

Figure 1

1. INTRODUCTION

OPTIMATE Heat Cure Oven Assemblies 502134-[] are designed to cure epoxy used to terminate fiber optic cable to OPTIMATE fiber optic connectors.

NOTE



Measurements are in metric units [with U.S. customary units in brackets]. Figures and illustrations are for reference only and are not drawn to scale.

Reasons for reissue of this instruction sheet are provided in Section 7, REVISION SUMMARY.

2. DESCRIPTION (Figure 1)

Each heat cure oven assembly includes a heat cure oven, heat cure block, thermometer, cable support rod, and cable support bracket. The heat cure oven features a thermostat control dial and a heater lamp.

NOTE



Custom-designed heat cure blocks are available to meet specific customer requirements. For ordering information, refer to Section 6 or contact **PRODUCT INFORMATION** at the number at the bottom of this page.

The heat cure oven is designed with a well in which the heat cure block sits. The thermostat control dial regulates the temperature ranging from 50°C to 125°C [122°F to 257°F] and can be maintained within $\pm 1.0^\circ\text{C}$ [$\pm 1.8^\circ\text{F}$]. To precisely monitor the temperature, insert the thermometer into the heat cure block. The heater lamp indicates power is being supplied through the thermostat to the heating element. The cable support rod prevents the fiber optic cable from sagging during the heat curing process. To hold the cable in position, the adjustable support bracket is secured to the support rod with a thumbscrew.

3. SETUP (Figure 2)

1. Place the heat cure oven assembly in a draft-free location near a **grounded** (three-prong) electrical outlet. The electrical outlet must meet the power requirements marked on the back of the heat cure oven.

NOTE



If an extension cord is used, make sure it is a grounded, three-wire type.

2. Insert the heat cure block inside the well of the heat cure oven.
3. Insert the thermometer in a spare cavity of the heat cure block.
4. Screw the cable support rod into the threaded hole in the center of the heat cure block.
5. Assemble the cable support bracket to the rod at the desired height. Tighten the thumbscrew.

DANGER



DO NOT use the oven in an environment where flammable vapors may be present.

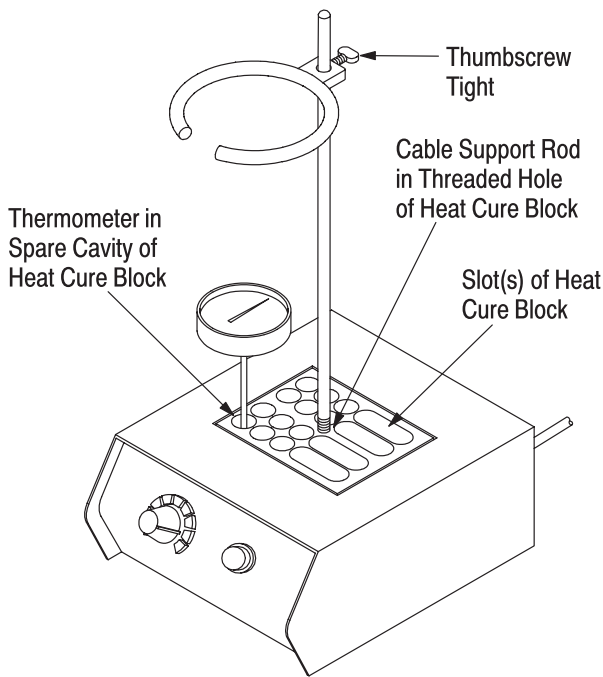


Figure 2

4. OPERATION PROCEDURES

DANGER



To avoid personal injury, turn power switch OFF and DISCONNECT the heat cure oven when not in use.

1. Insert the plug into the electrical outlet, and move the power switch (located on the back of the oven) to the "ON" position.

NOTE



The heater lamp will be lit when power is being supplied to the heating element and then will flicker to indicate the oven is turning itself on and off to maintain a constant temperature.

2. Determine the temperature range by referring to the instruction sheet packaged with the connector; then set the thermostat control dial. "0" on the dial provides an approximate temperature of 50°C [122°F] and "10" on the dial is approximately 125°C [257°F]. Adjust the dial according to the temperature shown on the thermometer.

DANGER



To avoid fire or explosion, DO NOT heat material above the recommended curing temperatures.

3. Check thermometer at frequent intervals to determine if the desired temperature is being reached. When the temperature has stabilized,

adjust the thermostat control dial to raise or lower the temperature as required.

4. Insert the prepared connector into a slot in the heat cure block. To achieve the desired cure, do not place connector in the oven until the required temperature has been reached.

DANGER



To avoid accidental burns, DO NOT touch the heat cure block when inserting or removing a connector.

CAUTION



DO NOT damage any fiber extending from the connector.

5. For the recommended curing time, refer to the instruction sheet packaged with the connector. After curing is completed, carefully remove the connector from the heat cure block.

5. DAILY MAINTENANCE

Turn the power switch to "OFF" and unplug heat cure oven from the power source before cleaning the oven or performing any maintenance or repairs. Allow the oven to cool to room temperature *before* removing the heat cure block.

CAUTION



UNDER NO CIRCUMSTANCES SHOULD THE OVEN BE IMMERSSED IN WATER.

