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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, FOB our factory. We retain the right to require inspection of the parts claimed defective in our factory prior to repairing or replacing same. We will not be responsible, or in any way liable, for unauthorized repairs or service to our equipment, and this warranty shall be void if the equipment is 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.

## 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<sup>®</sup> 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](mailto:parts@milnor.com)

— End of BIUUUD19 —

## 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: Electrocution 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 —

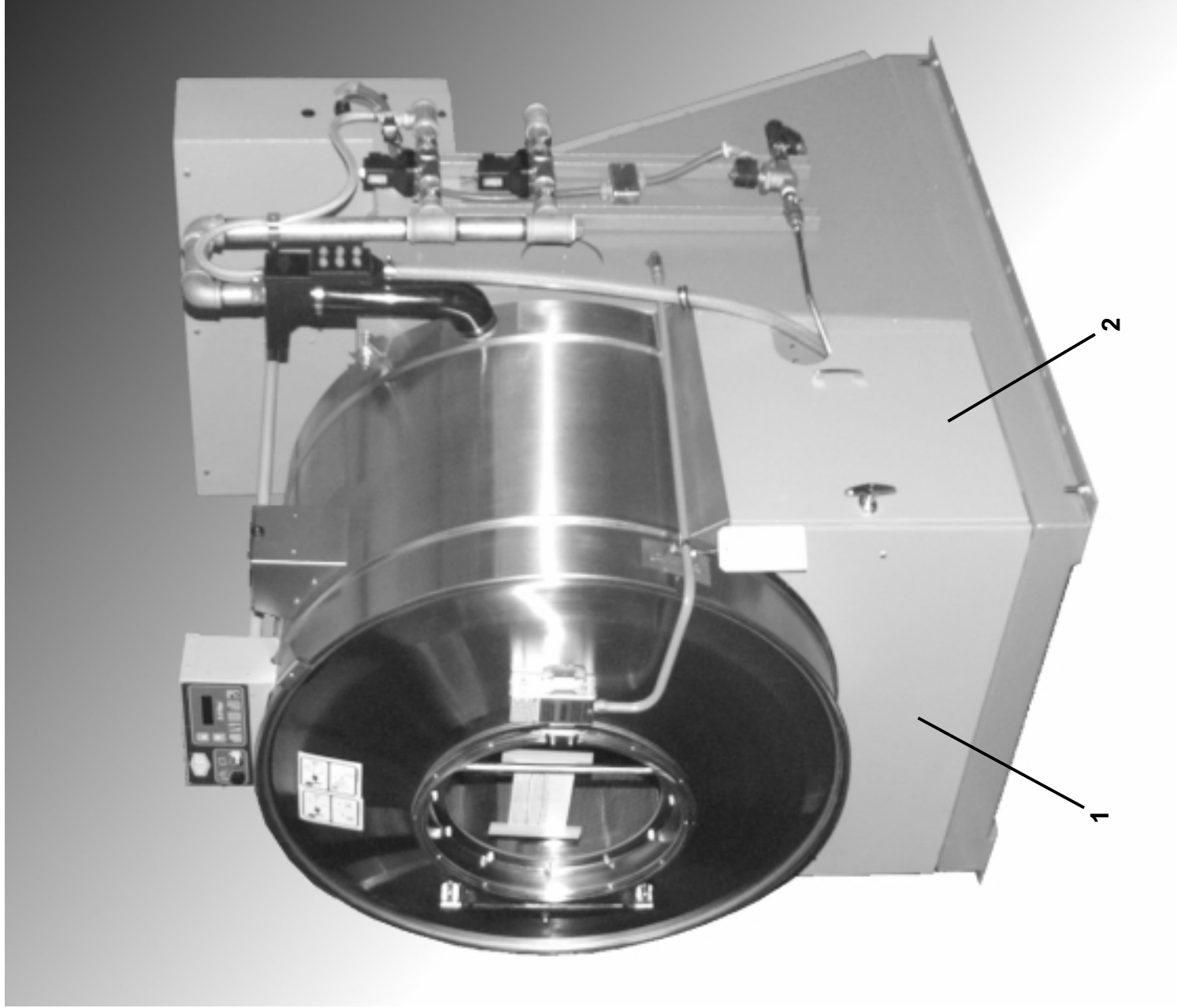
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**36026V7J,V7W 42026V6J,V6W**

BMP010013/2002022V  
(Sheet 1 of 3)

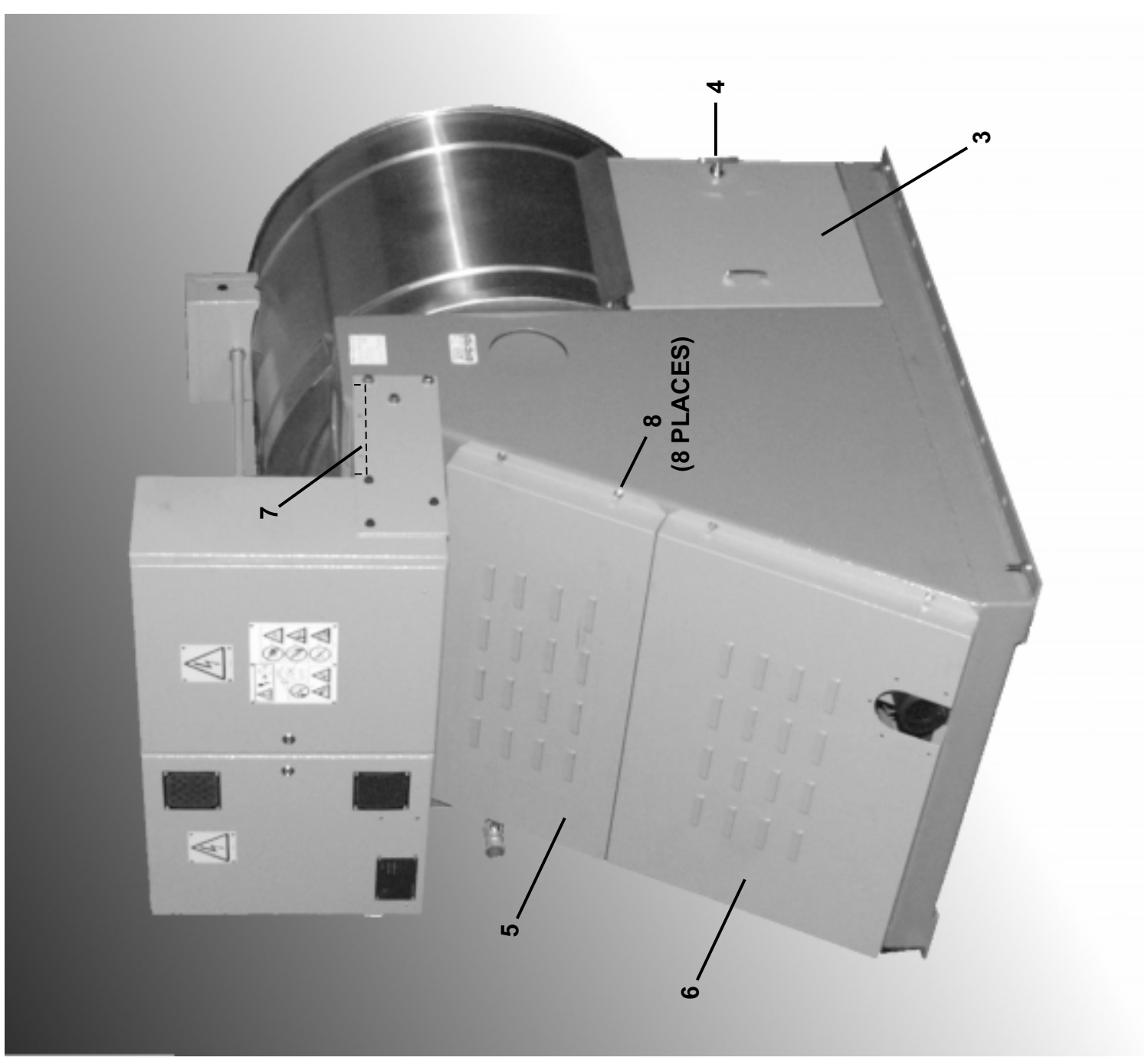


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**42026V6J**  
**SHOWN**



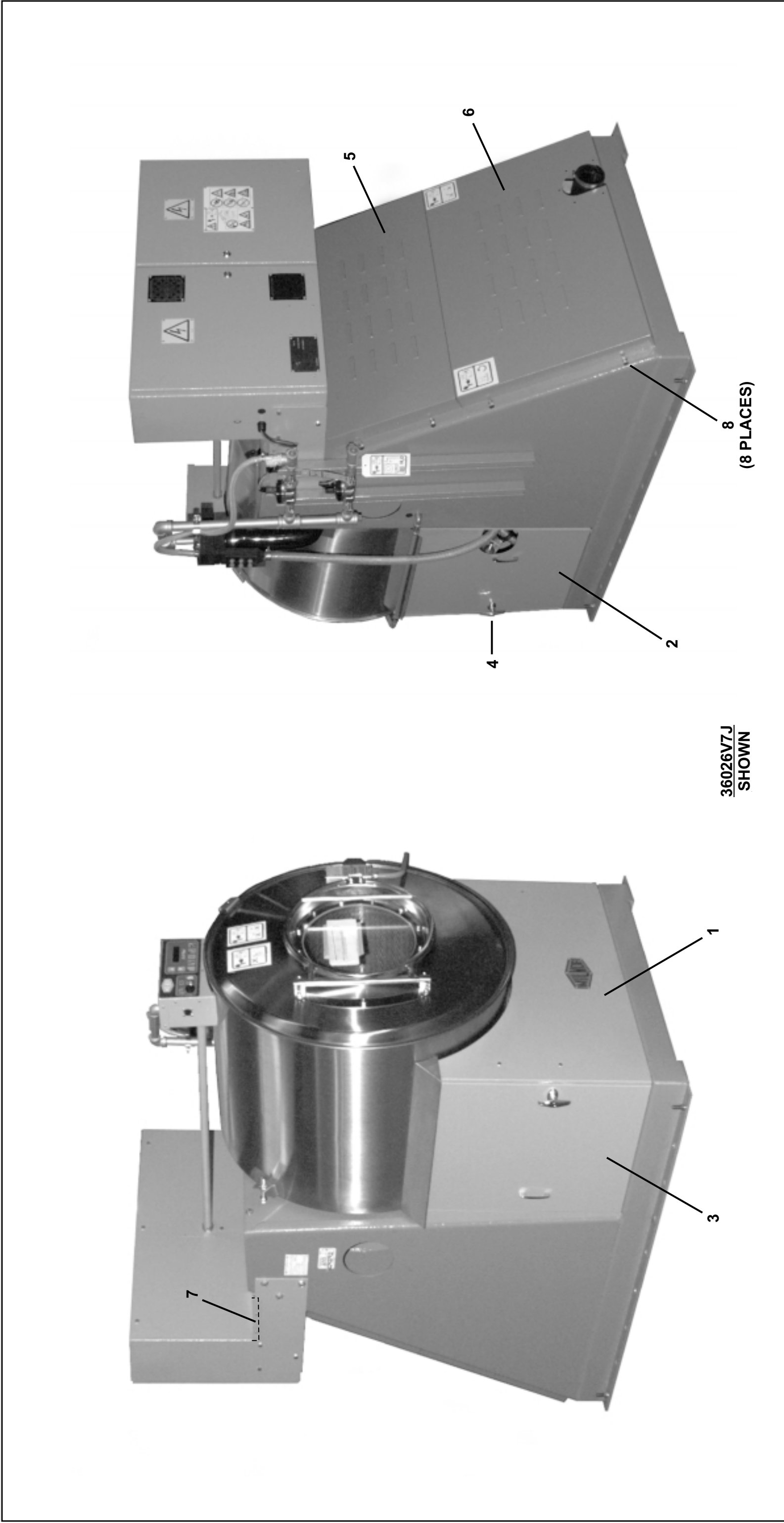
**Guards and Covers**  
**36026V7J,V7W 42026V6J, V6W**

BMP010013/2002022V  
(Sheet 2 of 3)



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

Litho in U.S.A.



**36026V7J**  
**SHOWN**



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

Litho in U.S.A.

**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	

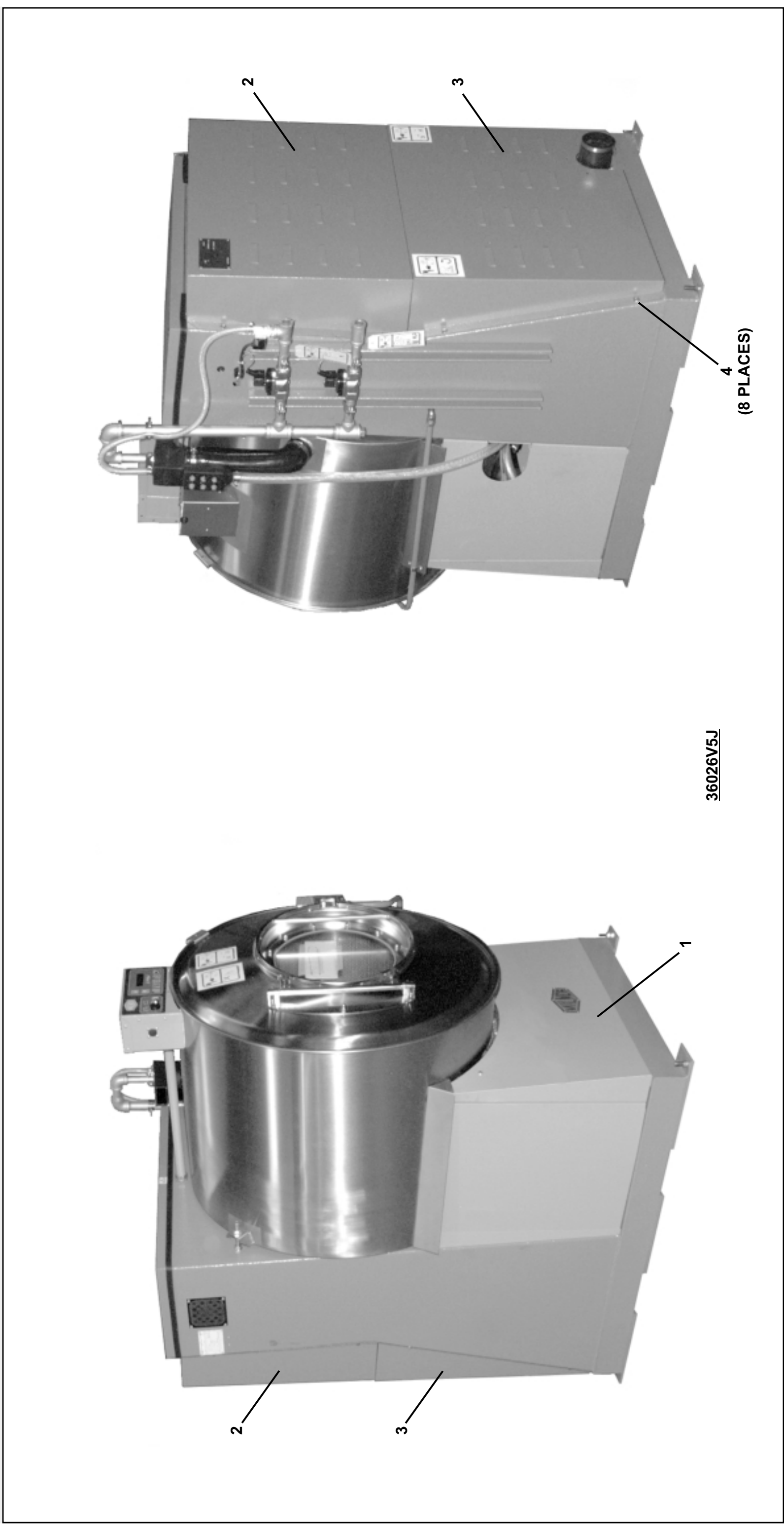
**Guards and Covers**  
**36026V5J**

BMP010034/2002103V  
(Sheet 1 of 2)



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36026V5J



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Litho in U.S.A.

**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	GG514808	GUARD + COVER INSTALL 36V5 Mk2	
			-----COMPONENTS-----	
all	1	AGS14808	FRONT COVER ASSY 36V5	
all	2	03 11064	BELTGD-UPPER REAR 36V5	
all	3	03 11065	BELTGD-LOWER REAR 36V5	
all	4	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**

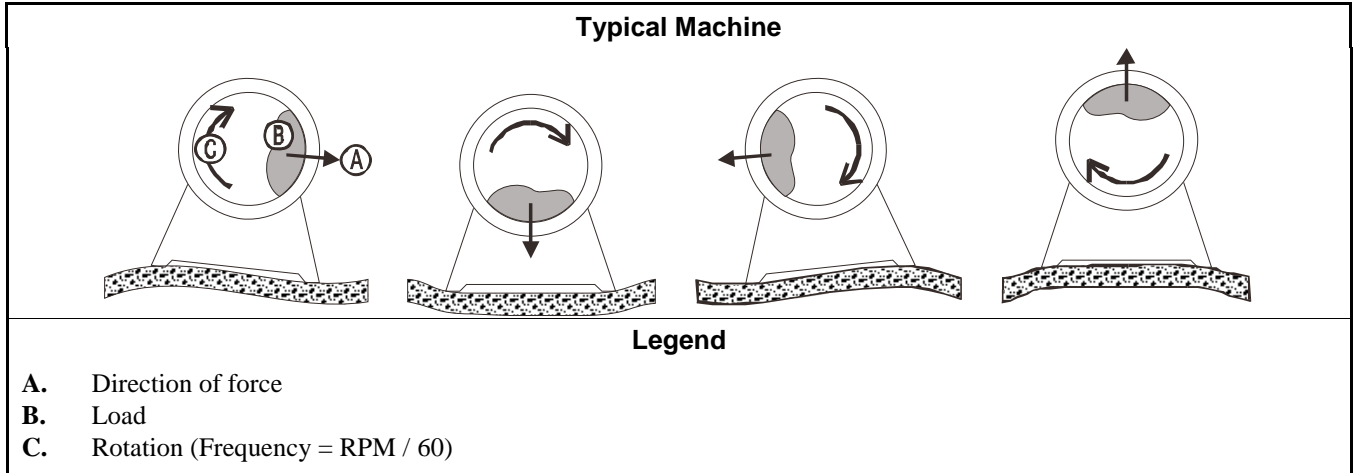


Figure 1 above is intended to depict both on-grade and above-grade installations and is equally applicable to flexibly-mounted washer-extractors, as well as to rigid models installed either directly on a floor slab or on a foundation poured integrally with the slab. Current machine data is available 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 —

## **Understanding the Tag Guidelines for the Models Listed Below**

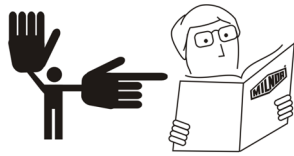
**36021C4E 36021V5J 36021V7J 36026V5J 36026V7J 36026V7W 42026V6J  
42026V6W 42030V6J**

Several installation guidelines and precautions are displayed symbolically, on tags placed at the appropriate locations on the machine. Some are tie-on and others are adhesive tags. Tie-on tags and white, adhesive tags may be removed after installation. Yellow adhesive tags must remain on the machine.

Understanding the Tag Guidelines for the Models Listed Below

Most tags contain only symbols (no words). A few are worded. The explanations below, start with the tag part number (displayed on the tag). If a tag contains no words, the meaning of the tag is explained below. If the tag contains words, the explanation below simply repeats the wording.

**Display or Action**



**Explanation**

Read the manual before proceeding. This symbol appears on most tags. The machine ships with a complete set of manuals. The safety, installation, and electrical schematic manuals are particularly important to installers.



B2TAG88005: This carefully built product was tested and inspected to meet Milnor® performance and quality standards by



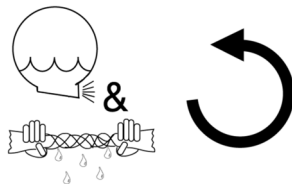
B2TAG93013: This bearing housing was lubricated at the Milnor factory before shipment. (This tag not used on 42" V models.)



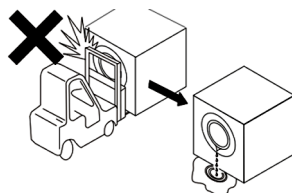
B2TAG94078: Do not forklift here; do not jack here; do not step here—whichever applies.



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.



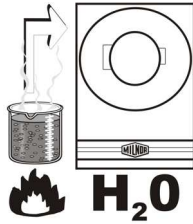
B2TAG94097: The cylinder must rotate **counterclockwise** during draining and extraction (spin) when viewed from here (rear of machine). Otherwise, reverse the electric power connections, as explained in the schematic manual.



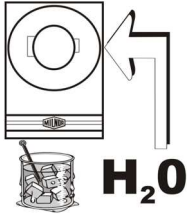
B2TAG94099: Do not strike the shell door when fork-lifting. This can cause the door to leak.

**Display or Action**

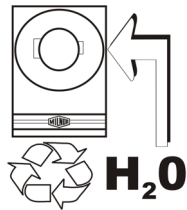
**Explanation**



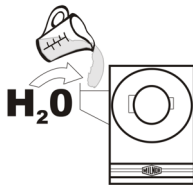
B2T2001013: Hot water connection.



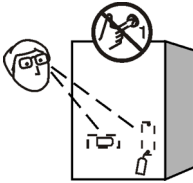
B2T2001014: Cold water connection.



B2T2001015: Reuse (third) water connection.



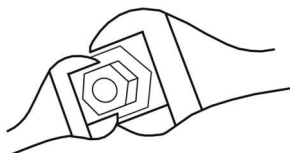
B2T2001016: Flushing water connection. This is the water that goes into the supply compartment or pumped chemical manifold to flush chemicals into the machine.



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.

Understanding the Tag Guidelines for the Models Listed Below

**Display or Action**

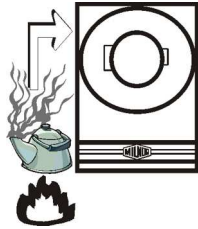


**Explanation**

B2T2003002 or 01-10710A: CAUTION: Equipment and Textile Damage Hazards—Chemicals leaked into the machine, particularly when it is idle, can destroy machine components and textiles left in the machine.

Ensure the chemical system prevents dribbling, siphoning, or any other unintentional release of chemicals.

Inspect regularly for proper operation and evidence of damage. Consult Milnor document BIWUUI03 “Avoiding Damage from Allied Remote Chemical Delivery Systems”.



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 document BIRQUM01 "Preventive Maintenance" in the service manual.

— End of BIUUI02 —

# Safety Placard Use and Placement

## 36026V5J, 36021CPE, NSP & V5J

BMP020109/2002145V  
(Sheet 1 of 2)

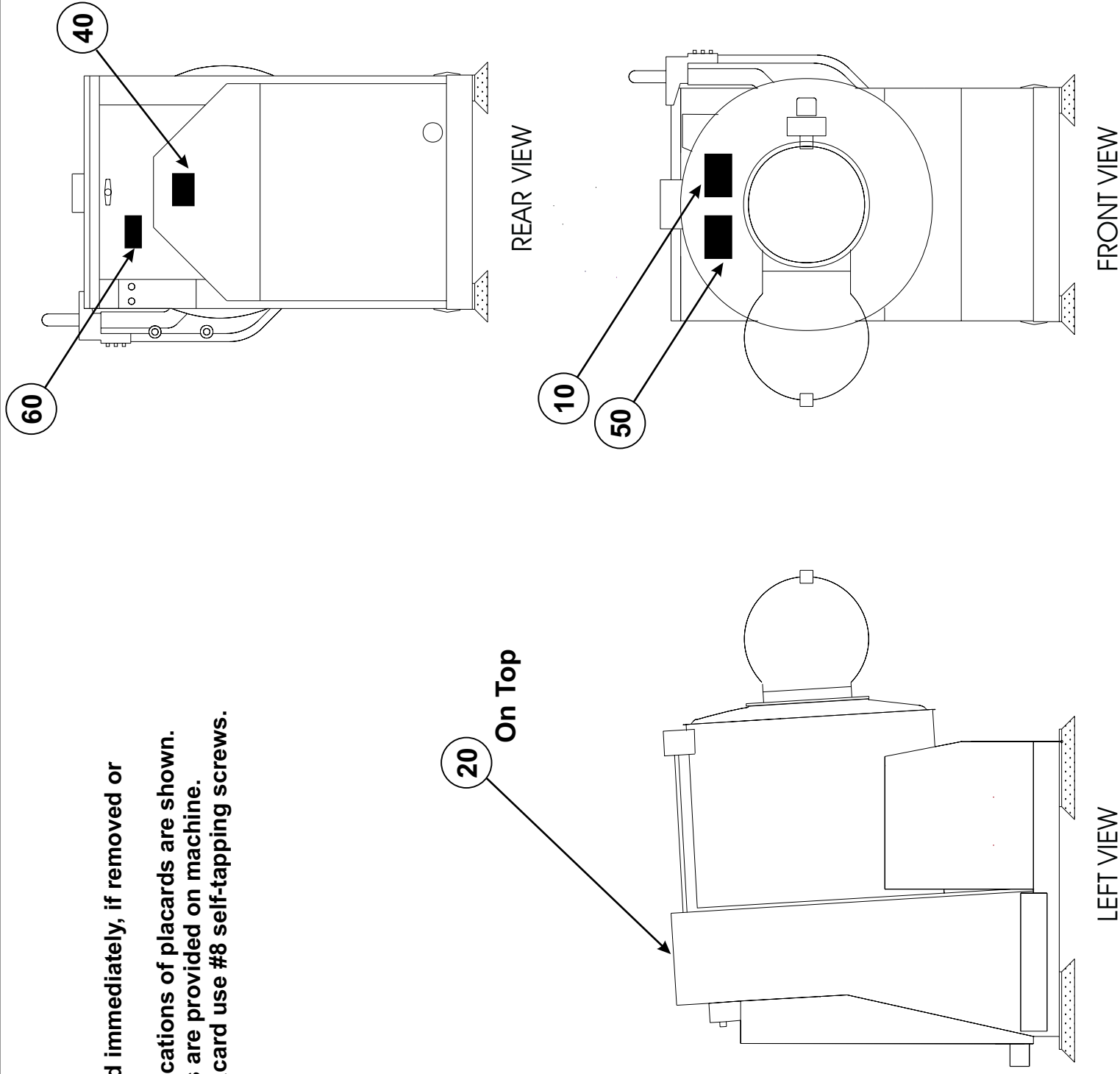


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P. O. Box 400, Kenner, LA 70063-0400

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

Litho in U.S.A.

