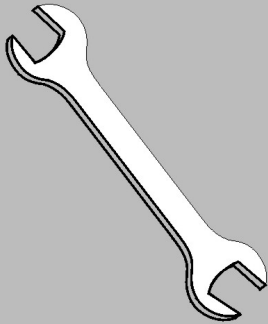


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Kit Instruction— KHA STM SJ01



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

Please Read

About the Manual Identifying Information on the Cover

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

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

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ADDING STEAM and/or TEMPERATURE CONTROLS TO 300xx MxJ & SxJ

Required Tools

- 1) Basic hand tools- screwdrivers, wrenches $\frac{3}{8}$ " to $\frac{3}{4}$ ", sockets, ratchet, etc.
- 2) $\frac{3}{8}$ " drill and assorted drill bits.
- 3) Hole cutters – 1", 3", 5.25"
- 4) Tig welding equipment and shielding gas for Stainless steel 304

Preparation

- 1) Remove power from machine.
- 2) Remove top cover and belt guard.
- 3) Turn off and disconnect the water supplies.
- 4) Remove fill-hose and nipple from shell bung.
- 5) Remove the shell front and door assembly.
- 6) Remove the cylinder (basket).
- 7) Remove the shell.
- 8) Remove the standard snubber board.
- 9) Remove the processor board.

Modification of Shell and Console

- 1) Mark and cut hole in front console for access plate as per drawing (BD3020M5AB/94042D) right side #2. This hole is to be 5.25" in diameter, 8.5" to C/L from edge and 7" from top of console.
- 2) Mark and cut a hole in the shell side to accept the steam elbow. This elbow must be welded to the shell below the water line, see drawing BMP920021/93251V.
- 3) Starting at the rear of the console drill a 1" hole 18.75" from bottom and 3.5" from outside edge, see drawing BD3022M5AB/94042D.
- 4) Mark and drill 3" hole in rear of front console 18.75" from bottom and 3.25" from inside edge. This hole will accept the steam pipe weldment, part # W2 03609, and will be attached using the four mounting holes provided in the weldment.

Reassemble – Mechanical

- 1) Connect all plumbing for the steam connection and reinstall the shell making final steam line connection from steam pipe weldment, item #4 (BMP920021), to steam elbow, item #1 using 2.5" i.d. X 10" long hose, item #3.
- 2) Install the cover plate to right side of console.
- 3) Reinstall basket and shell front.

Installation – Electrical

- 1) Install the A/D Board to the processor board using the four nylon screws, spacers and nuts provided with the board. Connect the ribbon cable from the A/D board to the processor board, observing the pin numbering, the stripe on the ribbon indicates pin one.
(1) Reinstall the processor/ A-D board.
- 2) Install the wiring harness provided with the auxiliary output board. This harness must follow existing wiring and be secured with tie wraps. Install with the MTA-9 connection to the upper left edge of the processor board.
- 3) Install the 10-pin plug marked MTA-9 to the processor board. The other end is MTA-29, and is connected to the matching connector on the auxiliary output board. There are two additional MTA connectors, MTA-30 and MTA-31. These are to be attached to the auxiliary snubber board MTA-30 and MTA-31 respectively.
- 4) Position, mark and drill as required to mount the bracket for the snubber, auxiliary snubber and output boards. Install these boards to the bracket and mount the bracket to control pane.
- 5) Install the temperature probe to the special tee attachment to the sump fill line. Wire the probe to the A/D board input, pins 1 & 2.
- 6) Connect 2MTA30-1 to MTA24-1 wire 011, 2MTA30-2 to the steam valve “A” side of coil, and the “B” side will be connected to wire 006, MTA32-8.
- 7) Reestablish power and water connections.

