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## DXH8BX OPERATING INSTRUCTIONS AND OWNERS MANUAL

# DEWALT®

CE 0086

**PORTABLE PROPANE (G31) AND BUTANE/PROPANE MIXTURE (G30 + G31)  
HEATER FOR RECREATIONAL, COMMERCIAL AND EMERGENCY INDOOR USE**

**USE HEATER  
WITH THREADED  
CARTRIDGE ONLY**

**LANGUAGES INCLUDED:** ENGLISH, GERMAN, FRENCH, ITALIAN,  
SPANISH, DUTCH, PORTUGUESE, RUSSIAN, POLISH, FINNISH,  
SWEDISH, NORWEGIAN, DANISH



(1 Pound (450g) Propane  
Gas (G31)  
(Cartridge Not Included)



(450g) Butane /Propane  
Mixture Gas (G30+G31)  
(Cartridge Not Included)

**WARNING: If the information in this manual is not followed exactly, a fire or explosion may result causing injury or loss of life.**

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- A Propane (G31) or Butane/Propane mixture (G30+G31) cartridge not connected for use shall not be stored in the vicinity of this or any other appliance.
- WHAT TO DO IF YOU SMELL GAS
  - o Do not try to light appliance.
  - o Extinguish any open flame.
  - o Shut off gas to appliance.
- Service must be performed by a qualified service agency.

This is an unvented gas-fired portable heater. It uses air (oxygen) from the area in which it is used. Adequate combustion and ventilation air must be provided. Refer to page 3.

**IMPORTANT:** Read these instructions for use carefully so as to familiarize yourself with the appliance before connecting it to its gas cartridge. Keep these instructions for future reference.

**⚠️ WARNING:**

Every time a tank is connected to unit, connection must be checked for leaks in one or more ways: Apply soapy water to connection, look for bubbles, listen for hiss of escaping gas, feel for extreme cold, smell for rotten egg odor. If there is a leak on your appliance (smell of gas), take it outside immediately into a well ventilated flame free location where the leak may be detected and stopped. If you wish to check for leaks on your appliance, do it outside. Do not try to detect leaks using a flame, use soapy water. Any changes to this heater or its controls can be dangerous. **DO NOT** modify appliance.

**WARNING:** This appliance shall only be used with Vapor Pressure Propane 100%(G31) and Propane Butane Mixture 70/30 (G30+G31) fuels It may be hazardous to attempt to fit other types of gas cartridges.

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**⚠️ WARNING:**

Early signs of carbon monoxide poisoning resemble the flu, with headache, dizziness and/or nausea. If you have these signs, heater may not be working properly. Get fresh air at once! Have heater serviced

**⚠️ WARNING:** If the recreational or commercial enclosure does not have a window or roof vent, **DO NOT USE THIS HEATER INSIDE.** Use only in a well ventilated area.

**Caution:**

- Some carpets or linoleum surfaces may discolor if heater is placed directly on these floor coverings.
- When operating the heater at altitudes over 7,000 FT (2.13 km) above sea level the heater may shut off. (Please read the GENERAL INFORMATION)

**SPECIFICATIONS**

MODEL NO ..... DXH8BX  
 GAS TYPE ..... Propane (G31) Gas shall only be used with Coleman and Primus Power Gas 70/30 Butane/ Propane (G30+G31)  
 INPUT BTU/HR ..... 4,000(1.17 KW)(84 G/H) / 8,000(2.4 KW)(168 G/H)  
 INJECTION SIZE..... 0.91mm  
 CLEARANCE TO COMBUSTIBLES  
 TOP ..... 30"/76.2 cm  
 FRONT ..... 24"/60.96 cm  
 SIDES ..... 6"/15.24 cm  
 REAR ..... 0"

## GENERAL SAFETY INSTRUCTIONS

### THIS IS A HEATING APPLIANCE. DO NOT OPERATE THIS APPLIANCE WITHOUT THE FRONT WIRE GUARD INSTALLED. DO NOT ATTEMPT TO WARM OR COOK FOOD ON THIS HEATER.

