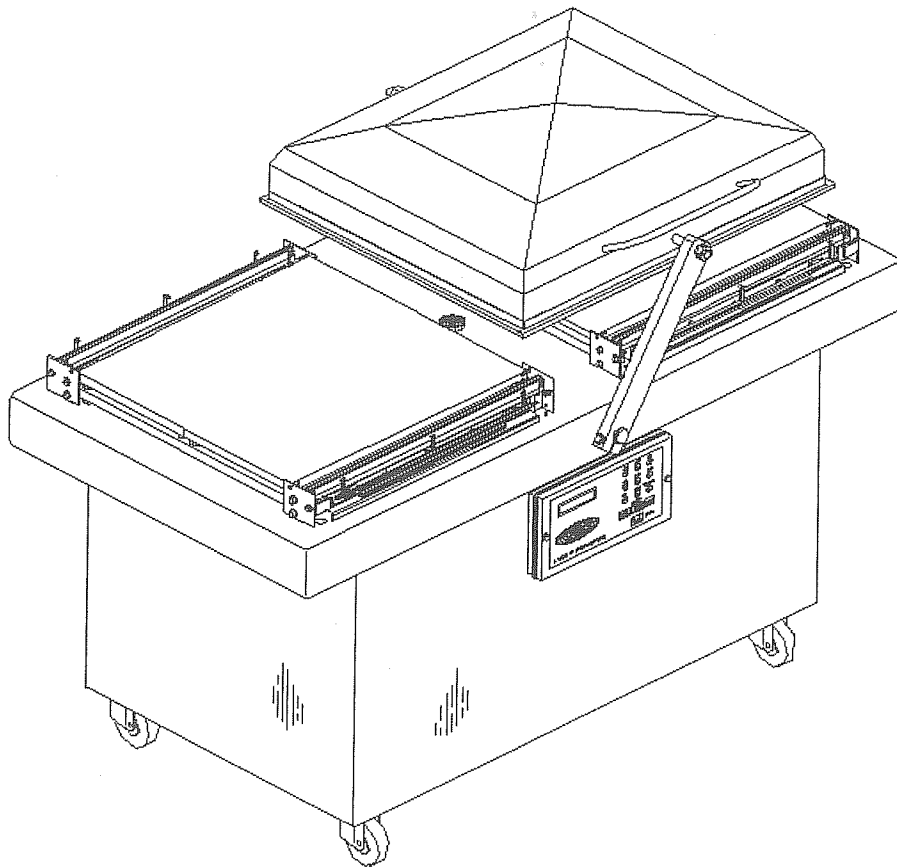


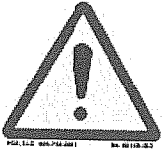
VACUUM PACKAGING MACHINE

MODEL 600A



OWNERS MANUEL (MANUEL D'UTILISATION) (MANUAL DE UTILIZACION)

IMPORTANT SAFETY INSTRUCTIONS SAVE THESE INSTRUCTIONS



This symbol points out important safety instructions which, if not followed, could endanger the personal safety and/or property of yourself and others. Read and follow all instructions in this manual before attempting to operate your machine. Failure to comply with these instructions may result in personal injury.

General Operation

- Read, understand, and follow all instructions in the manual and on the machine before starting. Keep this manual in a safe place for further and regular reference and for ordering replacement parts.
- Only allow responsible individuals familiar with the instructions to operate the machine. Be sure to know controls and how to stop the machine quickly.
- Never put your hands near moving parts.
- Only allow qualified individuals for the maintenance of your machine.
- Remove all obstacles, which may interfere with the machine functions.
- Clear the work area such as electrical wires, buckets, knives etc.
- Be sure that everyone else is clear of your work area before operating the machine.
- Do not sit nor stand on the machine.
- Always turn off the machine after your work is done. Never leave a running machine unattended.
- Always disconnect and wait till the machine has cooled before attempting any maintenance.
- Do not wear loose fitting clothes or jewelry as they may get caught in moving parts of the machine.
- Always wear security shoes, to prevent injury caused by moving the machine or objects falling from the machine.
- Never exceed the time limit to seal, which is recommended by the manufacturer. This is to avoid any damage that may be caused to the sealing bars and to eliminate the risk of fire in the machine. Thus avoiding corporal burns.
- Never touch the sealing bars after they have been used, this will avoid corporal burns. Wait a few minutes to let the machine cool down before touching.
- Always make sure that the sealing bars are well installed in their "Guide Blocks" before starting a cycle.
- Never incline the machine more than 30 degrees, it may tip over and hurt someone seriously.
- Work only in daylight or good artificial light.

Do not operate the machine while under the influence of alcohol or drugs!

Service

- Use proper containers when draining the oil. Do not use food or beverage containers that may mislead someone into drinking from them. Properly dispose of the containers, or store in a safe place immediately following the draining of the oil.
- Prior to disposal, determine the proper method to dispose of waste from your local office of Environmental Protection Agency. Recycling centers are established to properly dispose of materials in an environmentally safe fashion.

Do not pour oil or other fluids into the ground, down a drain or into a body of water.



Warning-Your responsibility:

This machine should only be operated by personal who can read, understand and respect warnings and instructions regarding this machine in the owners manual. Save these instructions for future reference.

VACUUM PACKAGING MACHINE

MODEL 600A

(MC-40 SIPROMAC)

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VACUUM PACKAGING MACHINES

OPERATION INSTRUCTIONS

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2010-08-30

SIPROMAC INC. VACUUM PACKAGING MACHINES

1. SETTING UP THE MACHINE:

Before choosing the site for the machine, please consider that you will also need room for packaged and non-packaged products apart from the space needed for the machine itself.

Keep in mind that the machine must not be set up upon uneven ground. Especially with mobile models, the weight of the pump might then cause warping of the machine. Then the lid will not fit correctly.

Before starting to work, check the oil view glass on the pump, if there is a sufficient quantity of oil in the pump. Never use oil other than recommended by the producer. Never exceed maximum quantity of oil indicated, when adding or changing oil. Verify weekly.

Normal ambient temperature for the vacuum pump is between 10 to 70°C. For temperature below 10°C; it is recommended to use synthetic oil. Please consult factory and pump manufacturer manual for more information or when ambient temperature are outside normal limits

2. ELECTRICAL CONNECTION:

Electrical connections must be made by qualified personnel. This person must make sure that the electrical entries corresponds to the proper voltage and amperage of the machine. **GROUNDING INSTRUCTIONS:** This appliance must be connected to a grounded, metal, permanent wiring system; or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment-grounding terminal or lead on the appliance. A qualified electrician should be consulted if there is any doubt as to whether an outlet box is properly grounded.

All vacuum machines are supplied with an electrical schematic drawing. An important step in connecting the machine is to make sure that the pump turns in its correct rotation.



The pump should not rotate more than 3 to 4 seconds in the wrong rotation or it may cause serious damage. The proper rotation is indicated by an arrow on the pump motor.

3. OPERATION:

3.1 Working principles:

A vacuum packaging cycle is made of 3 stages. First the vacuum is made, the air is completely taken out of the chamber and from bag containing the product. (See figure 1). Then it is possible to inject neutral gas from the nozzles, if the product is delicate. Finally, a mechanism pushes the sealing bar to the rubber support to seal the bag.

To obtain nice packages, the products and the bags have to be of proportional sizes. The bag's opening should never exceed 50 cm(2") past the seal bars. The product should be centered in height in relation to the seal bar by adjusting the spacers provided.

To obtain a good seal, make sure that no residue of fat is left between the bag's inner sides where sealing is done.

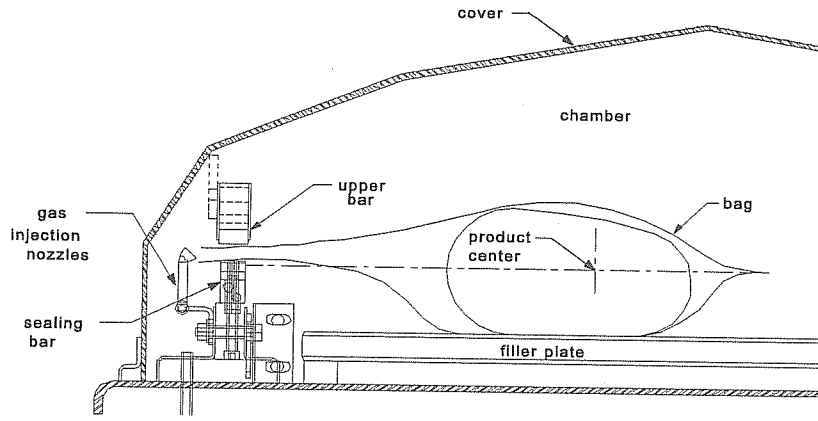


FIGURE 1

3.2 Special packaging:

3.2.1 Gas flushing (option):

There is an atmospheric pressure of 1 kg/ sq. cm (14 lbs/sq. inch) upon products when fully evacuated. Products which can be damaged by high pressure must be packaged with a partial vacuum, or the pressure must be counterbalance by inflating the bag with gas (nitrogen or carbon dioxide) before sealing after evacuation.

For gas flushing, the bags are placed on the sealing bars, the open end placed over the gas nozzles mounted alongside the sealing bar. After evacuation, the vacuum valve closes and the gas valve opens. Gas time (sec.) can be set in the program menu.

The necessary gas tank and pressure valve mounted on tank is not supplied, The pressure of the gas regulator should be set at approximately 1/3 kg/sq. cm (5 lbs/sq.inch.). Each machine has an adaptor for gas connection when gas flush option is ordered.

3.2.2 Top and bottom sealing (optional):

When sealing aluminium laminate bags (especially bags for e.g. coffee) it is imperative to have an upper and a lower sealing bar.

3.2.2 Electrical bag cut (optional):

This option is used to obtain a package that the excess bagtail is cut off close to the seal (cannot be used with top and bottom sealing).

3.3 Vacuum packaging operation:

3.3 Vacuum packaging operation:

Note: Refer to the menus structure on page 14 and the keyboard detail on page 15.

3.3.1 Basics:

Use key "POWER" to power ON / OFF the vacuum packaging machine. When the unit is energized, the identification of the last executed program is displayed on LCD screen.

Use the "ESC" key to change over from the programs menu to the functions menu and from the functions menu to the programs menu.

In functions menu, use key "SELECT" to select a function and key "ENTER" to accede and executed the selection.

In programs menu, use key "SELECT" to select a program and key "ENTER" to accede and modify the selection.

In programs submenu, use key "ENTER" to pass over the parameters and point to the following one; the parameters are blinking to point out the acquisition mode. A return to programs menu is performed automatically following the last parameter acquisition.

In program submenu, use key "ESC" to get back to the programs menu. Strike any key to clear the error messages which may be displayed on LCD screen.

3.3.2 Functions:

3.3.2.1 Create a program:

When executing the "create a program" function, the program submenu is acceded, starting with the identification. The initial identification "Pxx NO NAME" is given to the program and all parameters are established to zero; the program number is allocated automatically.

3.3.2.2 Delete a program:

When executing the "delete a program" function, the programs menu is acceded and the number of the first program in memory is blinking to point out the deletion mode. Use key "SELECT" to select a program and key "ENTER" to accede and confirm deletion of the selection. Use key "ESC" to unconfirm a deletion and to leave the function. When leaving the function, the number of the actual program on LCD screen cease to blink.

3.3.2.3 Select operating mode:

When executing the "select operating mode" function, which is available only for the automatic units, the actual selection is blinking to point out the acquisition mode. Use key "SELECT" to get through the operating modes, which are automatic, semi-automatic and manual; the validation of the selected operating mode is performed automatically. Use key "ESC" or "ENTER" to leave the function and get back to the program menu.

3.3.3 Programs menu:

3.3.3.1 Program identification:

For a selected program, set the identification, using the numeric keyboard characters chart; press numeric key until the desired character is selected (4 times for the numeric value). Use key "ENTER" to validate the character and to validate the characters string at the end (the new characters string is blinking). In a middle of an acquisition, use key "ESC" to come backward and erase one or several characters.

Example: EXAMPLE 1 →
(9 characters)

keys 2, 2, ENTER	→ E
keys 8, 8, 8, ENTER	→ X
keys 1, ENTER	→ A
keys 5, ENTER	→ M
keys 6, ENTER	→ P
keys 4, 4, 4, ENTER	→ L
keys 2, 2, ENTER	→ E
keys 9, 9, 9, ENTER	→ space
keys 1, 1, 1, 1, ENTER	→ 1

key ENTER to validate the characters string

3.3.3.2 Vacuum level setting:

For a selected program set the vacuum level, starting with the values; the decimal point is automatically inserted following the second digit entry and the validation is automatically performed following the third digit entry (the new vacuum level is blinking). The vacuum level is rounded off to the nearest half value. In the middle of an acquisition, use key "ENTER" to validate the vacuum level and key "ESC" to come backward and start over with a new acquisition (the old vacuum level is blinking). Set vacuum level to zero to bypass the pressure transducer and proceed only using the vacuum plus time.

Examples: 90.0% → keys 9, 0, 0 or 9, 0, ENTER or
keys 9, 0, 1 or 9, 0, 2 or 9, 0, 3 or 9, 0, 4
97.5% → keys 9, 7, 5 or
keys 9, 7, 6 or 9, 0, 7 or 9, 0, 8 or 9, 0, 9
0.0% → keys 0, 0, 0 or 0, ENTER

3.3.3.3 Vacuum plus time setting:

For a selected program set the vacuum plus time, in seconds; the validation is automatically performed following the second digit entry (the new vacuum plus time is blinking). In a middle of an acquisition, use key "ENTER" to validate the vacuum plus time and key "ESC" to come backward and start over with a new acquisition (the old vacuum plus time is blinking).

Examples: 1s → keys 0, 1 or 1, ENTER

15s → keys 1, 5

3.3.3.4 Gas flush level setting:

For a selected program set the gas flush level following the same procedure as for the vacuum level; the maximum gas flush level setting is 10% below the vacuum setting.

3.3.3.5 Sealing time setting:

For a selected program set the sealing time, starting with the seconds; the decimal point is automatically inserted following the first digit entry and the validation is automatically performed following the third digit entry (the new sealing time is blinking). The sealing time is truncated to the nearest half hundredth. In a middle of an acquisition, use key "ENTER" to validate the sealing time and key "ESC" to come backward and start over with a new acquisition (the old sealing time is blinking).

Examples: 4.50s → keys 4, 5, 0 or 4, 5, ENTER or
keys 4, 5, 1 or 4, 5, 2 or 4, 5, 3 or 4, 5, 4
2.35s → keys 2, 3, 5 or
keys 2, 3, 6 or 2, 3, 7 or 2, 3, 8 or 2, 3, 9
0.00s → keys 0, 0, 0 or 0, ENTER

3.3.4 Vacuum cycle execution:

For the manual units and the automatic units set on manual, close the cover to initiate a vacuum cycle. For the automatic units set on semi-automatic or on automatic, use push button "STOP / START" to initiate or interrupt a vacuum cycle. A selected program can be initiated only in the programs menu, when no modifications are in progress, and the access to the other programs and functions is denied. During cycle execution the operation status is sequentially displayed on LCD screen, except for the parameters established to zero, which are not displayed:

- chamber vacuum level during vacuum sequence,
- vacuum plus time status during vacuum plus sequence,
- chamber vacuum level during gas flush sequence,
- sealing time status during sealing sequence,
- chamber vacuum level during atmosphere sequence.

During cycle execution, use key "1" to abort the vacuum sequence and execute the following sequence, which is gas flush or sealing, and key "ENTER" to accede and modify the program; the parameters become valid only for the following vacuum cycles.

3.3.5 System monitor:

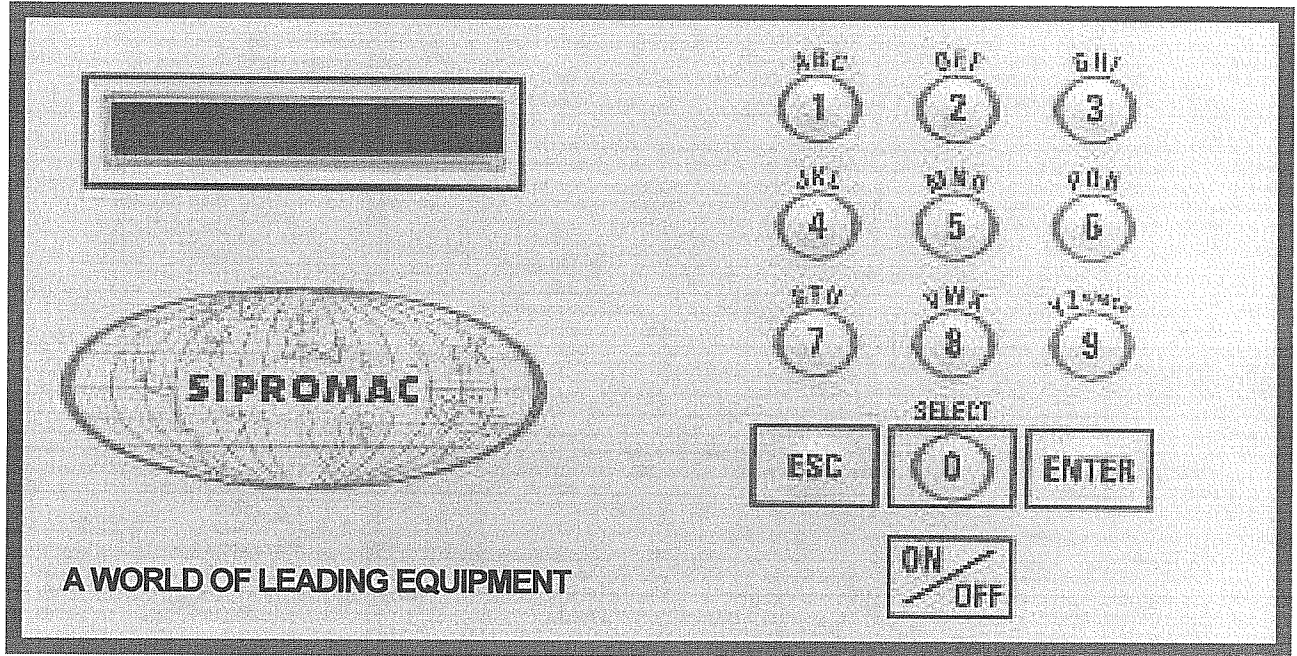
To accede the diagnostics menu, power up the vacuum packaging machine while keeping pushed in the "ESC"key. Use key "SELECT" to select the system monitor function and key "ENTER" to accede and visualize the monitored parameters. Use key "SELECT" to change over from the software revision, the amount of working hours done and the amount of complete cycles performed since first initialization.

-MENUS STRUCTURE-

- **Functions menu:**
 - "F1 CREATE A PRGM"
 - "F2 DELETE A PRGM"
 - "F3 SELECT OPMODE" (automatic units only)
- **Programs menu:**
 - "Pxx NAME"
 - Program submenu:
 - "VACUUM: xx.x%" (10.0% - 99.5%)
 - "VACUUM PLUS: xxs"(0s - 99s)
 - "GAS FLUSH: xx.x%" (0.0% - 10% below the vacuum level) (units with gas option)
 - "SEAL TIME: x.xxs" (0.00s - maximum unit allocated setting)
 - "Pxx NAME" (12 characters)
- **Diagnostics menu** (keys "ESC" & "POWER" for access):
 - "DIAGNOSTICS MENU" (access code required)
 - "D1 INPUTS TEST"
 - "D2 OUTPUTS TEST"
 - "D3 MODEL SELECT"
 - "D4 GAS OPTION"
 - "D5 SEALING TIME"
 - "D6 COOLING TIME"
 - "D7 OFFSET CALIB."
 - "D8 VACUUM SENSOR"
 - "D9 SIPROMAC PUB"
 - "D10 LOADING TIME" (automatic units only)
 - "D11 UNLOADNG TIME" (automatic units only)
 - "SYSTEM MONITOR" (no access code required)
 - "SOFTWARE: R x.xx"
 - "WORK HRS: xxxxx"
 - "CYCLES: xxxxxxxx"

-KEYBOARD DETAILS-

MC-40 CONTROLS





WARNING: All electrical work described in this brochure should be done by a QUALIFIED and AUTHORIZED technician.

3.4 Daily cleaning:

For hygienic cleanliness, it is imperative to clean chamber and spacers daily. Also clean the lid rubber to assure tight seat of the lid.

Cleaning instructions for gas injection nozzles: Periodically on a regular basis the gas injection nozzles must be removed with the connection tube and soaked in a food grade soap and water solution, then dried and re-installed.

4. TROUBLE SHOOTING:

4.1 Failure during packaging cycle:

4.1.1 "VACUUM ERROR" message is displayed on LCD:

No pressure variation is picked up by the PCB transducer during the vacuum sequence within a preset period of time.

- Check vacuum lines for potential leaks or kinks.

4.1.2 "GAS FLUSH ERROR" message is displayed on LCD:

No pressure variation is picked up by the PCB transducer during the gas flush sequence within a preset period of time.

- Check gas flush and vacuum lines for potential leaks or kinks.

4.1.3 "ATMOSPHERE ERROR" message is displayed on LCD:

No pressure variation is picked up by the PCB transducer during the atmosphere sequence within a preset period of time.

- Check vacuum lines for potential leaks or kinks.

4.1.4 "COVER DOWN ERROR" message is displayed on LCD(manual units):

The input signal of the down position switch has been lost during cycle execution.

- Check limit switch adjustment.

4.2 Insufficient vacuum:

4.2.1 Leakage in the bag:

Most frequently, insufficient vacuum in bags is due to leakage in bag and not due to any fault of the machine.

Pin-hole leak for which there is no obvious explanation is due to faulty bag material.

Pin-hole leak caused by sharp edge of the product (bone, etc.). Use bone-guard or thicker film.

Tear in bag by careless handling (sharp edge on filling table, damage made by retailer or customer).

Leakage in lateral or bottom seal, complain to supplier of bags or film.

4.2.2 No leakage in the bag:

Bag is too large, therefore the surplus of air remains visible (there is surplus of air in 0.4% of the bag volume in each bag). Use bags of suitable size.

Vacuum level is too low:

Pressure bar is jammed and closes opening of bag during evacuation.

4.2.3 Insufficient vacuum in chamber:

If troubles described under 4.2.1 and 4.2.2 do not apply, there is something wrong with the evacuation. To find the leakage quickly, check for leaks with a precision vacuumeter, going back step by step from the chamber to the pump.

At the chamber (measuring point at base of valve) at maximum time of evacuation. If more than 6 torr, proceed directly to the pump, if more than 3 torr: have pump service by pump supplier. If pressure at pump is good, reconnect hoses to pump and measure again.

Verify at vacuum hose connections and valve connections.

When proceeding this way, starting from pump, loss of pressure per step must not exceed 0.5 to 1 torr.

Caution: Verify connections of measuring equipment before verifying machine.

Most frequent points of leakage: lid gasket, damaged vacuum hose or loose hose clamps.

4.3 Faulty seal:

4.3.1 Insufficient seal:

Damaged teflon or silicone rubber.

Sealing pressure too low, bellows leaking or pressure bar jammed.

Leakers in seal: heating wire mechanically damaged (knicked) or silicone rubber uneven.

4.3.2 No seal:

Sealing wire burnt.

Faulty contact in sealing circuit.

Sealing transformer burnt through.

Contactors does not work.

4.3.3 Permanent sealing current:

Contactors is jammed check sealing transformer for damage through overload.

4.3.4 Seal does not stick:

Insufficient layer of polyethylene (inferior quality of bags).

Seal area extremely contaminated by fat or meat juice. Use filling aid.

Sealing temperature is too low (when using very thick films).

Caution: Do not increase sealing time more than really necessary; higher temperature will reduce working life of teflon and silicone rubber.

4.4 Fault in the valve:

Vacuum or air valve does not open.

Check whether there is voltage on the magnetic valves during their period of operation. If there is no voltage a wire is broken or the PC board is damaged.

Lid does not open at the end of the cycle; air enters, but there is still 20 - 40% vacuum in chamber. Vacuum valve does not close.

4.5 MC40 Control board failure

NOTE: Refer to menu structure on page 13.

This board software is allowing access to a "Diagnostics Menu". Only qualified service technicians are authorized to access this menu by entering a security password.

By acceding either the "D1 input test" feature or the "D2 output test" feature, a trained technician will be able to quickly know the origin of the problem: pump, sealing system, pneumatic problem, security switches problem, etc...

Keep in mind that in most cases trouble is due to a leakage, loose electrical connection or evident damage to the main components: vacuum pump, valves, electrical contactors, thermal overload, fuses holder or transformer.

For assistance do not hesitate to contact your local service technicians.

5. Regular maintenance:

Routine controls to be made at regular intervals:

Check teflon for wear.

Check silicone rubber for burnt spots and smooth even position.

Check pressure bar for jamming.

Check lid sealing for damage and hardened spots.

Check switch-point of micro switch, adjust if necessary.

Check evacuation hose for damage (contraction of diameter, or abrasions).

Check vacuum connections for tightness.

Check oil in pump (oil level in view glass; add if necessary. Regular change of oil - necessity indicated by change of color).

Check vacuum in chamber with precision vacuumeter.

Check function of cycle with various settings of timers.

