearing, Shell, Cylinder Installation
 36021V5J, 36026V5J with Starplate

BMP120028/2015384B
 (Sheet 2 of 3)



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Parts List—Main Bearing, Shell, Cylinder Installation
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	GBM30010	3621/26V5J BRNG HOUSING W/STARPLATE	36021V5J,3626V5J
	B	GCA3621Q4	CYL INSTL 3621 Q4	
	C	GCA3626Q4	CYLINDER INSTALL 3626Q4	
	D	GSF14810	INST=SHELL+BASE+FRM STRPL 3626V5J	
	E	ASE14810	ASSY=SHELL+BASE+FRAME 3626V5J	
			-----COMPONENTS-----	
all	1	W3 11002J	FRAME-BASE WLMT-36V W/STARPLATE	
all	2	W3 11060J	SHELL WLMT 3626V5J W/STARPLATE	
all	3	ACA3621Q4	*CYL ASSY 3621 Q4	
all	4	ASF14801	*SHELL FRONT ASSY=3621RWP	
all	5A	A33 09906	BRNG ASSY MAIN 3621/26 W/STARPLATE	
all	5B	A33 09906V	BRNG ASSY MAIN VITON 3621/26 W/STARPLATE VITON	
all	6	02 11340	3022 BEARING SPT STARPLATE	
all	7	60C171	ORING 8.5"IDX 3/16CS BUNA70 #371	
all	8	15K154H	INDHEXFLGSCR 1/2-13X1+3/4GR8ZN W/LOCTITE	
all	9	15G222B	HEXFLGNUT 1/2-13 ZINC SERRATED	
all	10	15K147C	SKCPSC 1/2-13X1 BLK	
all	11	15K224C	HEXCAPSCR 5/8-11X2-1/2 S/S 18-	
all	12	02 14359	SPACER SHT RETNR-LG OUR MATL	
all	13	02 11196	COVER=SHAFT RETAINER=304S/S	
all	14	15U350	LOCKWASHER 3/4 MED SS18-8	
all	15	15B200	HEXCAPSCR 3/4-10X1+3/4 SS18-8	
all	16	02 09126	SHAFTKEY-SS303=OEWS 2+5/8"L	
all	17	15N082	FILMACSCR 8-32UNC2X3/8SS18-8	
all	18	15G238	HXNUT 5/8-11UNC2B SAE ZINC GR2	
all	19	17W030	SPHERICAL WASHER SET 5/8 M/F	
all	20	17R024A07A	THREADED ROD 5/8-11X7" ZNPL GR	
all	21	15D119	HXTAPSCR 1/2-13X4 GR5 ZNC FTL	
all	23	02 02087A	EXTRUSION-SHELL=36" MACHINES	
all	24	Y2 09031	*SHELL CLAMP RING=36" MACHINE	
all	25	02 02181	GUARD=SHELL MOUNT RING CLIP	

Used In	Item	Part Number	Description	Comments
all	26	15N146	RDMACHSCR 10-24UNC2X1 SS18-8	
all	27	15G130	HEXMACHSCRNUT 10-24UNC2 SS18-8	
all	28	15K046S	HEXCAPSCR 1/4-20UNC2A X 2.25 S	
all	29	15G170	HEXNUT 1/4-20UNC2 SS18-8	
all	30	20C013C	GSKT ELIM SEAL LCT#50441 250CC	

18 Inch Door Assemblies before 8/2016

4

Installation 18 Inch Door

3621C4E, 3621V5J/V7J, 3626V5J/V7J, 4226V6J, 4230V6J

BMP110052/2016283B
(Sheet 1 of 2)



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Hinge Installation: 3621C4E, 3621Vxx, 3626Vxx



Hinge Installation: 4226V6J, 4230V6J

3626V7J Shown

Installation 18 Inch Door

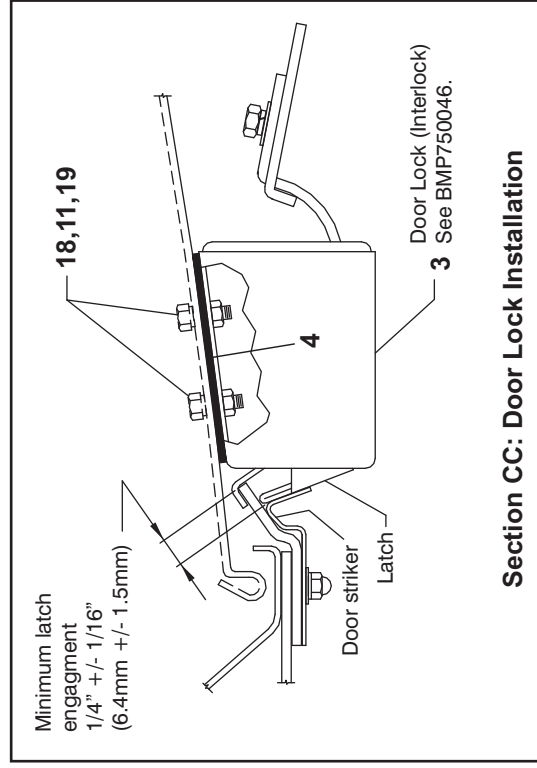
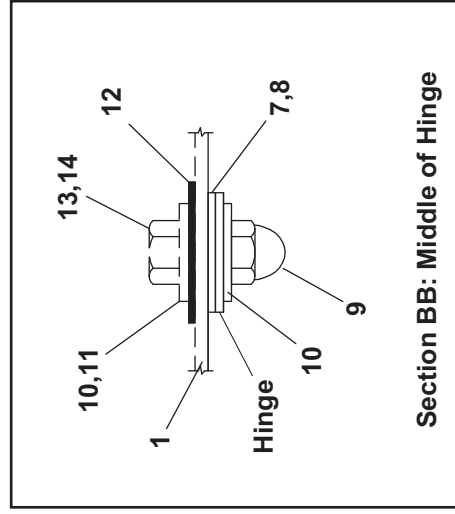
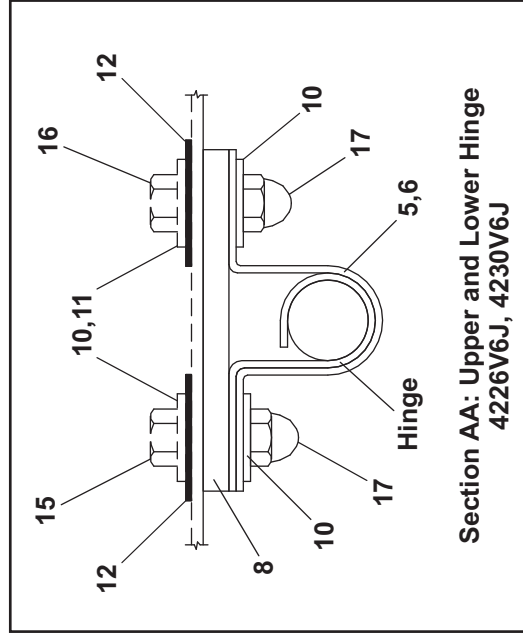
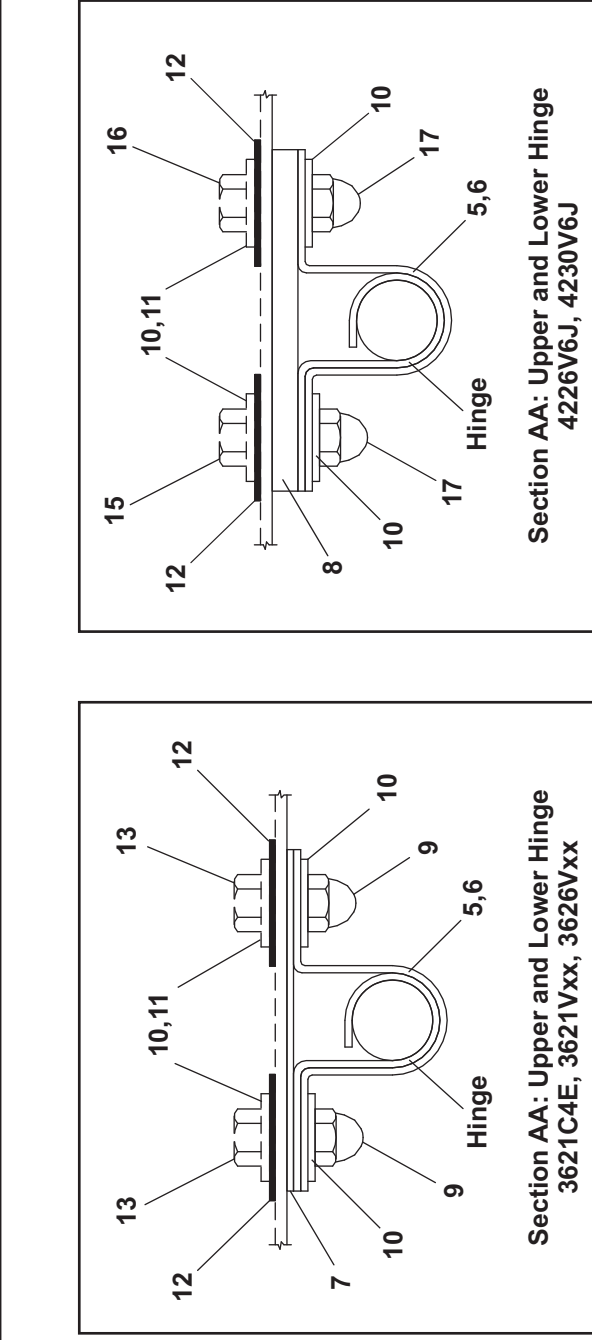
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(Sheet 2 of 2)

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Parts List—Door Installation

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	ASF14801A	3621C4 SHELLFRONT ASSY	3621C4E
	B	ASF14801	*SHELL FRONT ASSY=3621RWP	3621V5J/V7J, 3626V5J/V7J
	C	ASF119001	*SHELL FRONT+DOORASSY 4226RWP	4226V6J, 4230V6J
			-----COMPONENTS-----	
A	1	X2 14195B	SHELLFRONT I-LOC W/PROX	
B	1	X2 14195A	SHELLFRONT ALL 36" W/LOCK	
C	1	X2 11904R	SHELLFRONT STAMPING 42RWP	
A	2	A13 03500H	ASSY=SHELLDOOR 3621 C4E	
B	2	A13 03500G	ASSY=SHELLDOOR DRAWN, 36XX	
C	2	ASD119001B	ASSY=SHELLDOOR W/STIFF, 4226	
A	3	EDL00137C	INTRLKHSG ASSY=N/O W/PROX 120V	
BC	3	EDL00337	*INTRLKHSG ASSY=N/LOCK 120V	
A	4	02 03669C	GASKET=INTRLK HOUSING 8" LONG	
BC	4	02 03669	GASKET=INTRLK HOUSING	
all	5	02 09223	DOUBLER=UPPER S/S DOOR HINGE	
all	6	02 09224	DOUBLER=LOWER S/S DOOR HINGE	
B	7	03 11054A	SPACER=DOOR HINGE/4226	
C	8	03 11054	SPACER=SHELLFRONT/HINGE	
AB	9	15G200	HXCPNUT 3/8-16 UNC2A 5/8X1/2	
all	10	15U245	FLTWASH 3/8 STD COMM 18-8 SS	
all	11	24G030N	ROLLED WASH.379ID NYLTITE 37W	
BC	12	02 02293	DOOR HANDLE NUT GASKET	
AB	13	15K086	HXCAPSCR 3/8-16NCX3/4 SS18-8	
C	14	15K086D	HXCAPSCR 3/8-16 UNC2A X 7/8" 1	
C	15	15K096	HEXCAPSCR 3/8-16UNC2X1SS18-8	
C	16	15K100	HEXCAPSCR 3/8-16X1+1/4 SS18-8	
C	17	15G200C	HXCPNUT HI 3/8-16 BRASS NIK PL	
all	18	15N174	HXCAPSCR 1/4-20UNC X5/8SS188	
all	19	15G168	SQNUIT 1/4-20UNC2 SS18-8	

Door Assembly

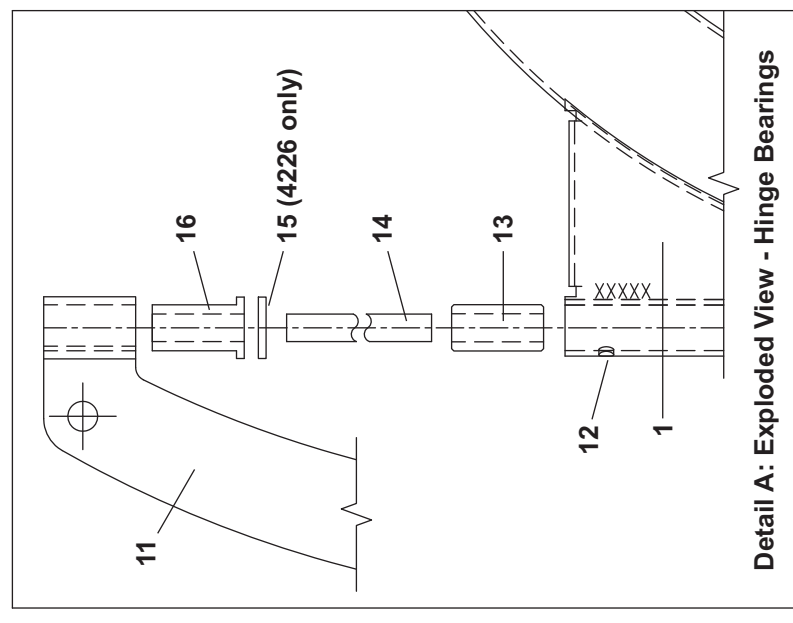
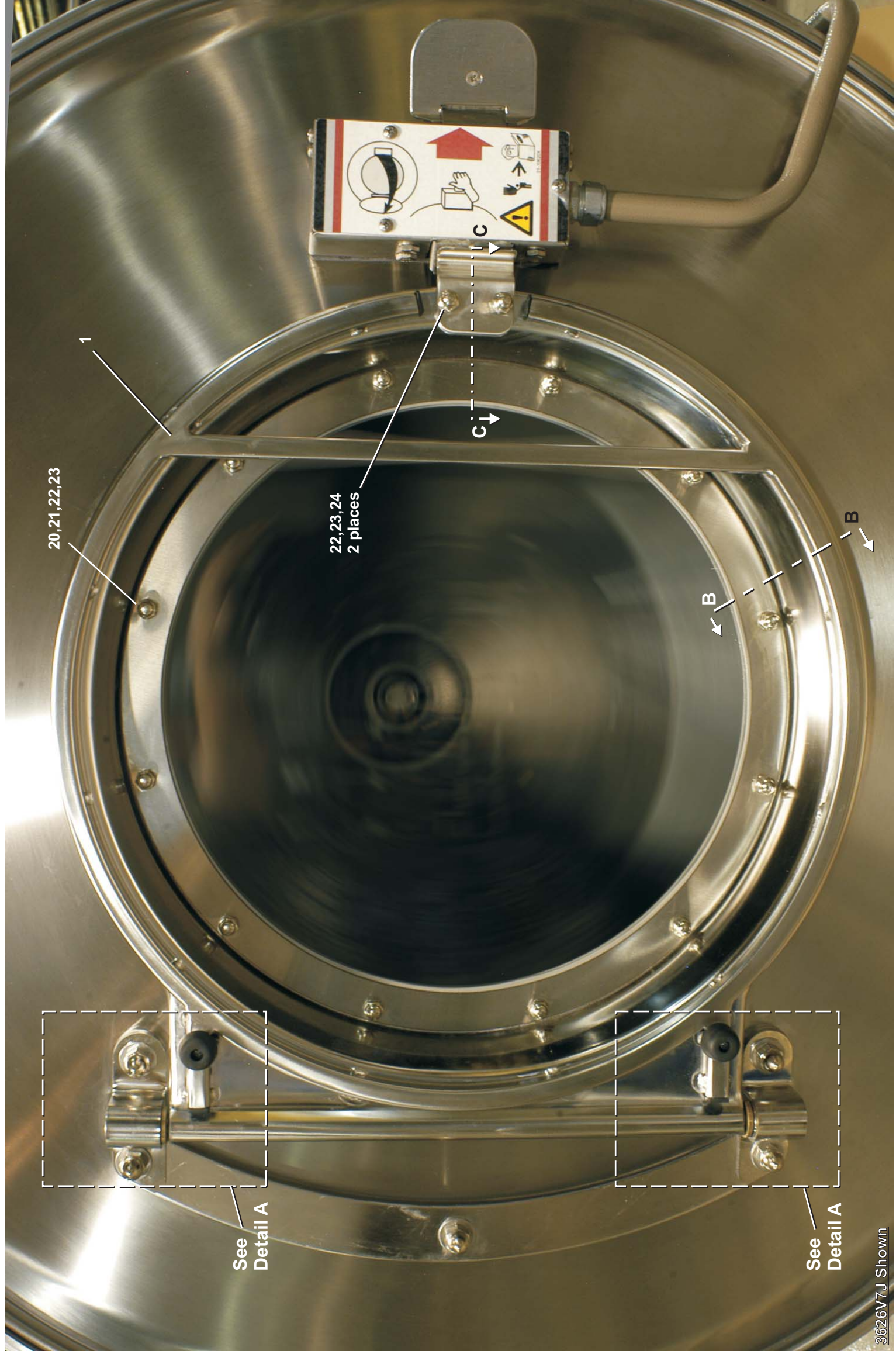
3621C4E, 3621V5J/V7J, 3626V5J/V7J, 4226V6J, 4230V6J



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Detail A: Exploded View - Hinge Bearings



