

LIMITED WARRANTY

Thank you for purchasing the Corning Optical Communications cable assembly house (CAH) oven.

To become familiar with all aspects of the curing process using the CAH oven, please carefully read the procedures described in this manual before attempting to operate the machine.

The CAH oven is warranted to be free from defects in material and workmanship for a period of one (1) year from the date of shipment. Any equipment found to be defective during the warranty period may be returned to the factory, with advance authorization, for repair without charge. Buyer shall prepay all transportation charges for such return.

This warranty does not apply to units that have been repaired or altered by an unauthorized person, or that have been subject to misuse, negligence, or accidental damage. Neither does it apply to items considered to be consumables or that must be replaced periodically due to normal operation and use of the equipment.

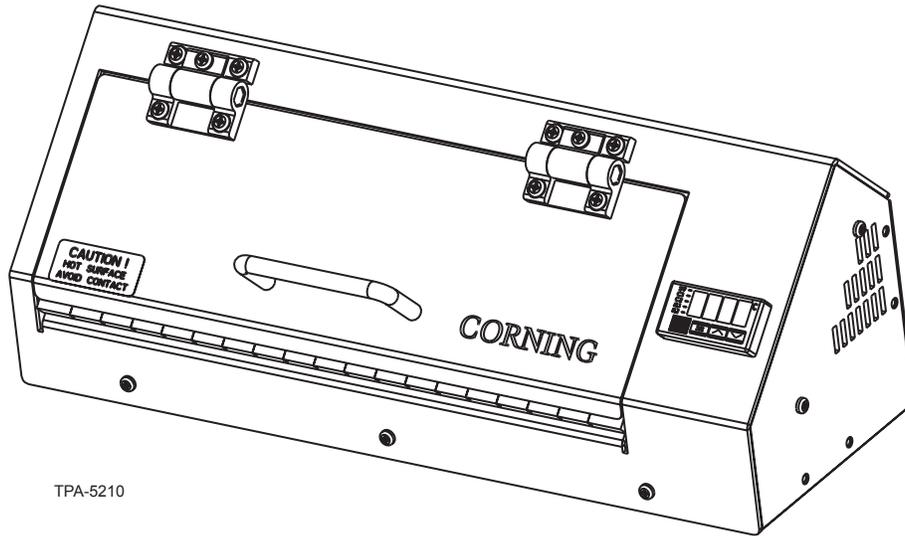
Corning's sole and exclusive obligations and liabilities under these warranties are and shall be limited to issuance of credit for, repair of, or replacement of any goods or parts thereof. Corning Optical Communications shall have sole discretion as to which of these remedies it shall provide as warranted. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

A complete explanation of Corning's warranties, terms, and conditions of sale may be found on the reverse side of Corning's Quotations, Order Acknowledgement and/or invoice forms and only the warranty appearing thereon is to be considered Corning's Warranty.

All inquiries regarding repairs should be directed to the Customer Care Department, Corning Optical Communications, P.O. Box 489, Hickory, NC 28603-0489; (828) 327-5000. This will assure you the fastest service possible.

Defective units should be returned to Corning Optical Communications whether repairable or not. Corning Optical Communications performs failure analysis on returned products not covered by warranty to ensure continued product reliability. Returned material claimed defective, but found to meet all previously applicable specifications are subject to a \$75.00 minimum evaluation charge. Returned material not accompanied by a complete statement of claimed defects will be returned at the originator's expense.

Please obtain written authorization from Corning Optical Communications prior to returning any products to the factory.



TPA-5210

Figure 1

1. General

This instruction describes operation of the cable assembly house (CAH) oven manufactured by Corning Optical Communications.

2. Precautions

	<p>WARNING: Uncured epoxy adhesives consisting of resin and hardener components may cause dermatitis, skin sensitization or other allergic reactions. Prevent all contact with skin or eyes. The use of disposable plastic or rubber gloves is recommended while using the epoxy. If contact occurs, flush immediately with plenty of water. Get medical attention for eyes. Avoid prolonged inhalation of vapors and use adequate ventilation.</p>
	<p>CAUTION: Corning recommends the use of safety glasses (spectacles) conforming to ANSI Z87 for eye protection from accidental injury when handling chemicals, cables, or working with fiber. Pieces of glass fiber are very sharp and have the potential to damage the eye.</p>
	<p>CAUTION: Isopropyl alcohol is flammable with a flashpoint at 54°F. It can cause irritation to eyes on contact. In case of eye contact, flush eyes with water for at least 15 minutes. Inhaling fumes may cause mild dizziness. In case of ingestion, consult a physician..</p>
	<p>CAUTION: Cleaved or broken glass fibers are very sharp and can pierce the skin easily. Do not let these pieces of fiber stick to your clothing or drop in the work area where they can cause injury later. Use tweezers to pick up cleaved or broken pieces of glass fibers and place them on a loop of tape kept for that purpose alone. Good housekeeping is very important.</p>
	<p>CAUTION: Fiber optic cable is sensitive to excessive pulling, bending, and crushing forces. Consult the cable specification sheet for the cable you are installing. Do not bend the cable more sharply than the minimum recommended bend radius. Do not apply more pulling force to the cable than specified. Do not crush the cable or allow it to kink. Doing so may cause damage that can alter the transmission characteristics of the cable; the cable may have to be replaced.</p>
	<p>WARNING: Do not operate the oven with the outer case open. Doing so may result in severe burns.</p>

