

# Service Instructions

Syntron® TJ-2-B  
Jogger

# Service Instructions

## Syntron® Jogger

### Model: TJ-2-B

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#### INTRODUCTION

The Syntron® Electromagnetic Jogger, Model TJ-2-B is designed for alignment of paper stock. A magnet assembly produces a vibrating action which is transmitted to the rack or bin through a system of leaf springs.

The control assembly consists of an ON/OFF switch, a rheostat to control the amplitude of vibration, a rectifier to convert AC to DC, and a fuse.

Refer to this Service Instruction 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 is found, immediately notify the shipping carrier and Syntron Material Handling, immediately.

#### INSTALLATION



**CAUTION:** Lift the jogger by the base assembly 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 rack or bin must not be in contact with any rigid object or adjacent surface; it must be free to vibrate.

#### OPERATION

Place loosely stocked paper on its edge, in the bin or rack and place the switch in the ON position. The amplitude of vibration may be increased by turning the rheostat knob to a higher setting on the dial, a lower dial setting results in a lower amplitude. When the paper is in alignment, turn off the jogger.

For maximum efficiency, Syntron Material Handling recommends a maximum load of 30 pounds.

#### MAINTENANCE

Replacing rubber mounts:

- a. Disconnect the jogger from the power supply and remove the bin or rack. Place the jogger upside down on a suitable work surface.

- b. If jogger is equipped with a bottom cover, remove the cover and the feet. If there is no bottom cover, remove only the two back feet to gain access to the rubber mounts.
- c. Mark and disconnect the ground wire; and at the terminal block the two leads to the coil.
- d. Remove the cap screws from the rubber mounts and remove the cover assembly.
- e. Remove the rubber mounts and install the new mounts.
- f. The unit is now ready to reassemble, by reversing the procedure outlined in steps a-d above.

The jogger is now ready for operation.

#### 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. The rack or bin must be empty. Remove the top cover and loosen the bolts securing the core to the drive assembly housing (only enough to relieve the holding pressure).
- b. Adjust the air gap by turning the core adjusting bolts on the rear of the core assembly. Turning these bolts, clockwise will widen the air gap; counterclockwise will close the air gap. Adjust these bolts a little at a time and equally on each side.

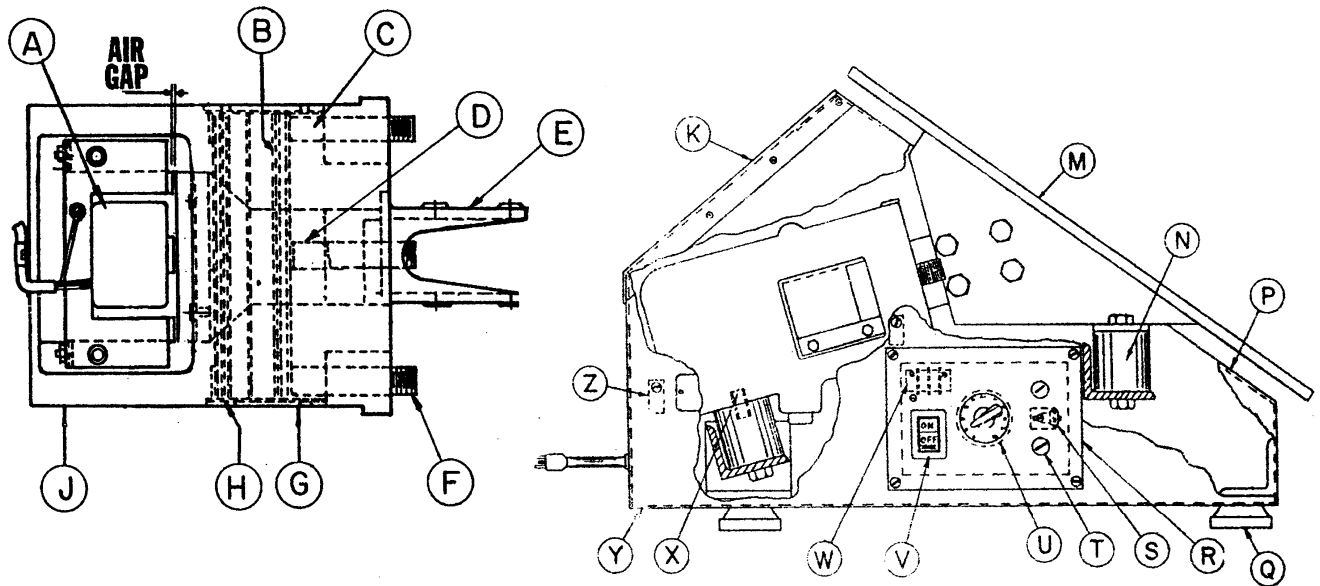
**NOTE:** SMH recommends an airgap of approximately .062". The faces of the core and armature must be parallel.

- c. After the air gap is adjusted, check the current draw of the jogger. It must not exceed the current rating as designated on the nameplate. When checking the current with a tong meter, multiply the meter reading by a value of 1.7.
- d. After adjusting the airgap, tighten the core hold down bolts and replace the top cover. The jogger is now ready for operation.

