

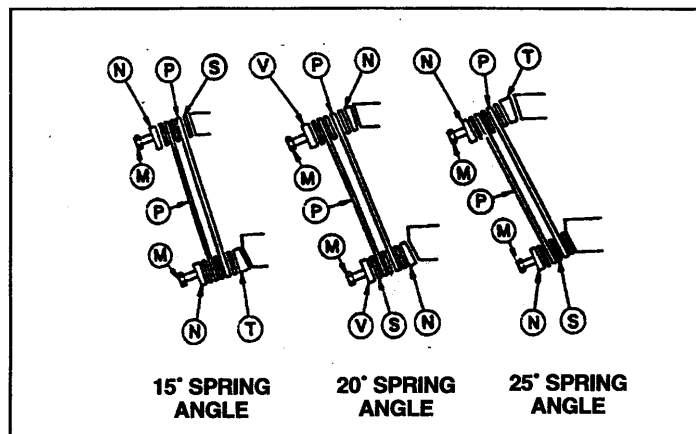
Syntron[®] Vibratory Parts Feeder Drive Model: EB-162-A

SPRING REPLACEMENT ■ PARTS LIST ■ SPECIFICATIONS ■ ■ ■ ■ ■ ■ ■ ■

Thank you for buying your equipment from Homer City Automation, Inc. This manual will help you to understand how your equipment operates and what is required to maintain peak performance. Please read it thoroughly and keep it on file for reference. Your satisfaction is important to us, so please direct any comments to our Marketing Communications department.

■ SPRING REPLACEMENT

Throughout this manual, the letters in parentheses refer to the items in the parts list.



WARNING: Disconnect the electrical supply at the safety disconnect switch before performing any maintenance work.

NOTE: Model EB-162-A Parts Feeder Drive contains four spring stacks. Replace or rebuild only one stack at a time. This permits the remaining stacks to support the upper mass (bowl, cross-arm, and armature).

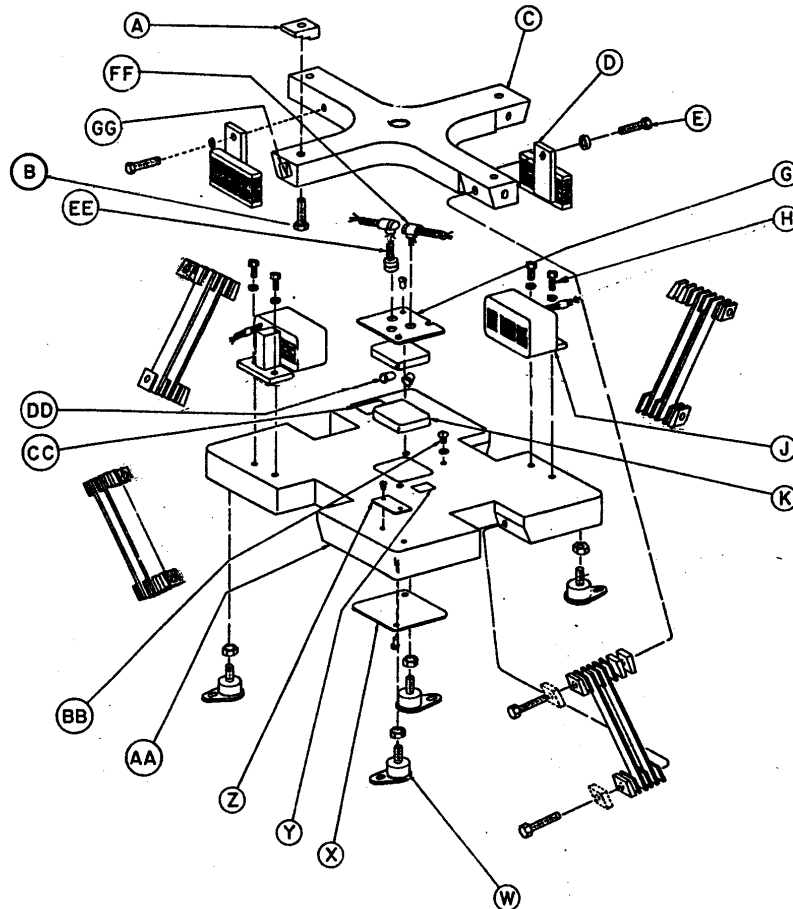
1. Proper arrangement of the spring stacks is critical to good feeder operation. Before removing a spring stack, match mark each spring stack at the top and bottom so that the original arrangement can be maintained.
2. Remove the clamp bolts (M), clamp blocks (V), wedges (N,T), spacers (S), and leaf springs (P). **IMPORTANT:** When removing these items, take special note of their location in the stack arrangement. Some special units may have either more or fewer springs, spacers, and/or shims than are shown in the illustration. To avoid premature spring failure, the thickest springs are assembled first on the stack, and the thinnest last.
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 one spring, carefully examine all of the spring stacks. Always replace springs with new springs of the same size and thickness.

