

If you have questions or comments, contact us.

**855-805-5745 • [www.dewalt.com](http://www.dewalt.com)**

## INSTRUCTION MANUAL



For CANADA and MASSACHUSETTS sale  
Portable Propane Heater For Recreational, and Commercial Use DXH12B

**SAVE THESE INSTRUCTIONS**



**DANGER**



### ***CARBON MONOXIDE HAZARD***

***This appliance can produce carbon monoxide which has no odor.***

***Using it in an enclosed space can kill you.***

***Never use this appliance in an enclosed space such as a camper, tent, car or home.***

### **If you smell gas:**

1. Do not attempt to light appliance.
2. Extinguish any open flames.
3. Disconnect from fuel supply.

### **FOR YOUR SAFETY**

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

**READ INSTRUCTIONS CAREFULLY:** Read and follow all instructions. Place instructions in a safe place for future reference. Do not allow anyone who has not read these instructions to assemble, adjust or operate the heater.

**VEUILLEZ LIRE ATTENTIVEMENT LES INSTRUCTIONS :** Lisez et observez toutes les instructions. Conservez ces instructions dans un endroit sécuritaire pour vous y référer ultérieurement. Interdisez à quiconque n'ayant pas lu les présentes directives d'assembler, de régler ou de faire fonctionner cette fournaise.

**LEA CUIDADOSAMENTE LAS INSTRUCCIONES:** Lea y siga todas las instrucciones. Conserve estas instrucciones en un lugar seguro para futura referencia. No permita que nadie que no haya leído estas instrucciones arme, ajuste o use el calentador.

#### **Definitions: Safety Guidelines**

The definitions below describe the level of severity for each signal word. Please read the manual and pay attention to these symbols.

**⚠ DANGER:** Indicates an imminently hazardous situation which, if not avoided, **will** result in **death or serious injury**.

**⚠ WARNING:** Indicates a potentially hazardous situation which, if not avoided, **could** result in **death or serious injury**.

**⚠ CAUTION:** Indicates a potentially hazardous situation which, if not avoided, **may** result in **minor or moderate injury**.

**NOTICE:** Indicates a practice not related to personal injury which, if not avoided, **may** result in **property damage**.

**⚠WARNING:** Every time hose or 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. Do not use if leaking!

#### **⚠WARNING:**

When used without adequate combustion and ventilation air, this heater may give off excessive CARBON MONOXIDE, an odorless, poisonous gas.

**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.

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.

**⚠WARNING:** This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**⚠WARNING:** Any change to this heater or its controls can be dangerous.

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## Specifications

MODEL NO.: ..... DXH12B  
GAS TYPE: ..... PROPANE  
BURN RATE (BTU/HR): ..... 6,000 LO / 12,000 HI

### Minimum Clearances from normal combustible material

From outlet ..... 24 inches  
From top ..... 30 inches  
From Sides ..... 6 inches  
From Rear ..... 0 inches

 **WARNING: CERTIFIED FOR USE WITH PROPANE ONLY**

 **WARNING: CERTIFIED FOR USE WITH DeWALT RECHARGEABLE BATTERY PACKS. REFER TO LIST BELOW A LIST OF APPROVED BATTERIES.**

#### DeWALT 20V MAX batteries

- 1.3 Ah
- 1.5 Ah
- 2.0Ah
- 3.0Ah
- 4.0Ah
- 5.0Ah
- 6.0Ah

#### FLEXVOLT®

- 6.0Ah
- 9.0 Ah

**BATTERIES AND CHARGER ARE NOT INCLUDED.**

### Electronic Features (requires battery)

- 400 Lumens Light embedded in adjustable handle
- 135 CFM Fan
- 3 USB Power Outlets (5 Volts DC current, 2 Amps)

## General Information

**NOTE:** This heater can be used outdoors, but may experience nuisance shutoffs in certain wind conditions.

- A DeWALT battery is necessary only for Fan, USB Power Outlets, and Light operation.
- A Propane gas supply is necessary only for Heating operation.
- 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 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.
- The protective grill on the front of this heater is coated with a special high-temperature resistant paint. When the heater is used for the first time, the grill may give off noticeable smoke or fumes. This is normal and will not occur during subsequent uses. The fumes are not harmful.
- When operating the heater at altitudes over 7,000 FT. 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 then re-light. Due to local atmospheric conditions heater may not re-light.
- When moving heater when lit or bumping heater setting it down, the tip over switch may shut off heater. If this happens, relight.
- Due to natural operation of small tanks, condensation may build up on tank and drip on surface under heater.
- Operating time will vary depending on the heater setting, supply cylinder size, and temperature of the surroundings.

Operating Time Rough Estimates (High and Low)				
BTU/HR	1lb (0.45kg)	2 x 1lb (2 x 0.45kg)	20lb (9kg)	2 x 20lb (2 x 9kg)
6,000	3.5	7	72	144
12,000	1.5	3	36	72

## Odor Fade Warning

### 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

LP gas and natural gas 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 (LP) 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 (LP) gas tank or cylinder fuel supply valves, or the main fuel supply valve located at the meter if you use natural gas.
- Propane (LP) gas 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 a telephone remote from the area of the leak 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 Fading - No Odor Detected