Testing

- 1) Power up machine, allow warm up time delay.
- 2) Insert the program key and turn to program. Scroll to menu 2 - CONFIGURE. Select the following decisions;

- | | | |
|------------------|--------------|----------------------|
| A) TEMP CONTROL? | 0=NO 1=YES | Set to 1 |
| B) TEMP UNITS? | 0=F 1=C | Set to desired range |
| C) STEAM ERROR | 0=NO STEAM | Set for 2 |
| | 1=5 MINUTES | |
| | 2=10 MINUTES | |
| | 3=20 MINUTES | |

Using the NEXT key to accept the settings. When display reads “PROGRAM 0 MENU / OK TURN KEY TO RUN” turn the key and press the NEXT button. This will return you to normal operation.

- 3) Insert the key into the TEST/AUTOMATIC switch and turn to TEST, this will enter the test mode. The display will show “MANUAL MENU / 1 SOFTWARE DATE CODE. Press the scroll button to advance to “MANUAL MENU 3 / TEST OUTPUTS. Select output 20, press

the START button twice, 1 to select the output, 2 to turn the output on. Check the steam valve for operation. Depress the start button again to turn the output off.

- 4) Return the key to automatic and press NEXT display will read "RUN FORMULA / 00 OK TO POWER OFF". At this point you will need to adjust the formulas to accept steam and temperature.



(See other page for parts list, if applicable.)

30015,30020 & 30022 RIGID MOUNT WASHER-EXTRACTORS

BMP910035/93251V (Page 1)



DO NOT USE
LOCKTITE HERE.

DO NOT USE
LOCKTITE HERE.

DO NOT USE
LOCKITTE HERE.

* USE LOCKTITE (BEARING MOUNT GRADE) BETWEEN FRONT BEARING AND HOUSING ONLY.



PELLERIN MILNOR CORPORATION
700 JACKSON STREET/POST OFFICE BOX 400
KENNER, LOUISIANA 70063-0400 USA

PARTS LIST
(See other page for drawing.)

JACKSHAFT ASSEMBLY
30015,30020 & 30022 RIGID MOUNT WASHER-EXTRACTORS

BMP910035/93251V (Page 2)

ITEM	PART NUMBER	DESCRIPTION	HOW PART IS USED IN ASSEMBLY (Only if pertinent)
00A	SA 13 013	85242D\$ JKSHAFT ASSY DBLROW=	30020M4X,M5X,M7X+3022M4X,M5X
00B	SA 33 034	85251D\$ JKSHAFT ASSY SGLROW=CWE+C4	30015C4X,M4X,M6X+30020C4A,M4X+3022C5X
001	X2 03308	91212C HSG-JACKSHAFT=1/CWU+3626SWE	
002	02 13163	92233D JACKSHAFT=3626SWE	
003	17B135	EXT. RET RING 4000-200-ST-ZD	
004	17B155	EXTERNAL RETAINING RING	
006	54A070	BALLBEAR FAFNIR P205PP FA52908 1/BX	
007A	54A926	BALLBEAR DOUBLE ROW TYPE 5206	00A (DOUBLE ROW BEARING)
007B	54A080	BALLBEAR FAFNIR P206PP FA52908 1/BX	00B (SINGLE ROW BEARING)
008	20C005C	ADH/SEALANT 250 CC LOCTITE #271-41 ***** END OF PARTS LIST *****	

How to Read Parts List

Reference Item Numbers—Items 00A, 00B, 00C, etc., or 00X, 00Y, 00Z, etc., appearing at the top of **some** parts lists, are for reference and provide:

- The part number for the entire assembly depicted in the drawing or a major sub-assembly thereof, and/or
- The range of machine models this drawing applies to.

If more than one reference item appears, this usually means this drawing applies to more than one assembly (and thus to more than one range of machines).

