

Models: EB-091, EB-092 Syntron® Vibrating Base Units

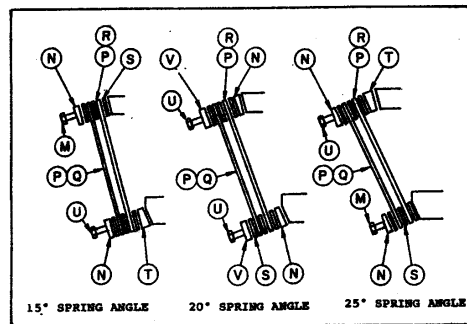
- Spring Replacement
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SPRING REPLACEMENT



WARNING: Before performing any maintenance work, the electrical supply must be disconnected at the safety disconnect switch.

NOTE: Models EB-091 and EB-092 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,U), clamp block (V), wedges (N,T), spacers (S) and leaf springs (P,Q,R).
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 (P,Q,R) be isolated by spring spacers (S) 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 (M,U).



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

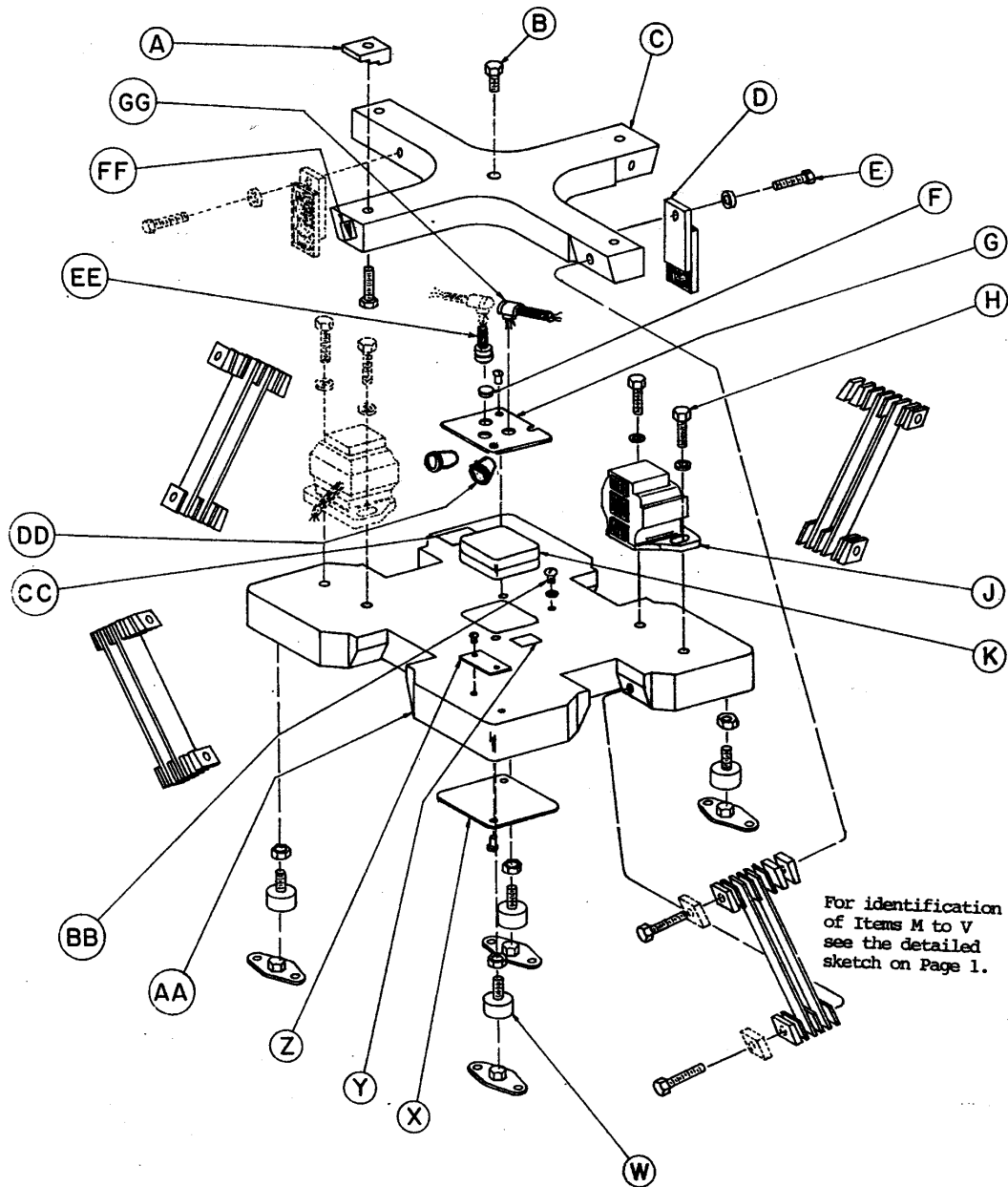
6. Torque each clamp bolt (M,U) a little bit at a time and evenly to a recommended torque of 110 foot-pounds.
7. Readjust the air gap per instructions in the EB Base Unit Service Manual (SM0690).
The unit is now ready for operation.

