

On-Site Joint Repair Kit Guide for Warmup Mats

and Loose Wire Systems

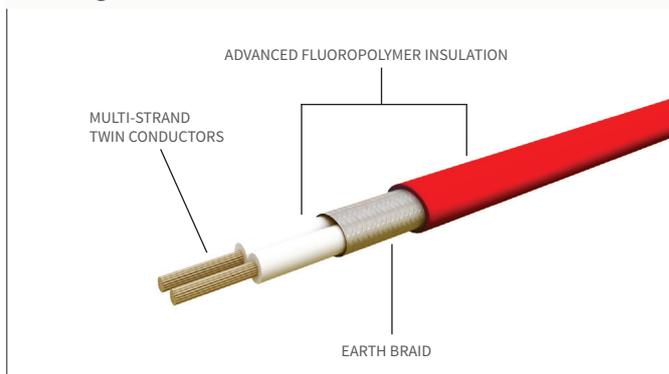
Warranty Disclaimer: This guide and the repair kit included have been provided by Warmup Inc. to aid in the repair of Warmup Mat & Loose Wire systems damaged on-site. Warmup cannot warranty the repair or guarantee the proper function of the heating system following a repair. Warmup recommends that all repair work be carried out by a qualified electrician and conform with current IEE Wiring Regulations. For any further assistance, please contact Warmup on 1-888-927-6333

CAUTION: Before commencing with the repair, ensure that the heating system has been completely disconnected from the power source.

Tools & Items Required for Repair

1. One Repair kit consisting of:
 - 1x Large heat shrink
 - 2x Small heat shrink
 - 2x Butt crimp
 - 1x Solder sleeve
2. Crimping Tool
3. Heat gun
4. Stanley knife / Wire strippers
5. Side cutters
6. Multimeter

Heating Wire Construction



Warmup NADWS Loose Wire Systems

Model NADWS-120V	Resistance	Model NADWS-240V	Resistance
NADWS-140-120	102.9	NADWS-350-240	164.6
NADWS-210-120	68.6	NADWS-560-240	102.9
NADWS-280-120	51.4	NADWS-700-240	82.3
NADWS-350-120	41.1	NADWS-1050-240	54.9
NADWS-420-120	34.3	NADWS-1260-240	45.7
NADWS-560-120	25.7	NADWS-1540-240	37.4
NADWS-700-120	20.6	NADWS-2100-240	27.4
NADWS-840-120	17.1	NADWS-2520-240	22.9
NADWS-1050-120	13.7	NADWS-3080-240	18.7
NADWS-1260-120	11.4	NADWS-3240-240	17.8
NADWS-1540-120	9.4		
NADWS-1620-120	8.9		

Warmup NADWM Mat Systems

Model NADWM-120V	Resistance	Model NADWM-240V	Resistance
NADWM-140-120	102.9	NADWM-350-240	164.6
NADWM-210-120	68.6	NADWM-560-240	102.9
NADWM-280-120	51.4	NADWM-700-240	82.3
NADWM-350-120	41.1	NADWM-1050-240	54.9
NADWM-420-120	34.3	NADWM-1260-240	45.7
NADWM-560-120	25.7	NADWM-1540-240	37.4
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NADWM-1050-120	13.7	NADWM-3080-240	18.7
NADWM-1260-120	11.4	NADWM-3240-240	17.8
NADWM-1540-120	9.4		
NADWM-1620-120	8.9		

Testing of the Heater During and After Repair

Do not tile if the heater does not pass all the tests. There may be a problem with new joint or additional wire breaks. Actual value should be +/-5%.

Contact Warmup on 1-888-927-6333 for further assistance.



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1

Slide the large heat shrink over the power supply cable (this will be needed to cover the final joint).



2

Slide the solder sleeve heat shrink over the heating element. (This will be needed to make the earth connection).



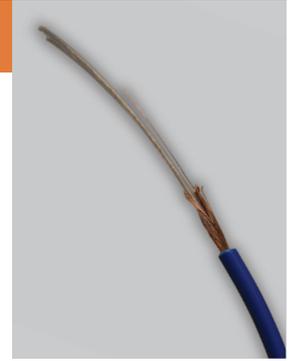
3

Strip back approximately 40mm of the outer insulation from the heating wire to expose the earth braid around the heating element cores.



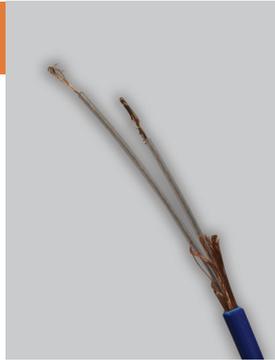
4

Remove the surplus earth braid leaving approx. 10mm of the braid exposed.



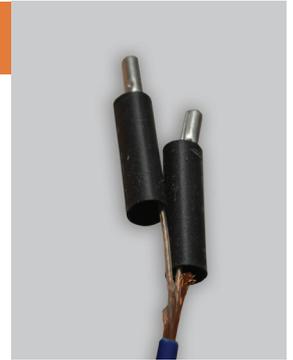
5

Cut back one of the cores so that the final crimped joints are staggered (this will reduce the thickness of the joint). Remove the inner insulation leaving approx 10mm of heating cores exposed.



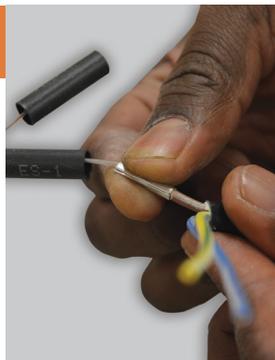
6

Attach a butt crimp to the heating cores, crimping once. Slide the small heat shrink over each core of the heating element.



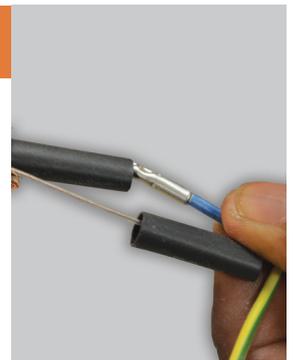
7

Attach the first heating element core to the live from the power supply cable, crimping once.



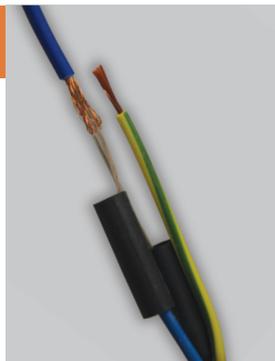
8

Line up the neutral and attach to the heating element core, crimping once.



9

The joint should now look like this. Conduct a resistance test to establish that there is a complete connection between the power supply cable and the heating element (see page 1 for ohm value).



10

Line up the earth braid with the earth from the supply cable.



11

Position the solder sleeve over the earth wire and the earth braid.



12

The joint should now look like this (re-test the heating element before activating the heat shrink).



13

Ensure solder sleeve covers the earths and that the small heat shrinks cover the entire crimp. Activate the heat shrink using a heat gun.



14

The completed joint should now look like this.



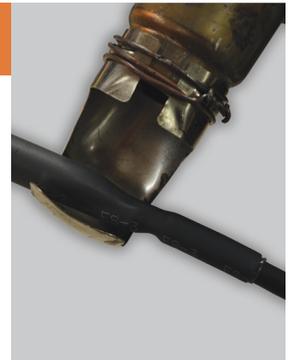
15

Slide the large heat shrink over the entire joint.



16

Activate the heat shrink using a heat gun.



17

The joint should now look like this.



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