

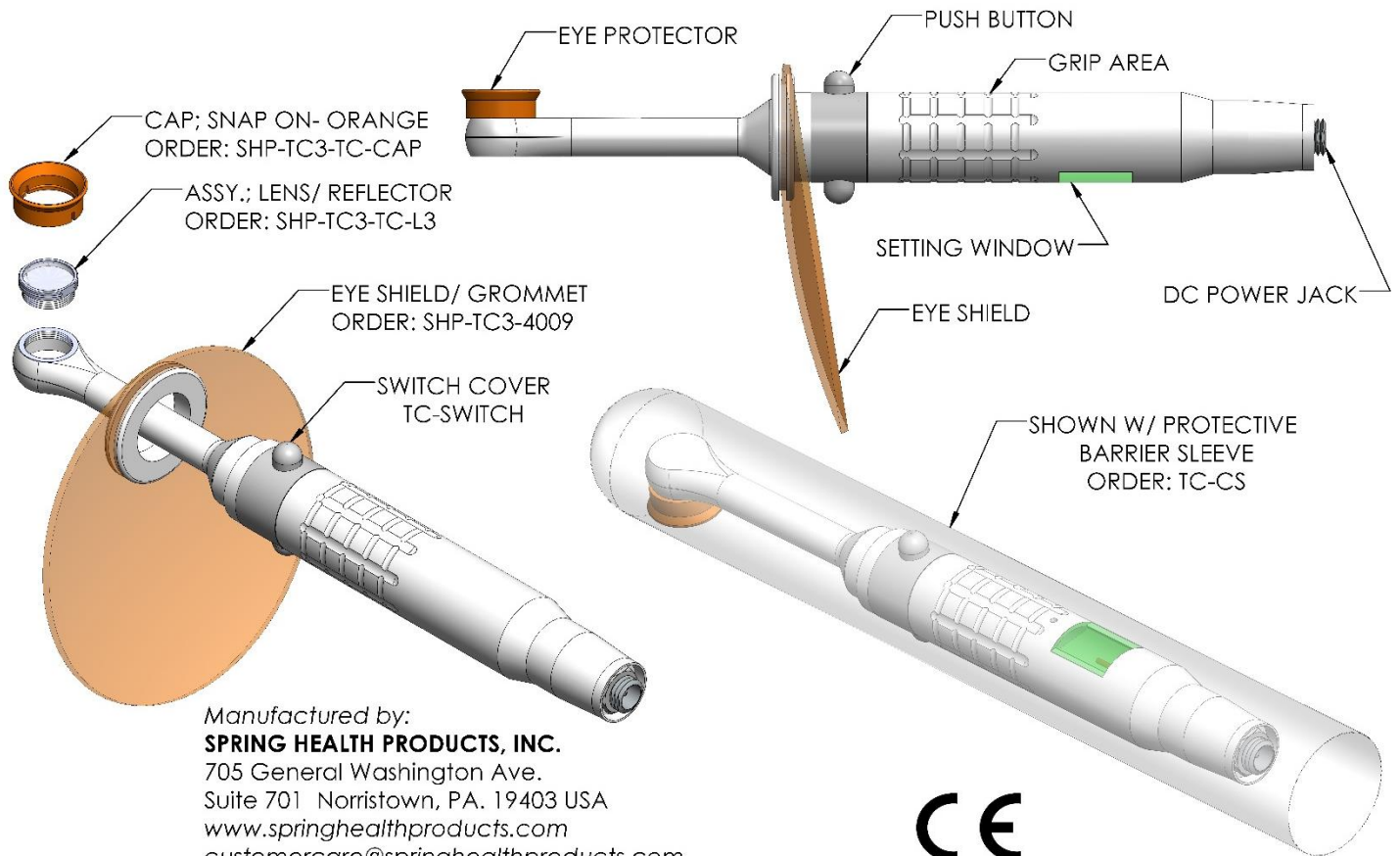
OPERATIONAL MANUAL

for the Spring Health Products CURE Cordless TC-24A (silver)

Box Contents:

QTY.	DESCRIPTION
1	Cordless TC-24A with 11mm lens.
1	Power supply.
1	Light Shields- for eye protection.
50	Sleeves- for protective barrier.
1	Wrench- for changing lens.
2	Flat Surface Mount Hanger.
1	Operational Manual.