PARTS LIST – VIBRATORY PARTS FEEDERS MODELS: EB-091 and EB-092

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Part No.</u>
A	Bowl Clamp (EB-092)	4	B-184013
B	Δ Cap Screw, Hex Hd, Gr 8 (1/2" – 13 x 2-1/2") (EB-091)	1	H0304509
	Cap Screw, Hex Hd, Gr 8 (3/8" – 16 x 2")	4	H0322109
C	Crossarm (CW)	1	C-183972-1
	Crossarm (CCW)	1	C-183971-1
D	▲ Armature Assembly	2	B-184006
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-091 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 (5/16" – 18 x 1")	2	H0309110
	▲ Plain Washer (5/16")	2	H0116812
J	▲ Magnet Assembly (115 V / 60 Hz) }	1	C-183987-B
	▲ Magnet Assembly (230 V / 60 Hz) }	1	C-183987-C
	▲ Magnet Assembly (460 V / 60 Hz) } R.C. EB-091	1	C-183987-D
	▲ Magnet Assembly (115 V / 50 Hz) } EB-092	1	C-183987-E
	▲ Magnet Assembly (230 V / 50 Hz) }	1	C-183987-F
	▲ Magnet Assembly (460 V / 50 Hz) }	1	C-183987-G
	Magnet Assembly (115 V / 60 Hz)]	2	C-183987-H
	Magnet Assembly (230 V / 60 Hz)] A.C. EB-092	2	C-183987-J
	Magnet Assembly (115 V / 50 Hz)] only	2	C-183987-M
	Magnet Assembly (230 V / 50 Hz)]	2	C-183987-N
K	Insulator	2	A-184668
M	° Cap Screw, Hex Hd, Gr 8 (1/2" – 13 x 1-1/2") }		H0320809
N	° Wedge (5°) }		A-182647-C
P	° Spring (3/16" Thick) }		B-182548-G
Q	° Spring (3/32" Thick) }		B-182548-C
R	° Spring (1/8" Thick) }		B-182548-H
S	° Spacer }	As	A-182648-C
T	° Wedge (10°) }	Req'd	A-203878-1
U	° Cap Screw, Hex Hd, Gr 8 (1/2" – 13 x 2") }		H0303509
V	° Clamp Block }		A-182649-C
W	Isolator	4	A-182591
	Hex Jam Nut (1/2" – 13)	4	H0104004
	Isolator Base	4	A-182595-A
X	Bottom Cable Plate	1	A-183985-1
	Self-Tap Screw, Hex Hd SI (#10 – 32 x 1/2")	2	H0418413
Y	■ Warning Label	1	A-125694
Z	■ Nameplate	1	A-48808
	Drive Screw, Ty U (#2 x 1/4")	2	H0413000
AA	Base	1	C-183967-D
BB	Self-Tap Screw, Hex Hd SI (#10 – 32 x 1/2")	1	H0418413
	Lockwasher (#10)	1	H0112458
CC	■ Torque Label	1	A-183986
DD	▲ Connector	2	0202X040
EE	Cable Assembly	1	B-183983
	Strain Relief Bushing	1	0230X012
FF	Stroke Gauge	1	A-186886
GG	▲ Right-Angle Strain Relief Bushing	1	0230X013

° When ordering these parts, specify the angle of the spring stack. ▲ Double these quantities for EB-092.

Δ When ordering these parts, specify the type of bowl. ■ 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-091 (r.c.)

- 1.0 Amps – 115 V/60 Cy
- .5 Amps – 230 V/60 Cy
- .9 Amps – 115 V/50 Cy
- .45 Amps – 230 V/50 Cy

Model EB-092 (r.c.)

- 2.0 Amps – 115 V/60 Cy
- 1.0 Amps – 230 V/60 Cy
- 1.8 Amps – 115 V/50 Cy
- .9 Amps – 230 V/50 Cy

Model EB-092 (a.c.)

- 3.6 Amps – 115 V/60 Cy
- 1.8 Amps – 230 V/60 Cy
- 3.0 Amps – 115 V/50 Cy
- 1.5 Amps – 230 V/50 Cy

Homer City Automation, Inc.
57 Cooper Avenue
Homer City, PA 15748
Phone (724)-479-4503
FAX: (724)-479-4767
Email: info@homercityautomation.com
Web: www.homercityautomation.com

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