Door Assembly Detail:
3621C4E, V5J, V7J & 3626V5J, V7J

Door Assembly

3621C4E, 3621V5J/N7J, 3626V5J/N7J, 4226V6J, 4230V6J



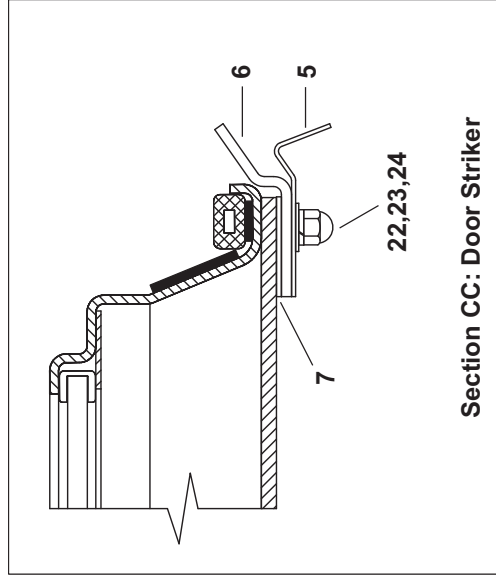
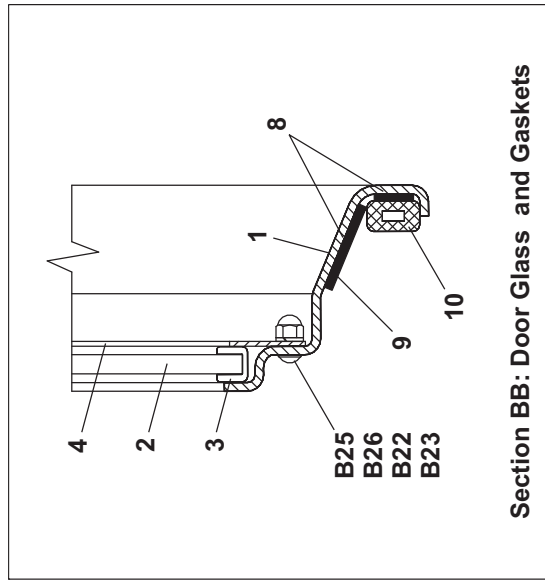
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BMP110053/2011405B
(2 of 2)

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Door Assembly: 4226V6J,4230V6J



Parts List—Door 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	A13 03500H	ASSY=SHELLDOOR 3621 C4E	3621C4E
	B	A13 03500G	ASSY=SHELLDOOR DRAWN, 36XX	3621V5J/N7J, 3626V5J/N7J
	C	ASD119001B	ASSY=SHELLDOOR W/STIFF, 4226	4226V6J, 4230V6J
			-----COMPONENTS-----	
AB	1	X2 09220G	MACH=SHELLDOOR DRAWN, 36XX	
C	1	W2 11904Q	WLMT=SHELLDOOR W/STIFF, 4226	
A	2	02 09219A	DR GLASS=3621 C4E W/LOGO	
B	2	02 09219	DRGLASS 14+13/16"36W+DRWN DR	
C	2	02 12008	DOORGLASS 17"DIA=4226W DOOR	
AB	3	02 09141	A GASKET-DORGLAS GTR52-5220-1	
C	3	02 12054	DOOR GLASS GASKET	
AB	4	02 09129	RING=DOOR GLASS PRESS-18"OPG	
C	4	02 11904P	RING=GLASS RETAINER-4226RWP	
all	5	03 01423H	LATCH GUARD = ILOC 3015-20	
all	6	03 01420G	DOOR STRIKER = ILOC	
all	7	02 11904K	SHIM=DOOR HANDLE=4226RWP	
all	8	20C018	ADHESIVE-3M #1357-QT CN	
AB	9	02 14431	EXTR BAND STAMPED SS CYLDOOR	
C	9	02 11904J	BUMPER=CYL DOOR STAMPED42RWP	
AB	10	02 14168	SPONGE DOORGASKET=BLACK	
C	10	02 11904V	DOOR GASKET 4226RWP MED BLACK	
all	11	02 09221	HINGE=SHELL DOOR 18" DRAWN S	
all	12	15Q077	SOKSETSCR 1/4-20X1/4 ZINC ALLE	
all	13	02 02815	PLAIN BRG=DOOR HINGE-NYLON	
all	14	02 12144	PIN-HINGE=20+18" DOORS	
all	15	15U201	FLATWASH 7/80DX3/8IDX.062THK S	
A	16	02 02817	FLANGE BRG=DOOR HINGE-NYLON	
BC	16	54E017	FLBRG3/8X5/8X1.25BRZ FB610-10	
all	17	51PB0KM	SQUARE PLUG-CAPLUG#1/2-16-18	
all	18	60C080	RECESS BUMPER RUBBERLAVELLE #7	
all	19	15P103	TRDCUT-F RDHDSLOT 8-32UNCX1/2	
all	20	15K031	BUTSOKCAPSCR 1/4-20X1/2 SS18-8	
all	21	24G020N	ROLLED WASH.252ID NYLTITE 25W	
all	22	15U181	LOCKWASHER MEDIUM 1/4 SS18-8	
all	23	15G140	HXCAPNT 1/4-20 #C250=20 NKLPLT	
all	24	15N191	FLATMACHSCR 1/4-20X7/8 SS18-8	

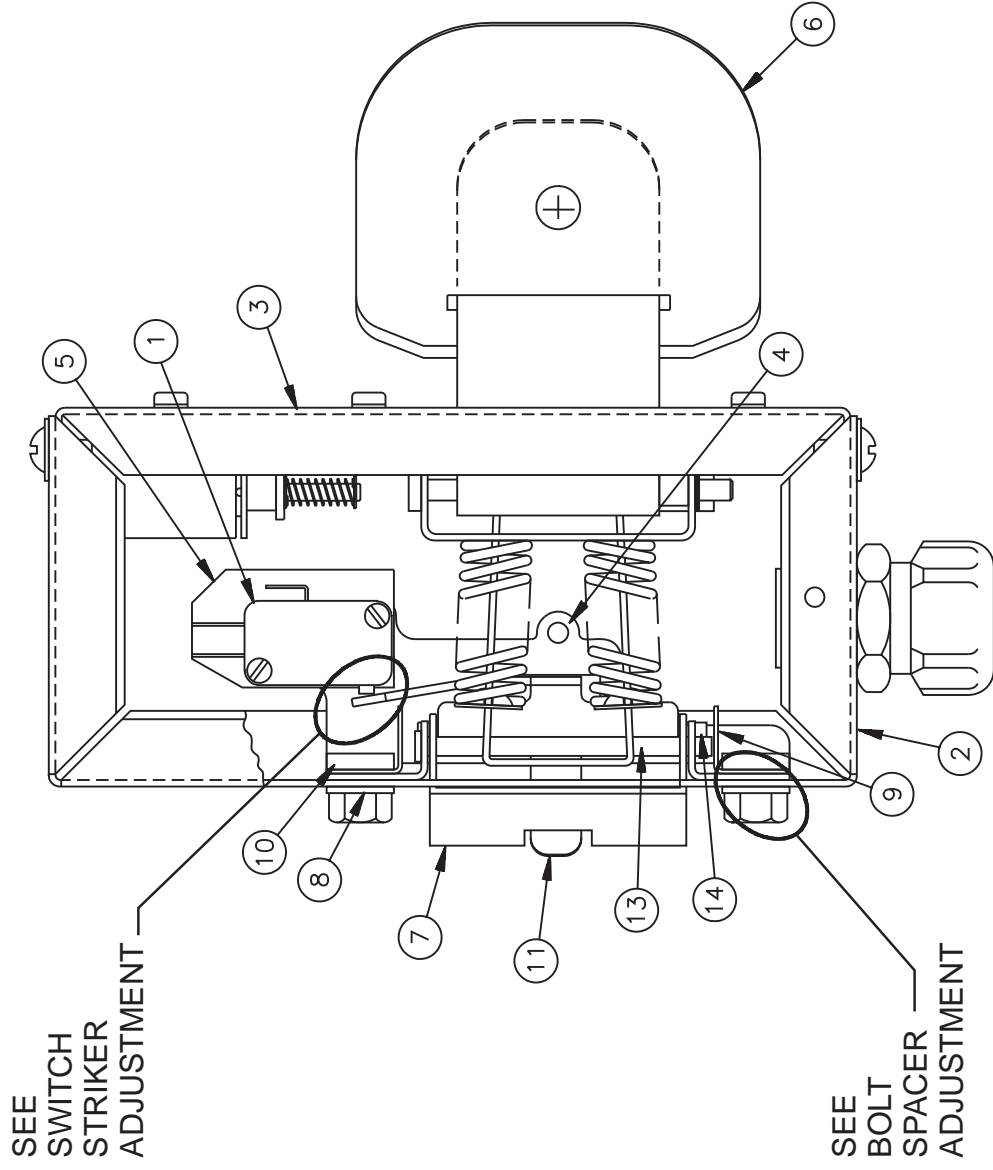
Interlock Assembly

BMP750046/2012383B
(Sheet 1 of 2)



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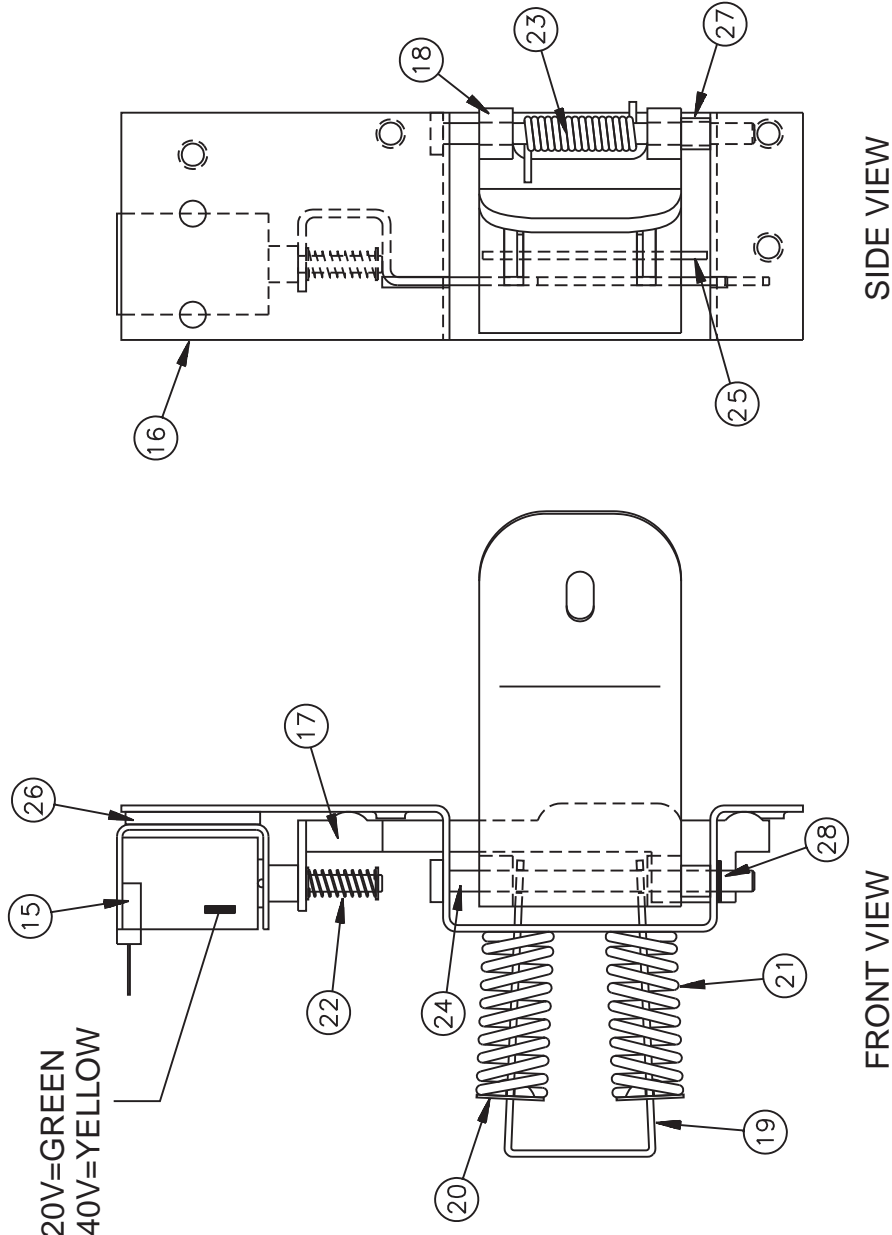
Litho in U.S.A.



SEE SWITCH STRIKER ADJUSTMENT

SEE BOLT SPACER ADJUSTMENT

110V-120V=GREEN
220V-240V=YELLOW

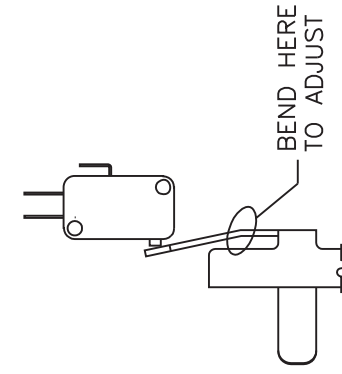


FRONT VIEW

SIDE VIEW

ASSEMBLIES 00AA,00BB,00CC,00DD

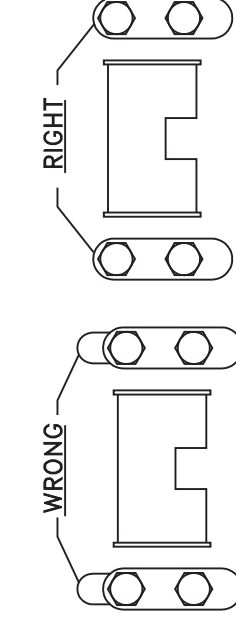
SWITCH STRIKER ADJUSTMENT



Adjust the switch striker arm by bending as shown so that :

- 1) The switch is activated when the door is closed
- 2) The switch does not actuate when the unlatching lever is fully depressed with the door open
- 3) The arm does not over travel and hit the switch housing when the door is closed and the switch is actuated.

BOLT SPACER ADJUSTMENT



Bolt Spacer Adjustment

- 1) On a new machine the slots on the front housing should not show a gap past the bolt spacers.
- 2) The spacers should be installed with the long side toward the shellfront



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Litho in U.S.A.

Parts List—Interlock 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	EDL00171		88093# INTRLKHSG ASSY=N/UNLOCK 240V	30015V7J,T5J,T5E 3015/20/22 Mxx,Cxx,Vxx
AA	EDL00171A		93207@ RR PIVOT PL ASSY=N/UNLOCK240V	USED ON 00A (CONTAINS ITEMS 15-28)
B	EDL00221		96411 INTRLKHSG ASSY=N/LOCK 220V	3022F8J/PW 3630F8J/PW/S
BB	EDL00271A		93207#*RR PIVOT PL ASSY=N/LOCK 220V	USED ON 00B (CONTAINS ITEMS 15-28)
C	EDL00337		88093#*INTRLKHSG ASSY=N/LOCK 120V	36&42QXX,BWP 3015D4A 36021V6J, 3621V5J, 3626V5J 36026V7J, 42026V6J 42030V6J
CC	EDL00337A		93207# RR PIVOT PL ASSY=N/LOCK 120V	USED ON 00C (CONTAINS ITEMS 15-28)
D	EDL00371		94000Z INTERLKHSG=N/LOCK+SWITCH240V	3022V6J,T5J 3022S4J,S4G,S5J 3015K4A,S4J,S5G,S5J
DD	EDL00271A		93207#*RR PIVOT PL ASSY=N/LOCK 220V	USED ON 00D & 00E (CONTAINS ITEMS 15-28)
E	EDL00271		88093#INTRLKHSG ASSY=N/LOCK 220V	30022T5E
			-----COMPONENTS-----	
all	1	09R014A	05ZMIMI-SW SPDT STAKON #V15G1C26K	
all	2	03 01426	77201D HOUSING=FRONT=ILOC	
D only	2	03 01426A	94186D HOUSING=FRONT= ILOC W/UNLATC	
all	3	03 01427A	77181C HOUSING=REAR=ILOC (C-7)	
D only	3	03 01427B	94186D HOUSING=REAR=ILOC W/UNLATCH	
all	4	03 01429	75479C PLATE=FNT PIVOT=ILOC	
all	5	03 01335	INSULATOR=AUTOSPOT	
all	6	03 01425A	92683C DOOR HANDLE EXTENSION	
all	7	03 01423	75736B LATCH = INTERLOCK	
all	8	03 01417	75100B PLATE=SPACER=ILOC	
all	9	03 01418B	75194B KEEPER=LATCH PIN/NOTCH	
all	10	03 01418	75100B TAP STRIP=ILOC	

Parts List, cont.—Interlock Assembly

Used In	Item	Part Number	Description	Comments
all	11	03 01424A	90501B STRIKER=SWITCH=LONG TAB	
all	12	03 01442	92697B SOLENOID INSULATION=DR INTRK	(NOT SHOWN)
all	13	03 01443	84251AFLATHDRIVET 5/32X2+5/16 ZINC	
all	14	15H091	01Z STRGHTPIN 5/32"X2.25 LG ZINC	
AA,BB,DD	15	09K062B71	04Z SOLENOID 240/60--220/50 = ILOC	
CC	15	09K062B37	03Z SOLENOID(C-7)120/60--110/50	
all	16	03 01428A	93207C PLATE=REAR PIVOT=ILOC (C-7)	
AA	17	03 01421B	93207B SLIDE=NORMALLY OPEN(C7 SOL)	
BB,DD	17	03 01421A	75736B SLIDE=NORMALLY LOCKED=ILOC	
CC	17	03 01421D	77341B SLIDE=NORMALLY LOCKED(C7-S)	
all	18	03 01425	75479B HANDLE=ILOC	
all	19	03 01422	94256C KEEPER=SPRING=ILOC	
all	20	03 01444A	77503B SPRING CUP = ILOC	
all	21	03 01444	82293ASPRING .51/1.69/46+CADPL	
all	22	03 01445	88481ASPRING .2/.625/.319+CADPL	
all	23	03 01445B	75935B TORQUE SPRING (.53 IN-#)CDPL	
all	24	03 01443	84251AFLATHDRIVET 5/32X2+5/16 ZINC	
all	25	15H090I	STRAIGHT PIN 5/32"DIAX1.75"LG ZINC	
AA only	26	03 S1X1	88172B SHIM:DOOR INTLK SOLENOID N4P	
all	27	27B205080Z	SPCRROLL.177ID.218L.027T STLZC	
B	27	27B205080E	01ZSPCRRROLL.177ID.25L.027TK CSZNC	
BB,CC,DD	28	03 01418C	75736B KEEPER=NORMLOCKED SLIDE=ILOC	