**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	



# Safety Placard Use and Placement ISO 36026V5J, 36021CPE, NSP & V5J

BMP020110/2002145V  
(Sheet 1 of 2)



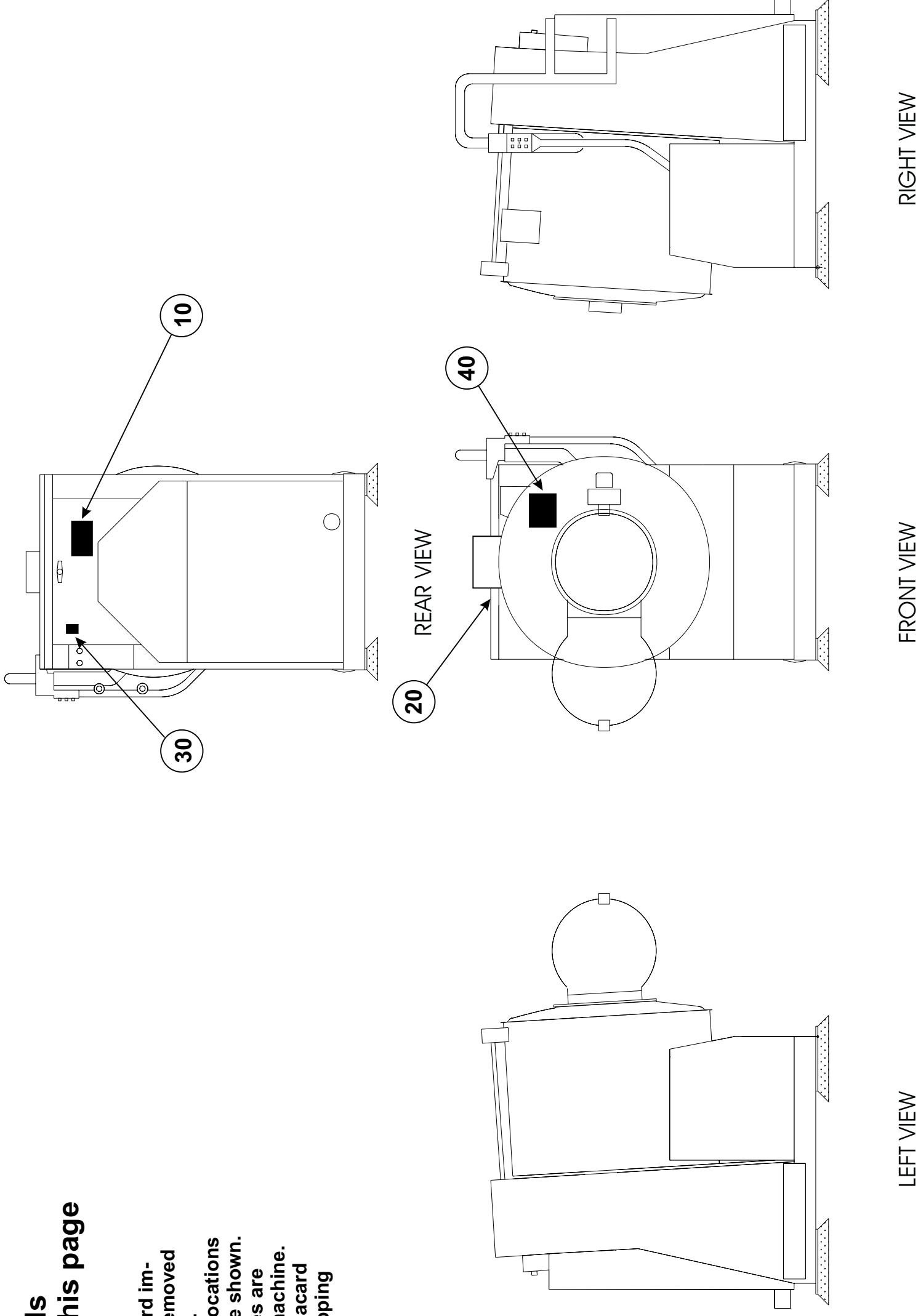
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## ISO Placards shown on this page

### 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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**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 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	

# Safety Placard Use and Placement

36021V7J, 36026V7JW & 42026V6JW, 42030V6J

BMP020111/2008425B  
(Sheet 1 of 2)

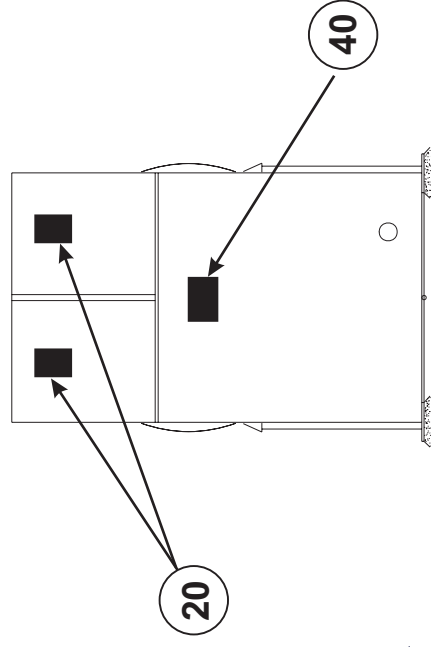


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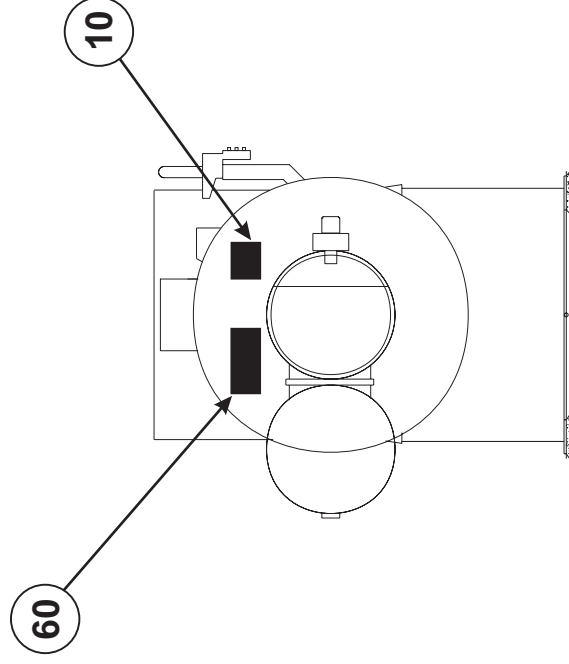
Litho in U.S.A.

### Notes:

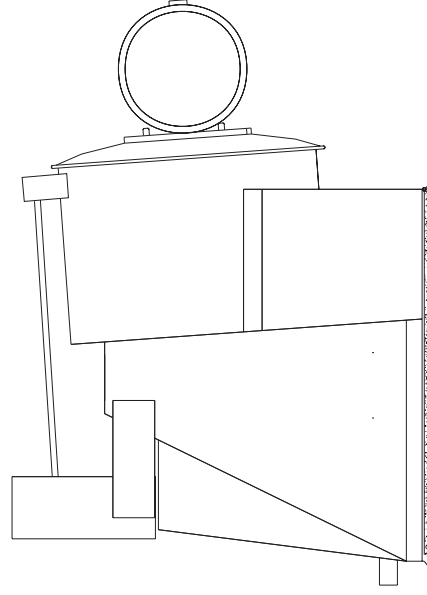
1. Replace placard immediately, if removed or unreadable.
2. Approximate locations of placards are shown. Mounting holes are provided on machine. Use #8 self-tapping screws.



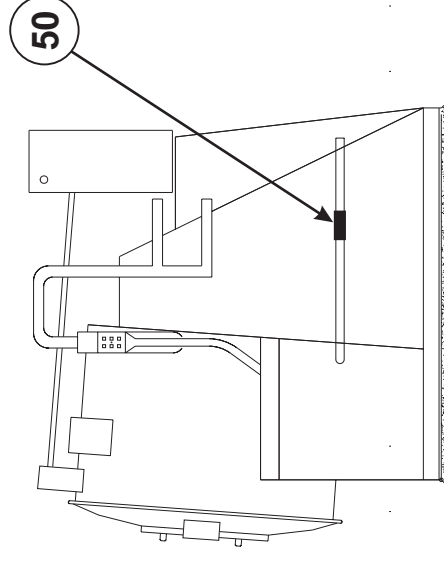
REAR VIEW



FRONT VIEW



LEFT VIEW



RIGHT VIEW



**Pellerin Milnor Corporation**  
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Litho in U.S.A.

**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 10583A	NPLT:64/72 W/E WARN FRT-TCATA	
All	20	01 10684A	NPLT:W/E TILT WARNG REAR-TCATA	
all	30	01 10599A	684T:64/72W/E WARNG SIDE TCATA	
all	40	01 10685A	NPLT:BURN HAZARD WARN-TCATA	
all	50	01 10648A	NPLT:GEAR HAZARD-TCATA	
all	60	01 10699A	NPLT:SERV HZRD-PLYEST-TCATA	
all	70	01 10377A	NPLT:ELEC HAZARD LG-TCATA	

# Safety Placard Use and Placement ISO 36021V7J, 36026V7JW & 42026V6JW, 42030V6J

BMP020112/2008425B  
(Sheet 1 of 2)



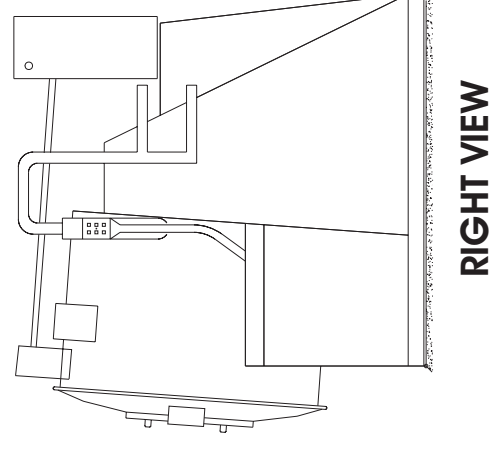
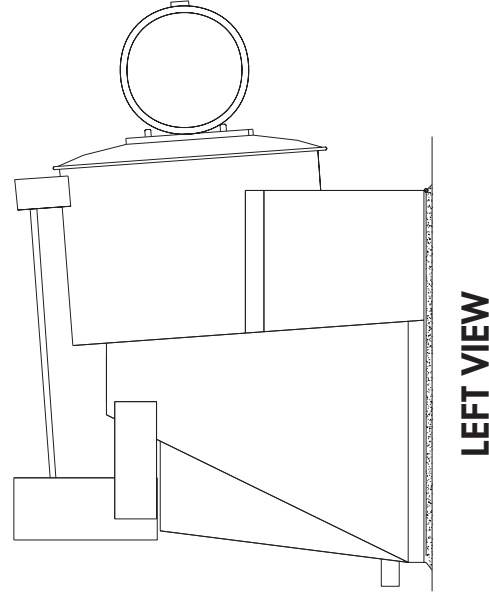
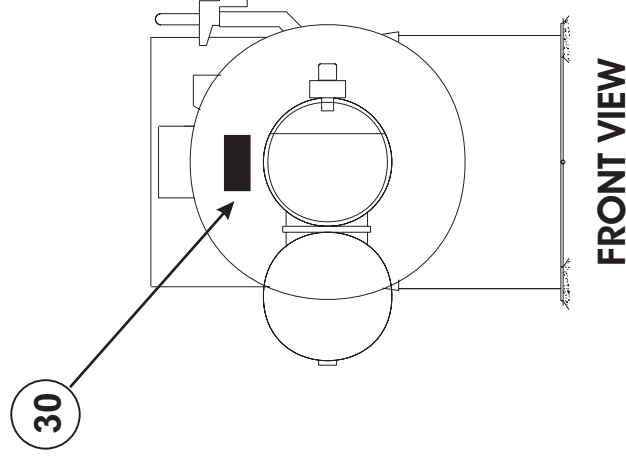
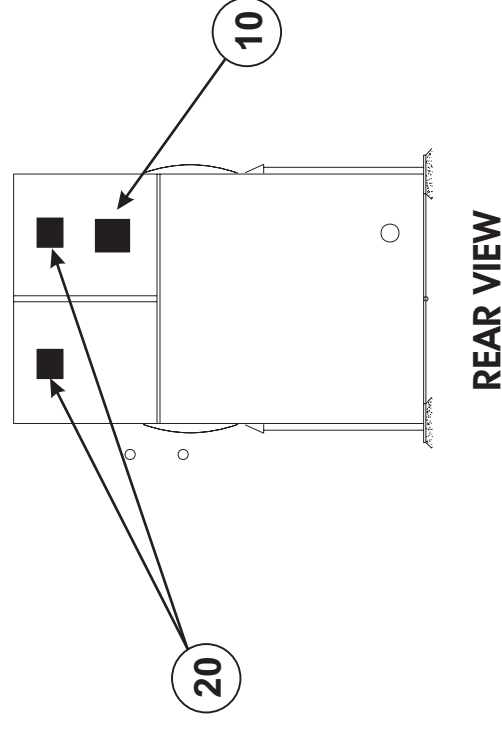
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## ISO Placards shown on this page

### 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-----				
none				
-----COMPONENTS-----				
all	10	01 10583X	NPLT:E-SERIES W/E WARN FRISO	
all	20	01 10599X	NPLT:E-SERIES W/E WARN SDISO	
all	30	01 10649X	NPLT:HOT BEHIND CVR WARN-ISO	
all	40	01 10648X	NPLT:ACTUATED VALVE WARN-ISO	
all	50	01 10377	NPLTE:"WARNING" 4X4	

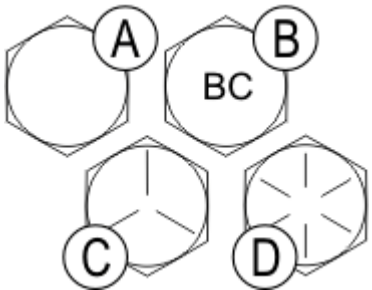
**Section**  
**Service and Maintenance**

**1**

## Fastener Torque Requirements

Torque requirements for other fasteners are specified in the specific document which describes the assembly. **If fastener torque specifications or threadlocking compound requirements in an assembly document vary from the specifications in this document, use the assembly document.**

**Figure 1: Common Bolts Used in Milnor Equipment**

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

### 1. Torque Values

The tables below list the standard size, grade, threadlocking compound, and torque requirements for fasteners commonly used on Milnor® equipment.

**Note 1:** Data derived from Pellerin Milnor® Corporation “Bolt Torque Specification” (bolt\_torque\_milnor.xls/2002096).

#### 1.1. Carbon Steel Fasteners

##### 1.1.1. Without Threadlocking Compound

**Table 1: Torque Values for Dry Fasteners 5/16-inch and Smaller**

Bolt Size	Bolt Grade							
	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	--	--



Fastener Torque Requirements

**Table 2: Torque Values for Dry Fasteners Larger Than 5/16-inch**

Bolt Size	Bolt Grade							
	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 5/16-inch and Smaller**

Bolt Size	Bolt Grade							
	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**

Bolt Size	Bolt Grade							
	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 Threadlocking Compound

**Table 5: Threadlocking Compound Selection by Bolt Size**

LocTite Product	Bolt Size			
	1/4"	1/4" – 5/8"	5/8" – 7/8"	1" +
LocTite 222	OK			
LocTite 242		OK		
LocTite 262			OK	
LocTite 272			High temperature	
LocTite 277				OK

Fastener Torque Requirements

**Table 6: Torque Values for Applications of LocTite 222**

Bolt Size	Bolt Grade							
	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 for Applications of LocTite 242**

Bolt Size	Bolt Grade							
	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 for Applications of LocTite 262**

Bolt Size	Bolt Grade							
	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 for Applications of Loctite 272 (High Temperature)**

Bolt Size	Bolt Grade							
	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 for Applications of Loctite 277**

Bolt Size	Bolt Grade							
	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**

Nominal Bolt Size	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**

Bolt Size	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 [1]: Fire Hazard**—Some solvents and primer products are flammable.

- Use in a well ventilated area.
  - Do not use flammable products near ignition sources.
1. Clean all threads with a wire brush, a tap, or a die.
  2. Degrease the fasteners and the mating threads with a cleaning solvent. Wipe the parts dry.

**Note 2:** LocTite 7649 Primer N™ will remove grease from parts, but it costs more than a standard organic or petroleum solvent.

3. Prime the fasteners and the mating threads with LocTite 7649 Primer N™ or equal. Allow the primer to dry for at least one minute.

## 3. Application of Threadlocking Compound

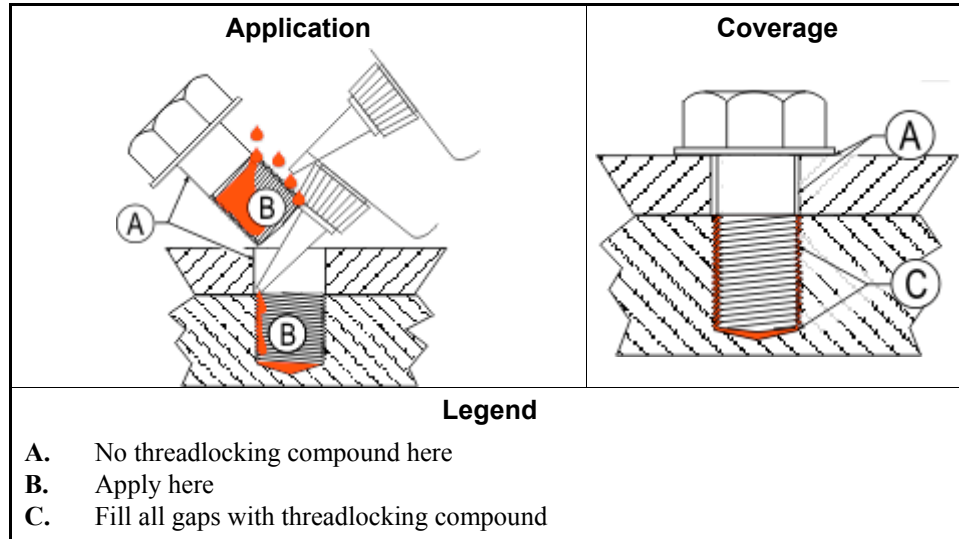


**CAUTION [2]: Malfunction Hazard**—Improper application of threadlocking compounds may result in fasteners becoming loose from impact, heat, or vibration. Loose fasteners can cause the equipment to malfunction.

- Read and follow the threadlocking compound manufacturer's instructions and warnings.

Apply threadlocking compound to the thread engagement areas of fasteners and mating threads only.

**Figure 2: Blind Hole**



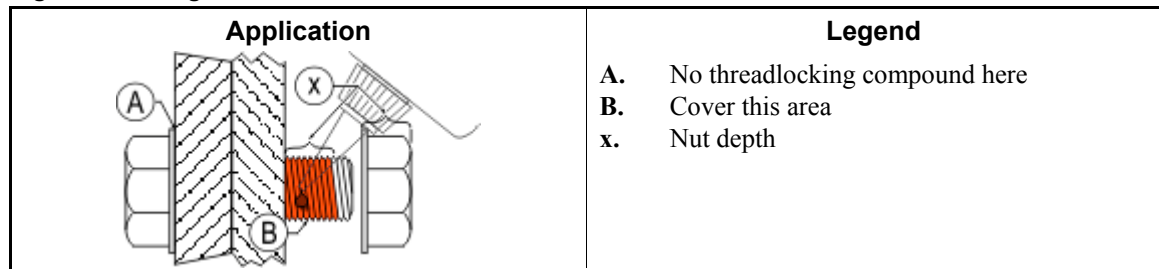
### 3.1. Blind Holes

1. Apply several drops of threadlocking compound down the female threads to the bottom of the hole.
2. Apply several drops of threadlocking compound to the bolt.
3. Tighten bolt to value shown in the appropriate table ([Table 5](#) through [Table 11](#)).

### 3.2. Through Holes

1. Insert bolt through assembly.
2. Apply several drops of threadlocking compound to the bolt thread area that will engage the nut.
3. Tighten bolt to value shown in the appropriate table ([Table 5](#) through [Table 11](#)).

**Figure 3: Through Hole**

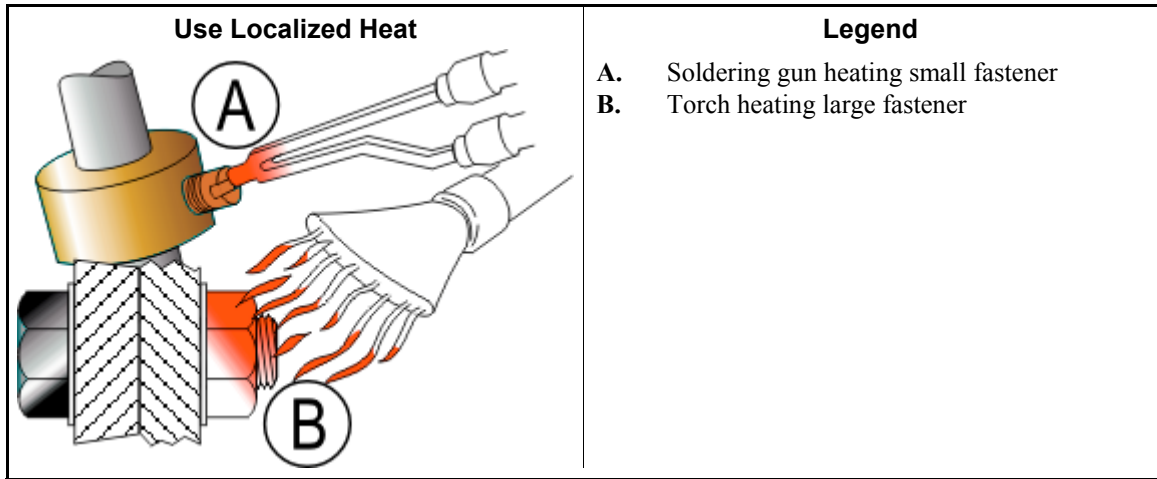


### 3.3. Disassembly

—For low-strength and medium-strength products, disassemble with hand tools.

For high-strength products, apply localized heat for five minutes. Disassemble with hand tools while the parts are still hot.

