

Service Instructions

Syntron® Jogger
Model: J-1-D




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Syntron Material Handling, LLC. reserves the right to make changes at any time, without notice and without any liability or other obligation on its part, in materials, equipment, specifications and models, and also to discontinue the manufacture and sale of models and the parts and components thereof. For further detailed information, contact Syntron Material Handling, LLC.

 Safety Instructions: Product safety labels must be highly visible on the equipment. Establish a regular schedule to check visibility. Should safety labels require replacement, contact Syntron Material Handling, LLC. for an additional supply free of charge.

INTRODUCTION

The Syntron® Electromagnetic Jogger, Model J-I-D is used for jogging and packing of materials. A magnet assembly produces a vibrating action, which is transmitted to the deck or rack through a system of leaf springs.

Refer to these service instructions prior to installing, adjusting, or performing maintenance on this jogger.

 **WARNING:** Failure to follow these instructions could result in unsatisfactory jogger performance, damage or shortened service life, or personal injury.

Inspect the jogger for damage which may have occurred during shipment. If any damage is found, immediately notify the shipping carrier and Syntron Material Handling, LLC..

Unauthorized modifications to the jogger may present a safety hazard to the operator and void the warranty. Modifications or additions to the jogger should not be made without first consulting Syntron Material Handling, LLC.

The jogger weighs approximately 25 pounds and must be lifted by the base only. The voltage and frequency of the power supply must be as specified on the nameplate. The power supply of another rating may cause damage to the unit.

INSTALLATION

! CAUTION: To prevent possible damage, lift the jogger by the base only. Lifting by the bin or top cover may cause damage.

Locate the jogger on a solid support. The support must not vibrate while the jogger is operating. The bin or top cover must not be in contact with any rigid object or adjacent surface; it must be free to vibrate.

OPERATION

Place the jogger in its operating location and plug it into a self-grounding electrical receptacle. The power supply voltage and frequency must be as specified on the nameplate.

The vibratory amplitude of the unit is changed by a rheostat located on the control. Various deck configurations are available. See Syntron Material Handling, LLC. Syntron product literature for further details, capacities, etc.

For maximum efficiency, Syntron Material Handling, LLC. recommends a maximum load of 10 pounds for the J-1-D Jogger.

MAINTENANCE

Adjusting the Air Gap

! WARNING: The air gap must be adjusted while the jogger is in operation. Exercise caution to prevent electrical shock to personnel or damage to the jogger. A striking condition (indicated by a loud rapping noise) is caused by "too close" of an air gap. An excessive current draw (indicated by excessive heat) is caused by "too wide" of an air gap.

! Caution: Do not operate the jogger when either condition exists. An adjustment of the air gap is required.

Place the jogger in a position to gain access to the adjustment screw on the bottom. As suggested in Figure 1, place the jogger between two tables. Supporting the jogger by the bin or cover, or hand-holding the jogger will affect the adjustment of the air gap. The unit must be supported at the rubber feet.

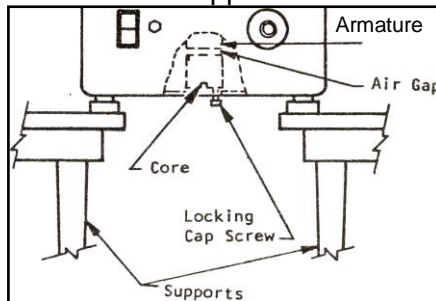


Fig. 1 - Air Gap Adjustment

Plug the electrical cord into a receptacle and operate the jogger at "100" dial setting. On the bottom of the jogger, loosen the socket head cap screw, which locks the core in position. Adjust the air gap using a screwdriver in the slot adjacent to the locking cap screw.

Note: Turning the screwdriver clockwise will lessen the air gap (to lessen the current draw). Turning the

screwdriver counterclockwise will widen the air gap (increasing the current draw).

To adjust the air gap to a proper setting, turn the knob on the front of the jogger to a "100" dial setting. Then turn the core clockwise until a striking condition exists, then immediately turn the screwdriver counterclockwise, just until the striking stops.

Check the current draw of the jogger using an a-c ammeter. If a clamp-on type ammeter is used the reading must be multiplied by 1.7. Do not exceed a current draw of 1.0 amps.

When the proper air gap has been achieved (indicated by the current draw), lock the core in place by turning the socket head cap screw on the bottom of the jogger. The jogger is now ready for further operation.

