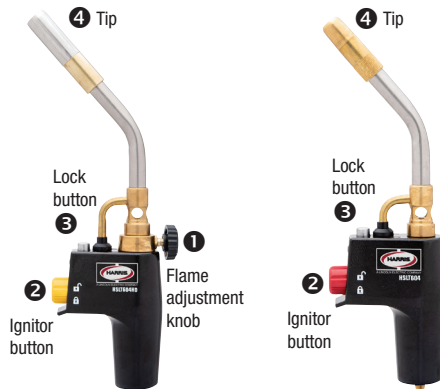




A LINCOLN ELECTRIC COMPANY

HSLT604HD & HSLT604MD ELECTRONIC IGNITION TORCH OPERATING INSTRUCTIONS



HSLT604HD - Figure 1 HSLT604MD - Figure 2

PROPER FLAMES - DRAWING A



Flame too short - Tip will overheat, causing damage



Incorrect, unstable flame pattern - Too much gas



Correct, stable flame pattern - 1/2" - 1" minimum flame

⚠ DANGER

Torch is used with a flammable product. Failure to comply with these warnings and instructions may result in an explosion or fire that may cause property damage, serious personal injury or death.

Read and comply with the instructions and warnings in this manual and become familiar with Torch before lighting and using.

Review instructions and warnings periodically to maintain awareness. Do not try to operate before reading instructions.

Torch is to be used only with handheld gas cylinders specifically designated for use with torches. To avoid possible severe electrical shock, DO NOT use Torch if was previously damaged,

modified or immersed in water. If Torch was modified or damaged, replace or repair. If Torch is still in wet condition, allow Torch to thoroughly dry before using the igniter feature.

⚠ WARNING

Materials used in the construction of this device may contain brass (which may contain lead). Lead is a chemical known to the State of California to cause birth defects or other reproductive harm.

Combustion by-products produced when using this device contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

- Keep Torch out of reach of children and anyone who has not read instructions. Do not point Torch towards face, other persons or flammable objects. Never attempt to use Torch as a cigarette lighter.
- Disconnect cylinder when not in use.
- Never attempt to modify Torch construction.
- Never use unapproved accessories or fuels.
- Do not drop, throw, or otherwise abuse the Torch.
- Do not use a leaking, damaged or malfunctioning Torch.
- Always wear safety glasses and protective gloves. Use proper tools to handle hot-work.
- Radiant energy can harm the eyes. Wear approved glasses having an appropriate lens shade number (see 29 CFR 1926.102).
- Work only in well-ventilated areas. Avoid fumes from fluxes, lead-based paint, and all metal heating applications, as well as fumes from cadmium plating and galvanized metal. Remove any coatings from the area to be heated by filing or sanding prior to using Torch.
- Never use Torch to strip lead paint.
- Be careful when using Torch in bright light or windy conditions. Bright light makes it difficult to see the Torch's flame. Windy conditions may carry the Torch's heat or flame back towards the operator or other areas not intended. Windy conditions may also cause sparks to be blown into other areas with combustible materials.
- Heating a surface may cause adjoining surfaces to become combustible or pressurized. Always check to make sure no unintended parts or materials are being heated.
- The tip of the torch will get extremely hot during use and remain hot for a period of time after use. Take precautions to protect the operator and others from accidental burns.
- Never use Torch on or near combustibles. Use caution around motor vehicles or any gasoline-fueled equipment. Be aware of hidden fuel lines and tanks.
- Always make certain Torch is placed on a level surface when connected to the fuel cylinder to reduce the risk of accidental tip over. Be sure Torch is not pointed in a direction that could cause nearby objects to ignite when Torch is set down.
- Be careful not to overheat surrounding materials. Use a heat shield when necessary.
- Never leave Torch unattended when lit.
- Never attempt to repair or heat a gasoline tank, chemical drum, aerosol can, or compressed gas

container that previously held flammable liquid or gas, or any other chemical. Heating these is extremely dangerous, even after they have been emptied because vapors may still be in the container.

- Always have a fire extinguisher and bucket of water near Torch and work area.
- Torch consumes oxygen and must only be used in well-ventilated areas. Do not use in a confined space.

