


Side 1 of 18	Wire Stripper Type IIB	
14.04.2012		


Operating Manual

Wire Stripper

Model: IIB



Isomap AG
CH – 3700 Spiez / Switzerland
E-Mail: info@isomap.ch

Side 2 of 18	Wire Stripper Type IIB	
14.04.2012		
	Short Guide	

SAFETY INSTRUCTIONS

This guide provides tips for your personal security and what you need to take into account in order to avoid damage of property. These notes are highlighted by a warning triangle and are presented according to the degree of danger:

**DANGER!**

means that death, serious physical injury or substantial damage of property, **will** occur, if proper precautionary measures are not taken.

**WARNING!**

indicates that death, serious physical injury or substantial damage of property, **might** occur, if proper precautionary measures are not taken.

**CAUTION!**

indicates that minor physical injury or damage to property **can** occur, if proper precautions are not taken.

**INDICATION!**

shows important information about the product, handling of the product or this part of the documentation needs special attention.

Qualified Personell

The commissioning and operation of Wire Stripper IIB may only be performed by qualified personnel. Within the context of the safety notes in this quick guide are persons who have been trained, or worked with this device.

Account for:

For accidents or damage caused by ignoring the security instructions, improper actions or by improper use, the manufacturer can not be held responsible.

**WARNING!**

The Wire Stripper IIB may only be used for the specification and in the technical description of intended use, and only in combination with the spare parts recommended by the Isomap AG.

The proper and safe operation of the product requires proper transport, storage, installation and assembly, operation and maintenance according to the manufacturer's standards.

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Isomap AG
CH – 3700 Spiez / Switzerland

Disclaimer

We have reviewed the contents of this manual for accordance with the described Wire Stripper IIB. Since variance can not be excluded, we take no responsibility for complete compliance. The information contained in this publication is regularly checked and necessary corrections included in subsequent editions.

Suggestions for improvements are welcome.

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FOREWORD / IMPORTANT NOTES

Object of this Short Guide The object of this Short Guide is to assist the expert in his training, in handling the wire stripper.

Readership This Short Guide is intended for users of the Wire Stripper IIB by Isomap AG.

Information-Responsibility The Short Guide and established regulations must be stored, so that the operating and maintenance personnel have access.



INDICATION!

In addition to the short start guide, the service and security guide of this device, or other legally binding regulations that are important to prevent accidents must be carefully followed! The operating and safety manual can be obtained in German from Isomap AG.

Validity of this guide This Short Guide is valid for the Wire Stripper Type IIB and the associated stripper heads.



INDICATION!

Warranty void if any functional changes are made to the Wire Stripper IIB

responsibility of the operator

The Wire Stripper IIB must only be operated, if in perfect condition. Obstacles between the Wire Stripper IIB and the customer's facilities must be removed by the operator. This Short Guide must be read carefully to the end before using the Wire Stripper IIB.

By obscurity contact us immediately, do not use the device as long as there is any uncertainty. With the commissioning of the Wire Stripper, you acknowledge that you have read the Short Guide and understood it.




DANGER!

If the Wire Stripper IIB is used incorrectly, or in bad condition or operated falsely accidents can occur.

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1 Intended Use

The Wire Stripper consists of the Stripper Head and a separate electric drive.

The Wire Stripper can be provided with the following Stripper Heads: KG0, KG1, KG2, KG3, KG4, PVC1, PVC2, PVC3, PVC4, PVC5.

The Wire Stripper ensures a fast and accurate stripping of all commercially available wires from 0.2 to about 8mm in diameter. Through a variety of interchangeable Stripper Heads faultless, clean wire ends are achieved.



INDICATION!

The device may be used solely for the materials approved by the manufacturer. Any other use is not permitted!



DANGER!

For injuries and damages caused by failure to observe the safety instructions, or due to improper actions, the manufacturer disclaims any liability with regard to operational safety and personal injury

1.1 Limitation of liability

The Wire Stripper IIB has been tested by the manufacturer before delivery. The electrical installation of the device must be carried out by a competent person and must be monitored.