Figure 4: Disassembly



— End of BIUUM04 —





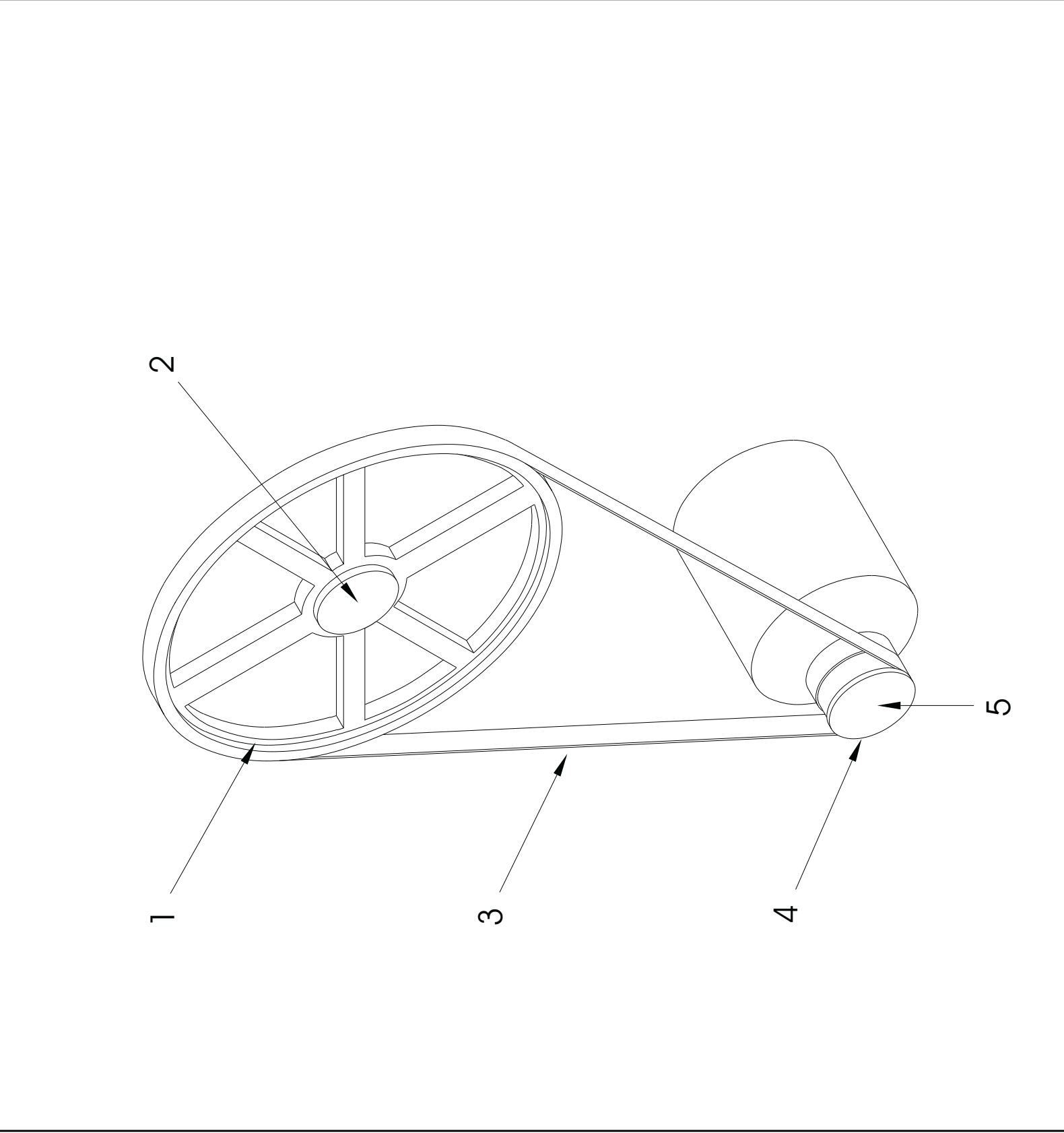
**Section**  
**Drive Assemblies**

**2**



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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
	A	D13 00960	ASSEMBLIES *DRIVECHART=3626V5 50/60HZ	36026V5J
			COMPONENTS	
all	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	3 REQUIRED
all	4	56030B3SH	VPUL 3B3.0/A2.6 3BK32SH (MTO)	
all	5	56Q1GSH	1+3/8" BUSH VPUL QD TYPE SH	

# Drive Chart

## 36021V7J, 36026V7J



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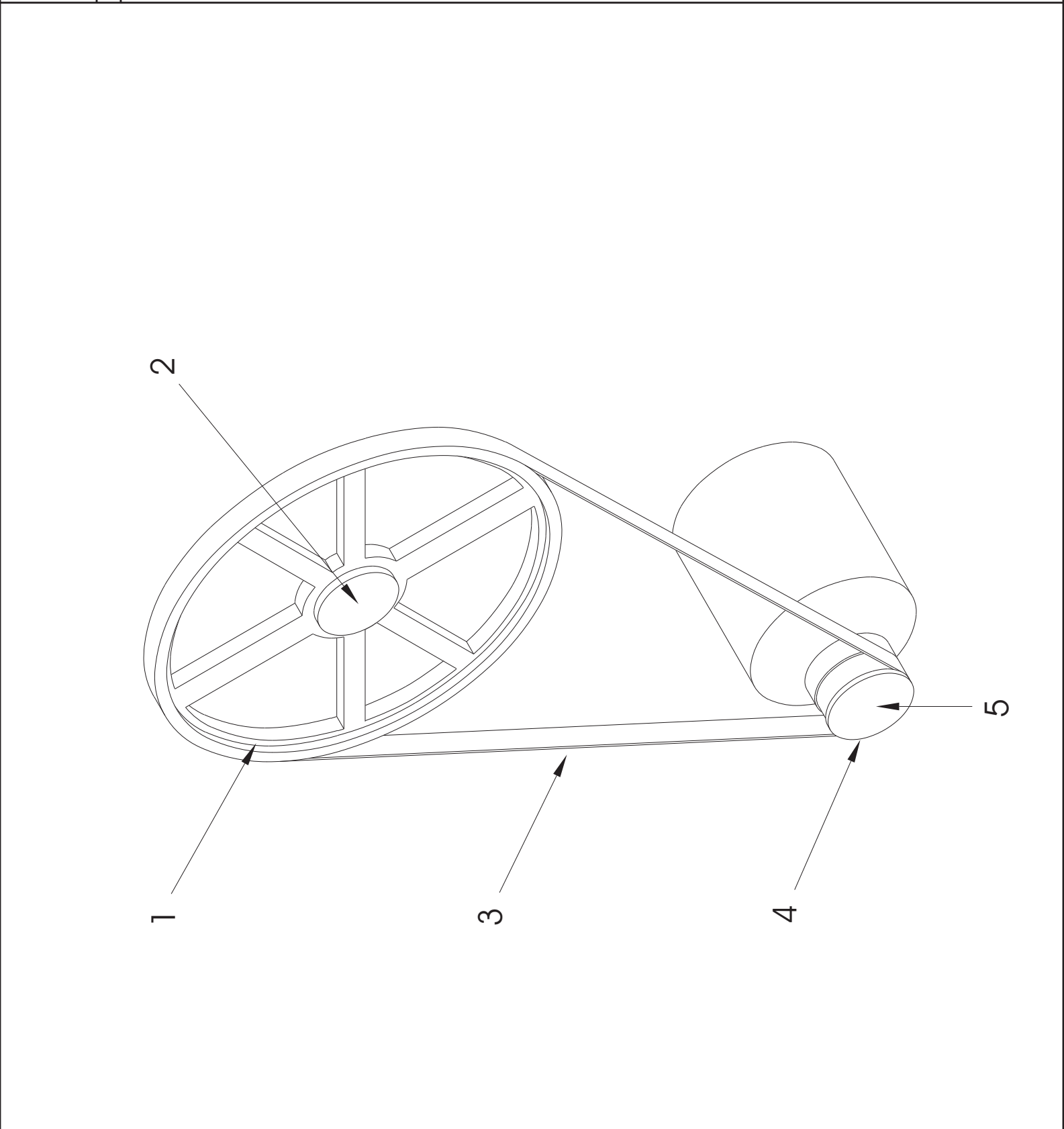
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(Sheet 1 of 1)

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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	



# Drive Chart

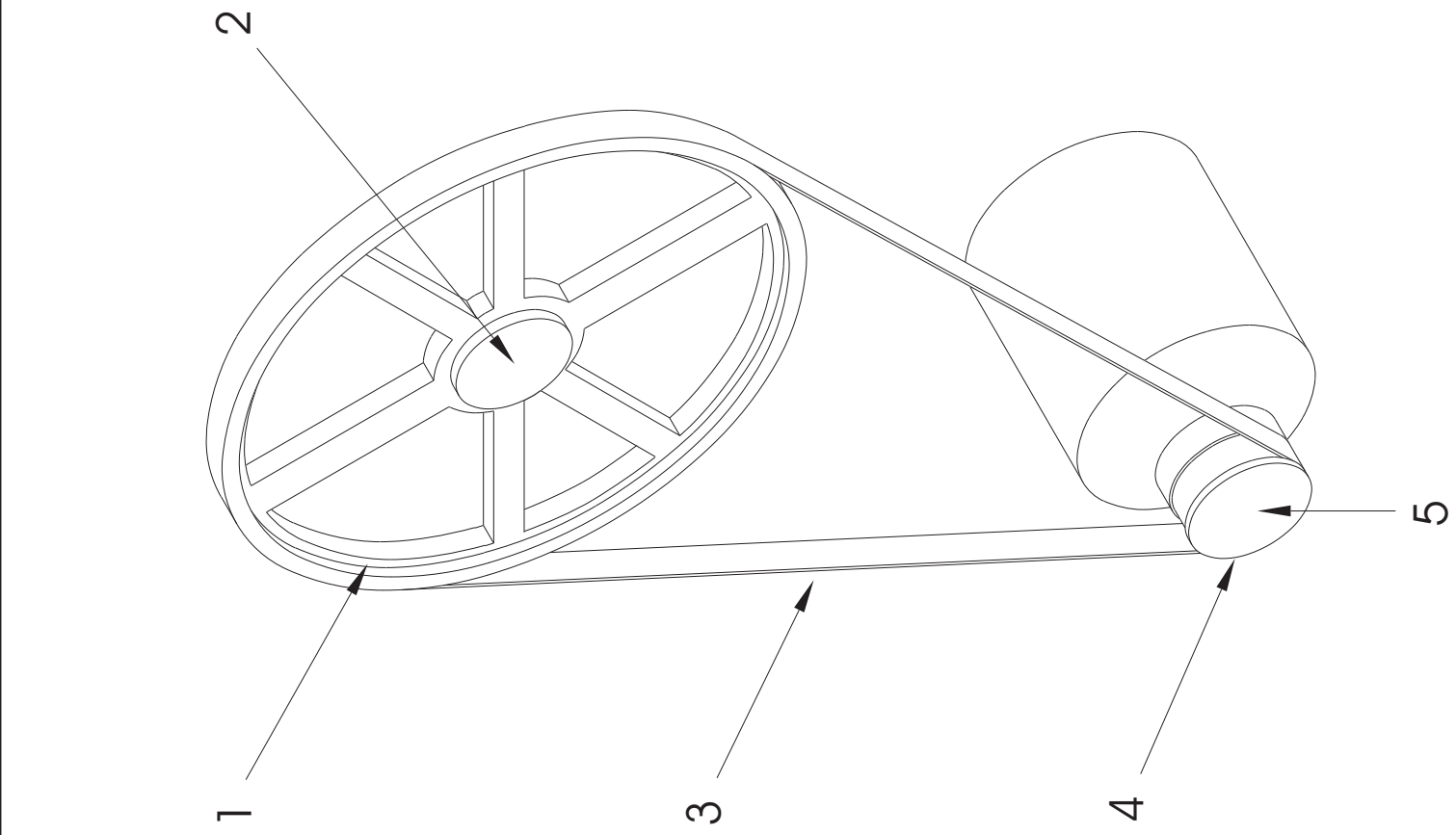
## 42026V6J, 42030V6J

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(Sheet 1 of 1)



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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
	A	D13 01960	95000 DRIVECHART=4226V6 60CYC	42026V6J, 42030V6J
			-----ASSEMBLIES-----	
			-----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	

# Motor Mount

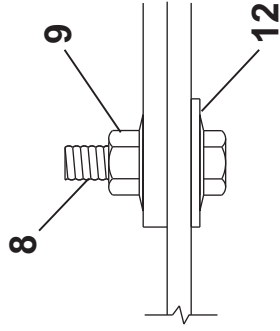
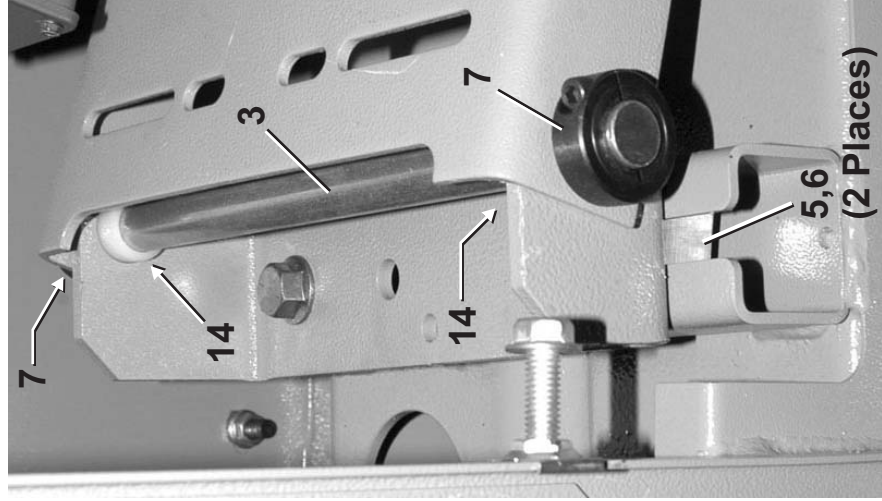
30015, 30022, 36021, 36026, 42026, & 42030Vxx,Txx



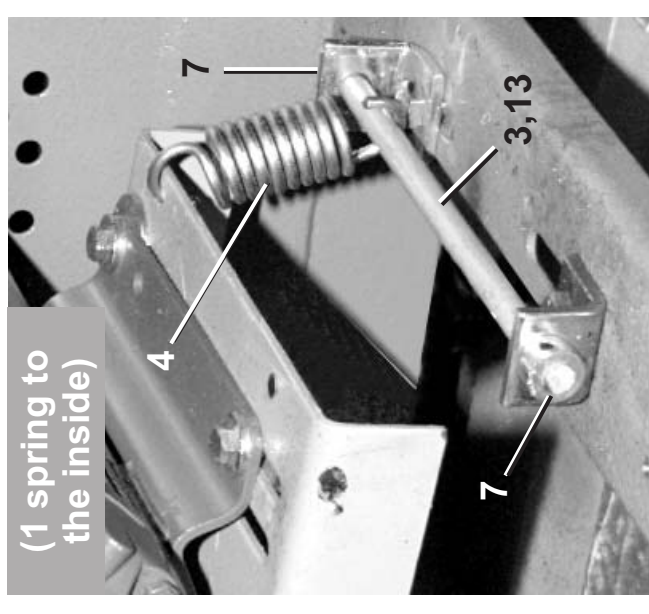
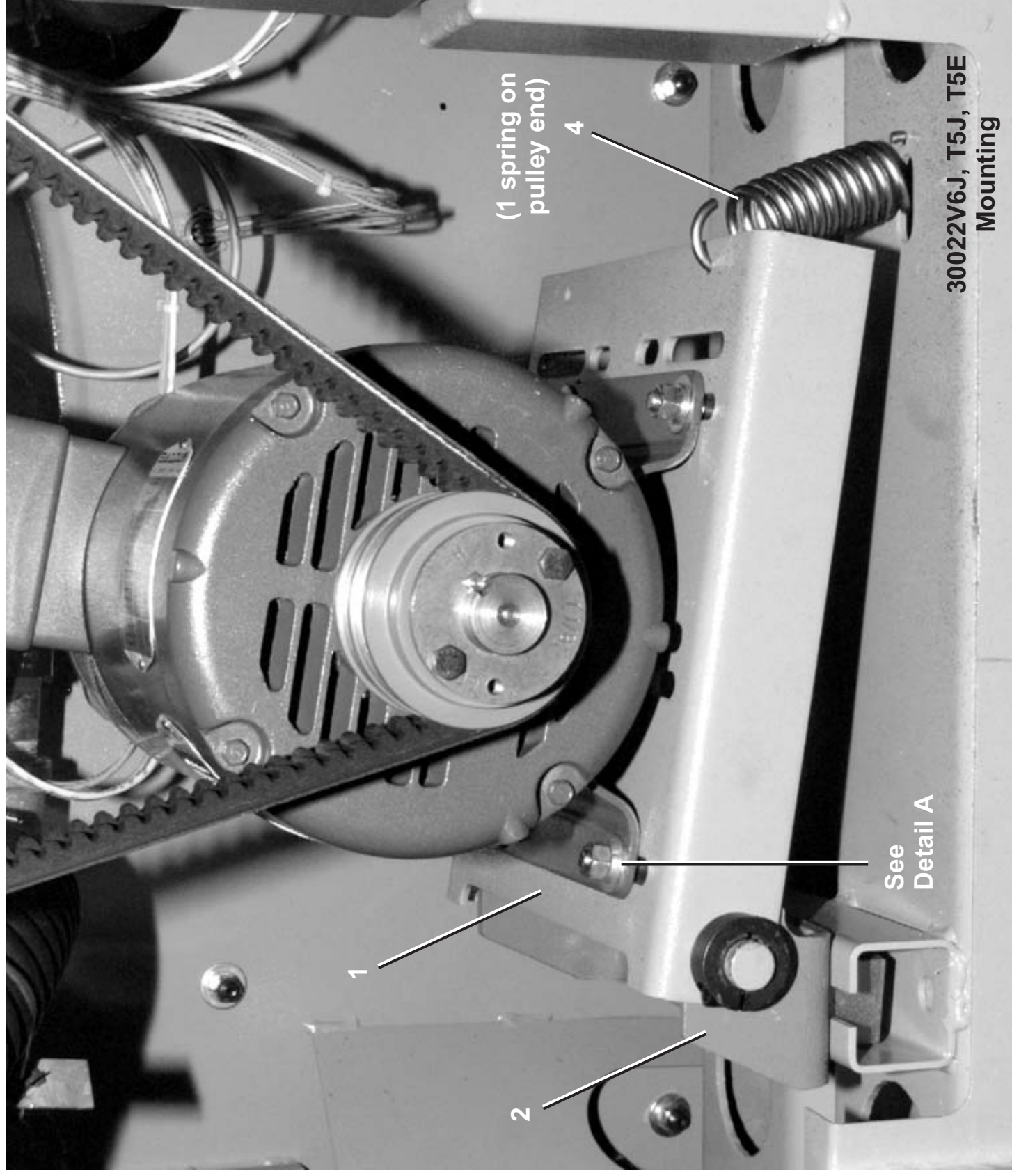
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(Sheet 1 of 2)

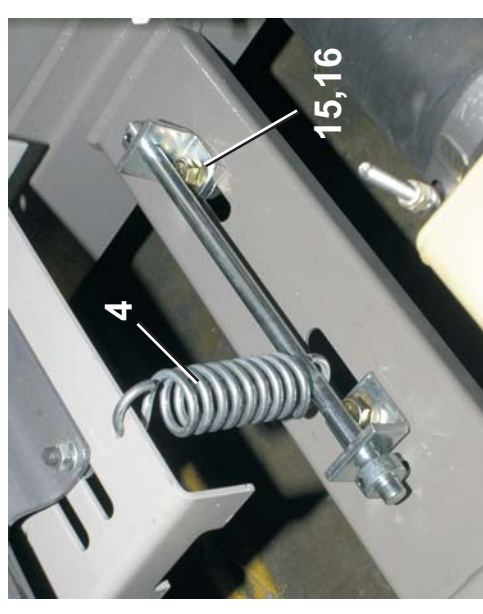
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Detail A  
(4 Places)



36026V7J, 42026V6J, &  
42030V6J Mounting  
(Item 13, tube, slides over the shaft to tighten the belt.)



36021V5J, 36026V5J  
Mounting





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**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	ADB3022S4	ASSY=DRIVE BASE, 3022S4	3015V7J,T5J,T5E 3022V6J,T5J,T5E 3626V7J,4226V6J
	B	ADB12001	DRIVE ASSY 4230V	4230V6J
	C	ADB3621V5	ASSY=DRIVE BASE 3621V5	3621V5J WITH STARPLATE
	D	ADB3626V5	ASSY=DRIVE BASE 36V5	3626V5J WITH STARPLATE
-----COMPONENTS-----				
all	1	02 04256	PLATE=MOTOR MNT, 3022S4	
AB	2	02 04257	BRKT=MOTOR MOUNT, 36V7/42V6	
CD	2	02 04257B	BRKT=MOTOR MOUNT 36V5	
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	
all	6	15K154H	INDHEXFLGSCR 1/2-13X1+3/4GR8ZN W/LOCTITE	
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	12	15U240	FLATWASHER(USS STD) 3/8" ZNC P	
all	13	02 04258B	TUBE=MOTOR MOUNT SPRING ADJ	
all	14	54E226	FLBRNYL 3/4"X1"X1";EA=1 FLGBRG	
all	15	15K153H	INDHEXFLGSCR1/2-13X1+1/4GR8ZN W/LOCTITE	
all	16	15G222B	HEXFLGNUT 1/2-13 ZINC SERRATED	

**Section**  
**Bearing Assemblies**

**3**

# Main Bearing, Shell, Cylinder Installation

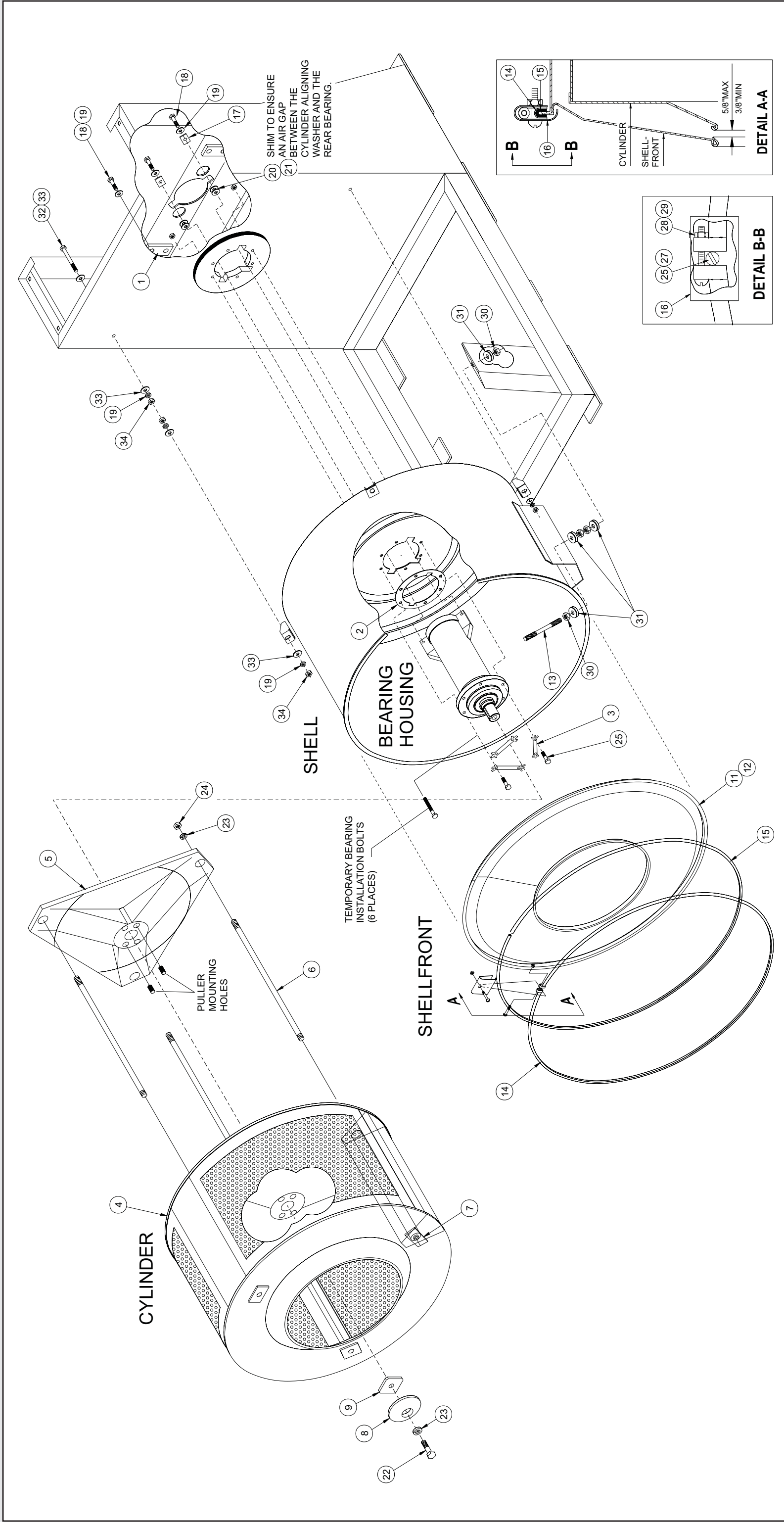
## 36021Q4G/Q4J/Q4P/C4E 36026Q4G/Q4J/Q4P 36026V5J

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(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	GBM13002	BRG INSTALL 3621/26F	36021Q4X,36026Q4X 36026V5J
	B	GCA3621Q4	CYL INSTL 3621 Q4	36021Q4X,C4E
	C	GCA3626Q4	CYLINDER INSTALL 3626Q4	36026Q4X,36026V5J
	D	GSF14804	*INST=SHEL+BASE+FRME 3621F	36021Q4X
	E	GSF14805	*INST=SHEL+BASE+FRME 3626F	36026Q4X
	F	GSF14806	INST=SHELL+BASE+FRM 3626V5	36026V5J
			-----COMPONENTS-----	
all	1	02 03560	TAPSTRIP=BEARING SUPPORT	
all	2	02 13139	GASKET=MAINRHOUS--1/3626SWE	
all	3	02 03629	LOCKSTRAP=BEAR HOUS S/S	
B	4	ACA3621Q4	*CYL ASSY 3621 Q4	(CONTAINS ITEMS 5-7)
C	4	ACA3626Q4	*CYLINDER ASSY 3626Q4	(CONTAINS ITEMS 5-7)
all	5	X2 13112A	SPIDER=3626SWE+QWE W/3/4"ROD	
B	6	02 14561	CYL TIE ROD 24.25LG 3621RWP	
C	6	02 12012	CYLTIEROD=4226W	
all	7	02 13138A	PLATE CYLFRONT REINF=3/4"ROD	
all	8	02 11196	COVER=SHAFT RETAINER=304S/S	
all	9	02 14359	SPACER SHT RETNR-LG OUR MATL	
all	11	ASF14801	*SHELL FRONT ASSY=3621RWP	CONTAINS ITEM 12
all	12	X2 14195A	SHELLFRONT ALL 36" W/LOCK	
all	13	17R024A07A	THREADED ROD 5/8-11X7" ZNPL GR	
all	14	Y2 09031	*SHELL CLAMP RING=36" MACHINE	
all	15	02 02087A	EXTRUS*ION-SHELL=36"MACHINES (	
all	16	02 02181	GUARD=SHELL MOUNT RING CLIP	
all	17	02 03397	CYLINDER ALIGNING WASHER	
all	18	15K173A	HXCAPSCR 1/2-13UNC2AX1.75 GR5	
all	19	15U300	LOKWASHER REGULAR 1/2 ZINC PLT	
all	20	15U312	FLAWASHER 3/4ODX33/64IDX11GA Z	
all	21	15U243	FLAWASHER 7/8ODX33/64IDX16GA Z	

