On-Site Joint Repair 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 a Warmup Loose Wire System (NADWS) or Heating Mat (NADWM) 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 in accordance with the National Electrical Code. For further assistance, please contact Warmup on 1-888-927-6333.

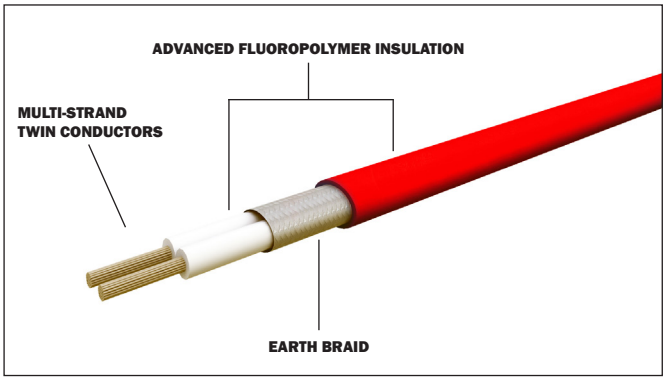
CAUTION: Before commencing with the repair, ensure that the heating system has been completely disconnected from the power source.

TOOLS & ITEMS REQUIRED FOR REPAIR:

1. One Joint Repair kit consisting of:
   - 1x Large heat shrink
   - 2x Small heat shrink
   - 2x Small butt crimp
   - 1x Solder sleeve

2. Crimping Tool
3. Heat gun
4. Stanley knife / Wire strippers
5. Multi meter

HEATING WIRE CONSTRUCTION:



TESTING OF THE HEATER DURING & 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 +/-10%.

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

Model NADWS-120V	Resistance
NADWS-140-120	102.9
NADWS-210-120	68.6
NADWS-280-120	51.4
NADWS-350-120	41.1
NADWS-420-120	34.3
NADWS-560-120	25.7
NADWS-700-120	20.6
NADWS-840-120	17.1
NADWS-1050-120	13.7
NADWS-1260-120	11.4
NADWS-1540-120	9.4
NADWS-1620-120	8.9

Model NADWS-240	Resistance
NADWS-350-240	164.6
NADWS-560-240	102.9
NADWS-700-240	82.3
NADWS-1050-240	54.9
NADWS-1260-240	45.7
NADWS-1540-240	37.4
NADWS-2100-240	27.4
NADWS-2520-240	22.9
NADWS-3080-240	18.7
NADWS-3240-240	17.8

Model NADWM-120V	Resistance
NADWM-140-120	102.8
NADWM-210-120	68.5
NADWM-280-120	51.4
NADWM-350-120	41.2
NADWM-420-120	34.3
NADWM-560-120	25.7
NADWM-700-120	20.6
NADWM-840-120	17.1
NADWM-1050-120	13.7
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CONTACT US at 1-888-927-6333

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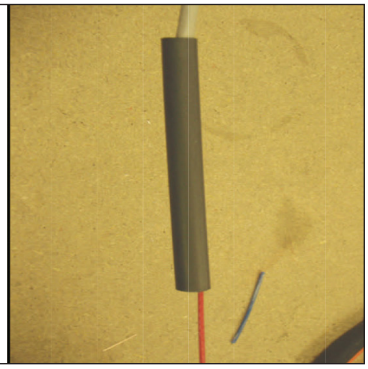
us@warmup.com
www.warmup.com

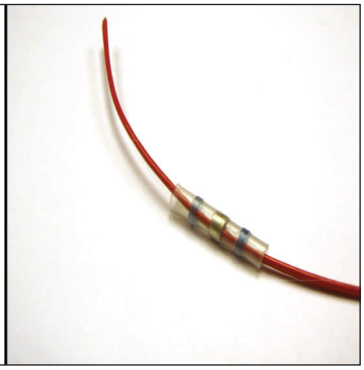
1

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



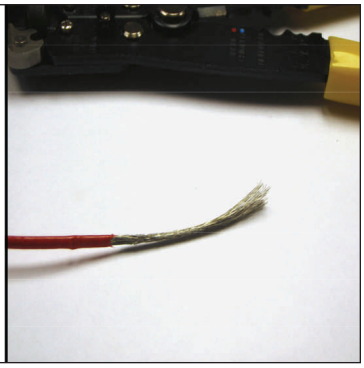
2

Slide the solder sleeve 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.



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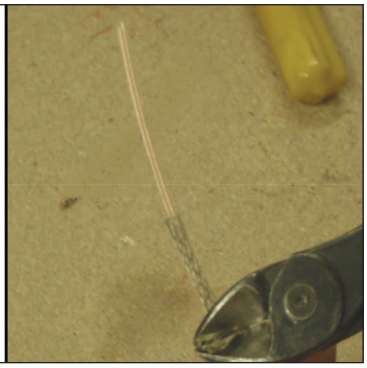
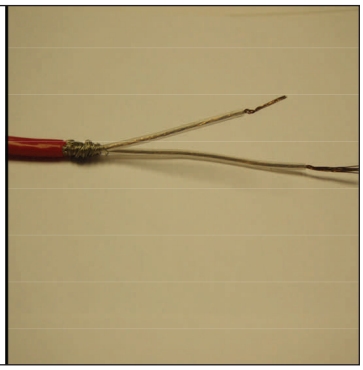
Remove the surplus earth braid leaving approx. 10mm of the braid exposed.