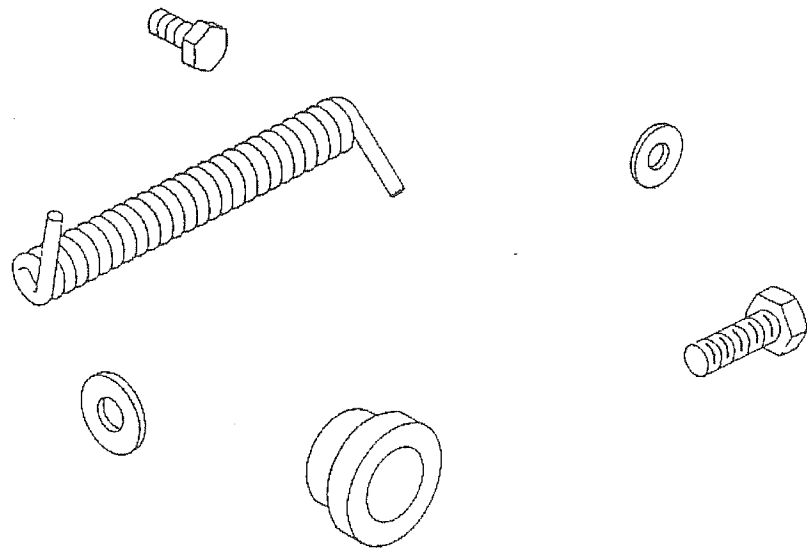
MODEL 600A

COVER ADJUSTMENT PROCEDURE

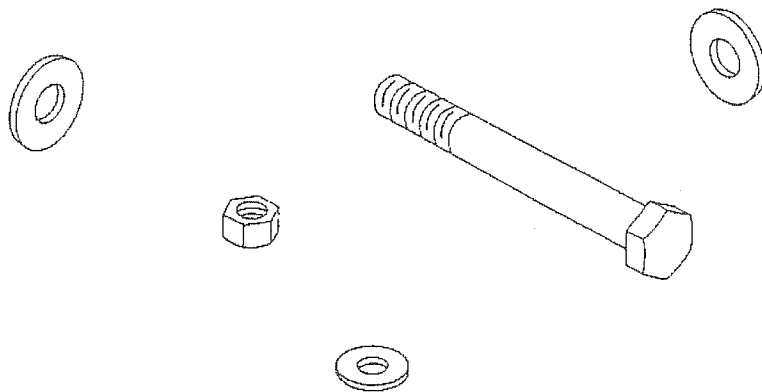
Reference Drawing:# 005C0324
004C0122

PROBLEM: MACHINE TABLE AND COVER SEEMS TO BE STRAIGHT, LID GASKET IS GOOD BUT COVER DOES NOT SIT PROPERLY ON BOTH SIDES OF TABLE.

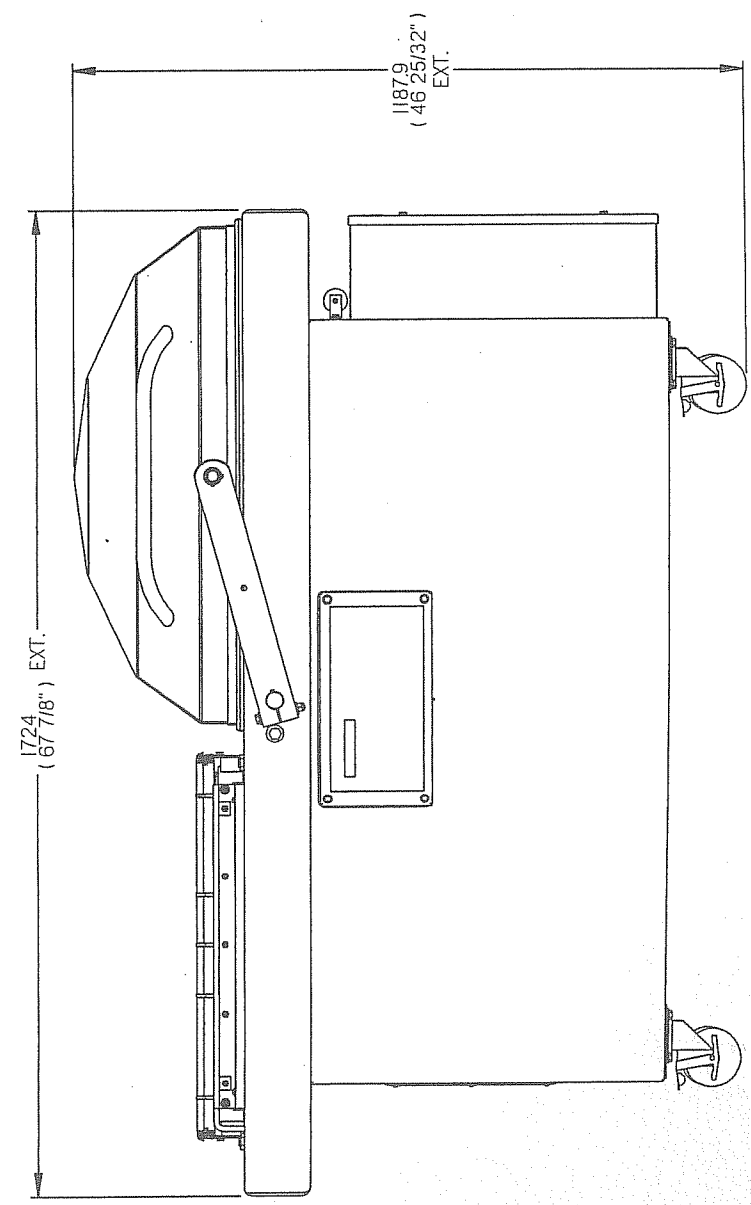
1. Floor should be flat (within 1/8" approx.).
 - 2.2 Loosen the two bolts of the guide arm axis (See drawing #004C0122; items #23).
 - 2.3 Now move the cover on each side and check how cover sits on the table. Distance between table and lid gasket should be less than 1/16" approx. If so, go to step 3.0 for guide arm adjustment. Otherwise go to step 2.4 for central arm adjustment.
 - 2.5 When closing cover (guide arm axis still loose), if cover is not sitting properly on either the front or rear of the table, you have to change the height of the flange bearings (See drawing # 004C0122; item #12) until cover is seating properly on each side. Normally shaft is centered in the table holes and the height is adjusted in a way that cover will slightly touch the back side of the table first.
3. Adjustment of guide arm: Both length of the guide arm and position on the guide arm axis have to be adjusted. Each of these should be adjusted separately. Fix the lower axis in a central position (centered in the holes) then adjust guide arm length until cover sit correctly on the right side. Move cover to the left side and check if cover sits correctly, if not move lower axis position and change length of the guide arm. Move the cover back to its original position to confirm, normally multiples tryout is required. Make sure there is no stress is transferred to the guide arm when machine is operating, stress induced arm will cause premature component fail.



MECHANICAL DRAWING



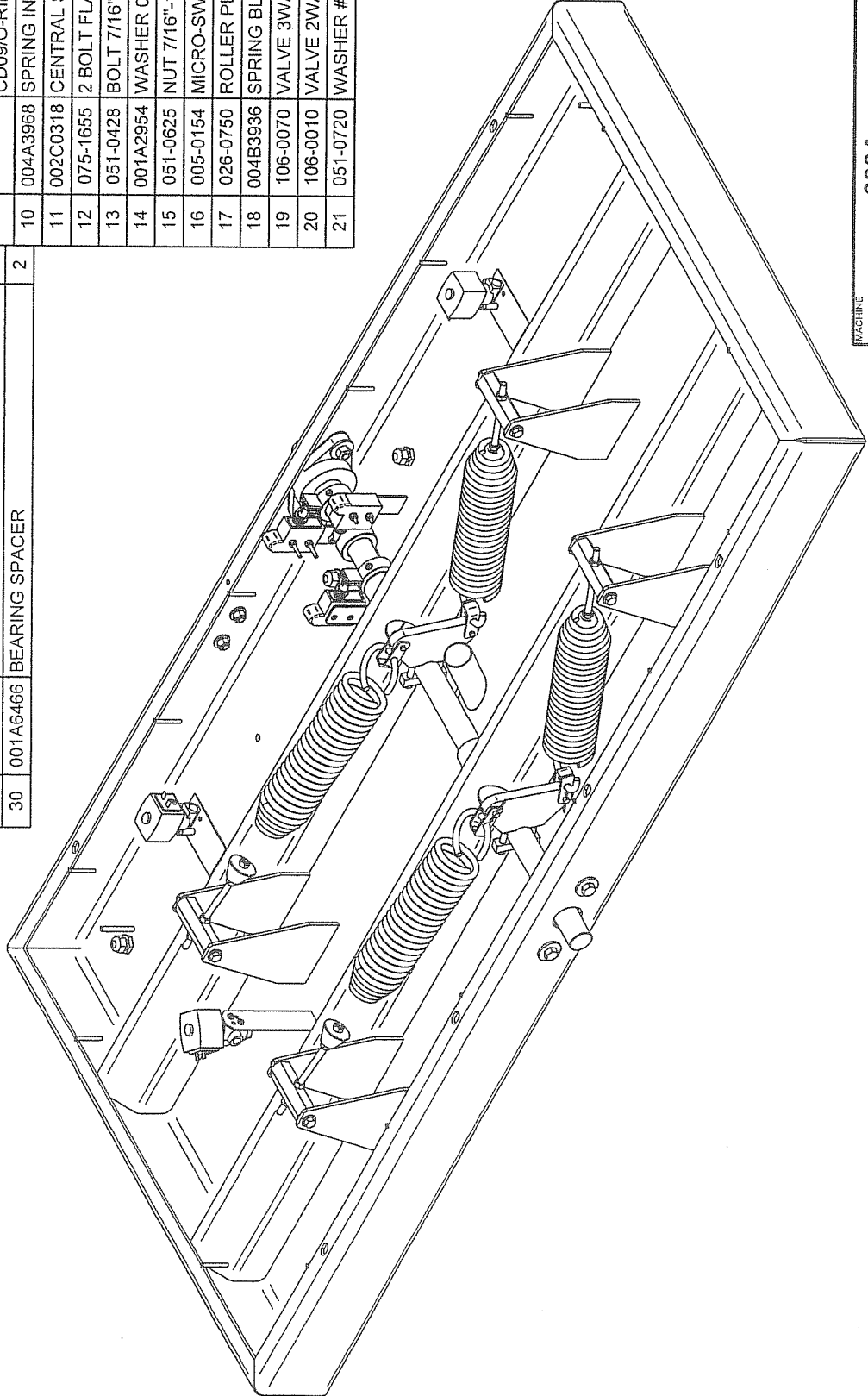
ITEM	PART #	DESCRIPTION	QTY.	ITEM	PART #	DESCRIPTION	QTY.	ITEM	PART #	DESCRIPTION	QTY.
33	005-0320	BELLOWS ASSEMBLY	4	17	051-0178	SCREW 1/4"-20 x 5/16" SKT SET S/S	4	1	005B0457	STRUCTURE ASSY	1
34	005A0446	FRONT GAS 4 INJECTION BAR ASSEMBLY	2	18	051-0783	WASHER 3/8" FLAT THICK S/S	16	2	004C0122	TABLE ASSEMBLY	1
35	005A0811	REAR GAS 4 INJECTION BAR ASSEMBLY	2	19	051-0422	BOLT 3/8"-16nc. X 3/4" S/S	2	3	005A0583	FRONT MC-40 SUPPORT ASSY	1
36	005A0810	GAS 3 INJECTION BAR ASSEMBLY	2	20	051-0622	NUT 3/8"-16nc. NYLON LOCK S/S	2	4	057-0089	1/4" x 5/8" O.D. EPDM RUB. SEAL. WASHER	4
37	005-0571	GAS 3 INJECTION BAR ASSEMBLY	2	21	058-0060	NYLON SPACER 1/2IDx3/4ODx1/4"	2	5	052-2045	FLAT WASHER 1/4" COPPER	4
38	005B0569	SEAL BAR ASSY W/SUPPORT	4	22	058-0050	NYLON SPACER 1/2IDx3/4ODx1/16"	2	6	051-0591	NUT 1/4"-20 ACORN S/S	4
39	005A0570	SEAL BAR ASSY W/SUPPORT	4	23	004A1394	GUIDE ARM PRE-ASSY	1	7	002-0327	RIGHT SEAL BAR GUIDE BLOCK	4
40	004A0629	REAR PANEL 165 & 255M ³ PRE-ASSY	1	24	056-0331	EXT. RETAINING RING 1/2" S/S	2	8	002-0326	LEFT SEAL BAR GUIDE BLOCK	4
41	056-01675	KEY 1/4" SQ. x 1 1/4" ROUNDED END S/S	2	25	051-0360	BOLT 3/8"-16nc. X 1" S/S	6	9	051-0740	WASHER 1/4" FLAT S/S	16
42	004A1470	PUMP "BUSCH" 63 M ³ ASSY	1	26	051-0620	NUT 3/8"-16 NC S/S	6	10	051-0250	BOLT 1/4"-20nc. X 1 1/2" S/S	8
43	004A1468	PUMP "BUSCH" 100 M ³ ASSEMBLY	1	27	130-4PHB	4" SWIVEL CASTER W/BRAKE	2	11	051-0581	NUT 1/4"-20 NYLON LOCK S/S	8
44	004A1469	PUMP "BUSCH" 165 M ³ ASSEMBLY	1	28	130-4PHO	4" SWIVEL CASTER W/O BRAKES	2	12	005-0322	FILLER PLATE SSEMBLY	4
45	004A1471	PUMP "BUSCH" 255 M ³	1	29	051-0760	WASHER 5/16" FLAT S/S	32	13	005A0568	SEAL BAR ASSY W/SUPPORT	4
46	005A0454	12" COVER ASSEMBLY	1	30	052-0520	BOLT 5/16"-18nc. X 3/4" ZINC	16	14	005A0453	8" COVER ASSEMBLY	1
47	104-0064	SILICONE TUBING 3/8" OD x 3/16" ID x 84mm	4	31	052-3110	NUT 5/16" -18 ZINC	16	15	004-0280	COVER ARM ASSY	2
				32	004-0726	REAR PANEL PRE-ASSEMBLY	1	16	002-0390	COVER ARM COLLAR	2



MACHINE	600A	DEPT.	QTY.	1
PART	MACHINE ASSEMBLY	USINAGE	± 0.004"	
ITEM		COLEMET	± 0.1	
MAT.		SOUDAGE	± 0.5	
			± 0.02"	
			± 0.025"	
			± 0.025"	
			N.T.S.	
			DEFI.	
			M-I	
			DATE	13-01-15
			DATE	
			APP. BY	J.G.
			NO	005C0324

N	REDESSINE ETAIT AUSSI 005-0325	13-01-15	J.G.
LET.	MODIFICATION	DATE	INT.

ITEM	PART #	DESCRIPTION	QT.	ITEM	PART #	DESCRIPTION	QT.
22	051-0560	NUT #8-32 NYLON LOCK S/S	6	1	005C0150	TABLE PRE-ASSEMBLY	1
23	005-0317	GUIDE ARM AXIS ASSY	1	2	008A1953	SPRING	4
24	051-0783	WASHER 3/8" FLAT THICK S/S	4	3	002A3941	SPRING ADJ. PIVOT	4
25	051-0360	BOLT 3/8"-16nc. X 1" S/S	2	4	051-0600	NUT 5/16" -18 S/S	8
26	051-0620	NUT 3/8"-16 NC S/S	2	5	002A4002	SPRING ADJ. PIVOT SPACER	8
27	052-0216	SCREW 8-32 X 5/16" HEX WASHER HEAD ZINC	2	6	051-0760	WASHER 5/16" FLAT S/S	8
28	052-0290	SCREW #10-32 X 1/4" PAN PHIL. ZINC PLATED	4	7	051-0300	BOLT 5/16"-18 x 3/4" S/S	8
29	051-0334	SCREW 3/8"-16 x 3/8" SET HEX SKT	6	8	004A3937	SHACKLE ASSY	4
30	001A6466	BEARING SPACER	2	9	036-0400	WIRE CONNECT. 3/8" NPT CD09/O-RING/NUT	8
				10	004A3968	SPRING INSERT ASSEMBLY	4
				11	002C0318	CENTRAL SHAFT	1
				12	075-1655	2 BOLT FLANGED BEARING 1-1/4" PLASTIC	2
				13	051-0428	BOLT 7/16"-14NC x 1-1/2" SS	4
				14	001A2954	WASHER 0.468"Ø ID x 1.250"OD x 3.5	8
				15	051-0625	NUT 7/16"-14 S/S	4
				16	005-0154	MICRO-SWITCH COLLAR ASSY	3
				17	026-0750	ROLLER PLUNGER SWITCH SPDT	3
				18	004B3936	SPRING BLOCK PRE-ASSY	2
				19	106-0070	VALVE 3WAY 24V 1/4"NPT(G176)60Hz	1
				20	106-0010	VALVE 2WAY 24V 1/4"NPT(G22) 60Hz	2
				21	051-0720	WASHER #8 FLAT S/S	6



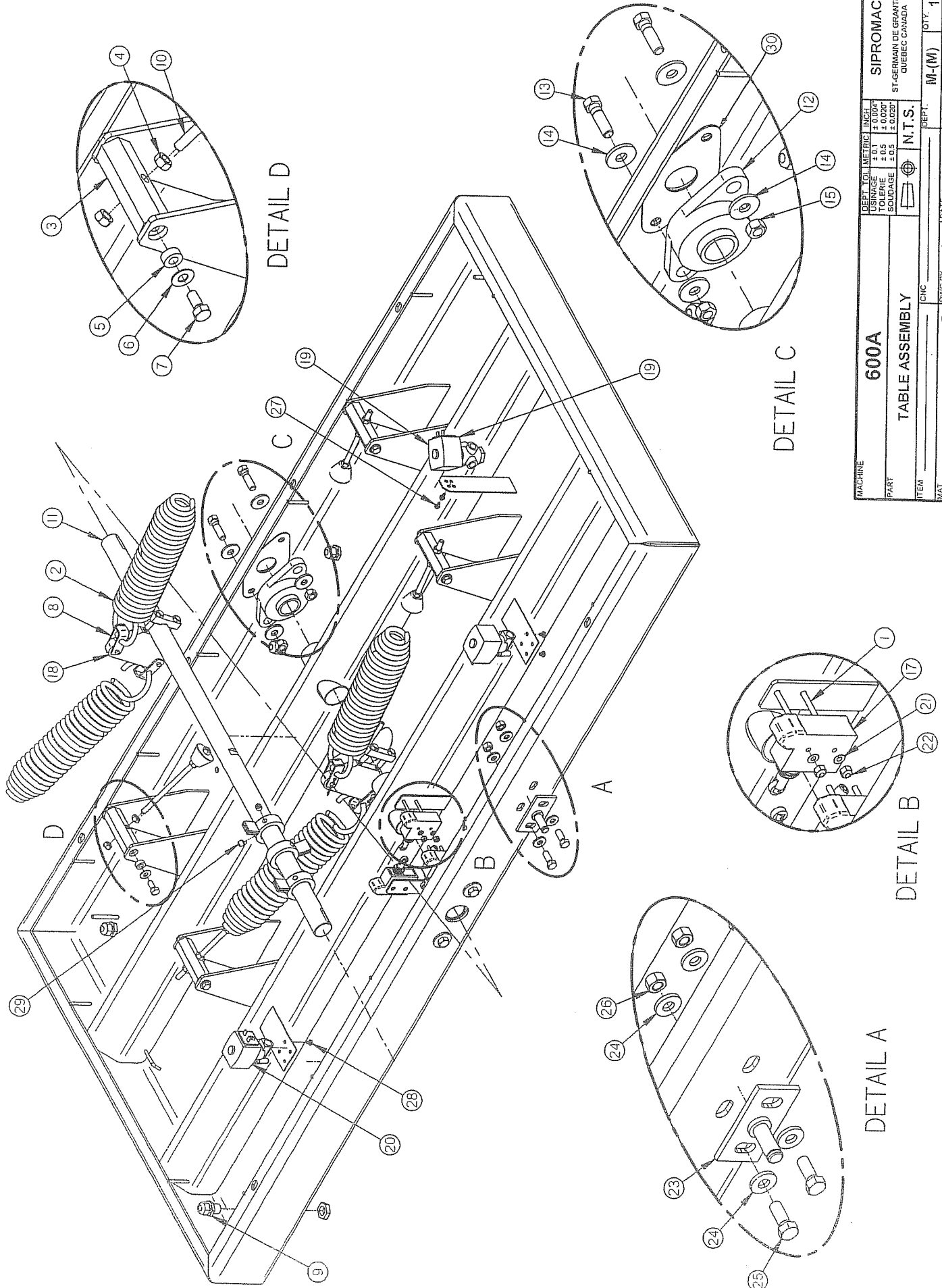
MACHINE: 600A
 PART: TABLE ASSEMBLY
 ITEM: _____
 MAT: _____

DEPT. TOOL METRIC INCH
 USING: ± 0.0004 ± 0.1 ± 0.0207 ± 0.5
 SOLDERAGE: ± 0.5
 N.T.S.

STIPROMAC
 ST-GERMAIN DE GRANTHAM
 QUEBEC CANADA

DEPT. M-(M) QTY. 1
 NO. 004C0122
 DATE: 13-01-15
 APP. BY: J.G.
 DATE: 13-01-15

MOD 002A3941 AJOUT 001A6466 13-04-11 SBU
 REDESSINE 13-01-15 J.G.
 MODIFICATION DATE INT.



MACHINE	600A	DEPT. TO METRIC INCH	± 0.1	± 0.004"
PART	TABLE ASSEMBLY	USINAGE	± 0.1	± 0.004"
ITEM		TOLERIE	± 0.5	± 0.020"
MAT.		SOUDAGE	± 0.5	± 0.020"
				N.T.S.
				DEPT.
				DATE 13-01-15
				APP. BY
				DATE
				DEPT.
				NO
				QTY. 1
				NO
				004C0122

DETAIL A

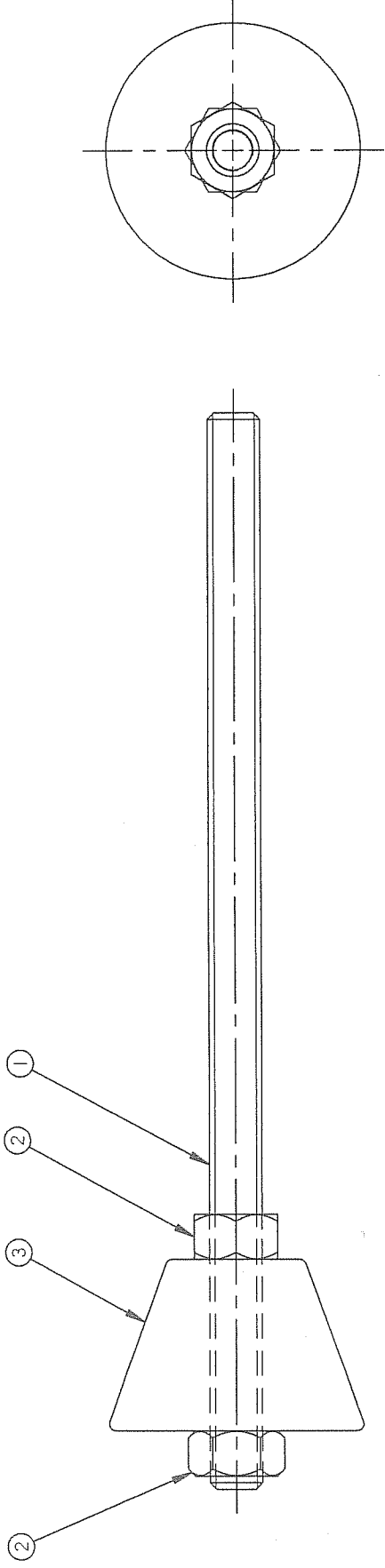
DETAIL B

DETAIL C

DETAIL D

004A3968

ITEM	PART #	DESCRIPTION	QT.
1	002A3989	SPRING ADJUSTMENT ROD	1
2	051-0600	NUT 5/16" .18 S/S	2
3	002B3940	SPRING INSERT	1



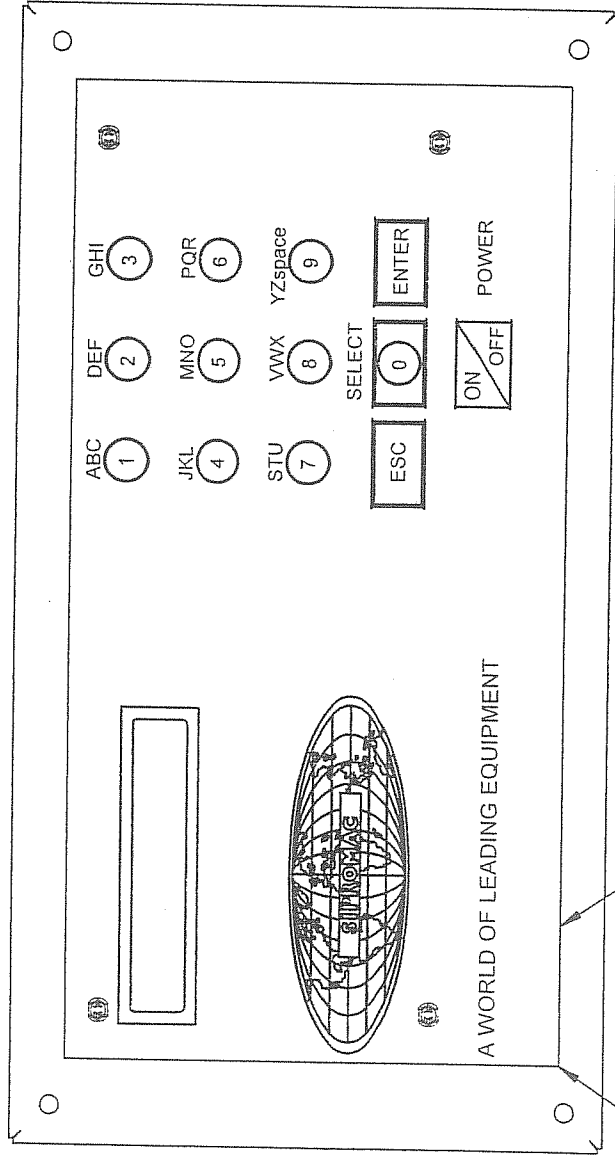
620A	4
600A	4
MACHINE	QT.
SIPROMAC	
ST-GERMAIN DE GRANTHAM	
QUEBEC CANADA	
M-(M)	QTY
LISTE	
004A3968	

MACHINE	600A & 620A	DEPT. TOL. METRIC INCH	USINAGE ± 0.004
PART	SPRING INSERT ASSEMBLY	TOLERIE ± 0.5	SOUDEGE ± 0.020
ITEM	CNC	N.T.S.	
MAT.		DATE: 13-01-15	NO.
		DATE	
		APP BY J.G.	DATE

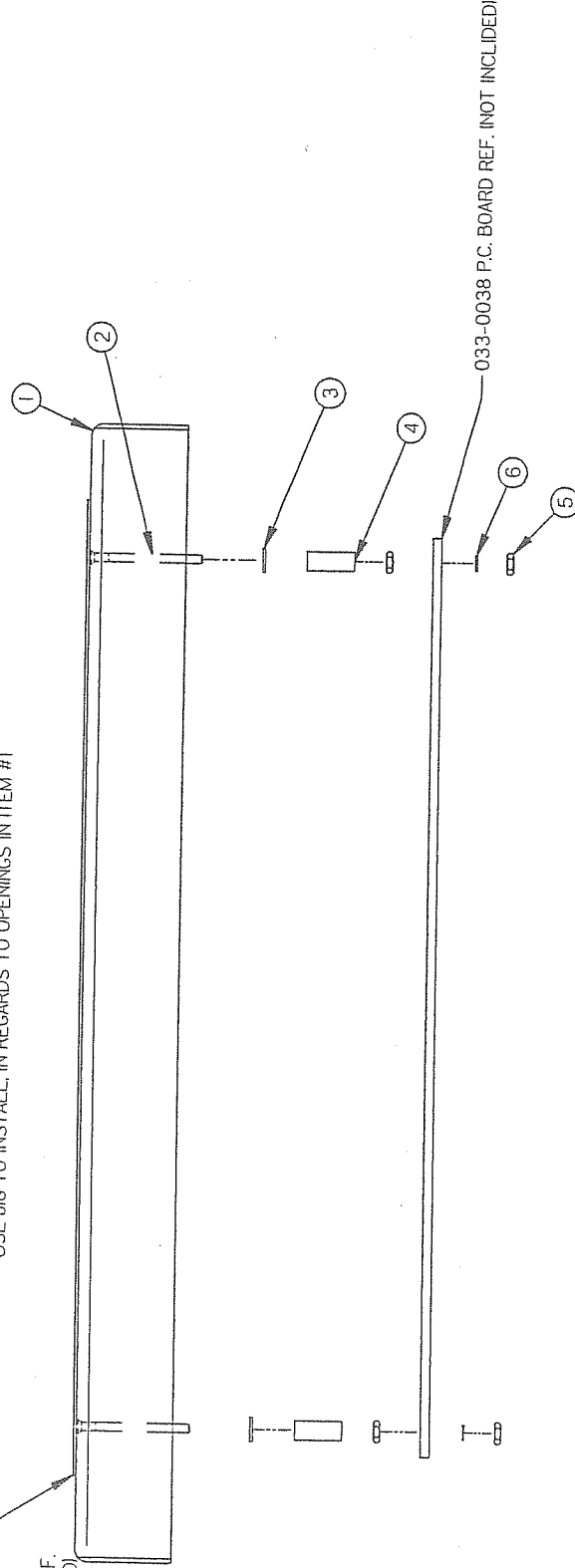
A	AJOUTER 620A	13-01-23	J.G.
LET.	MODIFICATION	DATE	INT.