Used In	Item	Part Number	Description	Comments
all	22	15B200	HEXCAPSCR 3/4-10X1+3/4 SS18-8	
all	23	15U350	LOCKWASHER 3/4 MED SS18-8	
all	24	15G243	HEXNIUT 3/4-10UNC2 SS18-8	
all	25	15K180S	HXCAPSCR 1/2-13UNCAX2 18-8SS	
all	26	15N146	RDMACHSCR 10-24UNC2X1 SS18-8	
all	27	15G130	HEXMACHSCRNIUT 10-24UNC2 SS18-8	
all	28	15K046S	HEXCAPSCR 1/4-20UNC2A X 2.25 S	
all	29	15G170	HEXNIUT 1/4-20UNC2 SS18-8	
all	30	15G238	HXNIUT 5/8-11UNC2B SAE ZINC GR2	
all	31	17W030	SPHERICAL WASHER SET 5/8 M/F	
all	32	15K203	HXCAPSCR TFL 1/2-13X5 GR5 ZINC	
all	34	15G230	HXNIUT 1/2-13UNC2B SAE ZINC GR2	

# Main Bearing Assembly

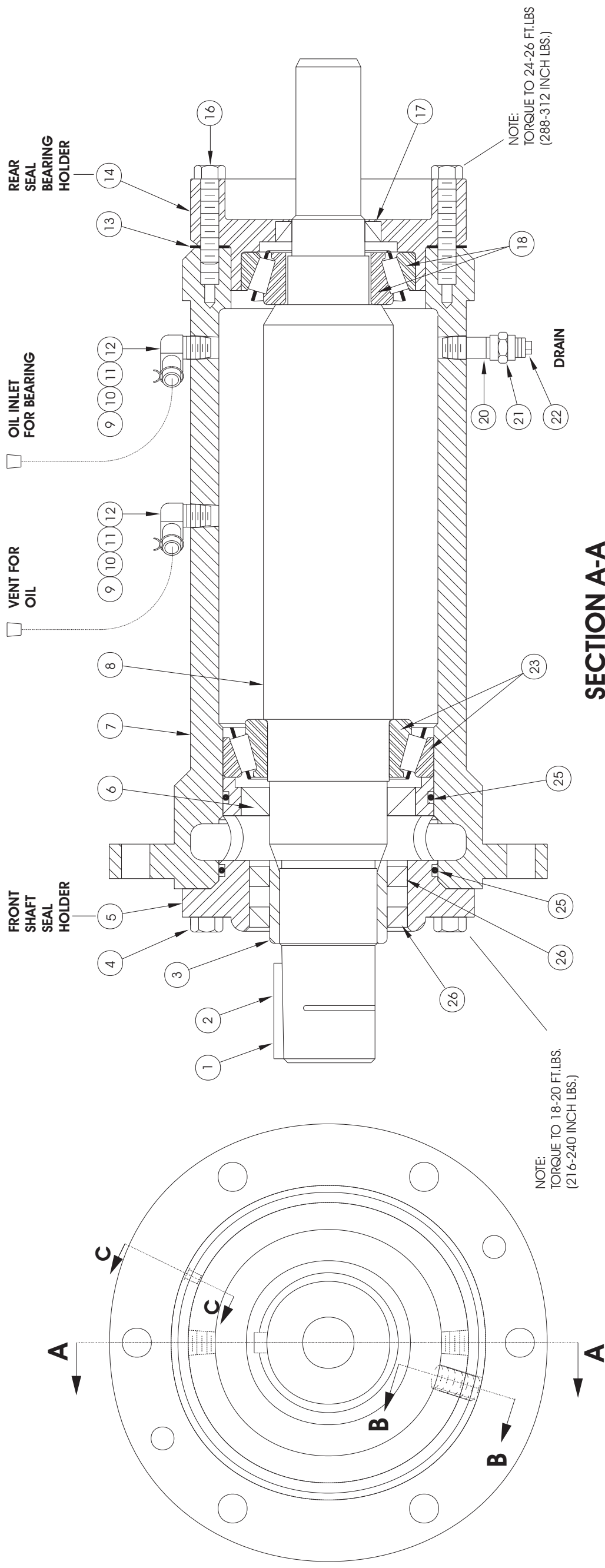
36021Q4G/Q4J/Q4P 36026Q4G/Q4J/Q4P 36021V5J 36026V5J 3621C4E

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(Sheet 1 of 2)

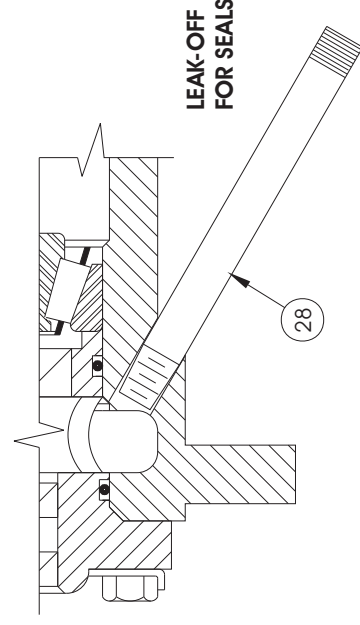
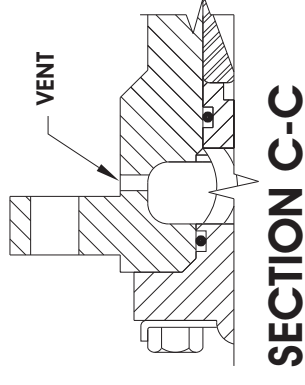


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## SECTION A-A



NOTE:  
SEE PREVENTIVE MAINTENANCE/  
LUBRICATION PROCEDURES IN  
THE TECHNICAL MANUAL FOR  
INSTRUCTIONS ON LUBRICATING  
BEARINGS AND SEALS.



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**Parts List—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	SA 13 012A	*BEARING ASSY-MAIN 36Q4 LIGHT	36021Q4G/Q4J/Q4P 36026Q4G/Q4J/Q4P 36021V5J/36026V5J 3621C4E
			-----COMPONENTS-----	
all	1	02 09126	SHAFTKEY-SS303=OEWS 2+5/8"L	
all	2	15N082	FILMACSCR 8-32UNC2X3/8SS18-8	
all	3	02 13143	SEALSLEEVE=SWE-1/SWE	
all	4	15K062	HEXCAPSCR 5/16-18X1 18-8SS	
all	5	X2 13144A	HOLDER=SHFT SEAL(05=24S052A)	
all	6	24S052A	SEAL 2.559X3.55X.315 CR#25430	
all	7	X2 13105B	HOUSING = MAIN BEARING	
all	8	X2 13103	MAINSHAFT=1/3626SWE	
all	9	5SLOEBEC	NPTLNB 90DEG STRT 1/4 BRASS125	
all	10	5N0E01KBE2	NPT NIP 1/4X1.5TBE BRASS STD.	
all	11	27A043A	HOSECLAMP.562"DIA.SPRG#HC9STZD	
all	12	60E005P	PVC TUBING 1/2"ID X 5/8"OD	
all	13	02 03320B	SHIM .003 ARTUS GREEN	
all	13	02 03320C	SHIM .005 ARTUS BLUE	
all	13	02 03320D	SHIM .010 ARTUS BROWN	
all	13	02 03320G	SHIM .0075 ARTUS TRANSMATTE	
all	14	X2 03659A	HOUSE=SEAL+BRG 30M,V7	
all	16	15K078	HXCAPSCR 5/16-18 UNC2A X 2" GR	
all	17	24S048AAA	SEAL 1.625X2.375X.375 CS/BUNA	
all	18	54A307308	TIMK M802011 2-24/M802048 2-24	
all	20	5SP0EFFSS	NPT PLUG 1/4 SQ SOLID BLKSTL	
all	21	5N0E01KBE2	NPT NIP 1/4X1.5TBE BRASS STD.	
all	22	5SCC0EBE	NPT COUP 1/4 BRASS 125# W/HEX	
all	23	54A915916	TIM###JLM710949C/TIM###JLM710910	
all	25	60C151	ORING 3+7/8ID1/8CS BUNA70#241	
all	26	24S053	SEAL 2.625X3.625X.437#10050LUP	
all	28	5N0E05AG42	NPT NIP 1/4X5 TBE GALSTL SK40	

# Main Bearing, Shell, & Cylinder Installation

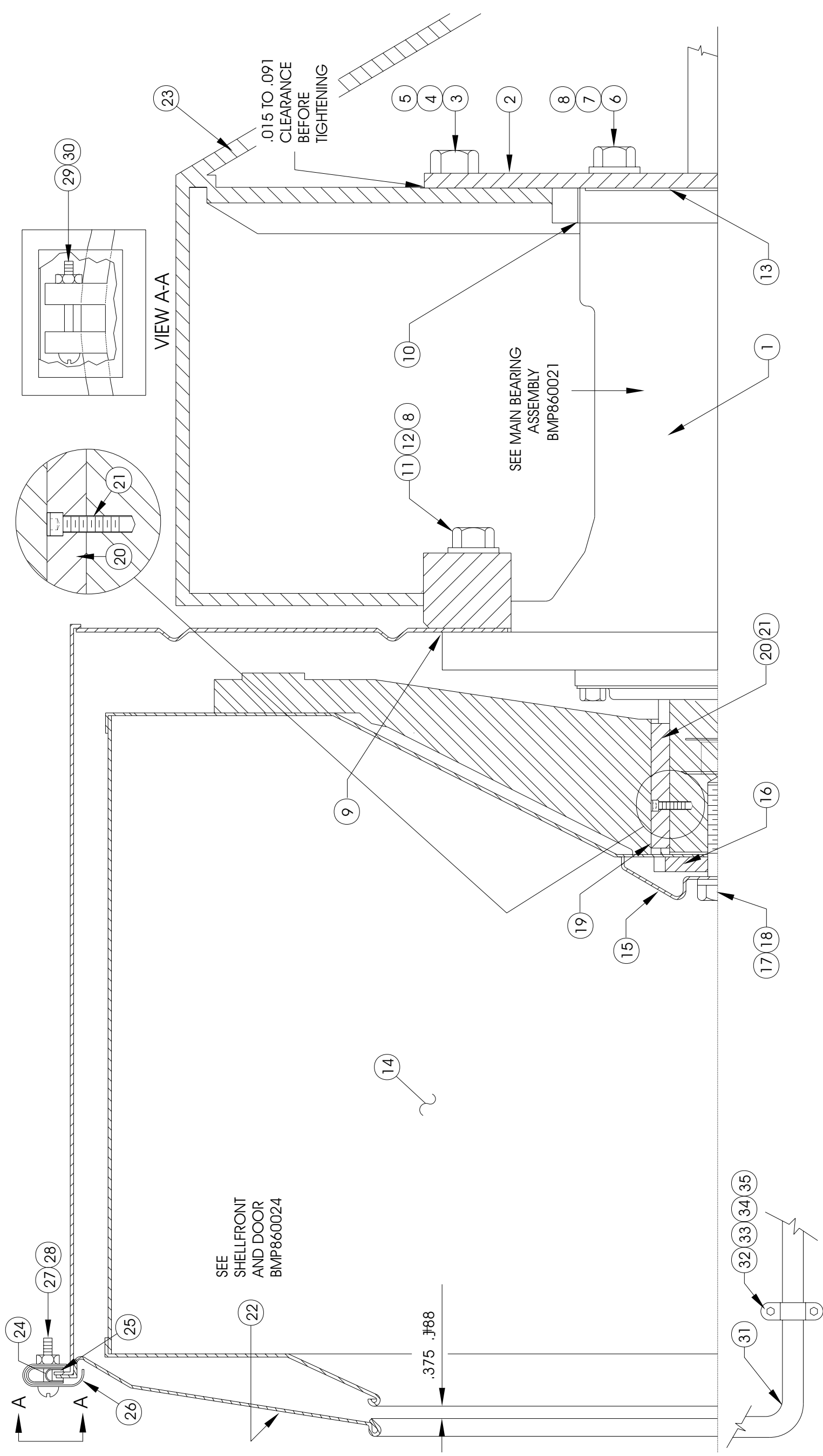
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(Sheet 1 of 2)



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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 INSTALL 4226Q6P&G	42026Q4X,Q6X,V6J
D	GCA3621Q6		CYLINDER INSTALL 3621Q6	36021Q6X,V6J
E	GCA3626Q6		CYLINDER INSTALL 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	
all	2	Y2 11320	SPIDER WLDMT=MACHINED 42QHE	
all	3	15K232A	HXCPCS 3/4-10X2 GR8 ZC	
all	4	15U340	LOCKWASH MEDIUM 3/4 ZINCPL	
all	5	15G240A	HEXNUT 3/4-10UNC2B SAE GR8 ZIN	
all	6	15K225A	HXCPCSCR-5/8-11X2.5 GR9 ZINC	
all	7	15U316	FLTWASH 5/8 ZNC DICR	
all	8	20C007	THDLOCK CMPD-10CC LCT#222-21	
all	9	20C040B	SILSEAL RTV CLR10.2 OZ #59575	
all	10	20C009	ADH/SEALANT-50CC LCT#277-31	
all	11	15U316	FLTWASH 5/8 ZNC DICR	
all	12	15K225A	HXCPCSCR-5/8-11X2.5 GR9 ZINC	
all	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	CYL ASSY4230V	
all	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	
all	18	15U350	LOCKWASHER 3/4 MED SS18-8	
all	19	98E006	HI TECH HAND SOAP PINK 4GL/CS	
all	20	02 09126	SHAFTKEY-SS303=OEWS 2+5/8"L	
all	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	
all	26	02 02181	GUARD=SHELL MOUNT RING CLIP	
all	27	15N146	RDMACHSCR 10-24UNC2X1 SS18-8	
all	28	15G130	HEXMACHSCRNUT 10-24UNC2 SS18-8	
all	29	15K046S	HEXCAPSCR 1/4-20UNC2A X 2.25 S	
all	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	
all	32	12K077	STRAP 1/2" HVY CONDUIT 2-HOLE	
all	33	15K037	HEXCAPSCR 1/4-20UNC2A X5/8 GR5	
all	34	15U180	LOCKWASHER MEDIUM 1/4 ZINCPL	
all	35	15G165	HXNUT 1/4-20UNC2BSAE ZC GR2	

# Main Bearing Assembly

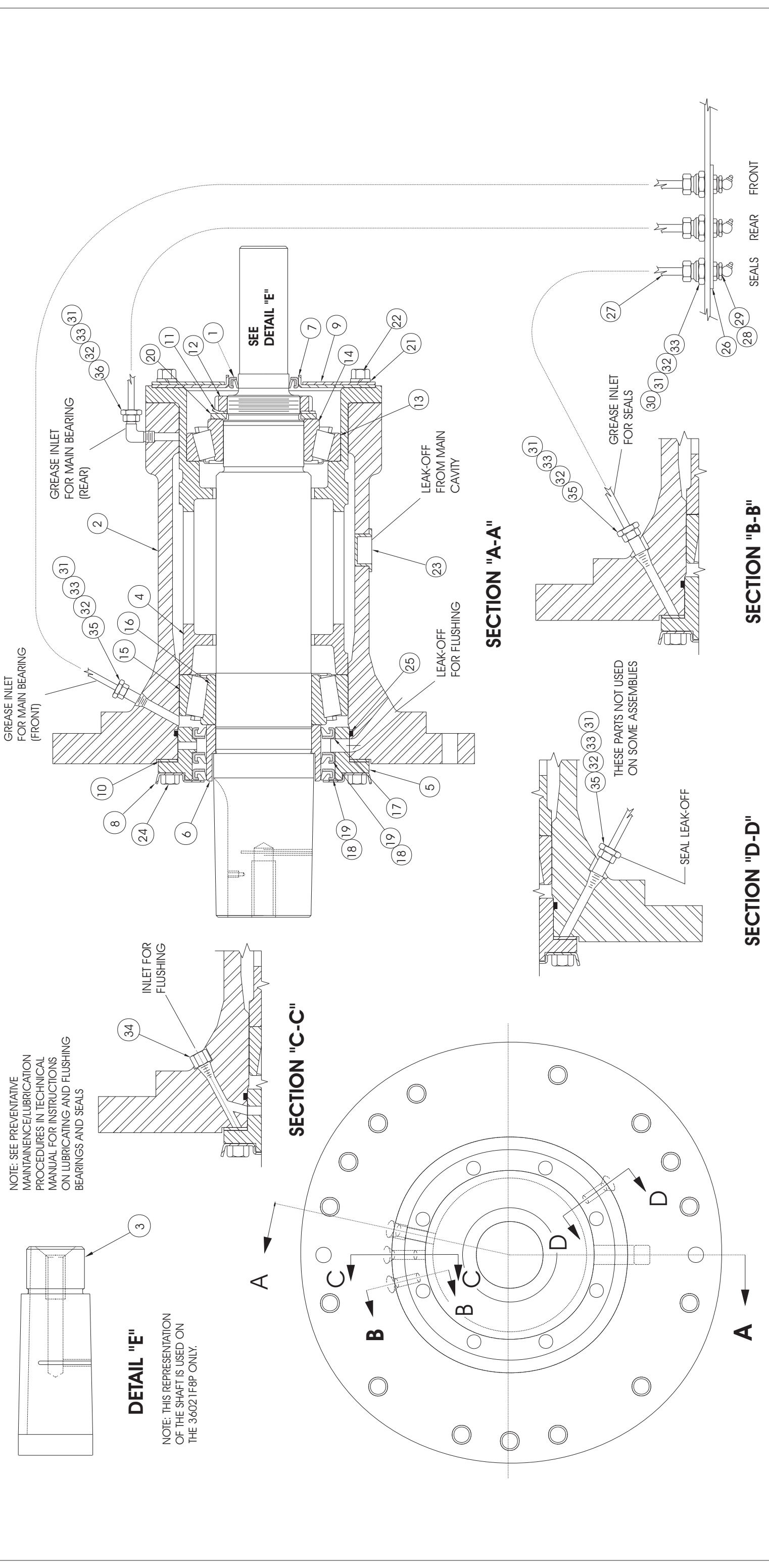
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BMP860021/2012164B  
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**Parts List—Main Bearing Assembly**  
Find the correct assembly first, then find the needed components. The item letters (A, B, C, etc.) assigned to assemblies are referred 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 3621/26RW/P/E	36021V7J, 36026V7J
D		ABM119001A	MAIN BEARING ASSY 4226Q6P&G	42026Q6P/G, 42026V6J, 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=SUPPORT 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	HXCPS 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	





**Section**

**4**

# **Shell and Door Assemblies**

# Door Installation

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

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Hinge Installation: 3621C4E, 3621Vxx, 3626Vxx



Hinge Installation: 4226V6J, 4230V6J



# Door Installation

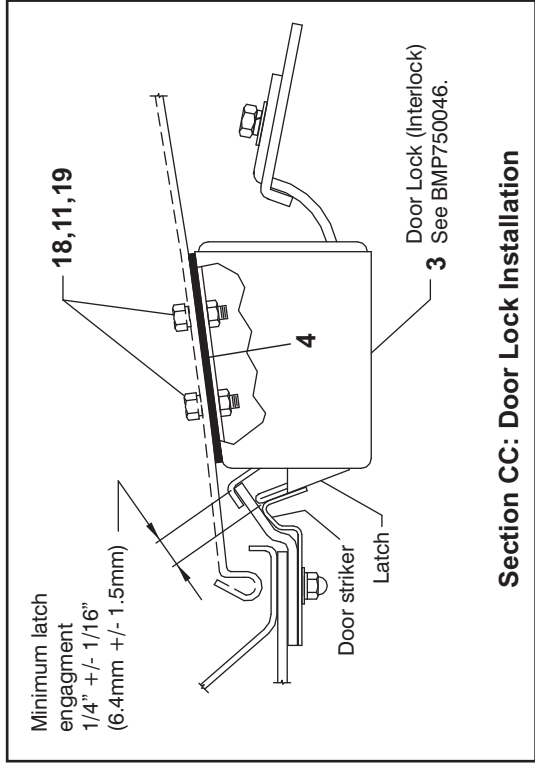
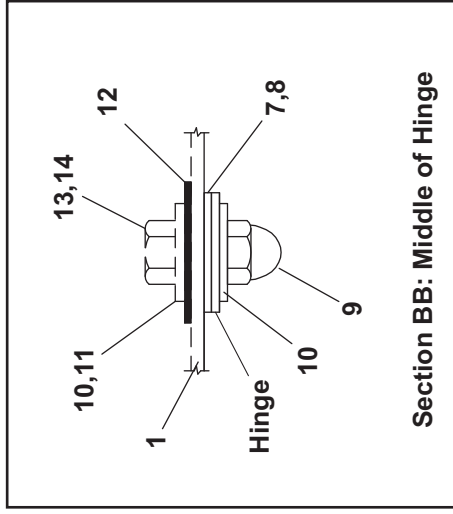
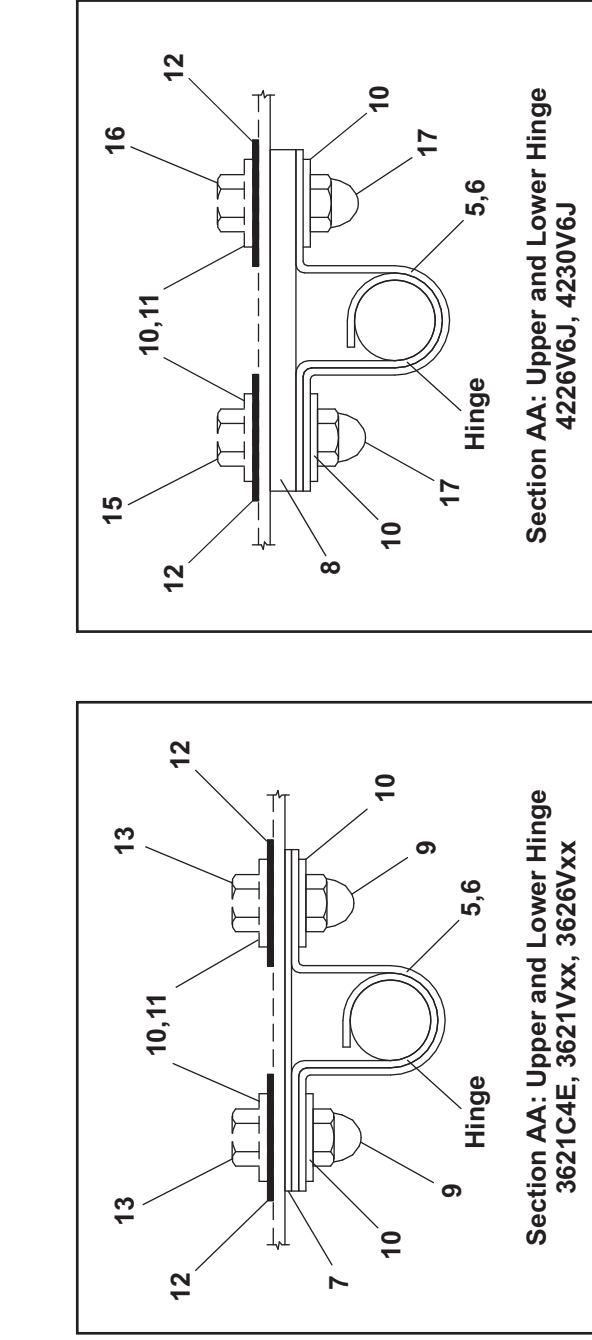
3621C4E, 3621V5J/V7J, 3626V5J/V7J, 4226V6J, 4230V6J



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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