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.

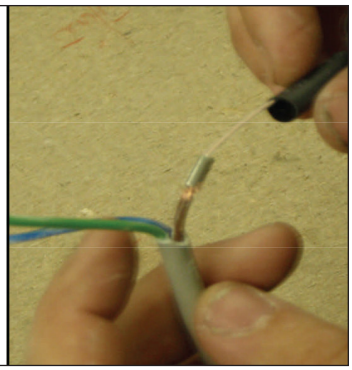


6

Attach butt crimp to the heating cores crimping once and slide the small heat shrink over each core of the heating element.

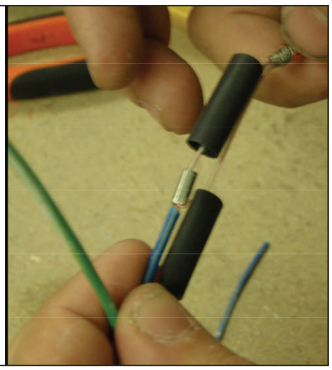
7

Attach the first heating element core to the Live from the power supply cable . Crimping once.

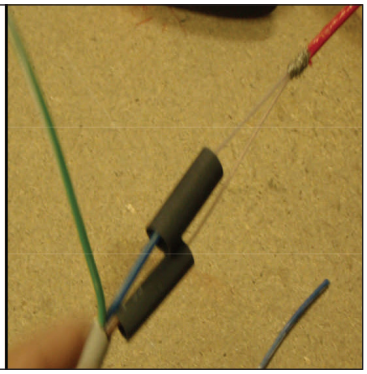


8

Line up the Neutral and attach to the heating element core, Crimping once.



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)



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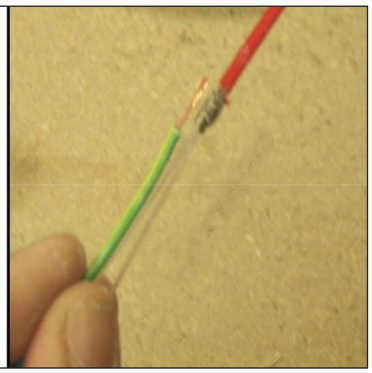
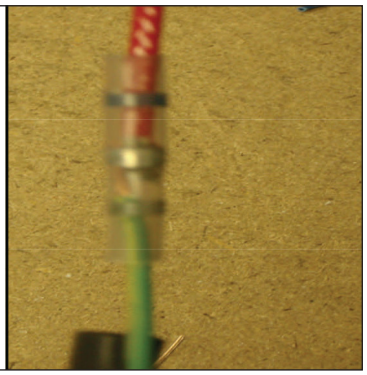
Line up the earth braid with the earth from the supply cable.



10

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



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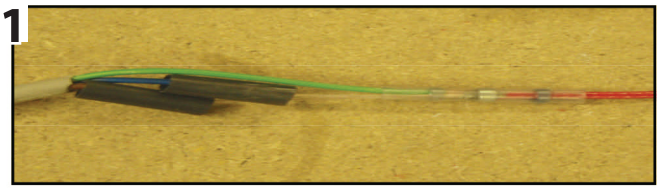
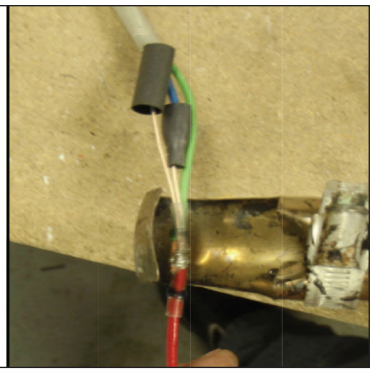


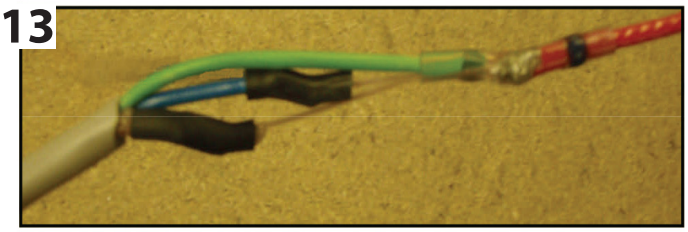
The joint should now look like this.
(Re-test the heating element before shrinking down the heat shrink.)

12

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



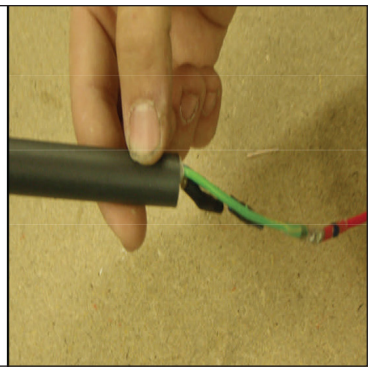
13



The joint should now look like this.

14

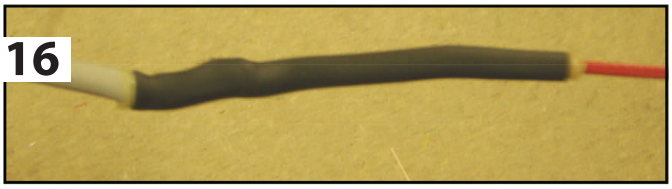
Slide the large heat shrink over entire joint.



15

Shrink large heat shrink using a heat gun.

16



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