1005A0583

ITEM	PART #	DESCRIPTION	QT.
1	004A0425	FRONT MC-40 SUPPORT PRE-ASSY	1
2	051-0092	SCREW #4-40 x 1 1/4" FLAT SLT S/S	4
3	051-0713	WASHER #4 FLAT S/S	4
4	058-0120	CPVC SPACER 0.120" x 1/4" x 5/8"	4
5	051-0540	NUT #4-40 HEX S/S	8
6	051-0715	WASHER #4 LOCK SS	4



USE JIG TO INSTALL, IN REGARDS TO OPENINGS IN ITEM #1

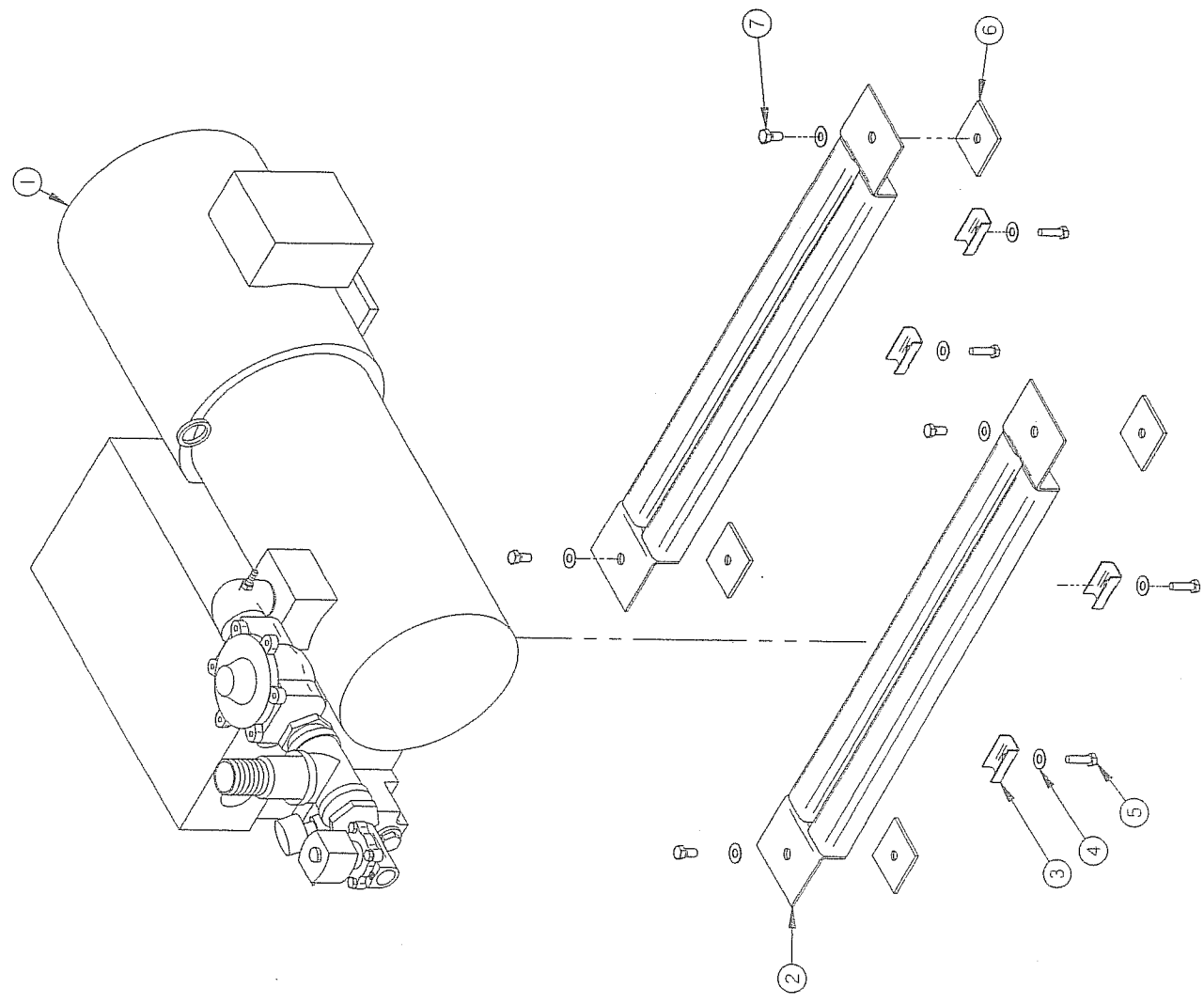


H	AJOUTIER 500D	08-04-17	J.G.
G	REDRAWN	05-09-01	M.A.
LET.	MODIFICATION	DATE	INT.

MACHINE	420A, 450A, 4501, 500A, 500D, 550A, 580A, 600A, 620A & 650A	DEPT. LOC.	METRIC	INCH
PART	FRONT MC-40 SUPPORT ASSY	USNAGE	± 0.001	
ITEM		FOLERIE	± 0.020	
MAT.		SOUDAGE	± 0.020	
APP. BY				
DATE	05-09-01			
DRW. NO.	22-04-25			
CNC				
DEPT.				
QTY.	1			
ST-GERMAIN DE GRANTHAM				
QUEBEC CANADA				
SIPROMAC				
005A0583				

004A1470

ITEM	PART #	DESCRIPTION	QT.
1	007A0114	PUMP&PLUMBING 63M ³	1
2	005-0104	PUMP SUPORT ASSEMBLY	2
3	001-0199	PUMP FIXATION	4
4	051-0780	WASHER 3/8" FLAT S/S	8
5	052-4220	BOLT M8 x 30 ZINC	4
6	005-0088	PUMP SUPP. FIX. PLATE ASSY	4
7	051-0350	BOLT 3/8"-16nc. X 3/4" S/S	4

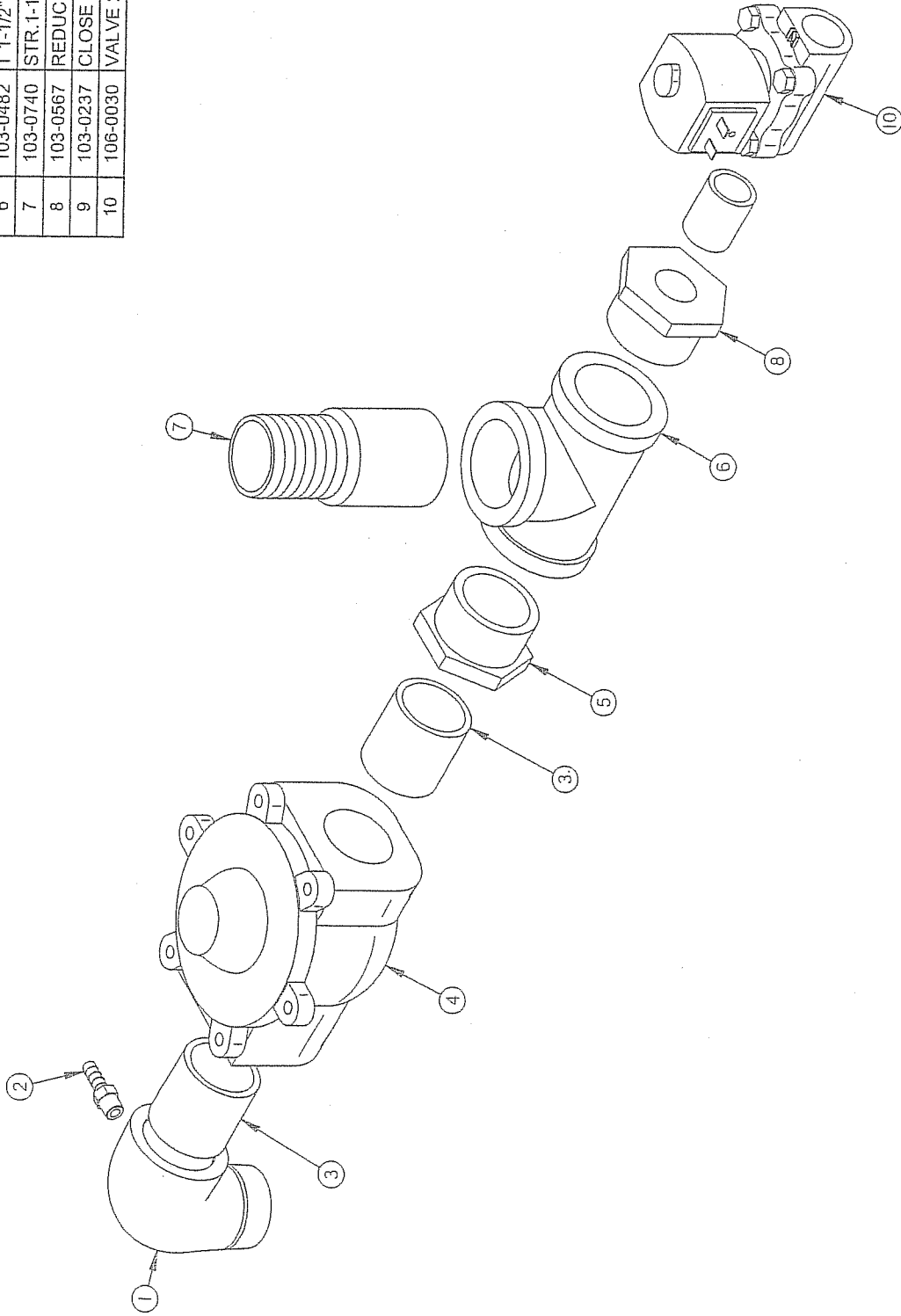


DEPT. FOR. METRIC INCH USANCE 1.01 ± 0.004 CADRAGE 1.01 ± 0.004 SOUDAGE 1.05 ± 0.004		N.T.S.	
600A		SIPROMAC ST-GERMAIN DE GRANTIAM QUEBEC CANADA	
PUMP "BUSCH" 63 M ³ ASSY		DEPT. M-I DTY. 1	
DATE 04-02-23	DWG BY B.C.	NO. 004A1470	
APP. BY Lt	DATE		

LET. _____ DATE INT. _____
 MODIFICATION _____

1004A1404

ITEM	PART #	DESCRIPTION	QT.
1	003-0074	BELLOWS ELBOW CONNECTOR	1
2	101-0190	STRAIGHT 1/8MNPT x1/4" HOSE BARB	1
3	103-0247	CLOSE NIPPLE 1 1/4" NPT ZINC	2
4	106-0050	VALVE 2WAY 24V 1-1/4"NPT(B60)60Hz	1
5	103-0577	RED. BUSH. 1 1/2"npt. X 1 1/4"npt. ZINC	1
6	103-0482	T 1-1/2"NPT ZINC	1
7	103-0740	STR. 1-1/2"MNPTx1-1/2"HOSE ZC	1
8	103-0567	REDUC. 1-1/4"NPT x 3/4"NPT ZINC	1
9	103-0237	CLOSE NIPPLE 3/4" NPT	1
10	106-0030	VALVE 2WAY 24V 3/4"NPT(G95) 60Hz	1



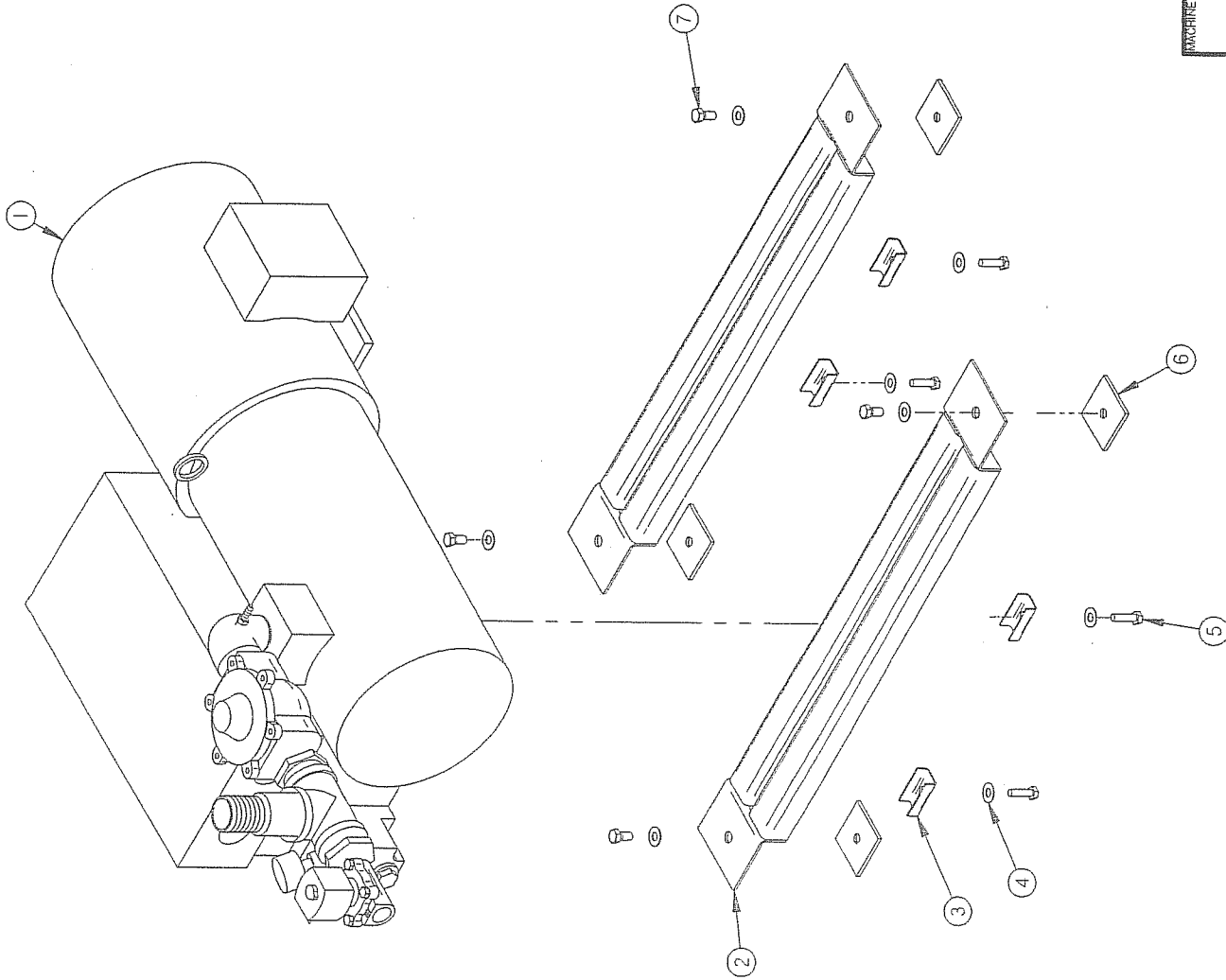
-63 m³ & 100 m³ OPTION -

MACHINE	600A & 620A	DEPT. DIM. METRIC	USINAGE ± 0.1 TOLERANCE ± 0.004 SOUDEGE ± 0.5	IRISH	SIPROMAC
PART	VACUUM / ATMOSPHERE VALVE ASSY.	N.T.S.	ST-GERMAIN DE GRANTHAIR QUEBEC CANADA		
ITEM		DATE	04-01-22	DEPT.	M-1
DATE		APP. BY	J.G.	NO.	004A1404
		BY	L.T.	QTY.	1

LET / MODIFICATION / DATE INT

004A1468

ITEM	PART #	DESCRIPTION	QT.
1	007A0115	"BUSCH" 100M3 & PLUMBING	1
2	005-0104	PUMP SUPORT ASSEMBLY	2
3	001-0199	PUMP FIXATION	4
4	051-0780	WASHER 3/8" FLAT S/S	8
5	052-4220	BOLT M8 x 30 ZINC	4
6	005-0088	PUMP SUPP. FIX. PLATE ASSY	4
7	051-0350	BOLT 3/8"-16nc. X 3/4" S/S	4

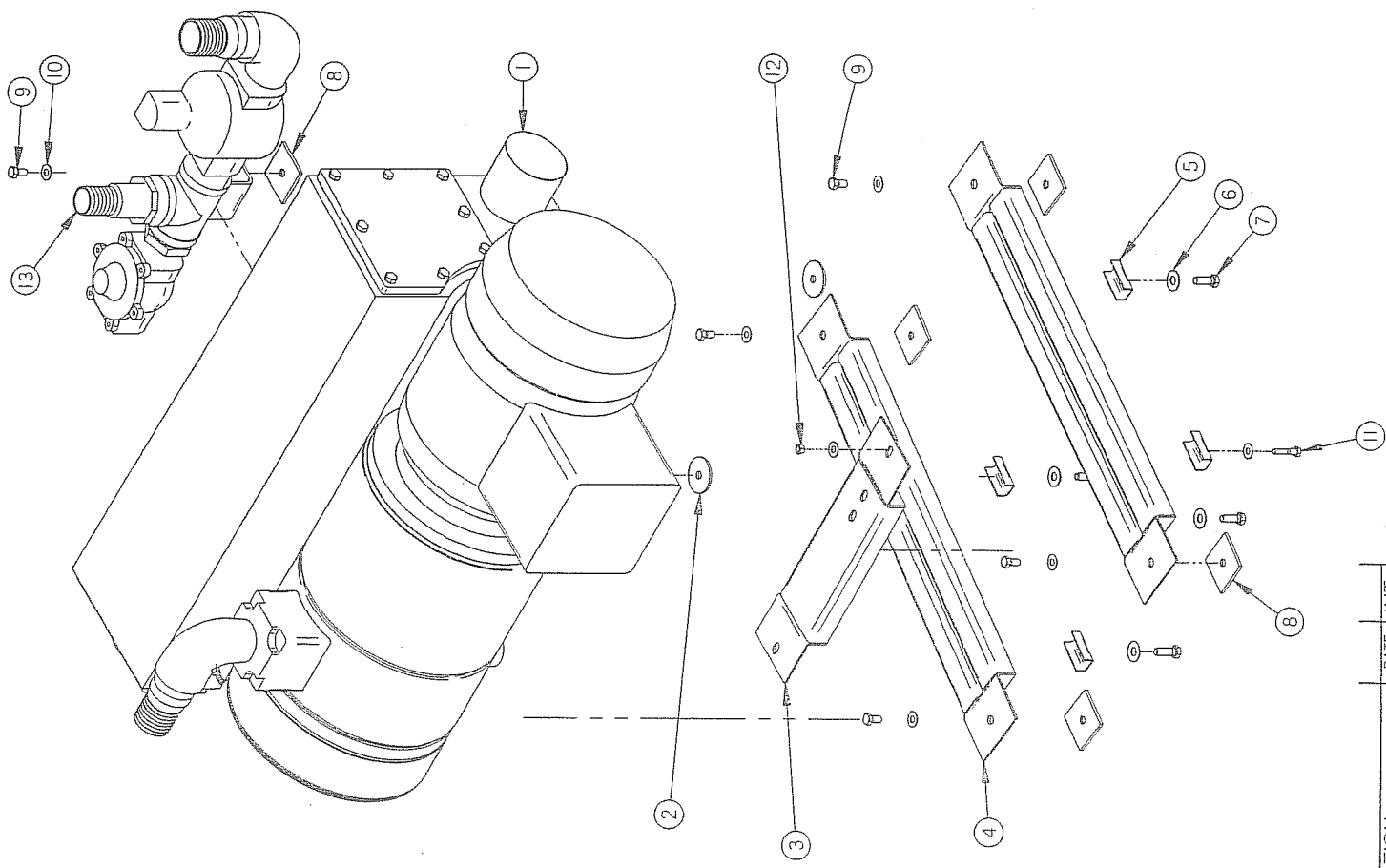


MACHINE		DEPT.	LOC.	METRIC	INCH
600A & 620A		USINAGE	1	± 0.001	
PART		CNC	2	± 0.002	
PUMP "BUSCH" 100 M ³ ASSEMBLY		SOUDEUSE	3	± 0.5	
ITEM			4	± 0.002	
MAT.			5		
CNC			6		
DATE 04-02-24		DATE		DATE	
DESIGN BY B.C.		DATE		DATE	
APP. BY LT		DATE		DATE	
DEPT.		DEPT.		DEPT.	
M-I		M-I		M-I	
QTY. 1		QTY. 1		QTY. 1	
NO. 004A1468		NO.		NO.	

LET. _____ DATE INT. _____
 MODIFICATION _____

004A1469

ITEM	PART #	DESCRIPTION	QT.
1	007A0112	"BUSCH" 165M3 & PLUMBING	1
2	001A2952	WASHER 0.469"Ø ID x 2.010OD x 3.5	2
3	004A1454	PUMP SUPPORT ASSY	1
4	005-0104	PUMP SUPPORT ASSEMBLY	2
5	001-0199	PUMP FIXATION	4
6	051-0785	WASHER 7/16" FLAT S/S	4
7	052-4240	BOLT M10 x 30 HEX. ZINC	4
8	005-0088	PUMP SUPP. FIX. PLATE ASSY	5
9	051-0350	BOLT 3/8"-16nc. X 3/4" S/S	5
10	051-0780	WASHER 3/8" FLAT S/S	7
11	051-0310	BOLT 5/16"-18nc. X 1 1/2" S/S	1
12	051-0600	NUT 5/16" -18 S/S	1
13	004-0863	VACUUM / ATMOSPHERE VALVE ASSY	1



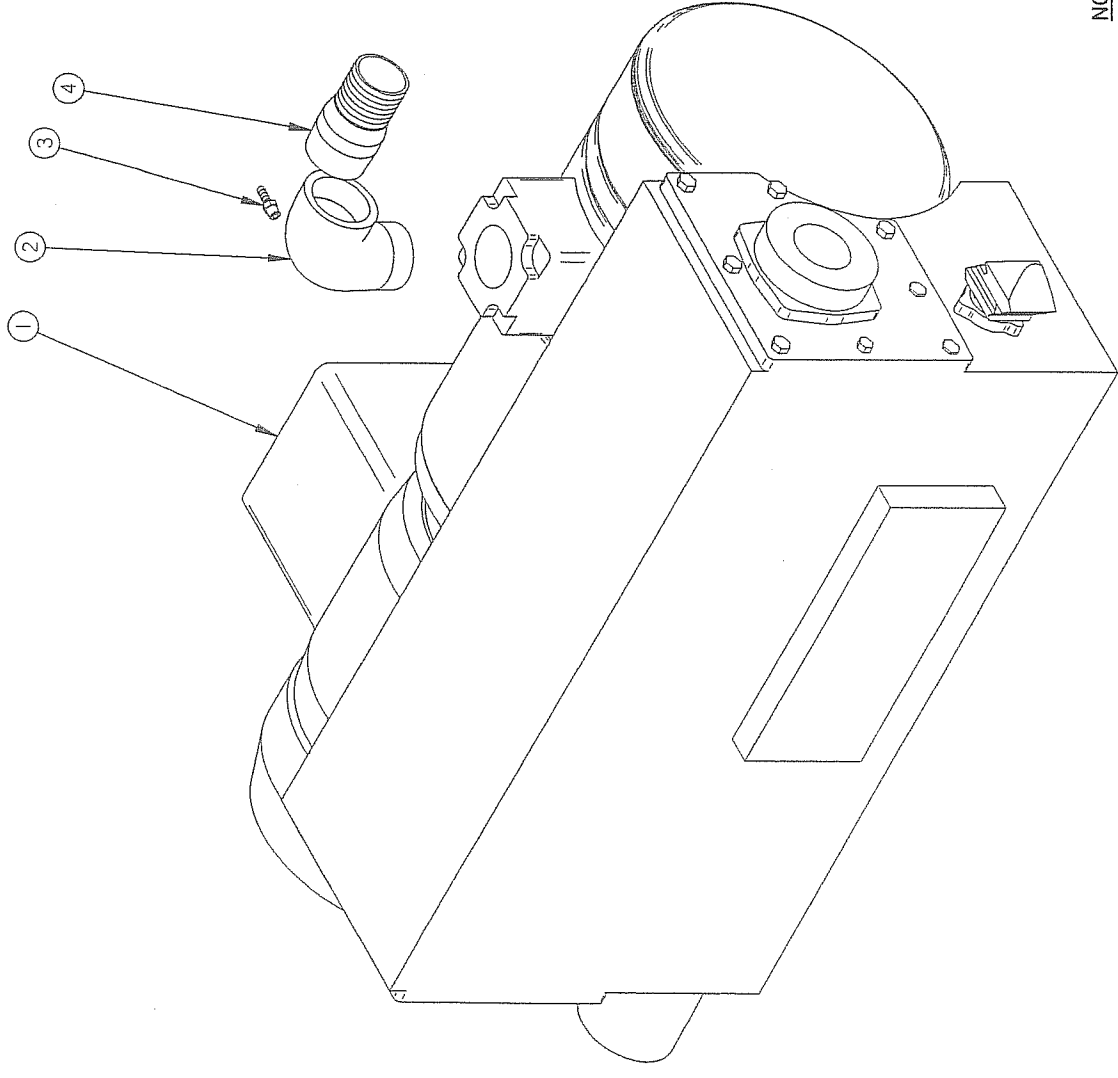
MACHINE		600A & 620A		SIPROMAC	
PART		PUMP "BUSCH" 165 M ³ ASSEMBLY		ST-GERMAIN DE GRANTHAM QUEBEC CANADA	
ITEM	QTY	DATE	DATE	DEPT	QTY
		04-02-24			1
CNC		APPROVED BY		M-I	
DRAWN BY		DATE		NO.	
B.C.		04-02-24		004A1469	
APP BY		DATE		M-I	

LET. MODIFICATION DATE INT.