- Do not use non-approved attachments on this heater. Do not modify appliance.
- Due to high temperatures, the appliance should be located out of traffic and away from combustible materials. (See SPECIFICATIONS)
- CAUTION: accessible parts may become very hot. Keep young children away from the appliance. Children and adults should be alerted to the hazard of high surface temperatures and should stay away to avoid burns or clothing ignition.
- Young children should be carefully supervised when they are near the appliance.
- Do not place clothing or other flammable material on or near the appliance.
- Do not operate heater in any moving vehicle such as leisure vehicles like caravans and auto caravans. Do not use in high rise flats, basements, bathrooms or bedrooms.
- This heater can also be used in a recreational or commercial enclosure with a window or roof vent. It may also be used outdoors.
- This heater requires a well ventilated location of 9 square inches (22.86 cm<sup>2</sup>) (example 3" /7.62 cm x 3" /7.62 cm opening) minimum for adequate ventilation during operation which is in accordance with national requirements for the supply of combustion air. Do not use other fuel burning appliances inside.
- GAS PRESSURE AT HEATER IS REGULATED AND FIXED AT 11" W.C.(27.4 millibar) IN ANY CASE DO NOT REGULATE OR REDUCE PROPANE(G31) OR BUTANE/PROPANE MIXTURE(G30+G31) CARTRIDGE SUPPLY PRESSURE TO HEATER!
- REGULATOR IN HEATER MUST ALWAYS BE IN PLACE DURING OPERATION.
- If the wire guard is removed for servicing, it must be replaced prior to operating the heater.
- The appliance should be inspected before each use. Frequent cleaning may be required. The control compartments, burner and circulating air passageways of the appliance must be kept clean, see MAINTENANCE.
- DO NOT use this heater if any part has been under water. Immediately call a qualified service technician to inspect the heater and to replace any part of the control system and any gas control, which has been under water.
- When used without adequate combustion and ventilation air, this heater may give off excessive CARBON MONOXIDE, an odorless, poisonous gas.
- Some people - pregnant women, persons with heart or lung disease, anemia, those under the influence of alcohol, those at high altitudes - are more affected by carbon monoxide than others.
- When heater is placed on the ground, make sure the ground is level and keep any objects at least 24 inches(60.96 cm) from the front of the heater. DO NOT MOVE THE APPLIANCE WHEN OPERATING, SHOCKS AND BUMPS MAY ACTIVATE THE SAFETY TIP OVER DEVICE. DO NOT LEAVE HEATER UNATTENDED OR WHERE CHILDREN MAY CAUSE THE HEATER TO TIP OVER. NEVER OPERATE THE HEATER WHILE SLEEPING!

## GENERAL INFORMATION

- This heater is safe for indoor use in small recreational enclosures, having means for providing combustion air and ventilation, such as tents, cabins, fishing huts, and enclosed porches. It may be used for emergency indoor heating when connected to a disposable 1 lb.(465g) propane (G31) OR 450g Butane/Propane mixture (G30+G31) cartridge and for indoor use in commercial enclosures, having means for providing combustion air and ventilation, such as construction trailers or temporary work enclosures.
- Note: The heater can be used outdoors, but may experience nuisance shutoffs due to certain wind conditions.
- When the heater is cold or at room temperature, it will take a few minutes for the burner tile to turn bright orange. This is normal and the heater is working properly. If burner tile is visibly flaming, turn heater off and call a qualified service technician.
  - When the unit is lit, there should be about a quarter inch (1/4"- .635 cm) border around the tile that will not turn bright orange. This is normal.
  - When operating the heater for the first time, the top area of the reflector may discolor. This is also normal and is no reason for concern.
  - When operating the heater at altitudes over 7,000 FT (2.13km). above sea level, the unit may not burn as bright as in lower altitudes. This is normal. At higher altitudes, the heater may shut-off. If this happens, provide fresh air, wait 5 minutes and re-light. Due to local atmospheric conditions heater may not re-light.
  - Operating time will vary depending on the heater setting and the supply cartridge size. Up to 3 to 6 hours on a 1 lb. propane (G31) cartridge or 3 to 6 hours on a 450G 70/30 Butane/Propane mixture (G30+G31) cartridge . Up to 48 to 110 hours on a 20 lb.(5KG) cartridge (based on "HJ" and "LO" settings). Due to the properties of Propane gas (G31), run times can be significantly reduced when operating continuously at temperatures below 20°F.
  - This heater is equipped with a tip-over safety switch. Nuisance shut-downs may be experienced if the unit is bumped or moved. if this occurs simply relight the heater.
  - Due to natural operation of small tanks, condensation may build up on tank and drip on surface under heater. Sometimes this condensation may freeze due to the extreme cold caused when propane (G31) vaporizes. This is normal and no reason for alarm.

