

Syntron[®] Vibratory Parts Feeder Drive

Model: EB-322-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.

Date Purchased: _____ Serial No.: _____ Factory Order No.: _____

■ SAFETY INFORMATION



WARNING: These instructions and safety precautions must be followed. There is hazard of electrical shock to the operator.



WARNING: The unit must be properly grounded and verified at installation.

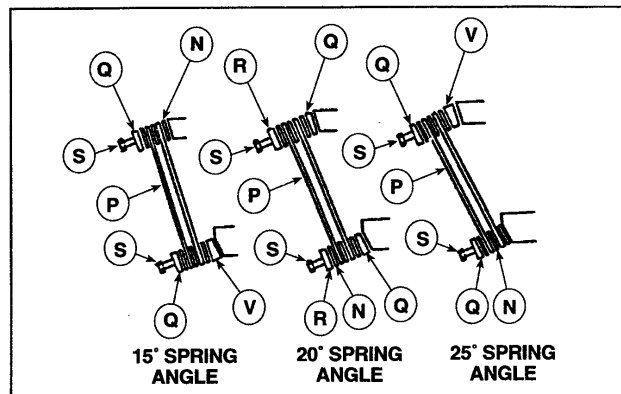
NOTE: Local safety codes and regulations must be considered when installing and/or operating this equipment.



WARNING: The electrical power supply connection to the Homer City Automation-supplied unit must be made through a customer-supplied safety disconnect switch mounted next to the control. Incorporation of an emergency stop may also be required, per local codes.

■ 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.

NOTE: The EB-322-A Parts Feeder Drive has four dual 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).



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.

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.

To replace or rebuild the spring stacks, perform the following steps. (Refer to the illustration on page 1).

1. Remove the clamp bolts (**S**), clamp blocks (**R**), wedges (**Q,V**), spacers (**N**), and leaf springs (**P**).
NOTE: 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.
2. Examine each leaf spring, one at a time, for signs of fatigue or defects (breaks, hairline fractures, rust, etc.).
3. When rebuilding a spring stack, each spring (**P**) must be isolated by spring spacers (**N**) at both the top and bottom. Check that the springs are in their correct locations.
4. When all the 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.
5. Torque each clamp bolt (**S**) evenly, a little at a time, to the recommended torque of 250 ft lb (340 Nm). Used bolts may require higher torque, not to exceed 340 ft lb (462 Nm).
6. Reconnect the electrical supply, and check and readjust the air gap, if necessary (refer to the instructions in the EB-A Service Manual SM0655). Check the current draw to be sure that it does not exceed the rating listed in the specifications chart below.

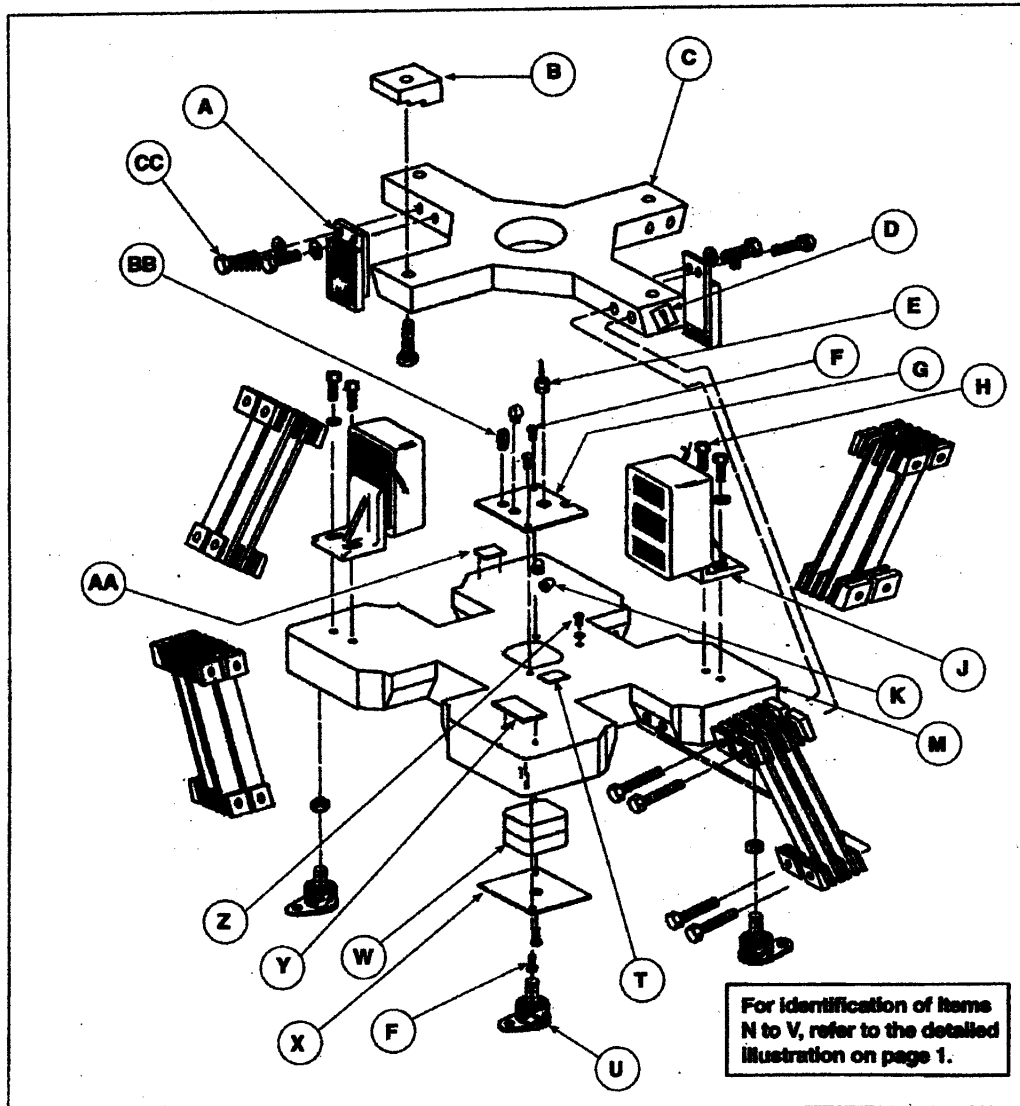
The unit is now ready for operation.