- Some people cannot smell well. Some people cannot smell the odor of the man-made chemical added to propane (LP) or natural gas. You must determine if you can smell the odorant in these fuel gases.
- Learn to recognize the odor of propane (LP) gas and natural gas. Local propane (LP) gas 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 (LP) gas and natural gas 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 (LP) gas odor may differ in intensity at different levels. Since Propane (LP) gas 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 (LP) gas has a distinctive odor. Learn to recognize these odors. (Reference Fuel Gas Odor and Odor Fading sections on this same page)
- Even if you are not properly trained in the service and repair of the heater, ALWAYS be consciously aware of the odors of propane (LP) gas and natural gas.
- If you have not been properly trained in repair and service of propane (LP) gas then do not attempt to light heater, perform service or repairs, or make any adjustments to the heater on the propane (LP) 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!**

## 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.**

1. This heater is for outdoor use only.
2. REGULATOR IN HEATER MUST ALWAYS BE IN PLACE DURING OPERATION.
3. Due to high temperatures, the appliance should be located out of traffic and away from combustible materials. (See Specifications on page 3.)
4. Children and adults should be alerted to the hazard of high surface temperature and should stay away to avoid burns or clothing ignition.
5. Young children should be carefully supervised when they are near the appliance.
6. Do not place clothing or other flammable material on or near the appliance.
7. If the wire guard is removed for servicing, it must be replaced prior to operating the heater.
8. Do not use non-approved attachments on this heater.
9. 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 on page 7.)
10. 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.
11. **This heater requires a vent area of 12 square inches (example 3" x 4" opening) minimum for adequate ventilation during operation. Do not use other fuel burning appliances inside.**
12. GAS PRESSURE AT HEATER IS REGULATED AND FIXED AT 11" W.C. WHEN USING A REMOTE HOSE CONNECTION DO NOT REGULATE OR REDUCE PROPANE TANK SUPPLY PRESSURE TO HEATER!
13. Use only VAPOR WITHDRAWAL propane supply. If there is any question about vapor withdrawal, ask your propane dealer.
14. Do not leave this appliance unattended while it is in operation. Keep children and pets away from the appliance at all times.
15. When heater is placed on the ground, make sure the ground is level and abide by the Minimum Clearances to Normal Combustible Material on page 3.
16. Do not operate heater in any moving vehicle.
17. THIS HEATER IS EQUIPPED WITH A TIP OVER SWITCH THAT WILL SHUT THE HEATER OFF IF THE HEATER TIPS OVER HOWEVER DO NOT LEAVE HEATER UNATTENDED OR WHERE CHILDREN MAY CAUSE THE HEATER TO TIP OVER. NEVER OPERATE THE HEATER WHILE SLEEPING.

## Preparation for Operation

**⚠WARNING:** Always inspect propane cylinder and heater propane connections for damage, dirt, and debris before attaching propane cylinder. Do not use if head of cylinder is damaged, punctured or deteriorated.

ALWAYS ATTACH OR DETACH CYLINDER OUTDOORS AWAY FROM FLAMES, OTHER IGNITION SOURCES, AND ONLY WHEN HEATER IS COOL TO TOUCH. NEVER SMOKE WHEN ATTACHING OR REMOVING PROPANE CYLINDER OR MAKING REMOTE CONNECTIONS!

- Propane cylinder(s) must be disconnected from heater when not in use.
- The LP-gas cylinder(s) must be constructed and marked in accordance with the specifications for Cylinders, Spheres and Tubes for the Transportation of Dangerous Goods, CAN/CSA B339

## Pulse Ignition

The Pulse Ignition Button is located at the bottom of the USB Compartment (Figure 3, page 6). Unscrew the button cap to install the "AA" battery (included), with positive end toward the button.

## Lighting/Operating Instructions

### USE WITH DISPOSABLE 1 LB. PROPANE CYLINDER(S): START

- Use only 16.4 oz. (1 lb.) disposable cylinders that mate with No. 600 valve connection.
- Heater and attached cylinder must be in an upright position during operation.
- Make sure the four-position Control Knob is in "OFF" position (see Figure 1).
- Swivel regulator outward for easy tank installation. Screw 1 lb. disposable propane gas supply cylinder clockwise (from bottom) into portable heater until hand-tight; see Figure 2. DO NOT use thread sealant on this connection.
- Check cylinder connection for leaks with soapy water at the threaded connection under the domed plastic cover where the cylinder screws into the regulator. SEE WARNING! ON DOMED PLASTIC COVER.
- Ensure that the heater is not exposed to flammable vapors or liquids during lighting.
- Turn control knob counterclockwise to "PILOT" position and depress. While holding knob down, depress the pulse ignition button located in the USB Compartment, see Figure 3 and 4. The pilot should remain lit.
- After pilot lights, hold down for 30-60 seconds and then release knob. Knob should return to fully extended position, see Figure 5. 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.
- If heater does not light, hold down for approximately 30 seconds; release and depress again. Repeat until pilot lights.
- After burner tile has turned bright orange, adjust heat output by turning control knob to desired position ("LO" or "HI" setting)

**⚠ 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.

### USE WITH DISPOSABLE 1 LB. PROPANE CYLINDER(S): STOP

- To shut off heater, slightly push down and turn control knob clockwise to "OFF" position
- **CAUTION:** After turning heater off, wire guard will remain hot. Allow to thoroughly cool before storing.
- Do not operate, store or remove cylinder near flammable items or ignition sources.
- LP-GAS CYLINDERS MUST BE DISCONNECTED FROM HEATER WHEN NOT IN USE!

