



ASTRO

ABF-50 Belt Feeder



Operator Manual

SAFETY PRECAUTIONS

THIS EQUIPMENT PRESENTS NO PROBLEM WHEN USED PROPERLY. OBSERVE SAFETY RULES WHEN OPERATING THE ABF-50 FEEDER

BEFORE USING FEEDER, READ THIS MANUAL CAREFULLY AND FOLLOW RECOMMENDED PROCEDURES, SAFETY WARNINGS, AND INSTRUCTIONS:

- ✓ Keep hands, hair, and clothing clear of rollers and other moving parts.
- ✓ Avoid touching moving parts or materials while the machine is in use. Before clearing a jam, be sure machine mechanisms come to a stop.
- ✓ Always turn off the machine before making adjustments, cleaning the machine, or performing any maintenance covered in this manual.
- ✓ Use the power cord supplied with the machine. Plug it into a properly grounded, easily accessible wall outlet located near the machine. Failure to properly ground the machine can result in severe personal injury and/or fire.
- ✓ Power cord and wall plug are the primary means of disconnecting machine from power supply.
- ✓ **DO NOT** use an adapter plug on the line cord or wall outlet.
- ✓ **DO NOT** remove the ground pin from the line cord.
- ✓ **DO NOT** route the power cord over sharp edges or trap it between furniture.
- ✓ Avoid using wall outlets that are controlled by wall switches, or shared with other equipment.
- ✓ Make sure there is no strain on the power cord caused by jamming between equipment, walls or furniture.
- ✓ **DO NOT** remove covers. Covers enclose hazardous parts that should only be accessed by a qualified service representative. Report any cover damage to your service representative.
- ✓ This machine requires periodic maintenance. Contact your authorized service representative for required service schedules.
- ✓ To prevent overheating, do not cover the vent openings.
- ✓ Use this equipment only for its intended purpose.

In addition, follow any specific occupational safety and health standards for your workplace or area.

This manual is intended solely for the use and information of Astro Machine Corp., its designated agents, customers, and their employees. The information in this guide was obtained from several different sources that are deemed reliable by all industry standards. To the best of our knowledge, that information is accurate in all respects. However, neither Astro Machine Corp. nor any of its agents or employees shall be responsible for any inaccuracies contained herein.

AstroJet™ is a registered trademark of Astro Machine Corp.
Hewlett-Packard is a registered trademark of Hewlett-Packard Corporation.
Windows 95 and Windows 98 are registered trademarks of Microsoft Corporation.
IBM is a registered trademark of International Business Machines.
All other trademarks are the property of their respective holders.

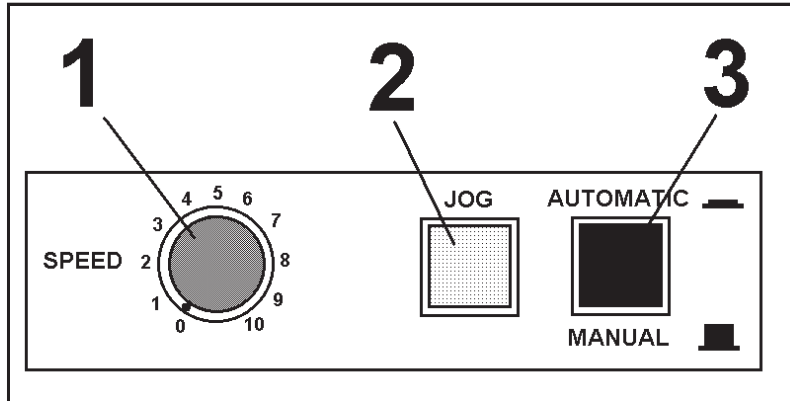
All rights reserved. No part of this book may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or any information storage and retrieval system, without permission in writing from the publisher.

