

Models: EB-111, EB-112 Syntron® Vibrating Base Units

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SPRING REPLACEMENT GUIDE

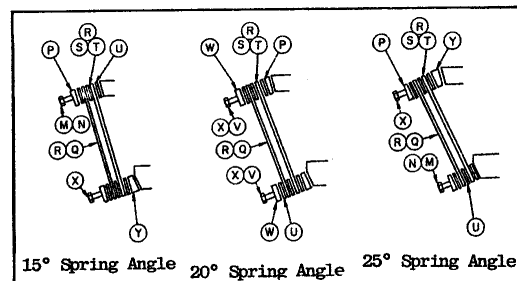
The numbers in parentheses refer to the item numbers in the illustration inside this manual.



WARNING: De-energize the unit.

NOTE: Models EB-111 and EB-112 contain 4 spring stacks. Replace or rebuild only one stack at a time. This permits the remaining stacks to serve as support for the upper mass (bowl, cross-arm and armature).

1. Proper arrangement of the spring stacks is critical to good feeder operation. Before removing spring stack, match mark each spring stack at the top and bottom so that the original arrangement can be maintained.



2. Remove all clamp bolts (M,V,X), blocks (W), wedges (N,Y), spacers (U) and leaf springs (P,Q,R,S,T).
Important: When removing these items, take special note of their location in the stack arrangement. Some special units may require more or less springs, spacers and shims than are shown in the illustration.
3. Examine each leaf spring, one at a time, for signs of fatigue or defects (breaks, hairline fractures, rust, etc.).



CAUTION: If a defect is found in any spring, all of the spring stacks should be carefully examined. Always replace defective spring with a new spring of the same thickness and width.

4. When reassembling a spring stack, it is important that each spring be isolated by spring spacers (U) at both the top and the bottom mounting locations.
5. With all springs, spring spacers, clamp blocks and wedges in position and aligned, insert and tighten the top and bottom clamp bolts.



NOTE: Never oil the spring assembly. If the spring stacks are repainted, be sure no paint is applied to the area between the springs.

6. Torque each clamp bolt a little bit at a time and evenly to a recommended torque of 110 foot-pounds.
7. Readjust the air gap per instructions in the EB Base Unit Service Instructions Manual (SM0690).

The unit is now ready for operation.

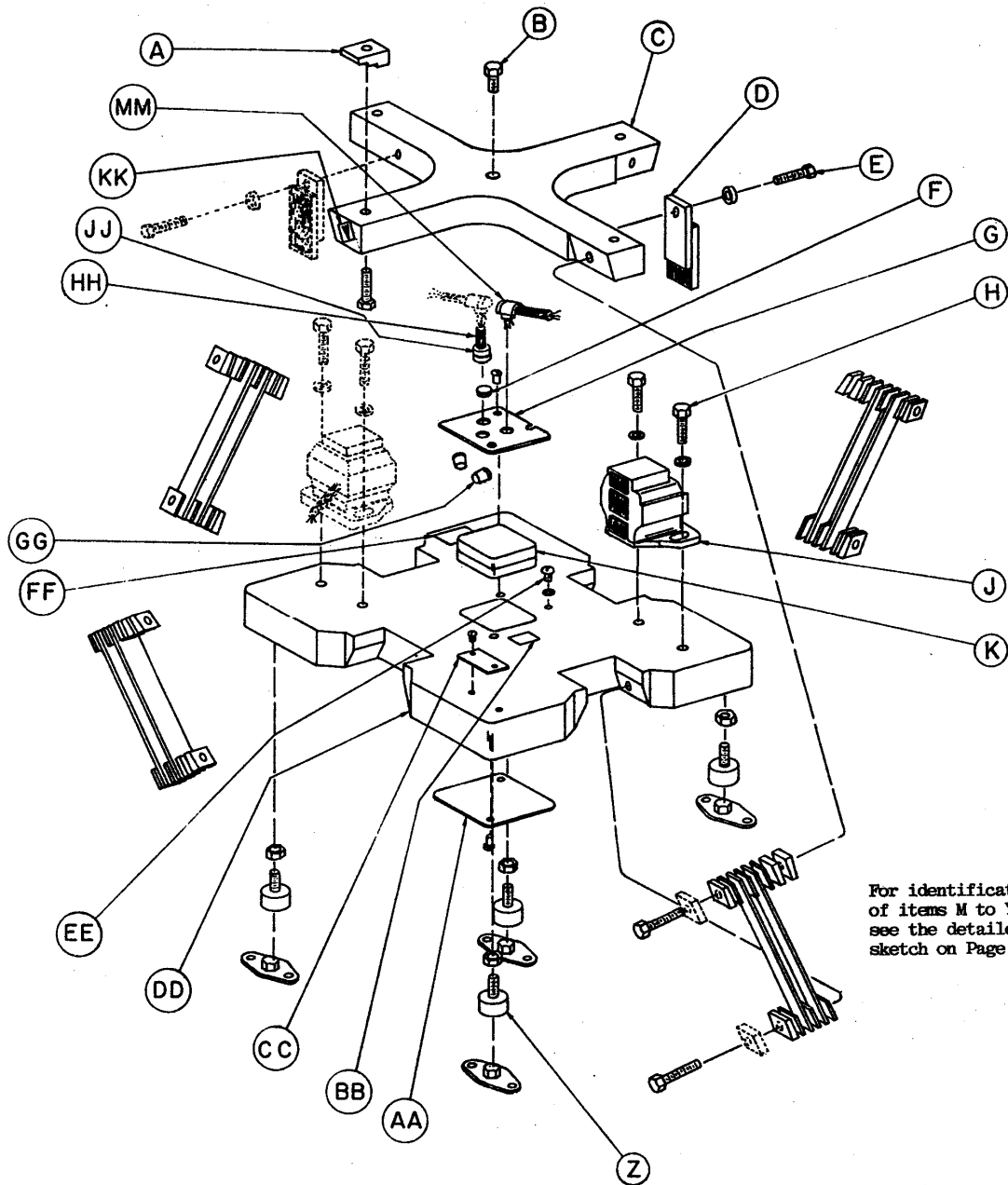
PARTS LIST – VIBRATORY PARTS FEEDER MODELS: EB-111, EB-112