3. Determine Connector Type

The connector type being cured determines the angle at which the oven should be placed during operation. When curing most ferrules, the oven should sit securely on its base during operation as shown in Figure 1. However when curing a 2-, 4-, or 12-fiber MT ferrule, end cap brackets must be installed to prevent the epoxy from draining out of the ferrule.

The end cap brackets and eight Phillips machine screws are provided with the CAH oven. Using four screws per end cap bracket, secure one bracket to each end of the CAH oven (Figure 2). Orient the flanged feed toward the oven.

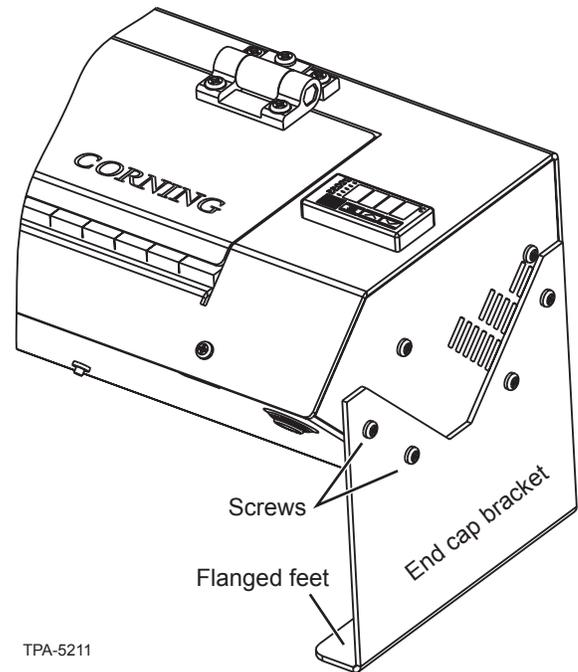


Figure 2

4. Set Oven Curing Temperature

Refer to the Standard Recommended Procedure (SRP) for the connector being used to determine the temperature required to cure that type of connector.

Turn power on to the oven. Ensure that the vents at the back and sides of the oven remain clear of obstructions to maintain proper cooling of the electronics inside the oven.

The temperature controller is located on front of the oven to the right of the door (Figure 3).

Step 1: Press the Select (SEL) key to set the appropriate temperature. The Set Value (SV) indication lamp will now be illuminated in red.

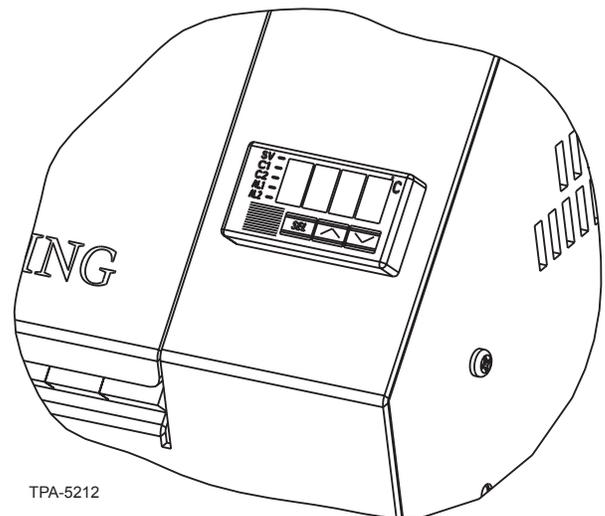


Figure 3



CAUTION: The safe operating temperature range of the oven is between 15-150 degrees Celsius. Take precautions to keep hands and fingers from coming in contact with the hot plate.

Step 2: Press the up or down buttons until the display indicates the curing temperature (Celsius) required for the connector being cured.

Step 3: Press the SV key once more to set this temperature and return to the operational mode. The SV indication lamp will turn off.

