



## JointMaster Pro2 G3i Digital



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The SealBoss® JointMaster Pro2 G3i Digital machine is for professional use. Please contact a SealBoss® representative for detailed information and to confirm that your product is suitable for use with this machine. Specific product data sheet and SDS of product to be intended for use will help you to determine the suitability. Please refer to the JointMaster Pro2 G3i Digital Manual for more information. Due to the nature of a dispensing machine like the SealBoss® JointMaster Pro2 G3i Digital, user shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any materials supplied or distributed by SealBoss® Corp. relieves the user of the obligation to read and follow the warnings and instruction for each SealBoss® Corp. product as set forth in the current Technical Data Sheet, product label and Material Safety Data Sheet prior to product use. SealBoss® Corp. warrants its products to be free of manufacturing defects. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of the manufacturer which proves to be defective. There are no other warranties by SealBoss® Corp. of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. SealBoss® Corp. does not take back or restock any used equipment. SealBoss® Corp. does not apply credit for used equipment.



**SealBoss® JointMaster Pro2 G3i Digital Machines are custom equipped. Models may vary.**

**SealBoss® JointMaster Pro2 G3i Digital**



### SAFETY FIRST

**WARNING:**  
**MECHANICAL HAZARDS**  
**ELECTRIC SHOCK &**  
**DEATH HAZARD**  
**CHEMICAL HAZARDS**



- This equipment is for professional use and trained adult personnel only.
- This equipment is NOT to be used by untrained persons. This equipment is NOT for non professional consumer use.
- Become completely familiar with the pump before operation.
- Read all safety recommendations on the Safety and Technical Data Sheets of the material you will be pumping. Follow all recommendations.
- Wear appropriate safety and protective clothing and equipment including gloves and safety goggles, full face shield during operation and while handling chemicals.
- Only operate machine in areas of sufficient ventilation.
- Do NOT operate with loose wires or hoses.
- Do NOT operate in wet or combustible environments.
- Do NOT operate pump with gear box panels or electronics box panels removed.
- Do NOT operate while under the influence of drugs, alcohol or medication.
- Keep hands and clothing free from all moving chains, gears and moving parts while operating the equipment.
- Be sure to strap the pump securely and use the wheel brakes before transporting.
- Always use the same tanks (A or B) for the same material to minimize risk of material hardening inside of the tank, pump, hoses and other parts.
- Service to any mechanical or electric components are only to be performed by trained professionals.
- Any service on electric components and / or mechanical components must be performed while the machine is disconnected from any source of power.
- **STORE AWAY FROM CHILDREN AND ANIMALS, IN DRY, SHADED, VENTILATED CONDITIONS AT ROOM TEMPERATURE.**





## OPERATION

### A) PREPARATION

1. This equipment is for professional use of trained personnel only.
2. Read SAFETY page prior to use.
3. NEVER operate pump in wet or combustible conditions. DO NOT leave machine subjected to high temperature, direct sunlight and inflammables.
4. Wear all of the appropriate protective gear including gloves, goggles, and face shield.
5. While disconnected from any source of electricity: Always and everytime prior to use check all components to be free of damage, check all connections for tightness. Check body panels (gear and chain service panel) to be tightly affixed.
6. Have work site ready for application.
7. Only compatible and approved materials are to be used with pump. SealBoss® 6500 QuickFix joint filler is recommended material for the SealBoss® JointMaster Pro2 G3i Digital.
8. When filling the tanks, all power sources must be disconnected, including battery setup. Fill tanks with separate materials. Always use the same tanks for the same material, (A side in A tank, B side in B tank).
9. Open relief valves on top of tank lids by turning them clockwise (towards the lid) until fully open. Keep tank valves open during operation. Closed valves can cause vacuum effect which may diminish material flow and may distort ratios.



### B) PUMP OPERATION

1. With the control dial on the applicator set to the OFF position, connect pump to appropriate power supply.

Digital display will read 0.0. If any other reading is shown, do NOT operate.

Again, check control dial on applicator to be in the OFF position. When 0.0 appears, press RUN button under display. Blinking light will appear on display next to "RUN" (see picture to right the control dial on the control panel has been disabled by default).





The machine is now ready for operation and the control dial on the applicator is active. Turning the dial on the applicator away from the OFF position will send a signal to the control box to operate the electric motor. The speed will increase as the dial is turned away from the OFF position. The digital read out will increase with increased speed.

