

Service Instructions

Syntron®
Electromagnetic
Vibrating Table
Model: VP-51-D1
VP-86-D1
VP-181-D1
VP-500

Service Instructions

Syntron® Electromagnetic Vibrating Table

Models: VP-51-D1
VP-86-D1
VP-181-D1
VP-500

INTRODUCTION

Syntron® Electromagnetic Vibrating Tables are designed to settle and compact dry bulk materials in various types of containers. Table applications provide either an increase in the net weight of the container or reduction in the container size.

The drive assembly is a Syntron® vibrator, which is attached to the underside of the top plate. Vibration dampers are used between the top plate and frame to isolate the vibrating action from the support structure. Models VP-51, -86 and -181 also have dampers on the bottom of the frame. The VP-500 uses a rigid frame.

The table operates with a straight line vibratory motion (3600 vibrations per minute) which causes the material to settle. The amplitude of vibration can be regulated by the controller.

Separate service instructions are provided for the vibrator and controller. Refer also to those instructions prior to installing and operating the vibrating table and controller.

The vibrating table requires a solid and level area of support. Refer to Tables 1 and 2 for outline dimensions.

The table must be securely bolted in its operating position. Bolt holes are provided.

The vibrating table assembly must not contact any object that will hamper its vibrating action. Clearance must be maintained all around.

After referring to the wiring diagram for the controller, make all connections between the vibrator and controller. Connect the power supply to the terminals in the controller.



WARNING: The power supply voltage and frequency must correspond to name plate ratings, and the unit must be properly grounded.

INSTALLATION

When received, uncrate the vibrating table and give a thorough visual inspection to reveal any damage that may have occurred during shipment. If damage is found, at once contact the carrier and your Syntron Material Handling sales representative.

The vibrator and controller must be properly grounded. Do not ground the controller or the vibrator to the table.

OPERATION

To operate the vibrating table, place the switch on the front of the controller in the “ON” position. The top plate of the table will begin vibrating in a straight line vertical pattern. The amplitude of vibration can be varied by rotating the rheostat knob on the front of the controller.

Putting the controller switch in the “OFF” position will stop operation of the table.



WARNING: While in operation, the controller must be kept closed and secured.

During normal operation, the vibrator should operate with a smooth uniform stroke. If a loud hammering noise is heard, the vibrator is striking and it should immediately be turned off. Refer to the vibrator service manual for instructions to correct a striking condition.

MAINTENANCE

Little maintenance is required to keep the vibrating table operating efficiently. Periodically check bolts for tightness. Examine the rubber components of the vibration dampers for defects or signs of excessive wear.

Refer to the vibrator and controller instructions for further maintenance information.

TROUBLE SHOOTING

TROUBLE	CAUSE	CORRECTION
Lack of vibration on top plate	Defective damper Loose hardware Table in contact with rigid object	*Replace Tighten Isolate

*Replace with parts supplied, or recommended, by Syntron Material Handling.

Refer to the vibrator and controller instructions for further trouble shooting information.

	A	B	C	D	E	F	G	H	I	J
VP-51-D1	17"	19"	1"	20" SQ.	10"	13/32"	3 9/16"	11 1/16"	19"	13/32"
VP-86-D1	23"	27"	2"	30" SQ.	15"	13/32"	3 9/16"	21 7/16"	29 3/8"	13/32"
VP-181-C1	23"	27"	2"	30" SQ.	21"	3/8"	3 9/16"	21 1/2"	29 3/8"	13/32"

Table 1 – MOUNTING DIMENSIONS – Models: VP-51, -86, -181
PARTS LIST - ELECTROMAGNETIC VIBRATION TABLES
MODELS: VP-51-D1, VP-86-D1, VP-181-D1

ITEM	DESCRIPTION	VP-51-D1		VP-86-D1		VP-181-D1	
		QTY.	PART NO.	QTY.	PART NO.	QTY.	PART NO.
1	Top Plate	1	A-123033	1	D-214558-C	1	D-214640-C
2	Vibration Damper (Top)	4	A-12922	8	A-14603	8	A-14603
					●A-14603-001		●A-14603-001
					●A-12922		●A-12922
3	Cap Screw, Fl. Hd. (3/8"-16 x 1")	4	H0437400	16	H0437400	16	H0437400
	Lockwasher (3/8")	4	H0113201	16	H0113201	16	H0113201
	Hex Nut (3/8"-16)	4	H0103001	16	H0103001	16	H0103001
4	Cap Screw, Hex Hd. (3/8"-16 x 1")	4	H0310201	16	H0310201	16	H0310201
	Lockwasher (3/8)	4	H0113201	16	H0113201	16	H0113201
	Hex Nut (3/8"-16)	4	H0103001	16	H0103001	16	H0103001
5	Cap Screw, Hex Hd. (3/8"-16" x 5/8")	4	H0309901	-	-	-	-
	Lock Washer (3/8")	4	H0113201	-	-	-	-
6	Frame Assembly	1	B-25844	1	B-14601	1	B-16051
	■ Nameplate	1	A-120576	1	A-120576	1	A-120576
	■ Warning Label	2	A-125694	2	A-125694	2	A-125694
	■ SMH Decal	2	A-156379-C1	2	A-156379-C1	2	A-156379-C1
7	Vibrator Assembly (115V/60Cy)		-		-		-
	Vibrator Assembly (230V/60Cy)		-		-		-
	Vibrator Assembly (460V/60Cy)	Δ	-	Δ	-	Δ	-
	Vibrator Assembly (115V/50Cy)		-		-		-
	Vibrator Assembly (230V/50Cy)		-		-		-
	Vibrator Assembly (460V/50Cy)		-		-		-
8	Cap Screw, Fl. Hd. (5/8" -11 x 2 ¼ ")	2	H0437600	-	-	-	-
	Lockwasher (5/8")	2	H0113901	-	-	-	-
	Hex Nut (5/8" -11)	2	H0104801	-	-	-	-
	Cap Screw, Fl. Hd. (5/8" - 18 x 2 ¼ ")	-	-	4	H0437600	-	-
	Lockwasher (5/8")	-	-	4	H0113901	-	-
	Hex Nut (5/8" - 18)	-	-	4	H0105001	-	-
	Cap Screw, Fl. Hd. (3/4" - 10 x 2")	-	-	-	-	4	H0442200
	Lockwasher (3/4")	-	-	-	-	4	H0114101
	Hex Nuts (3/4" - 10)	-	-	-	-	4	H0105401
9	Vibration Damper (Bottom)	4	A-12922	4	A-14602	4	A-21953
	Cap Screw, Hex Hd. (3/8"-16 x 1")	4	H0310201	8	H0310201	8	H0310201
	Lockwasher (3/8")	4	H0113201	8	H0113201	8	H0113201
	Hex Nut (3/8" - 16)	4	H0103001	8	H0103001	8	H0103001