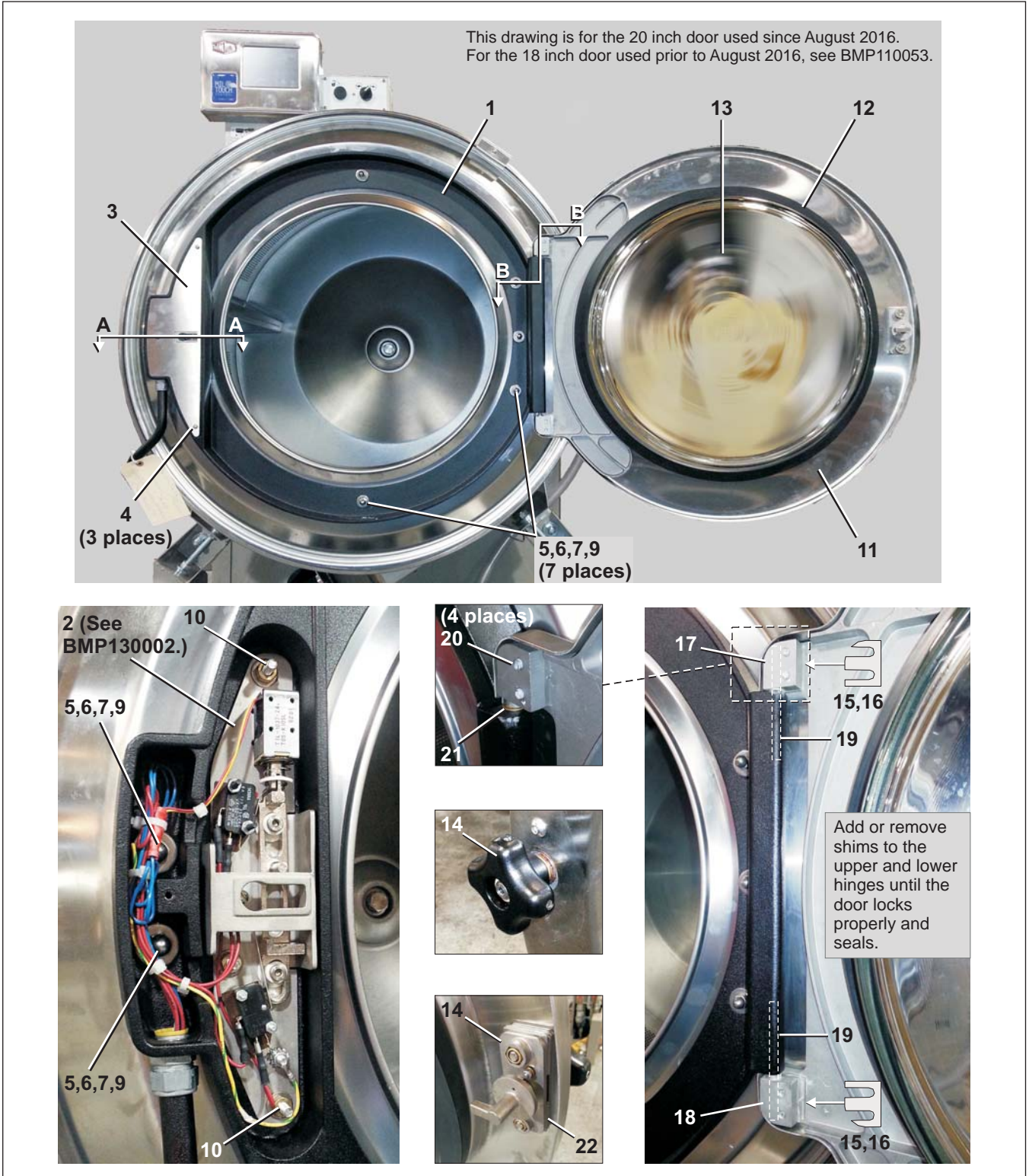
20 Inch Door Assemblies after 8/2016

5

20" Flat Front Door

36021V5Z, 36021V7Z, 36026V5Z, 36026V7Z, 42026V6Z, 42030V6Z

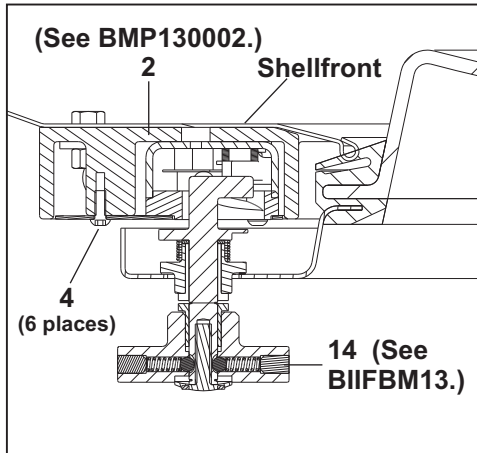
Door Components



20" Flat Front Door

36021V5Z, 36021V7Z, 36026V5Z, 36026V7Z, 42026V6Z, 42030V6Z

Lock, Hinge, and Door Glass Installation

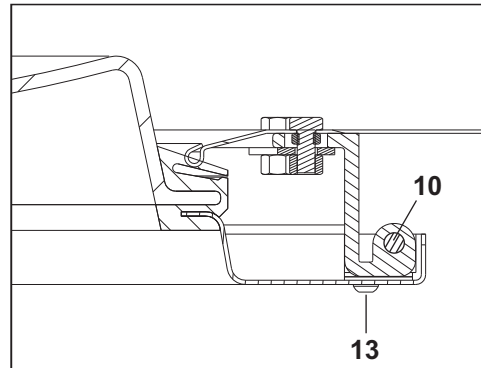


Section A-A: Door Installation

Door Assembly:

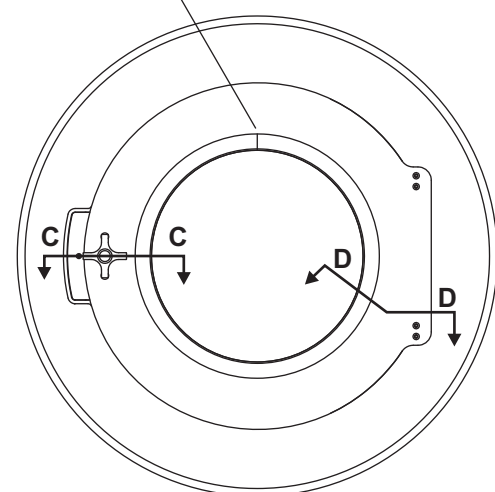
Door Glass Installation

Install the gasket into the door before installing the glass. Observe the location of the rubber seal joint line and adjust if necessary.

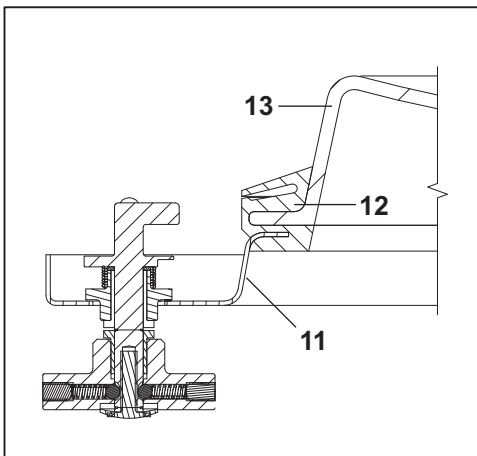


Section B-B: Door Installation

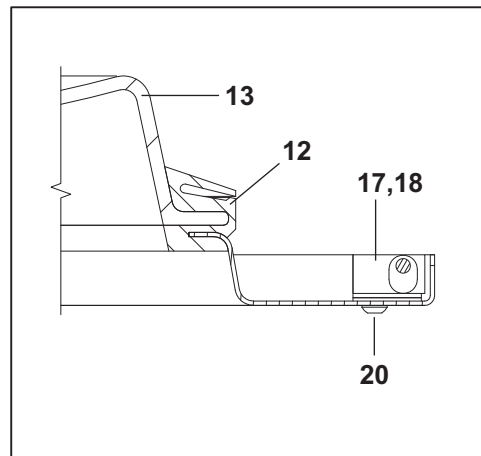
Ensure that the gasket joint is at top-dead-center.



Door Assembly



Section C-C:



Section D-D:

20" Flat Front Door

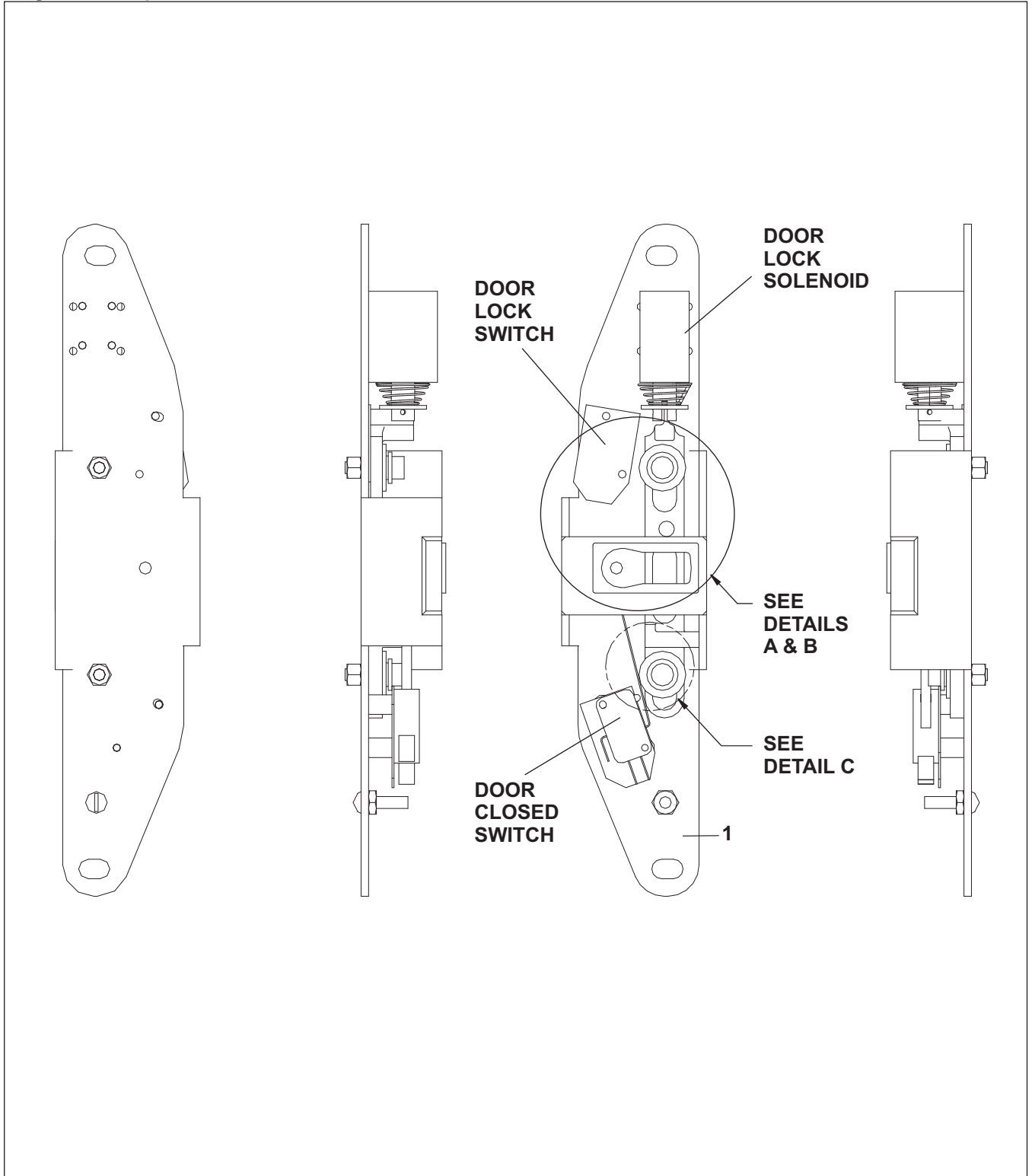
36021V5Z, 36021V7Z, 36026V5Z, 36026V7Z, 42026V6Z, 42030V6Z

Parts List—20 Inch Flat Front Door				
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	ASF14803	36V 20" SHELLFRONT DOOR ASSY	REFERENCE 3621V,3626V
	B	ASF119005	42V-20" SHELLFRONT/DOOR ASSY	4226,4230V
	C	ASD119004	ASSY DOOR=20" FLAT FRONT	DOOR ASSEMBLY
-----COMPONENTS-----				
all	1	02 11992	20" DOOR FRAME FLATFRONT MACHINED	
all	2	98CMCR0971	DOOR INTERLOCK ASSY V8Z VRJ MILNOR ASSY A33 03226B	
all	3	02 11996	DOOR LOCK BOX COVER 20" DOOR	
all	4	15K017	BUTSOKCAPSCR 10-24X1/2 SS	
all	5	15K052	HXCAPSCR 5/16-18UNC2AX3/4 SS18	
all	6	24G027N	ROLLED WASH.312ID NYLTITE 31W	
all	7	15U246	FLATWASHER 1"ODX25/64IDX1/8"30	
all	8	15G192	HXCPNUT 5/16-18UNC2SS18-8 9/16	
all	9	15G184	HXCPNUT HI 5/16-18 BRASS NIK PL	
all	10	17S2500A	DOUBLE END 1/4-20X1-1/8 STUD 1/4 ONE END AND 3/4 ONE END CS	
all	11	02 11991	20" SHELL DOOR FLAT FRONT	
all	12	02 11993	20" DOOR GASKET FLAT FRONT	
all	13	02 11994	20" DOOR GLASS FLAT FRONT	
all	14	98CMCR0925	ASSY=DR HNDL MECH	
all	15	02 03297A	30" DOOR HINGE SPACER 16GA	
all	16	02 03297	30" DOOR HINGE SPACER 14GA	
all	17	02 03262	20" FLAT FRONT DOOR HINGE RIGHT	
all	18	02 03262A	20" FLAT FRONT DOOR HINGE LEFT	
all	19	X2 03296B	HING PIN 3022V8	
all	20	15K042	BUTSOKCAPSCR 1/4-20NCX1 SS18-8	
all	21	15U186	FLATWASHER (USS STD) 1/4" BRASS	
all	22	02 04192A	.015 SHIM=DOOR MNT PL,3022H7	

Door Lock Mechanism

MCR27E5, MWR27E5; 3015T6X,VRJ,V8Z,VZZ; 30022T6X,VRJ,V8Z,VZZ; MWF27J8, MWF27Z8; 30022X8R
36021V5Z, 36021V7Z, 36026V5Z, 36026V7Z, 42026V6Z, 42030V6Z

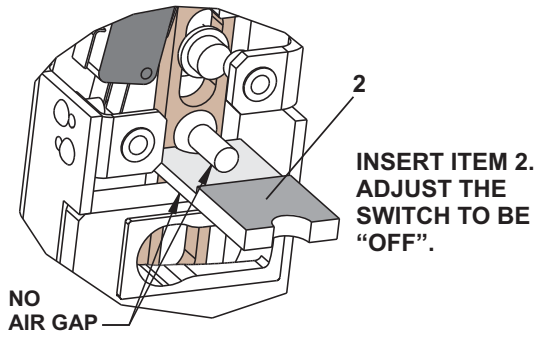
Figure 1: Components



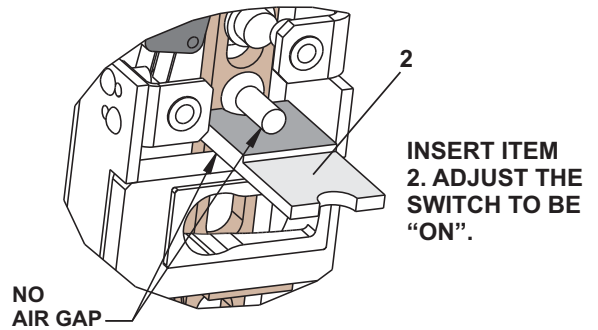
Door Lock Mechanism

MCR27E5, MWR27E5; 3015T6X, VRJ, V8Z; 30022T6X, VRJ, V8Z; MWF27J8, MWF27Z8; 30022X8R
36021V5Z, 36021V7Z, 36026V5Z, 36026V7Z, 42026V6Z, 42030V6Z

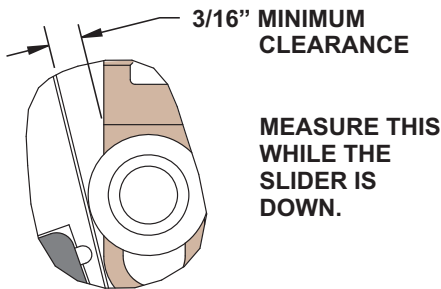
Figure 2: Slider and Settings



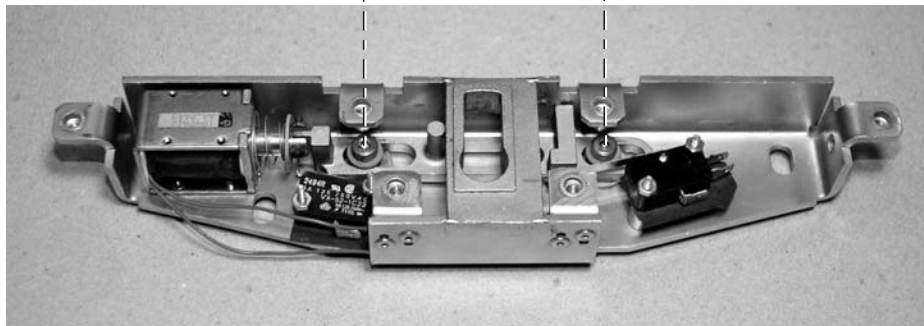
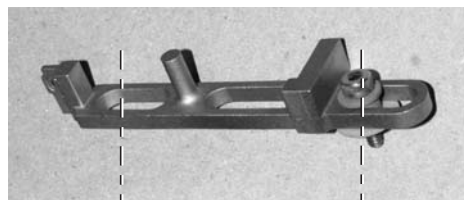
DETAIL A:
DOOR LOCK SWITCH "OFF"



DETAIL B:
DOOR LOCK SWITCH "ON"



DETAIL C:
DOOR CLOSED SWITCH



Door Lock Mechanism

MCR27E5, MWR27E5; 3015T6X,VRJ,V8Z; 30022T6X,VRJ,V8Z; MWF27J8, MWF27Z8; 30022X8R
 36021V5Z, 36021V7Z, 36026V5Z, 36026V7Z, 42026V6Z, 42030V6Z