**WARNING****Asphyxiation Hazard**

- Do not use in unventilated areas
- The flow of combustion and ventilation air must not be obstructed
- Proper ventilation air must be provided to support the combustion air requirements of the heater being used.
- Refer to the specification section of the heater's manual, heater dataplate, or contact the factory to determine combustion air ventilation requirements of the heater.
- Lack of proper ventilation air will lead to improper combustion
- Improper combustion can lead to carbon monoxide poisoning leading to serious injury or death. Symptoms of carbon monoxide poisoning can include headaches, dizziness and difficulty in breathing.

**Fuel Gas Odor**

Propane gas(G31) and butane/propane mixture (G30+G31) gases have man-made odorants added specifically for detection of fuel gas leaks. If a gas leak occurs you should be able to smell the fuel gas. Since Propane (G31) is heavier than air you should smell for the gas odor low to the floor. **ANY GAS ODOR IS YOUR SIGNAL TO GO INTO IMMEDIATE ACTION!**

- Do not take any action that could ignite the fuel gas. Do not operate any electrical switches. Do not pull any power supply or extension cords. Do not light matches or any other source of flame. Do not use your telephone.
- Get everyone out of the building and away from the area immediately.
- Close all propane (G31) gas tank or cartridge fuel supplyvalves, or the main fuel supply valve located at the meter if you use natural gas.
- Propane gas(G31) is heavier than air and may settle in low areas. When you have reason to suspect a propane leak, keep out of all low areas.
- Use your neighbor's phone and call your fuel gas supplier and your fire department. Do not re-enter the building or area.
- Stay out of the building and away from the area until declared safe by the firefighters and your fuel gas supplier.
- **FINALLY**, let the fuel gas service person and the firefighters check for escaped gas. Have them air out the building and area before you return. Properly trained service people must repair any leaks, check for further leakages, and then relight the appliance for you.

**Odor Fade Warning****Odor Fading - No Odor Detected**




- Some people cannot smell well. Some people cannot smell the odor of the man-made chemical added to propane(G31). You must determine if you can smell the odorant in these fuel gases.
- Learn to recognize the odor of propane gas (G31). Local propane gas (G31) dealers will be more than happy to give you a scratch and sniff pamphlet. Use it to become familiar with the fuel gas odor.
- Smoking can decrease your ability to smell. Being around an odor for a period of time can affect your sensitivity to that particular odor. Odors present in animal confinement buildings can mask fuel gas odor.
- The odorant in propane gas (G31) is colorless and the intensity of its odor can fade under some circumstances. If there is an underground leak, the movement of gas through the soil can filter the odorant.
- Propane gas (G31) odor may differ in intensity at different levels. Since Propane gas (G31) is heavier than air, there may be more odor at lower levels.
- Always be sensitive to the slightest gas odor. If you continue to detect any gas odor, no matter how small, treat it as a serious leak. Immediately go into action as discussed previously.

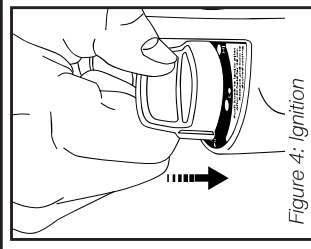
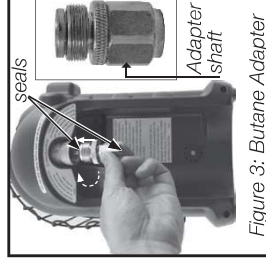
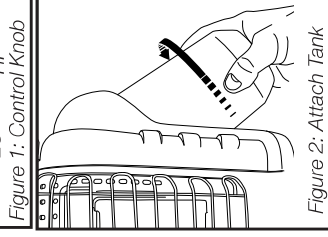
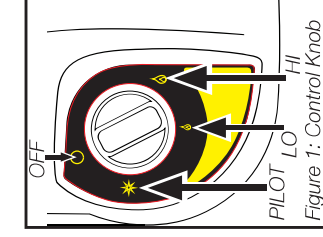
**ATTENTION - CRITICAL POINTS TO REMEMBER!**


