

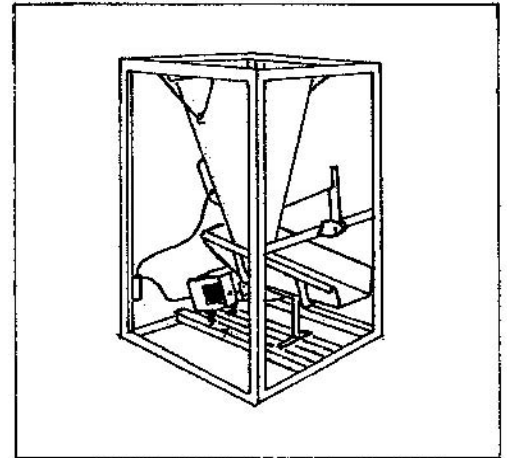
Service Instructions

Syntron®
Feeder Machine
Model: FM Series
CFM Series



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Models: FM Series CFM Series



INTRODUCTION

Syntron® Feeder Machines provide an effective method storing and feeding bulk material. Syntron Feeder Machines consist of a supply hopper, vibrator, electromagnetic feeder and controller. Model CFM Feeder Machine units are the same, enclosed in a cabinet.


INSTALLATION


The Feeder Machine should be carefully uncrated and inspected for possible damage that may have occurred during shipment. If damaged, contact the carrier and your Syntron Material Handling representative immediately.

When in its operating position it is important that the vibrating components of the machine (feeder, hopper and vibrator) do not come in contact with any rigid objects. The equipment must be free to vibrate. Syntron Material Handling recommends a minimum 1" clearance between the feeder machine and adjacent objects.


The separate controller assembly should be installed as close to the feeder machine as possible. Installation on a wall in a clean, dry location, free from excessive vibration is recommended.

If possible, install the controller at a location where it will receive adequate ventilation. This will prolong component life.


 **NOTE:** The power supply voltage and frequency must be as specified on the controller nameplate. The line conductor and conductor between the feeder machine and separate controller must be of a size sufficient to carry the current and voltage as stamped on the nameplate. The wiring connections between the feeder machine, controller and power supply must be made and in accordance with the wiring diagram furnished with the controller.

 **WARNING:** Be certain the equipment is properly grounded!

OPERATION

 **NOTE:** Before attempting to operate the Feeder Machine read the accompanying manuals concerning the vibrator, feeder, and controller.

The information in these manuals is very important to the operation and maintenance of the feeder machine.

 **CAUTION:** Unauthorized modification of feeder machine or use of unauthorized replacement parts may damage feeder machine.

Syntron Material Handling will not assume responsibility for feeder machine performance as a result of any unauthorized alterations to the equipment. Consult Syntron Material Handling, Material Handling Solutions before modifying your feeder machine.

With the feeder machine and controller properly installed and all wiring completed, the equipment is now ready for operation.



WARNING: While the equipment is in operation, the controller door must be kept closed!

The flow of material in the feeder trough is controlled by the rheostat and switch (labeled "Feeder") on the front of the controller. The switch in the "ON" position will supply current to the feeder. Clockwise rotation of the rheostat knob will increase the feed rate, counterclockwise rotation will decrease feed rate.

The vibrator is controlled by the switch and rheostat (labeled "Hopper") on the front of the controller. The switch in the "ON" position will supply current to the feeder. Clockwise rotation of the rheostat knob will increase the vibrator output while counterclockwise rotation will decrease vibrator output. Do not operate the vibrator unless the feeder is in operation. Otherwise the contents of the hopper may be packed. The material flow from the hopper to the feeder trough is regulated by a mechanical adjustment located on the side of the frame nearest the discharge end of the feeder. The adjustment screw is located on the opposite side of Model FM-TO-C-3/4 Feeder machines. This adjustment varies the opening of the hopper by tilting it either forward or back.

Fill the hopper with the material to be handled, not more than a 24 hour supply of material should be placed in the hopper at one time.