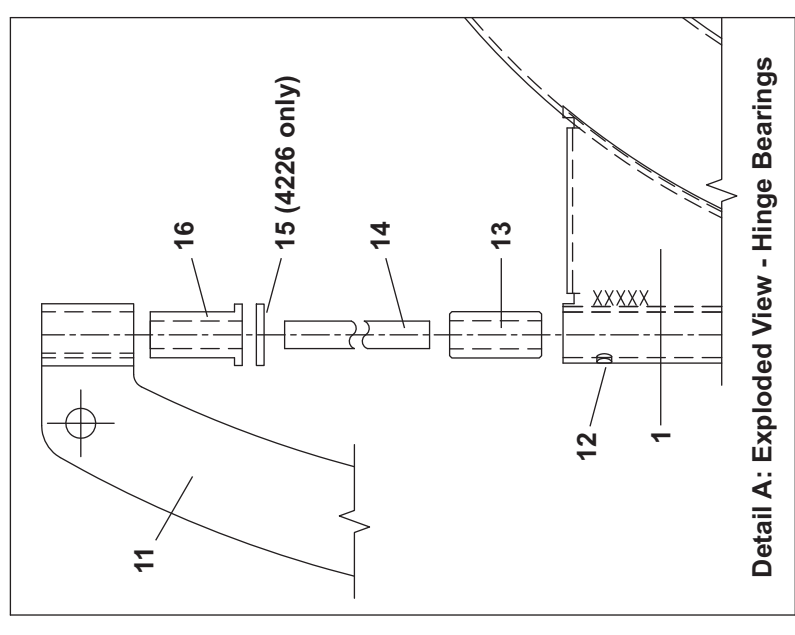
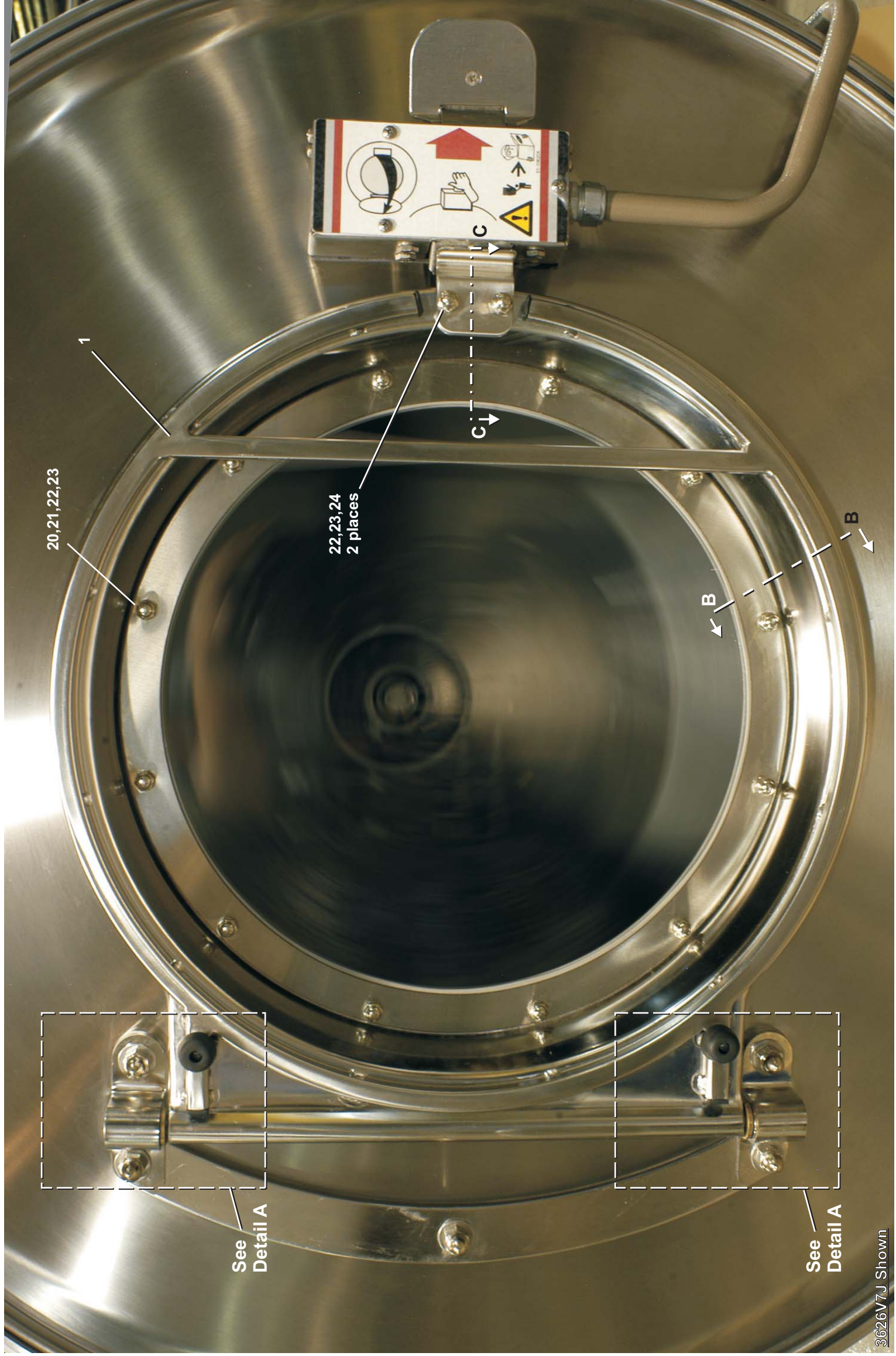
3621C4E, 3621V5J/V7J, 3626V5J/V7J, 4226V6J, 4230V6J



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

3626V7J Shown



# Door Assembly

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



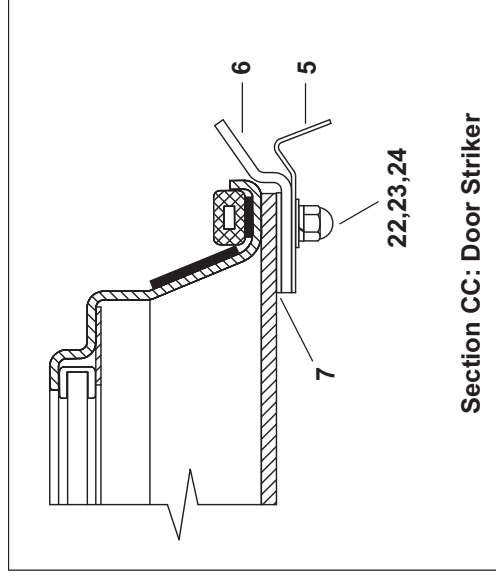
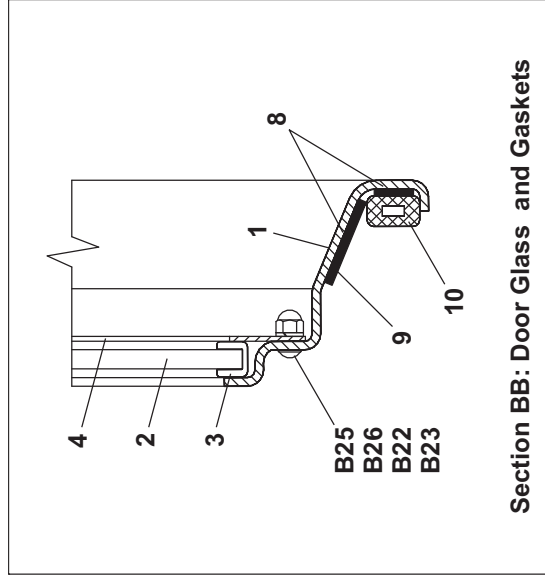
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(2 of 2)

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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	

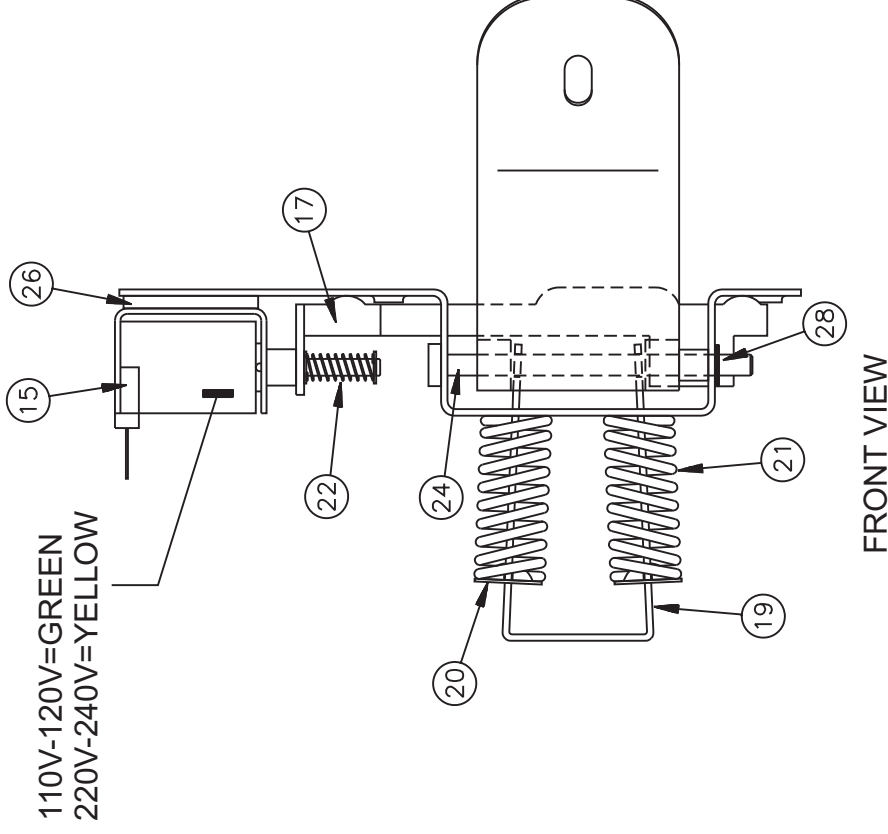
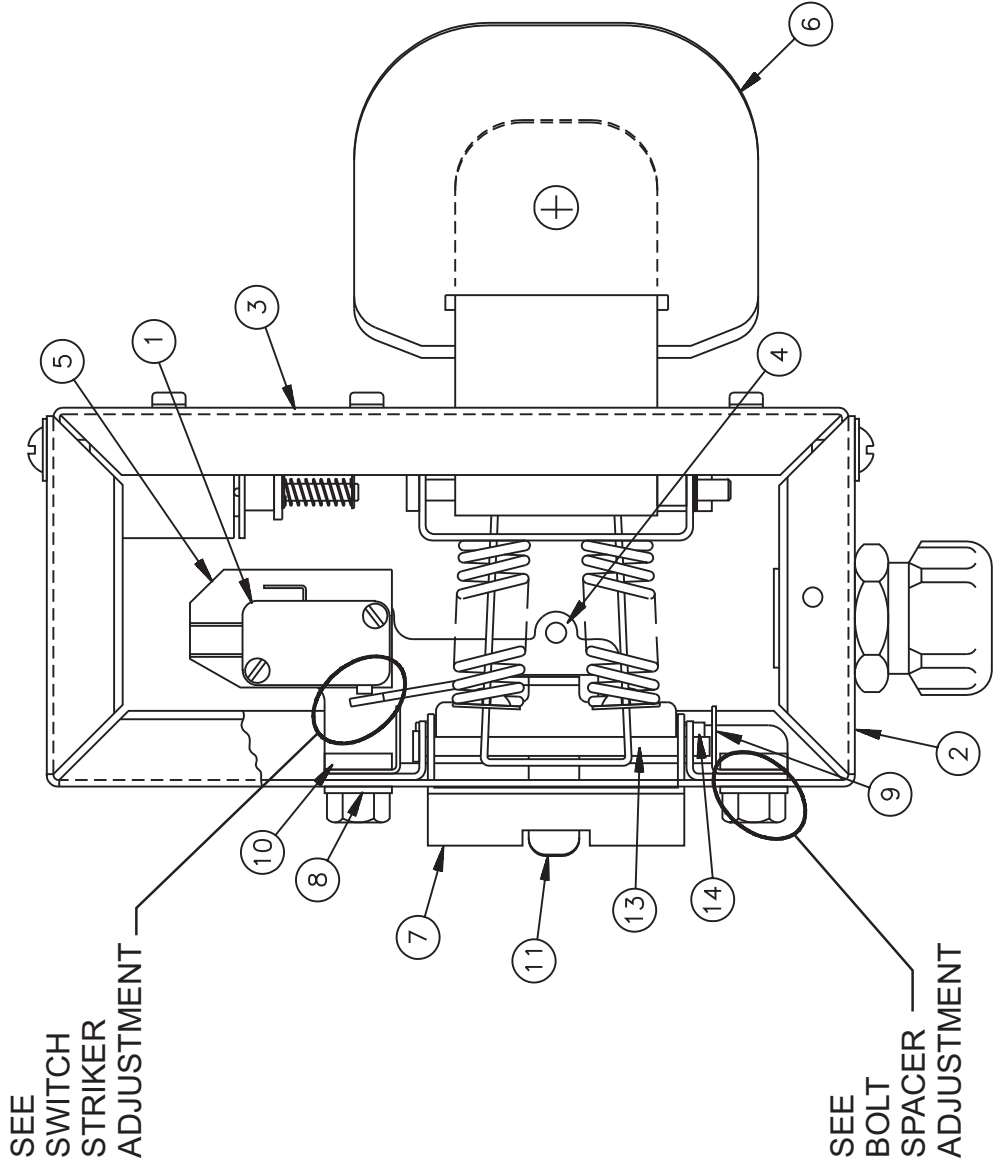
# Interlock Assembly

BMP750046/2012383B  
(Sheet 1 of 2)



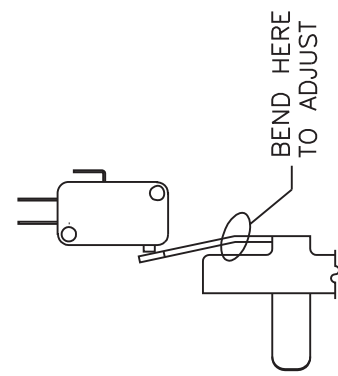
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ASSEMBLIES 00AA,00BB,00CC,00DD

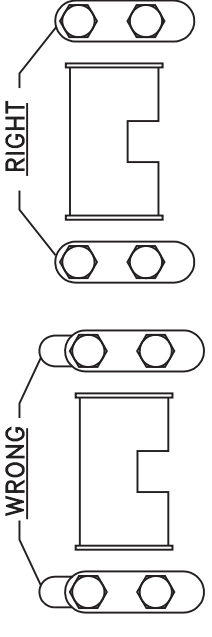
## SWITCH STRIKER ADJUSTMENT



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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**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	<b>30015V7J,T5J,T5E</b> 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 <b>36021V6J, 3621V5J, 3626V5J</b> <b>36026V7J, 42026V6J</b> <b>42030V6J</b>
CC	EDL00337A		93207# RR PIVOT PL ASSY=N/LOCK 120V	USED ON 00C (CONTAINS ITEMS 15-28)
D	EDL00371		94000Z INTERLKHSG=N/LOCK+SWITCH240V	<b>3022V6J,T5J</b> 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	<b>30022T5E</b>
			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/UNLATCH	
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	01ZSPCRROLL.177ID.25L.027TK CSZNC	
BB,CC,DD	28	03 01418C	75736B KEEPER=NORMLOCKED SLIDE=ILOC	





**Section**  
**Control and Sensing**

**5**

## 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

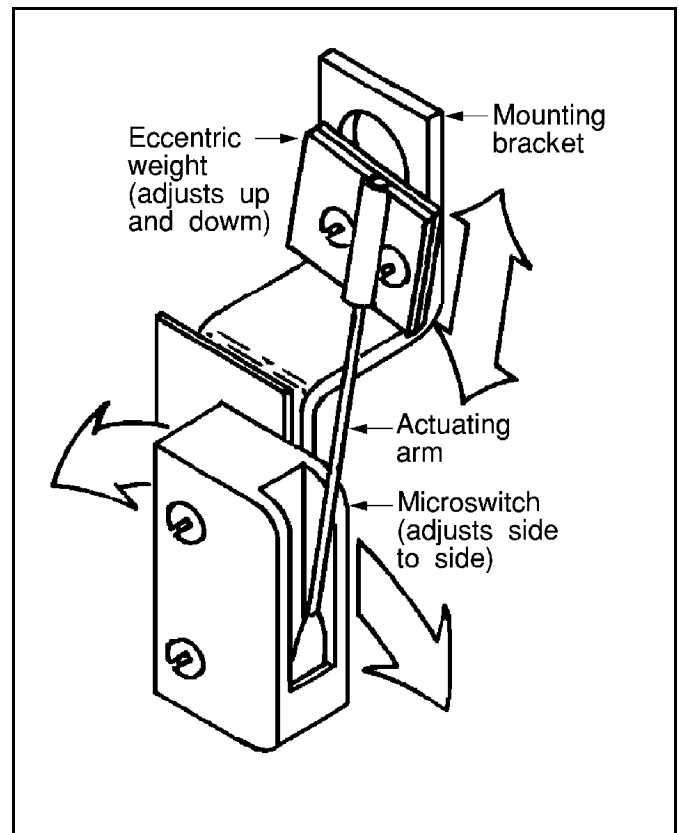
When the machine leaves Milnor<sup>®</sup>, the actuator arm is tie-wrapped to prevent damage (except on 30015, 30020, and 30022 models). **This tie wrap must be removed after the machine is set into position but before the machine is operated.**

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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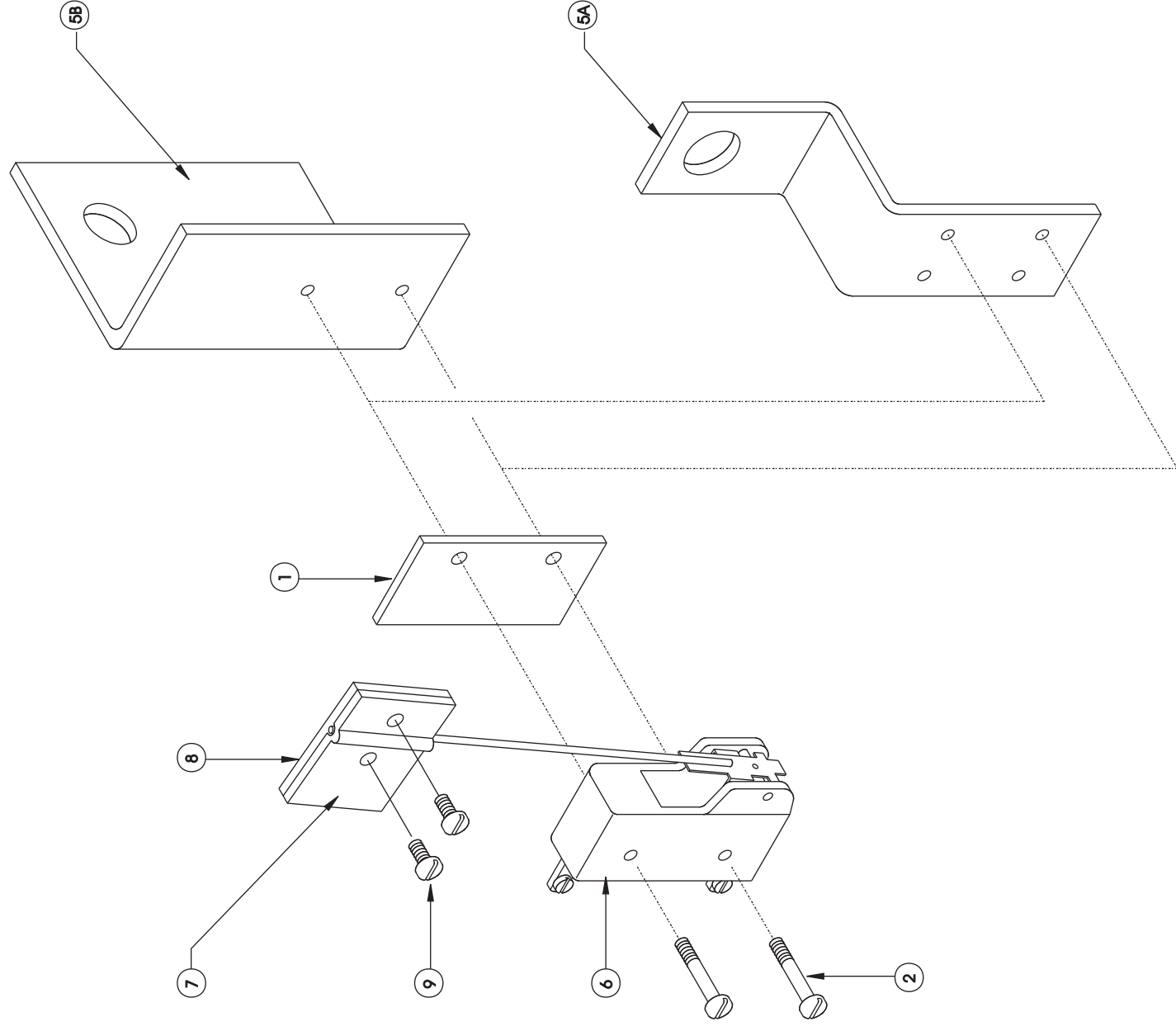
Litho in U.S.A.

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
B		SAE03 151A	*ASSY-VIBRATION SWT=BALCOM	(MODELS 3621BWP,CPE ONLY) CONTAINS 001,002, 005B-009
-----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	



# Level Sensing

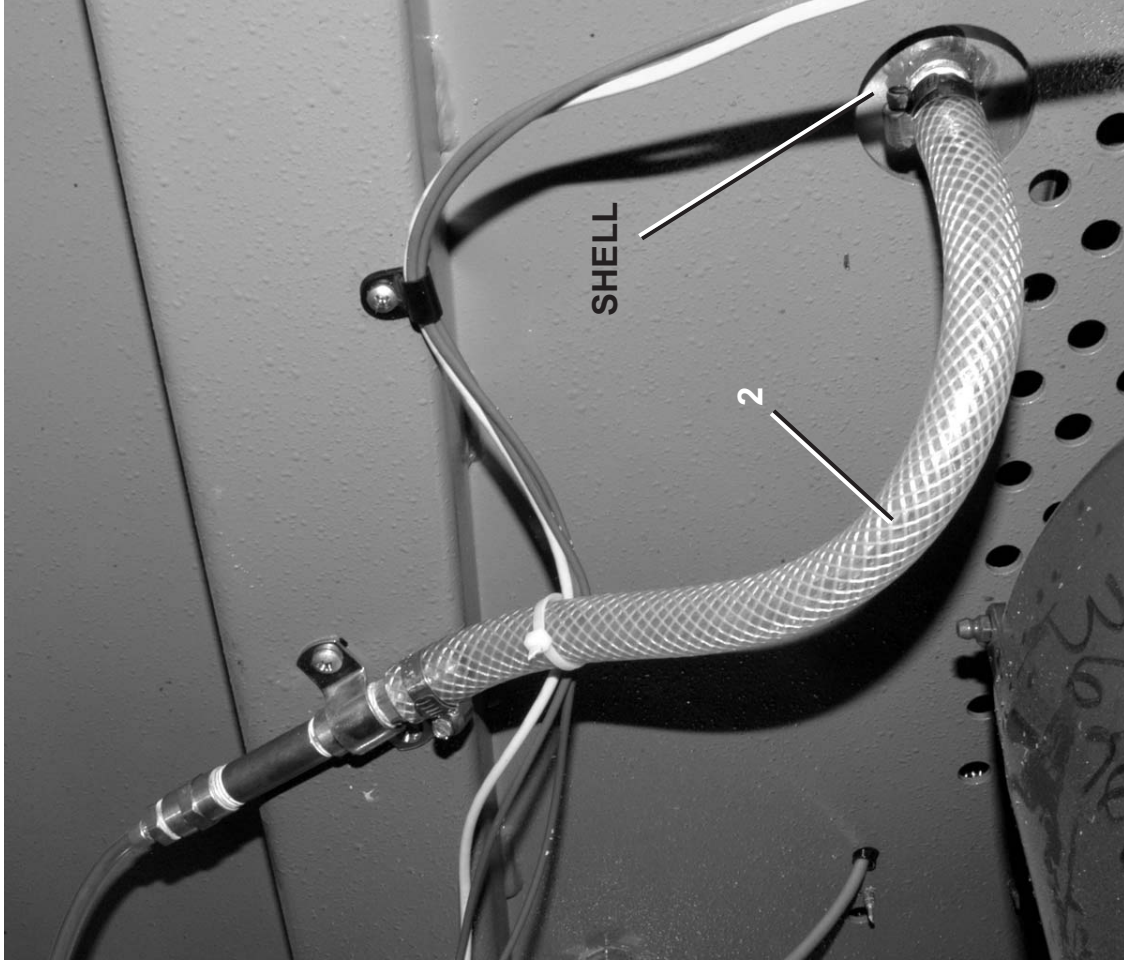
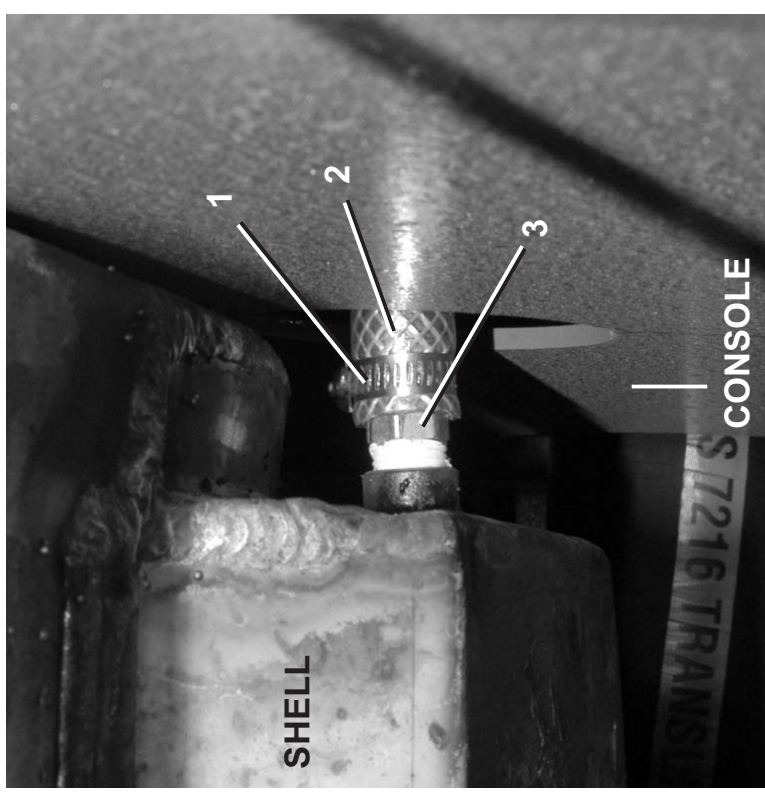
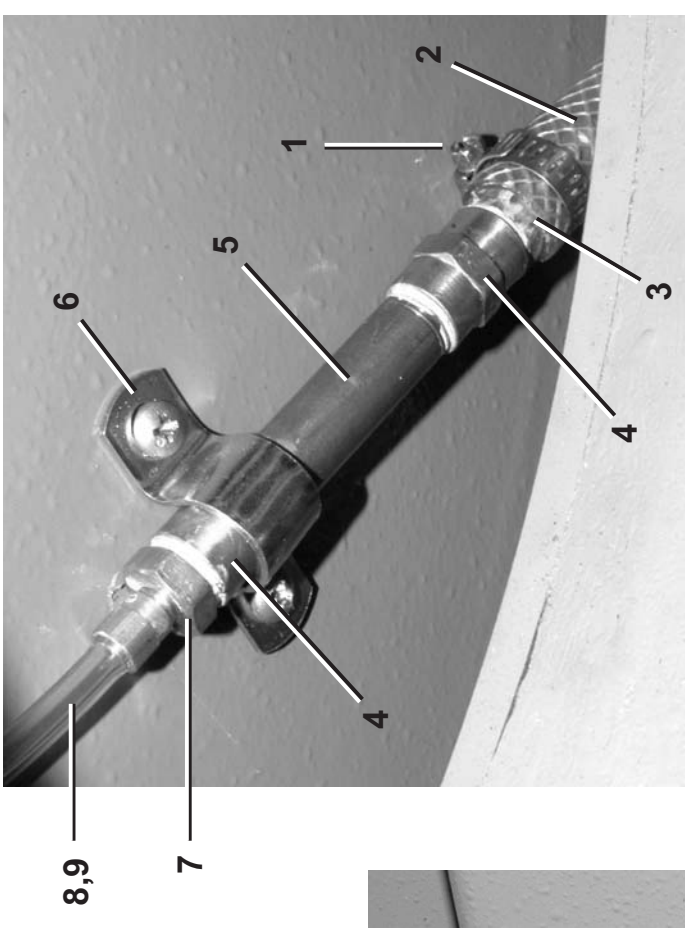
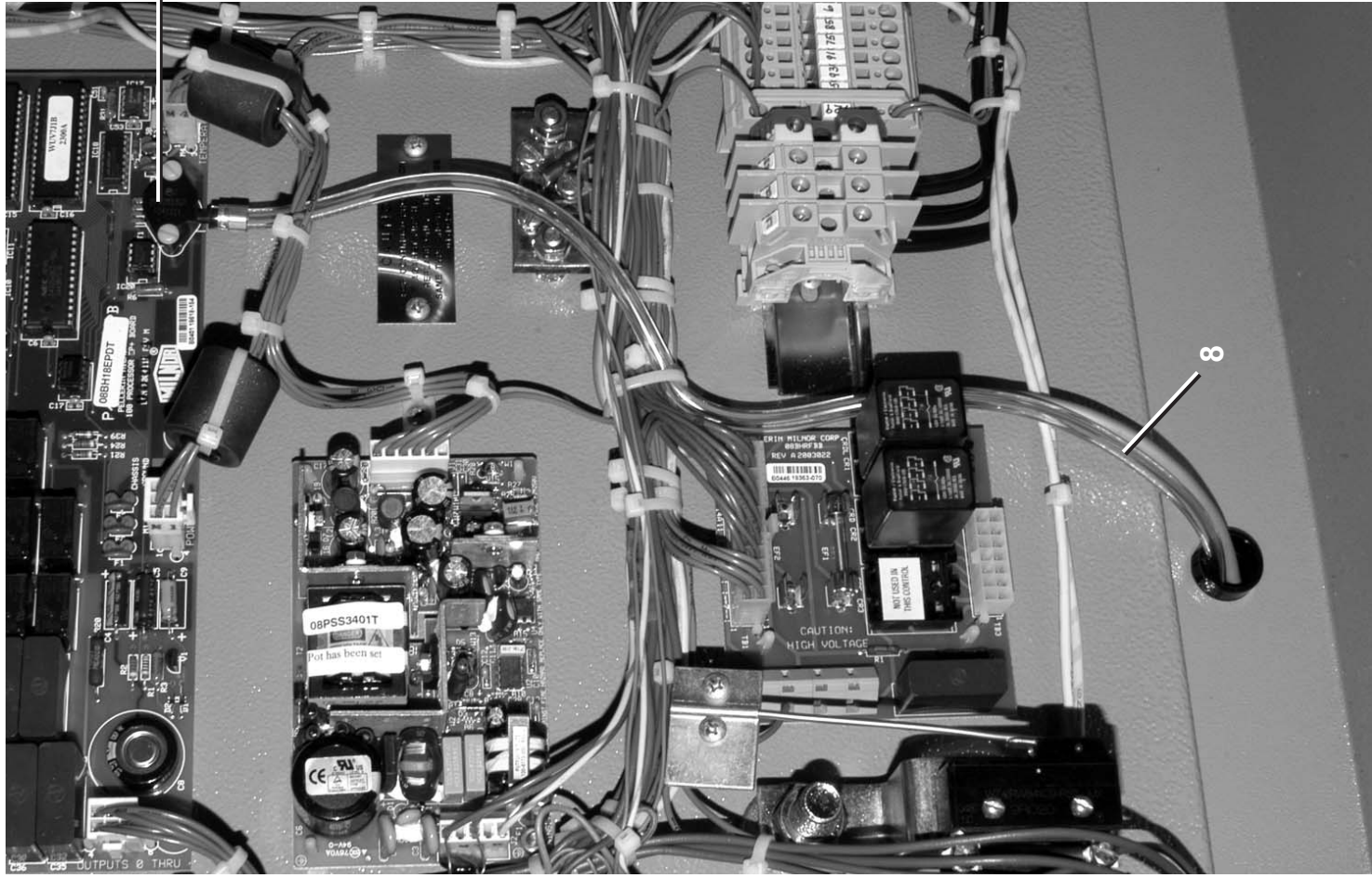
36021V5J 36026V5J,V7J 42026V6J, 42030V6J