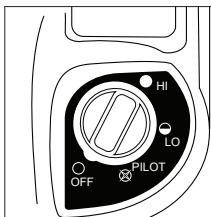


Figure 1: Control Knob

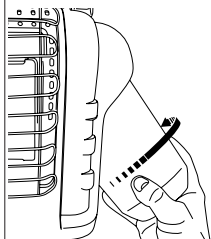


Figure 2: Attach Fuel Tank

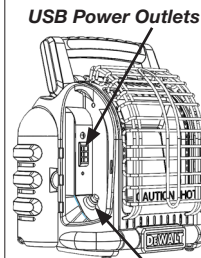


Figure 3:  
USB Compartment

### USE WITH HOSE CONNECTION(S) TO REMOTE PROPANE CYLINDER(S), MAXIMUM SIZE 20 LB.: START

- This heater may be used with a remote refillable propane cylinder ONLY when the cylinder and heater are located outdoors and the Heater is used with Mr. Heater Hose No. F273701, F273702, or F272702 and fuel filter F273699. Fuel filter must be replaced annually. Or use F273704 Buddy series hose. Fuel filter not required.
- **⚠ DANGER:** NEVER bring a refillable propane cylinder indoors. A fire or explosion can occur causing property damage, serious injury or death!
- Inspect the hose before each use of the heater. If there is excessive abrasion or wear, or the hose is cut, replace prior to using the heater with one of the Mr. Heater Hose No's. shown above.
- The propane cylinder must include a listed overfilling protection device as well as a collar to protect the cylinder valve.
- Heater and attached cylinder must be in an upright position during operation.
- Make sure the four-position Control Knob is in "OFF" position (see Figure 1).
- Swivel regulator outward for easy tank installation. Then screw hose connector into regulator on heater and screw connector on other end of hose into LP-gas supply cylinder valve. Tighten all hose connections. Do not use thread sealant on any of these connections.
- My. Heater strongly recommends using disposable fuel filter F273699 to trap any oil substances when connected to a remote cylinder that can make heater inoperable.
- Open valve at propane gas supply cylinder.
- Check all hose connections for leaks with soapy water at the threaded connection under the domed plastic cover where the hose connector screws into the regulator and at LP-gas supply cylinder. SEE WARNING! ON PLASTIC DOMED COVER.
- Ensure that the heater is not exposed to flammable vapors or liquids during lighting.
- Turn control knob counterclockwise to "PILOT" position and depress. While holding knob down, depress the pulse ignition button located in the USB Compartment, see Figure 3 and 4. The pilot should remain lit.
- After pilot lights, hold down for 30-60 seconds and then release knob. Knob should return to fully extended position, see Figure 5. 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.
- After burner tile has turned bright orange, adjust heat output by turning control knob to desired position ("LO" or "HI" setting).

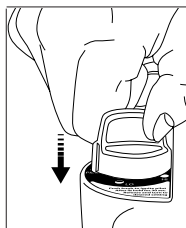


Figure 4: Depressed Control Knob

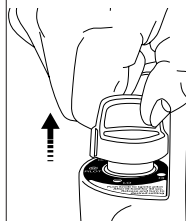


Figure 5: Released Control Knob

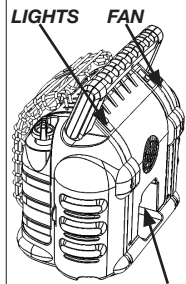



Figure 6:  
Back Controls

## USE WITH HOSE CONNECTION(S) TO REMOTE PROPANE CYLINDER(S), MAXIMUM SIZE 20 LB.: START (continued)

**⚠ CAUTION:** Do not try to adjust heating levels by using the propane tank shut off valve.

**⚠ 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.

## USE WITH HOSE CONNECTION(S) TO REMOTE PROPANE CYLINDER(S), MAXIMUM SIZE 20 LB.: STOP

- To shut off heater, shut off propane at supply tank
- Allow the heater to use up propane in supply line until the heater shuts off, then slightly push down control knob and turn clockwise  to "OFF" position
- **CAUTION:** After turning heater off, wire guard will remain hot. Allow to thoroughly cool before storing.
- When not in use, the gas must be turned off at the LP-gas supply cylinder. As stated before allow heater to use up propane in supply line until heater shuts off. When the LP-gas supply cylinder is not disconnected from the heater, the heater and the cylinder must be stored outdoors, in a well ventilated space, out of reach of children, and must not be stored in a building, garage, or any other enclosed area.

## Electronic Operation

When a charged DeWALT battery is inserted into the battery dock, Figure 6, the heater may activate the following electronic features. The battery inserts into the battery dock upright, with contacts facing the roof of the dock. These Electronic features may be used individually or simultaneously. When any of them are in use the status light, Figure 7, will illuminate with a steady green glow to visually signal that an electronic feature is active. If the status light is blinking see the diagnostics section below.

### Lights

Toggle the Light control button on the back of the heater activates/deactivates the lights in the handle bar. The Lights operate with any orientation of the heater and handle.

### Fan

Toggle the Fan control button on the back of the heater activates/deactivates the fan. Using the fan while the heater is active enhances the heaters convective heating ability. Using the fan while the heater is inactive will make the heater into a fan, meaning that you may enjoy the DXH12B no matter the season!

### USB Power Outlets

Inside the USB Compartment which houses the pulse igniter are also 3 USB Power Outlets, a power button, and a status light. Toggling the power button will activate/deactivate the USB Power Outlets with 5 Volts of DC current at 2 amps rating, signal by illumination of the status light. The USB Power Outlets facilitate the charging or powering of up to three USB devices. **NOTICE:** The USB power should be shut off when not in use. Failure to do so may cause battery to drain.