**2. Priming: At very low speed, run a small amount of material out to verify both materials are being pumped freely and evenly. Once verified, stop the pump and attach static mixer to manifold with retaining nut. Before applying product to the joint, first discard material through static mixer until a uniform mixture is achieved. This will eliminate any uncured sections. Follow this procedure for each mixer replacement.**

3. Adjust the speed control by turning the control knob on the applicator to your requirements while dispensing material. (The digital read out on the panel will show a number. It may be helpful to use this number as a guideline for the material used and the job conditions when handing over equipment to a new operator.) The JointMaster pump is designed to dispense the product evenly at a rate that permits the continuous filling of joints. The operational pressures during normal operation are low to moderate.

**Caution: It is important to keep the pump at an even rate of flow at any time during the filling process to allow for clean product ratio and delivery, and to avoid product build up in the system. Any obstruction such as cured material in the hoses, pumps, manifold or mixers can cause back pressure which may throw off the product ratio and may subsequently cause damage to the pump seals and other components of the system. Just a short interruption in flow may result in reactive build up and obstruction. At any indication of reduced flow, the pump should be stopped and the obstruction removed. In most cases, this means that the static mixer needs to be replaced.**

**Do not allow material to run dry in either tank during product application.**

**4. Replace mixers as necessary. Build-up in mixers may result in off ratio product. After each mixer replacement, refer to B) PUMP OPERATION, and start process over, including priming.**

Static mixers must be replaced after each interruption long enough to allow for a reactive process of product causing an obstruction of flow. Depending on material this may be as short as 30 seconds of stagnant product in the mixer.

5. While QuickFix products offer the advantage of large application temperature ranges, the product itself must be conditioned to room temperature or slightly above ( approx. 75-90°F/20-28°C). Tank heater bands are available to keep product warm and viscosities low.

To stop operation, turn potentiometer control dial on the applicator to OFF. Then immediately press STOP button on control box below the display screen. Unplug machine completely from any source of electricity when not in operation or not supervised by a trained professional.

## CLEANING & MAINTENANCE

**Material must not be left in the tanks over extended periods of time. Highly reactive products should be drained immediately. The less material is left, the sooner it should be drained.** If material is left in the tanks, properly seal under the lid of the tanks with appropriate seal, to avoid hardening or crystallization of the material.

### Standard JointMaster Purging and Cleaning:

The tanks are purged by opening the drain valves located between tank and the pump below. (A small length of suitable hosing may be attached to extend the drain valve to the material pails.) The material will drain via gravity from the tanks until empty. At this time, close the drain valves. **Check and clean debris from strainers at base of tanks.**

If approved on the job, fill the tanks with a very small amount of xylene, or other approved solvent. **Caution: Solvent may be hazardous and / combustible. Do not bring solvent in contact with other parts of the machine! Only use if there is adequate ventilation and not prohibited otherwise! DO NOT leave any solvents in the unit as it will reduce the service life of seals and hoses.** Have container ready, turn on pump to purge the supply lines at low operating speed of any excess joint filler. You will know the excess material has been purged when you observe solvent coming through the mixing manifold. Once this is observed, you may fill the tanks with a generous amount of SealBoss R70 pump flush and dispense to purge and lubricate the pump gears and hose lines until flush is observed at the mixing manifold. The night cap can then be placed on the mixing manifold and the JointMaster Pro2 can be stored with some SealBoss R70 in the tanks and lines for future use. **All material, solvent, and cleaner is to be discarded in accordance with applicable local, state, and/or jobsite disposal regulations.**



**Optional: If equipped with manifold drain valve setup for pressurized purging, firstly** put the night cap on the manifold closing the opening from the mixing manifold, and then open both drain valves on the manifold. **Important: Both drain valves must be open at the same time!** Each drain valve must now be directed to the respective A and B side pails for material purging. The JointMaster Pro2 is then turned on at very low speed until the drain valves begin to dispense air and the uniform stream of material is no longer



## JointMaster Pro2 G3i Digital

observed. At this point, the applicator must turn off the pump, close the drain valves, remove the nightcap, and clean the machine with solvent/R70 combination per the Standard Purging procedure. **Check and clean debris from strainers at base of tanks.** If approved on the job, fill the tanks with a very small amount of xylene, or other approved solvent. **Caution: Solvent may be hazardous and / combustible. Do not bring solvent in contact with other parts of the machine! Only use if there is adequate ventilation and not prohibited otherwise! Do NOT leave any solvents in the unit as it will reduce the service life of seals and hoses.**

Have container ready, turn on pump to purge the supply lines at low operating speed of any excess joint filler. You will know the excess material has been purged when you observe solvent coming through the mixing manifold. Once this is observed, you may fill the tanks with a generous amount of SealBoss® R70 Pump Flush & Cleaner and dispense to purge and lubricate the pump gears and hose lines until flush is observed at the mixing manifold. The night cap can then be placed on the mixing manifold and the SealBoss® JointMaster Pro2 G3i Digital can be stored with some SealBoss® R70 Pump Flush & Cleaner in the tanks and lines for future use. **All material, solvent, and cleaner is to be discarded in accordance with applicable local, state, and/or jobsite disposal regulations.**

**When finished, turn off the pump, disconnect your power source and close relief valves on lids. Install night cap.**

**Optional: If equipped with manifold zerk fittings,** remove nozzle and apply grease to the manifold by connecting a grease gun to the zerk fittings. Fill with grease until it flows out from the manifold opening.

