

Syntron[®] Vibratory Parts Feeder Drive

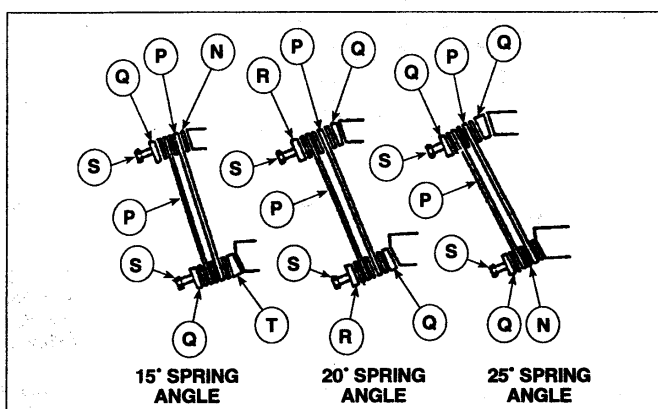
Model: EB-252-A

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

Thank you for buying your equipment from Homer City Automation. 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-252-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).

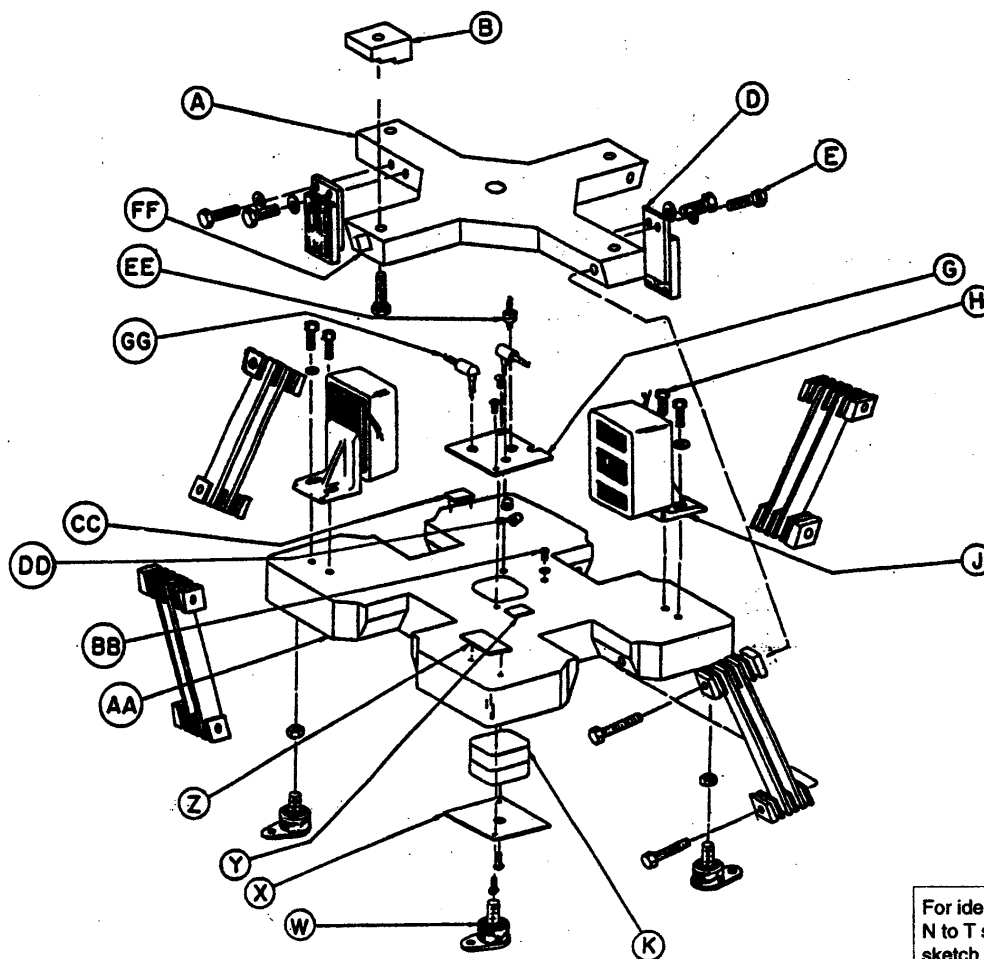
1. Proper arrangement of the spring stacks is critical to good feeder operation. Before removing a spring stack, match mark each spring stack at the top and bottom so that the original arrangement can be maintained.
2. Remove the clamp bolts (S), clamp blocks (R), wedges (Q,T), spacers (N), and leaf 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 rebuilding a spring stack, it is important that each spring (**P**) be isolated by spring spacers (**N**) at both the top and bottom, on both sides of the spring.
5. With all springs, spring spacers, clamp blocks, and wedges are in position and aligned, insert and tighten the top and bottom clamp bolts (**S**).
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 250 ft lb minimum (306 Nm).
7. Connect the electrical supply, check and readjust the air gap, if necessary, referring to the instructions in the EB Parts Feeder Service Manual (No. SM0655). Check the current draw to be sure it does not exceed that rating listed in the Operating Specifications Chart in this manual.

The unit is now ready for operation.



For identification of Items N to T see the detailed sketch on Page 1.

