

<u>USER'S MANUAL :</u> <u>WERI MINI APPLICATOR</u>

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Issued by: PM eiCan WERI

WURTH ELEKTRONIK MORE THAN YOU EXPECT



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1 List of part numbers and application

Applicator Part Number	Serie	Pitch	Terminal Part Number	Wire Range
600 645 401	WR-WTB	3.96 mm	645 001 137 22	AWG 22-18
000 043 401	VVIC VVID	5.50 11111	645 101 137 22	AVIGEE
600 619 401	WR-WTB	2.54 mm	619 001 137 22	AWG 28-22
000 015 401		2.34 11111	619 101 137 22	
600 661 401	WR-WTB	2.54 mm Intercom	661 001 137 22	AWG 28-22
			661 101 137 22	
600 646 401	WR-WTB	2.50 mm	646 001 137 22	AWG 28-22
			646 101 137 22	
600 620 401	WR-WTB	2.00 mm	620 001 137 22	AWG 28-24
			620 101 137 22	
600 624 401	WR-WTB	2.00 mm Dual Row	624 001 137 22	AWG 28-22
			624 101 137 22	
600 648 401	WR-WTB	1.50 mm	648 001 137 22	AWG 30-28
			648 101 137 22	
600 653 401			653 001 137 22	
			653 101 137 22	
600 665 401	WR-WTB	WR-WTB 1.00 mm	665 001 137 22	AWG 32-28
			665 101 137 22	
600 649 405		WR-MPC4 4.20 mm	649 005 137 22	AWG 16
			649 105 137 22	7,11,12,10
600 649 406			649 006 137 22	AWG 24-18
			649 106 137 22	7.110 2 1 10
600 649 407			649 007 137 22	AWG 28-22
	WR-MPC4		649 107 137 22	7,110 20 22
600 649 405	WK-WFC4	1120 111111	649 008 137 22	AWG 16
			649 108 137 22	
600 649 406			649 009 137 22	AWG 24-18
			649 109 137 22	
600 649 407			649 000 137 22	AWG 28-22
3333137			649 100 137 22	



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Applicator Part Number	Serie	Pitch	Terminal Part Number	Wire Range
600 662 403	06 01 WR-MPC3 3.00 mm 04	662 003 137 22	AWG 24-20	
000 002 403			662 103 137 22	AVVG 24-20
600 662 406		WR-MPC3 3.00 mm	662 006 137 22	AWG 30-26
000 002 400			662 106 137 22	AVVG 30-26
600 662 401			662 001 137 22	AWG 24-20
000 002 40 1			662 101 137 22	
600 662 404			662 004 137 22	AWG 30-26
600 662 404			662 104 137 22	
C00 CC2 / 01			662 002 137 22	AWG 24-20
600 662 401			662 102 137 22	
C00 CC2 / 0/			662 005 137 22	AWC 20. 2C
600 662 404			662 105 137 22	AWG 30-26

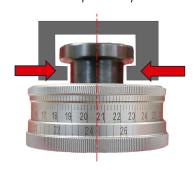
2 Important warnings

Verify the press shut height setting by means of a shut height gauge: 135.8 mm at bottom dead center.





Verify that the press and the mini applicator's axis are perfectly in line.





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Set the top ring of the continuous adjusting head in accordance with the data on the identification plate.





After having installed the mini applicator, cycle manually the press by means of a spanner in order to check that:

- the mini applicator runs smoothly without sticking in any way;
- the terminal is correctly placed on the anvil, in line with the same, and the other crimping and cutting parts

NOTE: each mini applicator is dedicated only to the terminal(s) written on its identification plate. Each mini applicator come in already configured with respect to that (those) terminal(s). After installation only the crimping heights need to be adjusted to the wire to be crimped. Any other operation / adjustment / setting should only be made and recorded by a qualified and experienced technician.

3 Symbols

WARNING: this symbol identifies any portion of this manual that should be carefully read and understood.

