

IDEAL®

Self-Igniting Heat Shrink Torch

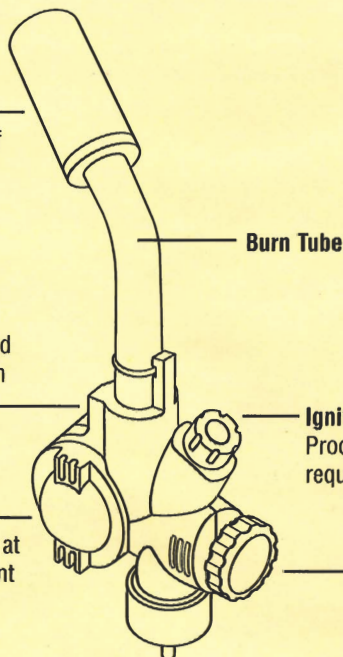
General Safety

1. Read and follow the operating instructions to familiarize yourself with IDEAL's Torch before lighting or using. Do not try to operate this product before reading these instructions.
2. Keep the Torch out of reach of children and anyone who has not read the instructions. Do not point the Torch towards your face, other persons or any flammable objects.
3. Always wear safety glasses and protective gloves. Use the proper tools necessary to handle hot work.
4. Disconnect the Torch from the cylinder when not in use. This will prevent the possibility of any propane gas leaking from the cylinder into the atmosphere.
5. Never attempt to modify the Torch's construction and never use unapproved accessories or fuels.
6. Be cautious when using the Torch outdoors on sunny or windy days. Bright sun makes it difficult to see the Torch's flame. Wind may carry the Torch's heat back towards you or other areas not intended to be heated. Windy conditions may also cause sparks to be blown into other areas with combustible materials.
7. Heating a surface may cause heat to be conducted to adjoining surfaces that may be combustible or become pressurized when heated. Always check to make sure no unintended parts or materials are being heated.
8. Work only in well-ventilated areas. Avoid the fumes from fluxes, lead-based paint and all metal heating operations. Be extra careful to avoid fumes from cadmium plating and galvanized metal. Remove these coatings from the area prior to heating.
9. Always place your work on firebrick. If you are not sure it is firebrick, do not use it. Ordinary brick or concrete can explode when subjected to high temperatures. Do not work on wood or metal surfaces!

1" Wide Brass Burn-Tip —
Accommodates a variety of
Heat Shrink applications

Venturi – Air Intake Vent
Combines propane gas and
air to provide the optimum
flame setting

Regulator —
Controls the gas flow rate at
a constant speed to prevent
flaring in all positions



Ignite Button
Produces the spark
required to ignite the gas

**Regulator Valve
Adjustment Knob**
Controls gas volume

Figure 1. Heat Shrink Torch Operation Features

Lighting and Operation

1. Turn the red Regulator Valve Adjustment Knob on the Torch clockwise until it stops at the "OFF" position. See Figure 1. **DO NOT FORCE.**
2. Hold the Torch with one hand and connect the 14- or 16-oz. Propane Tank (not supplied) onto the brass threads of the Torch.



ONLY USE PROPANE FUEL WITH IDEAL HEAT SHRINK TORCH. USING ANY OTHER TYPE OF FUEL COULD CAUSE DAMAGE TO THE TORCH.

3. Check the threaded connection between the Torch body and the Propane Tank with soapy water to make sure there are no leaks. If a leak is detected, tighten and check again.



NEVER USE A FLAME TO CHECK FOR LEAKS.

4. Turn the Regulator Valve Adjustment Knob **counter-clockwise a ¼ turn** until you hear gas escaping from the Propane Tank. Point the Torch in a safe direction and "DEPRESS" the Ignite Button. Repeat depressing the Ignite Button if necessary.
5. The Torch should now be lit. Use the Regulator Valve Adjustment Knob to obtain the desired flame length by turning this Knob to the full "ON" position, then back off approximately ½ to 1 full turn or as required. Do not operate the Torch with a flame length of less than 1" or you will damage the burn-tip.

If the Torch Does Not Light

1. Check the Regulator Valve to make sure that the knob is adjusted approximately $\frac{1}{4}$ turn from the full clockwise position. See Figure 1.
2. Depress the Ignite Button several times and listen for the sound of propane gas traveling through the Burn Tube. If you do not hear any sound, attach a new propane gas cylinder and test again.

