

Cutting machine

Type C053

Translation of the original operating manual

Streckfuss USA

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Version: 4.4

Date of issue: December 2022

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EC Declaration of Conformity In according to EC Machinery Directive 2006/42/EG Appendix II A

We herewith declare that the machine described hereinafter satisfies the essential safety and health requirements set out in the EC Machinery Directive with regard to its design and construction as well as the type marketed by us.

In case of an alteration of the machine without our agreement this declaration shall become void.

We furthermore point out that for the installation of spare parts only original parts of the company Burst & Zick GmbH may be used.

Description of the machine:	Cutting machine
Machine type:	C 053
Machine number:	22.12.3516
Applicable directives:	EC Machinery Directive (2006/42/EG appendix II A) EC Electromagnetic Compatibility Directive (2014/30/EG)
Applied harmonized standards, particularly:	EN ISO 12100:2010 DIN EN 13857

Attachment of the CE label: **CE**

Place/Date/Signature: Karlsruhe, den 13.12.2022



Bernd Adler

Managing director

General Information

1. Notes on Industrial Safety

The following notes on industrial safety have to be specially adhered to:

- The cutting machine C053 has been constructed according to the current state of the art and conforms to the ESD regulations. Nevertheless, perils may arise from this device if it is used by untrained personnel or for other than the intended purposes.
- **Statement on the Residual Risk**
 1. Danger of electric shock if the switchbox is opened while voltage-carrying. Work in and on the electrical equipment may principally only be carried out by qualified electricians.
 2. Danger of contusion and shearing during set up operation.

The danger areas are marked with signs.



- Applicable accident prevention regulations have to be adhered to by the user, particularly the
 - DGUV-Regulation 1
- The device may only be operated by trained qualified personnel.
- Any mode of operation which can impair the safety of the device has to be refrained from.
- The user undertakes to operate the device only in perfect condition.
- Unauthorised alterations or variations which impair safety have to be refrained from.
- Safety devices may principally not be dismantled or put out of operation. If it is indispensable to dismantle safety devices for the purpose of tool changes or for maintenance and repair work, the safety device has to be reinstalled immediately afterwards.

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3. General description

The cutting machine C053 is used for dimensionally stable cutting of component lead wires. A re-cutting after soldering is unnecessary in this case.

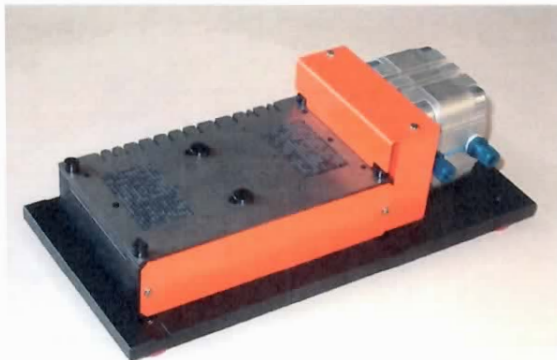
In the cutting plate there are hole-patterns which can be used for cutting plug-rails, transistors, IC's, capacitors, resistors and similar components. The components have to be feed manually in the suitable hole-pattern and by releasing the footvalve cut exactly on length.

The standard cutting length is 3 mm (measured from the lower edge of the component-body). Another cutting length can be achieved by using a thinner top plate (shorter lead length) or by adding a spacer plate (longer lead length).

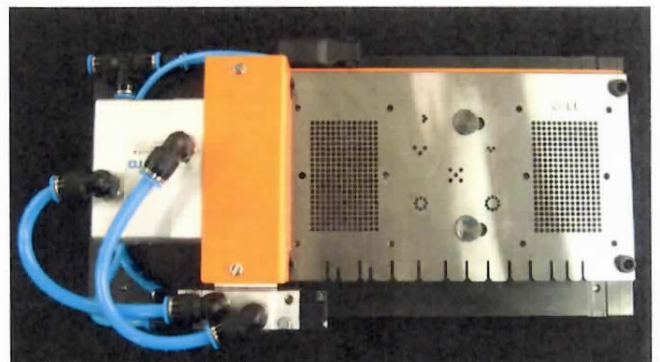
The drillings of the hole-patterns are made out in the pitch of 2,5 mm and as also in the pitch of 2,54 mm (Inch).