STOP: this symbol identifies all the situations where the operator is supposed to stop and proceed to the suggested checks before resuming the operation. Ignoring it would mean causing damages to the equipment.

INFORMATION: this symbol identifies any portion of this manual where generic information and suggestions could be found



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4 Identification



TER.: terminal part number.

MOD.: mini applicator part number.

AWG: cross-sectional area of wire conductor (American Wire Gauge).

INDEX: position of the top adjusting ring in order to obtain the corresponding conductor crimping

height (CHR).

CHR: conductor crimping height.

The mini applicator serial number is to be found on its core body.



5 Technical data

Shut height: 135.8 mm

Stroke: 40 / 30 cm (depending on cam set up)

Feeding: mechanical

Weight: 3.9 kg

Dimensions: 144 × 145.5 × 105 mm



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6 Installation (trained operator)

6.1 Installing the mini applicator inside the press

Make sure to turn off the press before performing the following steps.

Mini applicators are delivered with a rubber spacer inserted between the continuous adjusting head and the body for protection during transportation. Remove it when installing the applicator.



Place the mini applicator on the fixing plate A, line up the magnum's D base with the B hooks and tighten up the knob C.

Verify that the mini applicator is flat on the fixing plate A and make sure that the mini applicator's E pin is perfectly centered with reference to the press. "T" shank.





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6.2 Inserting the terminals into the mini applicator

With reference to the identification plate, position the top ring of the continuous adjusting head according to the settings related to the maximum wire cross-section allowed.



Free the brake by means of the lever B, place the terminals in the guide A, push it until it will be hooked by the pawl C and then tighten the brake by means of the lever B.





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After having installed the mini applicator, manually cycle the press by means of a spanner, in order to check that:

- The mini applicator runs smoothly without sticking in any way
- The terminal is correctly placed on the anvil, in line with the same and the other crimping and cutting parts. If further adjustments are needed, please refer to the following paragraphs.

 $\label{eq:cycling} \mbox{If, while manually cycling the press, something obstructs the movement, stop immediately and make sure that:}$

- The mini applicator is correctly mated to the press
- The press is correctly set at the standard 135.8 mm slut height
- The adjusting rings are not set too low (too small crimping height)

If the terminal is not correctly positionned, verify that:

- The feeding finger connects correctly with the terminal (strip holes)
- The brake lever is in the operating position

Set the top adjusting ring according to the values on the identification plate and, using a wire of the correct section, make some crimping tests. Should the obtained crimping height vary from the data on the identification plate, please check the press set up.



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CAUTION:

Terminal feeding system is a bit different as contacts are smaller and needs a precise guiding so it used an air pressured feeding system. For this feeding system, air pressure as to be set at 6 bar (87psi) and connected as shown as below:





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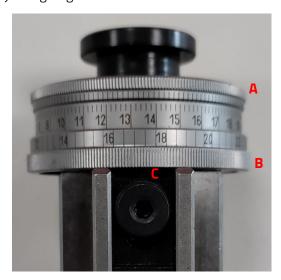
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7 Adjustments

Any adjustment must be performed after having made sure that the press is turned off.

7.1 Crimping heights (trained operator)

Both A (top) and B (bottom) adjusting rings must be set with reference to the C mark.



7.1.1 Conductor crimping height

The A adjusting ring has a setting range of 2.7 mm with a resolution of 0.01mm, and an INDEX of 1.40 corresponds to 14 on the ring.

If the INDEX is 1.45, the ring must be set to 14 and then 5 more steps are necessary. Indeed, $1.40 + 5 \times 0.01 = 1.45$.

A crimping test can now be done and carefully measured: depending on the result, the adjusting ring has to be turned either clockwise (lower crimping height) or counter-clockwise (higher crimping height).

NOTE: this final fine adjustment is needed because the user's press is different from the one that was used to develop the mini applicator.