4. When reassembling a spring stack, it is important that each spring (**P**) be isolated by spring spacers (**S**) at both the top and bottom mounting locations, and that the springs are in their correct locations.
5. With all springs, spring spacers, clamp blocks, and wedges are in position and aligned, insert and tighten the top and bottom clamp bolts (**M**).
NOTE: Never oil the spring assemblies. If the spring stacks are repainted, be sure that paint is not applied to the area between the spring clamping surfaces.
6. Evenly torque each clamp bolt (**M**), a little at a time, to a recommended torque of 110 ft lb minimum (149.6 Nm).

Connect the electrical supply and readjust the air gap, if necessary, referring to the instructions in the EB-A Base Unit Service Instructions (Manual No. SM0655). Check the current draw to be sure that the ratings in the Operating Specifications Chart are not exceeded.

The unit is now ready for operation.



■ PARTS LIST

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Part No.</u>
A	◆ Bowl Clamp	4	B-184013
B	◆ Cap Screw, Hex Hd, Gr 8 (1/2" – 13 x 2-1/2")	4	H0304509
C	Crossarm (CW)	] 1	D-215402-2
	Crossarm (CCW)	] Only	D-215402-3
	▲ Adapter Ring (24" Aluminum Bowl) (Not Shown)	1	B-184068
D	Armature Assembly	2	B-215418-A
E	Cap Screw, Hex Hd, Gr 8 (1/2" – 13 x 1")	2	H0323809
	Plain Washer (1/2")	2	H0117312
G	Top Cable Plate	1	A-183984
	Self-Tapping Screw, Hex Hd (#10 – 32 x 1/2")	2	H0418413
	Lockwasher (#10)	1	H0112458
H	Cap Screw, Hex Hd, Gr 5 (3/8" – 16 x 1")	4	H0310209
	Plain Washer, Heavy, Hardened (3/8" I.D. x 7/8" O.D. x 1/8" Tk.)	4	H0119367
J	• Magnet Assembly	2	-----
K	Insulator	2	A-184668
M	▲ Cap Screw, Hex Hd, Gr 8 (1/2" – 13 x 1-1/2")	]	H0320809
	▲ Cap Screw, Hex Hd, Gr 8 (1/2" – 13 x 1-3/4")	]	H0315609
	▲ Cap Screw, Hex Hd, Gr 8 (1/2" – 13 x 2")	] As	H0303509
	▲ Cap Screw, Hex Hd, Gr 8 (1/2" – 13 x 2-1/4")	] Req'd	H0321709
	▲ Cap Screw, Hex Hd, Gr 8 (1/2" – 13 x 2-1/2")	]	H0304509
N	▲ Wedge (5°)	]	A-182647-C
P	▲ Spring (3/32" Tk.)	]	B-182548-C
	▲ Spring (1/8" Tk.)	]	B-182548-H
	▲ Spring (3/16" Tk.)	] As	B-182548-G
	▲ Spring (1/4" Tk.)	] Req'd	B-182548-D
	▲ Spring (3/8" Tk.)	]	B-182548-B
	▲ Spring (1/2" Tk.)	]	B-182548-M
S	▲ Spacer	]	A-182648-C
T	▲ Wedge (10°)	]	A-203878-1
V	▲ Clamp Block	8	A-182649-C
W	Isolator	4	B-215478-A
X	Bottom Cable Plate	1	A-183985-1
	Self-Tap Hex Hd Screw (#10 – 32 x 1/2")	2	H0418413
Y	■ Warning Label	1	A-125694
Z	■ Nameplate	1	A-48808
	Drive Screw, Type U (#2 x 1/4")	1	H0430600
AA	Base (CW)	] 1	D-215410-2
	Base (CCW)	] Only	D-215410-3
BB	Self-Tap Hex Hd Screw (#10 – 32 x 1/2")	1	H0418413
	Lockwasher (#10)	1	H0112458
CC	■ Torque Label	1	A-183986
DD	Connector	4	0202X039
EE	Cable Assembly	1	B-183983-B
	Strain Relief Bushing	1	0230X012
FF	Right-Angle Strain Relief Bushing	2	0230X013
GG	Stroke Gauge	1	A-58462

- ▲ Specify the spring stack angle.
- ◆ Specify the bowl type.
- Supply nameplate information.
- Do not remove or paint over safety labels. If safety labels need replaced, contact Homer City Automation, Inc. for an additional supply free of charge.

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■ OPERATING SPECIFICATIONS

		Voltages							
		115/60	208/60	230/60	460/60	575/60	110/50	220/50	380/50
RC	Recommended Static Air Gap	0.07" (1.78 mm)				0.078" (1.99 mm)			
	Current Draw (Amps)	8.1	4.5	4.0	2.0	1.6	6.7	3.4	1.9
AC	Recommended Static Air Gap	0.035" (0.89 mm)				0.04" (1.02 mm)			
	Current Draw (Amps)	17.2	9.5	8.6	4.3	3.4	14.8	7.4	4.3

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