Table of Contents

Getting Acquainted	1
Control Panel	1
Front Panel	1
Set-Up and Operation	2
Assembly and Installation	2
Set-Up and Operation	3
Interface Remote Operation	5

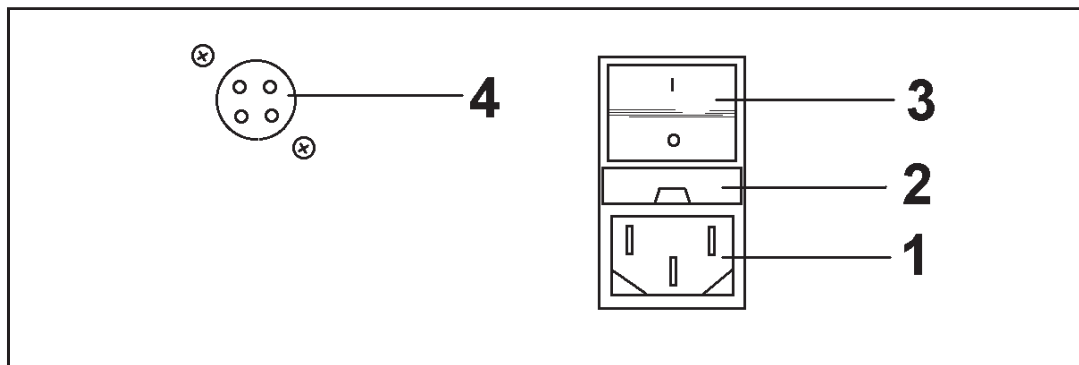
Getting Acquainted

Control Panel



1	SPEED CONTROL – Used to vary Feeder speed in Feed Select Switch is in either MANUAL or AUTOMATIC modes.
2	JOG SWITCH – Pressing this switch with Automatic/Manual Switch in AUTOMATIC makes Feeder feed paper slowly, until switch is released.
3	AUTOMATIC/MANUAL SWITCH – When switch is in MANUAL , operator can control feeding by adjusting Speed Control. When in AUTOMATIC , Interface controls feed through an external device, but Feeder speed is still controlled by Speed Control.

Front Panel



1	POWER RECEPTACLE – Plug in power cord here. Make sure power cord is only plugged into a properly grounded receptacle.
2	ON/OFF SWITCH – Controls power to Feeder.
3	FUSE HOLDER – Fuse protects Feeder electronics and motor.
4	INTERFACE CONNECTOR – Used to control feeding on the ABF-50. (See Interface Remote Operation for more information.)

Set-Up and Operation

Feeder is designed to feed material from single sheets up to 1/2" (12.7 mm) in thickness. Material size can vary from 3" L (76.2 mm) x 3" W (76.2 mm) up to 17" L (431.8 mm) x 14" W (355.6 mm). Ideal for feeding into conveyor transport systems, folding and stitching machines, packaging and inkjet applications. Manages speeds up to 40,000 pieces per hour (*depending on the size and material*).

Assembly and Installation

Unpack the Feeder, install two Side Guides (*as shown*) using two knobs supplied. Place Feeder on a flat level surface.

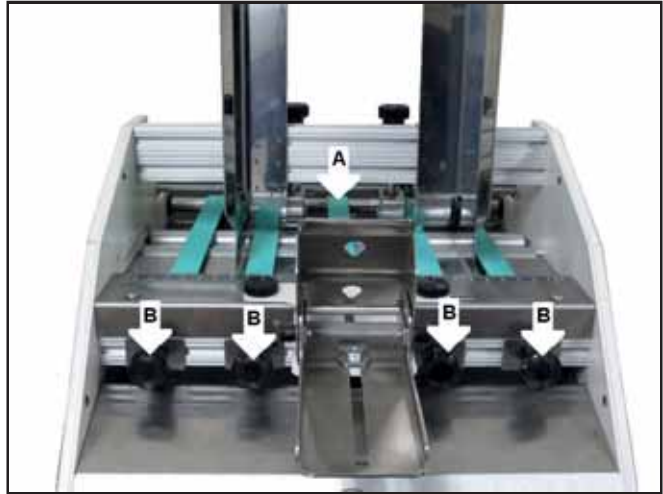
Plug Feeder into a properly grounded receptacle.