007A0112

ITEM	PART #	DESCRIPTION	QT.
1	125-XXXX	PUMP BUSCH 165M3	1
2	003-0073	BELLOWS ELBOW CONNECTOR	1
3	101-0190	STRAIGHT 1/8MNPT x1/4" HOSE BARB	1
4	103-0760	STRAIGHT 2"mnpt. X 2" HOSE ZINC	1

VOIR NOTE



NOTE:

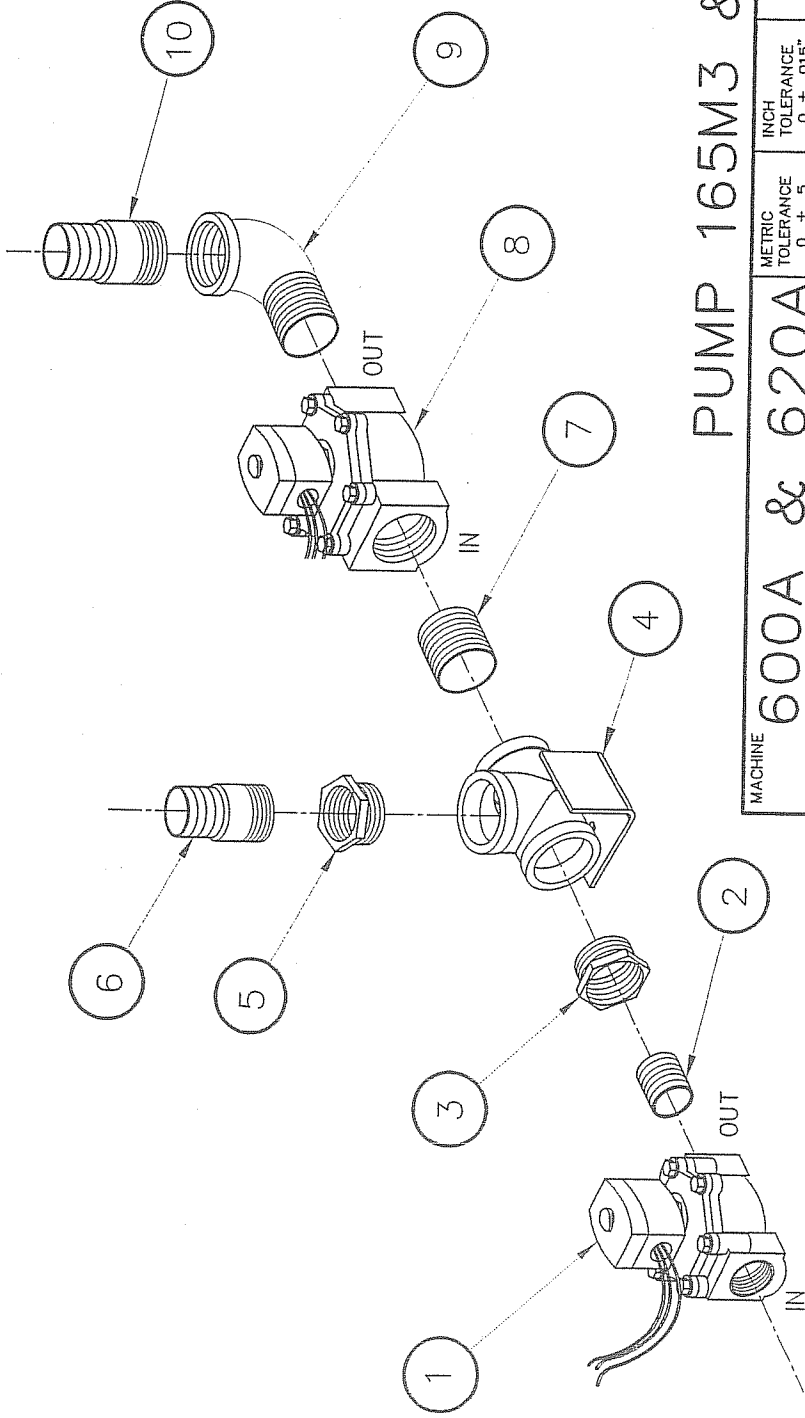
- 125-0070 PUMP BUSCH 165M/230-460V/3PH/60Hz / 400V/3PH/50Hz.
- 125-0075 PUMP BUSCH 165M/575V/3PH/60Hz

MACHINE		DEPT. TO METRIC		TOLERANCE		DEPT.	
600A, 620A, 650A, 680A & 700A		1:1		± 0.004		SIPROMAC	
PART		USINAGE		TOLERANCE		ST-GERMAIN DE GRANTHAM	
"BUSCH" 165M3 & PLUMBING		1:0.5		± 0.020"		QUEBEC CANADA	
ITEM		SOUDAGE		1:0.5		N.T.S.	
MAT		CNC		DATE		M-I	
		DWG BY J.G.		DATE 04-01-22		NO	
		APP BY J.T.				007A0112	
						QTY. 1	

A	MODIF. #A-0392	04-01-22	J.G.
LET.	MODIFICATION	DATE	INT

004-0863

ITEM	#PART	DESCRIPTION	QT.
1	106-0050	VALVE 2WAY /24V /60Hz / 1-1/4" NPT	1
2	103-0247	CLOSE NIPPLE 1-1/4" NPT ZINC	1
3	103-0587	RED.BUSHING 2" NPT x1-1/4"NPT ZINC	1
4	004A1621	VAC./ATM. VALVE SUPP. PRE-ASSY	1
5	103-0592	RED.BUSHING 2"NPT x 1-1/2" NPT ZINC	1
6	103-0740	STRIGHT 1-1/2"NPT x 1-1/2"HOSE ZINC	1
7	103-0260	CLOSE NIPPLE 2"NPT ZINC	1
8	106-0060	VALVE 2WAY /24V /60Hz / 2" NPT	1
9	103-0095	ELBOW STREET 2"NPT ZINC	1
10	103-0760	STRIGHT 2"NPT x 2"HOSE ZINC	1



PUMP 165M3 & 255M3

MACHINE
600A & 620A

PART
VACUUM/ATMOSPHERE VALVE ASSY.

METRIC TOLERANCE	INCH TOLERANCE
0. ± .5	.0 ± .015"
.0 ± .05	.00 ± .005"
.00 ± .005	.000 ± .0005"
.000 ± .0005	N.T.S.
ANGLE ± 1°	

SIPROMAC
ST-GERMAIN DE GRANTHAM
QUEBEC CANADA

CNC:

DATE 01-01-29
BY DAVE A
APP. *[Signature]*

M.A.L.
INT.

DATE 05-08-11

A 004A1621 WAS 004-0183, 165M3 WAS160M3, 255M3 x 250M3
MODIFICATION

M 1

NO.

DATE 05-08-23

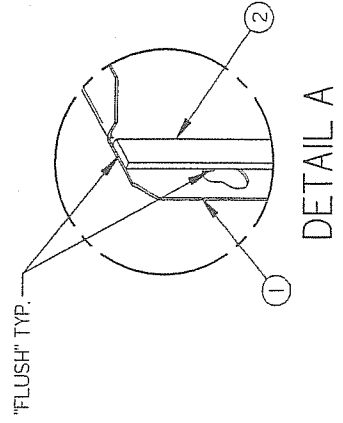
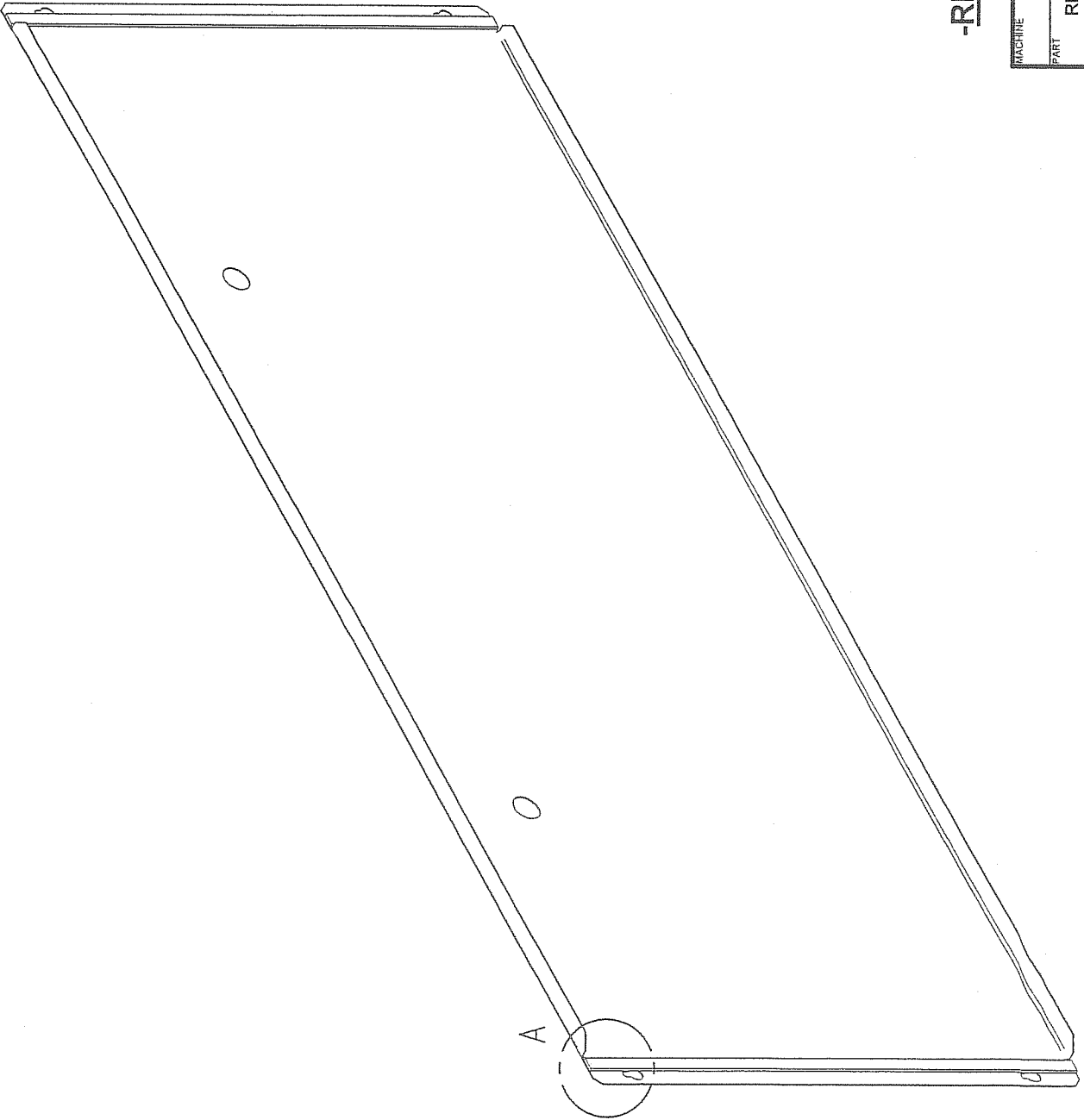
DATE 01-01-29

DATE 05-08-23

004-0863

1004-0726

ITEM	PART #	DESCRIPTION	QT.
1	001-2030	REAR GUARD	1
2	179-0004 (3.6')	NEOPRENE SPONGE 1/8" x 1/2" ADHESIVE	1



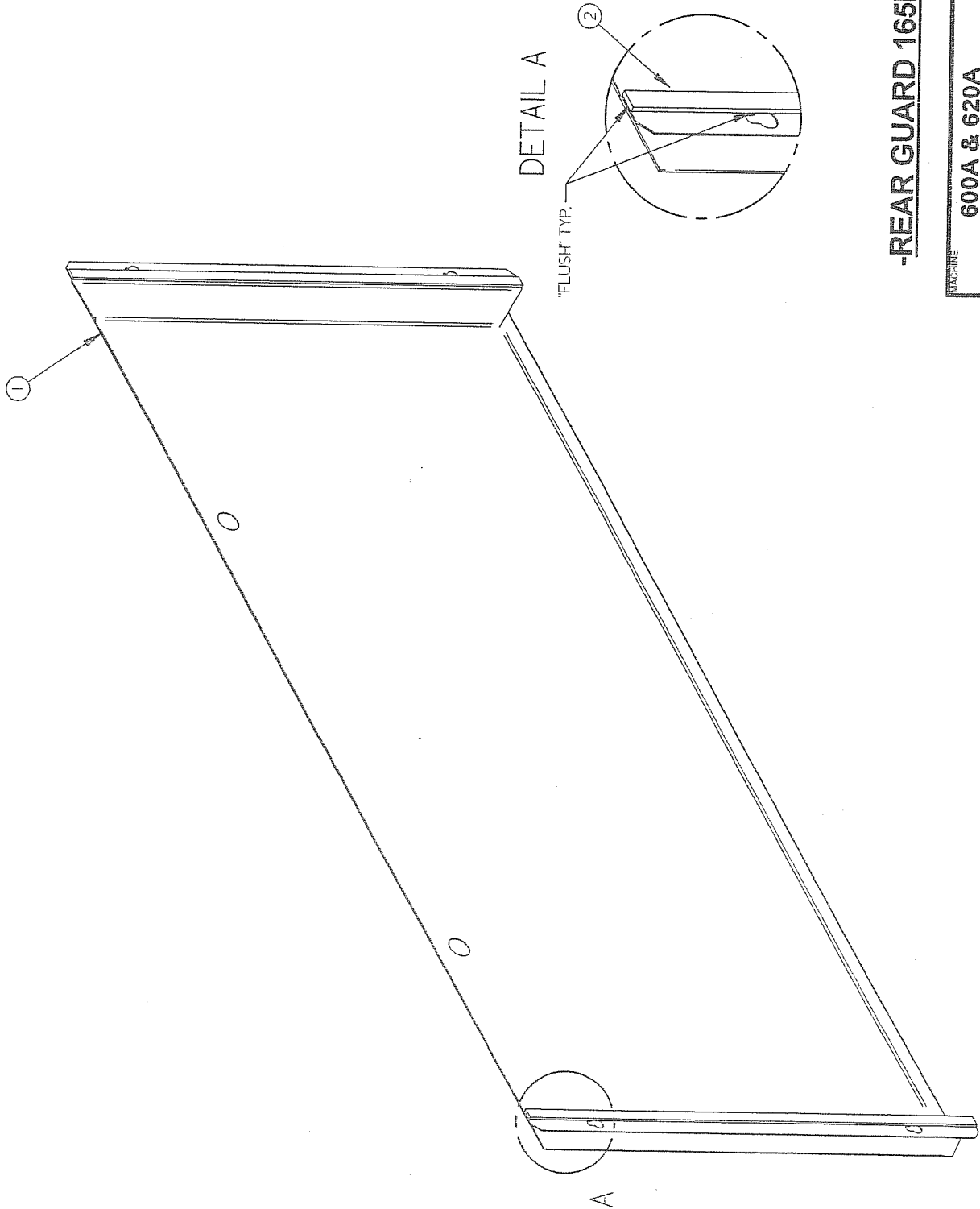
-REAR GUARD OPTION-

MACHINE	600A & 620A	DEPT. TOL.	± 0.1	METRIC	± 0.001	INCH	± 0.001	SIPROMAC
PART	REAR PANEL PRE-ASSEMBLY	USINAGE	± 0.05	COLIERIE	± 0.001	SOLDANSE	± 0.001	ST-GERMAIN DE GRANTHAM QUEBEC CANADA
ITEM	CNC	N.T.S.		N.T.S.		N.T.S.		DEPT.
DATE	06-03-07	DATE	06-03-07	DATE	06-03-07	DATE	06-03-07	DEPT.
APP. BY	J.G.	APP. BY	J.G.	APP. BY	J.G.	APP. BY	J.G.	DEPT.
NO.	004-0726	NO.	004-0726	NO.	004-0726	NO.	004-0726	DEPT.

A	REDESSINE	06-03-07	J.G.
LET.	MODIFICATION	DATE	INT.

004A0629

ITEM	PART #	DESCRIPTION	QTY.
1	004A2162	REAR PANEL 165 & 255M ³ PRE-ASS'Y	1
2	179-0004	NEOPRENE SPONGE 1/8" x 1/2" ADHESIVE (4.1')	1



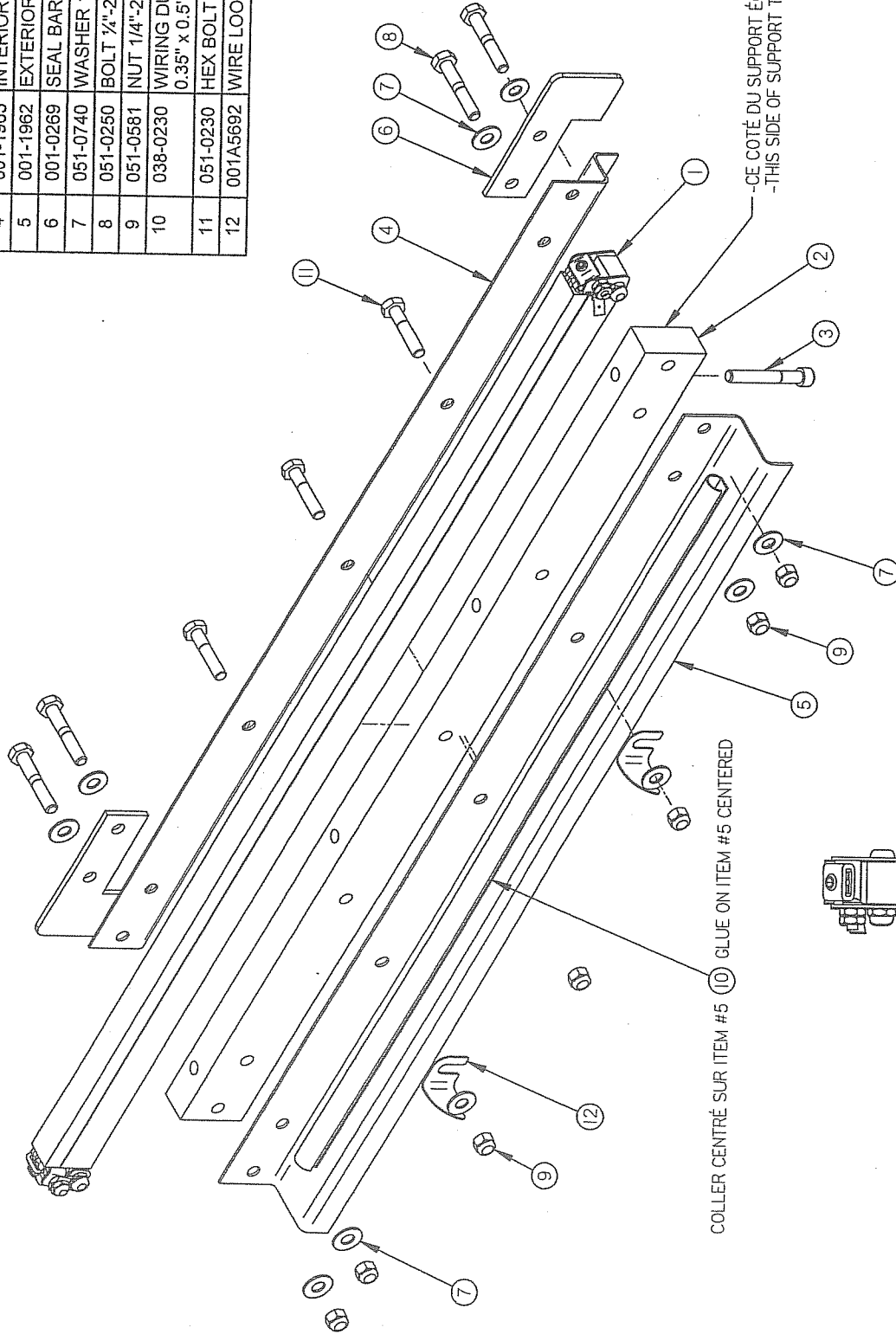
-REAR GUARD 165M³ & 255M³ OPTION-

MACHINE	600A & 620A	DEPT. ON METRIC	INCH	SIPROMAC
PART	REAR PANEL 165 & 255M ³ PRE-ASS'Y	TOLERANCE	± 0.5	ST-GERMAIN DE GRANTHAM
ITEM	CNC	SOUDEUSE	± 0.5	QUEBEC CANADA
DATE	06-02-22	N.T.S.		QTY. 1
APP. BY	J.G.	DATE	07-08-22	NO. 004A0629

LET	A	004A2162 ETAIT 001A2768	07-08-02	E.D.
		MODIFICATION	DATE	INT.

005A0568

ITEM	PART #	DESCRIPTION	QT.
1	005A0152	SEAL BAR PRE-ASSY	1
2	002-0514	SEAL BAR SUPPORT	1
3	051-0256	BOLT 1/4"-20nc. X 1 3/4" CAP SKT S/S	4
4	001-1963	INTERIOR BELLOW'S COVER	1
5	001-1962	EXTERIOR BELLOW'S COVER	1
6	001-0269	SEAL BAR GUIDE	2
7	051-0740	WASHER 1/4" FLAT S/S	10
8	051-0250	BOLT 1/4"-20nc. X 1 1/2" S/S	4
9	051-0581	NUT 1/4"-20 NYLON LOCK S/S	7
10	038-0230	WIRING DUCT W/ ADHESIVE BACKING (0.35" x 0.5" x 4.99 (1.7))	1
11	051-0230	HEX BOLT 1/4-20 x 1 1/4" SS	3
12	001A5692	WIRE LOOM SUPPORT #2	2



-CE COTÉ DU SUPPORT ÉGAL AVEC DE LA BARRE DE SCELLAGE.
-THIS SIDE OF SUPPORT TO FIT FLUSH W/ SEAL BAR.

-ITEM #2 ÉGAL AVEC L'ITEM #4 & #5.
-ITEM #2 FLUSH WITH ITEM #4 & #5.

-END VIEW-

-TWIN SEAL OPTION -

MACHINE	550A & 600A
PART	SEAL BAR ASS'Y W/SUPPORT
ITEM	
MAT.	

UNIT	INCH
US TO METRIC	± 0.005
METRIC TO US	± 0.005
TOLERANCE	± 0.005
WELDING	± 0.005
FINISH	N.T.S.

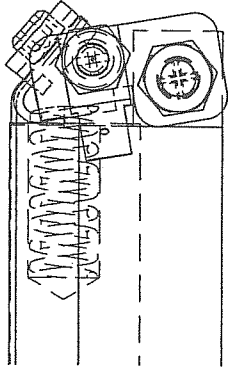
600A	4
550A	2
MACHINE	QTY
SIPROMAC	
ST-GERMAIN DE GRANTHAM	
QUEBEC CANADA	

D	REDESSINE - AJOUTER 001A5692	11-08-30	J.G.
LET.	MODIFICATION	DATE	INT.