BMP050027/2012383B  
(Sheet 1 of 2)



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**Parts List—Level Sensing**

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	1	27A040	HOSECLAMP 5/16-7/8SSSSCR#3606	
all	2	60E006C	PVC TUBING NYL.REINF.5IDX.75OD	
all	3	51E507	HOSESTEM BRASS 1/4MPX1/2HOSEID	
all	4	5SCC0EBE	NPT COUP 1/4 BRASS 125# W/HEX	
all	5	5N0E02KBE2	NPT NIP 1/4X2.5 TBE BRASS STD	
all	6	12K076	STRAP 1/2"TW CONDUIT 2-HOLE	
all	7	51E502B	HOSESTEM BRASS 1/4MPX1/8HOSEID	
all	8	60E004NT	TUBING (NYL.)CLR.1/4"ODX1/8"	
all	9	12P016	CABLE CLMP-BLACK UL APPROVED	

**Section**

**6**

**Chemical and Supply  
Devices**

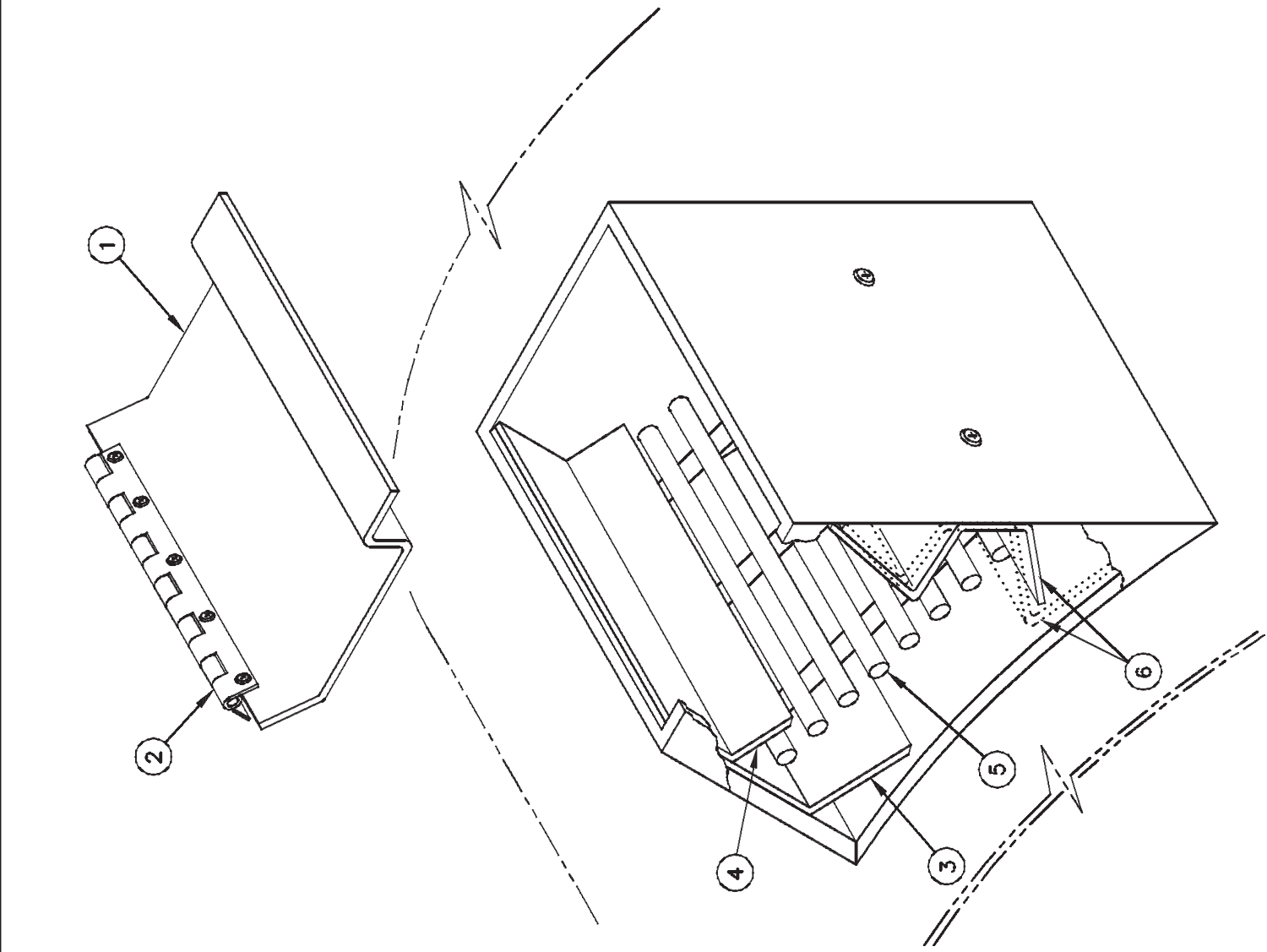
# Soap Chute Assembly

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	-
W		AD 02 013A	80182C SOAP CHUTE ASSY - BALCOM	36TMM,OEW,CPE,NSP,BWP
X		GG514804	89063# SOAP CHUTE INSTL 36RWP	36021/36026V5J,36026V7J 36021/36026QXX 3621C4E
Y		GG5119002	89063D SOAP CHUTE INSTL 42RWP	42026V6J,42030V6J 42026QXX
Z		SA 02 065	81223B COVER ASSY=SOAP CHUTE	CONTAINS 1 & 2
-	-	-	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	



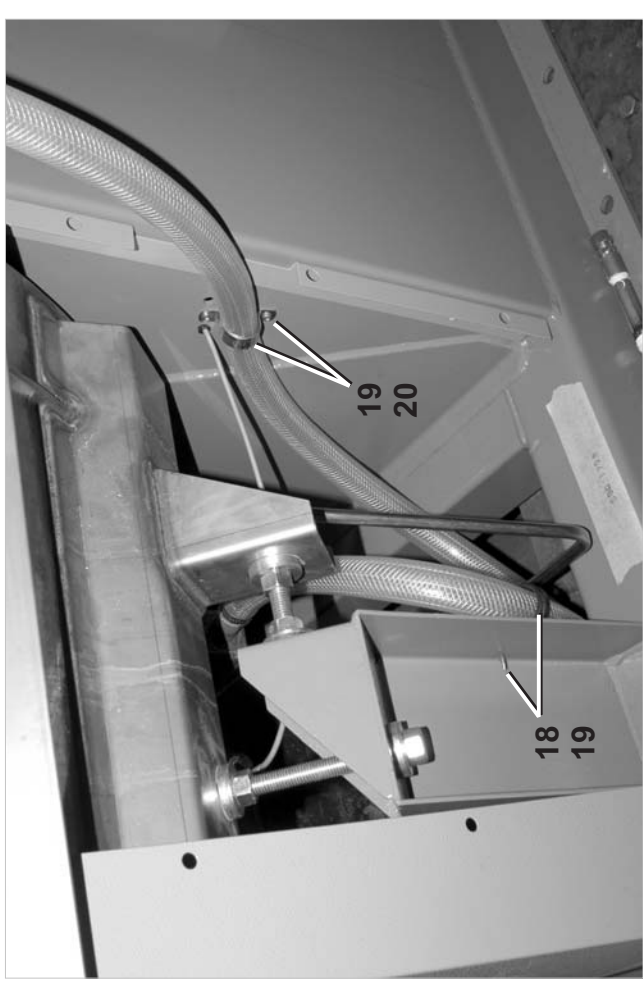
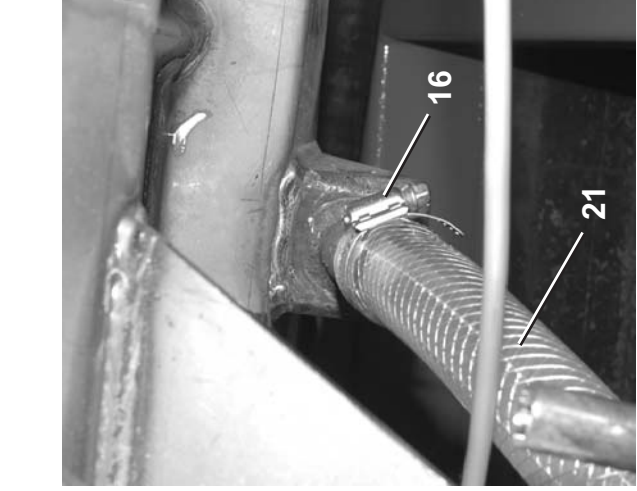
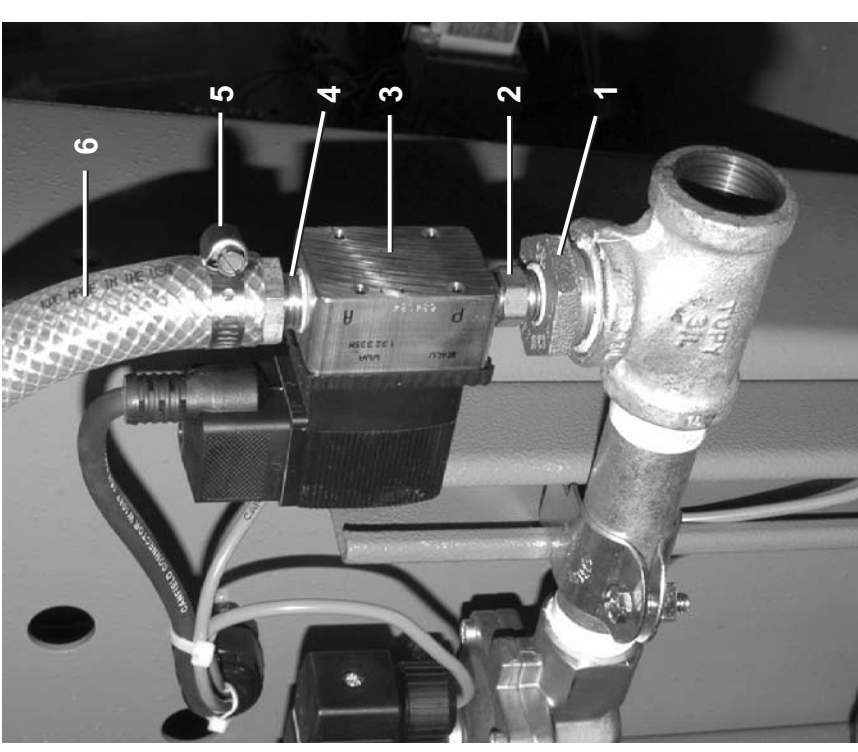
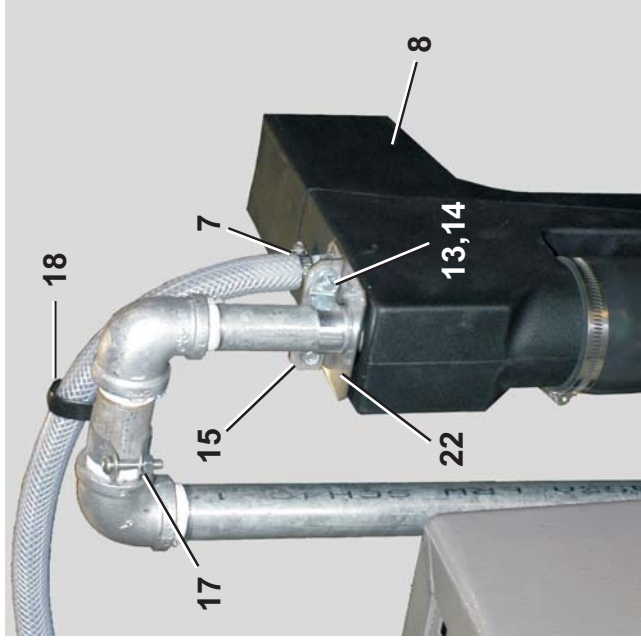
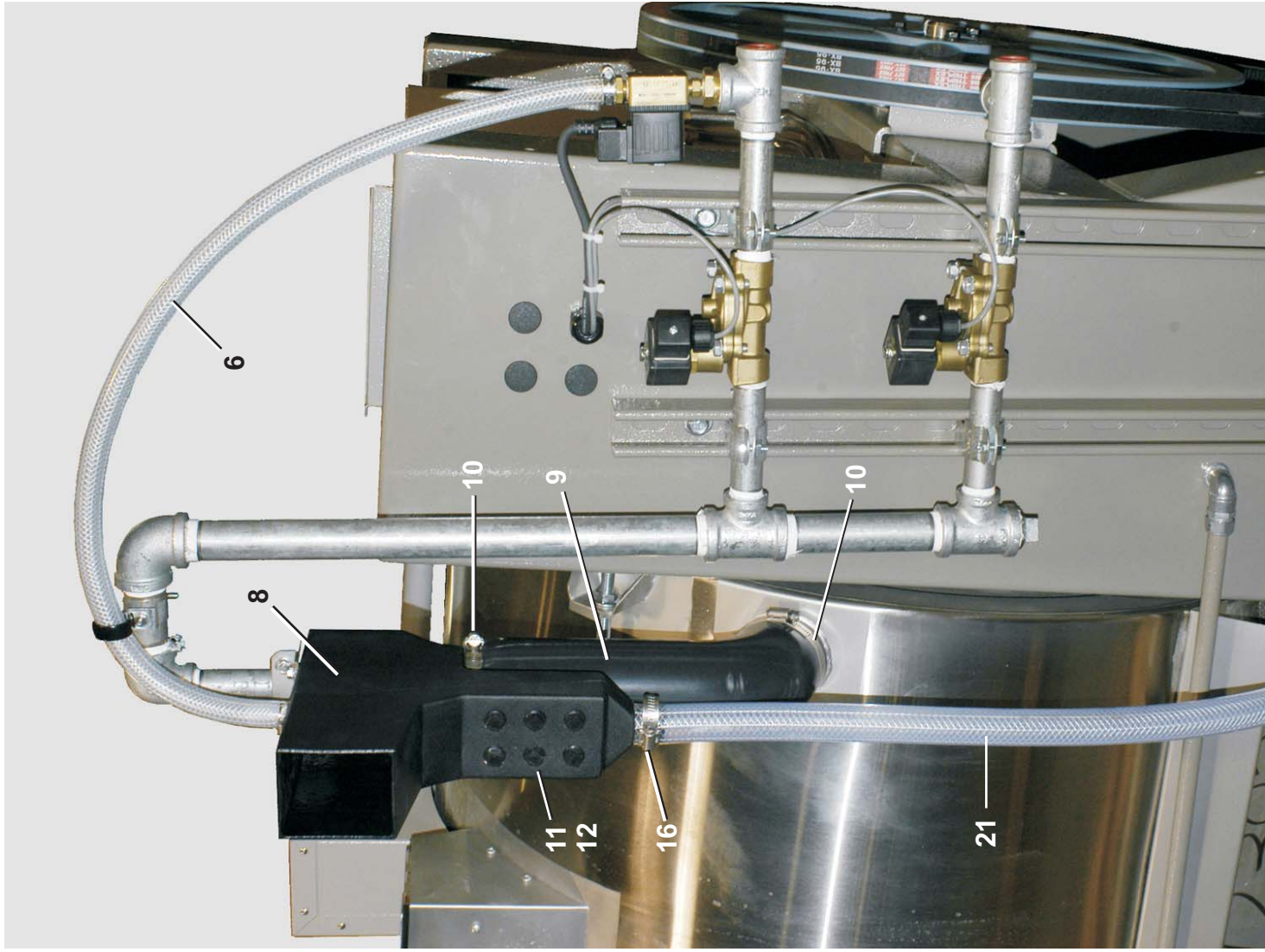
**Peristaltic Supply Assembly**  
**36021V5J, 36026V5J, 36021V7J, 36026V7J**

BMP000043/2012383B  
 (Sheet 1 of 2)



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(36021V5J Shown)



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**Parts List—Peristaltic Supply 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
-----COMPONENTS-----				
All	1	5SB0P0EBEO	HEXBUSH 3/4X1/4 BRASS 125#	
all	2	53A026A	HEXPIP NIP.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	
	8	02 03588	PERISTALTIC/WATER INLET 3642	3621V_, 3626V_
	8	02 03588J	PERISTALTIC/WATER INLET 3022H	4226V_, 4230V_
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	



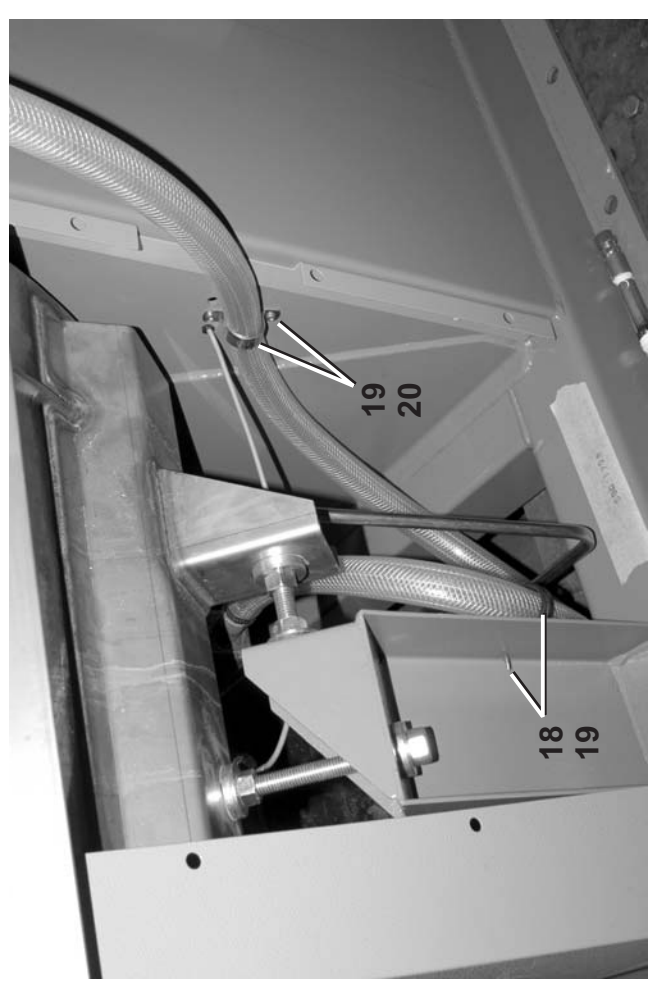
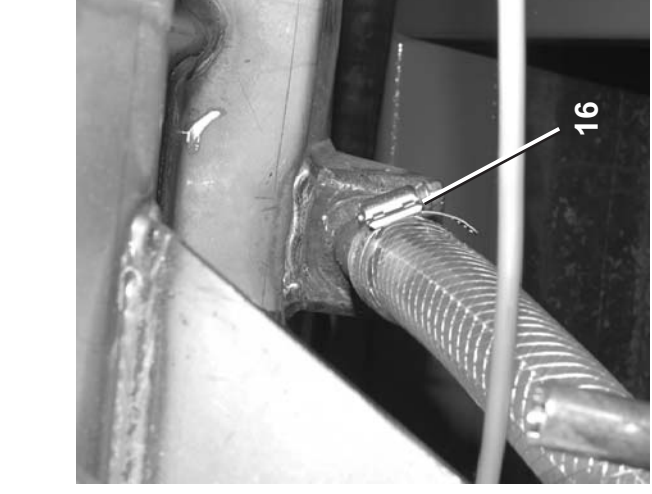
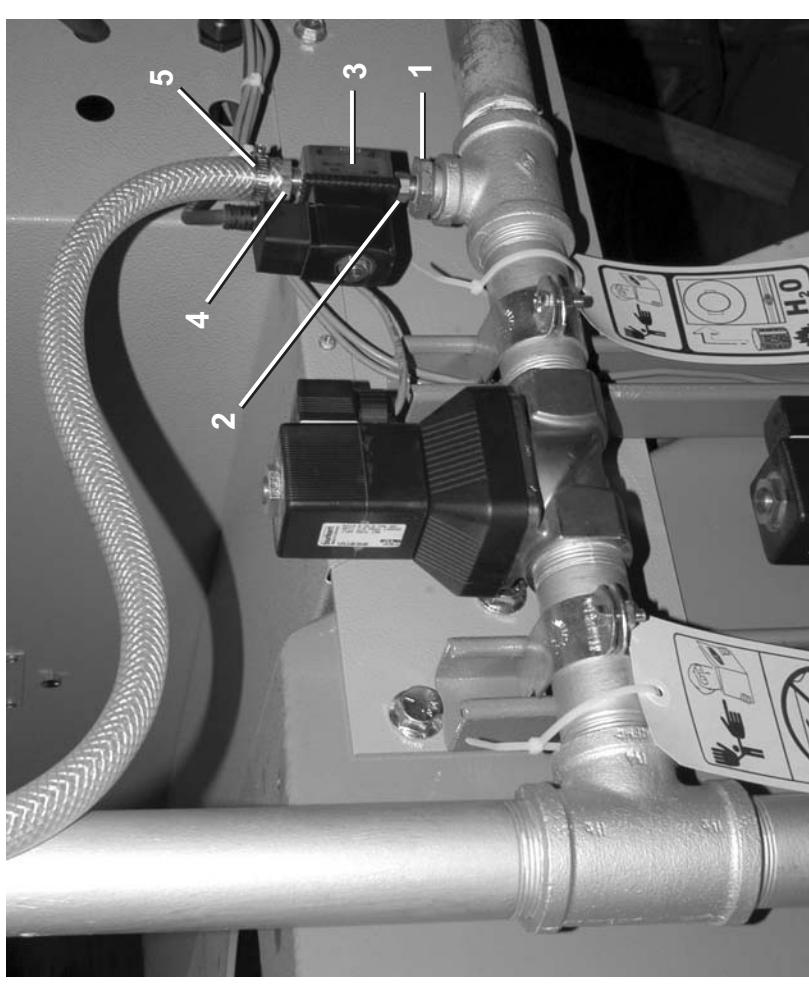
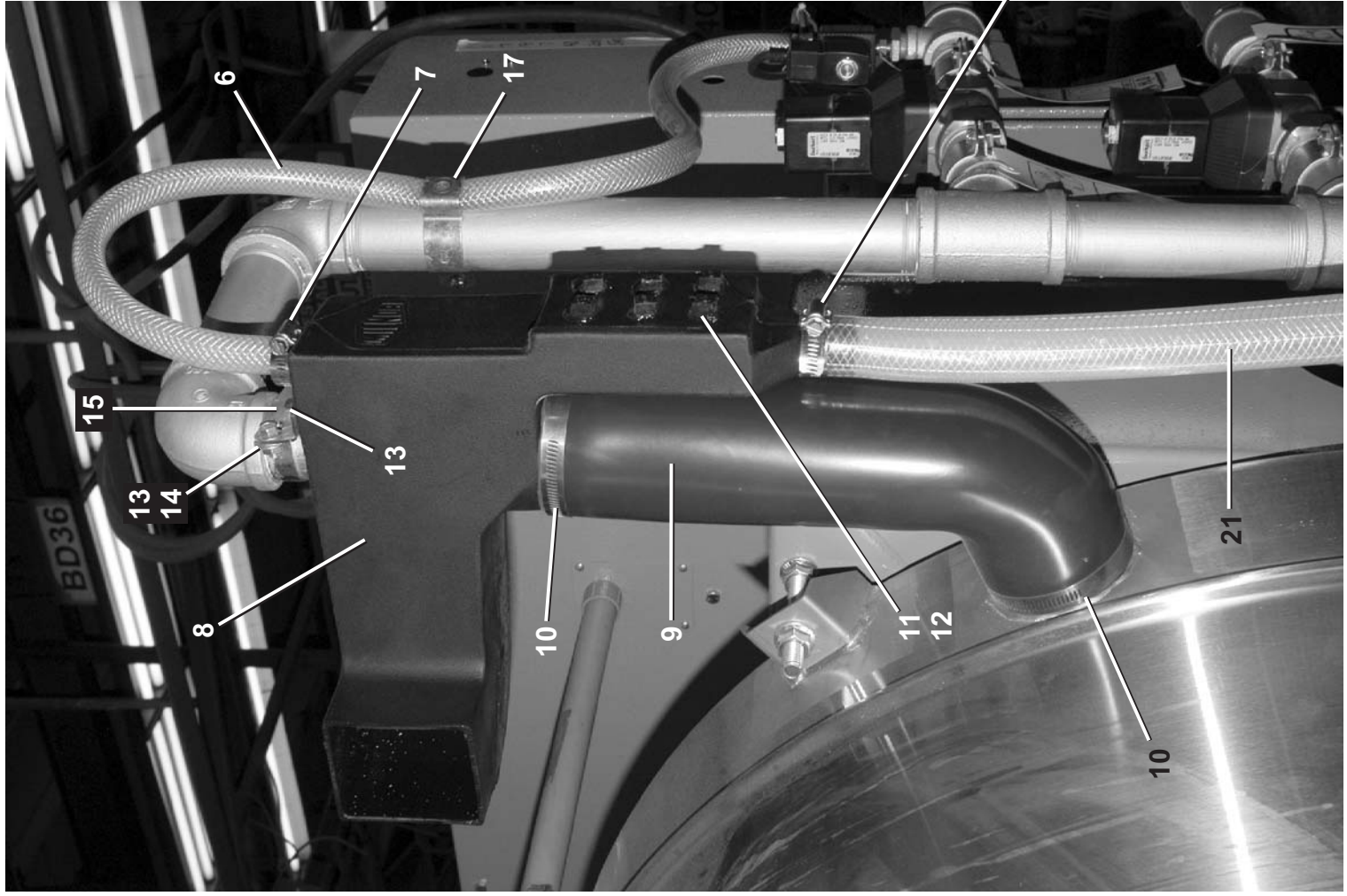
# Peristaltic Supply Inlet 42026V6J, 42030V6J