The hole-diameter is 1,1 mm. Larger drillings can be made upon request.

On one side of the top- and cutting plates there are slots which can be used for cutting tube- and disc-capacitors or components with long and thin leads.



C053 with foot valve



C053 with hand release

Fig. 1
Cutting machine C053

4. Technical Data

Dimensions Without foot valve	Width: Depth: Height:	140 mm 290 mm 100 mm
Weight:		app. 5,6 kg
Air pressure		6 bar
Pitch size		2,5 mm and 2,54 mm
Hole pattern		13 x 21 drillings for plug-rails, and as well round-pitch for power amplifiers and transistor
Lead Ø		Standard 0,8 mm (other di- mensions upon request)
Cutting length		Standard 3 mm (other di- mensions upon request)
Operating		via pneumatic foot valve
Special hole pattern		upon request

Commissioning

1. Installation and connection

The Machine will be delivered ready assembled. Check the delivery immediately on the basis of the delivery note or packing list. If the delivery is incomplete or damage occurred during transport is to notify us immediately.

Foot switch and connection-tube are attached to the device and have to be connected by the customer according to the enclosed pneumatic diagram. We recommend to integrate a service unit with pressure controller into the connection-tube. Air pressure should be 6 bar.

On machines with manual release, you only need to connect the supply line. We recommend in the supply line a maintenance unit with pressure regulator installed. To be set pressure 6 bar.

The machine may only be used indoors. Place the machine on a stable, level working table and put the foot pedal on the ground in a convenient position for the operator.

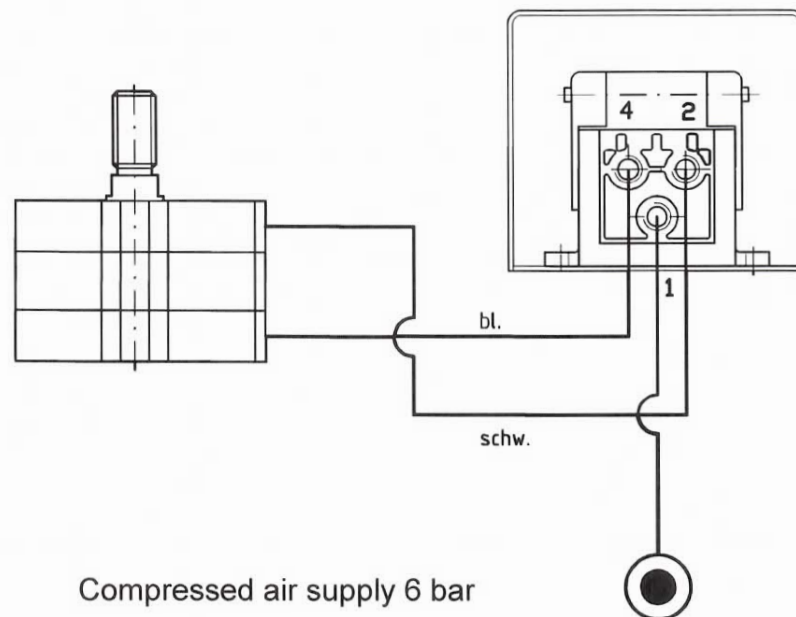
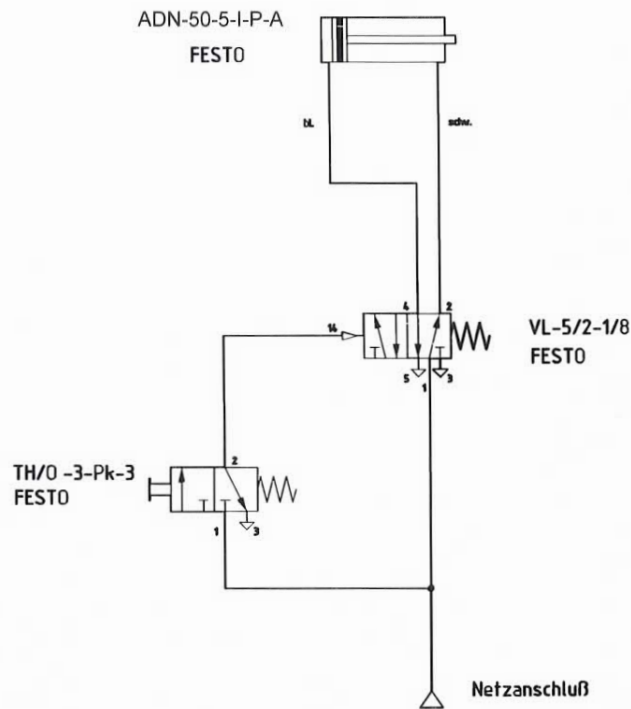