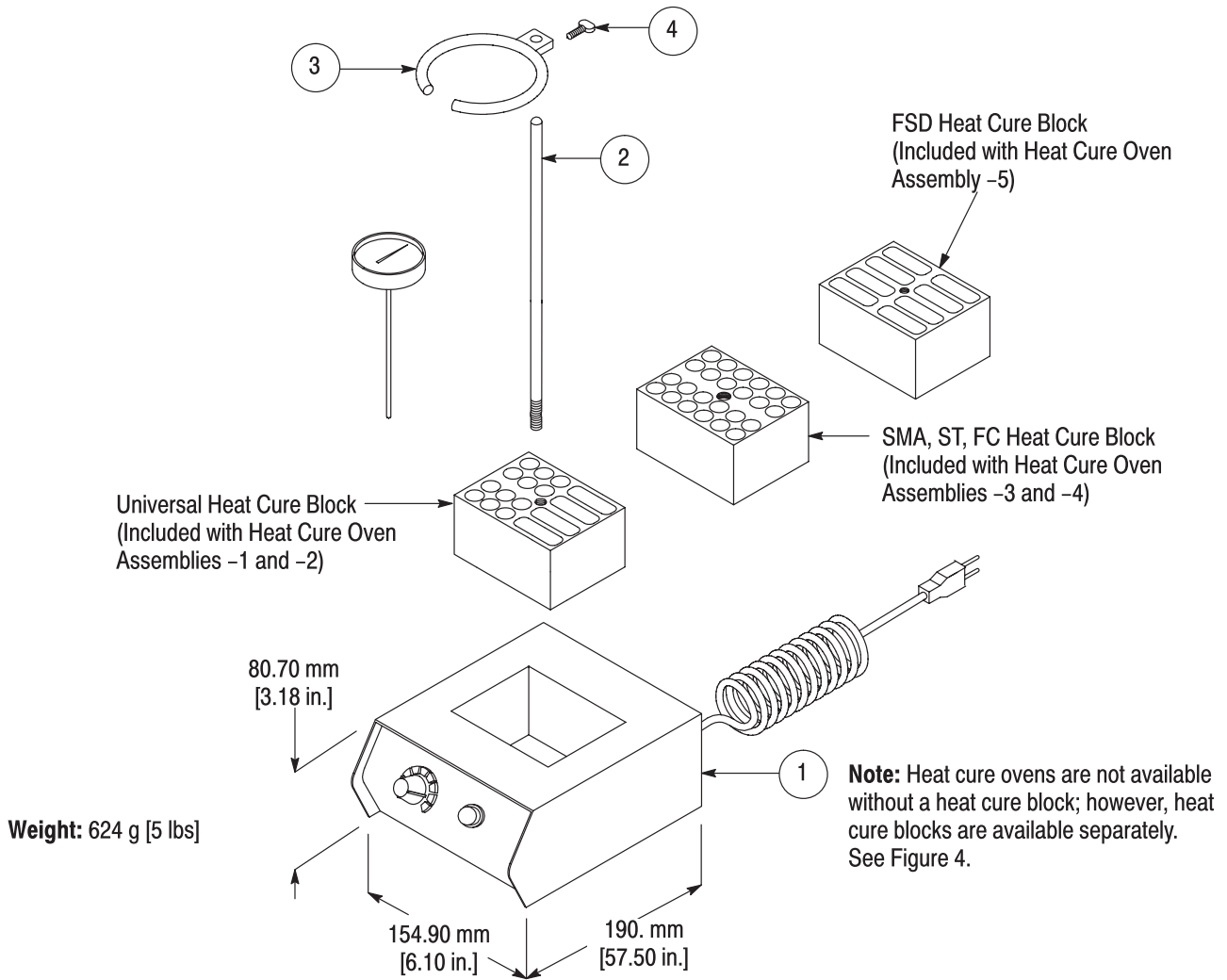
Wipe the exterior of the cabinet and the oven well with a wet cloth using a mild detergent and water. Allow the oven to dry completely before reconnecting the power source or installing any fixtures.

6. REPLACEMENT AND REPAIR

Customer-replaceable parts are listed in Figure 3. A complete inventory should be stocked and controlled to prevent lost time when replacement of parts is necessary. Parts other than those listed should be replaced by Tyco Electronics to ensure quality and reliability. Order replacement parts through your representative, or call 1-800-526-5142, or send a facsimile of your purchase order to 717-986-7605, or write to:

CUSTOMER SERVICE (038-035)
TYCO ELECTRONICS CORPORATION
PO BOX 3608
HARRISBURG PA 17105-3608

For customer repair service, call 1-800-526-5136.



REPLACEMENT PARTS

ITEM	PART NUMBER FOR ASSEMBLY					DESCRIPTION	QTY PER ASSEMBLY
	502134-1	502134-2	502134-3	502134-4	502134-5		
1	502130-1	—	502130-3	—	502130-5	HEAT CURE OVEN, 120 Vac	1
	—	502130-2	—	502130-4	—	HEAT CURE OVEN, 240 Vac	1
2	502131-1					CABLE SUPPORT ROD	1
3	502132-1					CABLE SUPPORT BRACKET	1
4	502133-1					THUMBSCREW	1

Figure 3

HEAT CURE BLOCKS (Available Separately)

502276-1	Universal Heat Cure Block, 16 Single Connectors
502129-1	SMA, ST, FC Heat Cure Block, 24 Single Connectors
502222-1	FSD Heat Cure Block, 8 Single Connectors

Figure 4

7. REVISION SUMMARY

Revisions to this instruction sheet include:

- Updated document to corporate requirements
- New format
- Deleted thermometer from table in Figure 3
- Removed “AMP” logo on oven in all instances