Component Item Numbers—For any item on the drawing (e.g., item ①), there may be several corresponding items on the parts list (e.g., 001A, 001B, 001C, etc.) which are similar components on different assemblies. “How Part Is Used In Assembly” identifies which components apply to your machine, by listing either the machine model, or the



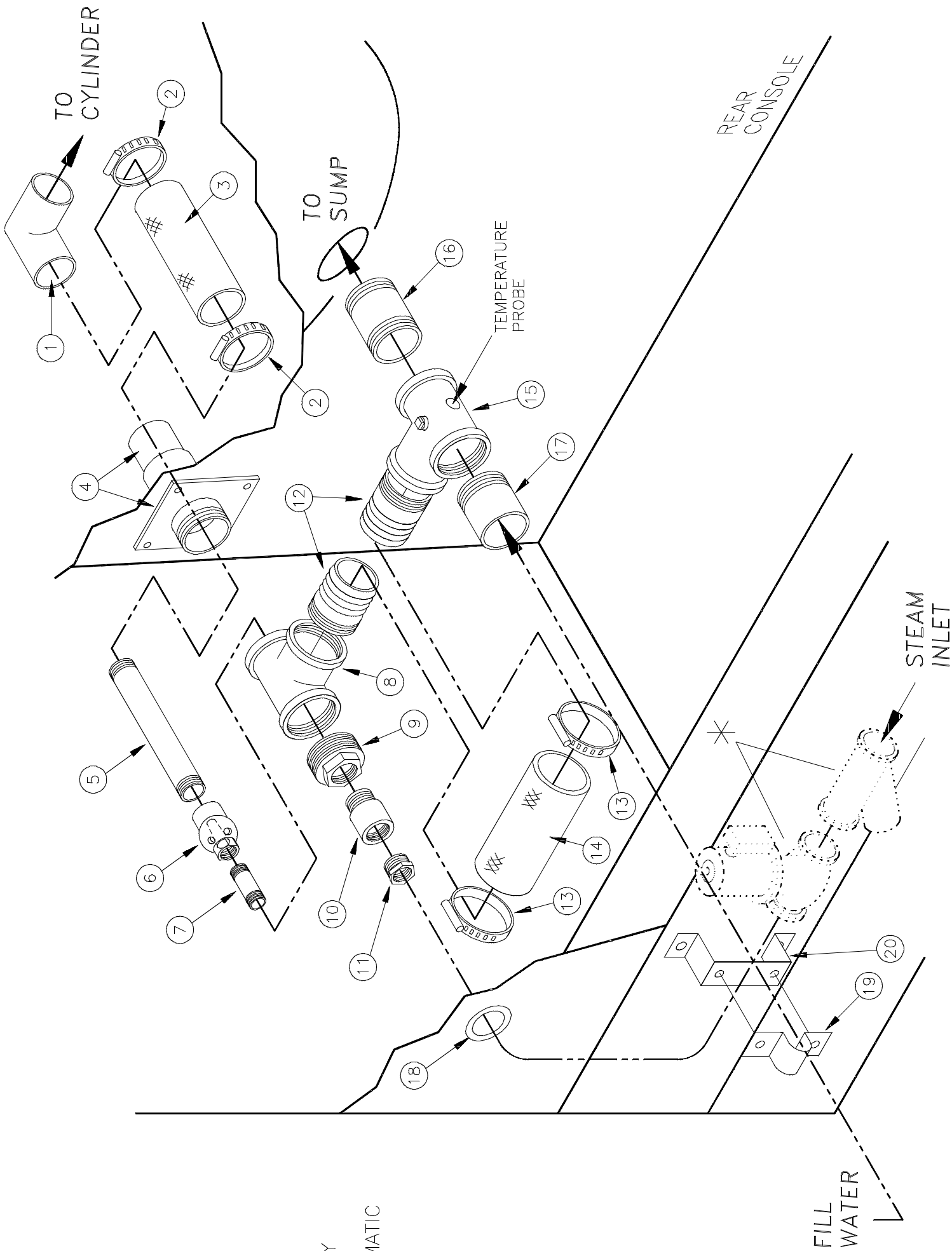
DRAWING

(See other page for parts list,
if applicable.)

