

## 201-3160 Heat Shield Kit

## Instruction: INS1073

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This kit includes all the tools and materials you need to protect heat sensitive areas of an assembled circuit board from excessive heat exposure during rework operations. This kit is ideal for the protection of adjacent components at risk of collateral heat damage during hot gas BGA rework.



During component rework, protection of nearby components is often mandatory to avoid collateral heat damage or inadvertent reflow.

The kit includes sheets of aluminized heat shielding material, aluminum plates, high temperature liquid mask, high temperature tape, scissors and a variety of tools.

### 235-4010 Heat Shield Blanket

These are 5" x 7" sheets of fiberglass fabric, aluminum foil laminate with a pressure-sensitive adhesive backing. Heat Shield Blanket is designed to reflect 90% of the radiant heat energy. It will withstand continuous heat in the leaded and lead-free solder melt temperature range as well as short term exposure at temperatures up to 1000°F/538°C.

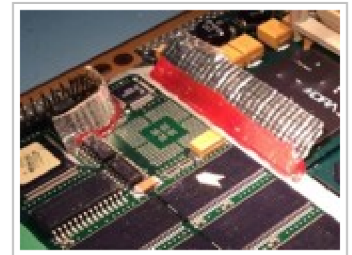


Figure 1.

Figure 1 shows #235-4010 Heat Shield Blanket protecting components and a connector prior to installation of a BGA component.

Heat Shield Blanket is recommended over Heat Shield Plates for more demanding heat protection. Heat Shield Blanket can be used in conjunction with Heat Shield Plates to create more robust thermal shield with a more rigid structure.

Heat Shield Blanket has an adhesive backing and is protected with a release liner. The release liner must be removed and discarded prior to use.

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#### 235-4060 Heat Shield Plates

These are light gauge 5" x 7" aluminum sheets used primarily when simple heat deflection is required. Heat Shield Plates are easy to size, cut, form and bond or tape into place using the High Temperature Mask or High Temperature Tape supplied in the kit.

Aluminum is a good conductor of heat. When using Heat Shield Plate material to deflect heat leave a small space between the Heat Shield Plate and the component or area being protected to avoid direct contact transfer of heat.

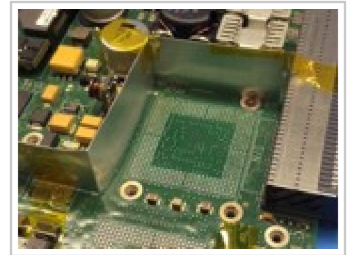


Figure 2.

Figure 2 shows 235-4060 Heat Shield Plate cut to shape and held in place with High Temperature Tape.

#### 115-9010 Mask, High Temperature

This product is a high temperature, quick cure, synthetic latex, peel-able solder mask supplied in syringes with dispensing needles. This mask can be used to create free form heat shielding or used to seal the edges Heat Shield Blanket or Heat Shield Plates. Product cures at room temperature in 5 minutes. Once dried, it can be peeled off after use.

For detailed instructions covering a range of repair and rework procedures see [www.circuitrework.com/guides/guides.html](http://www.circuitrework.com/guides/guides.html)

Includes the following items.

Qty	Part No. / Item
Pkg/5	235-2108-5 Foam Swab, Large
Pkg/5	235-4060 Heat Shield Plates, 5" x 7"
5	115-3315-5 Mixing Picks
1	335-3150 Scissors, 8"
1	290-2075 Tape, High Temperature

Qty	Part No. / Item
Pkg/5	235-4010 Heat Shield Blanket, 5" x 7"
Pkg/3	115-9010 Mask, High Temperature
1	335-3195 Probe
1	335-3197 Scraper