Step 4: Upon returning to the operational mode, the controller will display the current temperature of the oven. Wait until the display reaches the temperature previously set in Step 2 above. The oven is now ready for the connectors to be loaded.

5. Load Connectors into the Oven

- Step 1:** Open the oven door. The oven door should remain open. If the door will not stay open, adjust the hinges by using a Phillips screwdriver on the adjustable friction hinges. Once the door remains open, place the connector in one of the 18 slots in the aluminum hot plate. Ensure that the connector is in the upper half of the plate for maximum effectiveness in curing the epoxy (Figure 4).
- Step 2:** Lock the connector in place by pressing the fiber jacket into the slot of the foam block. Load up to 18 connectors into the oven and shut the door.
- Step 3:** Determine the appropriate time required to cure the epoxy being used. After that time has elapsed, open the door and remove the cured connectors.

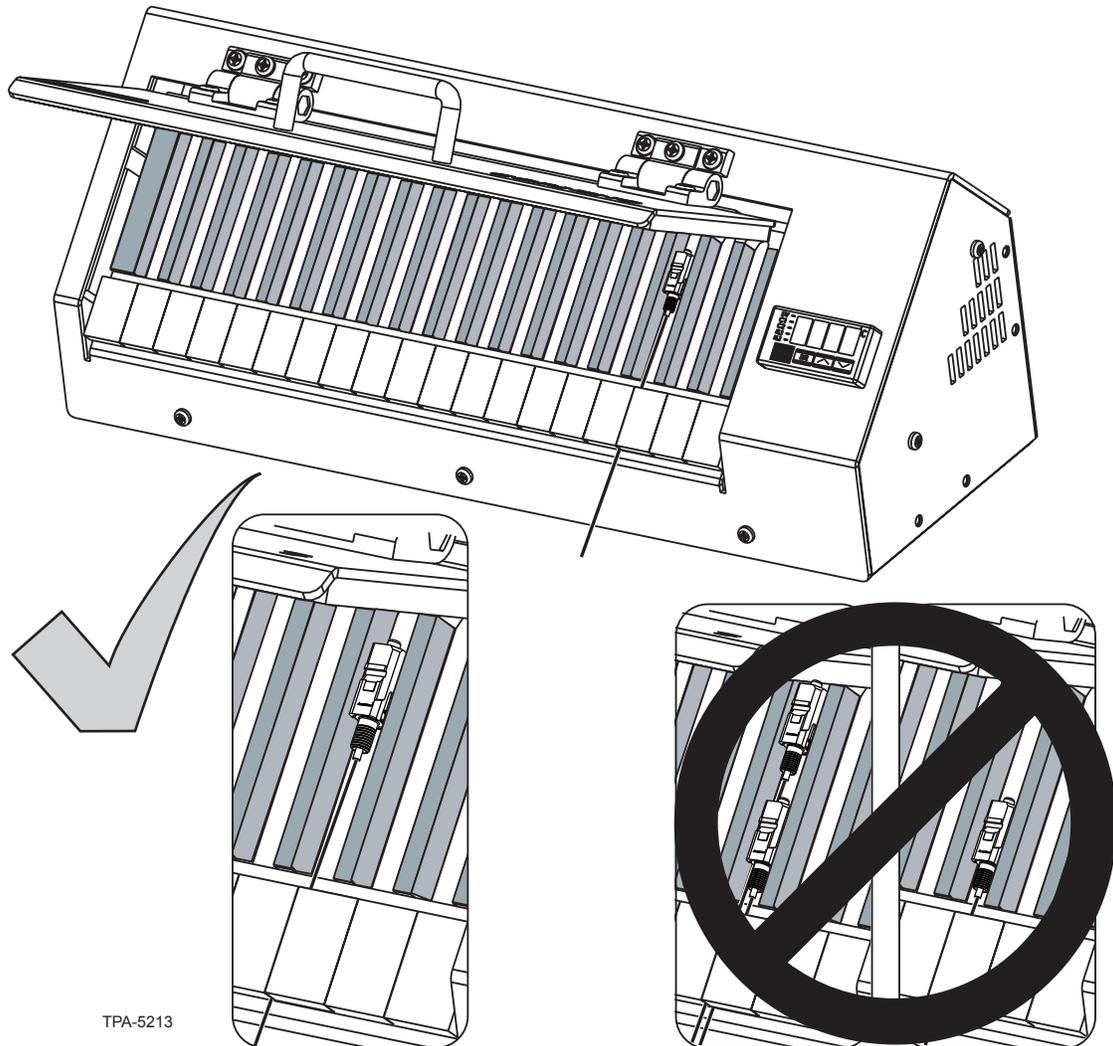


Figure 4

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