

# Electromagnetic Feeder Syntron ® Model: BF-2

## Guide for Strip Repositioning List of Materials. Model: BF-2 and Specifications “CE” Conformity Declaration

### Guide for Strip Repositioning



**PRECAUTION:** Disconnect electrical power to the equipment using the earth differential breaker.

If the elastic strip system requires dismounting, remake or replace a set or packet of strips before continuing with the following. This allows the remaining sets to be used as a support for the tray and base on which the tray is fixed.

Suitable placement of the parts which make up the sets of vibrating strips is of prime importance for correct feeder operation. When these sets are dismounted, it is necessary to accurately note their arrangement, so that they may be replaced with full confidence of correct positioning.

The number of elastic strips and their thickness varies depending on the tray size, power supply voltage and operating frequency. It is important for the strip replacements to be suitable for the equipment. Each strip should be carefully examined and any broken ones or those showing signs of cracking should be replaced.

However, it is recommended that the entire set of strips be replaced, instead of just the defective ones.

The nuts and bolts used to hold the strip sets in place should be secured using the torque levels which are given in the specifications.

The strips are correctly assembled when there is no stress or distortion.

After replacing or remaking the strip sets, it is possible that the equipment's air gap requires readjustment. Details of this operation are given in the Instruction Manual for these feeders (Model: Series “BF”).

Once this adjustment has been correctly performed, the feeder is ready for operation.

After several hours of operation, the torque for the nuts and bolts used to hold the elastic strips in place should be rechecked. The settling of the sets or packets of strips could cause a reduction in the strip set compression, which in turn, could lead to alterations in feeder operation.

**List of Materials. Model: BF-2**

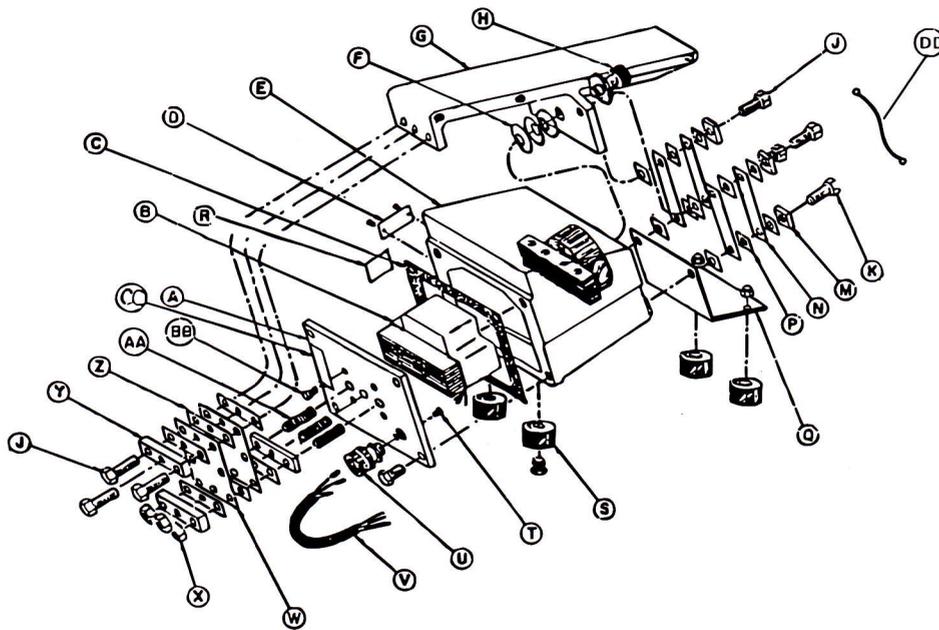
ITEM	DESCRIPTION	QUAN.	REFERENCE
A	Back plate	1	B-152538
	Cap screw exg. M 10 X 25 DIN 933		
B	Magnet assembly (at 115 V. 50 Hz)	1	B-155876-AT
	Magnet assembly (at 220 V. 50 Hz)	1	B-155876-BT
	Magnet assembly (at 380 V. 50 Hz)	1	B-155876-CT
C	Gasket	1	A-122625
D	Name plate	1	A.61713/2
E	Armature & base assembly	1	B-115905
F	Disc spring 14,2 x 28 x 1,5 Type A DIN. 2093	3	
G	Trough mounting bracket	1	C-115873
H	Air gap adjustment screw	1	X-34398-A
	Plain washer Ø = 12 DIN 127	1	
J	Cap screw exg. M 10 X 30 DIN 933	4	
K	Cap screw exg. M 10 X 40 DIN 933	3	
M	Front spring clamp	4	A-115888
N	Front spring	S/A	A-115884-A1
	Front spring	S/A	A-115884-B1
	Front spring	S/A	A-115884-C1
P	Front spring spacer	S/A	A-115887
Q	Foot mounting bracket	1	A-115876
R	Label (Adjuntment)	1	A-195774
S	Rubber Foot	4	X-30477-4
T	March screw M 4 X 10 DIN 86	1	
U	Cable Grip	1	ST-11
V	Cable assembly		
W	Rear spring	S/A	A-66201-A1
	Rear spring	S/A	A-66201-B1
	Rear spring	S/A	A-66201-C1
X	Hex nut M 10 DIN 934	3	
Y	Rear spring seat & clamp	3	A-115885
Z	Rear spring spacer	S/A	A-115886
AA	Stud	3	A-115938
BB	Cap screw M 8 X 20 (12 K) DIN 7991	4	
CC	Label (Caution)	1	A-125694

Note: Some of the indicated materials and quantities on this list may vary depending on the exact application for which the equipment is used.

When parts are ordered, please state all the data given on the specifications plate.

TARNOS reserves the right to modify, at any time, without prior notification, or any other obligation, the materials, models, equipment and specifications, or to cease production of them or their components.

## Model BF-2 (Assembly)



## Operating Specifications

MAXIMUM TROUGH WEIGHT:	9 kg
MINIMUM TROUGH WEIGHT:	5,5 kg
TROUGH STROKE AMPLITUDE	1.3 to 1.5 mm (6,8-9 kg tray)
	1.8 mm (5,5 to 6,3 kg tray)
MINIMUM NATURAL FREQUENCY:	3.250 R.P.M.
MAXIMUM CURRENT RATING:	2,2 Amps at 220 V 50 Hz
(Specifications plate)	

## Torque specifications

ITEM	TORQUE(KG/METRE)	
	<u>DRY</u>	<u>LUBRICATED</u>
A, J, K, X.....	4,04	3,06
BB.....	3,47	2,55

## Checking feeder current

When checking feeder current with a tong meter, the meter reading must always be multiplied by a value of 1,7 A tong meter does not reveal the same current as designated on the equipment name plate due to the waveform characteristics of the feeder, when operating. Therefore, the 1,7 multiplier must be used.