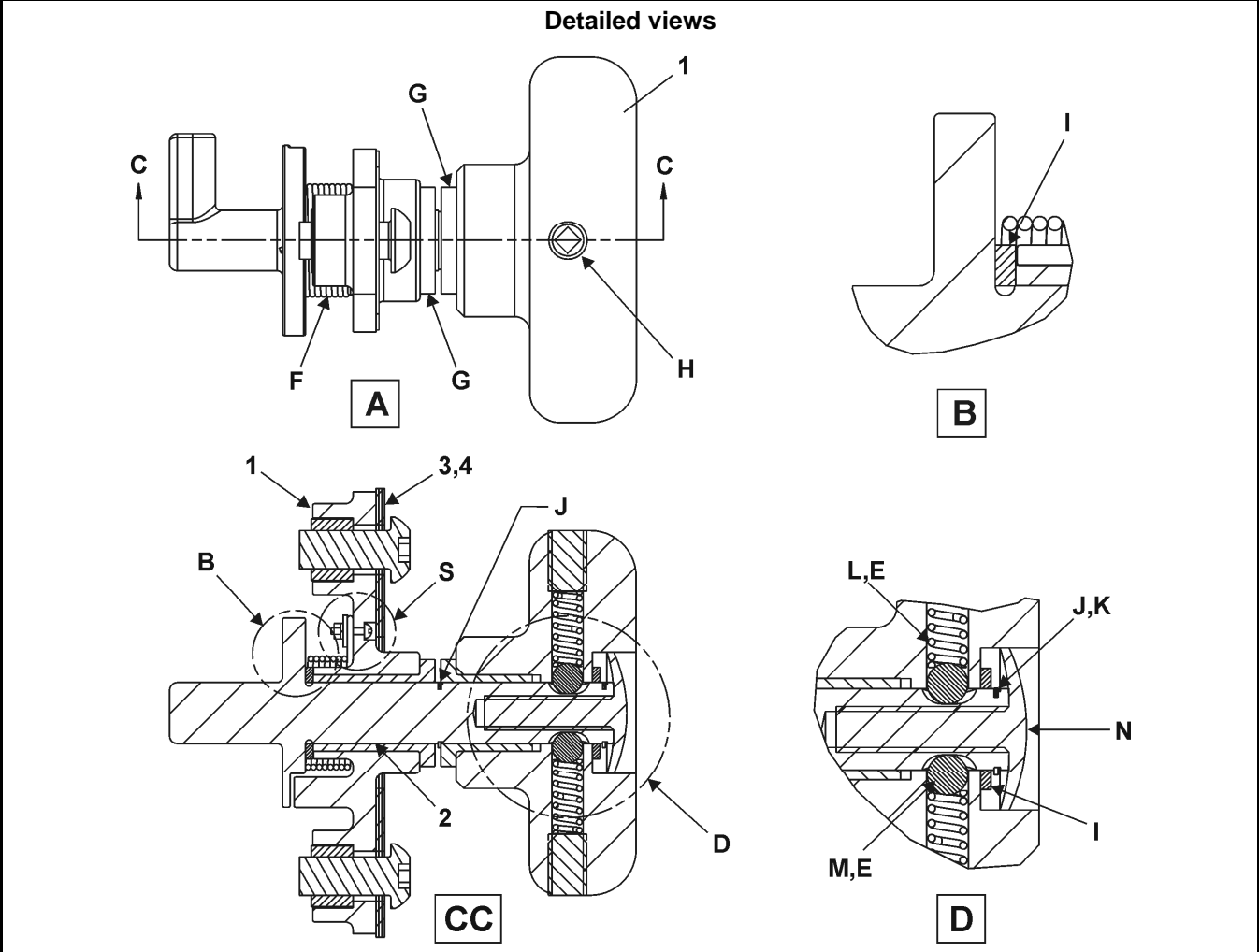
Parts List—Door Lock Mechanism

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
-----COMPONENTS-----				
All	1	98CMCR0971	DOOR INTERLOCK ASSY V8Z VRJ MILNOR ASSY A33 03226B	
All	2	X2 03306A	MACH=GAGE DR LOCK SWITH,MCR	

Door Handle and Lock Actuator

Figure 1: Door Handle and Lock Actuator



Legend

- A. Top
- B. Detailed view
- CC. Cross Section
- D. Detailed view
- E. instances 4
- F. Torsion spring
- G. Flange bearing
- H. Bolt
- I. Thrust washer
- J. Retainer ring
- K. Do not open the ring more than necessary to get it on the shaft.
- L. Spring
- M. Roller ball
- N. Retainer

Figure 2: Add or remove shims until the door locks correctly and seals.

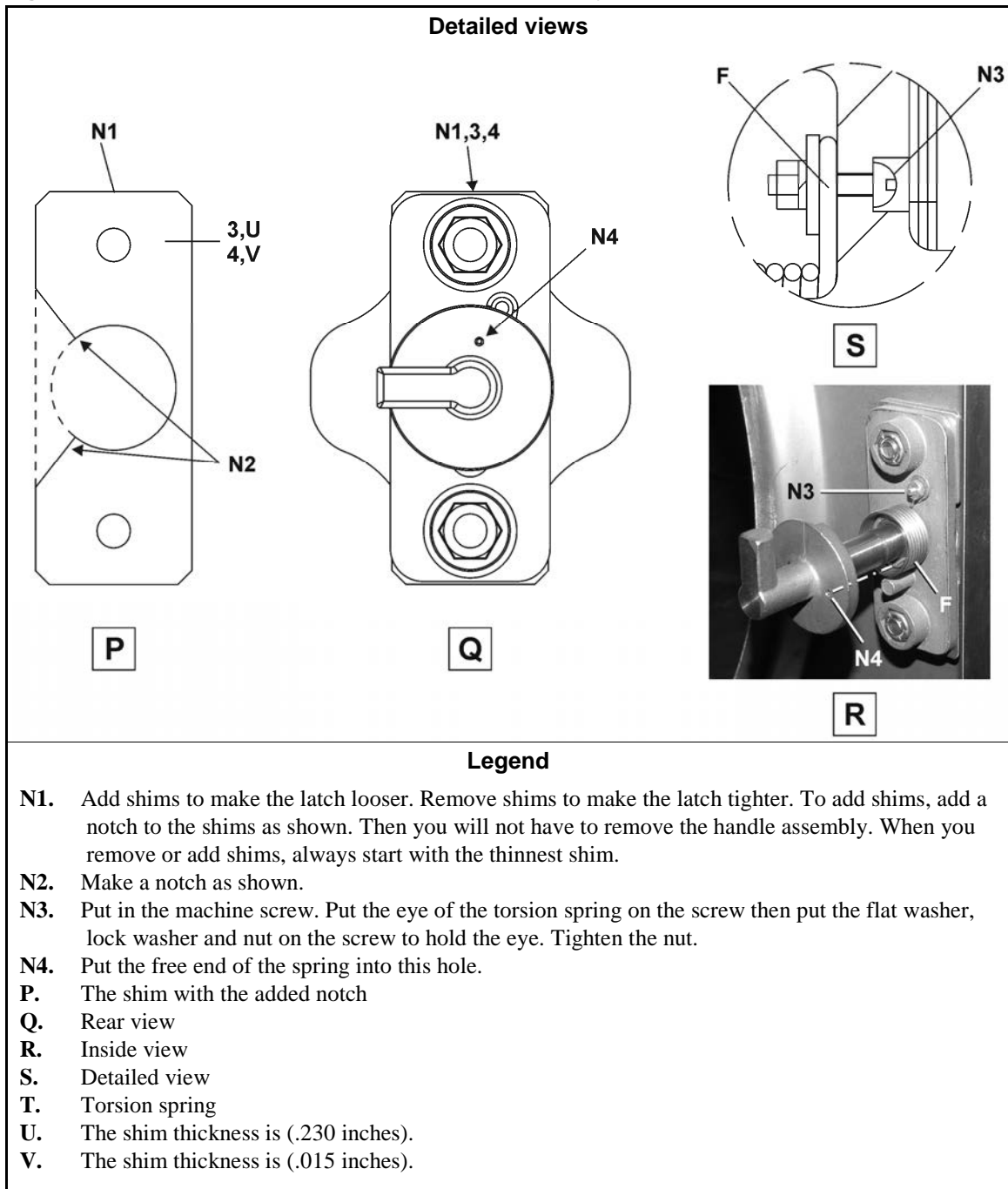


Table 1: Parts List—Door Handle and Lock Actuator

Find the assembly for your machine and the letter shown in the "Item" column. The components for your machine will show this letter or the word "all" in the "Used In" column. The numbers shown in the "Item" column are those shown in the illustrations.				
Used In	Item	Part Number	Description/Nomenclature	Comments
Components				
	1	98CMCR0925	Assembly	
all	2	20C007	Adhesive	
all	3	02 04192	Shim, .023	
all	4	02 04192A	Shim, .015	

— End of BIIFBM13 —

Chemical and Supply Devices

6

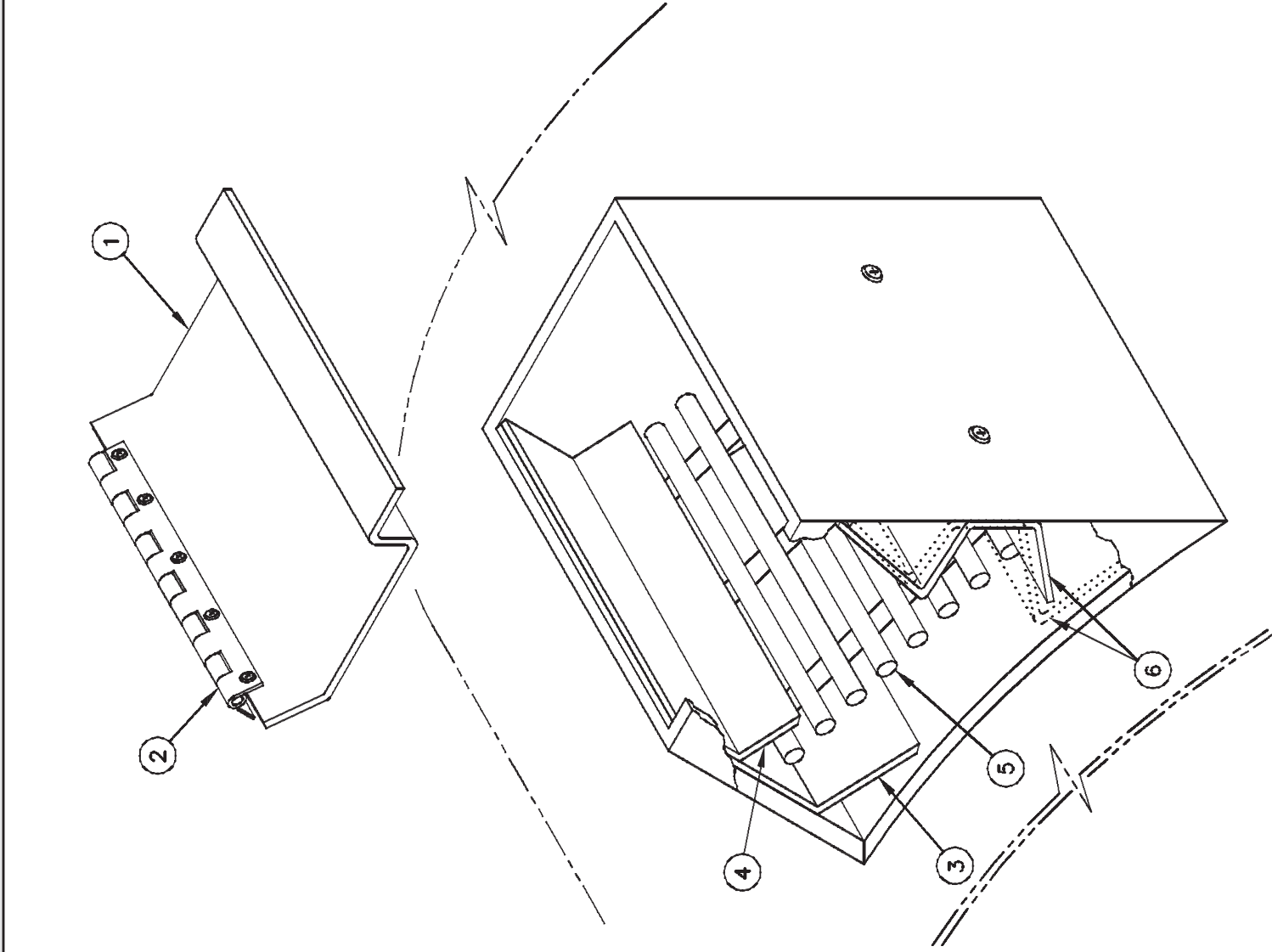
Soap Chute Assembly

BMP870042/2012383B
(Sheet 1 of 1)



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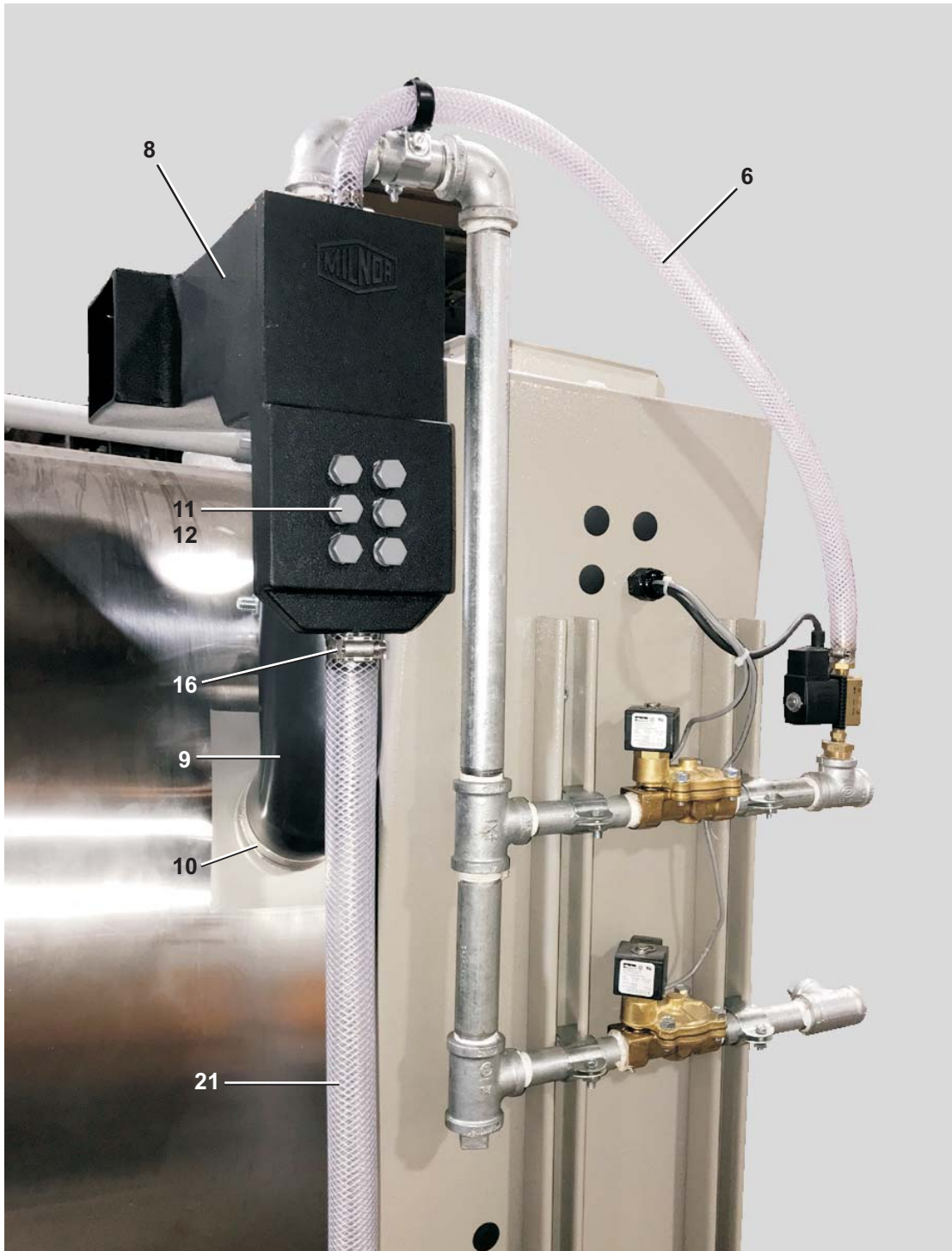


Parts List—Soap Chute Assembly
Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred to in the "Used In" column to identify which components belong to an assembly. The item numbers (1, 2, 3, etc.) assigned to components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

Used In	Item	Part Number	Description	Comments
-	-	-	ASSEMBLIES	36TMM,OEW,CPE,NSP,BWP 36021/36026V5J,36026V7J 36021/36026QXX 3621C4E 42026V6J,42030V6J 42026QXX CONTAINS 1 & 2
W		AD 02 013A	80182C SOAP CHUTE ASSY - BALCOM	
X		GG514804	89063# SOAP CHUTE INSTL 36RWP	
Y		GG5119002	89063D SOAP CHUTE INSTL 42RWP	
Z		SA 02 065	81223B COVER ASSY=SOAP CHUTE	
-	-	-	COMPONENTS	
Z	1	02 02739	91046B SOAP CHUTE COVER YOUR MATL	
Z	2	02 02706	87456A HINGE=SOAP CHUTE	
X,Y	3	02 10262A	78327B SPLASHPLATE,REAR=42Q SOAPCHT	
X,Y	4	02 11932	86361B PLATE-ANTI SPLASH 42 RWP	
W,X	5	02 02326A	78252B GUARD-BALCOM SOAP CHUTE	
Y	5	02 02326B	89063B GUARD-RWP SOAP CHUTE SPCL	
X	6	02 11936	87163C PLATE=ANTISPLASH RWP	
Y	6	02 11936A	89063C ANTI-SPLASH PLATE RWP SPCL	