Isomap AG is not responsible or liable for direct or indirect damage to the Wire Stripper IIB or for faulty production etc., caused by installation, assembly or mounted accessories (e.g. foot pedal) made by the customer.



INDICATION!

- The user has to ensure that accessories that are not from the Isomap AG, are only put into service by qualified personnel. Qualified personnel in the context of the safety notes in this Short Guide are persons who have been trained to work on this system.

2 Name of system parts

Figure 1 shows the parts of the Wire Stripper IIB. The images are for your illustration.

Detailed information and the dimensions can be found in the data sheet of the device.

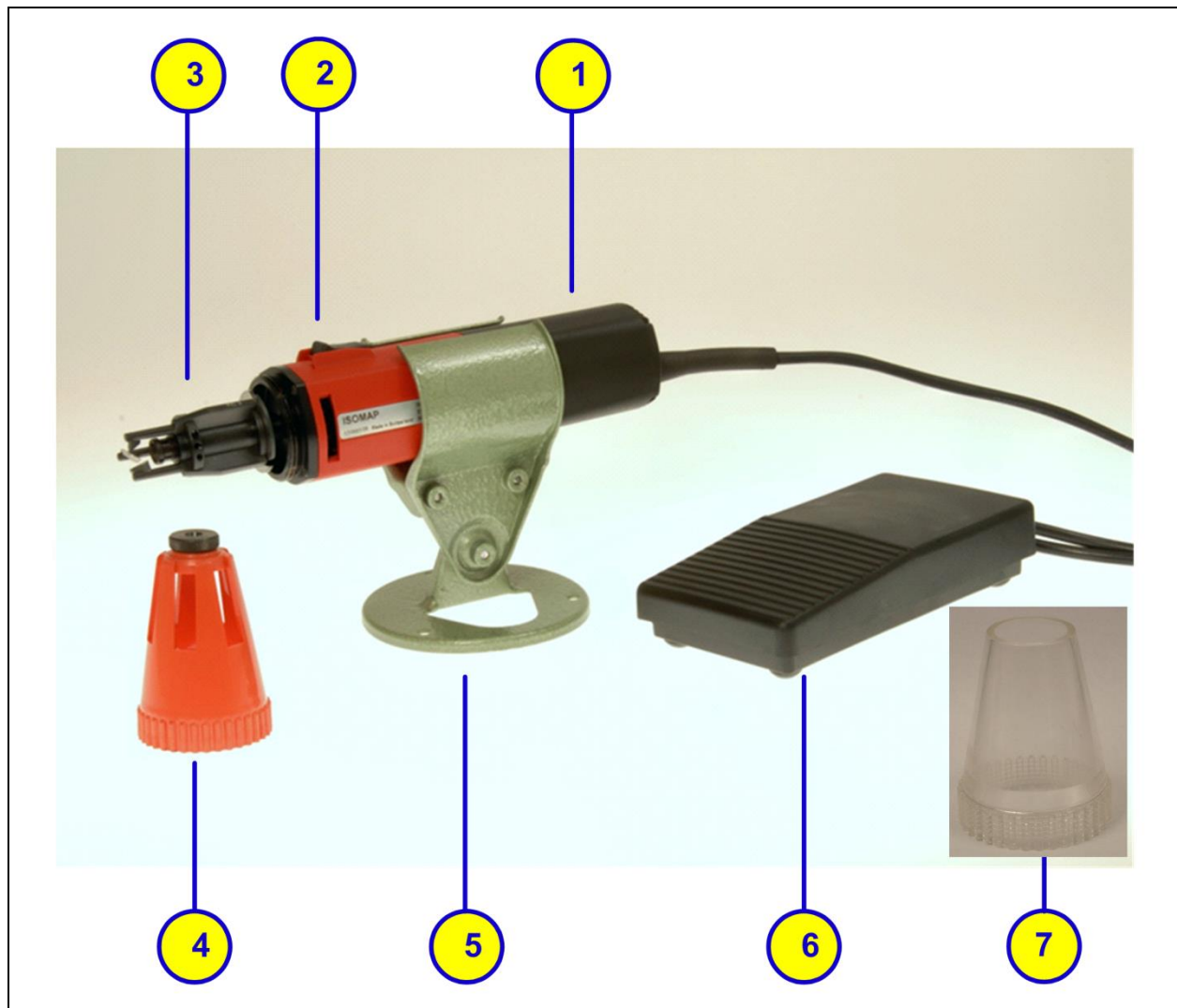


Image 1: Wire Stripper IIB


Pos.

- 1 Wire Stripper IIB
- 2 ON/OFF Switch
- 3 Stripper Head

Pos.

- 4 Safety cap with wire guide
- 5 Bracket for Wire Stripper IIB
- 6 Foot pedal
- 7 Standard safety cap

Table 1: Name of system parts

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3 Delivery contents

Before you start to use your Wire Stripper IIB, please make sure that your delivery is complete and agrees with the information on the delivery note:

- Device type designation, extended type designation
- Accessories as per delivery note
- Short Guide with declaration of conformity by machine directive 2006/42/EC. (The detailed operating and safety manual is not included, it can be obtained from Isomap AG.)
- Hazard notices to the handset from Suhner AG

4 Installation guide

4.1 Damage report

After delivery of the Wire Stripper IIB any damage due to defective packaging or transport must be reported to the hauler, the insurance and the delivery work.
For contact adress see chapter 8.1.

4.2 Unpacking

- Carefully remove the packaging.
- Check the Wire Stripper IIB for any obvious damage.



INDICATION!

- Check the delivery for its completeness based on the delivery note. (Should it not be complete, please contact our customer service immediately).
- In case of any damage due to defective packaging or transport, contact our customer service the hauler and the insurance.