Δ When ordering these parts, please provide all information from the equipment nameplate.

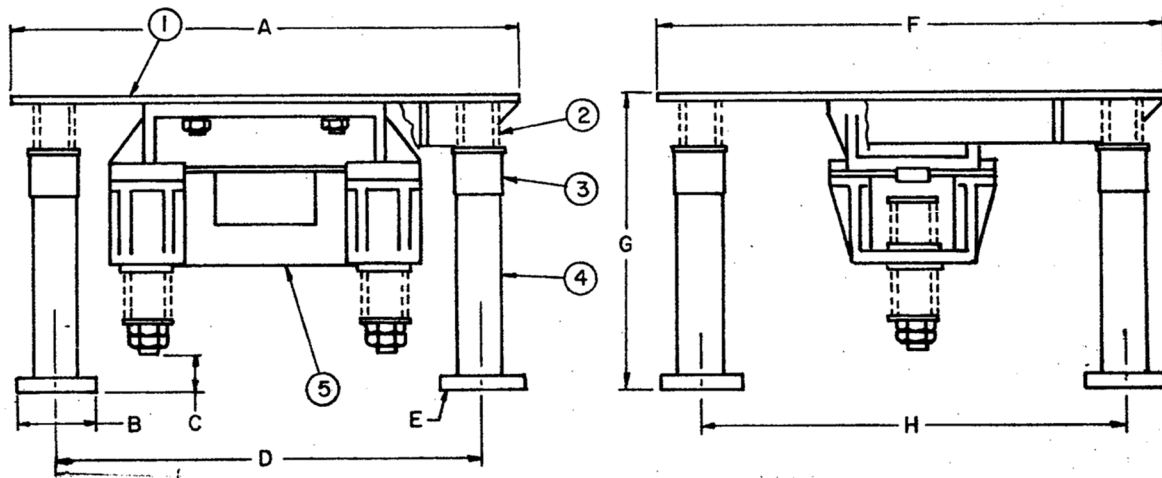
■ Do not remove or paint over safety labels. Should safety labels require replacement, contact Syntron Material Handling, LLC, at (662) 869-5711 for an additional supply free of charge.

• Due to individual tuning requirements, 5" dampeners (P/N A-14603-001) or 2" dampeners (P/N A-12922) may have been installed in addition to the standard 6" dampeners (P/N A-14603). Measure the length of the vibration dampeners before ordering replacements.

	A	B	C	D	E	F	G	H
VP-500	40"	7 ¾" O.D.	3 ¼" ABT.	32"	*7/8" DIA.	32"	27 ¾" ABT.	34 ½"

*5 HOLES EQUALLY SPACED ON 6¼" B.C.

Table 2 - MOUNTING DIMENSIONS - Model: VP-500



**PARTS LIST – ELECTROMAGNETIC VIBRATING TABLES
MODEL: VP-500**

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>PART NO.</u>
1	Top Plate	1	B-26509
	Nameplate	1	A-120576
	SMH Decal	2	A-156379-C1
	Lockwasher (1½")	4	H0114701
	Hex Nut (1½" -6)	4	H0107801
2		4	A-19303
3	Cap	4	A-79027
4	Support	4	C-207978-A
5	Vibrator Assembly (230V/60Cy)		
	Vibrator Assembly (460V/60Cy)		
	Vibrator Assembly (230V/50Cy)		

Δ When ordering these parts, please provide all information from the equipment nameplate.

■ Do not remove or paint over safety labels. Should safety labels require replacement, contact Syntron Material Handling, LLC at (662) 869-5711 for an additional supply free of charge.

Important

Syntron Material Handling, LLC reserves the right to alter at any time, without notice and without liability or other obligations on its part, materials, equipment specifications, and models. Syntron Material Handling also reserves the right to discontinue the manufacture of models, parts, and components thereof.

Your satisfaction is very important to us. Please direct any comments, questions, or concerns to our Marketing Communications Department.

Syntron Material Handling

Corporate Office

P.O. Box 1370

Tupelo, Mississippi 38802

Phone: 662.869.5711

Fax: 662.869.7449

Form No. SM0409120214 Printed in U.S.A

Syntron®
Link-Belt®

Tupelo

2730 Hwy 145 South
Saltillo, Mississippi 38866

Phone: 662.869.5711

Fax: 662.869.7493

Toll Free: 800.356.4898

info@syntronmh.com

Changshu

#2 Road No. 1

Changshu Export Processing Zone
Changshu, Jiangsu, China 215513

Phone: +86 0512.52299002

Fax: +86 0512.52297228

info@syntronmh.com