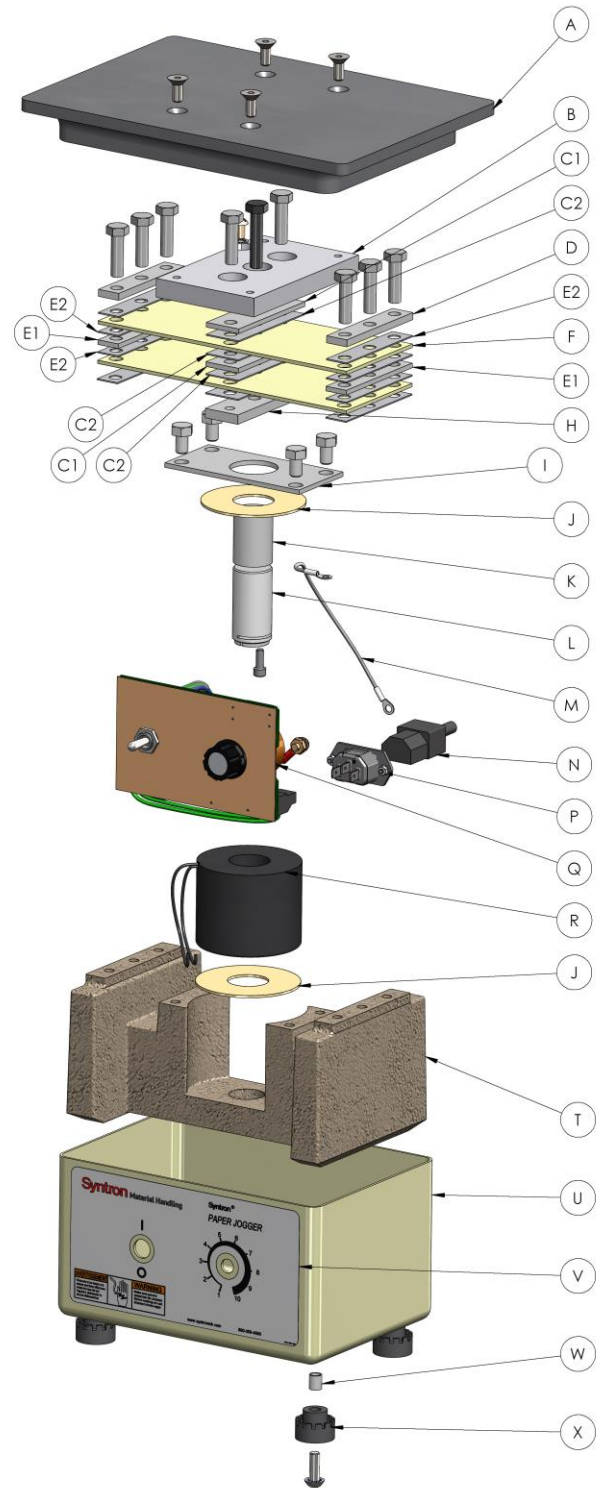
TROUBLE SHOOTING

PROBLEM	CAUSE	CORRECTION
Unit does not operate	Defective control board	* Replace
	Shorted wiring, loose connection, no power to unit	Repair
Unit operates, will not vibrate	Defective Control Board	*Replace
	Defective leaf springs Unit In contact with rigid object or adjacent surface	*Replace Isolate unit
Excessive noise	Armature and magnet assemblies making contact	Adjust air gap

*Replace only with parts supplied, or recommended, by Syntron Material Handling, LLC.

PARTS LIST

SyM	Description	QTY	Part No.
A	COVER / DECK	<i>(SEE NEXT PAGE)</i>	
B	COVER SUPPORT	<i>(SEE NEXT PAGE)</i>	
C1	CENTER SPACER (THICK STEEL)	<i>(NEXT PG)</i>	091818-002
C2	CENTER SPACER (THIN ALUM.)	<i>(NEXT PG)</i>	91819
D	SPRING CLAMP	2	91816
E1	END SPRING SPACER (THICK STEEL)	<i>(NEXT PG)</i>	097983-002
E2	END SPRING SPACER (THIN ALUMINUM)	<i>(NEXT PG)</i>	91817
F	LEAF SPRING 9-PLY	<i>(NEXT PG)</i>	091815-C01
	LEAF SPRING 11-PLY	<i>(NEXT PG)</i>	091815-A01
G	CENTER THICK STEEL SPACER	<i>(NEXT PG)</i>	091818-002
H	ARMATURE MOUNTING PLATE	1	91813
I	COIL CLAMP	1	91810
	HHCS 5/16-18 X 1/2	4	H0306401
J	COIL WASHER	2	81849
K	ARMATURE	1	91812
L	CORE	1	91811
	HEX HD CAP SCRW #10-32 X 1/2	1	H0419600
M	GROUND STRAP	2	164473-A
	ROUND HD MACH SCREW 10-32 X 3/8	2	H0203102
	NUT #10-32	1	H0101003
	#10 LOCKWASHER	1	H0112305
N	POWER CORD (USA)	1 ONLY	0063X019
	POWER CORD (UNITED KINGDOM)		0063X022
	POWER CORD (EUROPEAN)		0063X023
	POWER CORD (AUSTRALIAN)		0063X024
P	AC POWER ENTRY MODULE IEC-320 C-14	1	0202X224
	M3 X 8MM SCREW	2	6515-083-001
	M3 NUT	2	6515-083-002
	EXT TOOTH LOCKWASHER	2	H0112404
Q	CONTROL ASSEMBLY	1	6515-085-A
R	COIL ASSY (115V/60CY)	1 ONLY	091805-A
	COIL ASSY (220V/50CY)		091805-B
T	CAST IRON BASE	1	090992-A
U	ALUMINUM HOUSING	1	6515-082-001
V	FRONT DECAL	1	6515-084-001
W	SPACER SPLIT TYPE	4	0335X001
X	ISOLATOR FOOT	4	0207X024
	RD SL MACH SCREW 1/4-20 X 3/4	4	H0205101
	LOCKWASHER 1/4 INT TOOTH	4	H0112705