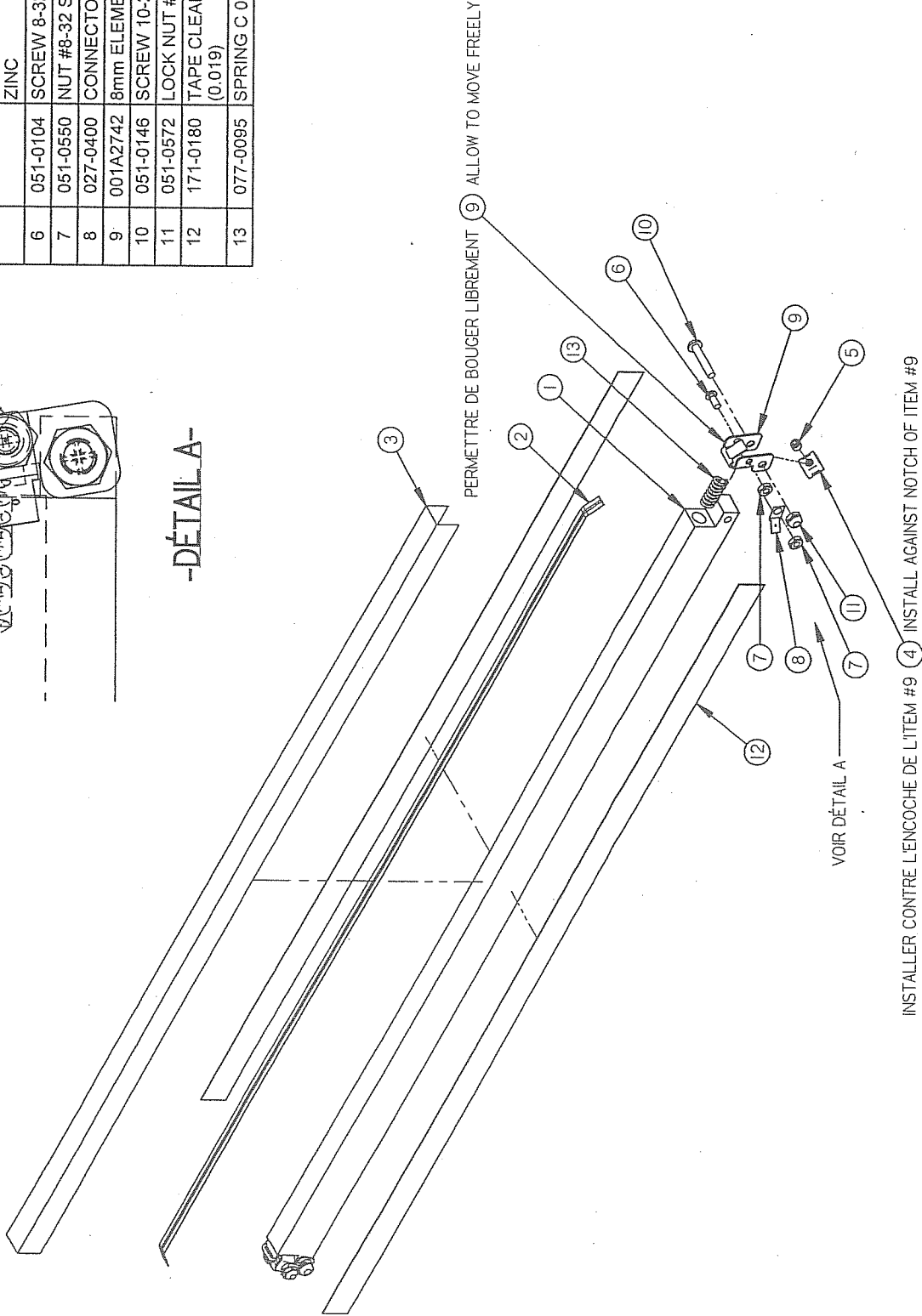
DATE	11-08-30
DATE	11-08-30
DWG BY	J.G.
APP BY	
DEPT.	M-I(M)
NO	005A0568
QTY	LISTE

1005A0152

ITEM	PART #	DESCRIPTION	QT.
1	002A0314	SEAL BAR	1
2	039-0268	DOUBLE SEAM BAND (8MM) (2.3)	1
3	176-0200	TEFLON TAPE, 5MIL (0.78)	1
4	056-1401	3/8"SET SCREW BANDING BUCKLE S/S	2
5	052-0393	SCREW 1/4-28x3/16"SKT SET OVAL POINT ZINC	2
6	051-0104	SCREW 8-32 x 3/8" RND PHIL S/S	2
7	051-0550	NUT #8-32 SS	4
8	027-0400	CONNECTOR ADAPTOR	2
9	001A2742	8mm ELEMENT BINDER	2
10	051-0146	SCREW 10-24 X 1" PAN PHIL S/S	2
11	051-0572	LOCK NUT #10-24 S/S	2
12	171-0180	TAPE CLEAR SUPER BOND 3/4" 641.5mm (0.019)	2
13	077-0095	SPRING C 0360-059-1250 S/S	2



-DÉTAIL A-



-TWIN SEAL OPTION-

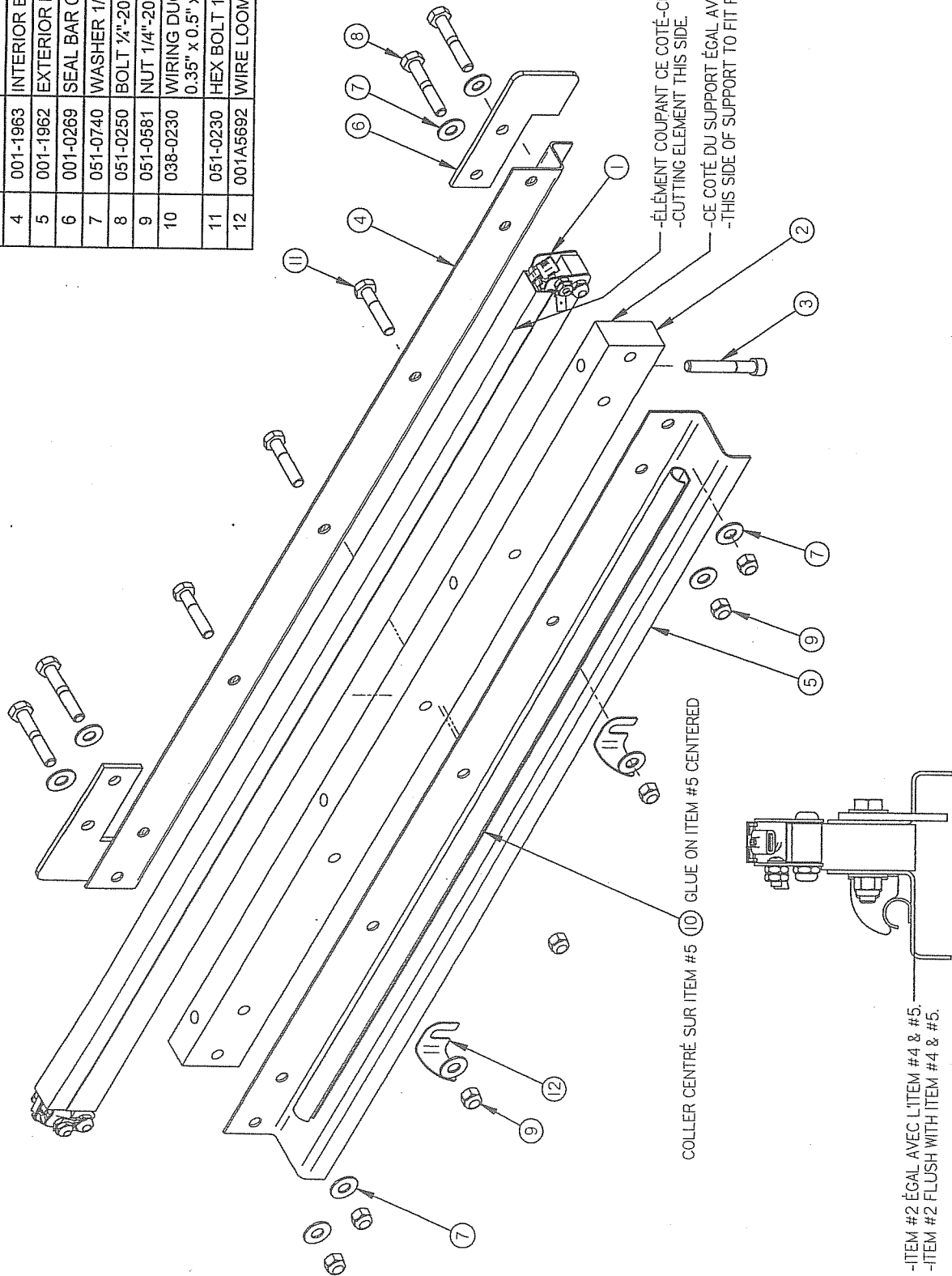
600A	4
550A	2
MACHINE QTY	
SIPROMAC	
ST-GERMAIN DE GRANTHAM	
QUEBEC CANADA	
M-(M)-I	QTY
005A0152	

MACHINE	550A & 600A	DESIGNATION	SEAL BAR PRE-ASSY
PART		USINAGE	± 0.004
ITEM		TOLERIE	± 0.5
MAT.		SOUDAGE	± 0.5
			± 0.025
			N.T.S.
			DEPT.
			DATE 05-09-13
			NO 1009-02
			APP BY

H	MODIF. A-453 AJOUTER 077-0095	10-05-01	J.G.
G	ADDED 052-0393	06-04-19	M.A.
F	051-0104 & 001B2742 ETAIT 051-0100 & 009A0187	05-05-06	J.G.
E	REDRAWN	05-05-13	M.A.
LET.	MODIFICATION	DATE	INT.

1005B0569

ITEM	PART #	DESCRIPTION	QT.
1	005B0153	SEAL BAR PRE-ASSY	1
2	002-0514	SEAL BAR SUPPORT	1
3	051-0256	BOLT 1/4"-20nc. X 1 3/4" CAP SKT S/S	4
4	001-1963	INTERIOR BELLOWS COVER	1
5	001-1962	EXTERIOR BELLOWS COVER	1
6	001-0269	SEAL BAR GUIDE	2
7	051-0740	WASHER 1/4" FLAT S/S	10
8	051-0250	BOLT 1/4"-20nc. X 1 1/2" S/S	4
9	051-0581	NUT 1/4"-20 NYLON LOCK S/S	7
10	038-0230	WIRING DUCT W/ ADHESIVE BACKING (0.35" x 0.5" x 499 (1.7))	1
11	051-0230	HEX BOLT 1/4-20 x 1 1/4" SS	3
12	001A5692	WIRE LOOM SUPPORT #2	2



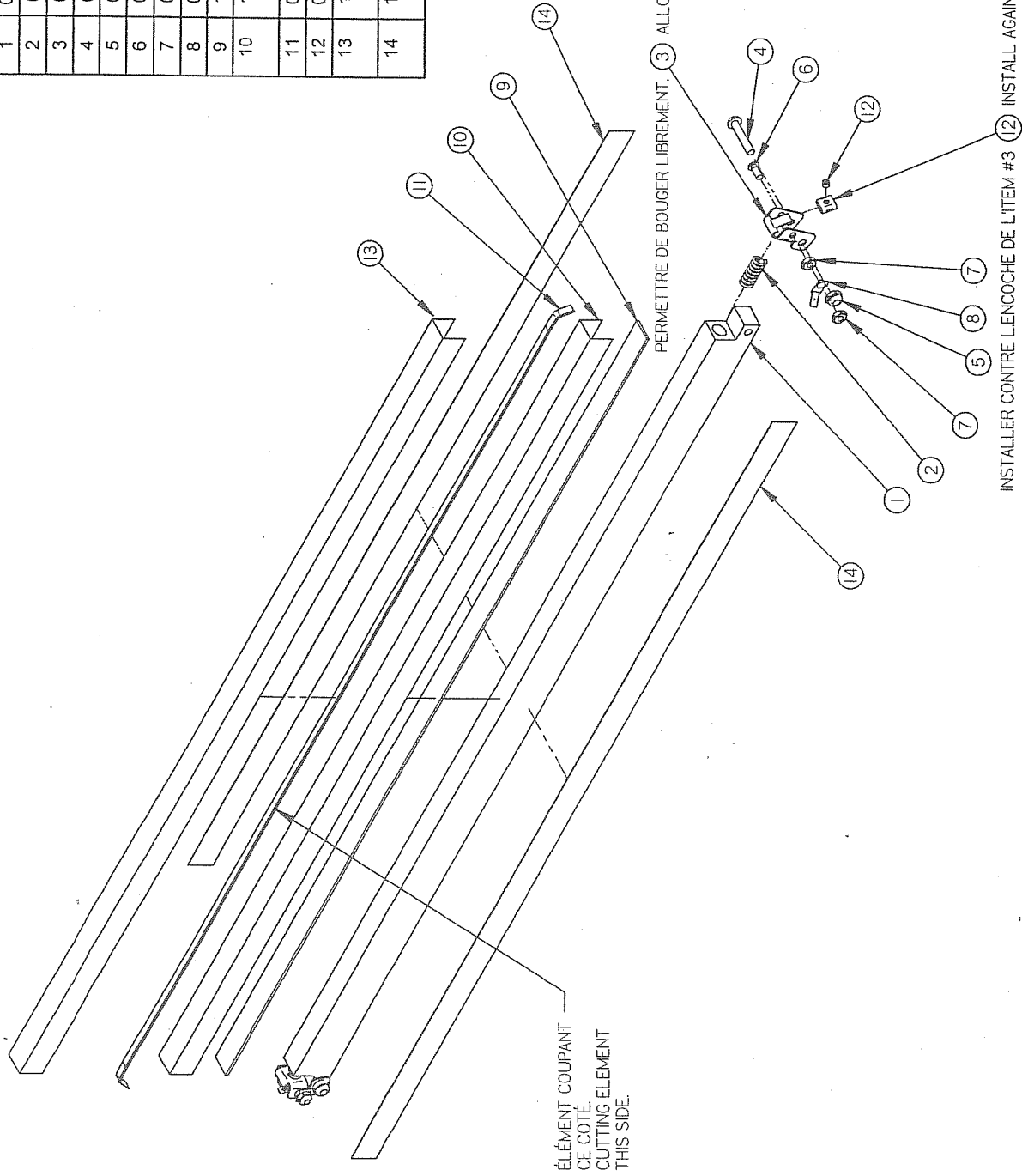
-BAG CUT OPTION-

MACHINE	550A & 600A	DEPT	TOOL	INCH	NO
PART	SEAL BAR ASSY W/SUPPORT	USINAGE	± 0.1	± 0.004"	11-08-30
ITEM		TOLERIE	± 0.5	± 0.020"	DATE
MAT.		SOLDAGE	± 0.5	± 0.020"	APP BY
					J.G.
					11-08-30
					DATE
					INT.
					MODIFICATION
					REDESSINE - AJOUTER 001A5692
					11-08-30
					J.G.
					DATE
					INT.
					LISTE
					M-I-(M)
					QTY
					005B0569

600A	4
550A	2
MACHINE	QTY
SIPROMAC	
ST-GERMAN DE GRANTHAM	
QUEBEC CANADA	

005B0153

ITEM	PART #	DESCRIPTION	QT.
1	002A0314	SEAL BAR	1
2	077-0095	SPRING C 0360-059-1250 S/S	2
3	001-2666	ELEMENT BINDER	3
4	051-0146	SCREW 10-24 X 1" PAN PHIL S/S	2
5	051-0572	LOCK NUT #10-24 S/S	2
6	051-0104	SCREW 8-32 X 3/8" RND PHIL S/S	2
7	051-0550	NUT #8-32 SS	4
8	027-0400	CONNECTOR ADAPTOR	2
9	179-0003	SILICONE 2mm x 15mm 641.5mm (0.64)	1
10	176-0220	TEFLON TAPE, PRESS SENSITIVE 2" 641.5mm (0.078)	1
11	039-0269	SEAL CUT ELEMENT (0.0688)	1
12	056-1400	1/4" SET SCREW BANDING BUCKLE S/S	2
13	176-0203	TEFLON TAPE, 5MIL UNCOATED ZONE 641.5mm (0.064)	1
14	171-0180	TAPE CLEAR SUPER BOND 3/4" 641.5mm (0.019)	2



INSTALLER CONTRE L'ENCOCHE DE L'ITEM #3 (12) INSTALL AGAINST NOTCH OF ITEM #3

-BAG CUT OPTION-

MACHINE	550A & 600A	DEPT.	M.A.L.
PART	SEAL BAR PRE-ASSY	DATE	06-05-29
ITEM		APP. BY	
MATERIAL			

DEPT.	METRIC	INCH
PERFORATION	± 0.0025	± 0.0007
TOLERANCE	± 0.5	± 0.0027
SOUDAGE	± 0.5	± 0.0027

ST-GERMAIN DE GRANBY/04H	DEPT.	
QUEBEC CANADA		

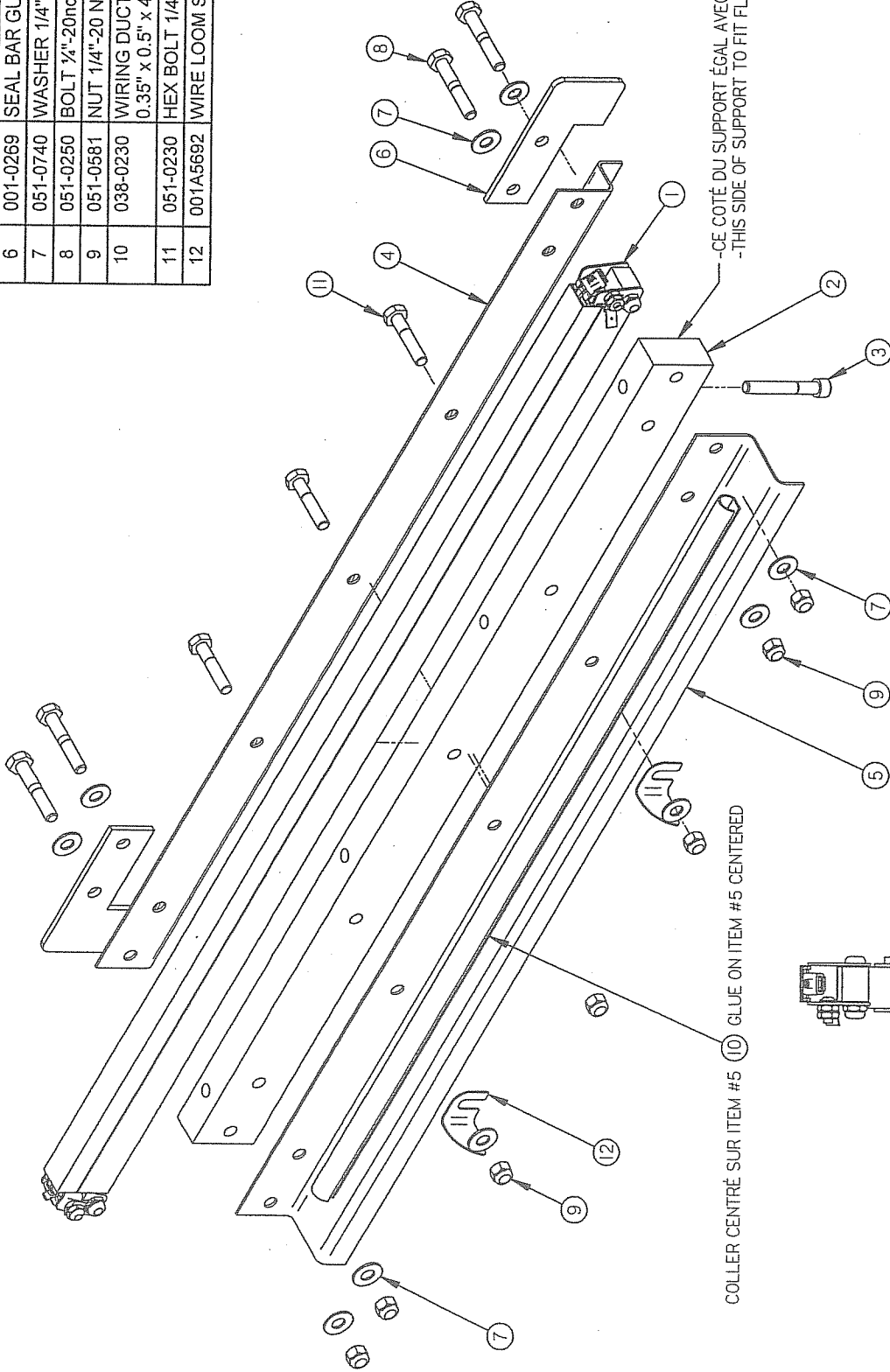
600A	4
550A	2
MACHINE	QTY

SIPROMAC	M-(M)-I	LISTE
005B0153		

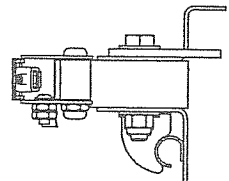
H	MODIF. A-453 002A0314 ÉTAIT 009A0191	10-06-01	J.G.
G	REDRAWN	06-05-29	M.A.
LET.	MODIFICATION	DATE	INT.

005A0570

ITEM	PART #	DESCRIPTION	QT.
1	005A0370	SEAL BAR PRE-ASSY	1
2	002-0514	SEAL BAR SUPPORT	1
3	051-0256	BOLT 1/4"-20nc. X 1 3/4" CAP SKT S/S	4
4	001-1963	INTERIOR BELLOW COVER	1
5	001-1962	EXTERIOR BELLOW COVER	1
6	001-0269	SEAL BAR GUIDE	2
7	051-0740	WASHER 1/4" FLAT S/S	10
8	051-0250	BOLT 1/4"-20nc. X 1 1/2" S/S	4
9	051-0581	NUT 1/4"-20 NYLON LOCK S/S	7
10	038-0230	WIRING DUCT W/ ADHESIVE BACKING (0.35" x 0.5" x 499 (1.7))	1
11	051-0230	HEX BOLT 1/4-20 x 1 1/4" SS	3
12	001A5692	WIRE LOOM SUPPORT #2	2



-CE COTÉ DU SUPPORT ÉGAL AVEC DE LA BARRE DE SCELLAGE.
-THIS SIDE OF SUPPORT TO FIT FLUSH W/ SEAL BAR.



-END VIEW-

-ITEM #2 ÉGAL AVEC L'ITEM #4 & #5.
-ITEM #2 FLUSH WITH ITEM #4 & #5.

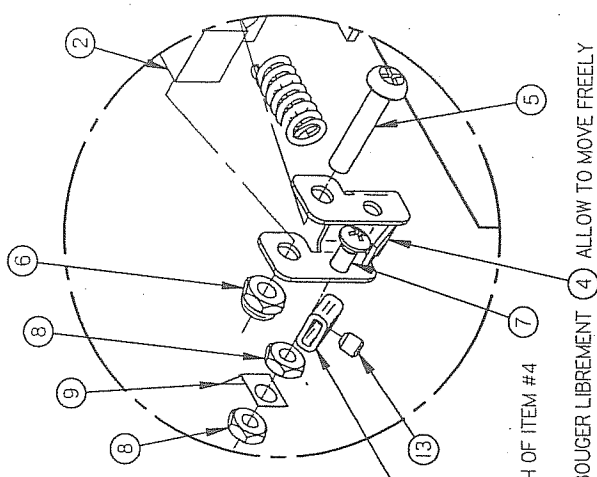
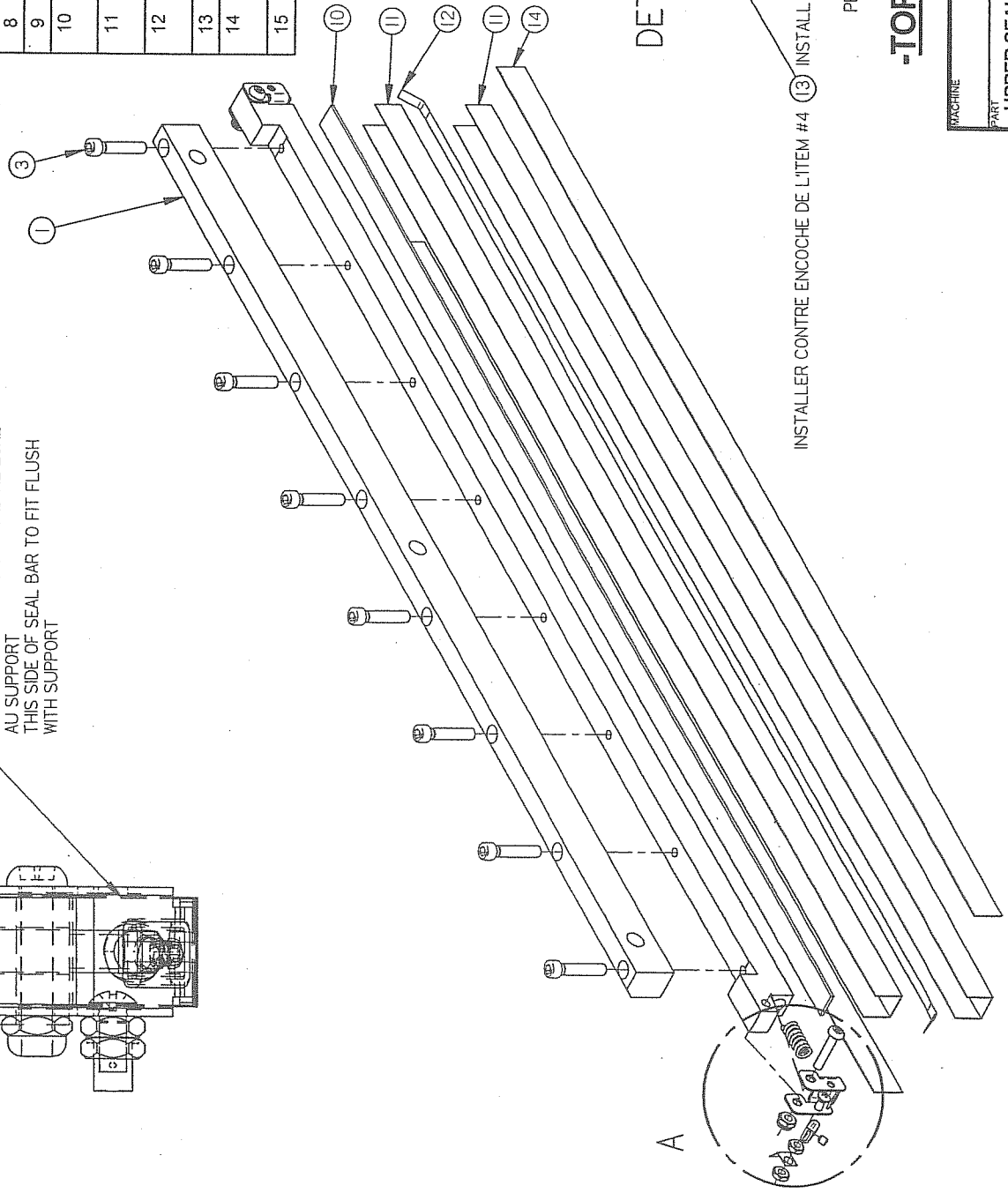
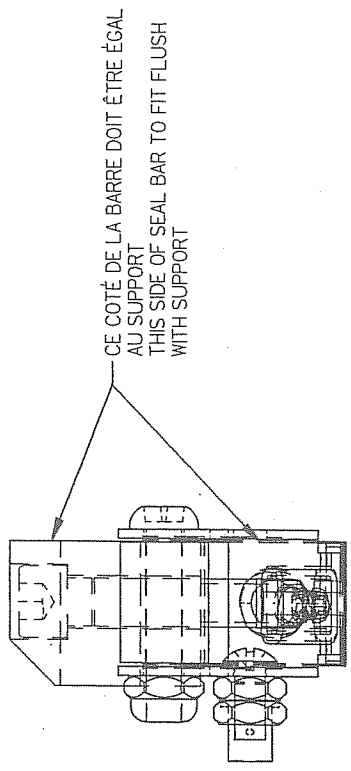
-TOP & BOTTOM SEALING OPTION-