■ OPERATING SPECIFICATIONS

		Voltages					
		208/60	230/60	460/60	575/60	220/50	380/50
RC	Recommended Static Air Gap	0.070" (1.78 mm)			0.08" (2.03 mm)		
	Current Draw (Amps)	14.8	13.4	6.7	5.3	12.75	7.42

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

■ PARTS LIST – VIBRATORY PARTS FEEDER MODEL: EB-322-A



<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Part No.</u>
A	Armature Assembly	2	B-215422-A
B	▲ Bowl Mounting Clamp	4	A-125769
	▲ Cap Screw, Hex Hd, Gr 8 (1/2" – 13 x 2-3/4")	4	H0303509
C	Crossarm (CW)] 1	D-215406-2
	Crossarm (CCW)] Only
D	■ Stroke Gauge	1	A-58462
E	Strain Relief Bushing	1	0230X018
	Power Cable Assembly	1	B-182946-C
F	Self-Tapping Screw, Hex Hd, Slotted (#10 – 32 x 1/2")	4	H0418413
G	Top Cable Plate	1	A-182739-A
H	Cap Screw, Hex Hd, Gr 8 (1/2" – 13 x 1")	4	H0323809
	Plain Washer (1/2")	4	H0117312

Parts List continued on next page.

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■ PARTS LIST – EB-322A PARTS FEEDER (Cont'd)

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Part No.</u>
J	• Magnet Assembly (208V/60 Hz) } • Magnet Assembly (230V/60 Hz) } • Magnet Assembly (460V/60 Hz) } • Magnet Assembly (575V/60 Hz) } RC • Magnet Assembly (220V/50 Hz) } • Magnet Assembly (380V/50 Hz) }	2 Only	D-215502-C D-215502-D D-215502-E D-215502-F D-215502-H D-215502-J
K	Wire Connector	2	0202X040
M	• Base (CW) • Base (CCW)] 1] Only	D-215414-2 D-215414-3
N	• Spacer]]	A-182648-E
P	• Spring (1/8" Tk.) • Spring (3/16" Tk.) • Spring (1/4" Tk.) • Spring (5/16" Tk.)] As] Req'd]]	B-182548-Z B-182548-Y B-182548-AA B-182548-BB
Q	• Wedge (5°)	32	A-182647-F
R	• Clamp Block	16	A-182649-E
S	• Cap Screw, Hex Hd, Gr 8 (3/4" – 10 x 3") • Cap Screw, Hex Hd, Gr 8 (3/4" – 10 x 3-1/2") • Cap Screw, Hex Hd, Gr 8 (3/4" – 10 x 4") • Cap Screw, Hex Hd, Gr 8 (3/4" – 10 x 4-1/2")]]] As] Req'd]]	B-182949-B B-182949-D B-182949-E B-182949-F
T	■ Warning Label	1	A-125694
U	• Isolator and Locating Foot Hex Jam Nut (3/4" – 10)	8 8	B-215358-A H0105404
V	• Wedge (10°)	16	A-205782-2
W	Insulator	2	A-215505-1
X	Bottom Cable Plate Self-Tap Hex Hd Screw, Slotted (#10 – 32 x 1/2")	1 2	A-182739-B H0418413
Y	■ Nameplate Drive Screw, Type U (#2 x 1/4")	1 2	A-48808 H0413000
Z	Rd Hd Screw, Slotted, Br (#10 – 32 x 1/2") Plain Washer, Br (#10)	1 1	H0418413 H0116205
AA	■ Torque Label	1	A-183183
BB	Strain Relief Bushing, Right Angle	2	0230X013
CC	Cap Screw, Hex Hd, Gr 8 (1/2" – 13 x 1-1/2") Plain Washer (1/2")	4 4	H0319809 H0117312

- 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 for an additional supply free of charge.

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