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7.1.2 Insulation crimping height

Set the B adjusting ring to its minimum and turn it clockwise until the crimping is deemed correct.

7.2 Feeding (qualified technician only)



For adapting the pawl B to the pitch of the terminals, in order to have a new terminal correctly placed on the anvil for each cycle of the press: loosen the nut A and move the screw up for a greater pitch or down for a shorter one. Then tighten the nut again.

The -10 to +10 scale is indicative and only serves to store the screw position once properly adjusted.



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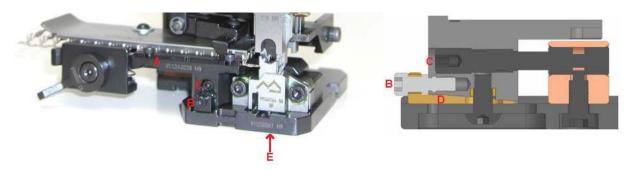
7.3 Crimping axis (qualified technician only)

This adjustment serves to perfectly align the terminal on the anvils and punches axis.



Manually cycle the press by means of a spanner until the terminal is positioned on the anvil. Loosen the nut A and turn the screw clockwise or counter-clockwise to determine the correct position. Then tighten the nut again and make a complete cycle of the press. If the result is not satisfying enough, repeat the operation.

7.4 Bellmouth and cut-off tab (qualified technician only)



For adjusting the bellmouth, loosen the screw B to release the wedge D and the terminal slide A. Rotate screw C clockwise or counter-clockwise to obtain the desired adjustment. Tighten B again until D blocks A.

Performing this operation may change the cut-off tab length. In case it needs to be readjusted, remove the mini applicator from the press, loosen the screw E and move the lower group of crimping elements backwards or frontwards. Then tighten E again.



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8 Stroke setting (qualified technician only)

The mini applicator is mounted by default with a 40 mm stroke, but it can be lowered to 30 mm by changing the cam position.

The cam for feeding the terminal in "pre-feed" or "manual" configuration is attached to the rear edge of the mini applicator. By default, the mounted cam is the "post-feed" or "automatic" one.



Moving the post-feed cam from B to A changes the stroke from 40 to 30 mm. Moving the pre-feed cam from C to B changes the stroke from 40 to 30 mm.



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9 Maintenance (trained operator)

9.1 Cleaning and lubrication

The mini applicator must be cleaned and lubricated every time it is removed from the press or every 8 working hours.

Suggested lubricating grease: DIN 51502 KP 2 K-30.

Remove the mini applicator from the press.

Remove the ram from the mini applicator.

Using a clean cloth, remove any grease or contamination from the ram.

Check the anvils, punches and cutters, and replace worn or damaged parts.

Clean the mini applicator body carefully.

Lubricate the ram and mini applicator body, together with all moving part.

Put the ram back into the body, spray the mini applicator with a protective oil and, if the mini applicator is not immediately used, reinstall the protective rubber spacer.

Every month fully clean the mini applicator using degreasing products which do not damage plastic parts or surface finishes. Remove the counter if you wash the mini applicator by immersion or by means of liquid under pressure.

Always lubricate the ram and all the sliding parts before putting the mini applicator back to use.

To correctly maintain the mini applicator, its cycles should be recorded, in order to plan the replacement of the key components.

When replacing worn parts, the operation should be recorded: this will assist in scheduling preventive maintenance and the ordering of spare parts

9.2 Storage

When the mini applicator isn't used for a long period, remove it from the press and clean it. Before storing it, spray the applicator with a thin layer of protective oil.