STEAM INSTALLATION

30015, 30020 & 30022 RIGID MOUNT WASHER-EXTRACTORS

BMP920021/93251V (Page 1)



* FOR STEAM INLET ASSEMBLY
REPAIR PARTS - SEE
WATER/STEAM/DRAIN SCHEMATIC
BMP920015.

PARTS LIST

(See other page for drawing.)

STEAM INSTALLATION
30015, 30020 & 30022 RIGID MOUNT WASHER-EXTRACTORS

BMP920021/93251V (Page 2)

ITEM		PART NUMBER	DESCRIPTION	HOW PART IS USED IN ASSEMBLY (Only if pertinent)	
00A		AD 33 028B	90482@*STM INLET ASSY=N4S 3020 120V	REFERENCE 30020M5P/M7P	
00B		AD 33 028C	90482@*STM INLET ASSY=N4S 3015 120V	REFERENCE 30015M4P/M6P	
00C		AD 33 028D	90482@ STEAM INLET ASSY 3020 240V	REFERENCE 30020M5J/M7J	
00D		AD 33 028E	90482@ STM INLET ASSY= 3015 240V	REFERENCE 30015M4J/M6J	
00E		A33 10500	77427Q* STEAM INJECTOR ASSY C4/C6M	00B,00D(CONTAINS 004-012)	
00F		A33 10500A	77427Q*STEAM INJECTOR ASSY C5M	00A,00C(CONTAINS 004-012)	
00G		A33 10600	77427M*TEE ASSY-STEAM 2 MOTOMETER	00A-00D(CONTAINS 015-017)	
00H		A33 10600A	77427M*TEE ASSY-STEAM 3 MOTOMETER	00A-00D(CONTAINS 015-017)	
00J		A33 10700A	90482#\$STEAM INLET ASSY 120V/60C+	00A,00B	
00K		A33 10700B	90482# STEAM INLET ASSY 240V50/60	00C,00D	
001		W2 03608	92042B* STEAM ELBOW=C4M+C6M ONLY		
002		27A075	T-BOLT HOSECLAMP 2.75"-3.06"		
003		60E301A10A	HOSE= *2.5"ID PE X10"		
004		W2 03609	74488B* STEAMPIPE WLMT=3015CWM L=9"		
005		51LQ1AG07A	NIPPLE PIPE 1 X 7 GALSTL	00E,00F	
006		27A500	STEAM HEATER 3/4" BRZ. PENB.#NWH	00E,00F	
007		51LQ0PG03A	NIPPLE PIPE 3/4 X 3 GALSTL	00E,00F	
008		51V108C	TEE PIPE 2+1/2X2+1/2X2 GALMAL 150#	00E,00F	
009		51A059	HEXPIPBUSH 2+1/2X1 GAL 125#CI	00E,00F	
010		51E037	01Z COUP 3/4"F W/1"M NPTONOD 304S	00E,00F	
011		51A032	HEXPIPBUSH 3/4X1/2 GAL 150#	00E,00F	
012		02 15847C	85426B ADAPTER,CARBSTL2-1/2HOSX2NPT	00E,00F	
013		27A075	T-BOLT HOSECLAMP 2.75"-3.06"		
014		60E301A10A	HOSE= *2.5"ID PE X10"	00G	
015A		02 03657	77406A SPECIAL-TEE=2HOLES=STEAM CWM	00H	
015B		02 03657A	77406# SPECIAL-TEE=3HOLES=STEAM CWM	00G,00H	
016		51LQ2AD02M	05Z 2 X2+5/8" STD TOE NON-STD	00G,00H	
017		02 03447	91247B FILL TUBE NIPPLE (2X3TOE)GAL	00A-00D	
018		12P11ESB	SNAPBUSH 1.25MH X.94 T=1/8SB1250-15		
019		12K077	STRAP 1/2"HVYCONDUIT 2HOLE VICTR23S		
020		02 14170	89526B SUPPORT=PIPE SUPPLEMNT STEAM ***** END OF PARTS LIST *****		

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