Peristaltic Supply Assembly

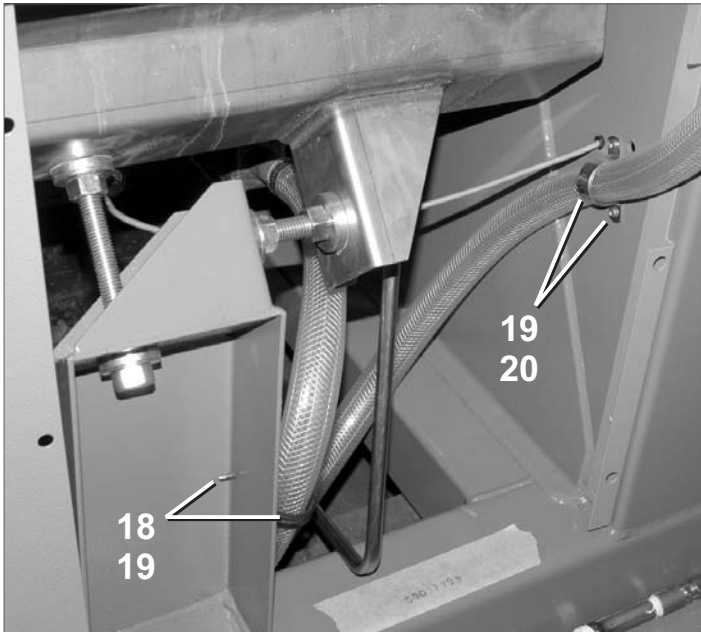
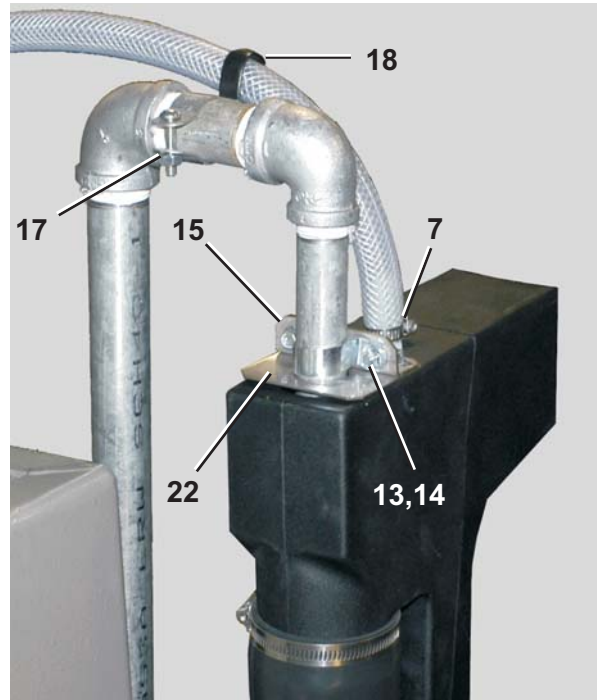
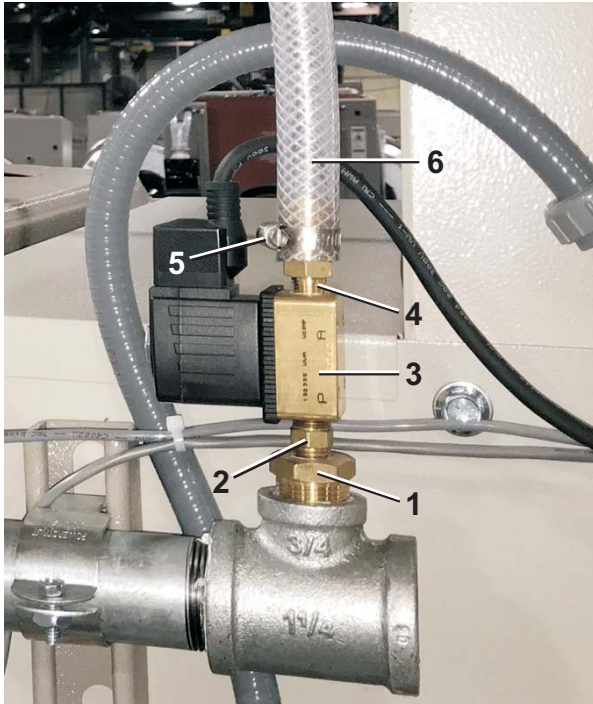
36021V5J, 36026V5J, 36021V7J, 36026V7J, 42026V6J, 42030V6J
36021V5Z, 36026V5Z, 36021V7Z, 36026V7Z, 42026V6Z, 42030V6Z



(36021V5J Shown)

Peristaltic Supply Assembly

36021V5J, 36026V5J, 36021V7J, 36026V7J, 42026V6J, 42030V6J
36021V5Z, 36026V5Z, 36021V7Z, 36026V7Z, 42026V6Z, 42030V6Z



Peristaltic Supply Assembly

36021V5J, 36026V5J, 36021V7J, 36026V7J, 42026V6J, 42030V6J
 36021V5Z, 36026V5Z, 36021V7Z, 36026V7Z, 42026V6Z, 42030V6Z

Parts List

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
-----COMPONENTS-----				
All	1	5SB0P0EBEO	HEXBUSH 3/4X1/4 BRASS 125#	
all	2	53A026A	HEXPIPNI.25X.25 AND#122A-B	
all	3	96P058A37	1/4"NPT X 1/8"ORIFICE 120V 5/6	
all	4	51E507D	HOSESTEM BRASS 1/4MPX5/8HOSEID	
all	5	27A040	HOSECLAMP 7/16-25/32SS W/SCREW	
all	6	60E007C	TUBING NYL.REINF.5/8"IDX.8750D	
all	7	27A044S	HOSECLAMP 11/16-1.25SSCR#64012	
	8A	SA 33 059C	ASSY=PERISTALIC/WATER 90 DEG ASTM	3621V_,3626V_ 4226V_, 4230V_
	8B	02 03588J	PERISTALTIC/WATER INLET 3022H	
all	9	02 03588C	3642 INLET HOSE	
all	10	27A082S	HOSECLAMP 2+9/16-3.5SS305SCR	
all	11	51PB0GN	PLUG PIPE 3/8"NPT P-38 HD POLY	
all	12	20C040	SUPERFLEX SILICONE ADH 85GR	
all	13	15K038B	1/4-20X 1/2 HEXFLANGE SCREW	
all	14	15G178	1/4"-20 HEXFLANGE NUT ZINC	
all	15	02 03588L	36/42V PERISTALTIC BOX BRKT	
all	16	27A090S	HOSECLAMP 13/16-1.5"SS#64016B	
all	17	12C055H	1 1/2" CONDUIT HANGER	
all	18	27A023A	CLAMP RUBBER-CUSH STEEL LOOP	
all	19	15P053	8-18X3/4 PPHTEKSSW/MICROSPHERE	
all	20	12K105	1" STRAP CONDUIT 2-HOLE	
all	21	60E010	TUBINGPOLYBRAID 1"X1.312	
All	22	02 03588K	36V PERISTALTIC BOX TOP COVER	

5 Compartment Supply

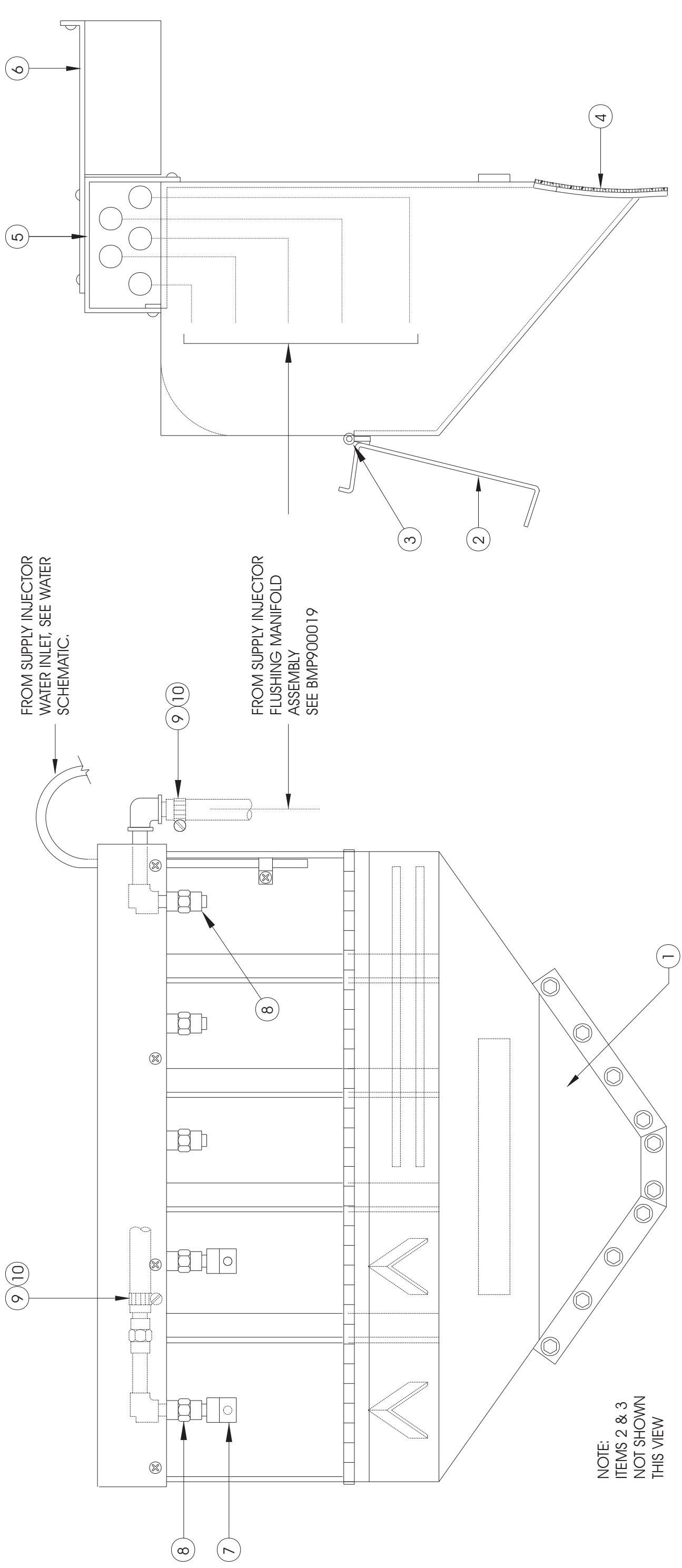
36021BWP, 36021/36026/42026Qxx, **36021**/36026/42026/42030Vxx



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BMP860026/2012383B
(Sheet 1 of 2)

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Litho in U.S.A.

Parts List—5 Compartment Supply

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-----				
	V	GWS119002	INSTAL=SUPPLY INV ASSY RWP	42026Qxx, 42026V6J 42030V6J
	W	GWS14802	INSTAL=SUPPLY INJ ASSY 36RWP	36021,36026Qxx 36021/36026V5J,36026V7J
	X	AWS119001A	SUPPLY INJ ASSY 3621Q	V-W , 36021BWP
	Y	AWI11007A	MANIFOLD=5 FLUSH 36/42Q'S	X
	Z	SA 09 047	COVER=SUPPLY INJECTOR	X (CONTAINS ITEMS 2-3)
-----COMPONENTS-----				
X	1	Y2 09096R	*SUP-CHOTE 5FLUSH RWP+	
Z	2	02 09182	LID=SUPPLY INJECTOR	
Z	3	02 09105	HINGE=VALVE ENCLOSURE STNSTL	
V,W	4	02 09113	SUPPLY CHUTE SHELL GASKET	
X	5	W2 11953	*WLDMT=INJECTOR TUBE ENCL RWP	
V	6	02 10266B	BRACE SUPPLY INJECTOR 42RWPE	
W	6	02 10266C	BRACE-SUPPLY INJECTOR 36RWPE	
	7	5SLOGBEL	NPTELB 45DEG STRT 3/8 BRASS125	
	8	5SCC0GBE	NPT COUP 3/8 BRASS 125# 103A-C	
	9	27A040	HOSE CLAMP 5/16-7/8 SS SCR	
	10	51E505	HOSESTEM BRASS 3/8H XMPT	

Flushing Manifold - 5 Compartment Supply

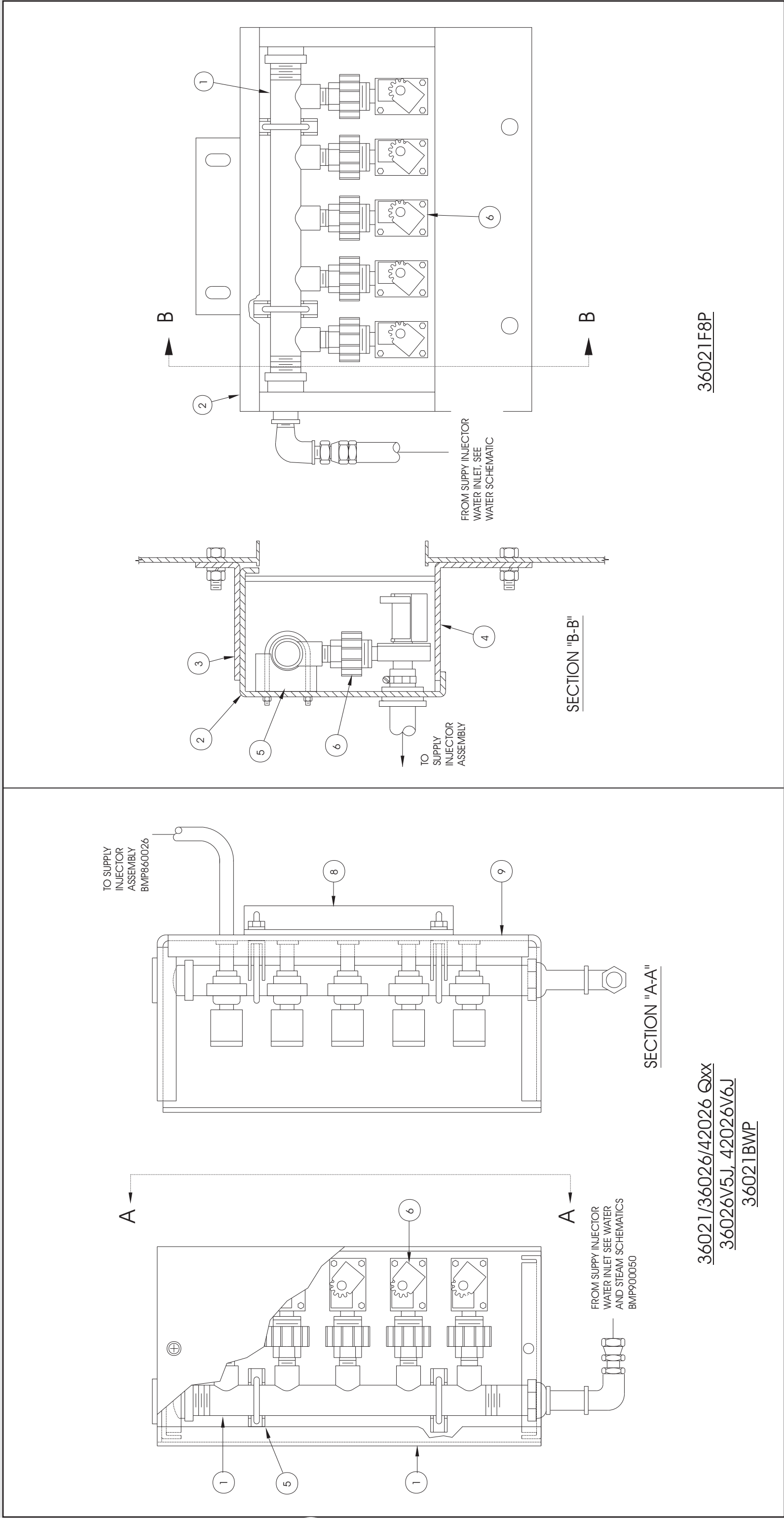
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BMP900019/2012383B
(Sheet 1 of 2)



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36021/36026/42026 Qxx
36026V5J, 42026V6J
36021BWP

36021F8P



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Parts List—Flushing Manifold

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-----				
	Y	AWI14001	ASSY=FLUSH MAN 5SUP F8P 120V	36021F8P
	Z	AWI11007A	MANIFOLD=5 FLUSH 36/42Q'S	36021/36026/42026QXX 36021/36026V5J, 36026V7J,42026V6J 42030V6J, 3621BWP
-----COMPONENTS-----				
		1	W2 11950S	*WLDMT=MAINFOLD-SUPPLY INJ SS
Y		2	02 11952	HOUSING-SUPPLY VALVES
Y		3	02 14730	+FLUSH MNT BRKT TOP
Y		4	02 14730A	+FLUSH MNT BRKT BOTTOM
		5	02 11954	BKT-3/4" PIPE SUPPORT
		6	96P013G37	3/4" 2WAYPLASTCVAL 120V60C
Z		7	02 11952	HOUSING-SUPPLY VALVES
Z		8	02 14833	SUPPLY BRACE 3621 RWP
Z		9	02 11955	REAR PL.-SUPPLY VALVE HSNQ