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10 Troubleshooting

Problem	Cause	Solution
The mini applicator is not	The mating surfaces are not clean	Clean the mating surfaces
correctly mated to the press'	and smooth	
baseplate	The mini applicator is not correctly	Verify the positioning oft he
	centered under the press	press."T" shank and
		baseplate
While cycling manually the	The press has not been set to the	Verify the press shut height
press with the spanner,	correct shut height of 135.8 mm	with a shut height gauge
something is blocking and does	at bottom dead center	
not allow the cycle to be	The punches are too close to the	Set correctly the adjusting
completed	anvils	rings of the continuous
		adjusting head, as per the
		mini applicator plate
	The rubber spacer has not been	Remove the rubber spacer
	removed	
The terminal does not fit in the	The brake on the feeding guide	Release the brake to allow
terminal feeding guide	has not been released	the guide to receive the
		terminals
	The terminal is not the good one	Verify that the terminal part
		number on the reel does
		correspond to the terminal
		part number on the mini
		applicator plate
The terminals are not correctly	Incorrect hooking of the terminals	Manually cycle repeatedly the
moving towards the anvil	by the feeding finger	press, making sure the
		feeding finger correctly
		engages the terminals



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The terminal is not correctly aligned along the anvil anxis are worn out feeding guide is press, making sure that the feeding finger or or ectly engages the terminals are worn out free ding system components are worn out anxis whatsoever and not requiring an abnormal effort to the feeding system? The crimping is not acceptable free terminals is not correctly and positioned with reference to the applicator plate and check the crimping height obtained whatsoever the anvils and punches axis and / or punches are damaged or excessive wearing, replace accordingly height settings The pull-test outcome is lower the expected value free press is set at the correct shut height of tasse is correctly set with reight gauge, make sure the press is set at the correct shut height of tasse is correct shut height of tasse is correctly set with eight of tasse is eat the correct shut height of the press is set at the correct shut height of tasse is corrected to the correct position or corresponds to the crimping height option of the terminal over the anvils and punches axis and in case of damaged or excessive wearing, replace accordingly the press is set at the correct shut height of tasse and the correct shut height of tasse and the correct shut height of tasse and the correct shut height of tasse at the correct shut height of tasse are the press is set at the correct shut height of tasse are the correct shut height of tasse are the press is set at the correct shut height of tasse are the press is set at the correct shut height of tasse are tassed as the correct shut height of tasse are tassed as the correct shut height of tassed and tasked and tasked and tasked are				
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damaged or excessive wearing, replace accordingly The wire section is wrong Make sure the wire section corresponds to the crimping height settings The pull-test outcome is lower than the expected value The press is not set at a shut height of 135.8 mm while at gauge, make sure the press is		Anvils and / or punches are	Check the punches, anvils and	
The wire section is wrong Make sure the wire section corresponds to the crimping height settings The pull-test outcome is lower than the expected value wearing, replace accordingly Make sure the wire section corresponds to the crimping height settings By means of a shut height gauge, make sure the press is		damaged and / or worn out	cutters and, in case of	
The wire section is wrong Make sure the wire section corresponds to the crimping height settings The pull-test outcome is lower than the expected value The press is not set at a shut height of 135.8 mm while at gauge, make sure the press is			damaged or excessive	
corresponds to the crimping height settings The pull-test outcome is lower than the expected value than the expected value corresponds to the crimping height settings By means of a shut height gauge, make sure the press is			wearing, replace accordingly	
height settings The pull-test outcome is lower than the expected value height of 135.8 mm while at height gauge, make sure the press is		The wire section is wrong	Make sure the wire section	
The pull-test outcome is lower than the expected value The press is not set at a shut than the expected value By means of a shut height gauge, make sure the press is			corresponds to the crimping	
than the expected value height of 135.8 mm while at gauge, make sure the press is			height settings	
	The pull-test outcome is lower	The press is not set at a shut	By means of a shut height	
bottom dead center set at the correct shut height	than the expected value	height of 135.8 mm while at	gauge, make sure the press is	
		bottom dead center	set at the correct shut height	



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The continuous adjusting head is	Make sure the setting of the
not correctly set	continuous adjusting heads
	corresponds to the values on
	the mini applicator plate
The wire section is wrong	Make sure that the setting of
	the continuous adjustng head
	corresponds to the wire
	section being used