ASSEMBLY

1. Turn Ignition Button ② to LOCKED position.
2. For Model HSLT604HD, make sure regulator valve is OFF by turning Flame Adjustment Knob clockwise until it stops. Do not force. (Note: Model HSLT604MD is factory preset and is not equipped with a Flame Adjustment Knob feature.)
3. Hold Torch so that burn Tip ④ is pointing away from persons and flammable materials. Turn and thread gas cylinder into regulator/torch body. Hand tighten only. Do not force.
4. Check all joints and couplings periodically to ensure against loose connections. With valve open, without igniting, test all connections with soapy water using an approved leak detecting solution. If bubbles appear, gas is leaking and Torch must be repaired or replaced. **NEVER USE AN OPEN FLAME TO CHECK FOR LEAKS. Make sure this test is done in a well-ventilated area free from all sources of ignition.**

LIGHTING AND OPERATION

⚠ CAUTION

Tipping the gas cylinder more than 60 degrees from its upright position may cause Torch to flare. Torch has a built-in regulator that controls pressure and reduces the risk of pulsating or yellow flames when used in other than an upright position. For best performance, it is recommended to start working with a full hand torch cylinder at room temperature and to keep Torch upright as much as possible.

MODELS HSLT604HD & HSLT604MD: Figures 1 & 2:

1. Open fuel supply fully by turning Flame Adjustment Knob ① counter clockwise until it stops. Do not force. Always open valve fully when igniting Torch to prevent damage to the torch system.
2. Never look into the Tip ④ or point in an unsafe direction.
3. Turn the Ignition Button ② to the UNLOCK position.
4. Point Torch in a safe direction and pull Ignition Button ② toward you until it "clicks." Repeat if necessary, if flame does not ignite.
5. Keep Ignition Button ② depressed and adjust the flame size by turning the Flame Adjustment Knob ① until the Proper Flame is achieved (See Drawing A). (Model HSLT604MD is factory pre-set and has no Flame Adjustment Knob.) When Ignition Button ② is released, the flame is automatically extinguished.

To engage Flame Lock feature:

1. While Ignition Button ② is depressed, press Flame Lock Button ③ to lock flame ON for continuous operation.
2. To release Flame Lock, pull Ignition Button ② until Flame Lock Button ③ releases.
3. Release Ignition Button ② to extinguish flame.

After use:

1. Turn the Ignition Button ② to LOCKED position.
2. Make sure the regulator closes by turning Flame Adjustment Knob ① clockwise until it stops. Do not force. (This step is not necessary on Model HSLT604MD.)
3. Remove cylinder from torch when not in use.
4. With Torch disconnected from the cylinder, UNLOCK Ignition Button, ② point torch in a safe direction, and activate Ignition Button ② to release gas that may be trapped in Torch. Lock Ignition Button. ②

⚠ ADDITIONAL WARNINGS

- Make sure Torch is cool before installing or removing cylinder and accessories. Using Torch with a low flame can cause damage to the torch system.
- Check all joints and couplings periodically to ensure against loose connections. With valve open, without igniting, test all connections with soapy water using an approved leak detecting solution. If bubbles appear, gas is leaking and Torch must be repaired or replaced. **NEVER USE AN OPEN FLAME TO CHECK FOR LEAKS. Make sure this test is done in a well-ventilated area free from all sources of ignition.**
- In cold weather, the size of the flame will be smaller. To produce a larger flame, pre-warm the cylinder to room temperature prior to use.

STORAGE

REMOVE CYLINDER FROM TORCH WHEN NOT IN USE

1. Turn Ignition Button ② to the LOCKED position. Make sure valve is closed by turning flame Adjustment Knob ① clockwise until it stops turning. Do not force. (Note: Model HSLT604MD is factory pre-set and is not equipped with a Flame Adjustment Knob ① feature.)
2. When Torch is cool, disconnect cylinder and store torch and cylinder separately and out of reach of children. Observe precautions on cylinder label.
3. Do not expose cylinders to temperatures in excess of 120°F.
4. Store cylinders in well-ventilated areas.

MORE INFORMATION

For further questions regarding service or the safe and proper operation of Torches, please contact:

The Harris Products Group Technical Service Dept. at 1.800.733.4043 or harrisproductsgroup.com.