Fig. 2

Connection Diagram with foot valve



Compressed air supply 6 bar

Fig. 3
Connection diagram with manual release

2. Working with the machine

After the cutting machine has been connected as described above, insert a component in the cover plate. Please take care, that component is put completely into the machine, which means until the lower edge of the component body. This is very important to achieve always the same cutting length. The cutting procedure will be released afterwards by the foot valve or respectively by the hand release, depending on the version of machine you have.

Use only with mounted machine cover plates!



Retool

1. General comments on the adjustment of the machine

- Secure the machine, in case of modification or service-work on it, against a non-purpose
- Switch off compressed air
- Please make sure that all screws will be tighten again, after having finished the settings although this is not explicitly mentioned in the following text.

The machine is equipped to the length by the factory. To prevent damage, setting changes must be carried out carefully by means of existing instruction by qualified personnel.



2. Re-Grinding of Top- and Cutting Plate

Top- and Cutting Plate are made of high quality tool steel and hardened. Normally it is not necessary to re-grind these parts. In case it is needed it is very easy to dismantle these parts.

Please note, that the lead-length will be reduced by the same dimension as you re-grind the top plate. The re-grinding of the cutting blade has no influence on the lead length.

After the above is done, the device has to be carefully re-mounted.

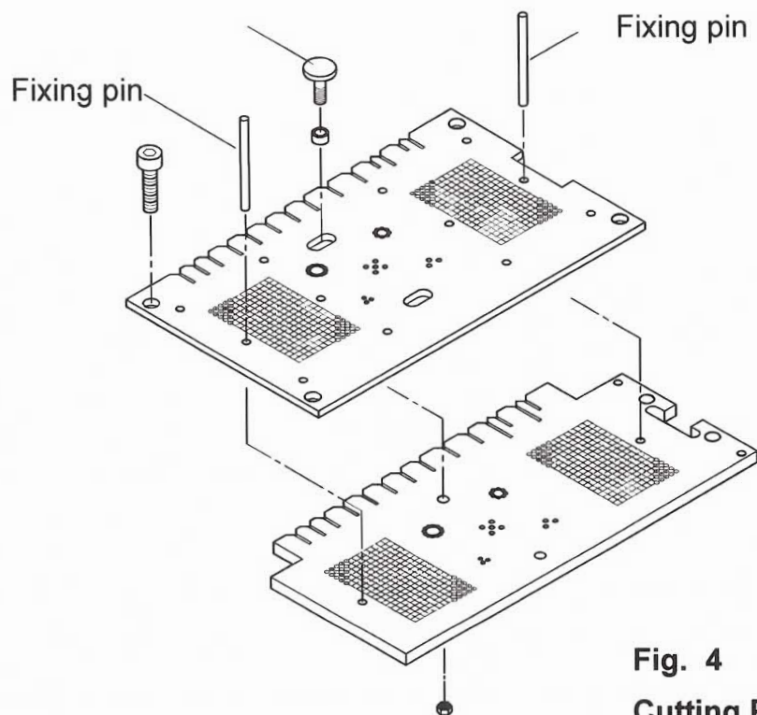


Fig. 4
Cutting Plate Adjust-