4.3 Construction and installation

If the Wire Stripper is mounted on the bracket (accessory), it must be installed so that a proper function is guaranteed, i.e. it may not result in unacceptable static, dynamic, or thermal stresses acting on the Wire Stripper.

The bracket must stand on a firm, even and vibration free surface and be easily accessible for the operator.



DANGER!

The Wire Stripper may not be exposed to vibration and /or oscillations. These may affect not only the operation, they can also lead to disturbances or accidents!

4.4 Electrical and electronic equipment

For more detailed safety information on the handset, see the instructions from Suhner AG.

**DANGER!**

- Read the warnings in the manual of the handset!
- Faulty electrical components can be under voltage and thus be lethal.
- Don't squeeze, pull or drive over the cable.
- Before working on electrical equipment the device must be disconnected from the power source. This must be done by turning off the main switch.
- Identified defects on electric components / assemblies must be mended without delay. There is an acute danger if the device is used in faulty condition.

**INDICATION!**

- Work on electrical components / groups must be carried out by qualified electricians according to the electrotechnical rules.
- Isomap AG takes no liability for incidents or damage, originating in the electrical installations.

4.5 Commissioning

Note that when you first start and test run it must be ensured that...

- all installations comply with local regulations,
- all power and control connections are connected and ready for operation,
- all parts are clean and free from dirt,
- the local voltage conform with the respective electrical components specified voltage as shown on the nameplate.

**DANGER!**

- No changes, extensions or conversions are allowed to be made which affect the security or function of the Wire Stripper IIB, otherwise the CE-conformity expires.
- If the Wire Stripper IIB and accessories, safety devices, etc. are not tested properly, the function can be affected and serious injuries to personnel and/or massive damage to the Wire Stripper IIB can occur!