### Status Light Diagnostics: Steady On/Off Blinking

If the Status Light is blinking on and off steadily this is an indication that the DeWALT battery is low on charge. See Battery Charging Precautions and Instructions, starting on page 9. The battery must be removed from the heater in order to charge.

### Status Light Diagnostics: Double Flash (2 Blinks, 1 Pause)

If the Status Light is "Double Flashing" (repetition of 2 rapid blinks followed by a pause) this is an indication that the battery is outside of its operating temperature range.

## Maintenance

Always keep the heater area clear and free from combustible materials, gasoline and other flammable vapors and liquids.

Keep the vent areas (slots in the bottoms and the top at the front and rear 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 8. 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.

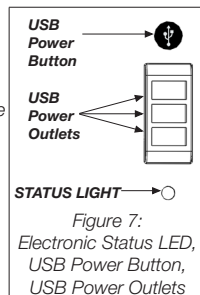


Figure 7:  
Electronic Status LED,  
USB Power Button,  
USB Power Outlets

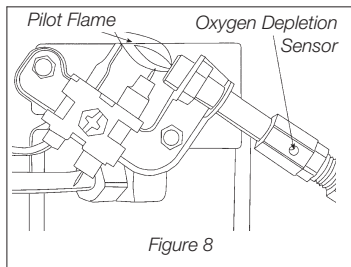


## MAINTENANCE CLEANING AND INSPECTION PROCEDURE

1. Allow heater to thoroughly cool before performing any maintenance.
2. Remove disposable 1 lb. cylinder from heater or turn OFF gas supply at remote cylinder 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 fuel line from burner assembly.
6. Remove burner assembly from back of housing.
7. Inspect interior of housing for accumulation of dust, insect or spider webs. If necessary, clean interior housing with a vacuum cleaner or apply air pressure. Do not damage any components within the housing assembly when you are cleaning.
8. Inspect and clean main burner orifice (threaded into orifice holder). Orifice holder is attached to the burner assembly venturi with (2) two screws.
9. 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 8.  
**⚠ WARNING:** Never use needles, wires, or similar cylindrical objects to clean the pilot to avoid damaging the calibrated orifice that controls the gas flow assembly.
10. Apply air pressure (max. 30 psi) into ceramic tile of burner assembly and the venture tube to remove dust, lint or spider webs.
11. Reassemble main burner orifice holder onto the burner.
12. Reinstall burner assembly into the heater housing.
13. Reinstall fuel line and check for leaks.
14. Install heater back cover.

## STORAGE

- 1 Lb. Propane cylinder(s) must be disconnected from heater when not in use.
- Indoor storage of the heater is permissible only if the cylinder is disconnected and removed from the heater. Cylinders must be stored outdoors out of the reach of children and must not be stored in a building, garage or any other enclosed area.
- If a 20 Lb. Propane cylinder is not disconnected from the heater, the heater and the cylinder must be stored outdoors, in a well ventilated space, out of reach of children, and must not be stored in a building, garage or any other enclosed area.



## TROUBLESHOOTING

### 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
- Igniter wire damaged - replace
- Pulse Igniter Battery dead - replace AA battery

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

- No gas to heater - install disposable cylinder or connect hose and filter where required and turn on valve at remote cylinder.
- "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 beginning on page 7.)

### 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 beginning on page 7.)
- 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 beginning on page 7.)

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

- Pilot is blocked - clean pilot (See MAINTENANCE beginning on page 7.)
- Provide minimum fresh air opening of 9 square inches (example, 3" x 3" 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.



## Important Safety Instructions for all Battery Chargers

**SAVE THESE INSTRUCTIONS:** This manual contains important safety and operating instructions for battery chargers.

- Before using the charger, read all instructions and cautionary markings on the charger, battery pack and product using the battery pack.

**⚠ WARNING:** Shock hazard. Do not allow any liquid to get inside the charger. Electric shock may result.

**⚠ WARNING:** Burn hazard. To reduce the risk of injury, charge only DeWALT rechargeable battery packs.

**⚠ CAUTION:** Other types of batteries may overheat and burst resulting in personal injury and property damage.

**NOTICE:** Under certain conditions, with the charger plugged into the power supply, the charger can be shorted by foreign material. Foreign materials of a conductive nature, such as, but not limited to, grinding dust, metal chips, steel wool, aluminum foil or any buildup of metallic particles should be kept away from the charger cavities. Always un-plug the charger from the power supply when there is no battery pack in the cavity. Unplug the charger before attempting to clean it.

**⚠ WARNING:**

- DO NOT attempt to charge the battery pack with any chargers other than the ones in this manual.** The charger and battery pack are specifically designed to work together.
- These chargers are not intended for any uses other than charging DeWALT rechargeable batteries.** Any other uses may result in risk of fire, electric shock or electrocution.
- Do not expose the charger to rain or snow.**
- Pull by the plug rather than the cord when disconnecting the charger.** This will reduce the risk of damage to the electric plug and cord.
- Make sure that the cord is located so that it will not be stepped on, tripped over or otherwise subjected to damage or stress.**
- Do not use an extension cord unless it is absolutely necessary.** Use of improper extension cord could result in risk of fire, electric shock or electrocution.

- When operating a charger outdoors, always provide a dry location and use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- An extension cord must have adequate wire size (AWG or American Wire Gauge) for safety.** The smaller the gauge number of the wire, the greater the capacity of the cable, that is, 16 gauge has more capacity than 18 gauge. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. When using more than one extension to make up the total length, be sure each individual extension contains at least the minimum wire size. The following table shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The lower the gauge number, the heavier the cord.