**While disconnected from power source,** wipe off any spilled material residue from the pump and check pump, applicator, all fittings, hoses, and wires for wear, tightness and damages. **Never rinse off pump with water.** Replace parts as necessary. Do not operate pump with worn or damaged parts.

### MAINTENANCE, ADJUSTMENTS TO BE PERFORMED BY QUALIFIED AND TRAINED TECHNICIANS ONLY

- **Electric Shock Hazard**  
Even if the power has been turned off, a charge may still remain in the DC-link capacitors with hazardous voltages before the POWER LED is OFF. All



warranties void if digital electrical drive is compromised or the Aluminum Control Box enclosure is opened. All safety precautions apply. Do not touch the internal circuit and components. There are highly sensitive MOS



components on the printed circuit boards. These components are especially sensitive to static electricity. Never reassemble internal components or wiring.

- **Chain Maintenance**  
**Disconnect from any source of electricity!**  
**The chain has been adjusted prior to shipping. Over time of extended use the chain may stretch and may need to be checked and adjusted as necessary. This adjustment requires removal of front panel and needs to be performed by a professional technician only. The chain tension is adjusted by moving the motor bracket up or down. All safety precautions apply.**



## RETURN POLICY DISCLAIMER

**SealBoss® Corp. does not accept any returns of used JointMaster pumps.**

Your SealBoss® JointMaster Pro2 G3i Digital pump has been assembled from high quality components made by various manufacturers. The SealBoss® JointMaster Pro2 G3i Digital frames and applicators are custom made. To ensure competitive sales prices to the professional user, any return of used pumps is cost prohibitive.

It is the responsibility of the applicator / customer to do their due diligence in matching the equipment with the product to be dispensed, and to determine compatibility. Our SealBoss® Corp. technical staff will assist you in gathering information pertaining to the suitability of the equipment. The final decision and responsibility, however, lies with the customer and professional user of the equipment.

## SPECIFICATIONS

Weight:	Basic Pump 205 lbs dry extra equipment not included.
Height:	44" (5 gal tanks), 47" (6 gal tanks) Width: 25", Length: 29.5"
Motor:	1/3HP AC Gear, Motor RPM: 1710, Gearbox RPM: 322, Torque: 66 in lbs
Pumps:	Internal rotary gear pumps
Tanks:	5 gal/ 6 gal, 14 gauge 304 stainless steel
Power:	110V 5A, 220V version available
Hoses:	3/8" x 14.5' braided, protective sleeve
Wheels:	6", swivel wheels with brakes
Control:	Extended lightweight handle, dual port manifold, digital speed control. Low voltage control line to applicator
Viscosity:	approx. 50–4000 cps, depending on material, please call.
Flow Rate:	approx. 0.1 to over 1 gallon per minute
Ratios:	1 – 1 ratio standard, other ratios available