Water Piping Assemblies

7

Schematic Symbols Key

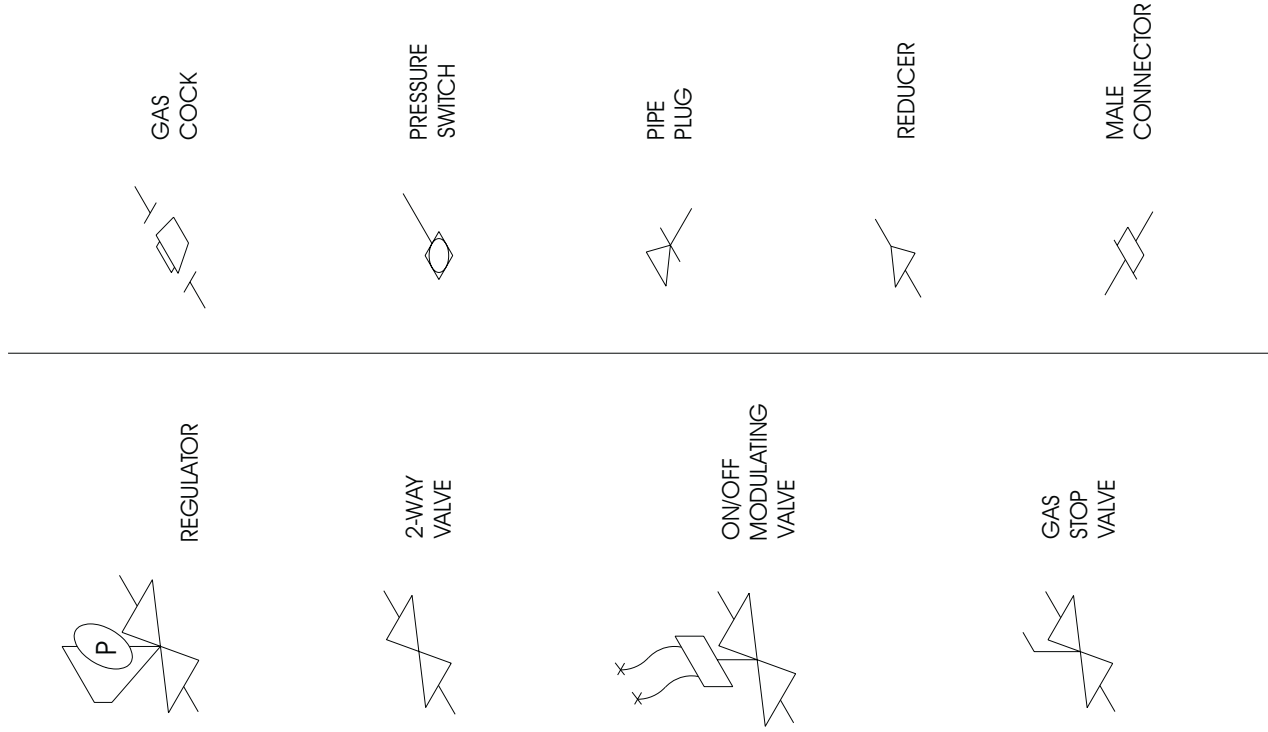
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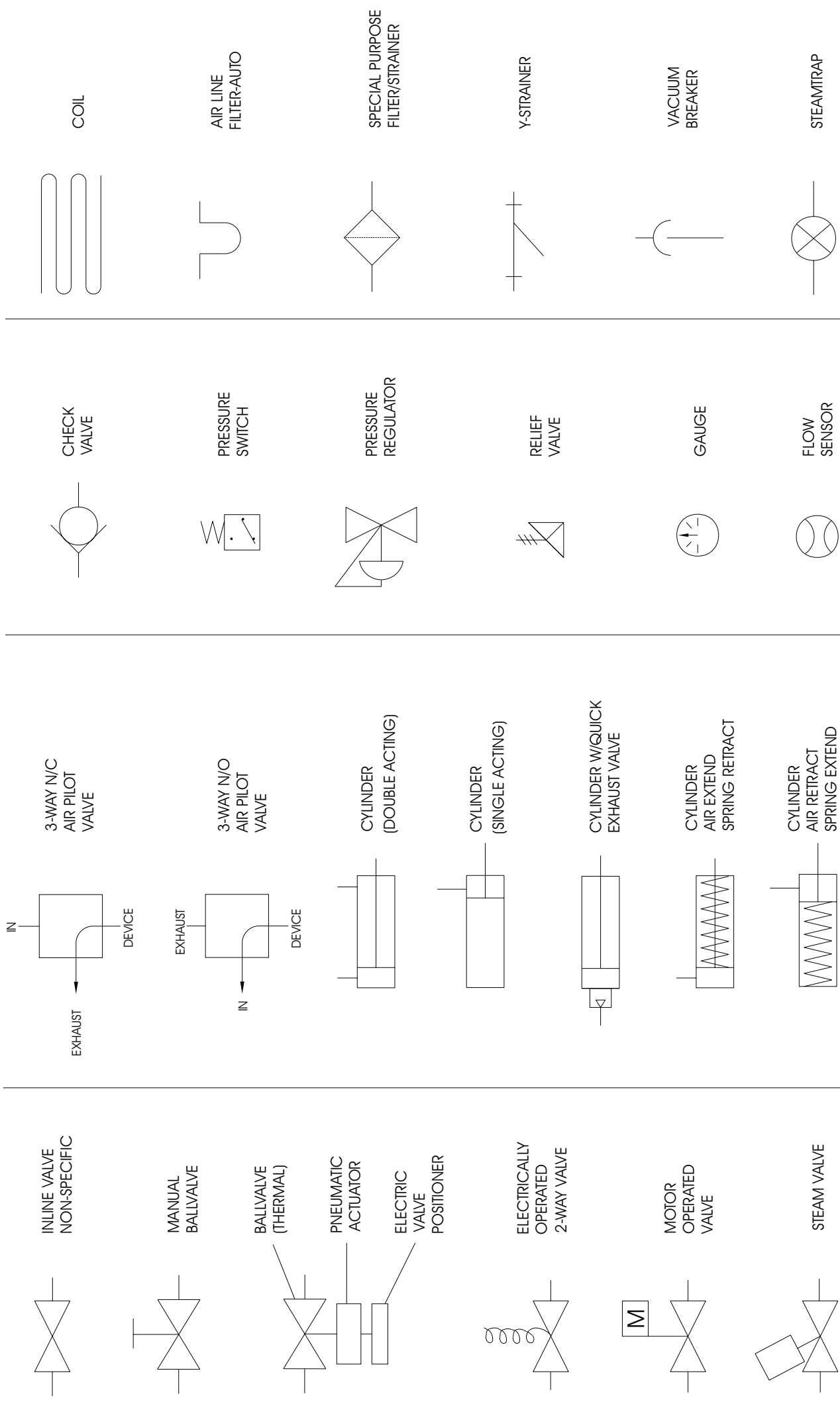
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ISOMETRIC SYMBOLS



STANDARD SYMBOLS



Water Schematic

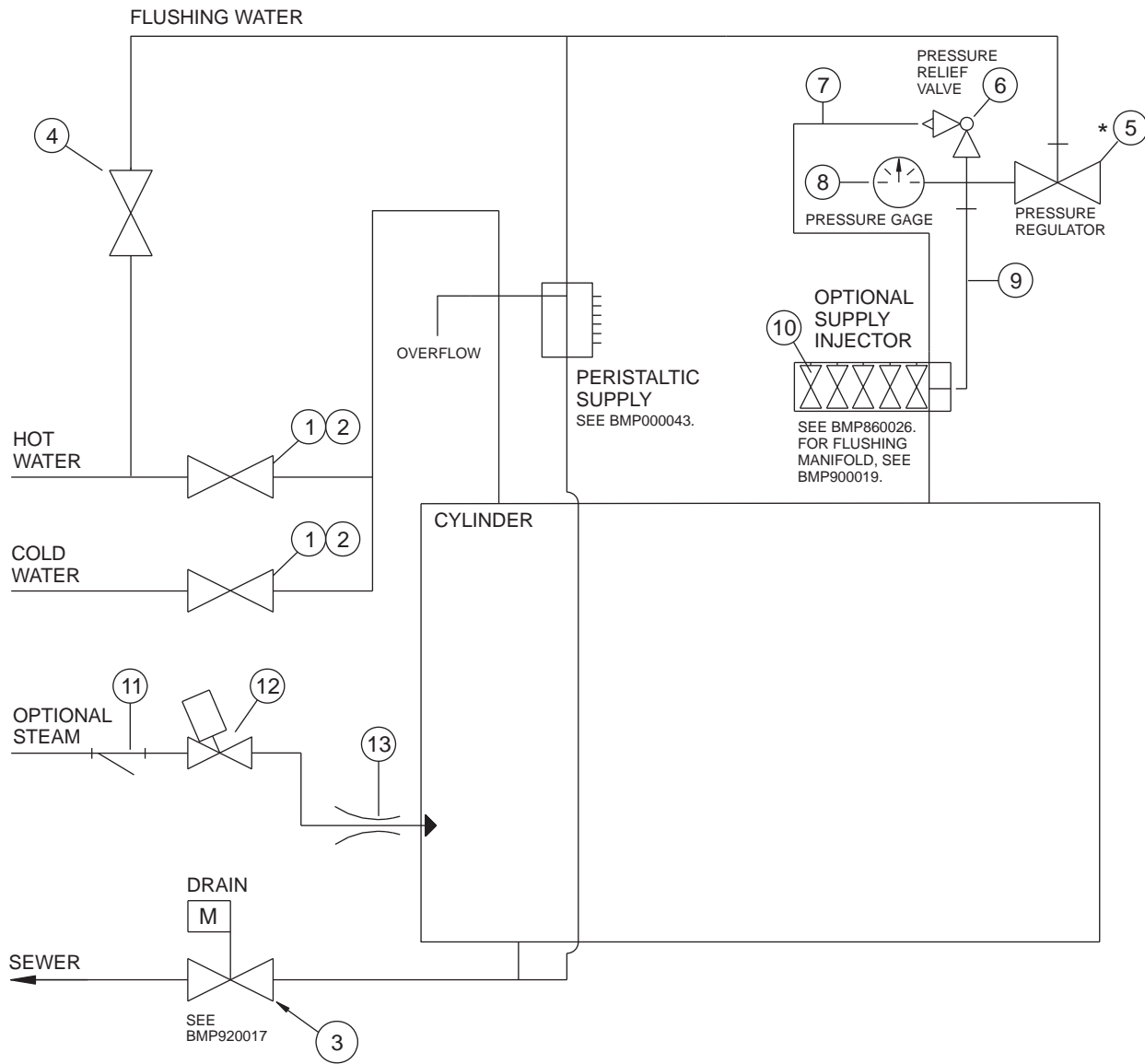
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BMP120032/2012383A
(1 / 2)



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* - Pressure regulator must remain set at the factory setting of 28PSI. See BMP900031 for maintenance procedures.



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Parts List—Water Schematic

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	AVW14822A	36V5 H+C H20 VALASSY-ELECT	36021V5J,36026V5J
	B	AVW14822	36VU H+C H20 VALASSY-ELECT	36021V7J,36026V7J
	C	AVW11912V	4226V 1.25ELECT H20 VALVE ASSY	42026V6J, 42030V6J
AB	D	GWS14802	INSTAL=SUPPLY INJ ASSY 36RWP	
C	E	GWS119002	INSTAL=SUPPLY INV ASSY RWP	
-----COMPONENTS-----				
AB	1	96P056C37	3/4"NC 110V PARKER #12F24C2248AAFPH05	
C	1	96P152A37	1+1/4"NC 110V W/LEADS BURKERT #US10360	
AB	2	96P042VA37	DIN CONNECTOR W/CABLE BURK	not used 42026V6, 42030V6
all	3	96D350A37C	DRNVAL 3"N/O 120V50/60C W/COVER	
all	4	96P058A37	1/4"NPT X 1/8"ORIFICE 120V 5/6	
all	5	96J030FF	1/2"PRESSREG SET 28# FEMXFEM	
all	6	96M001	1/2X3/8" RELIEF VALVE SET31#	
all	7	60E004TE	1/4"OD X.170"ID NYL(BLK)TUBING	
all	8	30N100	PRESSGAUGE 1/8"BACKCN.0-30PSI	
all	9	60E085C18K	HOSE ASSY=1/2"X18.5"LG+ENDS	
all	10	96P013G37	3/4" 2WAYPLASTCVAL 120V60C	
all	11	51T030	Y-STRAINER 3/4" CAST IRON	
all	12	96P040A37	3/4"STEAMVAL120V50/60C 150PSI	
A	13	AVS14806	36V5J STEAM NOZZLE ASSY 3/4"	
BC	13	AVS14805	*STEAM NOZZLE ASSY 3/4"	

Water Inlet Assemblies

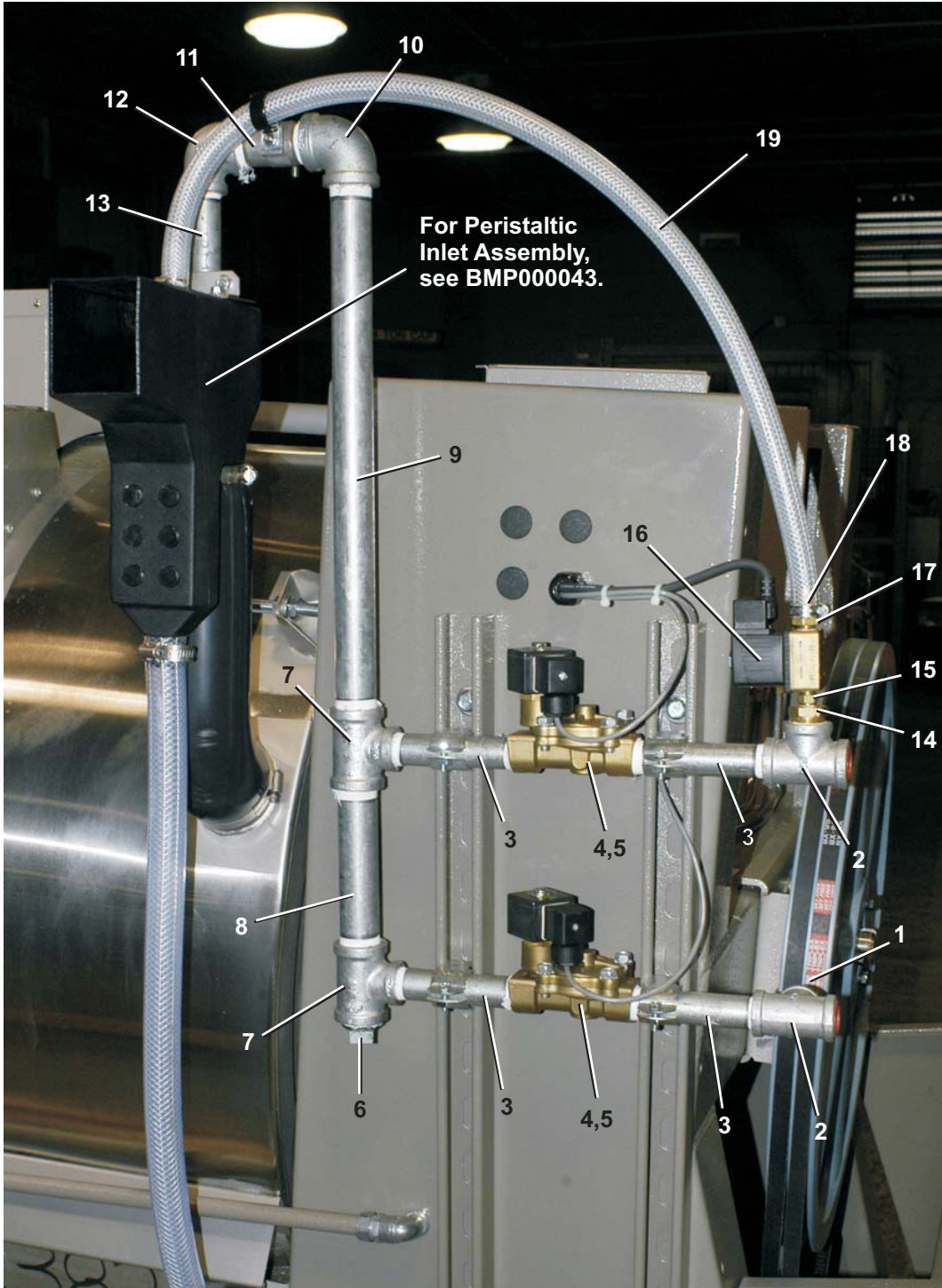
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BMP120030/2012383A
(1 / 4)



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36021V_, 36026V_

Water Inlet Assemblies

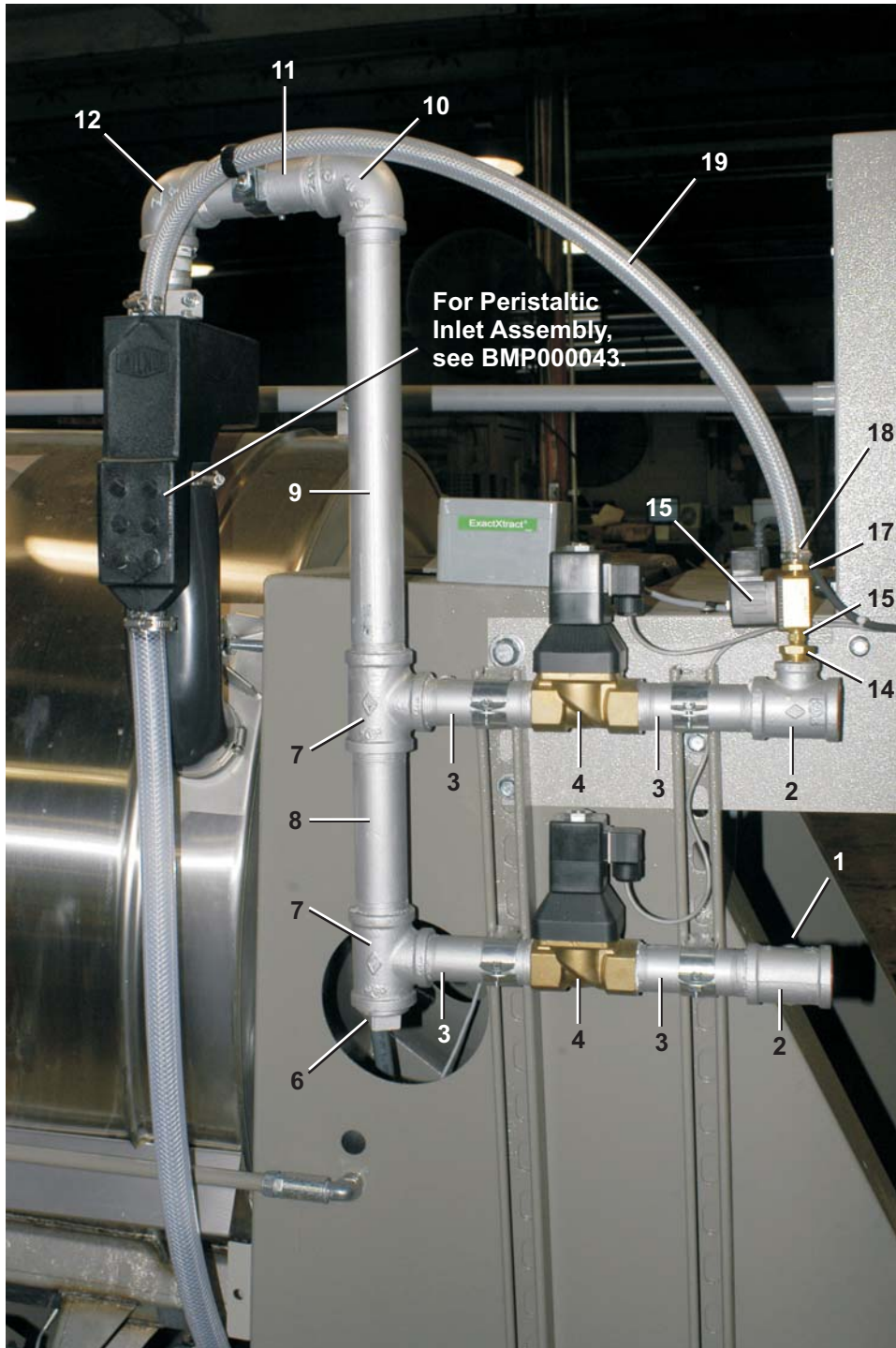
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42026V_, 42030V_