Minimum Gauge for Cord Sets						
Amperage Rating		Volts	Total Length of Cord in Feet (meters)			
		120V	25 (7.6)	50 (15.2)	100 (30.5)	150 (45.7)
		240V	50 (15.2)	100 (30.5)	200 (61)	300 (91.4)
More Than	Not More Than	AWG				
0	6		18	16	16	14
6	10		18	16	14	12
10	12		16	16	14	12
12	16		14	12	Not Recommended	

- Do not place any object on top of the charger or place the charger on a soft surface that might block the ventilation slots and result in excessive internal heat.** Place the charger in a position away from any heat source. The charger is ventilated through slots in the top and the bottom of the housing.
- Do not operate the charger with a damaged cord or plug.**

- **Do not operate the charger if it has received a sharp blow, been dropped or otherwise damaged in any way.** Take it to an authorized service center.
- **Do not disassemble the charger; take it to an authorized service center when service or repair is required.** Incorrect reassembly may result in a risk of electric shock, electrocution or fire.
- **Disconnect the charger from the outlet before attempting any cleaning. This will reduce the risk of electric shock.** Removing the battery pack will not reduce this risk.
- **NEVER attempt** to connect 2 chargers together.
- **The charger is designed to operate on standard 120V household electrical power. Do not attempt to use it on any other voltage.** This does not apply to the vehicular charger.

### Regulatory Notices

- This Class B digital apparatus complies with Canadian ICES-003.
- This device complies with Part 15 of the FCC Rules and Industry Canada License-exempt RSS standard(s). Operation is subject to the following two conditions:
  - 1) This device may not cause harmful interference, and
  - 2) This device must accept any interference received, including interference that may cause undesired operation.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### Introduction

The DCB107, DCB115 battery charger (Fig. 9) is designed to charge DeWALT 12–20V Max\* lithium ion battery packs. This charger requires no adjustment and is designed to be as easy as possible to operate. Simply place your battery pack into a receptacle of a plugged in charger and it will automatically charge the pack. Consult the chart at the end of this manual for compatibility of chargers and battery packs.

### IMPORTANT SAFETY INSTRUCTIONS FOR ALL BATTERY PACKS

When ordering replacement battery packs, be sure to include the catalog number and voltage. Consult the chart at the end of this manual for compatibility of chargers and battery packs.

The battery pack is not fully charged out of the carton. Before using the battery pack and charger, read the safety instructions below and then follow charging procedures outlined.

### READ ALL INSTRUCTIONS

#### WARNING:

- **Do not charge or use the battery pack in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Inserting or removing the battery pack from the charger may ignite the dust or fumes.
- **NEVER force the battery pack into the charger. DO NOT modify the battery pack in any way to fit into a non-compatible charger as battery pack may rupture causing serious personal injury.** Consult the chart at the end of this manual for compatibility of batteries and chargers.
- Charge the battery packs only in designated DeWALT chargers.
- **DO NOT** splash or immerse in water or other liquids.
- **Do not store or use the tool and battery pack in locations where the temperature may reach or exceed 104 °F (40 °C) (such as outside sheds or metal buildings in summer).** For best life store battery packs in

a cool, dry location. **NOTE: Do not store the battery pack in a tool with the trigger switch locked on. Never tape the trigger switch in the ON position.**

**⚠ WARNING:** Fire hazard. Never attempt to open the battery pack for any reason. If the battery pack case is cracked or damaged, do not insert into the charger. Do not crush, drop or damage the battery pack. Do not use a battery pack or charger that has received a sharp blow, been dropped, run over or damaged in any way (e.g., pierced with a nail, hit with a hammer, stepped on). Damaged battery packs should be returned to the service center for recycling.

**⚠ WARNING:** Fire hazard. Do not store or carry the battery pack so that metal objects can contact exposed battery terminals. For example, do not place the battery pack in aprons, pockets, tool boxes, product kit boxes, drawers, etc., with loose nails, screws, keys, etc. **Transporting batteries can possibly cause fires if the battery terminals inadvertently come in contact with conductive materials such as keys, coins, hand tools and the like.** The US Department of Transportation Hazardous Material Regulations (HMR) actually prohibit transporting batteries in commerce or on airplanes (e.g., packed in suitcases and carry-on luggage) UNLESS they are properly protected from short circuits. So when transporting individual battery packs, make sure that the battery terminals are protected and well insulated from materials that could contact them and cause a short circuit.

#### **SPECIFIC SAFETY INSTRUCTIONS FOR LITHIUM ION (Li-Ion)**

- **Do not incinerate the battery pack even if it is severely damaged or is completely worn out.** The battery pack can explode in a fire. Toxic fumes and materials are created when lithium ion battery packs are burned.
- **If battery contents come into contact with the skin, immediately wash area with mild soap and water.** If battery liquid gets into the eye, rinse water over the open eye for 15 minutes or until irritation ceases. If medical attention is needed, the battery electrolyte is composed of a mixture of liquid organic carbonates and lithium salts.
- **Contents of opened battery cells may cause respiratory irritation.** Provide fresh air. If symptoms persist, seek medical attention.