Troubleshooting

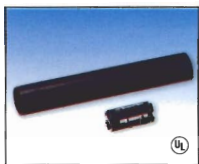
Under normal operating conditions, the Burn-Tip will not get excessively hot but you should use caution when handling the Heat Shrink Torch to protect yourself and others from accidental burns. The following conditions will cause the burn-tip to overheat and can increase the possibility of operator burns or damage to the Torch.

1. **A Clogged Orifice.** If a sudden change in the flame pattern develops and the burn-tip overheats, this could indicate a clogged orifice.
2. **Flame Adjustment.** Rotate the Regulator Valve Knob clockwise or counter-clockwise as required.
3. **Heating In Enclosed Areas.** Working in extremely close areas may cause the Burn-Tip to overheat. Always work in a well ventilated area and use a heat shield if necessary.
4. **Low Gas Pressure.** After long periods of use, the pressure in the propane gas cylinder may be too low to force the flame to burn outside the burn-tip. Attach the Torch to a new propane gas cylinder. If normal burning resumes for at least 30 seconds, properly discard the old propane gas cylinder.
5. **Operating The Flame On Too Low Adjustment.** Always operate the Torch with a primary flame of at least 1". Operating the Torch with a flame too low will cause the burn-tip to overheat. Always light the Torch with the Regulator Valve Knob adjusted to a $\frac{1}{4}$ turn counter-clockwise from the fully closed position.
6. **Adjusting The Burn Tube.** During periods of heavy use, the Burn Tube may become loose. Locate the set screw on the Burn Tube housing base above the Venturi Air Intake Vent. Re-tighten the set screw in the threaded hole of the Burn Tube housing base. Do not overtighten or you will strip the screw head.



DANGER

DO NOT ATTEMPT TO MAKE ANY REPAIRS ON THE TORCH BODY OR ITS INTERNAL MECHANISMS. ANY ADJUSTMENTS OTHER THAN THE ADJUSTMENTS DESCRIBED IN THESE INSTRUCTIONS WILL VOID ALL WARRANTIES ON THIS TORCH.



UF Cable Splice Kit

UF Cable Splice Kit makes direct burial of UF cable a quick and reliable process. The kit simplifies splicing UF cable through the use of an adhesive-lined thick wall heat shrink tube to eliminate the need for epoxies, tape or separate mastics. The kit includes a 4-position connector and a piece of heat shrink tubing designed to splice and insulate 8 to 14 AWG UF cable. UL listed, rated to 600 volts maximum and 105°C.



Self Sealing UF Splice Kit

Eliminates the need of a heat shrink source through the use of uniquely designed interference fit covers. Create a direct burial UF splice that is fully waterproof, submersible and re-enterable. This kit eliminates use of epoxies, tape or mastics. The kit includes a connector, silicone lubricant, and interference fit covers. Accommodates 14 to 10 AWG wire sizes. 600 volt maximum and 105°C.



UF Stretcher Kit

The UF Stretcher Kit provides a full 11.5" connection to repair a 7-10 inch section of UF cable that has been accidentally damaged by a cable trencher or back hoe. The kit provides a quick and reliable repair by utilizing IDEAL's adhesive-lined thick wall heat shrink tubing. It eliminates the need for epoxies, tapes or separate mastics to create a waterproof, fully submersible splice. The kit includes one 4-position 11.5" connector and one piece of heat shrink tubing, to splice and insulate 14 to 8 AWG UF Cable. The Stretcher Kit is UL listed, rated to 600 volts maximum and 105°C.



Copper Butt Splice Kits

Designed to simplify splicing copper conductors from 2 AWG to 14 AWG. Slotted set screws in splices require only a standard screwdriver to splice the conductor. These splice kits utilize a low cost mechanical butt splice and thick wall heat shrink tubing to create a fully insulated butt splice. UL listed, rated to 600 volts maximum and 105°C.



Dual Rated Butt Splice Kits

For use with aluminum and copper conductors. The kits include an adhesive-lined thick wall heat shrink tube and one mechanical connector. Popular splicing applications include repair and/or extending type USE cable. Eliminates expensive crimping tools when splicing aluminum or copper conductors for direct burial.