Water Inlet Assemblies

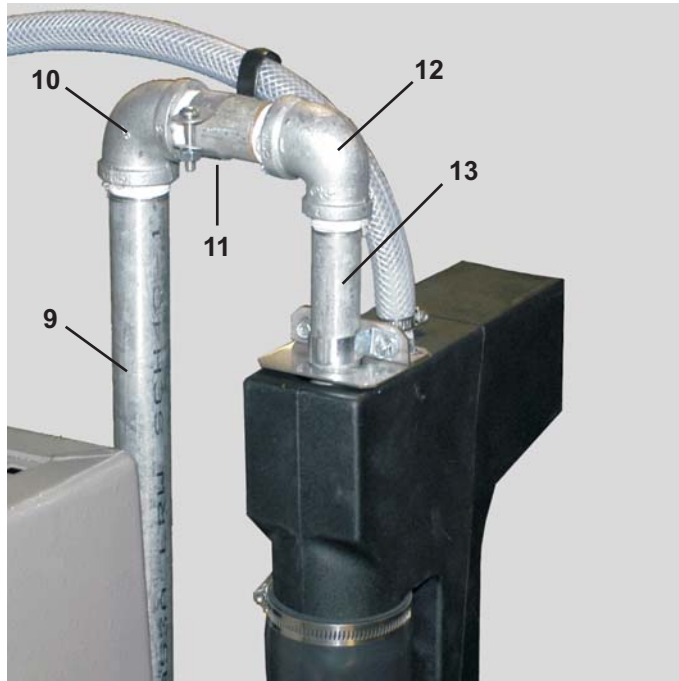
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(3 / 4)

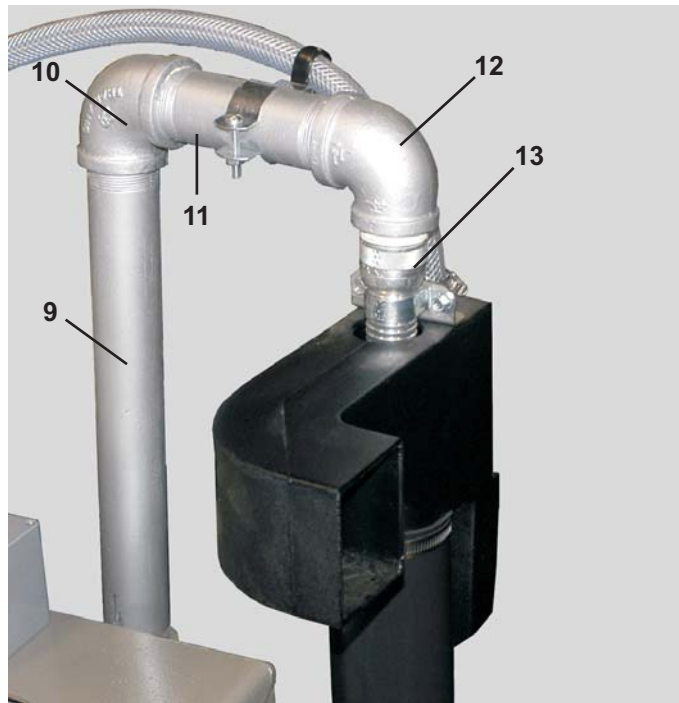


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36021V_, 36026V_



42026V_, 42030V_



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Parts List—Water Inlet Assemblies

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	AVW14822	36VU H+C H20 VALASSY-ELECT	36021V7J, 36026V7J
	B	AVW14822A	36V5 H+C H20 VALASSY-ELECT	36021V5J, 36026V5J
	C	AVW11912V	4226V 1.25ELECT H20 VALVE ASSY	42026V6J, 42030V6J
-----COMPONENTS-----				
	all	1	5SP0PHFSS	NPT PLUG 3/4 SQ SOLID STL/ZINC
	AB	2	5S0PNFA	NPT TEE 3/4" GALMAL 150#
	C	2	5S1ENFA0P1	NPTTEE 1.25X1.25X3/4 GALMA150#
	AB	3	5N0P05AG42	NPT NIP 3/4X5 TBE GALSTL SK40
	C	3	5N1E05AG42	NPT NIP 1.25X5 TBE GALSTL SK40
	AB	4	96P056C37	3/4"NC 110V PARKER #12F24C2248AAFPH05
	C	4	96P152A37	1+1/4"NC 110V W/LEADS BURKERT #US10360
	all	5	96P042VA37	DIN CONNECTOR W/CABLE BURK
	AB	6	5SP1ADESC	NPT PLUG 1" SQ CORED GAL CI
	C	6	51P055	NPTPLUG 1.5 SQCORED GALCI 125#
	AB	7	5S1ANFA0P1	NPT TEE 1X1X3/4" GALMAL 150#
	C	7	5S1KNFA1E1	NPTTEE 1.5X1.5X1.25 GALMAL150#
	A	8	5N1A08AG42	NPT NIP 1X8 TBE GALSTL SK40
	B	8	5N1A06KG42	NPT NIP 1X6.5 TBE GALSTL SK40
	C	8	5N1K07AG42	NPT NIP 1.5X7 TBE GALSTL SK40
	A	9	5N1A16AG42	NPT NIP 1"X16"GALVSTL SCH40
	B	9	5N1A17RG42	NPT NIP 1X17.875TBE GALSTL S40
	C	9	5N1K16AG42	NPT NIP 1.5X16 TBE GALSTL SK40
	AB	10	5SL1ANFA	NPT ELBOW 90DEG 1" GALMAL 150#
	C	10	5SL1KNFA	NPT ELBOW 90DEG 1.5" GALMAL 15
	A	11	5N1A06KG42	NPT NIP 1X6.5 TBE GALSTL SK40
	B	11	5N1A03KG42	NPT NIP 1X3.5 TBE GALSTL SK40
	C	11	5N1K06AG42	NPT NIP 1.5X6 TBE GALSTL SK40
	AB	12	5SL1ANFA0P	NPTLNB 90DEG 1X3/4 GALMAL 150#
	C	12	5SL1KNFA1E	NPTLNB 90D 1.5X1.25GALMAL 150#
	AB	13	5N0P05AG41	NPT NIP 3/4"X5"TOE GALVSTL S40
	C	13	51E099STC	DIXON 1.25KINGNIP NPTEND#STC15
	all	14	5SB0P0EBEO	HEXBUSH 3/4X1/4 BRASS 125#
	all	15	53A026A	HEXPIPNI.25X.25 AND#122A-B
	all	16	96P058A37	1/4"NPT X 1/8"ORIFICE 120V 5/6
	all	17	51E507D	HOSESTEM BRASS 1/4MPX5/8HOSEID
	all	18	27A040	HOSECLAMP 7/16-25/32SS W/SCREW
	all	19	60E007C	TUBING NYL.REINF.5/8"IDX.8750D

Steam Inlet Assembly

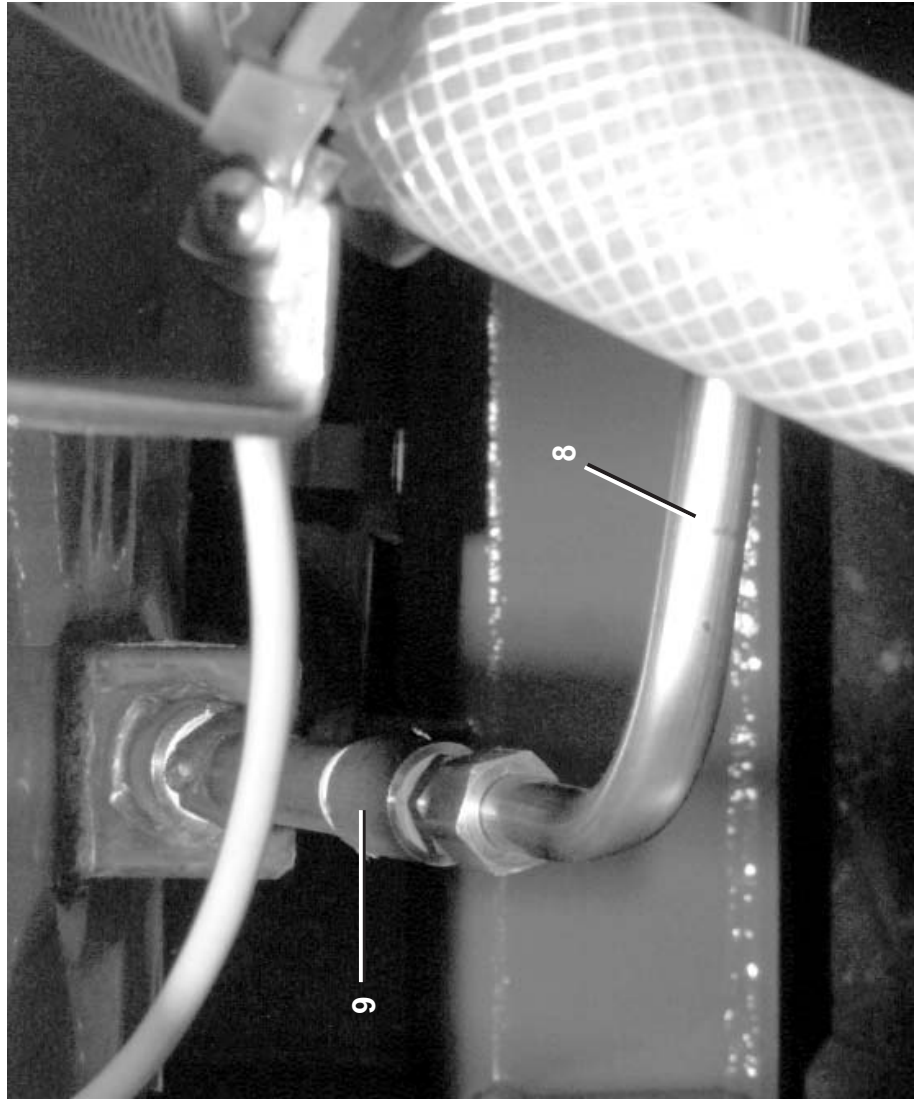
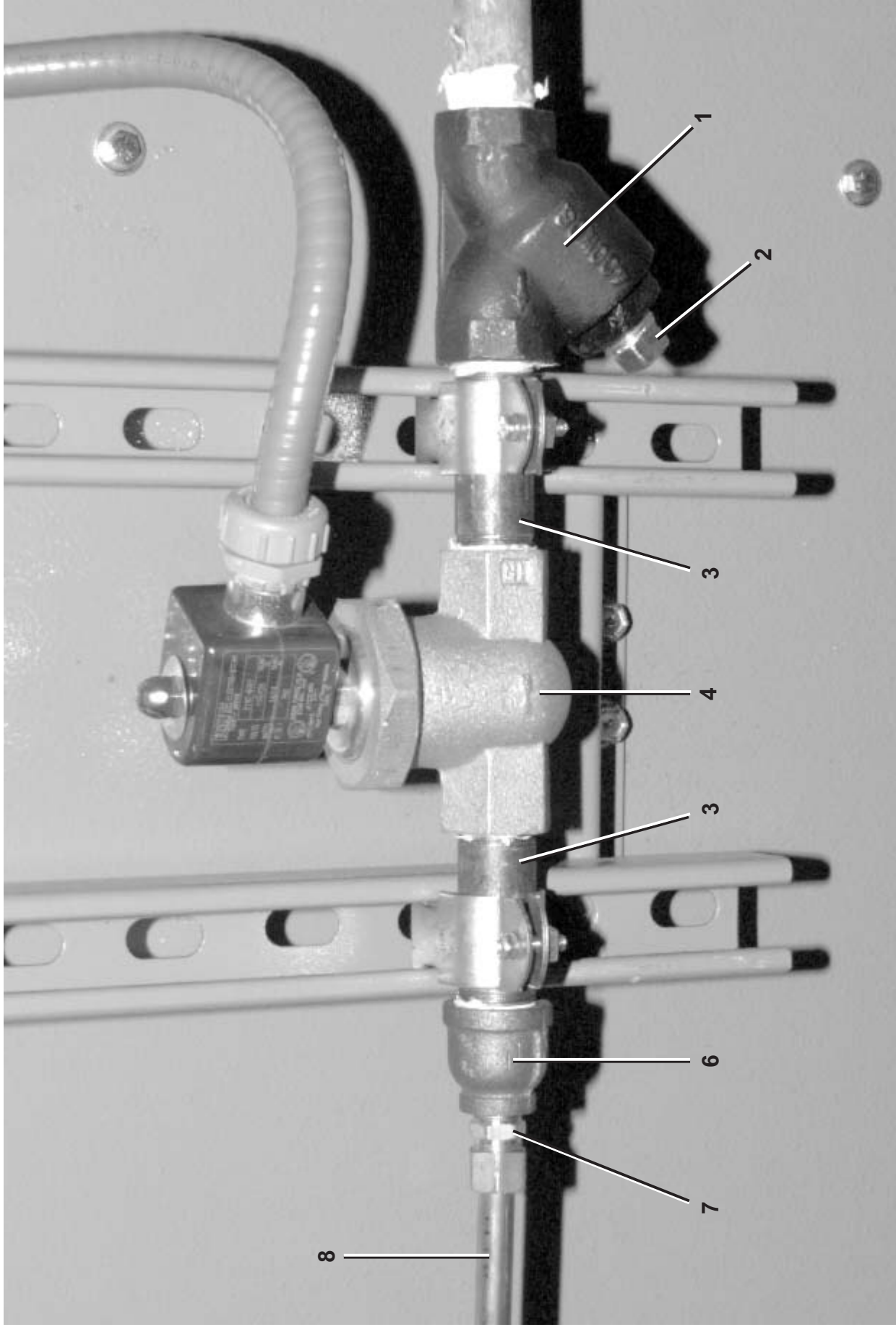
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BMP010027/2012382B
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Parts List—Steam Inlet Assembly

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		REFERENCE MODEL	36021V5J,36026V5J
	B		REFERENCE MODEL	36021V7J, 36026V7J 42026V6J, 42030V6J
-----COMPONENTS-----				
all	1	51T030	Y-STRAINER 3/4" CAST IRON	
all	2	5SP0KGFSS	NPT PLUG 1/2 SOSOLID GALSTL	
all	3	5N0P03KF42	NPT NIP 3/4X3.5 TBE BLKSTLSK40	
all	4	96P040A37	3/4"STEAMVAL120V50/60C 150PSI = HAYS#6-2192-120	
all	6	5SR0P0GMF	NPT RED 3/4"X3/8" BLK 150#	
all	7	53A025	MALECON.5X3/8COMP PH#68C-8-6	
A	8	02 14896	TUBE=STEAM PIPE 36V5	
B	8	02 11967	TUBING=STEAM INLET 36QU	
A	9	AVS14806	36V5J STEAM NOZZLE ASSY 3/4"	
B	9	AVS14805	*STEAM NOZZLE ASSY 3/4"	

Drain Valve Installation

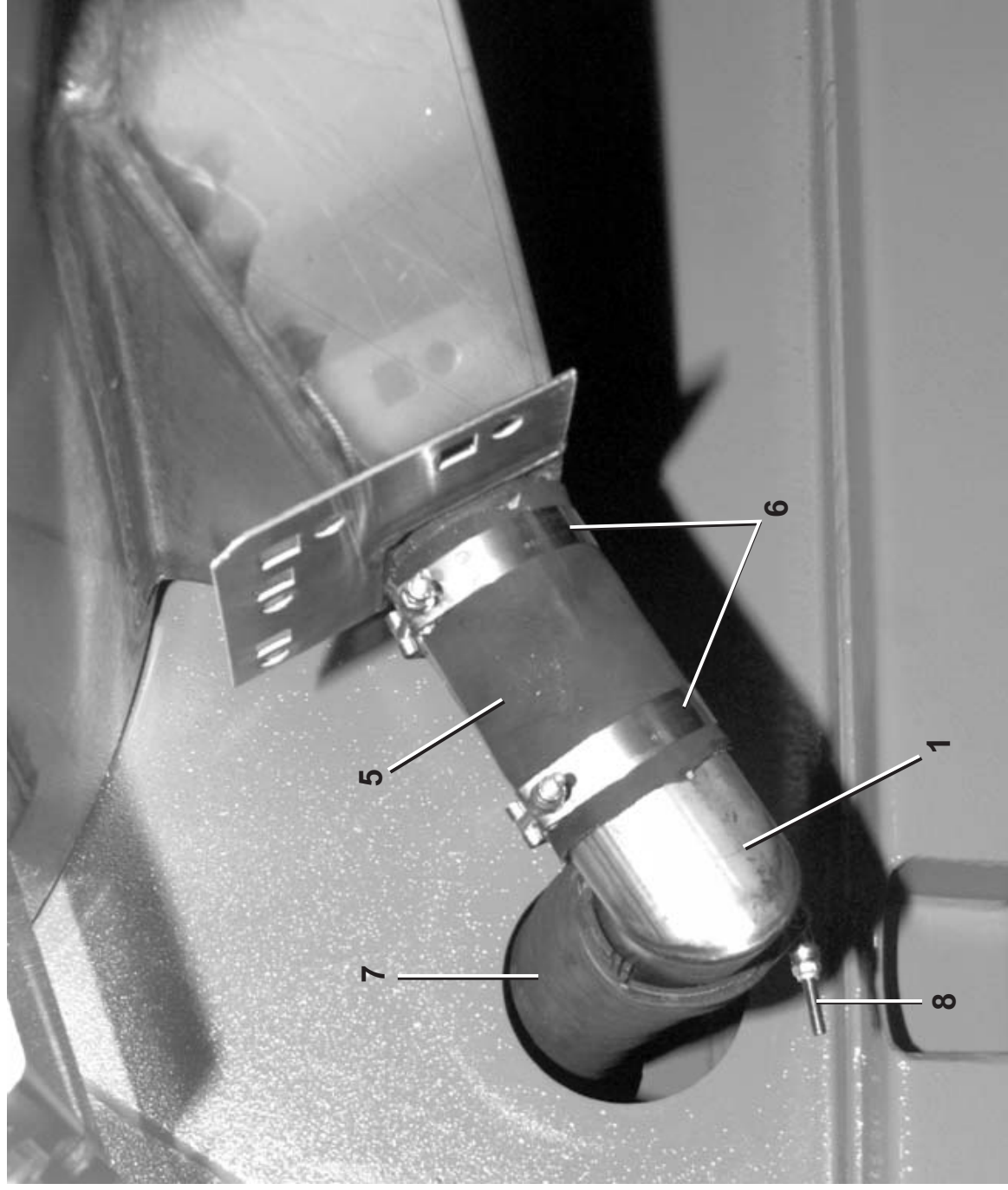
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(Sheet 1 of 2)