## JointMaster Pro2 G3i Digital

### PARTS LIST

1.	BIPJM2-XXTSPROC	XX T SPROCKET JOINTMASTER 2	2	SIZE MAY VARY
2.	BIPJM2-2125	JOINTMASTER PIPE TEE	2	SIZE MAY VARY
3.	BIPJM2-2125REDUCER	JOINTMASTER PIPE TEE REDUCER	2	
4.	BIPJM2-YYTSPROC	YYT MOTOR SPROCKET	1	
5.	BIPJM2-5GAL-SS-LID	LID FOR STEEL TANK	2	
6.	BIPJM2-5GAL-SS-TANK	5 GAL STEEL TANK	2	
7.	BIPJM2-6GAL-SS-TANK	6 GAL STEEL TANK	2	
8.	BIPJM2-CHAIN-HD	ORIGINAL REPL. CHAIN JM 2	1	SIZE MAY VARY
9.	BIPJM2-DRAINBALLVALV	JM2 DRAIN BALL VALVE	2	
10.	BIPJM2-DRAINELBOW	JM2 DRAIN ELBOW 45	2	
11.	BIPJM2-FRAME-G3	JOINTMASTER FRAME	1	
12.	BIPJM2-HOSEMESH	HOSE MESH JOINTMASTER	1	
13.	BIPJM2-LIDAIRVENT	NIGHT CAP JM2 LID AIR VENT	2	
14.	BIPJM2-MANIF-ELBOW	ELBOW MANIF.JOINTMASTER2	2	
15.	BIPJM2-MANIFOLD	MIXING MANIFOLD JOINTMASTER 2	2	
16.	BIPJM2-MOTOR-G3	REPLACEMENT MOTOR NEW STYLE	1	
17.	BIPJM2-NIGHT CAP	NIGHT CAP JM2 (NUT SEPARATE)	1	
18.	BIPJM2-PIPENIP-G3	JM2 PIPE NIPPLE 1/2"-ORB	2	
19.	BIPJM2-PUMPELBOW-G3	JM2 PUMP ELBOW 90	2	
20.	BIPJM2-PUMP-V3	REPLACEMENT PUMP-G3	2	
21.	BIPJM2-RETAINNUT	RETAINING NUT JOINTMASTER	1	
22.	BIPJM2-VFD-G3	VARIABLE FREQUENCY DRIVE	1	
23.	BIPJM2-SCREENFILTER	STRAINER	2	
24.	BIPJM2-SUPPLYLINE15	HOSE 15'	2	
25.	BIPJM2-POTENTIOM-G3	VOLUME SWITCH	1	
26.	BIPJM2-WHEELRIGID	RIGID CASTER WHEEL	2	
27.	BIPJM2-WHEELSWIVEL	SWIVEL CASTER	2	
28.	BIPJM2-STEELCLAMP	JM STEEL TANK CLAMP	2	
29.	BIPJM2-HEATER BAND	JM HEATER BAND	2	
30.	BIPJM2-MANIFOLD45DEG	MANIFOLD 45 DEG ELBOW	2	
31.	BIPJM2-MANIFOLDBALLVAL	MANIFOLD BALL VALVE	2	
32.	BIPJM2-MANIFOLDNIPPL	CONNECTOR MALE-MALE	2	

BIPJM2-LIDAIRVENT JM2 LID AIR VENT  
 BIPJM2-5GAL-SS-LID STEEL TANK LID  
 BIPJM2-HEATERBAND JM2 HEATER BAND

BIPJM2-STEELCLAMP TANK CLAMP

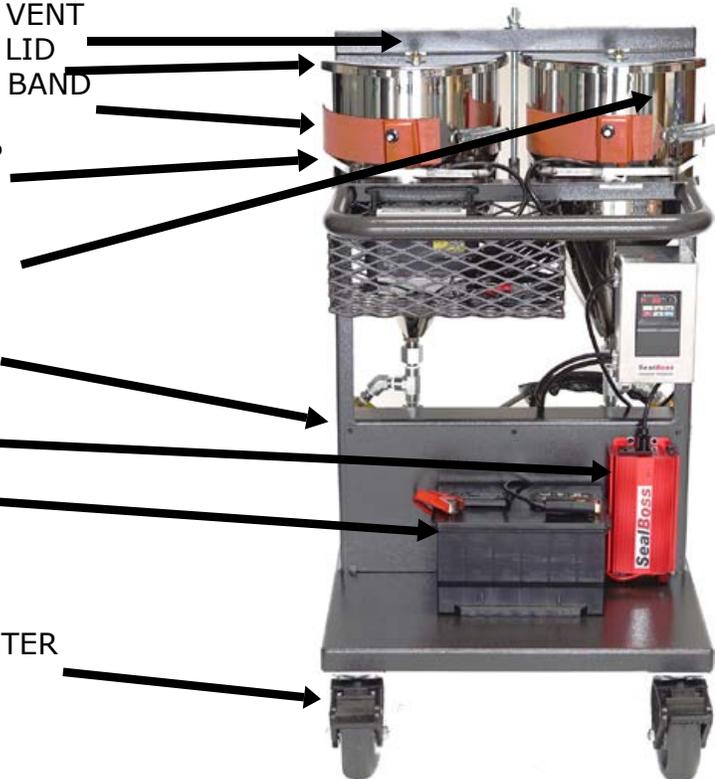
BIPJM2-5GAL-SS-TANK 5 GAL TANK  
 BIPJM2-6GAL-SS-TANK 6 GAL TANK

BIPJM2-FRAME-G3 JM2 FRAME

JM2 INVERTER

BATTERY (Not Sold By SealBoss®)