**⚠ WARNING:** Burn hazard. Battery liquid may be flammable if exposed to spark or flame.

#### **The RBRC® Seal**

The RBRC® (Rechargeable Battery Recycling Corporation) Seal on the nickel cadmium, nickel metal hydride or lithium-ion batteries (or battery packs) indicates that the costs to recycle these batteries (or battery packs) at the end of their useful life have already been paid by DeWALT. In some areas, it is illegal to place spent nickel cadmium, nickel metal hydride or lithium-ion batteries in the trash or municipal solid waste stream and the Call 2 Recycle® program provides an environmentally conscious alternative. Call 2 Recycle, Inc., in cooperation with DeWALT and other battery users, has established the program in the United States and Canada to facilitate the collection of spent nickel cadmium, nickel metal hydride or lithium-ion batteries. Help protect our environment and conserve natural resources by returning the spent nickel cadmium, nickel metal hydride or lithium-ion batteries to an authorized DeWALT service center or to your local retailer for recycling. You may also contact your local recycling center for information on where to drop off the spent battery. RBRC® is a registered trademark of Call 2 Recycle, Inc.



#### **Charging a Battery (Fig. 9)**

1. Plug the charger into an appropriate outlet before inserting battery pack.
2. Insert the battery pack into the charger, making sure the battery pack is fully seated in the charger. The red (charging) light will blink continuously indicating that the charging process has started.
3. The completion of charge will be indicated by the red light remaining ON continuously. The battery pack is fully charged and may be used at this time or left in the charger.

**NOTE:** To ensure maximum performance and life of lithium-ion battery packs, charge the battery pack fully before first use.

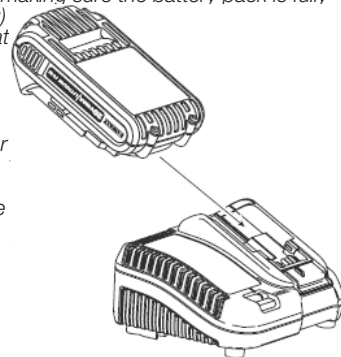








Figure 9

## Charger Operation

Refer to the indicators below for the charge status of the battery pack.

\* The red light will continue to blink, but a yellow indicator light will be illuminated during this operation. Once the battery pack has reached an appropriate temperature, the yellow light will turn off and the charger will resume the charging procedure.

CHARGE INDICATORS			
	CHARGING	— — — — —	
	FULLY CHARGED	=====	
	HOT/COLD PACK DELAY	— — —   — — — — —	

The charger will not charge a faulty battery pack. The charger will indicate faulty battery pack by refusing to light.

**NOTE:** This could also mean a problem with a charger.

If the charger indicates a problem, take the charger and battery pack to be tested at an authorized service center.

## HOT/COLD PACK DELAY

When the charger detects a battery pack that is too hot or too cold, it automatically starts a Hot/Cold Pack Delay, suspending charging until the battery pack has reached an appropriate temperature. The charger then automatically switches to the pack charging mode. This feature ensures maximum battery pack life.

A cold battery pack will charge at a slower rate than a warm battery pack. The battery pack will charge at that slower rate throughout the entire charging cycle and will not return to maximum charge rate even if the battery pack warms.

## LITHIUM-ION BATTERY PACKS ONLY

Li-Ion tools are designed with an Electronic Protection System that will protect the battery pack against overloading, overheating or deep discharge.

The tool will automatically turn off if the Electronic Protection System engages. If this occurs, place the lithium-ion battery pack on the charger until it is fully charged.

## Important Charging Notes

1. Longest life and best performance can be obtained if the battery pack is charged when the air temperature is between 65 °F and 75 °F (18° – 24 °C). DO NOT charge the battery pack in an air temperature below +40 °F (+4.5 °C), or above +104 °F (+40 °C). This is important and will prevent serious damage to the battery pack.
2. The charger and battery pack may become warm to the touch while charging. This is a normal condition, and does not indicate a problem. To facilitate the cooling of the battery pack after use, avoid placing the charger or battery pack in a warm environment such as in a metal shed or an uninsulated trailer.
3. If the battery pack does not charge properly:
  - Check operation of the receptacle by plugging in a lamp or other appliance;
  - Check to see if the receptacle is connected to a light switch which turns the power off when you turn out the lights;
  - Move the charger and battery pack to a location where the surrounding air temperature is approximately 65 °F – 75 °F (18° – 24 °C);
  - If charging problems persist, take the tool, battery pack and charger to your local service center.
4. The battery pack should be recharged when it fails to produce sufficient power on jobs which were easily done previously. DO NOT CONTINUE to use it under these conditions. Follow the charging procedure. You may also charge a partially used pack whenever you desire with no adverse effect on the battery pack.
5. Foreign materials of a conductive nature such as, but not limited to, grinding dust, metal chips, steel wool, aluminum foil, or any buildup of metallic particles should be kept away from charger cavities. Always unplug the charger from the power supply when there is no battery pack in the cavity. Unplug the charger before attempting to clean it.
6. Do not freeze or immerse the charger in water or any other liquid.  
**⚠ WARNING:** Shock hazard. Don't allow any liquid to get inside the charger. Electric shock may result.  
**⚠ WARNING:** Burn hazard. Do not submerge the battery pack in any liquid or allow any liquid to enter the battery pack. Never attempt to open the battery pack for any reason. If the plastic housing of the battery pack breaks or cracks, return it to a service center for recycling.