- Propane gas (G31) or Butane/Propane mixture (G30+G31) has a distinctive odor. Learn to recognize these odors. (Reference Fuel Gas Odor and Odor Fading sections above.
- Even if you are not properly trained in the service and repair of the heater, ALWAYS be consciously aware of the odors of propane gas(G31) and natural gas.
- If you have not been properly trained in repair and service of propane gas(G31) or Butane/Propane mixture(G30+G31) then do not attempt to light heater, perform service or repairs, or make any adjustments to the heater on the propane (G31) or Butane/Propane mixture(G30+G31) gas fuel system.
- A periodic sniff test around the heater or at the heater's joints; i.e. hose, connections, etc., is a good safety practice under any conditions. If you smell even a small amount of gas, CONTACT YOUR FUEL GAS SUPPLIER IMMEDIATELY. DO NOT WAIT!



## LIGHTING / OPERATING INSTRUCTIONS FOR USE WITH DISPOSABLE 1 LB. PROPANE (G31) OR 450G 70/30 BUTANE PROPANE MIXTURE (G30+G31) CARTRIDGES:

**WARNING:** Always inspect propane cartridge and heater propane/Butane adapter connections for damage, dirt, and debris before attaching propane cartridge. Do not use if head of cartridge is damaged, punctured or deteriorated. ALWAYS ATTACH OR DETACH CARTRIDGE OUTDOORS AWAY FROM FLAMES, OTHER IGNITION SOURCES, AND ONLY WHEN HEATER IS COOL TO TOUCH. NEVER SMOKE WHEN ATTACHING OR REMOVING PROPANE CARTRIDGE OR MAKING REMOTE CONNECTIONS!



- Use only 16.4 oz. (1 lb.) disposable propane (G31) cartridges that mate with No. 600 valve connection or butane/propane (70/30) (G30+G31) mixtures with thread type 7/16-28 ENF-F-2B.
- Check that seals (between the appliance and the gas cartridge) are in place and in good condition before connecting to the gas cartridge. Figure 3. Do not use an appliance which has damaged or worn seals. Do not use an appliance which is leaking, damaged or which does not operate properly
- Make sure four position Control Knob is in "OFF" position : see Figure 1.
- To use with propane: Swivel regulator outward for easy tank installation. Screw 1 lb. (465g) disposable Propane-gas (G31) supply cartridge clockwise (from bottom) into portable heater until hand-tight; see Figure 2. DO NOT use thread sealant on this connection.
- To use with Butane/Propane mixture (G30+G31): Screw brass adapter clockwise into portable heater regulator (from bottom) until tight. See Figure 3. Do not use thread sealant on this connection. Screw butane propane mixture cartridge into the adapter (clockwise), once the shaft on the adapter starts to turn the cartridge is connected, then fit the cartridge into the stand.
- Check adapter and cartridge connection for leaks with soapy water at the threaded connection under the domed plastic cover where the cartridge screws into the regulator. SEE WARNING! ON DOMED PLASTIC COVER.
- Turn Control Knob counterclockwise to "PILOT" position  and depress to light; see Figure 1 and Figure 4.
- If heater does not light, hold down for approximately 30 seconds; release and depress again. Repeat until pilot lights.
- After pilot lights, hold down for 30 -60 seconds and then release knob. Knob should return to fully extended position; To operate heater slightly depress knob and gently turn to lock in the "HI" position  to light burner tile. Leave

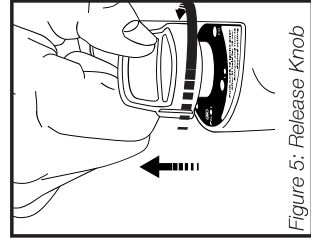


on "HI" position  until burner tile turns bright orange. Figure 5  
NOTE: Flare ups are common when first lighting the appliance. Keep your face and flammable objects away from the appliance.

- After burner tile has turned bright orange, adjust heat output by turning Control Knob to desired position ("LO"  or "HI"  setting) Figure 1.

**WARNING:** DO NOT OPERATE HEATER UNLESS CONTROL KNOB IS LOCKED IN A POSITION MARKED "HI" , "LO"  or "PILOT" . NEVER SET CONTROL KNOB BETWEEN LOCKED POSITIONS. POOR COMBUSTION AND HIGHER LEVELS OF CARBON MONOXIDE MAY RESULT.