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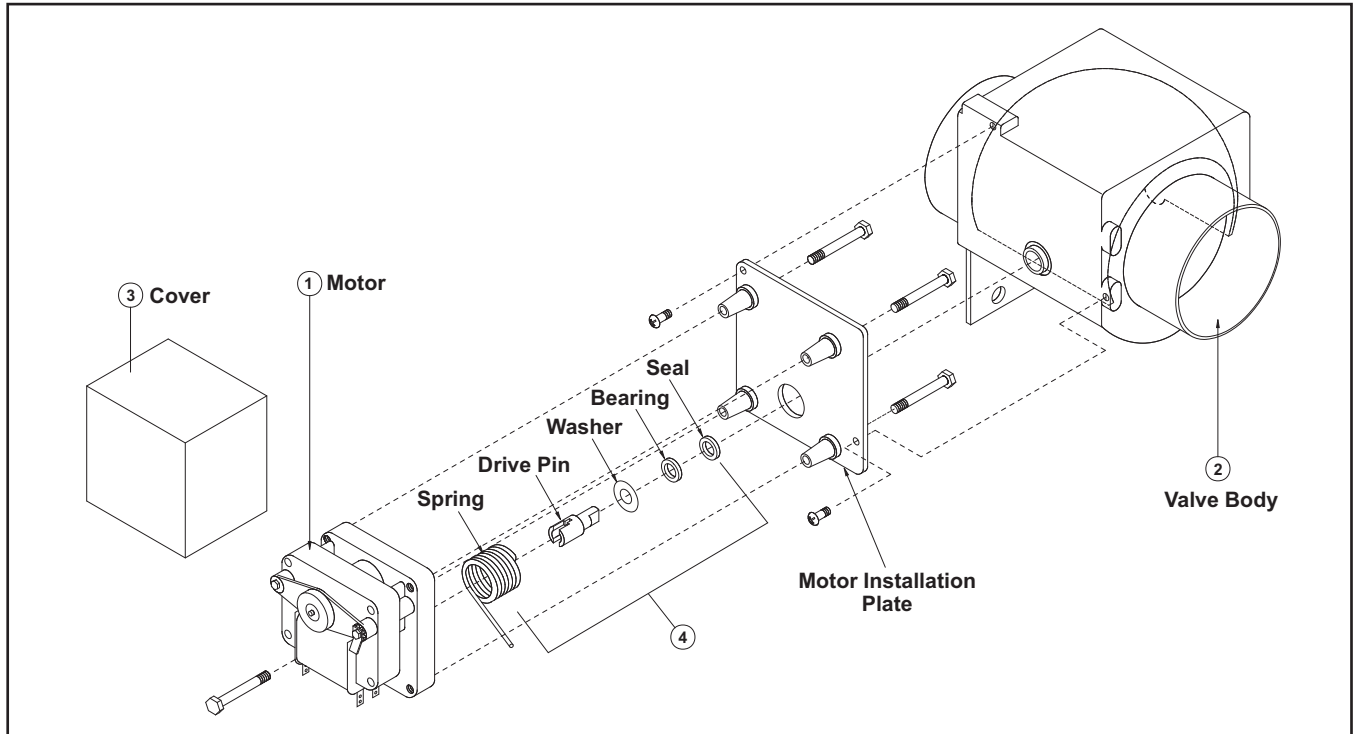
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Parts List—Drain Valve Installation

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		REFERENCE	36021V5J, 36026V5J
	B		REFERENCE	36021V7J, 36026V7J 42026V6J, 42030V6J
-----COMPONENTS-----				
all	1	W2 03974A	*WLMT=3022F8 RIGID DRAIN PIPE	
all	2	02 04197A	DUMP VALVE MT BKT	
all	3	60B075	DFW56-33PMSP RUBB CONN.	
all	4	96D350A37C	DRNVAL 3"N/O 120V50/60C W/COVER	
A	5	60E303A03K	HOSE=3"ID X 3+1/2"LG	
B	5	60E303A05A	HOSE=3"ID X 5"LG	
all	6	27A075A	T-BOLT HOSECLAMP 3.03-3.34"	
A	7	60E303A26A	HOSE=3" ID X 26 LG	
B	7	60E303A41K	HOSE=3" I.D. X 41.5 LG	
all	8	27A077A	T-BOLT HOSECLAMP 3.37-3.68"SS	
all	9	15N110H	RDWASHHD TORXBOLT M6-1X25MM ZN	
all	10	15G004HB	EXTRUNUT M6-1 GRIP 0.8-4MM	
all	11	15G004HC	EXTRUNUT M6-1 GRIP 3.5-6.5MM	
all	12	15P201	TRDCUT-F HXWASHD 3/8-16X1N1K	
all	13	15G205	HXNUT 3/8-16UNC2B ZINC GR2	

3 Inch Electric Drain Valve



Parts List—3 Inch Electric Drain Valve

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	96D350A37C	DRINVAL 3"N/O 120V50/60C W/COVER	
	B	96D350A71	DRINVAL 3"N/O MTRDR240V 50/60C	
	C	96D350B71	DRINVAL 3"N/C MTRDR240V 50/60	
-----COMPONENTS-----				
A	1	96D35MTR37	120V 50/60CMTR FOR 3"DRAINVAL	
BC	1	96D35MTR71	240V 50/60CMTR FOR 3"DRAINVAL	
all	2	96D35B0D	B0DY & BALL FOR 3" DRAIN VALVE	
all	3	96D35C0V	MTRCOVER 2-PCFOR 3"DRAINVAL	
all	4	96D35PIN	DRIVE PIN KIT FOR 3" DRAIN VAL	

Control and Sensing Assemblies

8

VIBRATION SAFETY SWITCH ADJUSTMENTS

B What the Vibration Safety Switch Does

The *vibration safety switch* pictured below is an important safety feature. If properly adjusted, the switch will momentarily actuate as a result of repeated machine movement caused by an out-of-balance condition. Table A below illustrates the effect of the *vibration safety switch* actuation.

Table A—Effect of Tripping Vibration Safety Switch

Machine Model	Function of Vibration Safety Switch
30015, 30020, and 30022	Disables high speed extract
All microprocessor-controlled washer-extractors not listed above, and all dye machines	De-energizes three-wire relay, effectively terminating machine operation

Adjustments

When the machine leaves Milnor[®], the actuator arm is tie-wrapped to prevent damage (except on 30015, 30020, and 30022 models). **This tie wrap must be removed after the machine is set into position but before the machine is operated.**

Adjustment of this switch from the factory setting is not recommended; however, it should be checked for proper functioning and adjusted if its proper setting is lost.

As shown at right in FIGURE 1, the unit consists of a *sensitive micro-switch* with an extended actuating arm supporting an eccentric weight. The weight may be adjusted by moving it up and down on the arm and by rotating it on the arm. In addition, the *micro-switch* itself may be tilted from side to side.

The sensitivity of the switch increases as the eccentricweight is raised on the actuating arm and decreases as the weight is lowered.

The unit should be adjusted so that the actuating arm will always reset by itself, this being accomplished by rotating either the switch or the weight to give just enough bias to cause the switch to reset. Check the adjustment by moving the arm to the left then slowly releasing it. Make sure the micro-switch clicks when the arm is **slowly** released, thus indicating

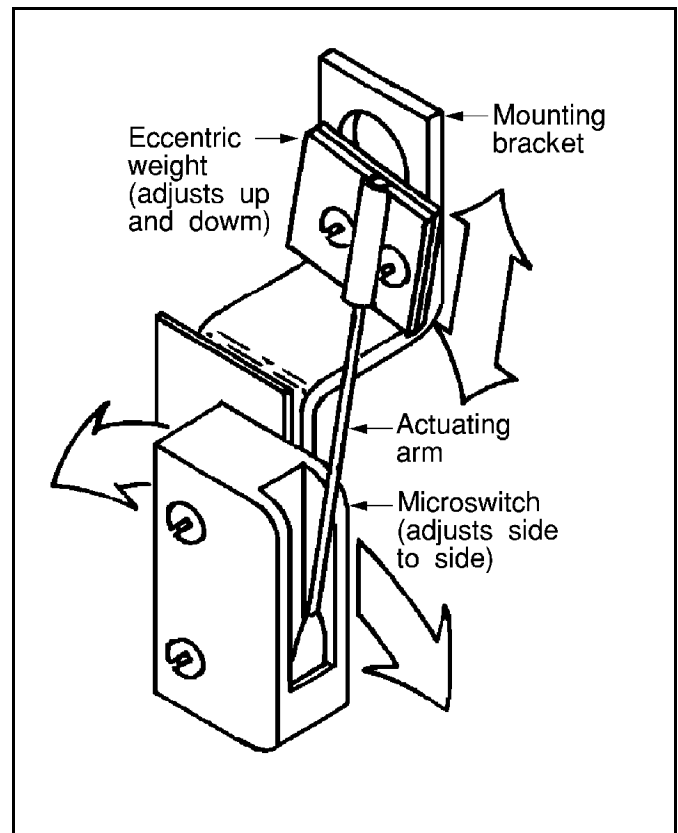


FIGURE 1 (MSSMA408BE)
Vibration Switch

that it has reset. In the released position the arm should rest **lightly** but definitely against the stop on the *micro-switch* case that prevents any further arm movement to the left.

For machines with rigid mounted shells, where the machine is bolted to a very substantial foundation, very little machine movement will occur for a given degree of out-of-balance. Under such conditions it may be better to adjust the switch to be very sensitive. With less substantial foundations (e.g., ones where the sub-soil is mushy or springy or otherwise not as desirable), considerably greater machine movement will occur for a given degree of out-of-balance, in which case a less sensitive *vibration switch* setting may be indicated.

Vibration Safety Switch



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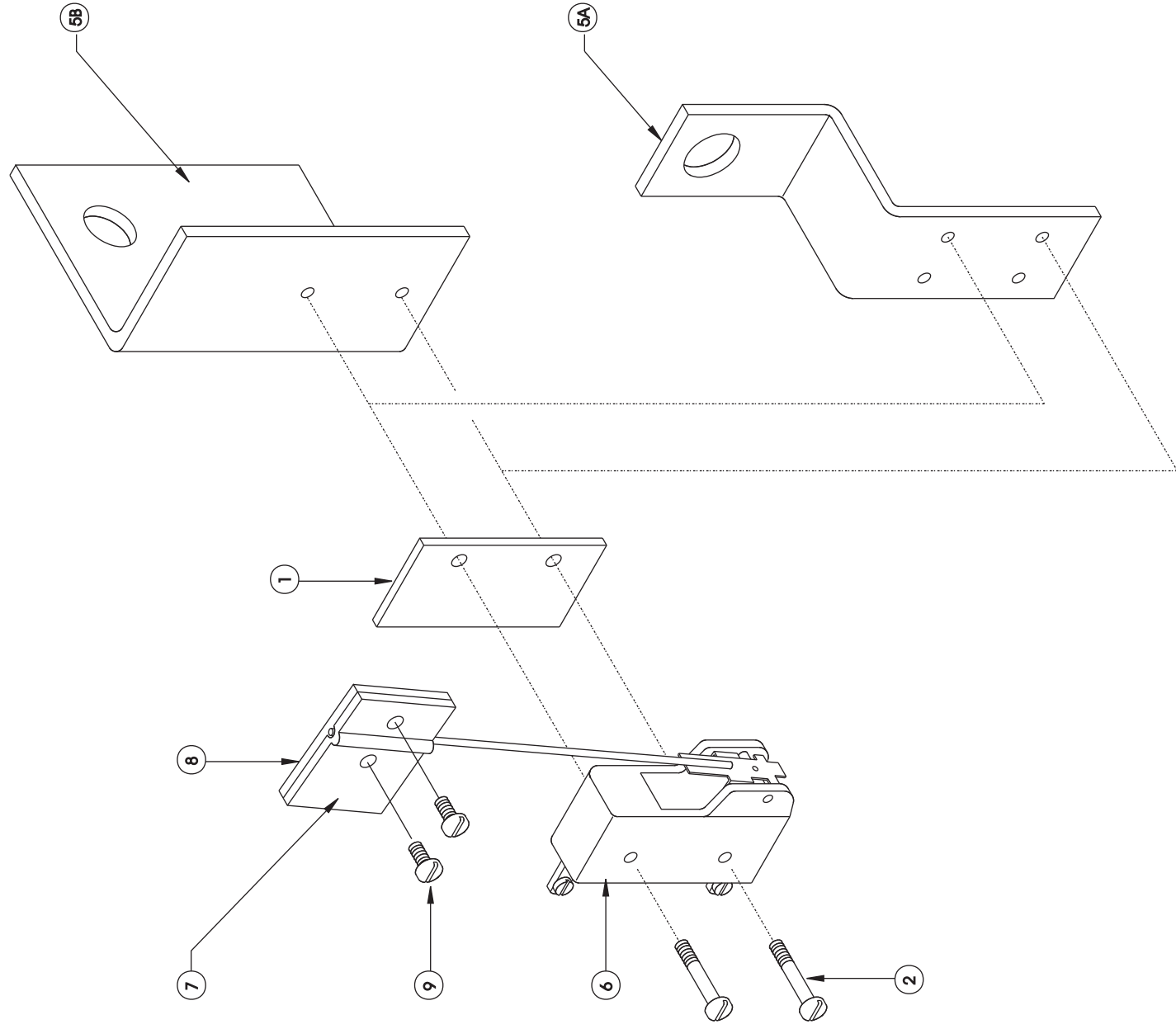
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BMP910038/2012383B
(Sheet 1 of 1)

Parts List—Vibration Safety Switch

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		SAE03 151	* ASSY-VIBRATION SWT=LG CONTR	(ALL MODELS EXCEPT BWP,CPE) 3015/22 V/T/G/F 3022F,362F, 4232F 3621,3626,4226,4230V 3022X,3626X,4226X,4232X 4244, 6044,7244WP/SP CONTAINS 001,002, 005A-009 (MODELS 3621BWP,CPE ONLY) CONTAINS 001,002, 005B-009
B		SAE03 151A	*ASSY-VIBRATION SWT=BALCOM	
-----COMPONENTS-----				
all	1	02 02038	PLATE INSULATING SMALL9NOV51	
all	2	15P008	TRDCUT PANHD 6-32X1 NIKSTL +WA	
A	5	02 15119	BRACKET=VIBSW CAD	
B	5	02 10264	BRACKET=SAFESW CAD	
all	6	09R020	SWITCH NC VIBR#WZ-2RW84429-P52	
all	7	03 01059	VIBSWITCH CLAMP CADSTL	
all	8	03 01058	VIBSWITCH WEIGHT-CADSTL	
all	9	15P101	TRDCUT-F PANHD 8-32X3/8 NIKSTL	



Temperature Probe

36021V5Z,V7Z 36026V5Z,V7Z 42026V6Z 42030V6Z



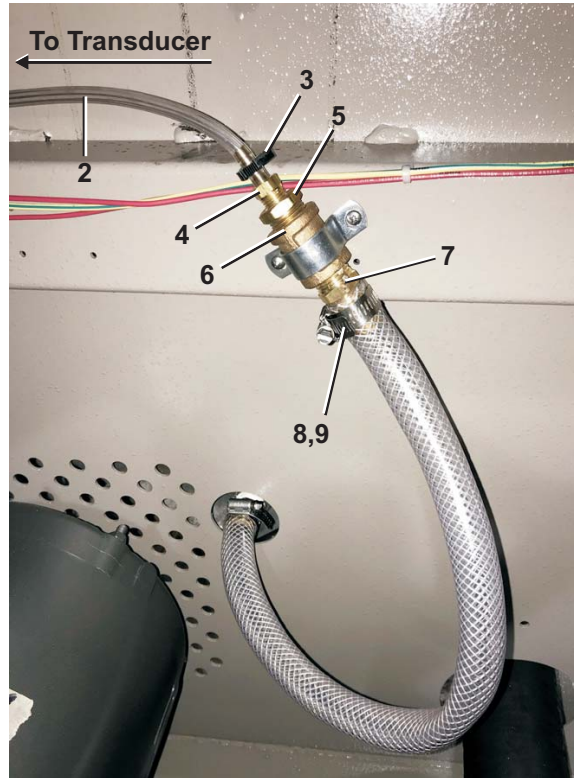
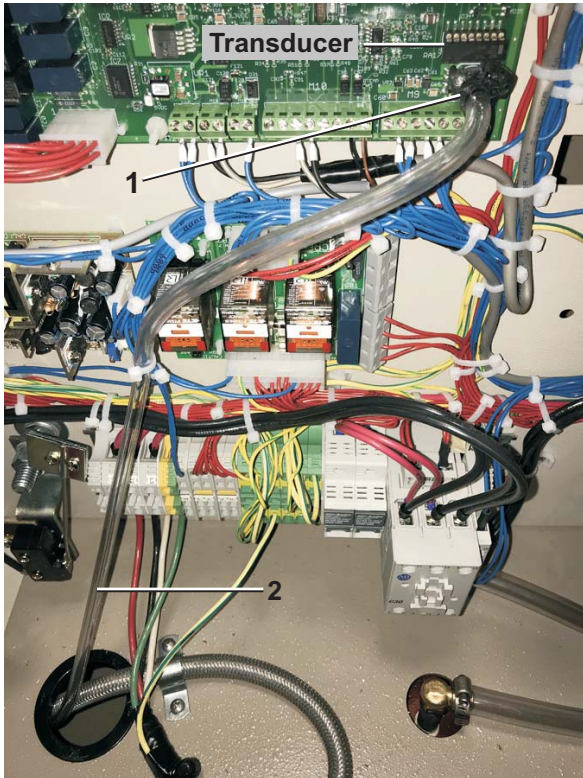
Parts List

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
-----COMPONENTS-----				
all	1	30R0043P	TEMP PROBE:THERMISTOR 30K OHMS	

Level Sensing

36021V5Z, 36026V5Z/V7Z 42026V6Z,V6Z



Level Sensing

36021V5Z, 36026V5Z/V7Z 42026V6Z,V6Z

Parts List				
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	GPS42001	INST=42/36V WATER LEVEL TUBE	
-----COMPONENTS-----				
all	1	27A047	HOSECLMP 1/8HOSEID CLIP#5000-2	
all	2	60E004NA	TUBING CLEAR PVC 3/16"IDX5/16"OD	
all	3	12P016	CABLE CLMP-BLACK UL APPROVED	
all	4	51E502D	HOSESTEM BRASS 1/4"MPX X 3/16"HOSE ID	
all	5	5SB0K0EBEO	NPTHEXBUSH 1/2X1/4 BRASS 125#	
all	6	5SCC0KBE	NPT COUP 1/2 BRASS 125#	
all	7	51E510	HOSESTEM BRASS 1/2MPX3/4HOSEID	
all	8	27A044S	HOSECLAMP 11/16-1.25SSCR#64012	
all	9	60E008A	TUBINGNYLREINF.75"IDX1.025"OD	