BMP090014/2012383B  
(Sheet 1 of 2)



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**Parts List—Peristaltic Supply Inlet**

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-----				
0	A	GA 33 058S	INST=H2O+PERSTAL INLET 36V 2001000/Z	42026V6,42030V6
-----COMPONENTS-----				
all	1	5SB0P0EBEO	HEXBUSH 3/4X1/4 BRASS 125# 03Z	
all	2	53A026A	HEXPIP/NIP.25X.25 AND#122A-B	
all	3	96P058A37	1/4"NPT X 1/8"ORIFICE 120V 5/6II	
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	
all	8	02 03588J	PERISTALTIC/WATER INLET 3022H	
all	9	02 03588C	3642 INLET HOSE	
all	10	27A082S	HOSECLAMP 2+9/16-3.5SS	
all	11	51PB0GN	PLUG PIPE 3/8"NPT	
all	12	20C040	SUPERFLEX SILICONE ADH	
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	
all	17	12C055H	1 1/2" CONDUIT HANGER	
all	18	27A023A	CLAMP RUBBER-CUSH STEEL	
all	19	15P053	8-18X3/4 PPHTEKSSW/MICROSPHERE	
all	20	12K105	1" STRAP CONDUIT 2-HOLE	
all	21	60E010	TUBINGPOLYBRAID 1"X1.312	

# 5 Compartment Supply

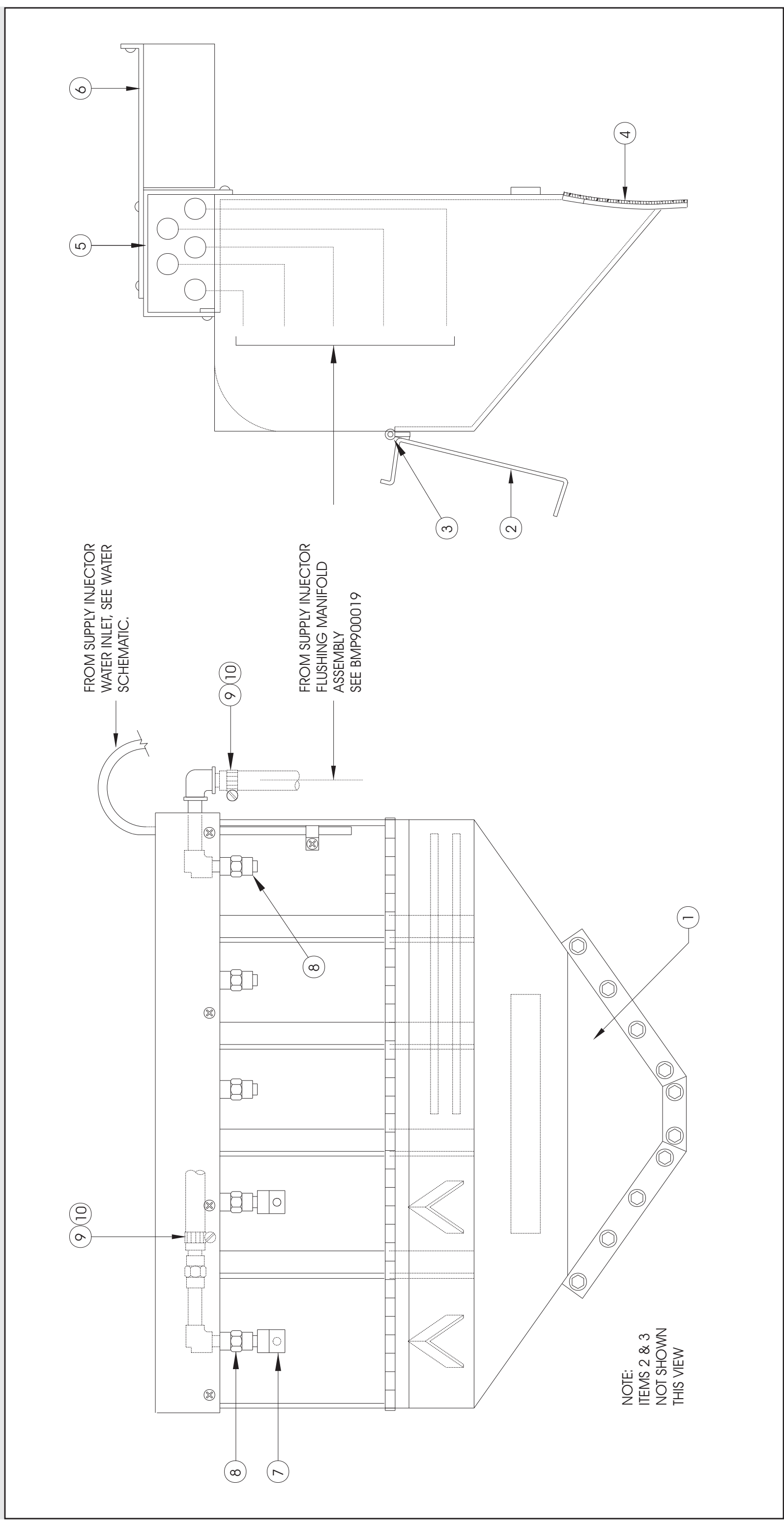
36021BWP, 36021/36026/42026Qxx, 36021/36026/42026/42030Vxx

BMP860026/2012383B  
(Sheet 1 of 2)



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**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	NPTEL B 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

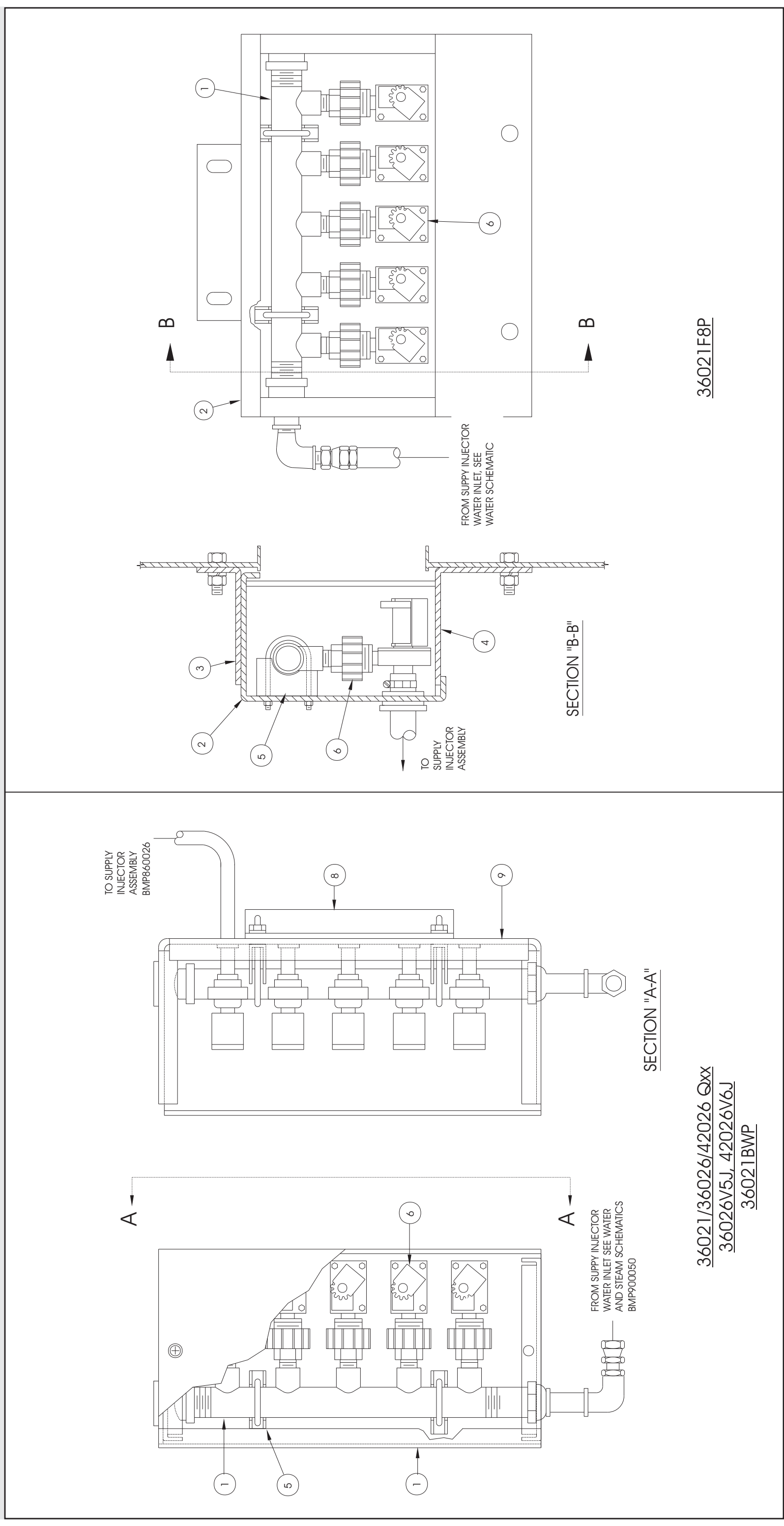
36021F8P, 36021BWP, 36021/36026/42026Qxx, 36021/36026V5J, 36026V7J, 42026V6J, 42030V6J

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



**Section**

**7**

# **Water Piping Assemblies**

# Schematic Symbols Key

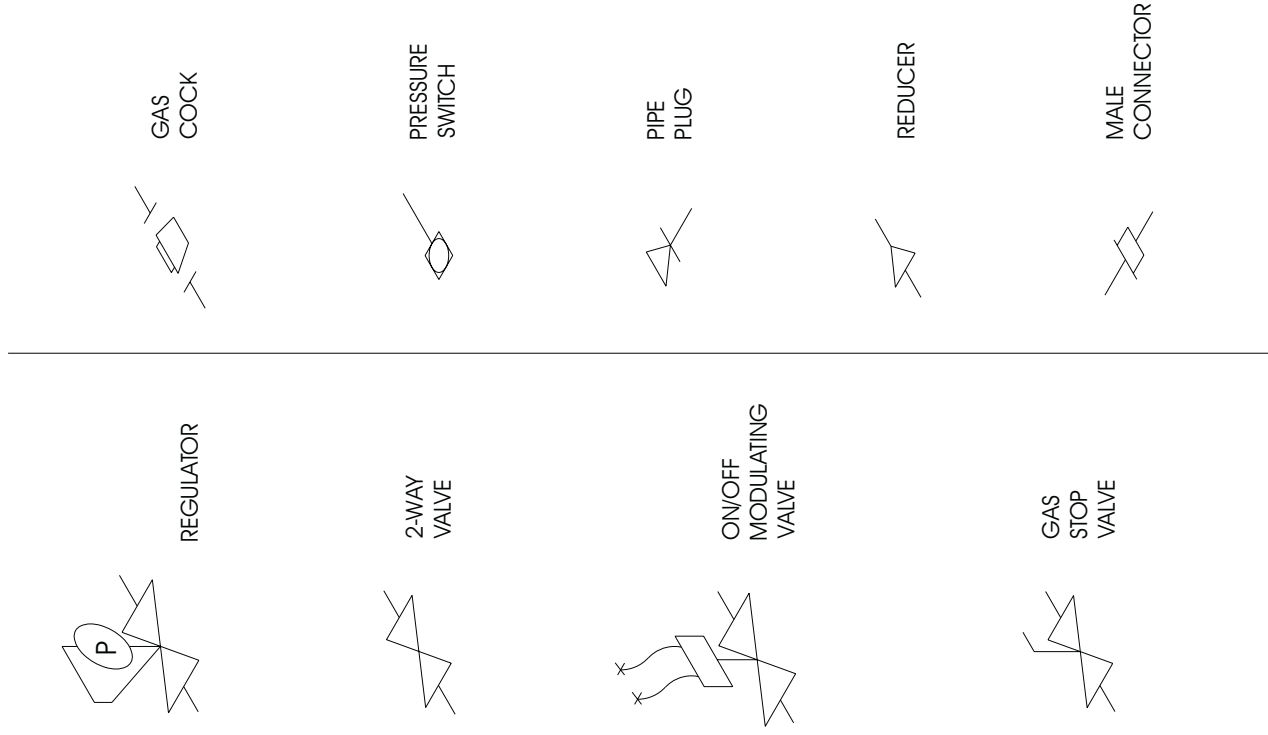
BMP920008/2000302V  
(Sheet 1 of 1)



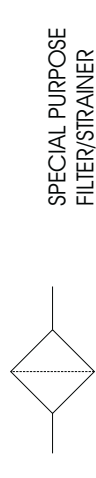
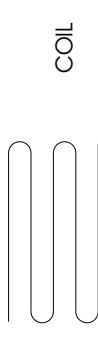
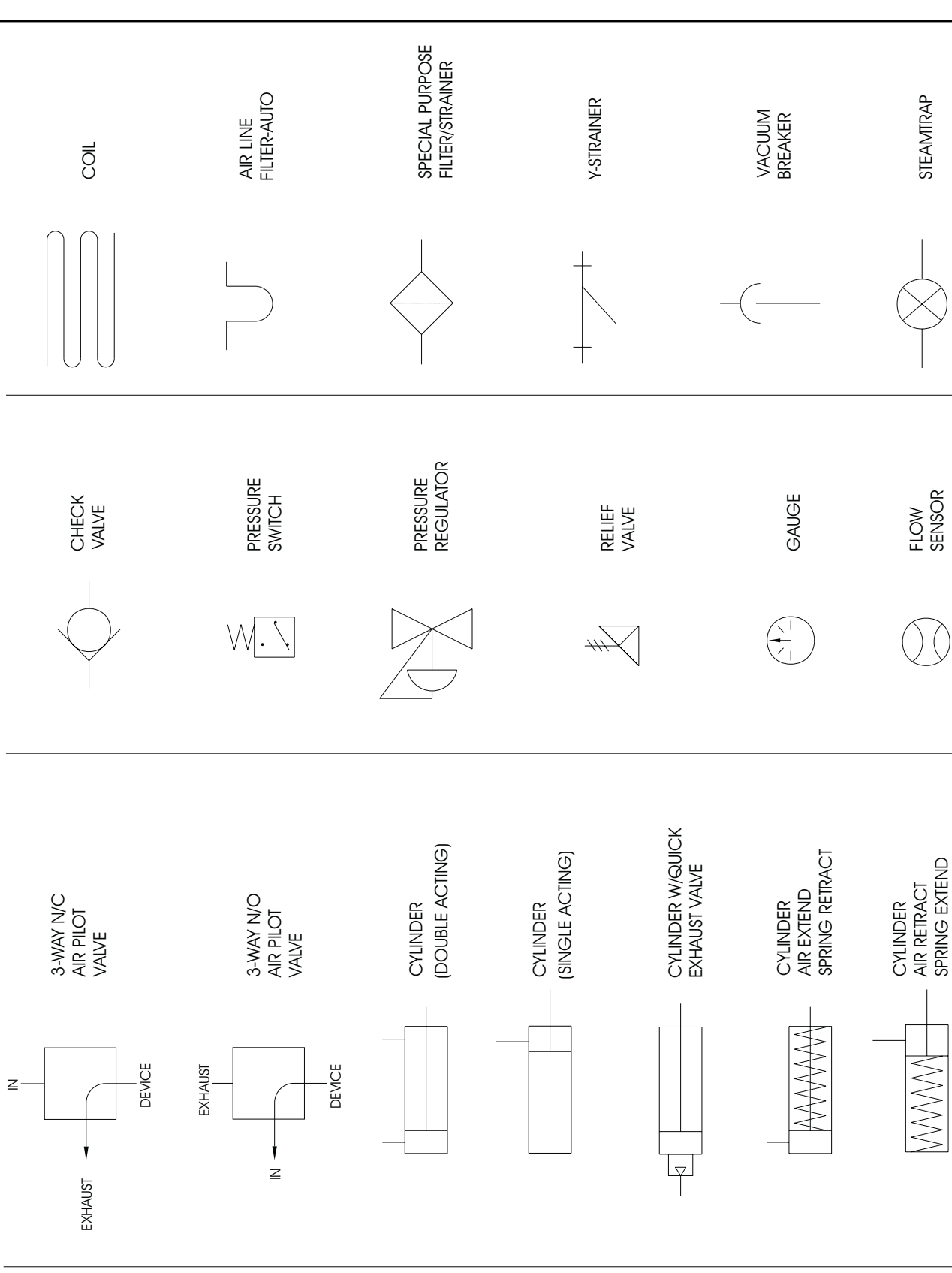
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## ISOMETRIC SYMBOLS



## STANDARD SYMBOLS



# Water Schematic

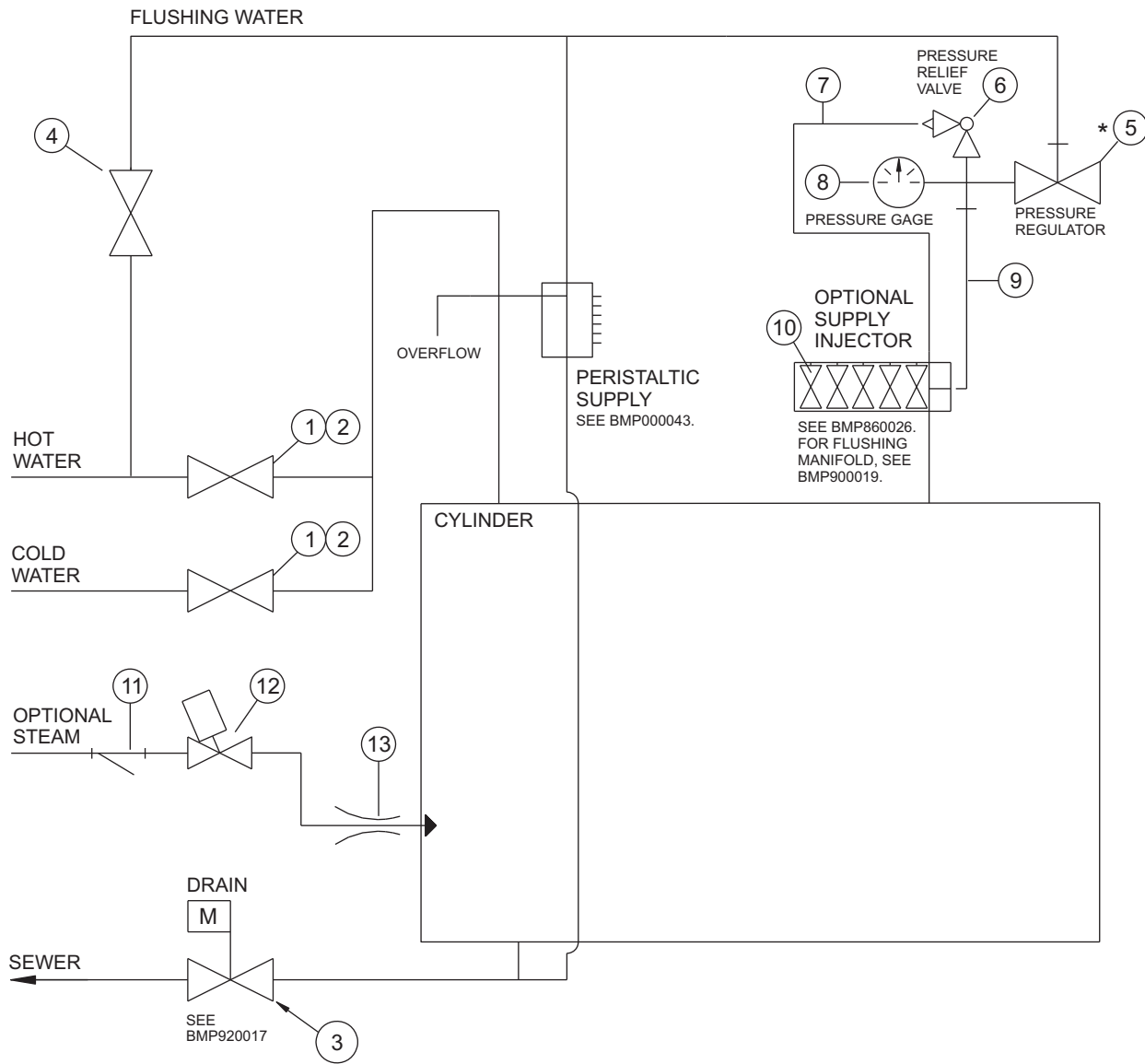
36021V5J, 36026V5J, 36021V7J, 36026V7J, 42026V6J, 42030V6J