NOTE: Two versions of ABF-50 Feeder:
ABF-50 operates on 115 VAC
ABF-50E operates on 220 VAC.

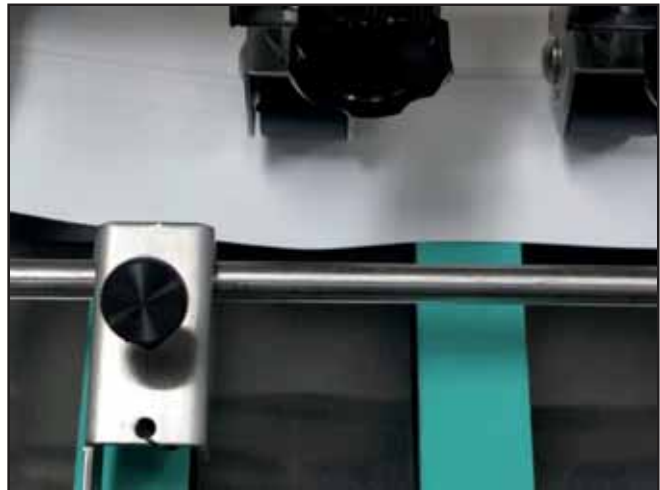


Set-Up and Operation

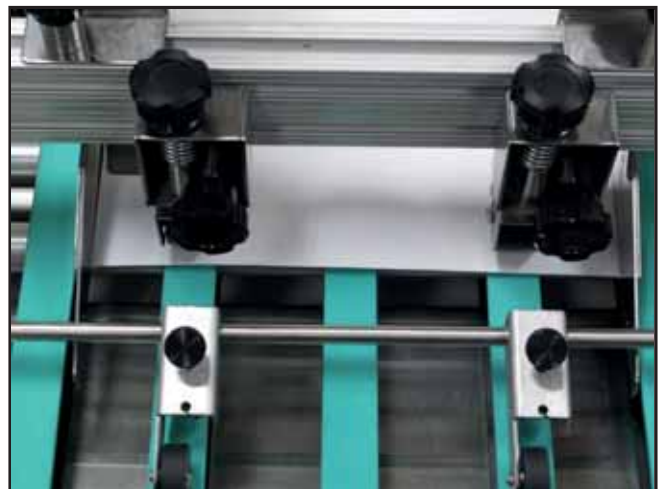
1. Feeder is equipped with five Feed Belts and two Separators. Center Belt [A] is fixed in place and cannot be moved. The other four Belts [B] and two Separators can be adjusted to accommodate various sizes of media you may feed.



2. Position of Separator with respect to Feed Belts is determined by thickness of media you feed. If media is less than 1/8" (3.175 mm) thick, then Separators should be positioned between Center Belt and two Belts on either side (*as shown*). Separator should be adjusted to apply a light amount of pressure to force media between Belts.

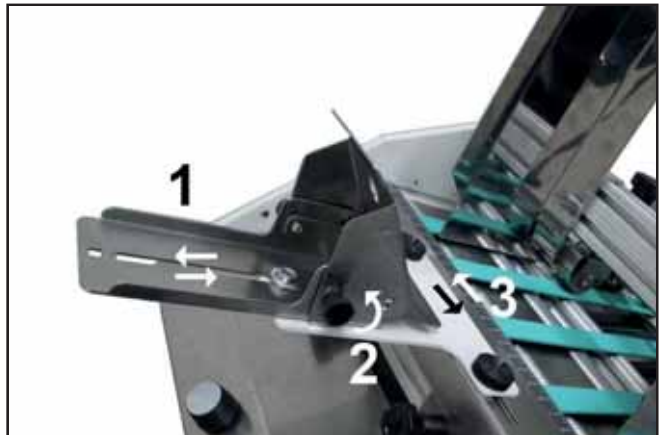


3. If feeding media over 1/8" (3.175 mm) and up to 1/2" (12.7 mm), Separators should be placed over Belts and adjusted so piece being fed clears, but next piece is held back.