Heavy Wall Heat Shrink Tubing

This tough, versatile heat shrink tubing can be used for insulation, harnessing and strain relief in a variety of residential, industrial and commercial applications. The benefits include a shrink ratio of 3 to 1 that is flexible, flame retardant, and resistant to common fluids and solvents.



Thin Wall Heat Shrink Tubing

Thin wall tubing electrically protects in-line components, terminals and splices. It is very flexible, flame-retardant and resistant to common fluids and solvents. Meets all UL and CSA requirements.

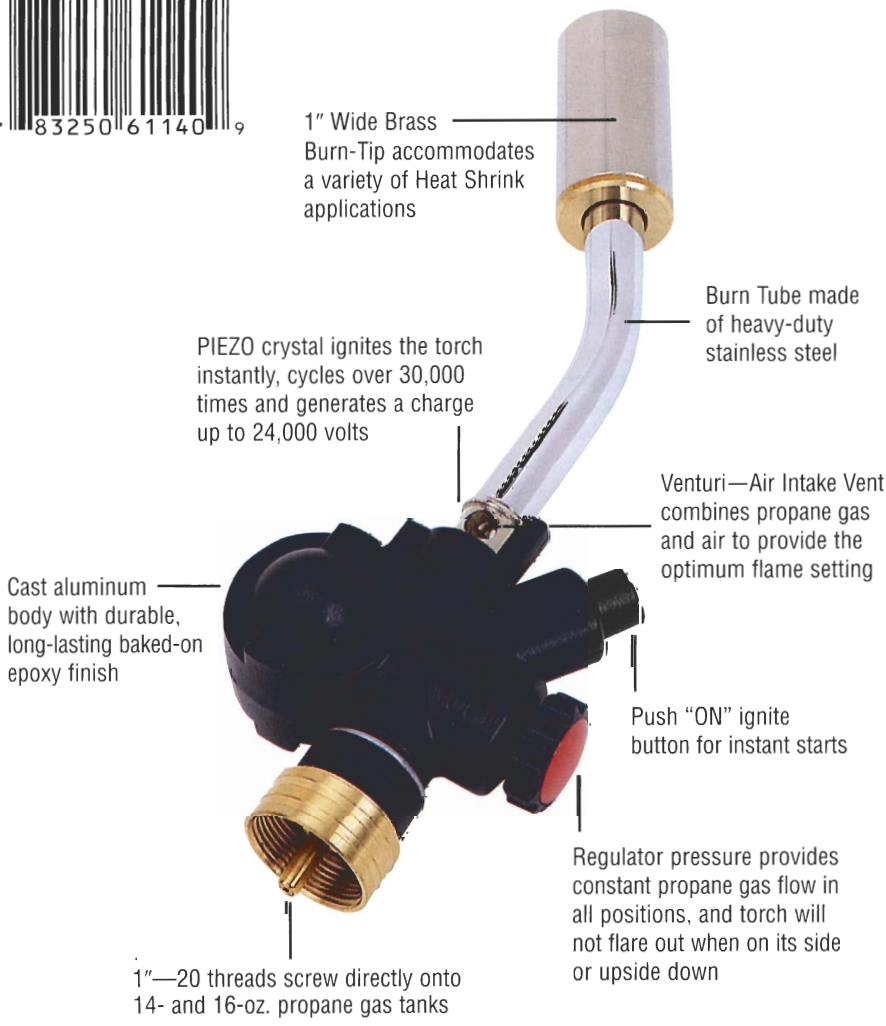


Heat Shrinkable End Caps

End caps create a watertight seal to protect the ends of power and control cords. Coated with hot melt adhesive to effectively protect against oxidation, ozone, UV radiation, etc.



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1" Wide Brass
Burn-Tip accommodates
a variety of Heat Shrink
applications

Burn Tube made
of heavy-duty
stainless steel

PIEZO crystal ignites the torch
instantly, cycles over 30,000
times and generates a charge
up to 24,000 volts

Venturi—Air Intake Vent
combines propane gas
and air to provide the
optimum flame setting

Cast aluminum
body with durable,
long-lasting baked-on
epoxy finish

Push "ON" ignite
button for instant starts

Regulator pressure provides
constant propane gas flow in
all positions, and torch will
not flare out when on its side
or upside down

1"—20 threads screw directly onto
14- and 16-oz. propane gas tanks

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