## Wall Mounting

These chargers are designed to be wall mountable or to sit upright on a table or work surface. If wall mounting, locate the charger within reach of an electrical outlet, and away from a corner or other obstructions which may impede air flow. Use the back of the charger as a template for the location of the mounting screws on the wall. Mount the charger securely using drywall screws (purchased separately) at least 1" (25.4 mm) long, with a screw head diameter of 0.28–0.35" (7–9 mm), screwed into wood to an optimal depth leaving approximately 7/32" (5.5 mm) of the screw exposed. Align the slots on the back of the charger with the exposed screws and fully engage them in the slots.

## Charger Cleaning Instructions

**⚠ WARNING:** Shock hazard. Disconnect the charger from the AC outlet before cleaning. Dirt and grease may be removed from the exterior of the charger using a cloth or soft non-metallic brush. Do not use water or any cleaning solutions.

## Storage Recommendations

1. The best storage place is one that is cool and dry, away from direct sunlight and excess heat or cold.
2. For long storage, it is recommended to store a fully charged battery pack in a cool dry place out of the charger for optimal results.

**NOTE:** Battery packs should not be stored completely depleted of charge. The battery pack will need to be recharged before use.

## SAVE THESE INSTRUCTIONS FOR FUTURE USE

## Repairs

The charger and battery pack are not serviceable. There are no serviceable parts inside the charger or battery pack.

## READ ALL OF THE INSTRUCTIONS IN THE BATTERY CHARGER SECTION OF THIS MANUAL BEFORE ATTEMPTING TO CHARGE THE BATTERY PACK FOR YOUR TOOL.

If you have any questions, call 1-800-4-DeWALT (1-800-433-9258).

Register Online

Thank you for your purchase. Register your product now for:

- **WARRANTY SERVICE:** Registering your product will help you obtain more efficient warranty service in case there is a problem with your product.
- **CONFIRMATION OF OWNERSHIP:** In case of an insurance loss, such as fire, flood or theft, your registration of ownership will serve as your proof of purchase.

- **FOR YOUR SAFETY:** Registering your product will allow us to contact you in the unlikely event a safety notification is required under the Federal Consumer Safety Act. Register Online at [www.dewalt.com/register](http://www.dewalt.com/register).

## Three Year Limited Warranty

DeWALT will repair, without charge, any defects due to faulty materials or workmanship for three years from the date of purchase. This warranty does not cover part failure due to normal wear or tool abuse. For further detail of warranty coverage and warranty repair information, visit [www.dewalt.com](http://www.dewalt.com) or call 1-800-4-DeWALT (1-800-433-9258). This warranty does not apply to accessories or damage caused where repairs have been made or attempted by others. This warranty gives you specific legal rights and you may have other rights which vary in certain states or provinces.

In addition to the warranty, DeWALT tools are covered by our:

### 1 YEAR FREE SERVICE

DeWALT will maintain the tool and replace worn parts caused by normal use, for free, any time during the first year after purchase.

### 2 YEARS FREE SERVICE ON DeWALT BATTERY PACKS

DC9071, DC9091, DC9096, DC9182, DC9280, DC9360,  
DCB120, DCB127, DCB201, DCB203, DCB203BT, DCB207, DCB361  
3 YEARS FREE SERVICE ON DeWALT BATTERY PACKS  
DCB200, DCB204, DCB204BT, DCB205, DCB606

### DeWALT BATTERY PACKS

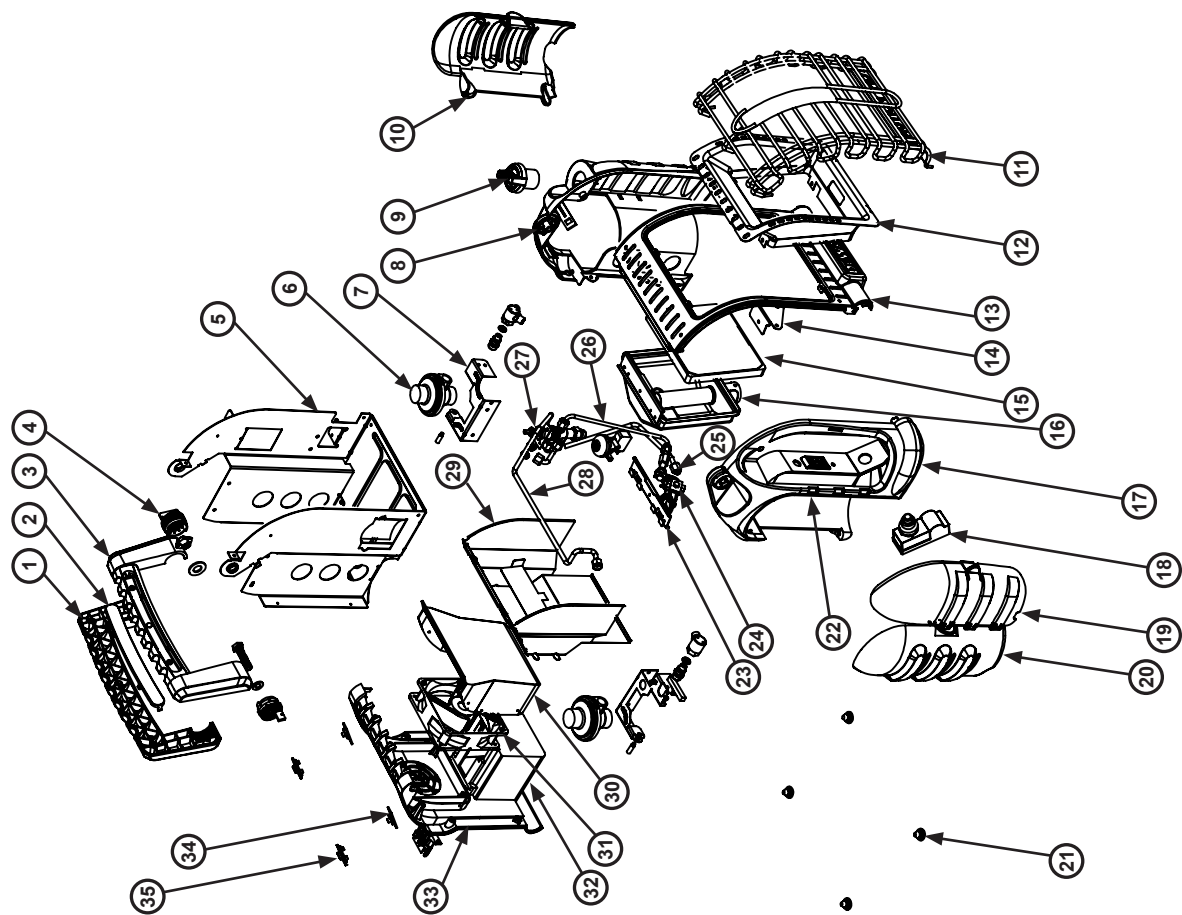
Product warranty voided if the battery pack is tampered with in any way. DeWALT is not responsible for any injury caused by tampering and may prosecute warranty fraud to the fullest extent permitted by law.