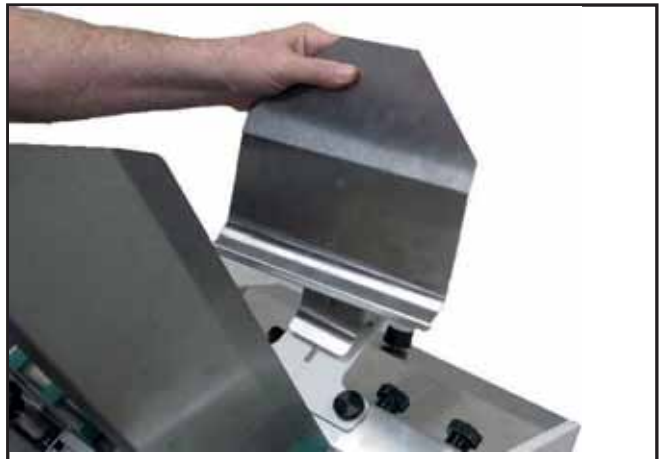


4. Rear Media Support Guide is adjustable to accommodate a wide variety of media. A knob [1] is provided to move Rear Guide front to back. Two thumbscrews [2] permit Guide to tilt and entire assembly [3] can be moved right to left. Position Guide so media is held up and against Separators.

NOTE: Single sheets require more uplift than thick media and envelopes. A little experimentation will yield the best setup for each type of media.



5. In addition to above, a Wide Media Plate is supplied to support wider media. It mounts in two slots in Rear Guide (*as shown*).



6. Place Media Side Guides to within 1/32" (1.0 mm) of media.

7. Turn Feeder power switch ON. Set AUTOMATIC/MANUAL switch to MANUAL and adjust Speed Control to feed media. Sheets should overlap 1/2" (12.7 mm) to 1" (25.4 mm) as they feed. Test feed by placing the AUTOMATIC/MANUAL Switch in AUTOMATIC and pressing JOG switch. When operating Feeder from a remote source, the AUTOMATIC/MANUAL switch should be in AUTOMATIC position (*close to run*) or MANUAL position (*open to run*).

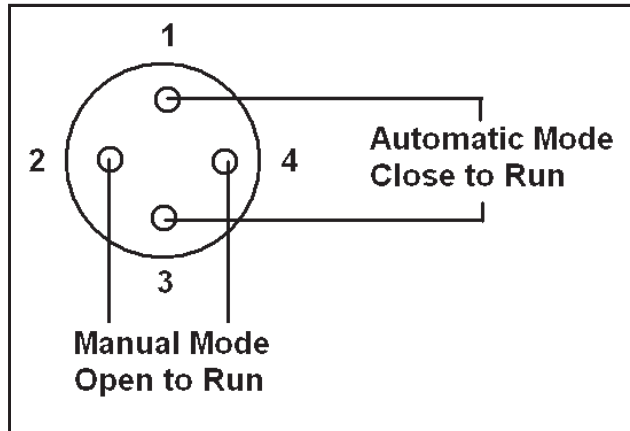


Interface Remote Operation

Feeder can also be controlled remotely. This is accomplished by connecting a normally open switch or relay contacts across connector pins 1 and 3 (*on rear of Feeder*). To operate Feeder in this mode, **AUTOMATIC/MANUAL Switch** should be in **AUTOMATIC** position. Then external switch can operate Feeder.

ABF-50 can also be operated by a remote device that closes contacts to stop Feeder. In this case, a normally closed switch or relay contacts should be connected

between pins 2 and 4 in interface connector and **AUTOMATIC/MANUAL Switch** should be set in **MANUAL** position. When external switch opens, Feeder will run.



WARNING!

WIRING FEEDER FOR AUTOMATIC OPERATION SHOULD ONLY BE DONE BY A TECHNICIAN COMPETENT IN ELECTRONIC INSTALLATIONS.



Copyright © 2015 Astro Machine Corp.
04/02/2015

Part Number: 200-ABF50 Rev. B