#### TROUBLE SHOOTING

PROBLEM	CAUSE	CORRECTION
Unit does not operate	Blown fuse	*Replace
	Defective rheostat	*Replace
	Shorted wiring, loose connection, no power to unit	Repair
Unit operates, will not vibrate	Defective rectifier	*Replace
	Defective rubber mounts	*Replace
	Unit in contact with rigid object or adjacent surface	Isolate unit
Excessive noise	Armature and magnet assemblies making contact	Adjust air gap

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



PARTS LIST –JOGGER MODEL: TJ-2-B

ITEM NO.	DESCRIPTION	QTY	PART NO.
A	Magnet Assembly (115V/60Cy)	1 Only	B-126333-E
	Magnet Assembly (230V/60Cy)		B-126333-F
	Magnet Assembly (115V/50Cy)		B-126333-G
	Magnet Assembly (230V/50Cy)		B-126333-H
	Cable Assembly		A-125391
	Lockwasher, Ext. tooth (#10)		H0112404
	Mach. Screw, Rd. Hd., Br. (#10-32 x 1/4")		H0202902
	Cable Clamp		0198X001
	Lockwasher (1/4")		H0112801
	Mach. Screw, Hex Hd. (1/4"-20 x 1/2")		H0300801
	Lockwasher (1/2")		H0113601
	Plainwasher (1/2")		H0117301
	Cap Screw Soc. Hd. (1/2"-13 x 1-1/4")		H0424300
	Cap Screw Soc. Hd. (5/16"-18 x 1")		H0419100
	Hex Nut (5/16"-18)		H0102401
B	Spring (Spacer, One Side)	---	A-91966
C	End Spring Clamp (3/4")	2	A-70579-A
	End Spring Clamp (1")	Only	A-70579-B
D	Center Spring Clamp (3/4")	1	A-77450-A
	Center spring Clamp (1")	Only	A-77450-B
E	Armature Bracket	1	C-725542-A
	Armature	1	A-70599
	Lockwasher (1/4")	4	H0112801
	Cap Screw, Soc. Hd. (1/4"-20 x 1/2")	4	H0416500
F	Set Screw	3	H0402400
G	Spring Alignment Plate	2	A-72781
	Lockwasher (1/4")	4	H0112801
	Mach. Screw, Hex Hd. (1/4"-20 x 1/2")	4	H0300801
H	End Leaf Spring (Spacer, Both Sides)	1	A-175650-A
J	Base Casting	1	C-92923
K	Top Cover	1	B-125404
	Lockwasher (#10)	16	H0112305
	Mach. Screw, Ph. Rd. Hd.	16	H0209704

PARTS LIST cont.

ITEM NO.	DESCRIPTION	QTY.	PART NO.
M	Deck Mounting Assembly (8 & 12 Bin Rack)	1	B-124155
	Deck Mounting Assembly (4 Bin Rack)	Only	B-125403
	Cap Screw, Hex Hd. (3/8"-16 x 3/4")	8	H0310001
N	Isolator	4	0207X026
	Cap Screw, Hex Hd. (1/2"-13 x 3/4")	6	H0314801
P	Cover Assembly	1	C-124154
	* Nameplate	1	A-62244
	Drive Screw, Rd. Hd., Ty "U" (#2 x 1/4")	2	H0430600
	* Label	1	A-156379-C1
Q	Foot	4	A-23450
	Mach. Screw, Truss Hd. (1/4"-20 x 1")	4	H0212801
R	Control Panel (115V)	1	A125401-A
	Control Panel (230V)	Only	A-125401-B
	Gasket	1	A-125400
	Lockwasher (#10)	4	H0112305
	Mach. Screw, Truss Hd. (#10-32 x 1/2")	4	H0210201
	* Label (Warning)	1	A-128494
	* Label (Caution)	1	A-125694
S	Rectifier (115V)	1	A-175582-B
	Rectifier (230V)	Only	A-175582-C
	Terminal (#10)	1	0245X016
T	Fuse	1	0174X026
	Fuseholder 115V	1	0038X257
	Fuse Label (6A)	1	A-72538-J
	Fuse	2	0174X023
	* Fuse Label (3A)	1	A-72538-K
U	Rheostat	1	0052X211
	Dial	1	A-87522-A
	Knob	1	0118X013
V	Switch	1	0051X477
W	Terminal Block	1	0173X020
	Marker Strip	1	0173X095
X	Stud	2	A-92886
Y	Bottom Cover	1	B128482
	Mach. Screw, Rd. Hd. (#8-32 x 3/16")	10	H0210501
	Lockwasher (#8 Int'l. Tooth)	10	H0112205
Z	Cable Clamp	2	0198X001
	Mach. Screw, Truss Hd. (#10-32 x 1/2")	2	H0210201
	Lockwasher (#10)	2	H0112305
	Hex Nut (#10-32)	2	H0101001
	Strain Relief	1	0230X006

\*Do not remove or paint over safety labels. If safety labels need replaced, contact Syntron Material Handling, LLC. Saltillo, MS 38866 (662) 869-5711, for an additional supply free of charge.

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