1. Top- and cutting plate have to be exactly adjusted to each other.
For this purpose, please stick a pin ($\varnothing 3$) through the fixing-drillings of the top- and cutting plate (see picture).
2. Afterwards set the component plate set back into the device and lock it with the four cylinder-screws.
3. After the top-plate is locked, take off the fixing pins. Ready.

To avoid mistakes by doing the above, we recommend that the re-grinding is done by the manufacturer.

3. Exchange of the dowel pin

If you want to exchange the dowel pin (piece 10) pay attention absolutely **that the distance between the plane of the dowel pin and the cylinder has to be 27,5 mm**. The locknut is to be drawn after the setting again firmly.

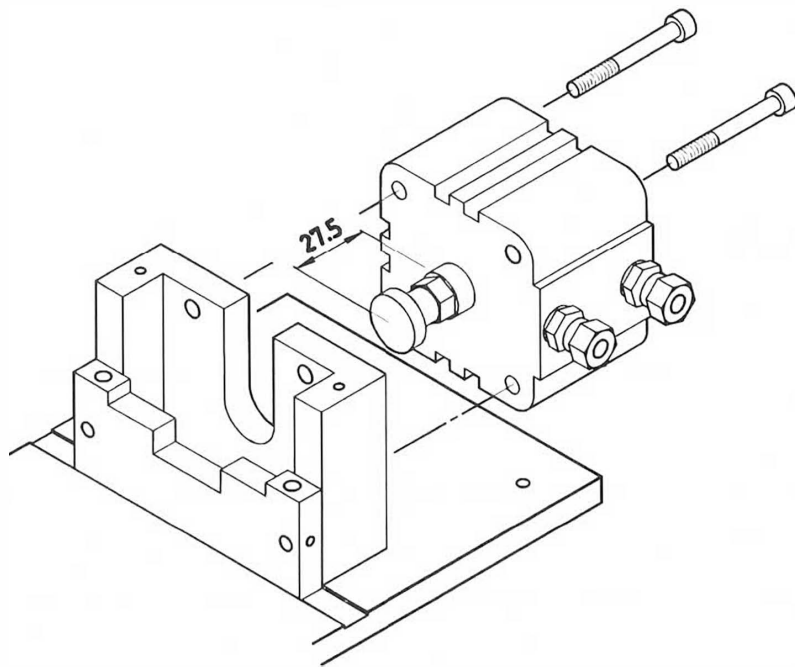


Fig. 5
To adjust the dowel pin

Faults and their Rectification

Caution: All maintenance and repair work may only be performed by qualified and trained personnel!



If used properly, the machine will function virtually without trouble. If, contrary to expectation, faults should occur, please inform your supplier first.

Your contact: **Streckfuss USA, Tel. +1 972 790 1614**

The type of fault discussed consequently can be taken down in the following table with the description of causes and measures for the correction of the faults.

Type of fault	Cause	Measures

Maintenance

1. Maintenance Plan

Operating hours / Period	Maintenance Instructions
daily	By using a brush clean the device of waste leads and other garbage.
monthly	Clean all sliding parts and oil lightly. No grease

Caution: All maintenance and repair work may only be performed by trained specialists!

Caution: No grease may be used for lubricating moving and sliding parts. Use thin lubricants only such as spray oil.