Reorder Sleeves- Box 400 #TC-CS



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1. DESCRIPTION

the CURE 24A is a LED dental curing light for the polymerization of dental composites, sealants and adhesives. *The CURE 24A* is designed for direct wired installation in a dental unit console providing 9 to 12 DC volts.

2. ERGONOMIC FEATURES

- a) Light weight
- b) Shape resembles a high-speed handpiece and can be held like one.
- c) Can be mounted with a flat mount surface hanger or Hard Handpiece Hanger (optional)
- d) Either of two buttons will activate light allowing for choice of finger positions.
- e) Surface for easy cleaning.

3. SPECIFICATIONS

- a) Hard wire enabled Proper installation in a 9 to 12 volts dental unit by a technician, recommended.
- b) Power Input 10 watts
- c) Voltage to Handpiece D/C regulated: 9 to 12 volts.
- d) Operation Continuous operation with intermittent loading. Duty cycle of 20 sec. Has 8 timer settings.
- f) Lamp Ultra-high output LED. Service center replacement only. Lifetime is 5000 hrs. minimum
- g) Output Wavelength 440 to 460 nm
- h) Output Intensity Greater than 1200 mw/cm²
- i) Thermal Safety Handpiece thermostat protection. Unit will shut off for a brief time and four beeps will be heard.
- j) Fuse Internal to handpiece. Automatic reset.
- k) Shutoff Automatic shutoff at the end of timed cycle or by pressing either button

4. CONTRADICTIONS

This LED has a narrow peak at 470 nm and should only be used on dental formulations containing camphorquinone as the photo initiator, it is contraindicated with other photo initiators. To date this is the only known resin that will not cure properly with this light: Pyramid Enamel (Bisco), Principle (DENTSPLY Caulk) and Den Mat (Core Build-up) The practitioner should perform a test outside of the mouth if in doubt.

5. SAFETY PRECAUTIONS

CAUTION: The light is provided in a non-sterile condition and must be disinfected prior to patient contact. and use a protective curing sleeve for each patient use.

CAUTION: This curing unit produces high output curing energy! A significant increase in curing energy is possible compared with equipment previously used. It is important to observe the following precautions and procedures. **CAUTION:** Do not place light directly on or towards unprotected gingival or skin.

CAUTION: Adjust the curing techniques in accordance with the increase in curing energy. Some examples are: decrease curing time, increase composite thickness, increase distance between the tip of the curing light and light cured materials. **CAUTION:** DO NOT LOOK DIRECTLY INTO THE LIGHT emitted from this curing unit. Do not use this device without suitable protective eyewear for the operator, assistant and patient. Suitable protective eyewear blocks all energy below 550 nm

ATTENTION: Safety protective barrier sleeves should be changed after each patient.

6. INSTALLATION

The CURE 24A is designed to be installed on a dental unit. Adhesive mounting clips are provided. You can also place onto your existing rail mounted handpiece hanger. Input power - A wall mounted power supply must be either 110v or 220v. Note: If you wish to hard wire and do not have a wall plugin power supply, the red and black wires can be hardwired input 9-12 volts DC.

7. CURE TIMES

A3 shades and lighter typically take 8-10 seconds to cure. Darker shades and flow-ables take more time. It is recommended that dentists run their own tests to confirm the full depth of the cure.

8. LIGHT MEASUREMENT

To ensure proper curing, a radiometer should be used on a regular basis to measure the light intensity. There should be little variation with the time since *the CURE 24A* lifetime is extremely long. If the reading drops off, check to see if the lens is clear. If not, clean or replace lens.

9. CLEANING / DISINFECTING

DO NOT IMMERSE IN LIQUID OR AUTOCLAVE UNIT. Thoroughly wipe off handpiece with cleaning solution or soap and water. Disinfect by thoroughly wiping down with alcohol, phenolic or Glutaraldehyde disinfectants per the disinfectant manufacturer's instructions. Disposable curing sleeves are recommended for each use.

10. LIABILITY

Spring Health considers itself responsible for the safety and performance of the product only if the installation and modifications are done by persons authorized by Spring Health; the electrical installation meets local requirements; and the equipment is used in accordance with these instructions.

11. WARRANTY

The TC-24A comes with 12 months warranty for parts and labor from date of purchase. To register for warranty: email customer@springhealthproducts.com Include all contact information and phone and email address. Also include serial number and invoice. One year Warranty card enclosed in light box.