■ PARTS LIST – VIBRATORY PARTS FEEDER MODEL: EB-252-A

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Part No.</u>
A	Crossarm (CW)	] 1	D-215405-2
	Crossarm (CCW)	] Only	D-215405-3
	▲ Adapter Ring (36" Aluminum Bowl)	1	A-182984
	▲ Adapter Ring (30" Aluminum Bowl)	1	A-211519-A
B	▲ Bowl Mounting Clamp	4	B-182738
	Cap Screw, Hex Hd, Gr 8 (1/2" – 13 x 2-3/4")	4	H0319809
D	Armature Assembly	2	B-215420-A
E	Cap Screw, Hex Hd, Gr 8 (1/2" – 13 x 1-1/4")	4	H0319809
	Plain Washer (1/2"), Heavy Hdn.	4	H0117312
G	Top Cable Plate	1	A-182739-A
	Self-Tapping Screw, Hex Hd (#10 – 32 x 1/2")	2	H0418413
H	Cap Screw, Hex Hd, Gr 5 (1/2" – 13 x 1")	4	H0323809
	Plain Washer (1/2")	2	H0117312
J	• Magnet Assembly (115V/60 Hz) }	]	D-215501-K
	• Magnet Assembly (208V/60 Hz) }	]	D-215501-L
	• Magnet Assembly (230V/60 Hz) }	]	D-215501-M
	• Magnet Assembly (460V/60 Hz) }	]	D-215501-N
	• Magnet Assembly (575V/60 Hz) } RC	]	D-215501-P
	• Magnet Assembly (110V/50 Hz) }	]	D-215501-Q
	• Magnet Assembly (220V/50 Hz) }	]	D-215501-R
	• Magnet Assembly (380V/50 Hz) }	]	D-215501-S
	• Magnet Assembly (208V/60 Hz) }	]	D-215501-C
	• Magnet Assembly (230V/60 Hz) }	]	D-215501-D
	• Magnet Assembly (460V/60 Hz) } AC	]	D-215501-E
	• Magnet Assembly (575V/60 Hz) }	]	D-215501-F
	• Magnet Assembly (220V/50 Hz) }	]	D-215501-H
	• Magnet Assembly (380V/50 Hz) }	]	D-215501-J
K	Insulator	2	A-215505-1
N	• Spacer	]	A-182648-E
P	• Spring (1/8" Tk.)	]	B-182548-X
	• Spring (3/16" Tk.)	]	As
	• Spring (1/4" Tk.)	]	Req'd
	• Spring (5/16" Tk.)	]	B-182548-R
	• Spring (1/2" Tk.)	]	A-182548-Q
	• Spring (5/8" Tk.)	]	B-182548-T
	• Spring (5/8" Tk.)	]	A-182548-V
Q	Wedge (5°)	]	B-182647-E
R	Clamp Block (20° Spring Angle only)	8	A-182649-E
S	• Cap Screw, Hex Hd, Gr 8	]	B-182949-C
	(3/4" – 10 x 2-1/4")	]	B-182949-H
	(3/4" – 10 x 2-1/2")	]	As
	(3/4" – 10 x 2-3/4")	]	Req'd
	(3/4" – 10 x 3")	]	B-182949-B
	(3/4" – 10 x 3-1/4")	]	B-182949-J
	(3/4" – 10 x 3-1/2")	]	B-182949-D
T	Wedge (10°)	]	A-205782-3
W	Isolator and Locating Foot	4	B-215358-A
	Hex Jam Nut (3/4" – 10)	4	H0105404
X	Bottom Cable Plate	1	A-182739-B
	Self-Tapping Screw, Hex Hd (#10 – 32 x 1/2")	2	H0418413
Y	■ Warning Label	1	A-125694
Z	■ Nameplate	1	B-221146

Parts List continued on next page.

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■ PARTS LIST (Cont'd)

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Part No.</u>
AA	Base (CW)] 1	D-215413-2
	Base (CCW)] Only	D-215413-3
BB	Rd Hd, Slotted Screw, Br (#10 – 32 x 1/2")	1	H0203402
	Plain Washer, Br (#10)	1	H0116205
CC	■ Torque Label	1	A-183183
DD	Wire Connector	4	0202X040
EE	Strain Relief Bushing	1	0230X018
	Cable Assembly	1	B-182946-C
FF	■ Stroke Gauge	1	A-58462
GG	Strain Relief Bushing (Right Angle)	2	0230X013

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

■ OPERATING SPECIFICATIONS

		Voltages							
RC	Recommended Static Air Gap	115/60	208/60	230/60	460/60	575/60	110/50	220/50	380/50
		0.083" (2.11 mm)				0.094" (2.39 mm)			
	Current Draw (Amps)	13.5	7.5	6.8	3.4	2.7	11.3	5.7	3.3
AC	Recommended Static Air Gap	0.03" (.76 mm)				0.048" (1.22 mm)			
		N/A	19.9	18.0	9.0	7.2	N/A	15.3	8.8
	Current Draw (Amps)	N/A	19.9	18.0	9.0	7.2	N/A	15.3	8.8

Note: Air gaps are given as a starting point and should be adjusted as required to obtain optimum performance.

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