Spare parts catalogue

Cutting machine

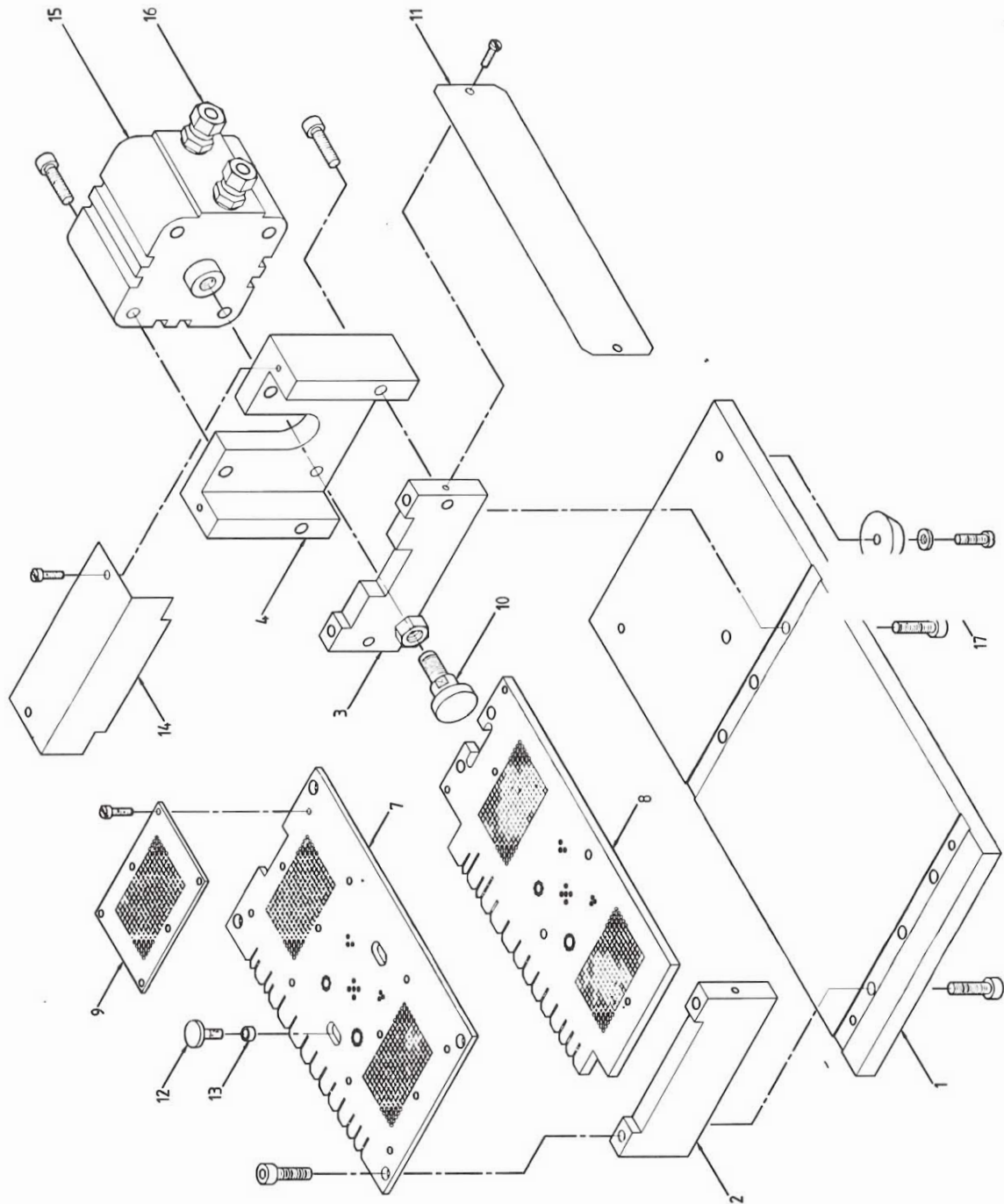
C053

1. Parts list

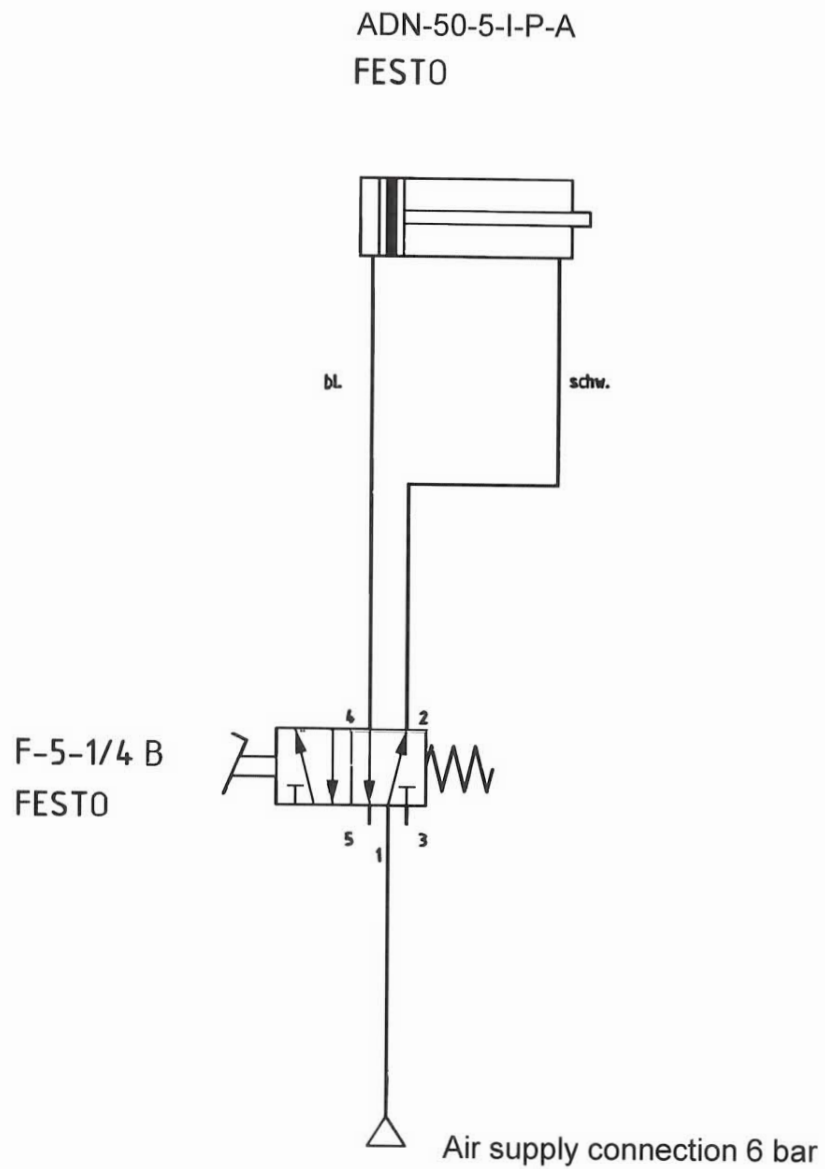
Item	Description	Part- No.	Quantity
1	Base plate	C053 T.1	1
2	Shear plate (front)	C053 T.2	1
3	Shear plate (rear)	C053 T.3	1
4	Cylinder mount	C053 T.4	1
7*	Shear plate	C053 T.7	1
8*	Cutting plate	C053 T.8	1
9	Spacer plate (option)	C053 T.9	
10	Clevis bolt	C053 T.10	1
11	Side panel	C053 T.11	1
12*	Shear plate bolt	C053 T.12	2
13*	Spacer	C053 T.13	2
14	Top panel	C053 T.14	1
15*	Short- stroke cylinder		1
16	Air fitting		2
17	Rubber Foot		4
	Foot valve F-5 -1/4 -B		1

Spare Parts are marked with *

2. Exploded view C053



3. Pneumatic plan C053 with foot valve



4. Pneumatic plan C053 with hand release