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Part No.</u>
A	Δ Bowl Clamp (EB-112 only)	4	B-184013
	Δ Cap Screw, Hex Hd, Gr 8 (3/8" – 16 x 2") (EB-112 only)	4	H0322109
B	Δ Cap Screw, Hex Hd, Gr 8 (1/2" – 13 x 2-1/2") (EB-111 only)	1	H0304509
C	Crossarm (CW)	1	C-183974
	Crossarm (CCW)	1	C-183975
D	▲ Armature Assembly	1	B-183990
E	▲ Cap Screw, Hex Hd, Gr 8 (1/2" – 13 x 1-1/4")	1	H0319809
	▲ Plain Washer (1/2")	1	H0117312
F	Plug (EB-111 only)	1	0188X018
G	Top Cable Plate	1	A-183984
	Self-Tap Screw, Hex Hd SI (#10 – 32 x 1/2")	2	H0418413
H	▲ Cap Screw, Hex Hd, Gr 5 (3/8" – 16 x 3/4")	2	H0310009
	▲ Plain Washer (3/8")	2	H0117012
J	▲ Small Magnet Assembly (115 V / 60 Hz) }	1	C-184003-B
	▲ Small Magnet Assembly (230 V / 60 Hz) }	1	C-184003-C
	▲ Small Magnet Assembly (460 V / 60 Hz) } R.C. EB-111	1	C-184003-D
	▲ Small Magnet Assembly (115 V / 50 Hz) } EB-112	1	C-184003-E
	▲ Small Magnet Assembly (230 V / 50 Hz) }	1	C-184003-F
	▲ Small Magnet Assembly (460 V / 50 Hz) }	1	C-184003-G
	Small Magnet Assembly (115 V / 60 Hz) }	2	C-184003-H
	Small Magnet Assembly (230 V / 60 Hz)] A.C. EB-112	2	C-184003-J
	Small Magnet Assembly (115 V / 50 Hz)] only	2	C-184003-M
	Small Magnet Assembly (230 V / 50 Hz)]	2	C-184003-N
K	Insulator	2	A-184668
M	Cap Screw, Hex Hd, Gr 8 (1/2" – 13 x 1-1/2") 60 Hz }		H0320809
N	Cap Screw, Hex Hd, Gr 8 (1/2" – 13 x 1-1/4") 50 Hz }		H0319809
P	Wedge (5°) }		A-182647-C
Q	Leaf Spring (3/32" Thick) }		B-182548-C
R	Leaf Spring (1/8" Thick) }		B-182548-H
S	Leaf Spring (1/4" Thick) }		B-182548-D
T	Leaf Spring (3/16" Thick) }		B-182548-G
U	Spacer }	As Req'd	A-182648-C
V	Cap Screw, Hex Hd, Gr 8 (1/2" – 13 x 1-3/4") 50 Hz }		H0315609
W	Clamp Block }		A-182649-C
X	Cap Screw, Hex Hd, Gr 8 (1/2" – 13 x 2") }		H0303509
Y	Wedge (10°) }		A-203878-1
Z	Isolator	4	A-182591
	Hex Jam Nut (1/2" – 13)	4	H0104004
	Isolator Base	4	A-182595-A
AA	Bottom Cable Plate	1	A-183985
	Self-Tap Screw, Hex Hd SI (#10 – 32 x 1/2")	2	H0418413
BB	■ Warning Label	1	A-125694
CC	■ Nameplate	1	A-48808
	Drive Screw, Ty U (#2 x 1/4")	2	H0413000
DD	Base	1	C-183968-D
EE	Self-Tap Screw, Hex Hd SI (#10 – 32 x 1/2")	1	H0418413
	Lockwasher (#10)	1	H0112458
FF	■ Torque Label	1	A-183986
GG	▲ Connector	2	0202X040
HH	Cable Assembly	1	B-183983
JJ	Strain Relief Bushing	1	0230X012
KK	■ Stroke Gauge	1	A-186886
MM	▲ Right-Angle Strain Relief Bushing	1	0230X013

Δ When ordering these parts, specify the type of bowl.

▲ Double these quantities for EB-112.

■ Do not remove or paint over safety labels. Should safety labels need replaced, contact Homer City Automation for an additional supply free of charge.



OPERATING SPECIFICATIONS:

Maximum Current Rating:
(nameplate)

Model EB-112 (a.c.)

5.7 Amps – 115 V/60 Cy
 2.8 Amps – 230 V/60 Cy
 4.6 Amps – 115 V/50 Cy
 2.3 Amps – 230 V/50 Cy

Model EB-111 (r.c.)

2.5 Amps – 115 V/60 Cy
 1.35 Amps – 230 V/60 Cy
 1.4 Amps – 115 V/50 Cy
 0.7 Amps – 230 V/50 Cy

Model EB-112 (r.c.)

5.0 Amps – 115 V/60 Cy
 2.7 Amps – 230 V/60 Cy
 2.8 Amps – 115 V/50 Cy
 1.4 Amps – 230 V/50 Cy

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