**CAUTION!**

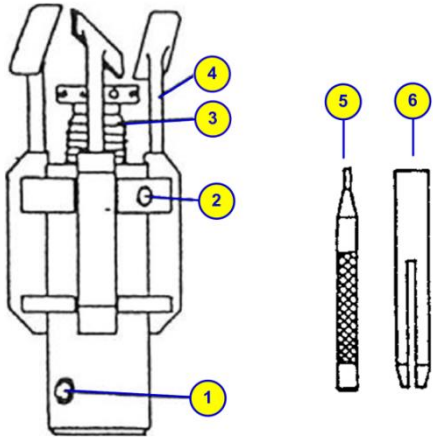
- When commissioning personal protective equipment (goggles and gloves) must be used.
- The rules to prevent accidents as well as the EKAS directives (for work in Switzerland) must be followed.

**INDICATION!**

The user must have read and understood the Short Guide and all the rules.

5 Operation

5.1 Adjusting the Stripper Heads



1	Set screw to secure the knife head on the drive shaft
2	Set screw to block the stop screw
3	Stop screw to adjust the wire diameter
4	Knife holder with HM- or DIA-blades
5	Adjusting pin
6	Stop pin to define the strip length that's used (is inserted into stop screw). The pin can be cut to required length.



DANGER!

The tool is sharpened and can cause cuts!



INDICATION!

Use of the tool outside the Wire Stripper IIB is not intended. If the tool anyhow is used with another drive, it's important to note the direction of rotation.

5.2 Rough tuning of the stripper blades

1	ON/OFF switch on OFF
2	Remove protective sleeve
3	Loosen set screw (2) a bit
4	Insert set pin into stop screw (3) and adjust so that the space between the blades pressed against the stop screw, is approximately equal to the wire diameter.
5	Fasten set screw (2)

**INDICATION!**

The setting of the average diameter may only be made in electricity free condition.

5.3 Fine tuning the stripper blades

1	Run a wire centred between the blades, turn on the device and pull the insulation off
2	If the insulation doesn't come off, turn the stop screw (3) with the set pin (5) to the right
3	If however the wire is breached, turn the screw to the left until the wire stays clean and the insulation can be removed easily.
4	Tighten set screw (2), but not too tight, so the fine thread of the screw is not damaged.

**CAUTION!**

When fine tuning for very thin wire diameters, it is important to use a piece of wire as a „blade guard“ when the device is turned on, because the stop screw (3) can be screwed so far into the head that the blades can touch each other.

Minimize the revolutions to reduce the risk of damaging the blades.

**INDICATION!**

To each Stripper Head a stop pin is delivered (see figure 2), which can be cut to desired length and, (spread slightly in the center) inserted into the set screw.

The protective cap with wire guard serves for the precise centering of the wire. The wire guide is normally drilled to the desired diameter.



CAUTION!

It is particularly important to ensure that no hard objects (e.g. screwdrivers) get into the turning blade head. If objects get into the cutter head while the motor is running there is an acute risk of accidents! Also the Stripper Head is damaged. Please never try to sharpen the blades on your own. (See also chapter 7 maintenance)

5.4 Changing the Stripper Heads

1	ON/OFF switch on OFF
2	Remove protective sleeve
3	Loosen set screw (1) on the Stripper Head carefully
4	Remove Stripper Head and put new Stripper Head on spindle
5	Tighten set screw (1) carefully
6	Put on protective cap



INDICATION!

It is important to ensure the Wire Stripper is disconnected from its power supply during the changing process.

5.5 Stripping wire ends



CAUTION!

- When operating the Wire Stripper personal protective equipment (goggles and gloves and possibly a mask) must be used.

1	ON/OFF switch on OFF
2	Slide wire into the designated opening
3	Hold wire
4	ON/OFF switch on ON
5	Pull wire slowly out of the opening
6	ON/OFF switch on OFF

5.6 Stripping wire ends with coils, stators, etc.

1	ON/OFF switch on OFF
2	Slide device with Stripper Head over the wire end
3	Hold device
4	ON/OFF switch on ON
5	Pull device off slowly
6	ON/OFF switch on OFF

**DANGER!**

- Removing the protective cap is strictly prohibited!
- Before operating the Wire Stripper:
Make sure the protective cap is mounted!
- Operating the device without a protective cap is prohibited!
- When manufacturing wires, the device must be mounted on the bracket!