MACHINE	550A & 600A	DEPT. TO METRIC	INCH	600A	4
PART	SEAL BAR ASSY W/SUPPORT	USINAGE	± 0.1	550A	2
ITEM		TOLERIE	± 0.020"	MACHINE	QTY
MAT.		SOUDAGE	± 0.5	SIPROMAC	
			± 0.020"	ST-GERMAIN DE GRANTHAM	
				QUEBEC CANADA	
				M-I(M)	LIST
				NO.	005A0570
				DATE	11-08-30
				APP. BY	J.G.
				DATE	11-08-30

C.	REDESSINÉ - AJOUTER 001A5692	11-08-30	J.G.
LET.	MODIFICATION	DATE	INT.

1005A0386

ITEM	PART #	DESCRIPTION	QT.
1	002A0534	UPPER SEAL BAR SUPPORT	1
2	002A0349	UPPER SEAL BAR	1
3	051-0232	SCREW 1/4-20x 1-1/4" SKT CAP SS	8
4	001-2666	ELEMENT BINDER	2
5	051-0146	SCREW 10-24 X 1" PAN PHIL S/S	2
6	051-0572	LOCK NUT #10-24 S/S	2
7	051-0104	SCREW 8-32 x 3/8" RND PHIL S/S	2
8	051-0550	NUT #8-32 SS	4
9	027-0400	CONNECTOR ADAPTOR	2
10	179-0003	SILICONE 2mm x 15mm ADHESIVE 683mm (0.68)	1
11	176-0220	TEFLON TAPE, PRESS.SENSITIVE 2" 683mm (0.08)	2
12	039-0220	BI-ACTIVE SEALING ELEMENT (6mm) 726mm (0.07)	1
13	056-1400	1/4" SET SCREW BANDING BUCKLE S/S	2
14	171-0180	TAPE CLEAR SUPER BOND 3/4" 650mm (0.020)	2
15	077-0095	SPRING C 0360-059-1250 S/S	2



DETAIL A

INSTALLER CONTRE ENCOCHE DE L'ITEM #4 (13) INSTALL AGAINST NOTCH OF ITEM #4

PERMETTRE DE BOUGER LIBREMENT (4) ALLOW TO MOVE FREELY

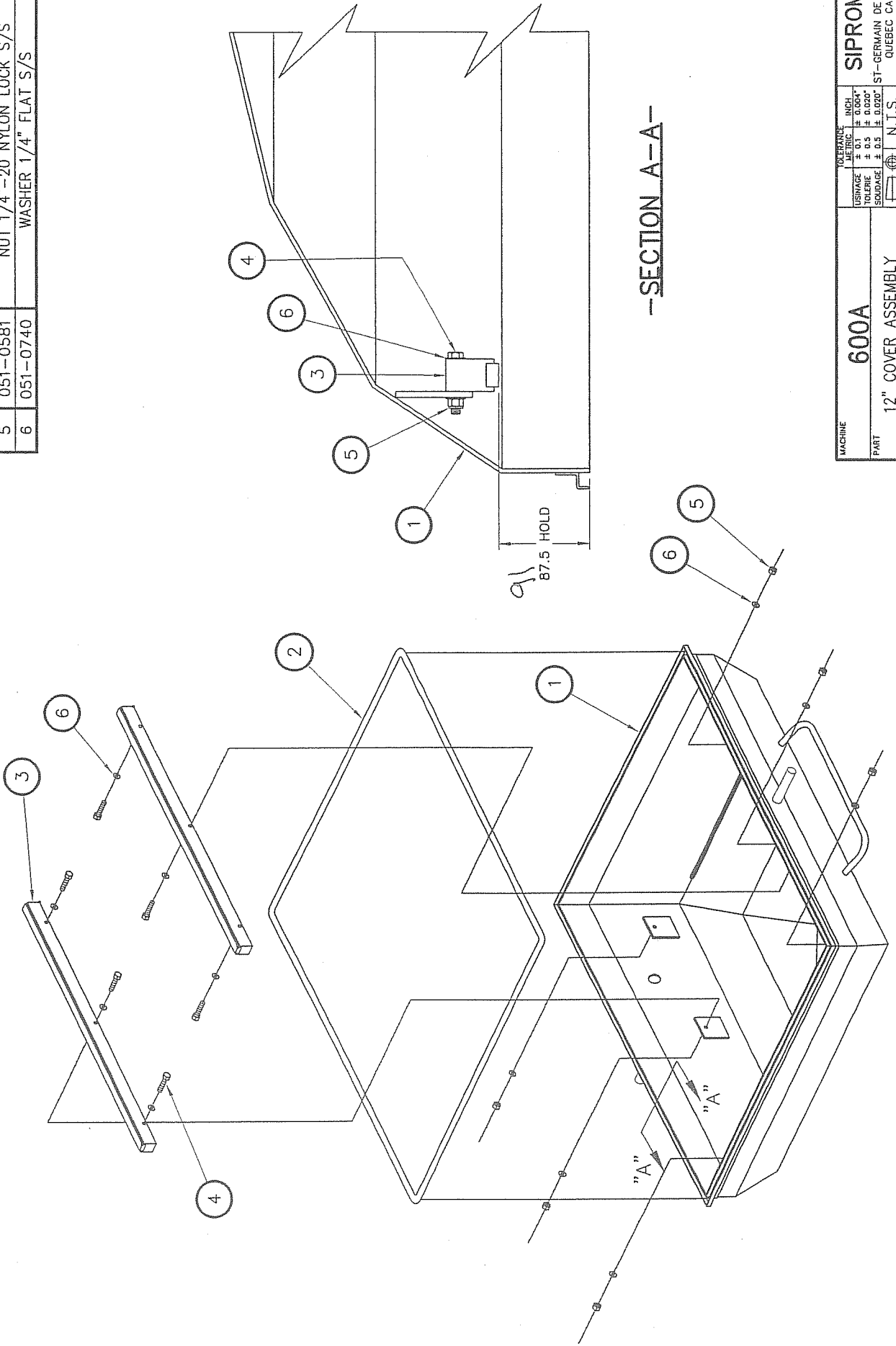
-TOP & BOTTOM SEALING OPTION-

MACHINE	600A	DEPT. TOL. METRIC / INCH	USINAGE ± 0.1	± 0.004	TOLERIE ± 0.5	± 0.020	SIPROMAC
PART	UPPER SEAL BAR ASSY WSUPPORT	SOUDAGE ± 0.5	± 0.5	ST-GERMAIN DE GRANTHAM	QUEBEC CANADA		
ITEM				N.T.S.			
DATE	07-12-17	DATE	07-12-17	NO	005A0386	DEPT.	M-(M)-I
APP. BY	J.G.	APP. BY	J.G.				

G	MODIF. A-453 AJOUTER 077-0095	10-06-01	J.G.
F	REDESSINE	07-12-17	J.G.
LET.	MODIFICATION	DATE	INT.

005-0454

ITEM	#PART	DESCRIPTION	QT.
1	004-0237	12" COVER EXTERIOR PRE-ASSEMBLY	1
2	179-0020	NEOPRENE SPONGE 1/2"	11.3
3	005A0573	UPPER SEAL BAR ASSEMBLY	2
4	051-0255	BOLT 1/4"-20 x 1 3/4" S/S	6
5	051-0581	NUT 1/4"-20 NYLON LOCK S/S	6
6	051-0740	WASHER 1/4" FLAT S/S	12



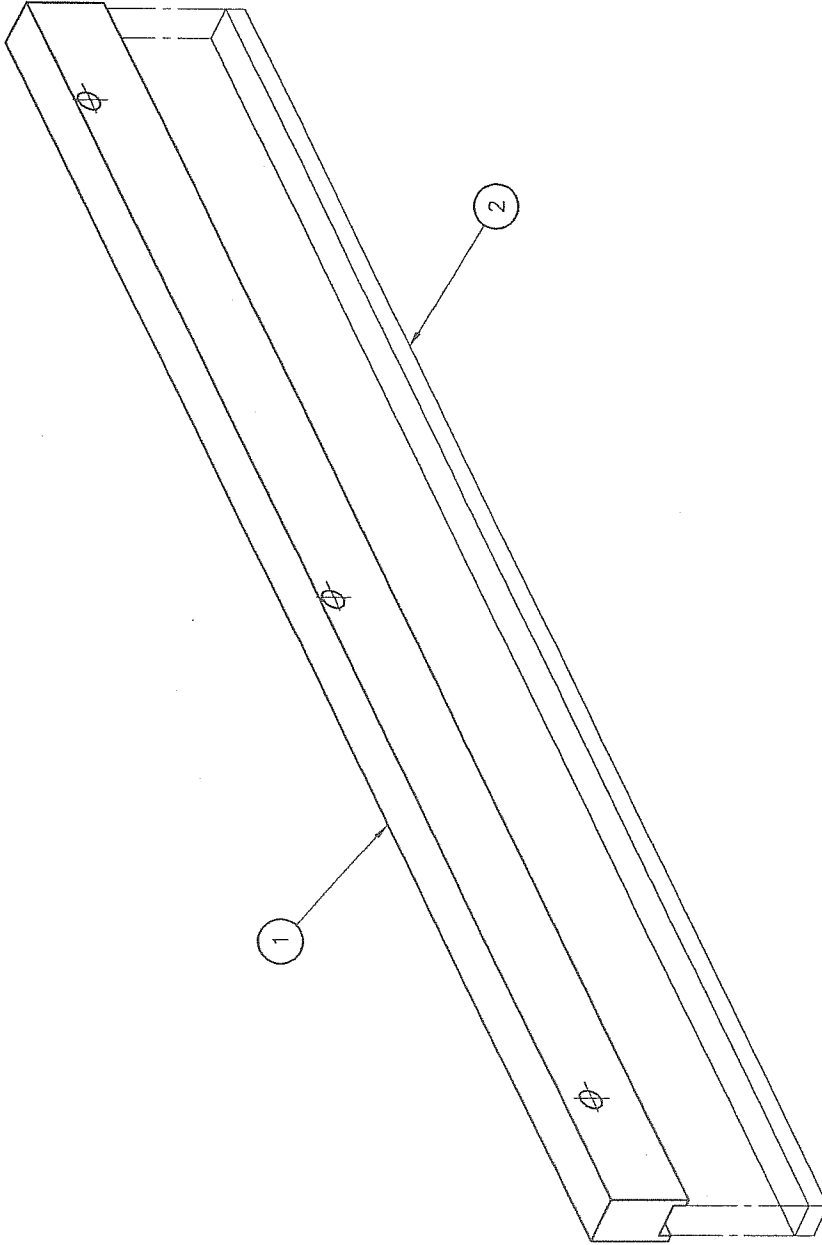
-SECTION A-A-

MACHINE	600A	USINAGE	± 0.1	METRIC	± 0.004"	INCH	± 0.004"	SIPROMAC	
PART	12" COVER ASSEMBLY	TOLERANCE	± 0.5	USINAGE	± 0.004"	METRIC	± 0.004"	ST-GERMAIN DE GRANTHAM	
ITEM:		DATE	99-04-13	DATE		DATE		QUEBEC CANADA	
MAT:		DATE		DATE		DATE			
ENG:		DATE		DATE		DATE			
APP:		DATE		DATE		DATE			
N.T.S.								QT.	1
								M	005-0454

LET.	A	MODIFIED VIEW ITEM #3 (UPPER SEAL BAR)	00-01-24	S.L.	INT.
		MODIFICATION	DATE		

1005A0573

ITEM	PART #	DESCRIPTION	QT.
1	002A0403	UPPER SEAL BAR SUPPORT	1
2	008-0311	UPPER SEAL BAR RUBBER	1



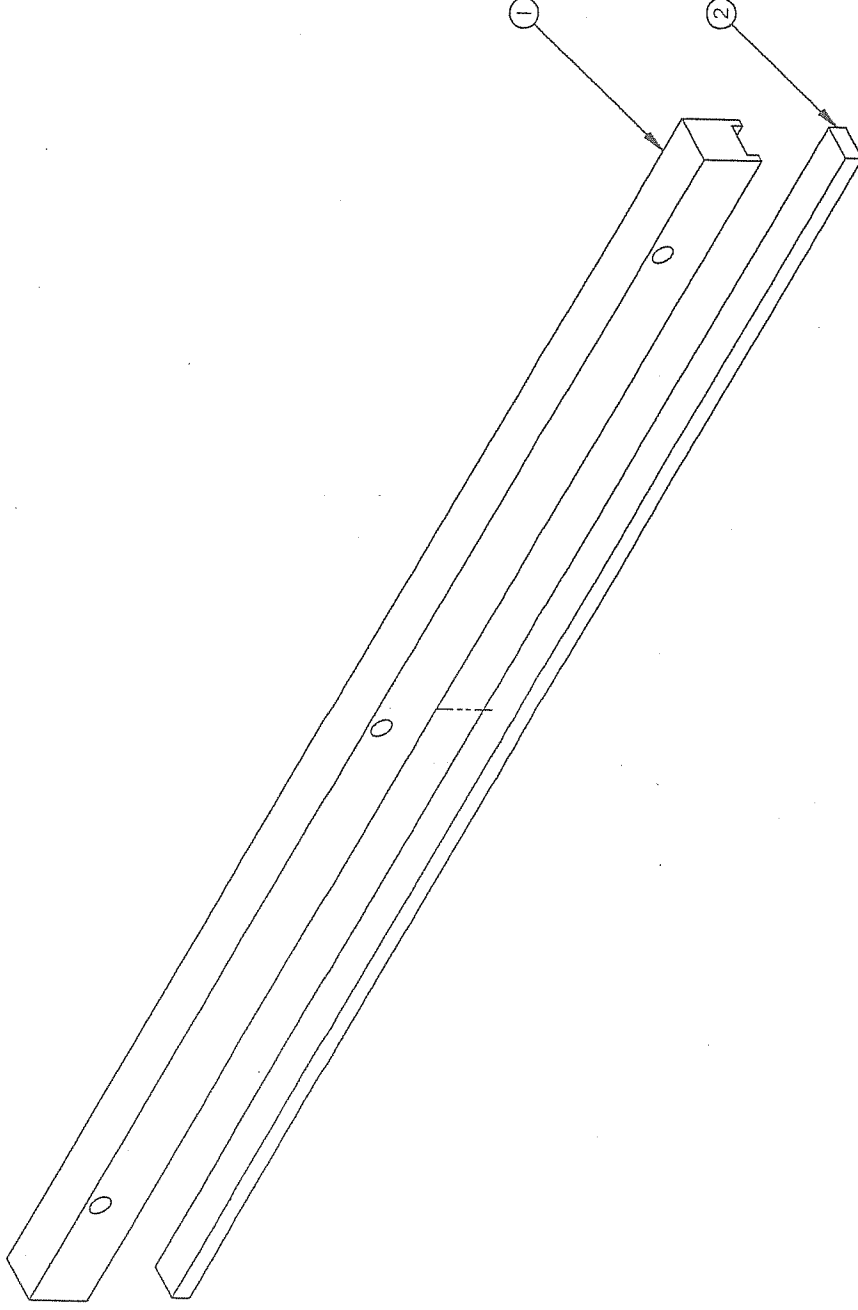
MACHINE	600A	INCH	FRANCE	SIPROMAC
PART	UPPER SEAL BAR ASSEMBLY	TOLERANCE	ST-GERMAIN DE GRANTHAM	QUEBEC CANADA
ITEM:	CNC:	METRIC	ANGLE ± 1°	SCALE
DATE	99-07-15	DATE	99-07-15	DATE
DATE	99-07-15	DATE	99-07-15	DATE
DATE	99-07-15	DATE	99-07-15	DATE

8	REDRAWN	MODIFICATION	S.L.	INT.
LET.	DATE	DATE	DATE	DATE

005A0573

004A1326

ITEM	PART #	DESCRIPTION	QT.
1	002A2061	UPPER SEAL BAR SUPPORT (E.C.O.)	1
2	008-0311	UPPER SEAL BAR RUBBER	1



-BAG CUT OPTION-

MACHINE	600A	DEPT.	M-I	QTY.	2
PART	UPPER SEAL BAR ASSEMBLY (E.C.O.)	DATE	08-04-30	NO	004A1326
ITEM		DATE	08-04-30	NO	004A1326
MAT		DATE	08-04-30	NO	004A1326

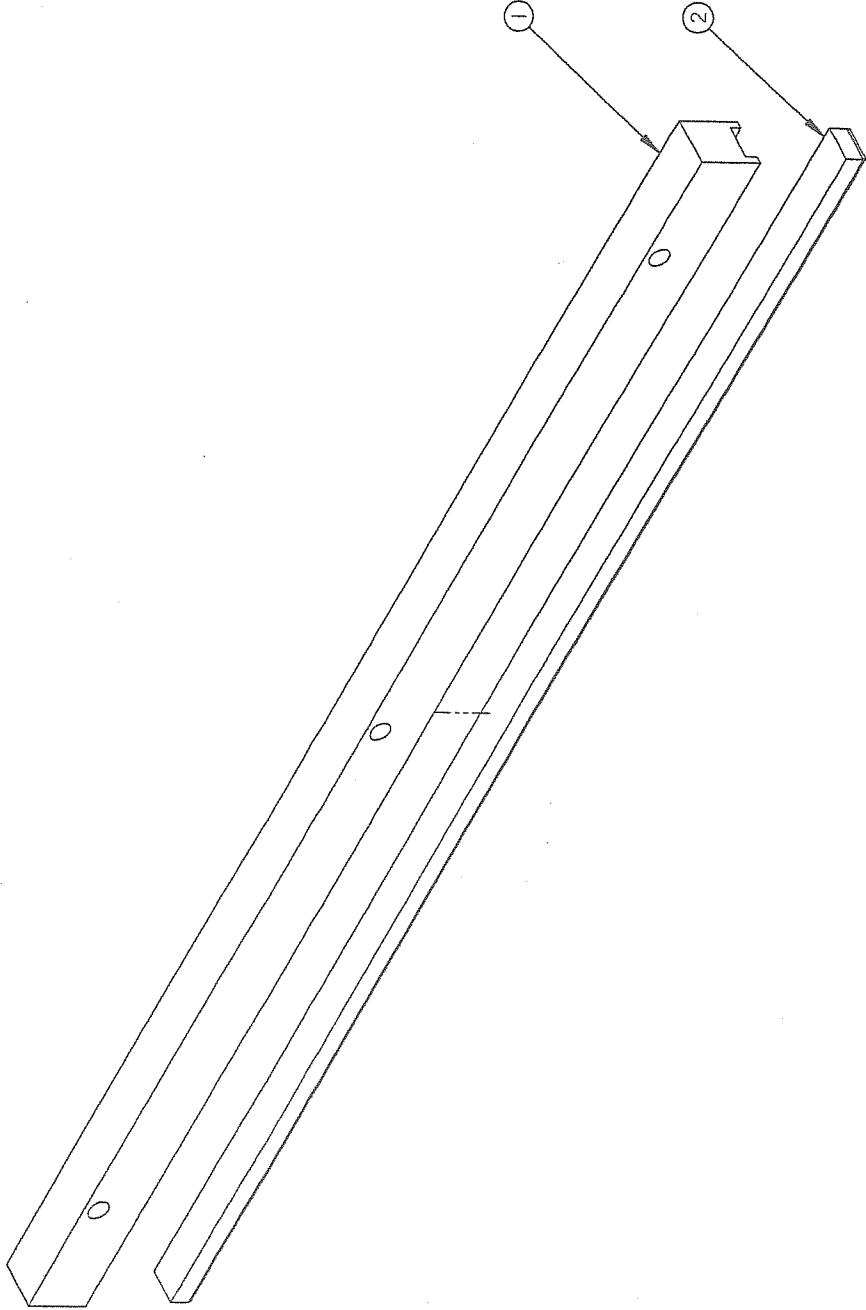
DESIGNED TO: MACHINIC: N.T.S.
 SURFACE: ±0.1
 TOLERANCE: ±0.5
 SOLIDAGE: ±0.5
 N.T.S.

SIPROMAC
 ST-GERMAIN DE GRANTHAM
 QUEBEC CANADA

A REDESSINE VOIR AUSSI 004A2557 & 004A2558 08-04-30 J.G.
 L.E.T. MODIFICATION DATE INT.

004A2557

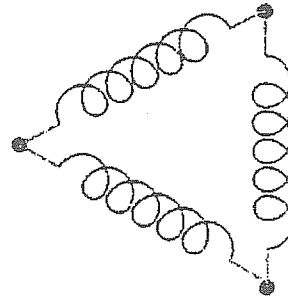
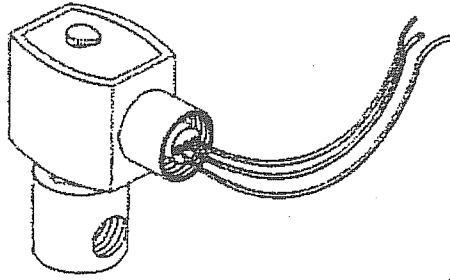
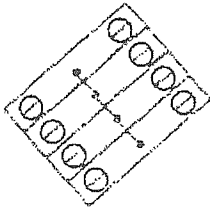
ITEM	PART #	DESCRIPTION	QT.
1	002A2061	UPPER SEAL BAR SUPPORT (E.C.O.)	1
2	004A2558	SHRINKABLE BAG TEFLON PRE-ASSY	1



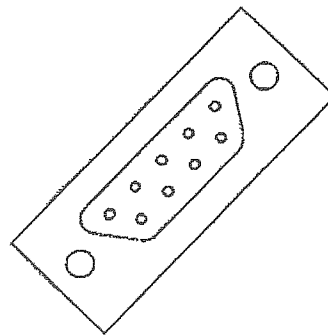
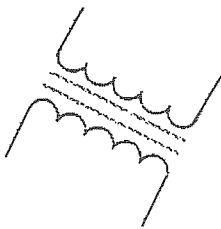
-SHRINKABLE BAG CUT OPTION-

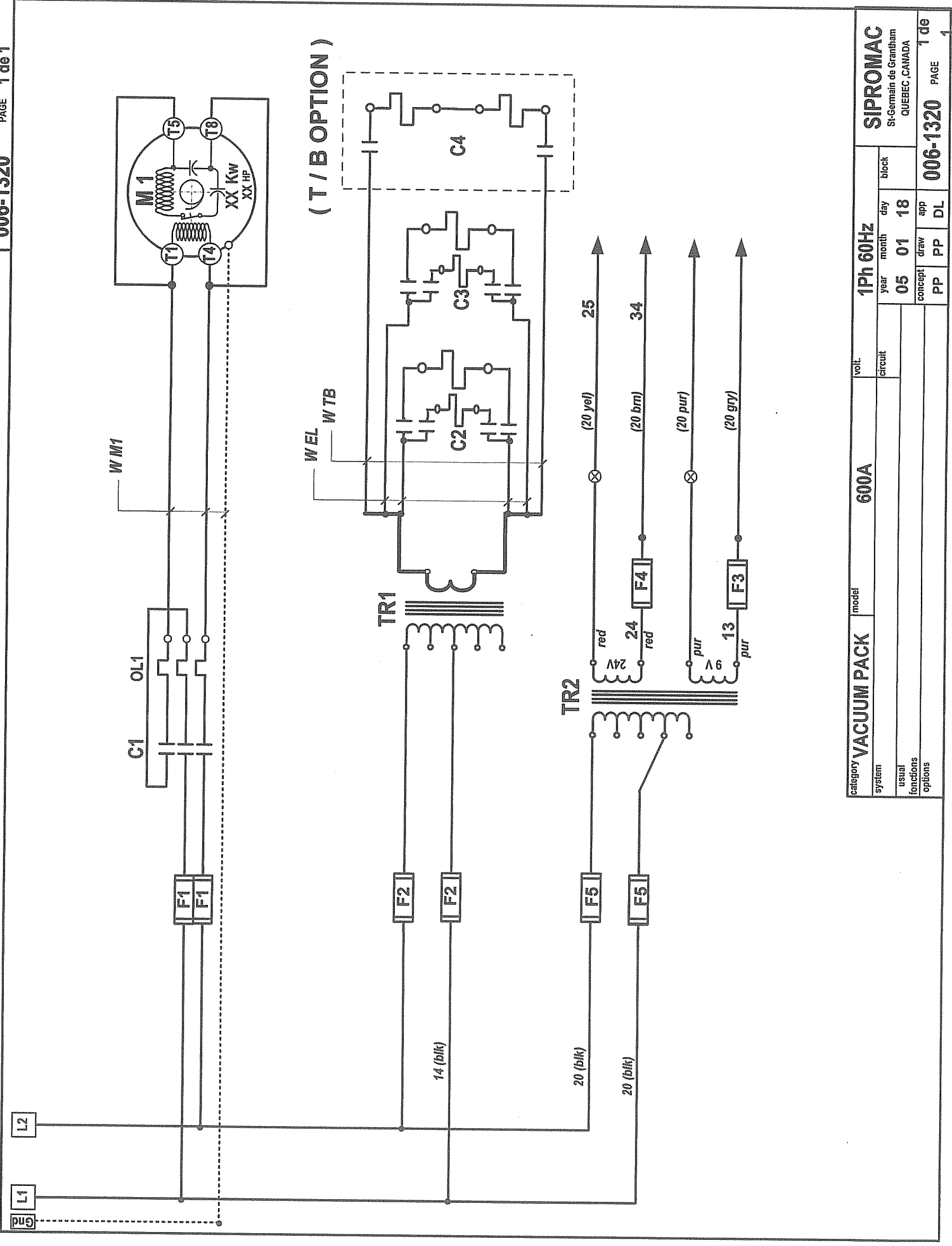
MACHINE	600A	DEPT.	M-H	QTY.	2
PART	UPPER SEAL BAR ASSY (SHRINKABLE)	DATE	08-04-30	NO.	004A2557
ITEM		DATE	08-04-30	NO.	004A2557
DEPT. LOI METRIC INCH USRAGE ± 0.1 2 0.004 SUDAGE ± 0.5 1 0.002 SUDAGE ± 0.5 1 0.002		N.T.S. DEPT.		ST-GERMAIN DE GRANTHAM QUEBEC CANADA	
APP. BY	J.G.	DATE	08-04-30	NO.	004A2557
MAT.		DATE	08-04-30	NO.	004A2557