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

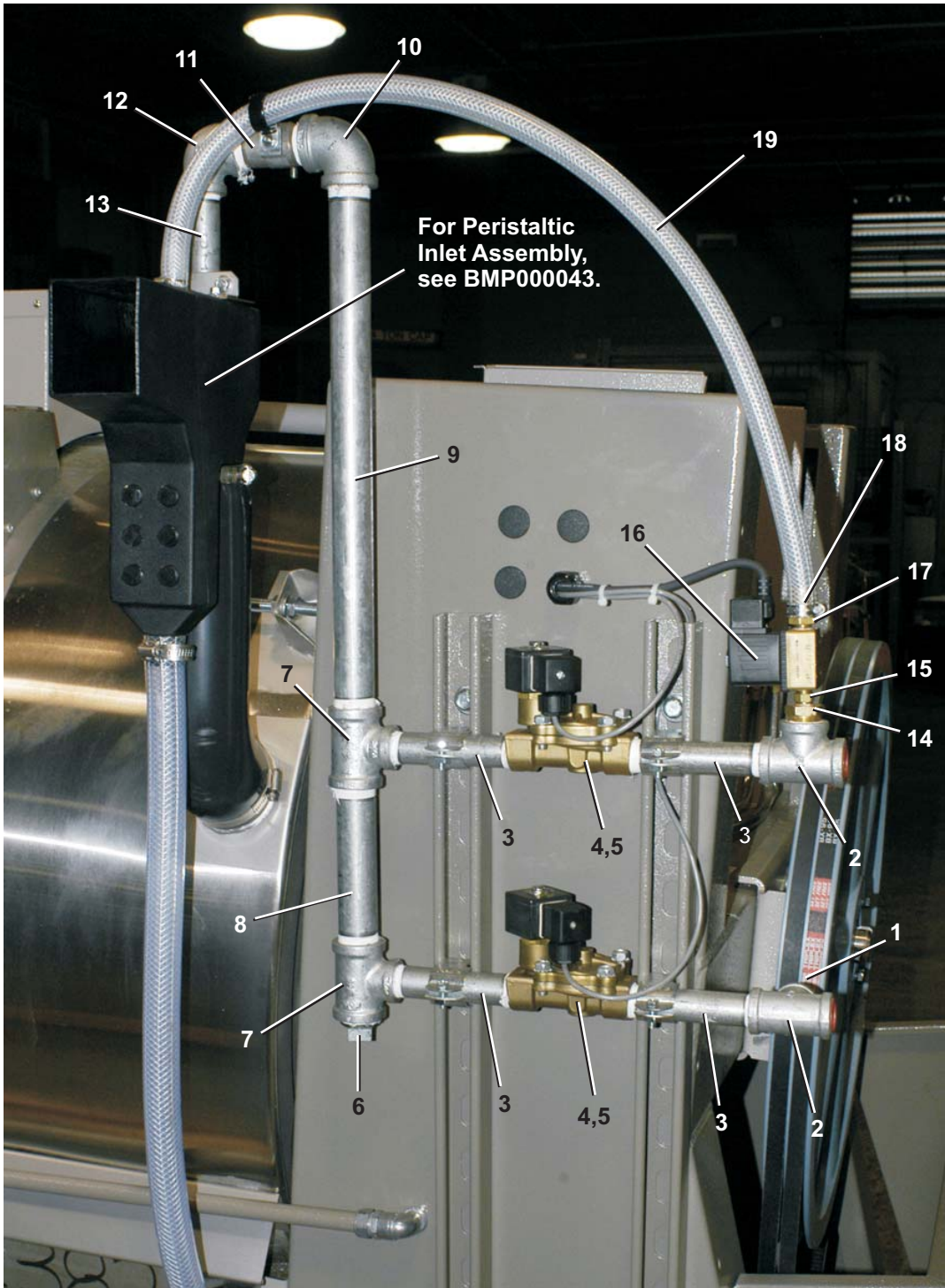
36021V5J, 36026V5J, 36021V7J, 36026V7J, 42026V6J, 42030V6J

BMP120030/2012383A  
(1 / 4)



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36021V\_, 36026V\_

# Water Inlet Assemblies

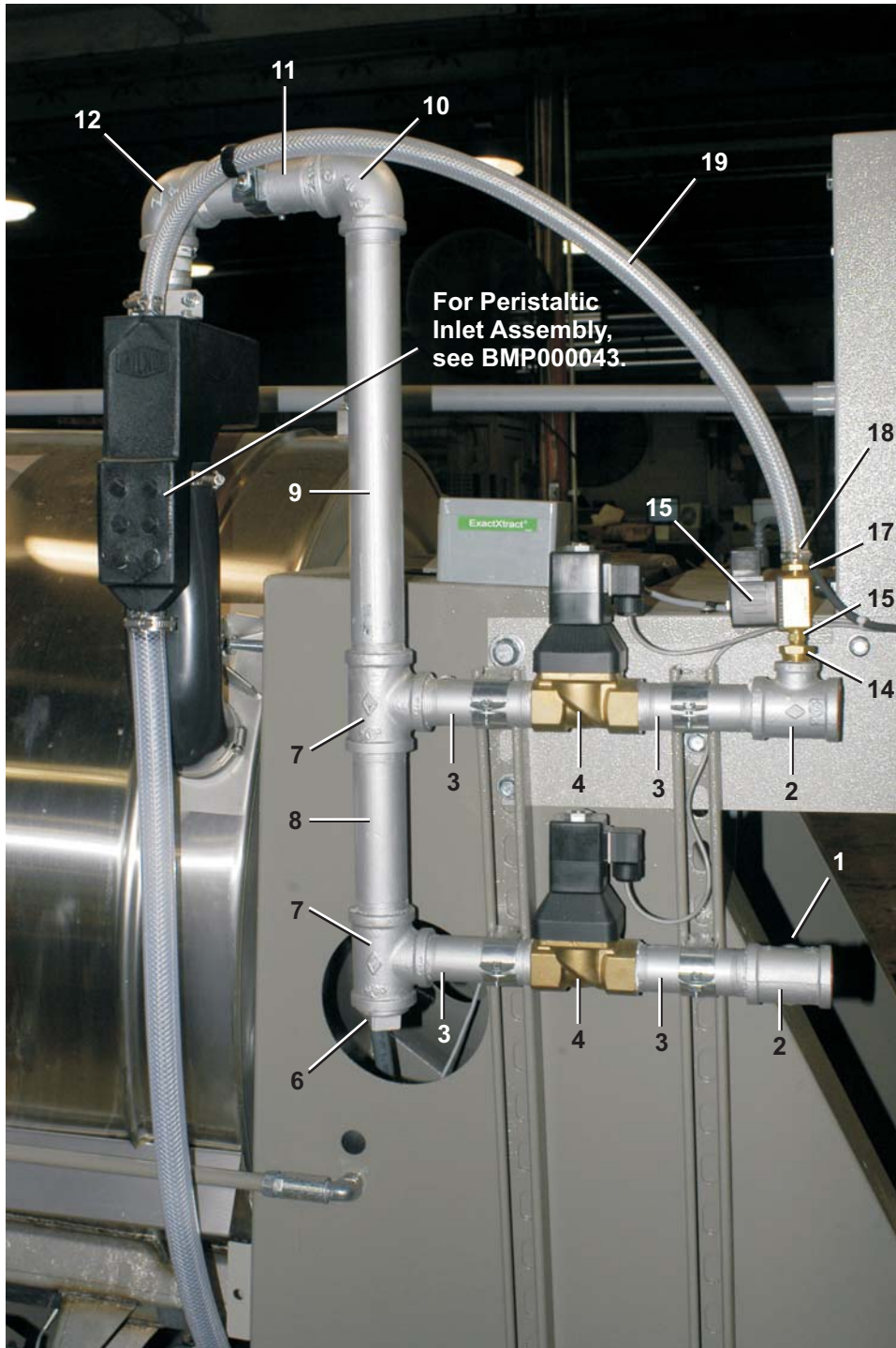
36021V5J, 36026V5J, 36021V7J, 36026V7J, 42026V6J, 42030V6J

BMP120030/2012383A  
(2 / 4)



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42026V\_, 42030V\_



# Water Inlet Assemblies

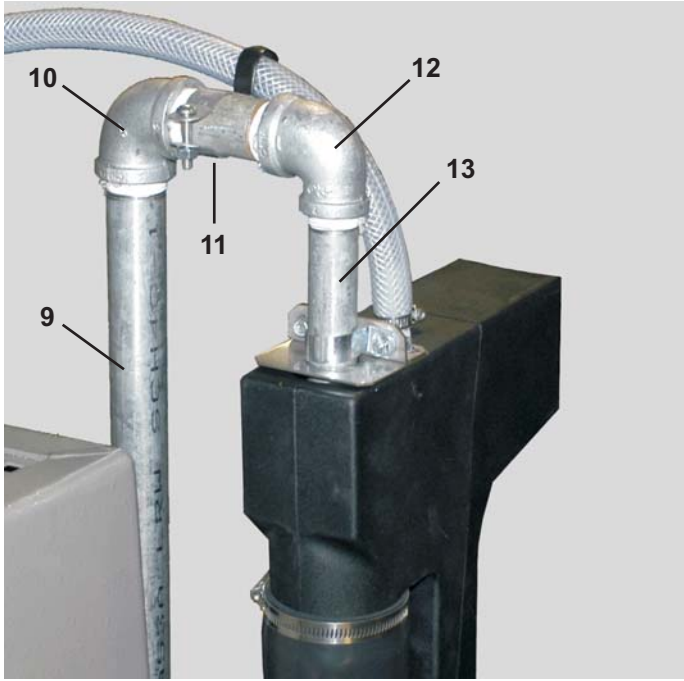
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(3 / 4)

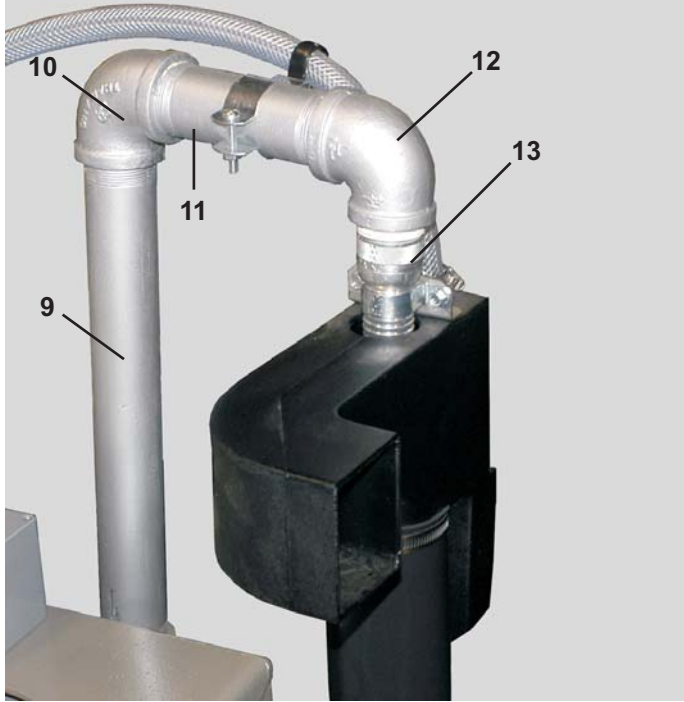


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36021V\_, 36026V\_



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

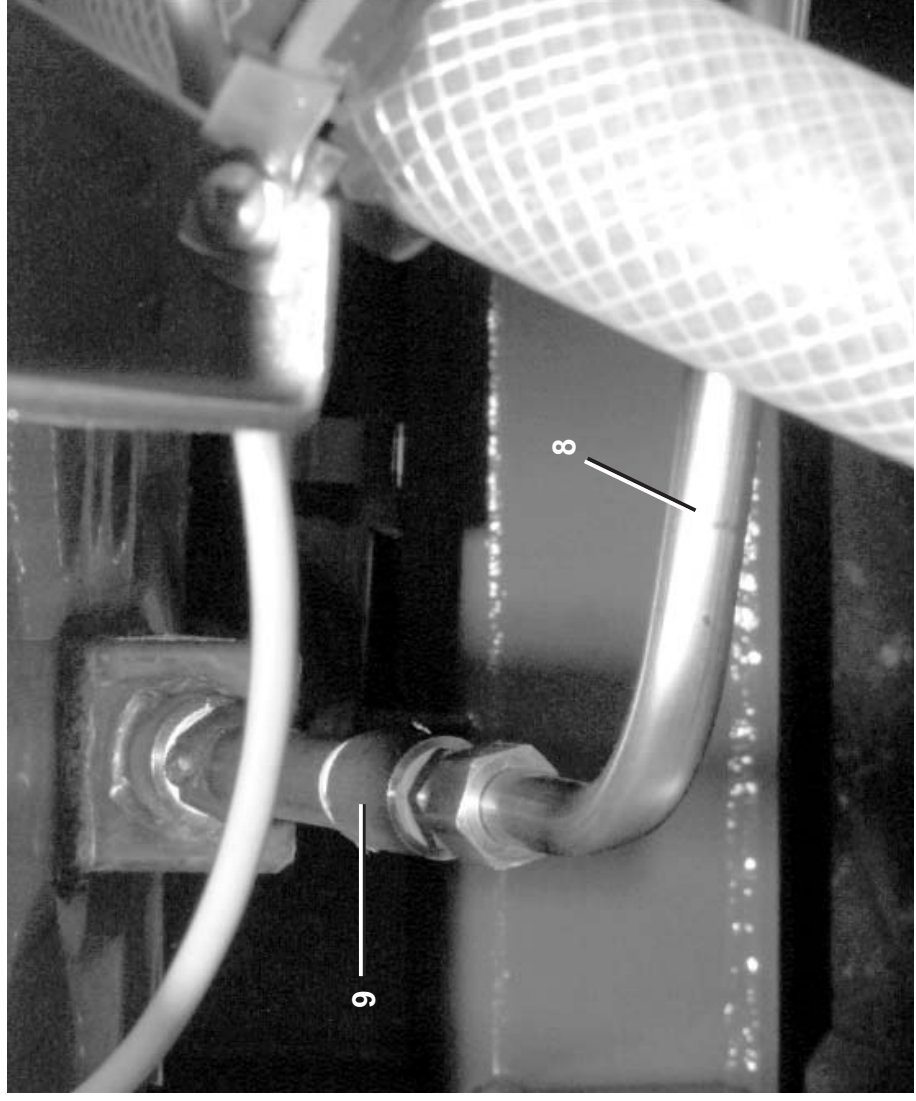
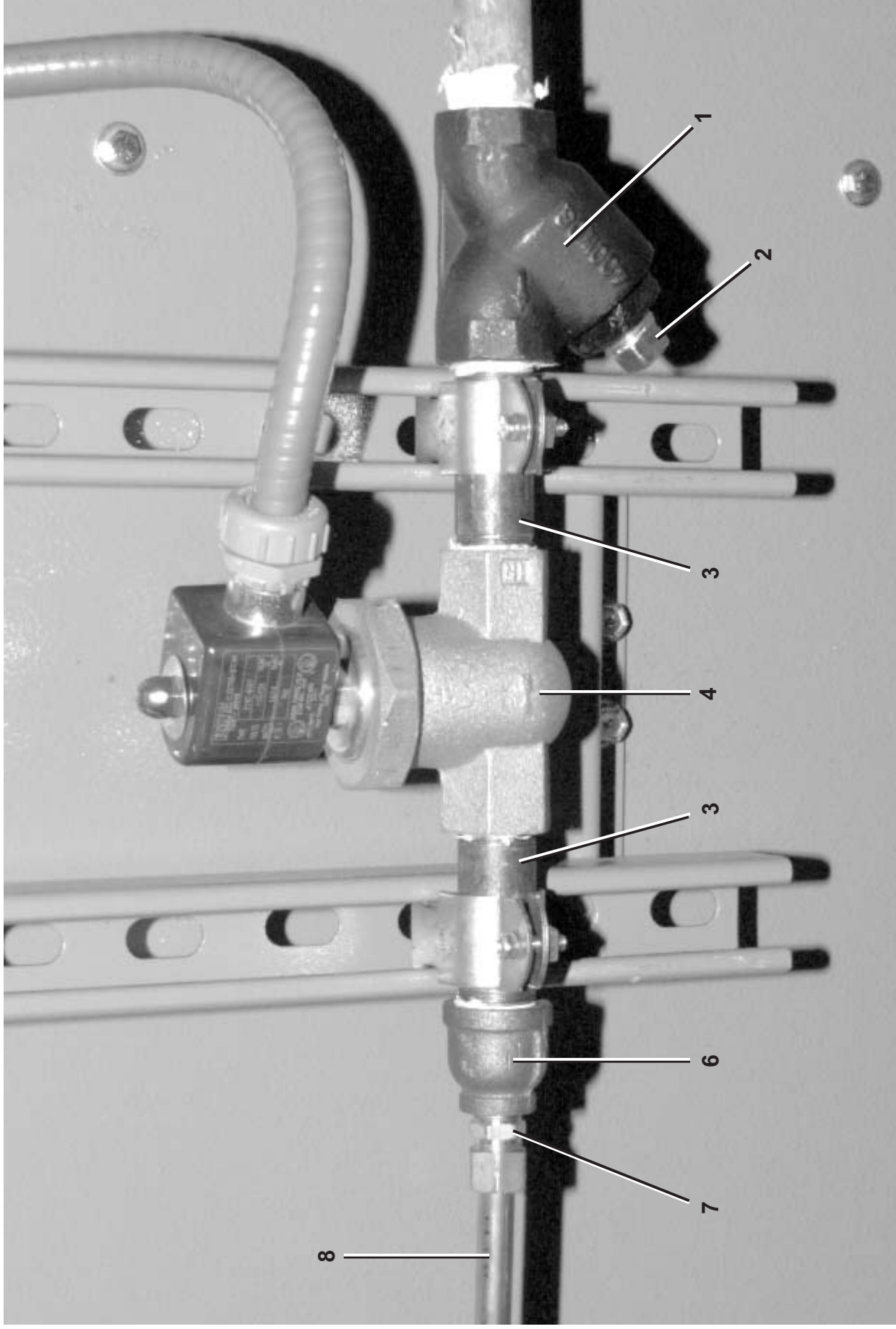
36021V5J, 36026V5J, 36021V7J, 32026V7J, 42026V6J, 42030V6J

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(Sheet 1 of 2)



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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

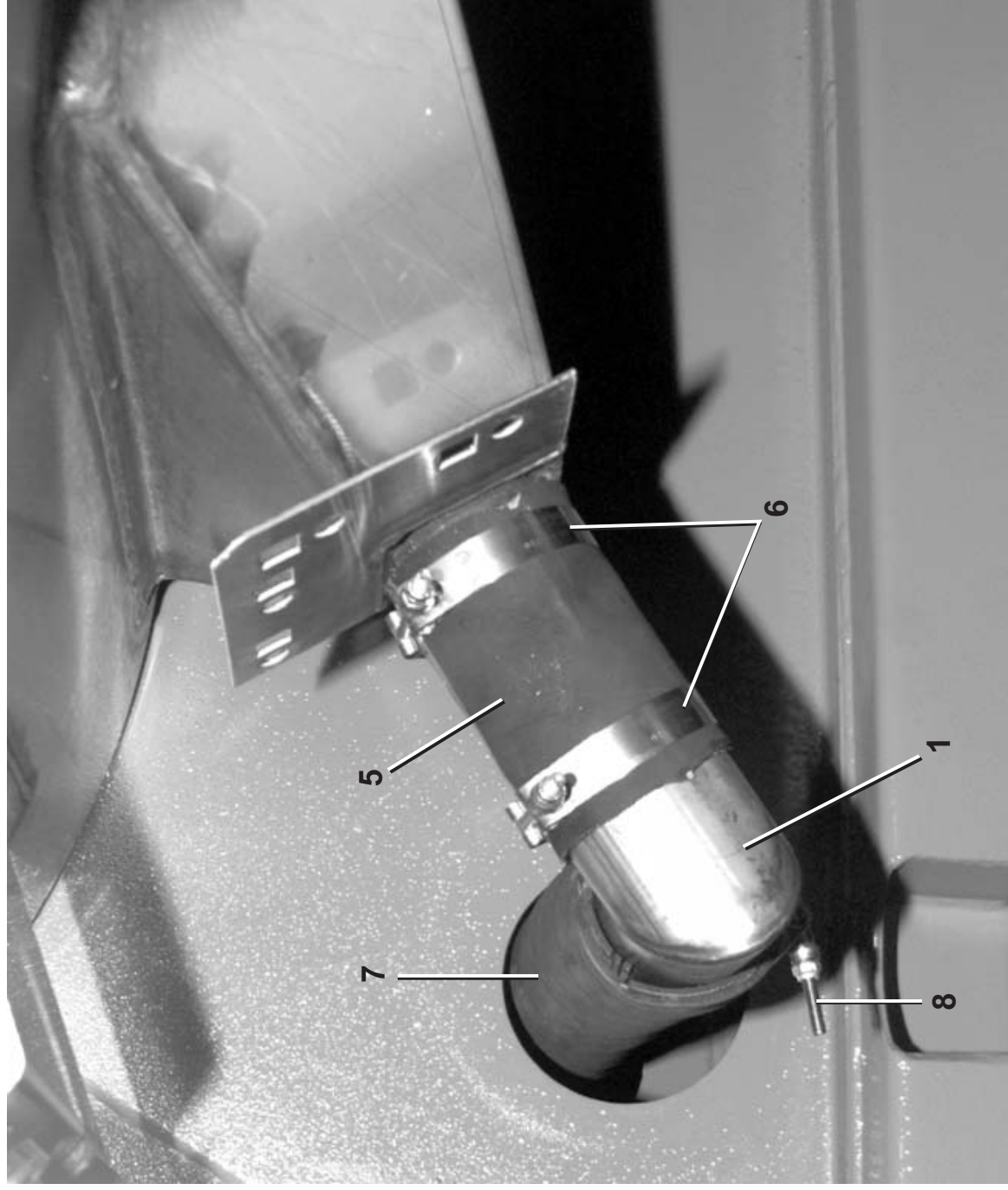
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(Sheet 1 of 2)



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**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	

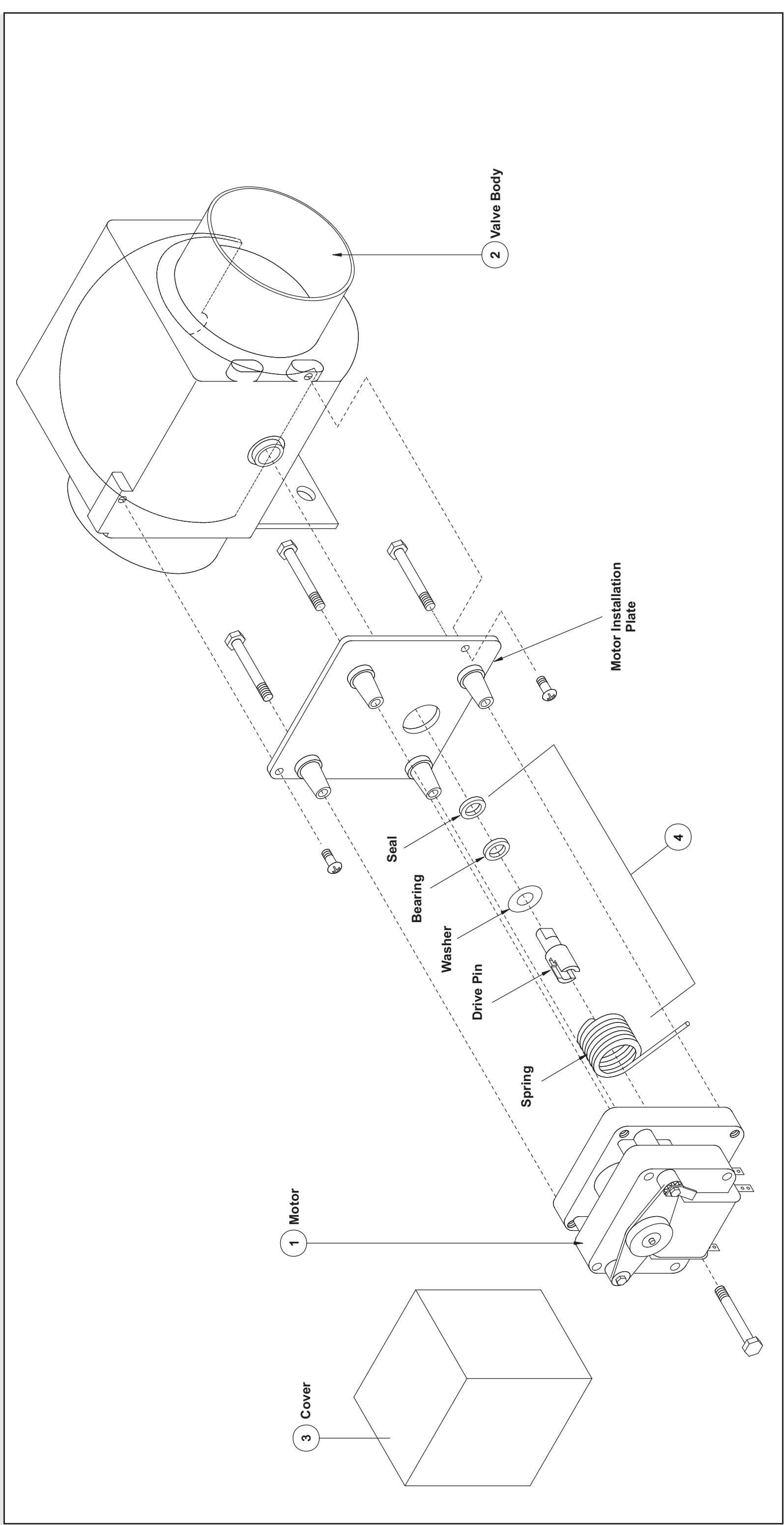
# 3" Electric Drain Valve

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**Parts List—3" 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	DRNVAL 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	BODY & BALL FOR 3" DRAIN VALVE	
all	3	96D35C0V	MTRCOVER 2-PCFOR 3"DRAINVAL	
all	4	96D35PIN	DRIVE PIN KIT FOR 3" DRAIN VAL	