**INDICATION!**

For more frequent and prolonged use (for example manufacturing wires) it's appropriate to wear a respirator mask.

6 System maintenance

6.1 Cleaning of the Wire Stripper IIB

Note that when cleaning the following items, it must be ensured that...

- For cleaning the Wire Stripper only suitable cleanser may be used!
- The Wire Stripper must be cleaned regularly!

**INDICATION!**

- Do not use hazardous materials for cleaning.
- Do not use any aggressive cleaners.
- Cleaning foam is very aggressive and should therefore only be used on rust free parts. Painted parts, parts made of aluminium, rubber gaskets, engines, transmissions and electrical components must be protected from foam.
- Perform the cleaning always without electricity connected.
- Wear appropriate personal protective equipment (goggles, gloves, and a mask).
- Do not store food or drinks near the Wire Stripper during the process of cleaning.

7 Maintenance

The Wire Stripper IIB is constructed in accordance with applicable statutory requirements and is safe to operate. The device still contains risks, if operated improperly or not in proper condition.

7.1 Servicing

It is important that the Stripper Heads are free from the fine metal dust.

You should watch out that the Stripper Heads are sent to Isomap AG to get them sharpened before it is too late.



INDICATION!

- The need for maintenance or service is determined by regular visual inspection, especially in the initial phase of every operation.
- The listed checks / maintenance work might not be complete, they are merely recommended by Isomap AG. The list must be adapted to the operational realities!
- Isomap AG takes no responsibility for any damage due to the lack of instructions in the maintenance plan.

8 Troubleshooting

This chapter describes possible problems that may occur during operation and repair.

Disorder	Possible Causes	Action(s)
Thin wire tears	Damaged or blunt blades, revolutions too high	Regrind blades, turn down revolutions
Blades don't open or close	very dirty or damaged blades	Blow out, oil the shim with a bit of oil or have it repaired.
Excessive groove on the wire	Blades are damaged, revolutions too slow or you are pulling the wire too fast	Adjust the revolutions, Sharpen the blades, adjust the speed with which you pull the wire
Wire Stripper doesn't start	Cable or Plug disconnected or damaged	Check the connection, Send the device back to Isomap AG.

Table 2: Disorders and their correction

8.1 Service and address for further information

For problems or questions which are not described or can't be solved, please contact the service center of Isomap AG.

The detailed operating and safety manual can be ordered at:

Address : **Isomap AG**

CH-3700 Spiez

Tel.: +41 (0)33 655 05 63

E-Mail: info@isomap.ch

Internet: www.isomap.ch


9 Spare parts

Spare parts must meet the technical requirements set by the manufacturer. This is always guaranteed with original spare parts. Only use original spare parts. Our guarantee expires when using components from third parties, or not approved of in writing

9.1 Stripper Heads to Wire Stripper IIB

Type Stripper Head	wire \varnothing	insolation	Stripping length	Guide disc	
				with Art.-Nr.	without Art.-Nr.
KG0 – II	0.20 – 0.75 mm	enamelled	max. 53 mm	2349	2320
KG1 – II	0.75 – 1.50 mm	enamelled	max. 53 mm	2363	2321
KG2 – II	1.50 – 2.50 mm	enamelled	max. 53 mm	2364	2322
KG3 – II	2.25 – 4.50 mm	enamelled	max. 53 mm	2365	2323
KG4 – II	4.00 – 8.00 mm	enamelled	max. 53 mm	2366	2324
KG4 – II plus	6.00 – 8.50 mm	enamelled	max. 53 mm	2362	2319
PVC1 – II	– 2.50 mm	thermoplast	max. 53 mm	2367	2325
PVC2 – II	1.00 – 4.00 mm	thermoplast	max. 53 mm	2368	2326

Table 3: Stripper Heads

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9.2 Spare blades

Blade set for type IB & II & IIB	Guide pin			Blade set for type II & IIB	Guide pin	
	with Art.-Nr.	without Art.-Nr.			with Art.-Nr.	without Art.-Nr.
KG0	2256	2200		KG3	2263	2238
KG1	2257	2201		KG4	2264	2239
KG2	2258	2202		PVC2	2265	2239
PVC1	2259	2203				



INDICATION!