LET.	A	DATE	08-04-30	INT.	J.G.
MODIFICATION					

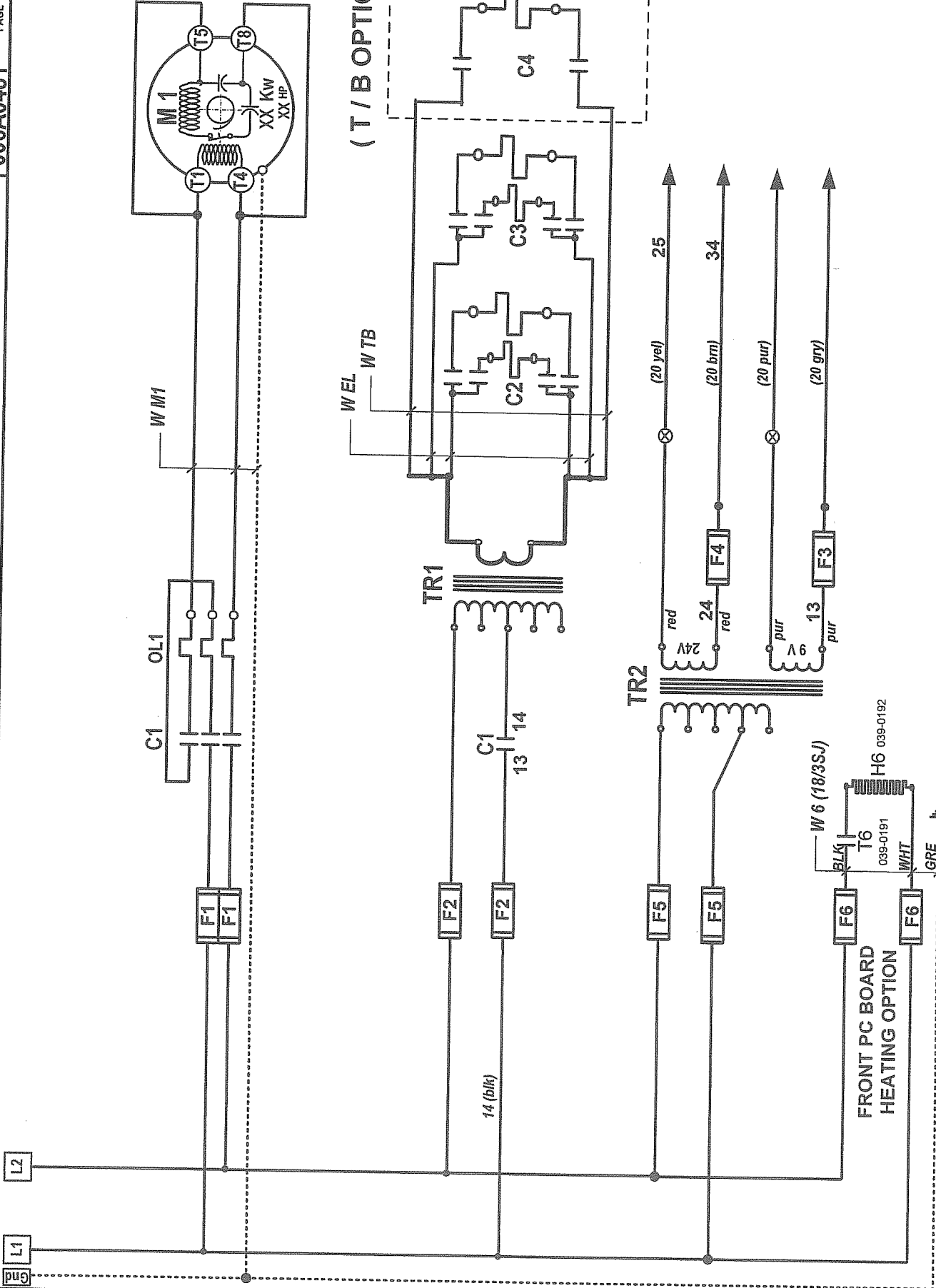


ELECTRICAL DRAWING





category	VACUUM PACK	model	600A	volL	1Ph 60Hz
system				circuit	
usual functions				year	05 01 18
options				month	day
				concept	draw
				PP	PP
				DL	DL
				006-1320	PAGE 1 de 1
				SIPROMAC	1
				St-Germain de Grantham	
				QUEBEC, CANADA	



category VACUUM PACK model

system

usual functions options

year month day

10 07 15

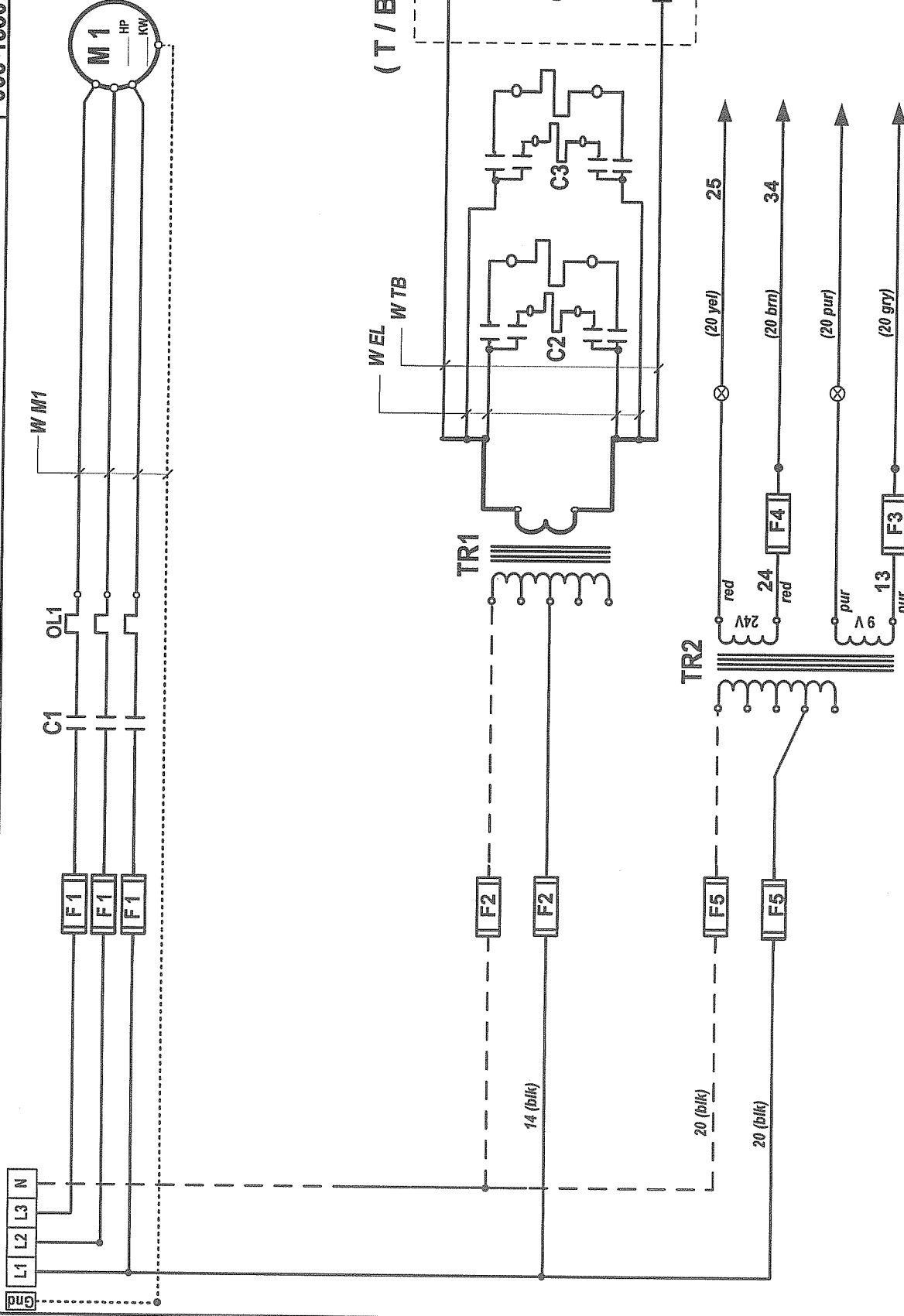
concept draw app

XX XX XX

SIPROMAC

St-Germain de Grantham
QUEBEC, CANADA

006A0481 PAGE 1 de 5

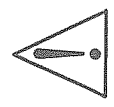
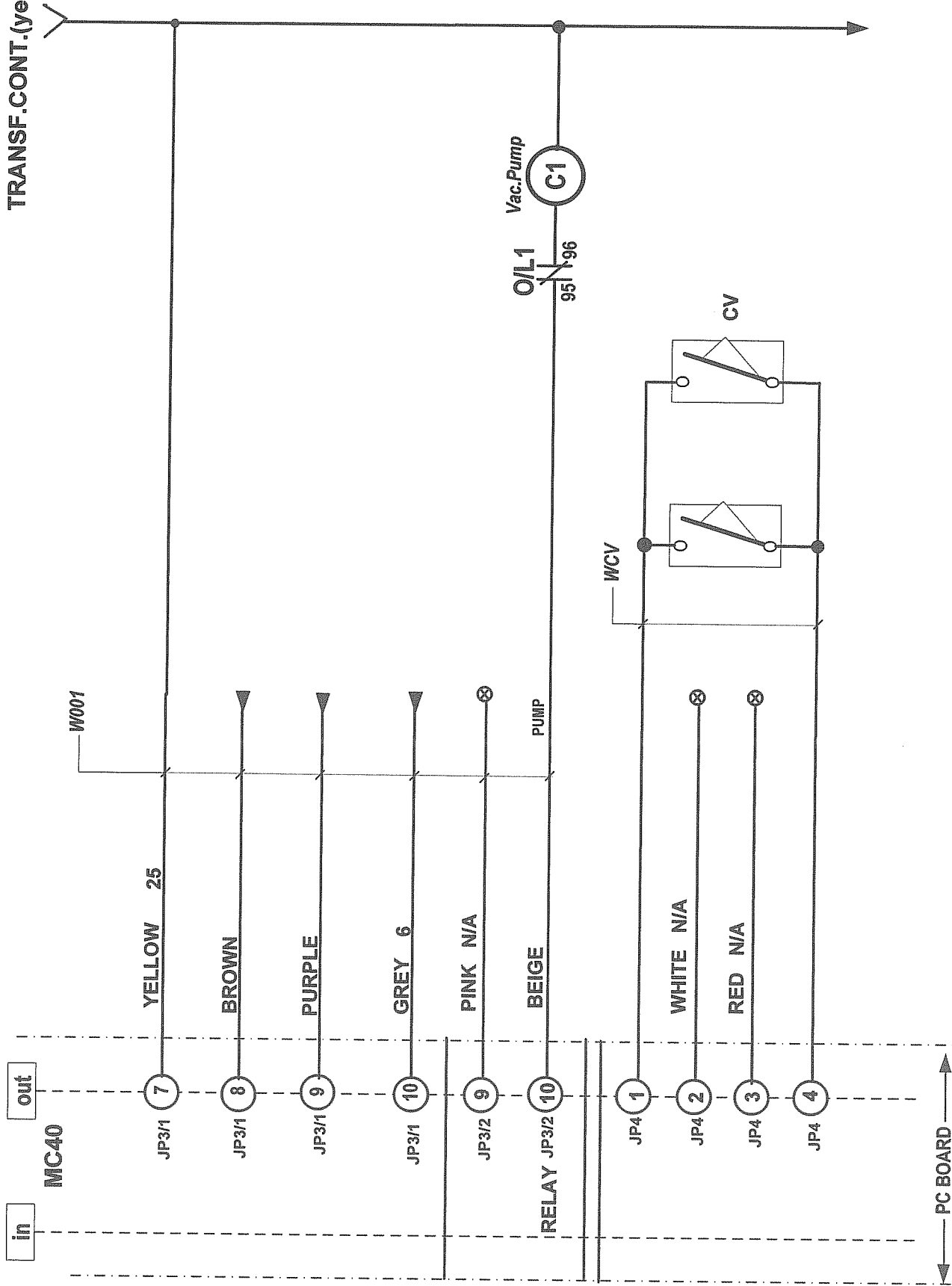


(T / B OPTION)

category	VACUUM PACK		model	600A		volt.	3Ph 60Hz	
system			circuit			year	month	day
usual			concept	PP	draw	05	01	18
fonctions			app	PP	DL			
options			block			006-1330		
						PAGE	1 de 1	

SIPROMAC
 St-Germain de Grantham
 QUEBEC -CANADA

TRANSF. CONT. (yel 25)

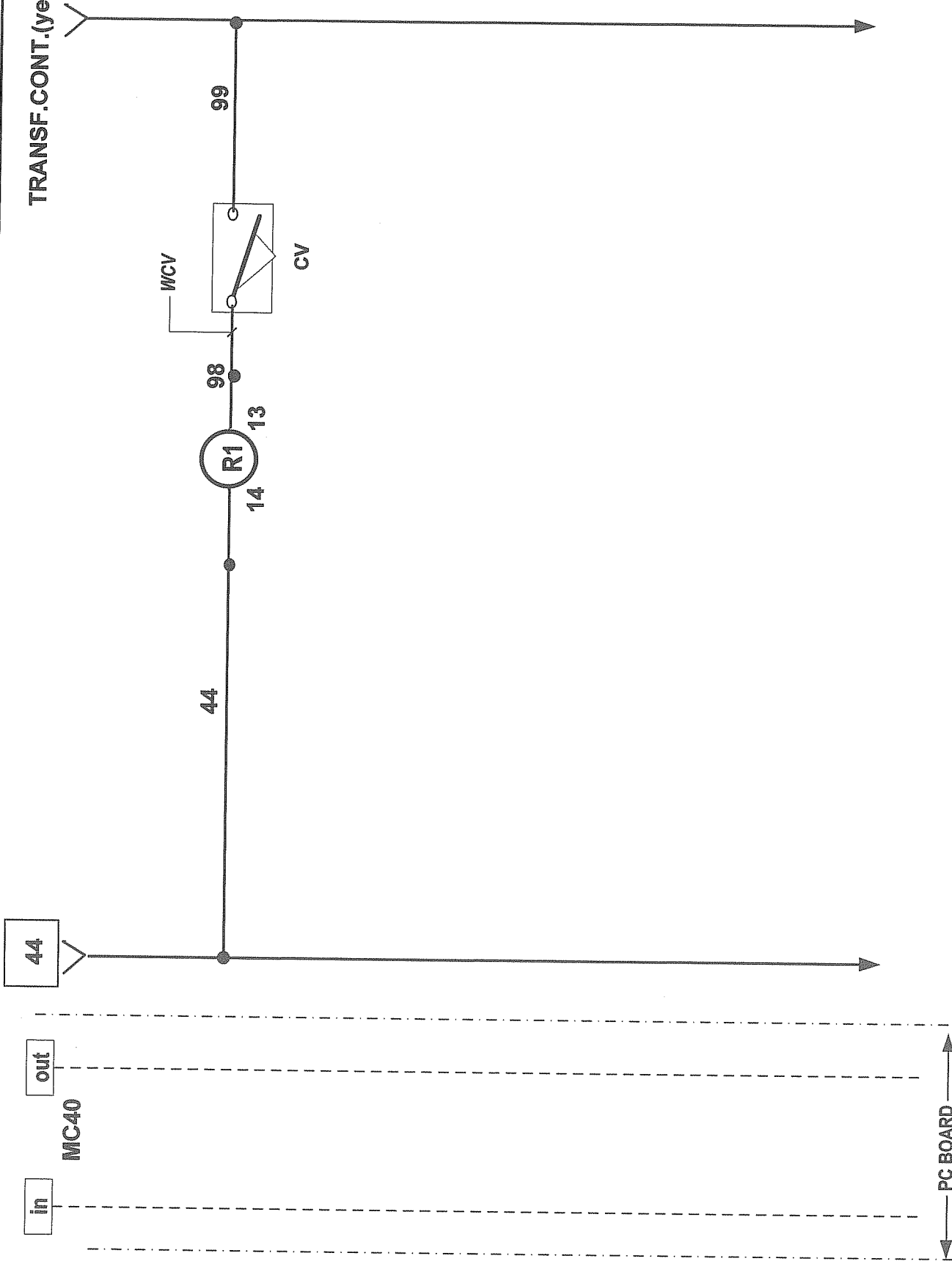


RC filters must be connected on each AC coil (not shown on diagram)

category	VACUUM PACK		model	600A	volt.	ALL	
system					circuit		
usual fonctions					year	month	day
options					10	06	09
					concept	draw	app
					PP	PP	DL
					006-1337		PAGE
					2 de		3

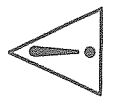
SIPROMAC
St-Germain de Grantham
QUEBEC, CANADA

TRANSF.CONT.(yel 25)



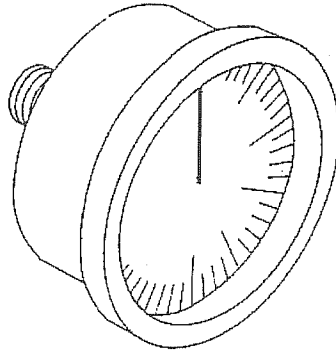
category	VACUUM PACK	model	600A	vol.	ALL
system				circuit	
usual				year	10 06 09
fonctions				month	06
options				day	09
				block	
				concept	PP
				draw	PP
				app	DL
				DL	DL
				006-1337	PAGE 3 de 3
				SIPROMAC	St-Germain de Grantham
				QUEBEC, CANADA	

RC filters must be connected on each AC coil (not shown on diagram)

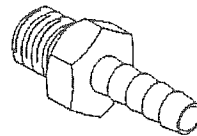
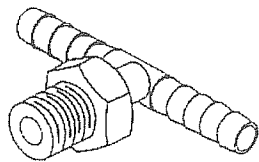


#	SIPRO	PART DESCRIPTION	PART APPLICATION	MACHINE VOLTAGE	MACHINE	REF.	OPT.	QTY
028-0022		TERMINAL BLOCK M10/10	SUPPLY	208V/3PH/60HZ	600A	L1-L2-L3		3
028-0025		GROUND TERMINAL BLOCK M16/12P	SUPPLY	208V/3PH/60HZ	600A	GND		1
028-0060		SEPARATOR M4/6	SUPPLY	208V/3PH/60HZ	600A	L1-L2-L3		3
028-0080		BAM END STOP (BUTEE D'ARRET)	SUPPLY	ALL	600A			1
028-0105		GROUND BARRIER (6 HOLES)	SUPPLY	ALL	600A	GND		1
034-0700		FUSE HOLDER 30A/600V GOULD	VACUUM	208V/3PH/60HZ	600A	F1		3
034-0500		FUSE MIDGET 15A/250V TIME-DELAY	VACUUM RA-0040	208V/3PH/60HZ	600A	F1	A1	3
025-0030		MOTOR CONTACTOR 2HP IN 208V/3PH-CSA,UL	VACUUM RA-0040	208V/3PH/60HZ	600A	C1	A1	1
025-0160		THERMAL OVERLOAD 5.5 TO 8A-CSA,UL	VACUUM RA-0040	208V/3PH/60HZ	600A	O/L1	A1	1
030-0180		CAB TIRE	VACUUM RA-0040	208V/3PH/60HZ	600A	WM1	A1	2M.
125-0030		BUSCH RA-0040 230-460V/3PH/60HZ 2HP 6.2A	VACUUM RA-0040	208V/3PH/60HZ	600A	M1	A1	1
034-0530		FUSE MIDGET 20A/250V TIME-DELAY	VACUUM RA-0063	208V/3PH/60HZ	600A	F1	A2	3
025-0025		MOTOR CONTACTOR 3HP IN 208V/3PH-CSA,UL	VACUUM RA-0063	208V/3PH/60HZ	600A	C1	A2	1
025-0170		THERMAL OVERLOAD 7 TO 10A-CSA,UL	VACUUM RA-0063	208V/3PH/60HZ	600A	O/L1	A2	1
030-0180		CAB TIRE	VACUUM RA-0063	208V/3PH/60HZ	600A	WM1	A2	2M.
125-0040		BUSCH RA-0063 230-460V/3PH/60HZ 3HP 8.4A	VACUUM RA-0063	208V/3PH/60HZ	600A	M1	A2	1
034-0550		FUSE MIDGET 25A/250V TIME-DELAY	VACUUM RA-0100	208V/3PH/60HZ	600A	F1	A3	3
025-0030		MOTOR CONTACTOR 5HP IN 208V/3PH-CSA,UL	VACUUM RA-0100	208V/3PH/60HZ	600A	C1	A3	1
025-0190		THERMAL OVERLOAD 12 TO 18A-CSA,UL	VACUUM RA-0100	208V/3PH/60HZ	600A	O/L1	A3	1
030-0140		CAB TIRE	VACUUM RA-0100	208V/3PH/60HZ	600A	WM1	A3	2M.
125-0060		BUSCH RA-0100 230-460V/3PH/60HZ 5HP 13.6A	VACUUM RA-0100	208V/3PH/60HZ	600A	M1	A3	1
034-0700		FUSE HOLDER 30A/600V GOULD	SEALING	208V/3PH/60HZ	600A	F2		2
034-0450		FUSE MIDGET 7A/250V TIME-DELAY	SEALING TWIN SEAL	208V/3PH/60HZ	600A	F2	B1	2
029-0040		TRANSFO 500VA/208-240/24V 60HZ	SEALING TWIN SEAL	208V/3PH/60HZ	600A	TR1	B1	1
027-0220		TERMINAL ROUND STUD #10 600V 75°C	SEALING	ALL	600A			4
025-0020		CONTACTOR ITH=25A-CSA,UL	SEALING	ALL	600A	C2+C3		2
030-0410		TEW #10/104 BLACK	SEALING	ALL	600A	WEL		12M.
027-0210		TERMINAL FEMALE .250" INSULATED 600V 75°C	SEALING	ALL	600A	WEL		8
005A0568		SEAL BAR ASSY W/SUPPORT	SEALING TWIN SEAL	ALL	600A		B1	4
034-0470		FUSE MIDGET 10A/250V TIME-DELAY	SEALING BAG CUT	208V/3PH/60HZ	600A	F1	B2	2
029-0062		TRANSFO 750VA 208-240V/30V/60HZ	SEALING BAG CUT	208V/3PH/60HZ	600A	TR1	B2	1
005B0569		SEAL BAR ASSY W/SUPPORT	SEALING BAG CUT	ALL	600A		B2	4
034-0500		FUSE MIDGET 15A/250V TIME-DELAY	SEALING TOP & BOTTOM	208V/3PH/60HZ	600A	F1	B3	2
029-0079		TRANSFO 1000VA 208-240/24V 60H	SEALING TOP & BOTTOM	208V/3PH/60HZ	600A	TR1	B3	1
027-0220		TERMINAL ROUND STUD #10 600V 75°C	SEALING TOP & BOTTOM	ALL	600A		B3	2
025-0020		CONTACTOR ITH=25A-CSA,UL	SEALING TOP & BOTTOM	ALL	600A	C4	B3	1
030-0120		CAB TIRE	SEALING TOP & BOTTOM	ALL	600A	WTB	B3	3M.
027-0065		TERMINAL FLAG FEMALE YELLOW .250"	SEALING TOP & BOTTOM	ALL	600A	WTB	B3	4
005A0570		SEAL BAR ASSY W/SUPPORT	SEALING TOP & BOTTOM	ALL	600A		B3	4
005A0386		UPPER SEAL BAR ASSY W/SUPPORT	SEALING TOP & BOTTOM	ALL	600A		B3	2
034-0740		FUSE HOLDER M4/6SF	CONTROL TRANSFO	208V/3PH/60HZ	600A	F5		2

# SIPRO	PART DESCRIPTION	PART APPLICATION	MACHINE VOLTAGE	MACHINE	REF.	OPT.	QTY
034-0200	FUSE 5X20MM 3/4A 250V T-DELAY	CONTROL TRANSFO	208V/3PH/60HZ	600A	F5		2
029-0009	TRANSFO 65VA/208-230V/24-9V	CONTROL TRANSFO	208V/3PH/60HZ	600A	TR2		1
034-0740	FUSE HOLDER M4/8SF	CONTROL 9VAC+24VAC	ALL	600A	F3+F4		2
034-0210	FUSE 5X20MM 2A/250V TIME DELAY	CONTROL 9VAC	ALL	600A	F3		1
034-0240	FUSE 5X20MM 4A/250V TIME DELAY	CONTROL 24VAC	ALL	600A	F4		1
030-0590	20AWG/12COND.PVC,UNSHIELD.300V	OUTPUT CONTROL	ALL	600A	W001		2.5M.
036-0740	12 CONTACTS CONNECTOR	OUTPUT CONTROL	ALL	600A	JP3/1-2		1
030-0631	22AWG/4COND.PVC,SHIELDED,300V.	INPUT CONTROL	ALL	600A	WCV1+WCV3		2.5M.
030-0610	PVC #22-2COND.300V CSA RED/BLK	INPUT CONTROL	ALL	600A	WCV2		0.5M.
036-0820	0.156" CENTERLINE CRIMP HOUSING	INPUT CONTROL	ALL	600A	JP4		1
036-0850	0.156" CENTERLINE CRIMP TERMINAL	INPUT CONTROL	ALL	600A	JP4		2
033-0038	MICROPROCESSOR MC-40 SENSOR VACUUM	CONTROL WITH SENSOR	ALL	600A	MC-40	C1	1
033-00385	MICROPROCESSOR MC-40 NO SENSOR VAC.	CONTROL W/O SENSOR	ALL	600A	MC-40	C2	1
033-0015	MEMBRANE MC-40 SIPROMAC	CONTROL SIPROMAC	ALL	600A		D1	1
033-0018	MEMBRANE MC-40 BERKEL	CONTROL BERKEL	ALL	600A		D2	1
106-0050	VALVE 2WAY 24V 1-1/4" NPT(B60) 60HZ	VACUUM	ALL	600A	E		1
106-0010	VALVE 2WAY 24V 1/4 NPT(G22) 60HZ	OPTION GAS	ALL	600A	H+I	E	2
106-0070	VALVE 3WAY 24V 1/4 NPT(G176)60HZ	BELLOWS	ALL	600A	G		1
106-0070	VALVE 3WAY 24V 1/4 NPT(G176)60HZ	OPTION AIR REGULATOR	ALL	600A	J	F	1
106-0030	VALVE 2WAY 24V 3/4 NPT(G95) 60HZ	ATMOSPHERE	ALL	600A	F		1
026-0610	LIMIT SWITCH LONG ROLLER 15A 280V	COVER POSITION	ALL	600A	CV1+CV2+CV3		3
025-0600	4PDT RELAY 24VAC (55.34-24VAC)	COVER POSITION	ALL	600A	R1		1
025-0610	4PDT RELAY SOCKET 24VAC	COVER POSITION	ALL	600A	R1		1
025-0611	RELAY SOCKET RETAINING CLIP	COVER POSITION	ALL	600A	R1		1