PARTS LIST (CONTINUED)

STYLE	Sym	Description	QTY	Part Number
<p>7X10 PLASTIC DECK (SHOWN ABOVE)</p> 	A	PLASTIC DECK	1	104408
		FL HD CAP SCREW 1/4-20 X 5/8	4	H0457902
	B	COVER SUPPORT (ALUMINUM)	1	114795
		SCREW HX HD 5/16-18 X 1-1/2	1	H0354624
		SCREW HX HD 5/16-18 X 1-1/8	8	H354524
	C1	CENTER SPACER (THICK STEEL)	2	091818-002
	C2	CENTER SPACER (THIN ALUMINUM)	4	91819
	E1	END SPRING SPACER (THICK STEEL)	2	097983-002
	E2	END SPRING SPACER (THIN ALUMINUM)	8	91817
	F	LEAF SPRING - 9 PLY	2	091815-C01
	LEAF SPRING - 11 PLY	-	091815-A01	
<p>2 BIN RACK</p> 	A	TOP COVER	1	114794-A
		2 BIN RACK	1	103209-A
		SCRW HX HD 1/4-20 X 1-1/4	4	H0302001
		PLAINWASHER TYPE A 1/4"	4	H0116601
	B	COVER SUPPORT (ALUMINUM)	1	114795
		SCREW HX HD 5/16-18 X 1-1/2	1	H0354624
		SCREW HX HD 5/16-18 X 1-1/8	8	H354524
	C1	CENTER SPACER (THICK STEEL)	2	091818-002
	C2	CENTER SPACER (THIN ALUMINUM)	4	91819
	E1	END SPRING SPACER (THICK STEEL)	2	097983-002
E2	END SPRING SPACER (THIN ALUMINUM)	8	91817	
F	LEAF SPRING - 9 PLY	-	091815-C01	
	LEAF SPRING - 11 PLY	2	091815-A01	
<p>SINGLE BIN RACK</p> 	A	SINGLE BIN DECK ASSEMBLY	1	195726-A
		BUTTON HD CAP SCRW 1/4-20 X 3/4	4	H0421002
		LOCKWASHER REG SPR 1/4	4	H0112802
	B	COVER SUPPORT (ALUMINUM)	1	114795
		SCREW HX HD 5/16-18 X 1-1/2	1	H0354624
		SCREW HX HD 5/16-18 X 1-1/8	8	H354524
	C1	CENTER SPACER (THICK STEEL)	2	091818-002
	C2	CENTER SPACER (THIN ALUMINUM)	4	91819
	E1	END SPRING SPACER (THICK STEEL)	2	097983-002
	E2	END SPRING SPACER (THIN ALUMINUM)	8	91817
F	LEAF SPRING - 9 PLY	-	091815-C01	
	LEAF SPRING - 11 PLY	2	091815-A01	

PARTS LIST (CONTINUED)

STYLE	Sym	Description	QTY	Part Number
 <p>2 POCKET TILT RACK</p>	A	2 POCKET TILT RACK	1	209958-A
		BUTTON HD CAP SCRW 1/4-20 X 3/4	4	H0421002
		LOCKWASHER REG SPR 1/4	4	H0112802
	B	COVER SUPPORT (ALUMINUM)	1	114795
		SCREW HX HD 5/16-18 X 1-1/2	1	H0354624
		SCREW HX HD 5/16-18 X 1-1/8	8	H354524
	C1	CENTER SPACER (THICK STEEL)	2	091818-002
	C2	CENTER SPACER (THIN ALUMINUM)	4	91819
	E1	END SPRING SPACER (THICK STEEL)	2	097983-002
	E2	END SPRING SPACER (THIN ALUMINUM)	8	91817
	F	LEAF SPRING - 9 PLY	-	091815-C01
	LEAF SPRING - 11 PLY	2	091815-A01	
 <p>RUBBER TOP DECK</p>	A	TOP COVER	1	91806
		NEOPRENE TOP COVER	1	102616
		FL HD CAP SCREW 1/4-20 X 5/8	4	H0457902
	B	COVER SUPPORT (STEEL)	1	91814
		SCREW HX HD 5/16-18 X 1-1/2	1	H0354624
		SCREW HX HD 5/16-18 X 1-1/8	8	H354524
	C1	CENTER SPACER (THICK STEEL)	2	091818-002
	C2	CENTER SPACER (THIN ALUMINUM)	4	91819
	E1	END SPRING SPACER (THICK STEEL)	2	097983-002
	E2	END SPRING SPACER (THIN ALUMINUM)	8	91817
	F	LEAF SPRING - 9 PLY	2	091815-C01
	LEAF SPRING - 11 PLY	-	091815-A01	

Important

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Your satisfaction is very important to us. Please direct any comments, questions, or concerns to our Marketing Communications Department.

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