- To shut off heater, slightly push down and turn Control Knob clockwise to "OFF" position .
- CAUTION: Accessible parts may become very hot. The guard on this appliance is to prevent risk of fire or injury from burns and no part of it should be permanently removed. IT DOES NOT GIVE FULL PROTECTION FOR YOUNG CHILDREN OR THE INFIRM. Allow to thoroughly cool before storing.
- Turn knob to "OFF" position . Check that burners are extinguished before disconnecting the gas cartridge. TO REMOVE PROPANE (G31) CARTRIDGE: Remove cartridge from stand and turn cartridge counterclockwise until it is fully unscrewed off of heater.
- TO REMOVE BUTANE/PROPANE MIXTURE (G30+G31) CARTRIDGE: Remove cartridge from stand and turn cartridge counterclockwise until it is fully unscrewed off of adapter.
- Once Cartridge is removed then the Butane adapter can be unscrewed turning counterclockwise until it is fully unscrewed off of the heater.
- Do not operate, store or remove cartridge near flammable items or ignition sources. Only change cartridges in a well ventilated location, preferably outside, away from any sources of ignition such as naked flames, pilots, electric fires and away from other people.
- Propane-GAS (G31) or Butane/Propane mixture (G30+G31) cartridges MUST BE DISCONNECTED FROM HEATER WHEN NOT IN USE! Make sure to check the seals before connecting a new gas cartridge to the appliance.



## MAINTENANCE:

**PRECAUTIONS TO BE TAKEN WHEN THE APPLIANCE IS NOT TO BE USED FOR A PERIOD OF TIME:** Always keep the heater area clear and free from combustible materials, gasoline and other flammable vapors and liquids. Store heater when it has cooled in a zippered bag or other sealed dust free location between uses. Keep the vent areas (slots in the bottom and the top at the front of heater) clear at all times. Visually inspect the pilot flame and burner periodically during use. The pilot flame should be blue in color (not yellow) and will extend beyond the thermocouple. The flame will surround the thermocouple just below the tip, see Figure 6. A slight yellow flame may occur where the pilot flame and main burner flame meet. The burner should be bright orange (with a slight blue color around the border, a red-orange haze that is visible on the ceramic tile is acceptable) and without a noticeable flame. A blue flame that rolls out at the top of the ceramic tile indicates an accumulation of dust, lint or spider webs inside the casing assembly and main burner assembly. If the pilot is yellow or the burner has a noticeable flame, cleaning may be required. Use the following procedure to inspect the casing assembly and main burner assembly. It is necessary to periodically check the burner orifice and burner venturi tube to make sure they are clear of insects/ nests or spider webs that may accumulate over time. A clogged tube can lead to a fire.

1. Allow heater to thoroughly cool before performing any maintenance.
2. Remove cartridge from heater or turn OFF gas supply at remote cartridge valve, and disconnect hose from heater.
3. Remove (4) four screws that secure the rear cover to the Heater.
4. Pivot cover outward from bottom. Release from 2 top clips. Set aside.
5. Remove (4) four burner retaining screws and Remove burner fuel line from burner assembly. Remove burner assembly from back of housing.
6. Inspect interior of casing assembly for accumulation of dust, lint or spider webs. If necessary, clean interior of casing assembly with a vacuum cleaner or apply air pressure. Do not damage any components within casing assembly when you are cleaning.
7. Inspect and clean main burner orifice (threaded into orifice holder). Orifice holder is attached to the burner assembly venturi with (2) two screws.

8. Inspect and clean pilot (mounted to bracket) by using a vacuum or apply air pressure through the holes in the pilot indicated by the arrows in Figure 6. **WARNING:** Never use needles, wires, or similar cylindrical objects to clean the pilot to avoid damaging the calibrated orifice that controls the gas flow.
9. Apply air pressure (max. 30 psi.) into ceramic tile of burner assembly and the venturi tube to remove dust, lint or spider webs.
10. Reassemble main burner orifice holder onto the burner assembly.
11. Reinstall burner assembly into the heater housing
12. Reinstall fuel line and check for leaks.
13. Install heater back cover.