At initial start-up turn rheostats (counterclockwise) to a low setting and turn switches to "ON" position. While operating check all hardware to be sure it is tight and secure. While operating, the vibrator and feeder should emit nothing more than a humming noise.



NOTE: A loud rapping noise is caused by the magnet and armature assemblies coming in contact, Immediately turn the switches "OFF". Continued operation could cause serious damage to the unit. Instructions to correct "striking" condition are included in the service instructions for either the vibrator or feeder.

FOR MAXIMUM FEED – Tilt the hopper forward until the trough fills. Do not tilt the hopper forward, past the point where the tilting arm strikes the frame. Do not let the material flow over the sides of the trough. Increase the feeder rheostat setting and adjust the vibrator to keep the material flowing from the hopper at a sufficient rate.

FOR MINIMUM FEED – Position the hopper back till the flow of material from the hopper is at a minimum. Do not operate feeder machine with the hopper striking the feeder trough. Adjust the vibrator and feeder rheostats until the desired feed rate is obtained.

MAINTENANCE

Little maintenance is required for Syntron Material Handling Feeder Machines.

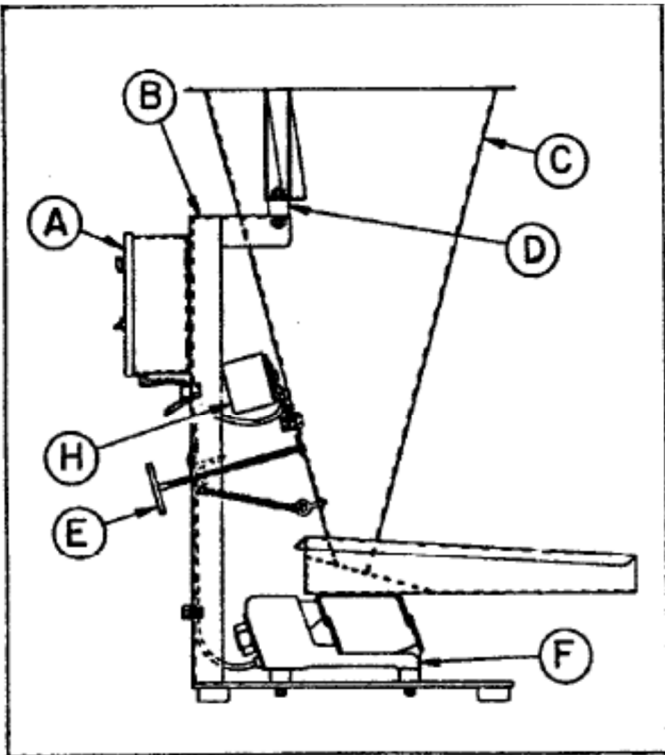
It is important the machine be kept clean. The unit should be cleaned daily, especially material deposits

in the areas of the hopper opening and the feeder trough. Material build-up will hamper flow from the hopper and the weight of the material deposits will alter the tuning of the feeder.

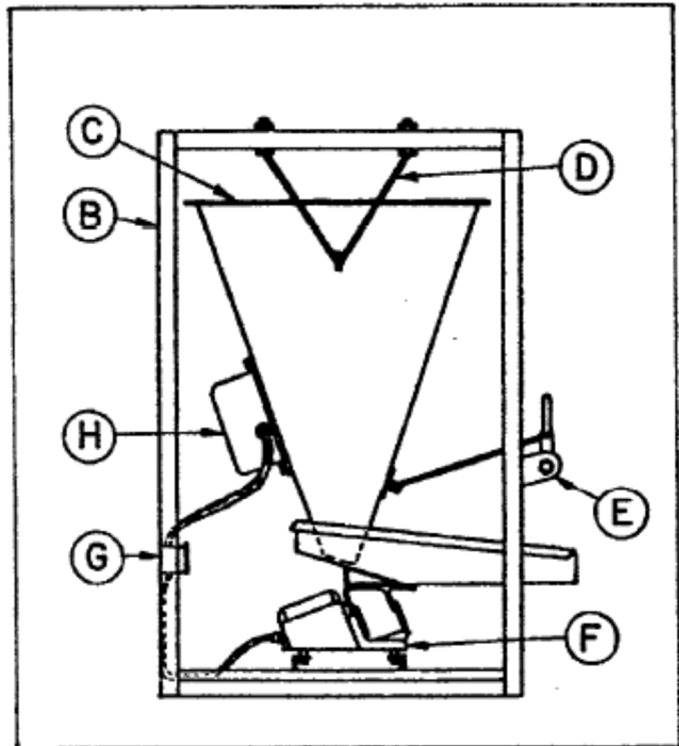
Refer to the manuals for the feeder, vibrator and controller for trouble shooting of problems in operating the Feeder Machine.