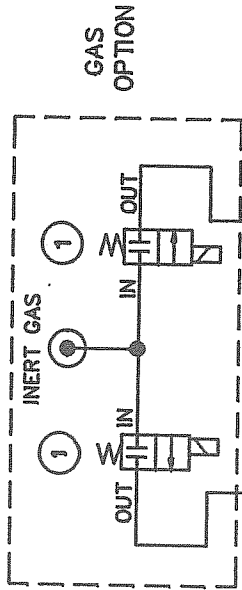
PNEUMATIC DRAWING



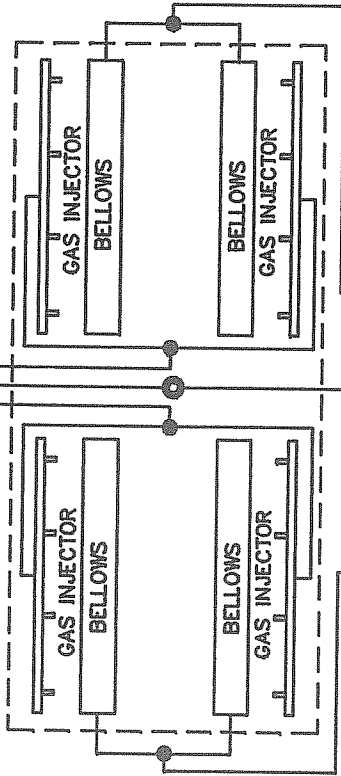
007-0019

ITEM	PART #	DESCRIPTION	QT.
1	106-0010	GAS VALVE	2*
2	114-0260	VACUUM GAUGE	1
3A	106-0070	BELLOWS VALVE	1
3B	106-0070	BELLOWS VALVE	1*
4	114-0147	PRESSURE REGULATOR	1*
5	114-0245	PRESSURE GAUGE	1*
6	114-0170	PRESSURE REGULATOR SUPPORT	1*
7	106-0030	ATMOSPHERE VALVE FOR 420A	
	106-0030	ATMOSPHERE VALVE FOR 600A, 063M ³ AND 100 M ³	
	106-0050	ATMOSPHERE VALVE FOR 600A & 620A; 160 M ³ AND 250 M ³	1
	106-0050	ATMOSPHERE VALVE FOR 650A & 700A	
8	106-0030	VACUUM VALVE FOR 420A	
	106-0050	VACUUM VALVE FOR 600A & 620A	
	106-0060	VACUUM VALVE FOR 650A & 700A	1

*: OPTION

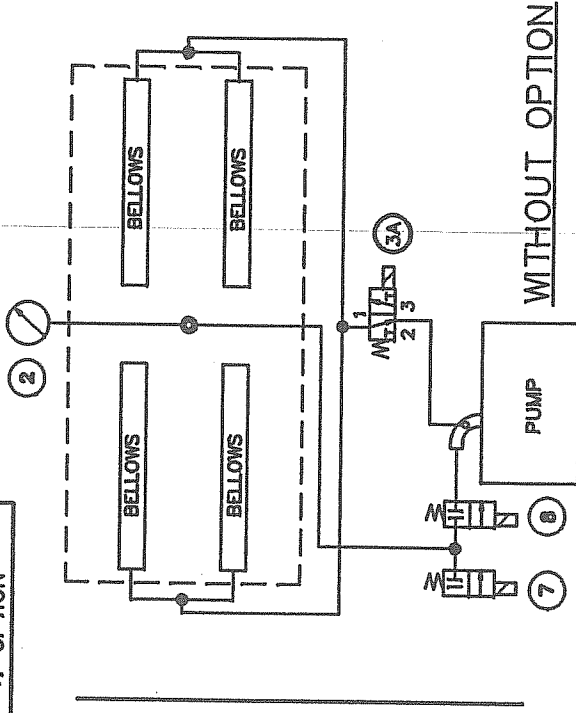


NOTE:
 -FOR GAS INJECTION
 KIT INSTALLATION
 SEE DRAWINGS #:
 420A: #010-0016
 600A: #010-0017
 620A: #010-0018
 650A: #010-0020



NOTE: SET TO A
 MAXIMUM OF 45 PSI

NOTE:
 -FOR AIR REGULATOR
 OPTION KIT INSTALLATION
 SEE DRAWINGS # 010-0019
 & 650A: #010-0027
 (FOR EXISTING MACHINES)



WITH OPTIONS

WITHOUT OPTION

MACHINE 420A, 600A, 620A & 650A		SIPROMAC	
PART PNEUMATIC		ST-GERMAIN DE GRANTHAM, QUEBEC CANADA	
ITEM:	CNC:	SCALE:	QT. 1
MAT:	DWG BY M.LAVIGNE	DATE 97-03-11	NO.
INT.	APP.	DATE	007-0019
A RE-DRAWN	MODIFICATION		
LET.			

MANUEL D'UTILISATEUR

MICROPROCESSEUR MC-40 AVEC OU SANS DÉTECTEUR DE VIDE

EMBALLEUSE SOUS VIDE

TABLE DES MATIÈRES

I INSTRUCTIONS POUR LES OPÉRATIONS

II MÉCANIQUE

- A- Vue de face
- B- Vue de l'arrière
- C- Procédure d'ajustement du couvert
- D- Schéma de l'assemblage de l'axe central
- E- Barres de scellage
(Double scellage)
- F- Dessin des barres de scellage
(Option du coupe sac électrique)
- G- Dessins des barres d'assemblage
(Scellage du haut et du bas en option)
- H- Gas injection kit installation drawing
(gaz injection option)

III ELECTRIQUE

- A- Schéma électrique (Bas voltage)
- B- Schéma électrique (Haut voltage à une phase)
- C- Schéma électrique (Haut voltage à 3 phases)
- D- Schéma électrique (Haut voltage 1 phase 50 Hz)
- E- Schéma électrique (Haut voltage 3 phase 50 Hz)

IV PNEUMATQUE

- A- Schéma Pneumatique

EMBALLEUSES SOUS VIDE INSTRUCTIONS D'OPÉRATIONS

TABLE DES MATIÈRES

1. Mise en marche de la machine
2. Connexion Électrique
3. Opération
 - 3.1 Principes de travail
 - 3.2 Emballage Spécial
 - 3.2.1 Injection de Gaz
 - 3.2.2 Scellage haut et bas
(bi-active sealing)
 - 3.2.3 Coupe sac électrique
 - 3.3 Ajustement des contrôles digital
 - 3.4 Nettoyage Quotidien
4. Trouble de lancement
 - 4.1 Échec durant le cycle d'emballage
 - 4.2 Vide insuffisant
 - 4.2.1 Fuites dans le sac
 - 4.2.2 Pas de fuite dans le sac
 - 4.2.3 Vide insuffisant dans la chambre
 - 4.3 Scellage Inadéquat
 - 4.3.1 Scellage insuffisant
 - 4.3.2 Pas de scellage
 - 4.3.3 Courant ininterrompu sur les barres de scellage
 - 4.3.4 Le scellage ne tient pas
 - 4.4 Problème avec les valves
 - 4.5 Problème du panneau de contrôle
5. Maintenance Régulière

SIPROMAC INC.

EMBALLEUSES SOUS VIDE

1. MISE EN PLACE DE LA MACHINE:

Avant de choisir le site d'installation de votre machine, veuillez considérer que vous aurez besoin d'espace pour les produits emballés et non-emballés à part de l'espace occupé par la machine elle-même.

Bien vouloir vous rappelez que vous aurez besoin d'un sol bien au niveau pour votre installation. Spécialement avec les modèles mobiles, le poids de la pompe peut gauchir la machine et le couvercle ne fermera plus correctement.

Avant de commencer à travailler, vérifier l'huile de la pompe pour voir si elle est en quantité suffisante. Bien vouloir ne jamais utiliser une huile autre que celle recommandée par le fabricant. Ne pas excéder la quantité indiquée quand vous ajoutez ou faites le changement d'huile et faites votre vérification hebdomadairement.

En raison de la viscosité de l'huile, la machine sera plus difficile à démarrer à basses températures. Ainsi donc la pompe doit être placée dans un endroit où la température est d'au moins 50°F (+10°C). D'autre part, l'air doit circuler librement aux alentours de la pompe pour permettre le refroidissement dans les cas où la température des opérations atteindrait 160°F (70°C) ou la température maximale permise.

2. CONNEXION ÉLECTRIQUE:

Les connexions électriques doivent se faire par du personnel qualifié. La personne désignée doit s'assurer que les entrées électriques correspondent au voltage et à l'ampérage approprié de la machine.

Un schéma électrique accompagne chacune de nos machines.

Une étape importante dans le branchement de la machine est de s'assurer que le moteur de la pompe tourne dans une rotation appropriée.

Attention: Le moteur de la pompe ne devrait pas tourner plus de 3 ou 4 secondes dans une mauvaise rotation car il en résultera des dommages sérieux. La rotation est indiquée par une flèche sur le moteur de la pompe.

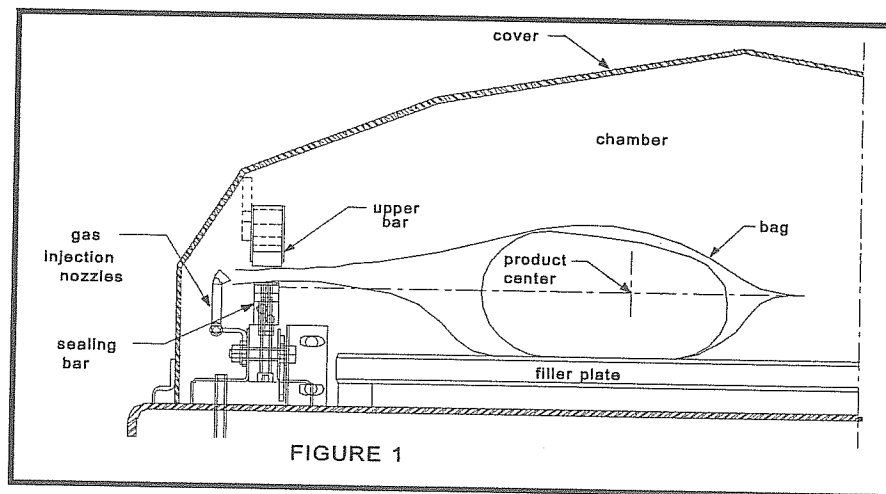
3. OPÉRATION:

3.1 Principes de travail:

Un emballage sous vide est un cycle composé de 3 étapes. Premièrement le vide est fait et l'air est complètement enlevé de la chambre et du sac contenant le produit. (Voir figure 1). Ensuite c'est possible d'injecter du gaz neutre par les conduits si le produit est très délicat. Finalement, un mécanisme pousse la barre de scellage sur le support de caoutchouc pour sceller le sac

Pour obtenir de beaux emballages, les produits et les sacs doivent être de taille proportionnelles. L'ouverture du sac ne devrait jamais excéder 2" (50cm) au delà des barres de scellage. Le produit doit être centré en hauteur par rapport aux barres de scellage en ajustant les écarteurs qui vous sont fournis.

Pour obtenir un bon scellage, assurez-vous qu'il n'y a pas de résidu de graisse qui reste entre les côtés intérieurs des sacs où le scellage doit être fait.



3.2 Emballage Spécial:

3.2.1 Injection de Gaz (option):

Il y a une pression atmosphérique de 14 lbs / pouce carré (= 1 kg / cm carré) sur les produits quand le vide demandé est atteint. Les produits qui peuvent être endommagés par une haute pression doivent être emballés avec un vide partiel et la pression doit être contrebalancée en injectant du gaz dans le sac (nitrogène ou dioxyde de carbone) avant le scellement et après avoir atteint le vide.

Pour l'injection de gaz, les sacs sont placés sur les barres de scellage, l'ouverture placée au dessus des conduits de gaz qui sont montés le long des barres de scellage. Après que le vide soit atteint, la valve du vide se ferme et la valve du gaz s'ouvre. Le pourcentage de gaz peut être ajusté par le menu du programme.

Le réservoir de gaz et la valve de pression qui est rattachée au réservoir ne sont pas fournis par Sipromac. La pression pour le régulateur de gaz devrait être ajustée approximativement à 5 lbs/pouce carré (1/3 Kg/cm carré). Chaque machine a un adaptateur pour la connexion de gaz quand l'option de l'injection de gaz est commandée.

3.2.2 Scellage Haut et Bas (optionnel):

Pour le scellage des sacs en aluminium comme pour le café il est impératif d'avoir une barre de scellage en haut et en bas.

3.2.3 Coupe sac électrique: (optionnel):

Cette option est utilisée pour obtenir un paquet dont l'excédent de film au niveau du scellage doit être coupée très près de la ligne de scellage. (cette option ne peut pas être utilisée avec le scellage Haut et Bas)

3.3 Les opérations de l'emballage sous vide:

Note: Reportez-vous aux menus structure de la page 8 et aux détails du panneau de contrôle sur la page 9

3.3.1 Bases:

Utilisez la touche "POWER" pour initier le bouton ON/OFF sur votre machine sous vide. Quand votre unité sera en fonction le dernier programme exécuté apparaîtra sur l'écran à cristaux liquides.

Utilisez la touche "ESC" pour passer du menu programme au menu fonctions et du menu des fonctions au menu des programmes.

Dans le menu des fonctions, utilisez la touche "SELECT" pour sélectionner une fonction et la touche "ENTER" pour exécuter la sélection.

Dans le menu des programmes, utilisez la touche "SELECT" pour sélectionner un programme et la touche "Enter" pour accéder ou modifier la sélection.

Dans les programmes du sous menu, utilisez la touche "ENTER" pour voir défiler les paramètres et lorsque ces derniers clignotent pour indiquer ils sont dans le mode d'acquisition. Quand la séquence de tous les paramètres se sont affichés, on revient automatiquement au début de la liste.

Dans les programmes du sous menu, utilisez la touche "ESC" pour revenir au menu des programmes. Pressez n'importe quelle touche pour effacer les messages d'erreur qui peuvent s'afficher sur l'écran à cristaux liquide.

3.3.2 Menu des fonctions:

3.3.2.1 Créer un programme:

Quand vous exécutez la fonction "create a program", le programme sous menu est atteint en commençant par l'identification. L'identification initiale "PxxNO NAME" est donné au programme et tous les paramètres sont établis à zéro; le numéro du programme est alloué automatiquement.

3.3.2.2 Supprimer un programme:

En exécutant la fonction de "delete a program", vous avez accès au menu des programmes et le numéro du premier programme en mémoire clignote pour indiquer le mode de suppression. Utilisez la touche "SELECT" pour sélectionner un programme et la touche "ENTER" pour avoir accès et confirmer la suppression de la fonction. Utilisez la touche "ESC" pour annuler une suppression et quitter la fonction. Quand vous quittez la fonction, le nombre des programmes actuels sur l'écran à cristaux liquides cesse de clignoter.

3.3.2.3 Choisir le mode d'opération:

Quand vous exécutez la fonction "Select Operating Mode", laquelle est disponible seulement pour les unités automatiques, la sélection en cours clignote pour vous indiquez le mode. Utilisez la touche "SELECT" pour parcourir les modes d'opération, lesquels sont automatiques, semi-automatiques et manuels.

Le mode d'opération sera validé et exécuté automatiquement. Utilisez la touche "ESC" ou "ENTER" pour quitter la fonction et retourner au menu des programmes.

3.3.3 Menu des Programmes:

3.3.3.1 Identification des Programmes:

Pour un programme sélectionné, choisissez l'identification en utilisant le panneau de contrôle numérique avec la chartre des caractères et pressez sur la touche numérique jusqu'à ce que le caractère soit sélectionné (4 x pour la valeur numérique). Utilisez la touche "ENTER" pour valider le caractère ainsi que la chaîne de caractères jusqu'à la fin (la nouvelle chaîne de caractères clignote). Vous pouvez utiliser la touche "ESC" pour revenir en arrière dans le cas où vous vous êtes trompé et que vous voulez effacer le caractère.

Exemple: EXAMPLE 1 → (9 caractères)

Touche 2, 2, ENTER	→ E
Touche 8, 8, 8, ENTER	→ X
Touche 1, ENTER	→ A
Touche 5, ENTER	→ M
Touche 6, ENTER	→ P
Touche 4, 4, 4, ENTER	→ L
Touche 2, 2, ENTER	→ E
Touche 9, 9, 9, ENTER	→ espace
Touche 1, 1, 1, 1, ENTER	→ 1

Touche ENTER pour valider la chaîne de caractères

3.3.3.2 L'ajustement du niveau de Vide (capteur de vide désactivé):

Pour un programme sélectionné, ajustez le niveau de vide, en secondes; la validation est automatiquement exécutée après la deuxième entrée digitale (Le nouveau temps de vide clignote). En cours de traitement, utilisez la touche "ENTER" pour valider la valeur du niveau de vide et la touche "ESC" pour revenir en arrière et changer la valeur du niveau de vide (La valeur du niveau de vide la plus ancienne clignotera à ce moment).

Exemples: 1 sec. → Touches 0, 1 ou 1, ENTER
15 sec. → Touches 1, 5

3.3.3.3 L'ajustement du niveau de Vide (capteur de vide en activé):

Pour un programme sélectionné, ajustez le niveau de vide avec les valeurs; le point décimal est automatiquement inséré suivant la deuxième entrée digitale et la validation est automatiquement exécutée après la troisième entrée digitale (La nouvelle valeur du niveau du vide clignote). Le niveau de vide est arrondi à la demie la plus près de la valeur. En cours de traitement, utilisez la touche "ENTER" pour valider la valeur du niveau de vide et la touche "ESC" pour revenir en arrière et changer la valeur du niveau de vide (La valeur du niveau de vide la plus ancienne clignotera à ce moment). Ajustez le niveau du vide à zéro pour pouvoir contourner le capteur de vide et procédez en réglant seulement le " Temps de vide Plus" (Vacuum plus time).

Exemples: 90.0% → Touches 9, 0, 0 ou 9, 0, ENTER ou
Touches 9, 0, 1 ou 9, 0, 2 or 9, 0, 3 ou 9, 0, 4
97.5% → Touches 9, 7, 5 ou
Touches 9, 7, 6 ou 9, 0, 7 or 9, 0, 8 ou 9, 0, 9
0.0% → Touches 0, 0, 0 ou 0, ENTER

3.3.3.4 Ajustement du Temps de Vide "Plus" (capteur de vide activé):

Pour un programme sélectionné, réglez le "temps de vide plus" en secondes; la validation est automatiquement exécutée après la deuxième entrée digitale (La nouvelle valeur du "temps de vide plus" clignotera à ce moment). En cours de traitement, utilisez la touche "ENTER" pour valider la nouvelle valeur du "temps de vide plus" et la touche "ESC" pour revenir et recommencer avec de nouvelles valeurs (la valeur la plus ancienne du "temps de vacuum plus" clignotera).

Exemples: 1s → Touche 0, 1 or 1, ENTER
15s → Touche 1, 5

3.3.3.5 Ajustement de l'injection de gaz (capteur de vide désactivé):

Pour sélectionner un programme placer le niveau d'injection de gaz en suivant la même procédure que pour le niveau de vide. Gardez en mémoire que plus le temps d'injection de gaz est haut, moins la pression du sellage sera forte. Un certain niveau de vide doit être maintenu pour un bon fonctionnement.

3.3.3.6 Ajustement de l'injection de gaz (capteur de vide activé):

Pour sélectionner un programme placer le niveau d'injection de gaz en suivant la même procédure que pour le niveau de vide; L'ajustement pour le gaz le plus haut devrait être de 10% au-dessous du niveau de l'ajustement de vide.

3.3.3.7 Ajustement du cachetage:

Pour sélectionner un programme le temps de cachetage, en commençant par les secondes; le point décimale est automatiquement insérée après la première entrée de chiffre et la validation est automatiquement effectuée après la troisième entrée de chiffre (le nouveau temps de cachetage clignote). Le temps de cachetage est arrondi à la moitié la plus proche du cent. À un milieu l'entrée des données, utiliser la clé "ENTER" pour valider l'heure du cachetage et la clé " ESC " pour revenir en arrière et reprogrammer le temps cachetage avec de nouvelles données (le vieux temps de cachetage clignote).

Exemples: 4.50s → clés 4, 5, 0 or 4, 5, ENTER or
clés 4, 5, 1 or 4, 5, 2 or 4, 5, 3 or 4, 5, 4
2.35s → clés 2, 3, 5 or
clés 2, 3, 6 or 2, 3, 7 or 2, 3, 8 or 2, 3, 9
0.00s → clés 0, 0, 0 or 0, ENTER

3.3.4 Exécution de cycle de vide :

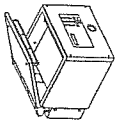
Pour les unités manuels ainsi que les unités automatiques faire la mise en marche manuelle, fermer le couvercle afin de lancer un cycle de vide. Pour l'unité automatique faire mise en marche semi-automatique ou automatique, utilisez le bouton "ARRÊT / DÉBUT" pour lancer ou interrompre un cycle de vide. Le programme sélectionné peut être lancé seulement dans le programme du menu, au moment où aucune modification n'est nécessaire, et l'accès des autres programmes et des fonctions ne sont pas requis. Pendant l'exécution du cycle le statut d'opération est séquentiellement affiché sur l'écran à cristaux liquides, excepté pour les paramètres établis à zéro, qui ne sont pas montrés:

- niveau de vide de la chambre pendant la séquence,
- vide additionné du temps pendant le vide plus la séquence,
- niveau de vide de la chambre pendant la séquence d'injection de gaz,
- statut de temps de cachetage pendant la séquence de cachetage,
- niveau de vide de la chambre pendant La séquence d'atmosphère .7

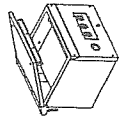
Pendant l'exécution du cycle, utilisé la clef "1" pour interrompre la séquence de vide et pour exécuter la séquence suivante, soit l'injection du gaz ou le cachetage, suivi de la clé "ENTER" afin d'accéder et modifier le programme; les paramètres deviennent valides seulement pour les cycles suivants de vide.

3.3.5 System monitor:

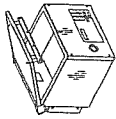
Pour accéder le menu des diagnostics, monter la puissance de la machine d'emballage sous vide tout en maintenant le bouton "ESC" enfoncé. Utilisez la clé "SELECT" pour choisir la fonction du système du moniteur et "ENTER" pour accéder et visualiser les paramètres surveillés. Employez la clé "SELECT" pour changer la révision de logiciel, la quantité d'heures de travail faites et de la quantité de cycles complets exécutés depuis la première initialisation.



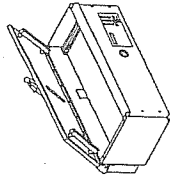
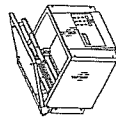
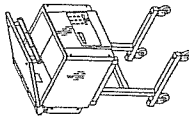
250



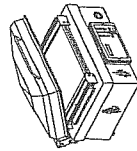
300



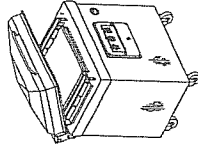
350/350D



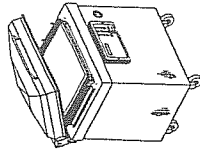
380A



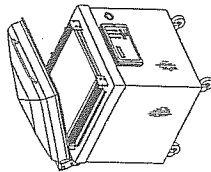
450T



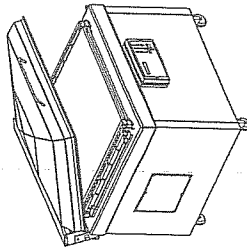
400A



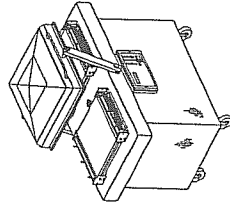
450A



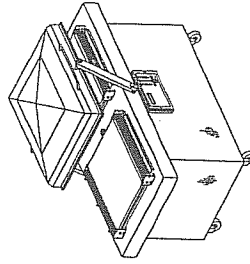
550A



580A

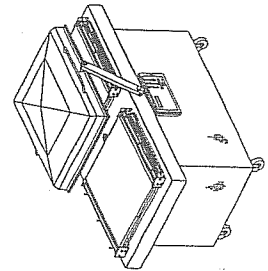


420A

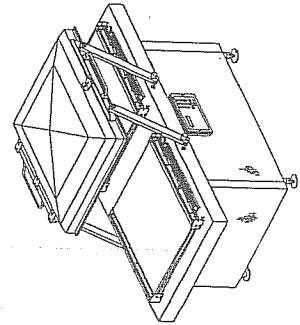


600A

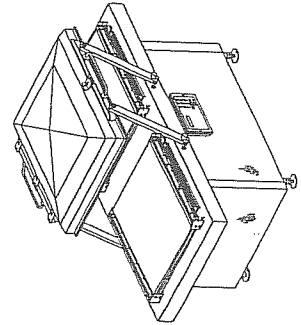
VACUUM PACKAGING MACHINES



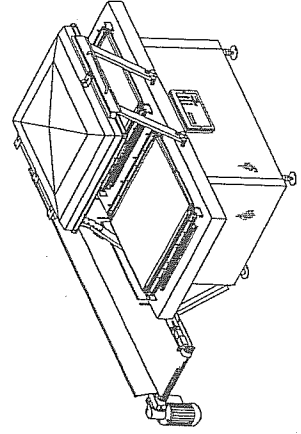
620A



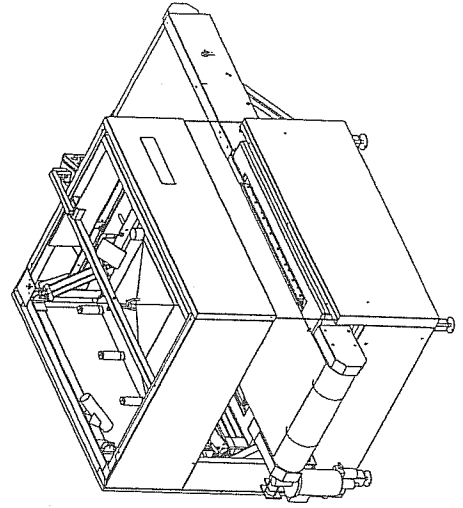
650A



680A



700A



750A