## TROUBLESHOOTING INFORMATION:

### IF SPARK ELECTRODE DOES NOT PRODUCE SPARK, CHECK

- Spark electrode broken – replace ODS (Oxygen Depletion Sensor).
- Igniter wire may not be attached to spark electrode, ground wire may not be attached to frame - attach.
- Igniter wire damaged – replace.
- Piezo igniter defective – replace gas valve ass'y.

### IF SPARK ELECTRODE PRODUCES SPARK BUT PILOT DOES NOT LIGHT, CHECK

- No gas to heater – install disposable cartridge or connect hose and turn on valve at remote cartridge.
- "PILOT" position not properly aligned – turn gas control knob to "PILOT" position and depress.
- Pilot is blocked from spider web or dirt – clean pilot, see MAINTENANCE.

### IF PILOT FLAME DOES NOT STAY LIT WHEN KNOB IS RELEASED, CHECK

- Control knob in "PILOT" position not completely depressed or held in long enough to purge air from lines.
- Pilot flame not surrounding thermocouple – clean pilot, see MAINTENANCE.
- Pilot Assembly defective – replace.
- Tip switch wires disconnected – connect.

### IF MAIN BURNER DOES NOT IGNITE, CHECK

- Main burner orifice is blocked - clean burner, see MAINTENANCE.

### IF HEATER KEEPS SHUTTING "OFF" DURING NORMAL OPERATION, CHECK

- Pilot is blocked – clean pilot, see MAINTENANCE.
- Provide minimum fresh air opening of 9 square inches (15.24 square centimeters) (example 3" (7.62 cm) x 3" (7.62 cm) opening).
- Tip over switch activated from bumping heater. Re-light
- Regulator defective - Replace regulator.
- Internal contamination - Replace control valve and regulator.
- Call Technical Services for additional information.