- Consumables and spare parts are affected, depending on the appropriate delivery and not always available at short notice by the manufacturer.
- Note that due to delayed availability of spare parts, consequential loss of production can occur.
- We recommend you keep the replacement parts listed in table 3 and 4 in your warehouse.
- When ordering spare parts, indicate unit number, device type and item number.

Table 4: Spare blades

9.3 Disposal






According to regulations for electronic waste in the countries concerned. The devices can also be returned to Isomap AG for free (postage to be paid by sender).


10 Specifications

Device name and type	Wire Stripper type IIB
Power supply of the Wire Stripper IIB	300W / 230V~
Dimensions	length: 210mm (with the axis, without head), diameter: 64mm
Weight	1000g
Speed	3'500 – 15'000 U/min.

Table 5: Specifications

11 Declaration of conformity

		EG-Konformitätserklärung <i>CE Déclaration de conformité</i> <i>EC Declaration of conformity</i>	
Isomap AG Lattigen 3700 Spiez		 +41 (0)33 655 90 53  +41 (0)33 655 90 51  info@isomap.ch	
Wir / Nous / We,		Isomap AG Lattigen CH-3700 Spiez	
erklären in alleiniger Verantwortung, dass das Produkt <i>déclarons de notre seule responsabilité que le produit</i> bearing sole responsibility, hereby declare that the product		Beschreibung des Produkts Abisolierapparat <i>Description du produit</i> Appareil de décapage Description of product Electro stripper Typenreihe / Série type / Type Series IIB	
auf das sich diese Erklärung bezieht, mit der/den folgenden Norm(en) oder normativen Dokumenten übereinstimmt: <i>auquel se rapporte la présente déclaration est conforme aux normes ou aux documents normatifs suivants.</i> referred to by this declaration is in conformity with the following standards or normative documents.			
Bestimmungen der Richtlinie <i>Désignation de la directive</i> provisions of the directive		Titel und/oder Nummer sowie Ausgabedatum der Norm(en): <i>titre et/ou numéro ainsi que date d'émission de la/des norme(s) :</i> title and/or number and date of issue of the standard(s):	
2006/42/EG: Maschinensicherheit <i>2006/42/CE: Sécurité des machines</i> 2006/42/EC: Machinery safety		EN ISO 12100-1: 2004 EN 60745-1: 2006 EN ISO 12100-2: 2004 EN ISO 14121-1: 2007	
2006/95/EG: Elektrische Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen <i>2006/95/CE: matériel électrique destiné à être employé dans certaines limites de tension</i> Équipement de basse tension 2006/95/EC: Electrical Equipment designed for use within certain voltage limits		EN 60204-1: 2006	
2004/108/EG: Elektromagnetische Verträglichkeit <i>2004/108/CE: Compatibilité électromagnétique</i> 2004/108/EC: Electromagnetic compatibility		EN 61000-3-2: 2006 EN 61000-3-3: 1995 EN 55014-1: 2000 +A2:2002 EN 55014-2: 1997 +A1:2001	
Name und Adresse des Dokumentationsverantwortlichen: <i>Nom et adresse du person responsable pour la documentation:</i> Name and address of the person authorised to compile the relevant technical documentation:		Oesch, Andreas Lattigen CH-3700 Spiez Tel. +41 (0)33 655 90 53	
Spiez, 30.12.2009 Ort und Datum <i>Lieu et date</i> Place and date		 Geschäftsführer <i>Le Président Directeur Général</i> General Manager	

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12 Warranty

The warranty for the Wire Stripper (without Stripper Heads) is one year. The Stripper Head is a consumable, on which there is no warranty.