PARTS LIST

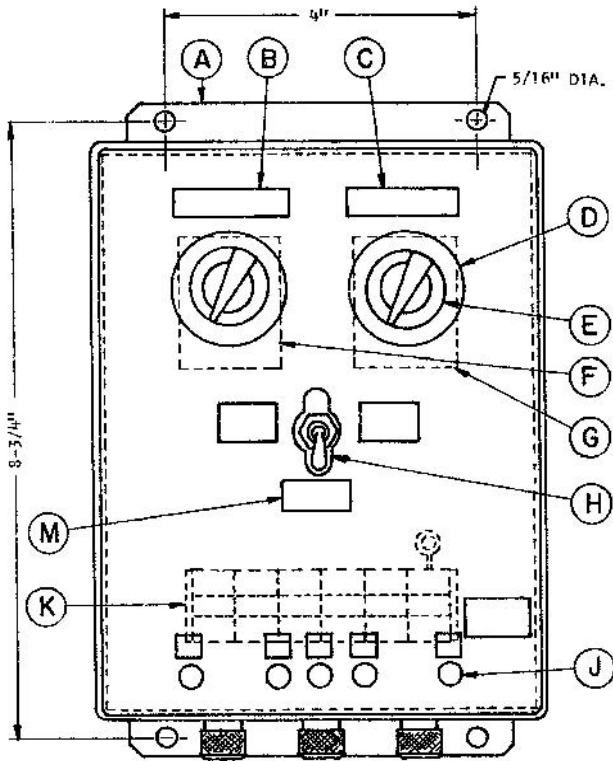
ITEM	DESCRIPTION
A	CSMH Controller
B	Frame Assembly
C	Hopper Assembly
D	Hopper Support
E	Hopper Adjustment Assembly
F	Drive Assembly
G	Junction Box
H	Vibrator, V-2-FM-TOC-3/4 V-4-FM-T01-B-3 V-20-FM-010-B-3 BFM-01-C-3 FM-152-A-3 FM-212-B-3



FM-TOC-3/4



FM-010-B-3
FM-T01-A-1
BFM-01-C-3
FM-152-A-3 & FM-212-B-3



PARTS LIST – CSMH CONTROL ASSEMBLY

ITEM	DESCRIPTION	QTY	PART NO.
A	Box Assembly	1	-----
B	Feeder Name Plate	1	C-204201-26
C	Hopper Name Plate	1	C-204201-42
D	Dial	2	B-87522-A
E	Knob	2	0118X010
F	SCR Assembly (115v)	2	C-179502-A
	SCR Assembly (230v)	2	C-221016-C
*G	Triac Control (115v)	1	C-179504-A
	Triac Control (230v)	1	C-221035-C
H	Switch	1	0051X186
	Switch Boot	1	0038X314
J	Fuse Block As ----- Fuse Holder Req'd -----		
K	Terminal Block	6	0173X081
	Terminal Block End Plate	1	0173X063
M	Name Plate	1	A-61713

* Used on models CSMH-T0-C, CSMH-T01-A and CSMH-01-C only.

MAXIMUM CURRENT RATINGS:

Equipment	Max. Current Rating (Amps)	
	115V	230V
FM-TOC-3/4	5	5
FM-T01-A-1	5	5
FM-010-B-3	5	5
BFM-01-C-3	5	5
FM-152-A-3	5	5
FM-212-B-3	5	5

Important

Syntron Material Handling 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.

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