### 90 DAY MONEY BACK GUARANTEE

If you are not completely satisfied with the performance of your DeWALT Power Tool, Laser, or Nailer for any reason, you can return it within 90 days from the date of purchase with a receipt for a full refund – no questions asked.

**LATIN AMERICA:** This warranty does not apply to products sold in Latin America. For products sold in Latin America, see country specific warranty information contained in the packaging, call the local company or see website for warranty information.

**FREE WARNING LABEL REPLACEMENT:** If your warning labels become illegible or are missing, call 1-800-4-DeWALT (1-800-433-9258) for a free replacement.





***DXH12B REPLACEMENT PARTS LIST***

#	Description	Part #
1	Handle Back	
2	Handle Light	
3	Handle Front	
4	Handle Base	
5	Bottom Panel	
6	Regulator Assy.	
7	Regulator Bracket	
8	Right Side Housing	
9	Knob	
10	Right Gas Door	
11	Wire Guard	
12	Reflector	
13	Front Panel	
14	ODS Bracket	
15	Ceramic Tile	
16	Burner Assy.	
17	Left Side Housing	
18	Pulse Igniter	
19	USB Compartment Door	
20	Left Gas Door	
21	Leg Pad	

#	Description	Part #
22	USB Power Outlets	
23	Ceramic Tile Clip	
24	Orifice Adapter	
25	Pilot Assy.	
26	Main Burner Tube	
27	Control Valve Assy.	
28	Inlet Tube Assy.	
29	Heat Shield Assy.	
30	Fan Cover	
31	Fan	
32	Back Cover	
33	Battery Dock	
34	Button	
35	Button Cover	

***ACCESSORIES***

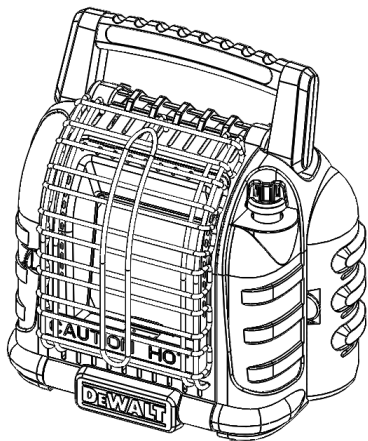
#	Description
F273701	5 ft. PROPANE HOSE ASSEMBLY (Swivel 1"-20 Male Throwaway Cyl. Thd. X P.O.L. w/Handwheel)
F273702	12 ft. PROPANE HOSE ASSEMBLY (Swivel 1"-20 Male Throwaway Cyl. Thd. X P.O.L. w/Handwheel)
F272702	12 ft. PROPANE HOSE ASSEMBLY (Swivel 1"-20 Male Throwaway Cyl. Thd. X P.O.L. w/Handwheel)
F273699	Fuel Filter (Replace Annually)
F271802	12 ft. PROPANE HOSE ASSEMBLY w/quick disconnect fittings and 3/8" female flare fitting
F271803	12 ft. PROPANE HOSE ASSEMBLY w/quick disconnect fittings and 11" W.C. regulator w/Acme nut.





## INSTRUCTION MANUAL

### PORTABLE PROPANE HEATER FOR RECREATIONAL AND COMMERCIAL USE DXH12B



*This product may be covered by one or more US or international patents or pending patent applications in the US and other countries. Please visit <http://www.energogroupinc.com/patents> for more information.*

### **▲ 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 Toll-Free 855-805-5745  
[www.dewalt.com](http://www.dewalt.com)

Our office hours are 8:00 AM – 5:00 PM, EST, Monday through Friday.

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 1 year from date of purchase.*

*DeWalt® will repair or replace this product free of charge if it has been prove to be defective within the 1 year period, and is returned at customer expense with proof of purchase to DeWalt® within the warranty period.*

DEWALT®, GUARANTEED TOUGH® and the yellow and black color scheme are trademarks of the DEWALT Industrial Tool Co., used under license. ©2017 DEWALT. EGI/Enerco Group Inc. Under license from Dewalt Industrial Tool Co



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