BIPJM2-WHEELSWIVEL SWIVEL CASTER



SealBoss® JointMaster Pro2 G3i Digital

BIPJM2-HOSEMESH

HOSE MESH

BIPJM2-MOTOR-G3

MOTOR



### SPROCKET GEARING AND CHAIN MAY VARY

BIPJM2-XXTSPROC

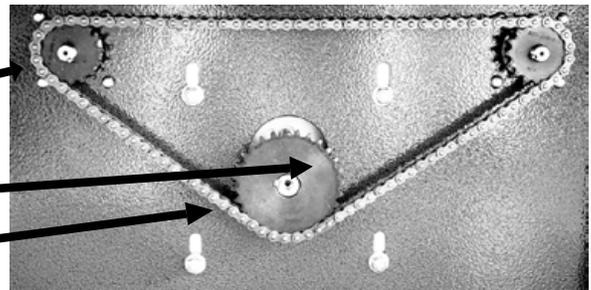
XXT SPROCKET  
JOINTMASTER

BIPJM2-XXTSPROC

YYT MOTOR SPROCKET

BIPJM2-CHAIN-HD

CHAIN JM 2



BIPJM2-SCREENFILTER  
BIPJM2-2125REDUCER  
BIPJM2-2125

STRAINER (INSIDE)  
JM2 2125 REDUCER  
JM2 PIPE TEE

BIPJM2-PIPENIP-G3

JM2 CONNECTOR 1/2"

BIPJM2-DRAINELBOW

DRAIN ELBOW 45

BIPJM2-DRAINBALLVALV

JM2 DRAIN BALL VALVE

BIPJM2-PUMP-V3

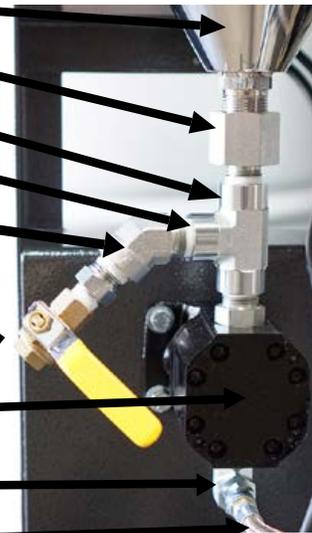
GEAR PUMP

BIPJM2-PUMPELBOW-G3

JM2 PUMP ELBOW 90

BIPJM2-SUPPLYLINE15

HOSE 15'



BIPJM2-VFD-G3

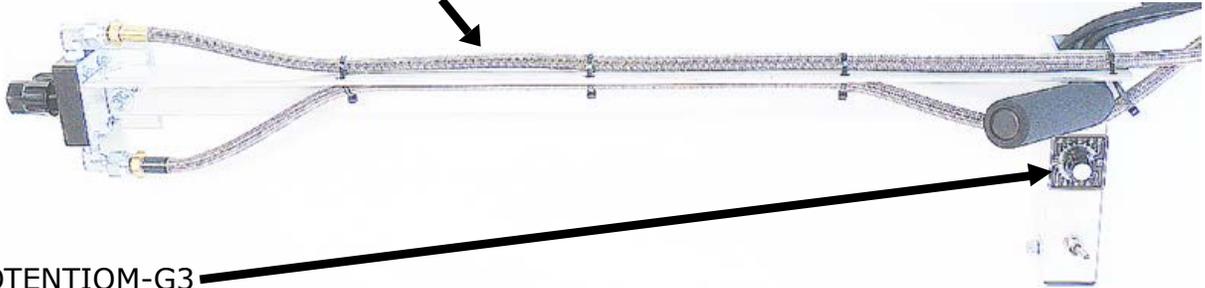
DIGITAL VARIABLE SPEED DRIVE





## JointMaster Pro2 G3i Digital

BIPJM2-APPLICATOR (HOSES, MANIFOLD & WIRING SOLD SEPERATELY)



BIPJM2-POTENTIOM-G3

BIPJM2-MANIFOLD

MANIFOLD

BIPJM2-RETAINNUT

RETAINING NUT

BIPJM2-NIGHT CAP

NIGHT CAP JM2

BIPJM2-MAN-ELBOW

ELBOW JM 2

BIPJM2-MANIFOLD

MIXING MANIFOLD JM 2

### OPTIONAL MANIFOLD DRAIN VALVE ASSEMBLY

BIPJM2-MANIFOLD45DEG

45 DEG ELBOW

BIPJM2-MANIFOLDBALLVAL

BALL VALVE

BIPJM2-MANIFOLDNIPPL

CONNECTOR MALE



**Note: All technical information, designs and components subject to change without notice.**



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