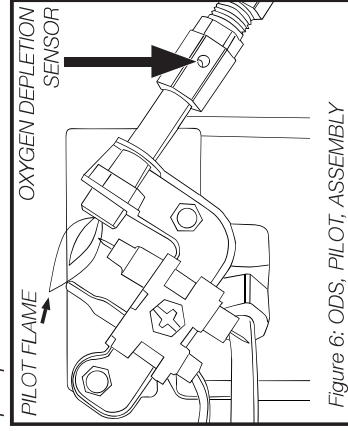


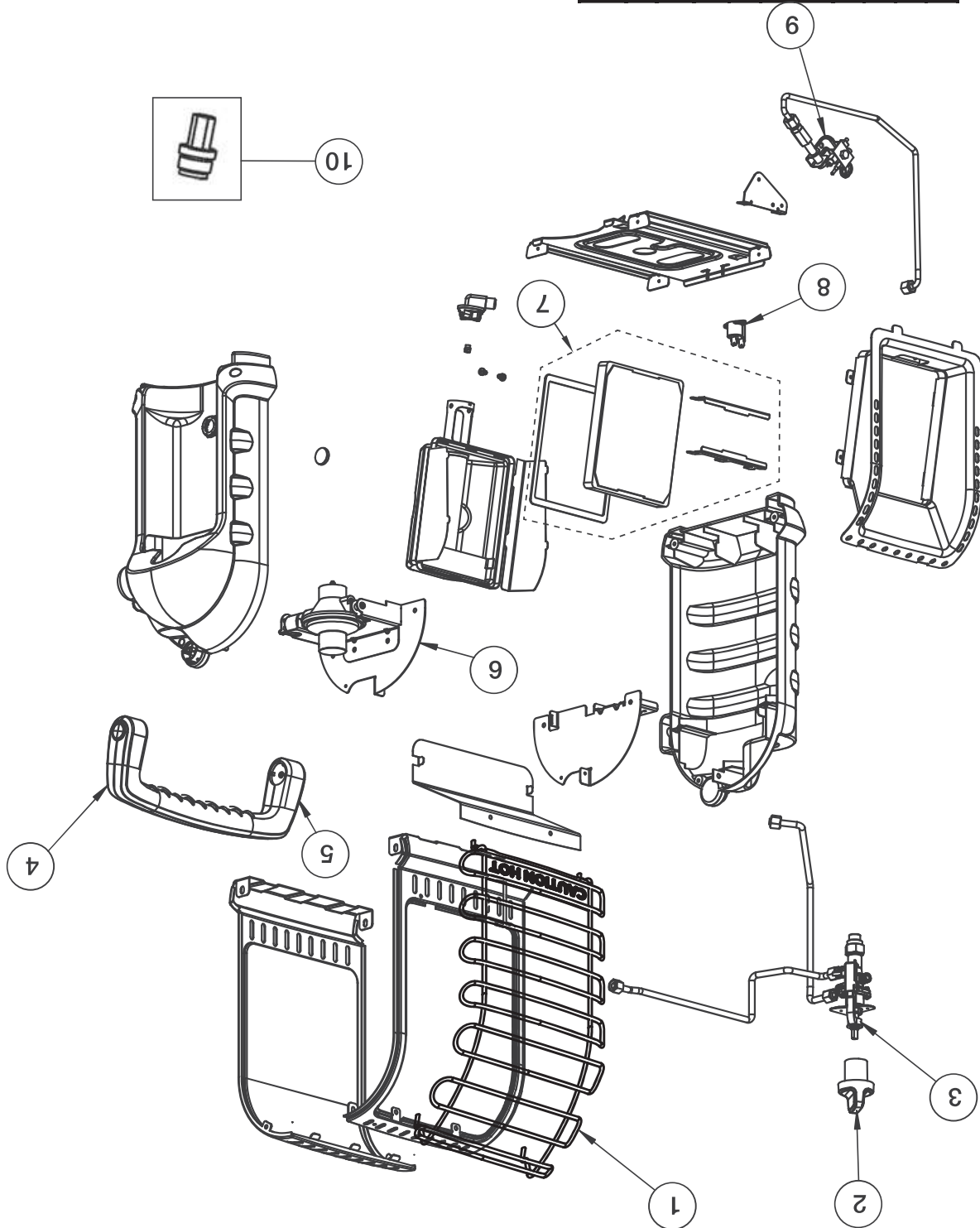
Figure 6: ODS, PILOT, ASSEMBLY

Item #	Description
32008	5 ft. (1.52m) PROPANE HOSE ASSEMBLY (Swivel 1"-20 Male Throwaway Cyl. Thd. X P.O.L. w/ Handwheel) (Recommended use with fuel filter.) F273699 Fuel Filter (Replace Annually)

**APPROVED MR. HEATER ACCESSORIES**  
**(sold separately)**

## **DXH8BX REPLACEMENT PARTS**

#	Description	Part #
1	Grill	32075
	Knob, Valve, Safety	32076
3	Valve, Assy, Control	32054
4	Handle, Back, Plastic, Black	32074
5	Handle, Front, Plastic, Black	32072
6	Assy. Regulator, w/Support	75198
7	Tile, Replacement Kit	33088
8	Switch, Tipover	73403
9	ODS, Pilot, Assy	73396
10	Butane Adapter	15159



**DeWALT • Portable Propane Heater • Model # DXH8BX**

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PORTABLE PROPANE (G31) AND BUTANE/PROPANE MIXTURE (G30 + G31) HEATER FOR RECREATIONAL, COMMERCIAL AND EMERGENCY INDOOR USE DXH8BX



### **Warning**

USE ONLY MANUFACTURER'S REPLACEMENT PARTS. USE OF ANY OTHER PARTS COULD CAUSE INJURY OR DEATH. REPLACEMENT PARTS ARE ONLY AVAILABLE DIRECT FROM THE FACTORY AND MUST BE INSTALLED BY A QUALIFIED SERVICE AGENCY.

### **PARTS ORDERING INFORMATION:**

**PURCHASING:** Accessories may be purchased at any DeWalt® local dealer or direct from the factory

### **FOR INFORMATION REGARDING SERVICE:**

Please call 1753-567055

[www.dewalt.co.uk](http://www.dewalt.co.uk)

[emeaservice@sbdinc.com](mailto:emeaservice@sbdinc.com)

Please include the model number, date of purchase, and description of problem in all communication.

### **LIMITED WARRANTY**

DeWalt® warrants its heaters and accessories to be free from defects in material and workmanship for a period of 2 years from date of purchase.

DeWalt® will repair or replace this product free of charge if it has been prove to be defective within the 2 year period, and is returned at customer expense with proof of purchase to DeWalt® within the warranty period.

For Sale in the following countries:



GB



DE



FR



ES



IT



NL



PT



RU



PL



DK



SE



FI



NO



LU



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CH



AT

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