

Thank you for purchasing a Sealey product. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance.

**⚠ IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THIS PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.**

## 1. SAFETY INSTRUCTIONS

- ❑ **WARNING!** Disconnect the heater from the gas supply before changing accessories, servicing or performing any maintenance.
- ✓ Keep the heater clean and in good working order.
- ✓ Check that the heater is in sound condition and not damaged. Take immediate action to repair or replace damaged parts.
- ✓ Use recommended parts only. Unauthorised parts may be dangerous and will invalidate the warranty.
- ✓ Store gas cylinders in accordance with regulations applicable to such appliances and **DO NOT** store below ground level.
- ✓ Follow instructions to ensure that there are no leaks in the gas connections. **DO NOT** use a naked flame to check for gas leaks. Use only a soapy water solution.
- ✓ Use the supplied pressure regulator only. Protect regulator from rain and other contamination and **DO NOT** allow vent hole in regulator cover to become obstructed.
- ✓ For outdoor use only. The heater must have adequate continuous ventilation.
- ✓ Should the heater not work correctly, immediately turn off the heater and close the gas valve. Check the heater according to instruction manual. If you are unable to resolve the problem contact your local service agent. **DO NOT** attempt to dismantle or make any adjustments beyond those mentioned in these instructions. To do so may be dangerous and will invalidate the warranty.
- ✗ **DO NOT** use the heater on recreational vehicles or boats.
- ✗ **DO NOT** use the unit for the heating of domestic premises.
- ✗ **DO NOT** use the heater if damaged. Take immediate action to repair or replace damaged parts. Use authorised service agent only.
- ✗ **DO NOT** use heater in closed rooms, living areas, basements or below ground level or in any area which is without adequate ventilation.
- ✗ **DO NOT** use heater when there is a risk of strong winds blowing it over.
- ✗ **DO NOT** allow untrained persons to ignite the heater.
- ✗ **DO NOT** use a naked flame to try and ignite the heater.
- ✗ **DO NOT** use the heater near flammable material, liquids, solids, or gases or in areas where spray painting is carried out.
- ✗ **DO NOT** place any flammable material within 2mtr of the heater.
- ✗ **DO NOT** place any other object less than 1mtr from the heater.
- ✗ **DO NOT** attempt to move the heater when it is lit, wait until it has been switched off and allowed to cool down.
- ✗ **DO NOT** touch any part of the operating heater above the control switch, as serious burns could result. Allow one hour cooling after switch off to ensure safety.
- ✗ **DO NOT** expose the cylinder to the sun, or any other heat source.
- ✓ Ensure the cylinder valve is closed when the heater is switched off.
- ✓ When not in use remove the cylinder and store the cylinder and heater in a safe, dry area, out of reach of children.

❑ **WARNING!**  
*If the heater is used for prolonged periods at maximum power, ice may form on the propane cylinder. If so, **DO NOT** use another heater to de-ice the cylinder. Allow the ice to melt naturally.*

## 2. INTRODUCTION & SPECIFICATION

The LP352 and LP352S heaters are for use out of doors or in large well ventilated indoor spaces. The heater uses propane gas to generate infrared heat from the upper heat unit which is reflected down and out by a conical plate inside the head shield. The radiant heat produces a warm area covering approximately 20-25mtr<sup>2</sup> depending on location and conditions.

### 2.1. Specification:

Nominal Output . . . . .12.0kW	Height . . . . .2240mm
Fuel . . . . .Propane	Weight (excluding cylinder) . .17kg
Ignition . . . . .Piezoelectric	Pressure . . . . .28mbar
Reflector . . . . .Ø815mm	

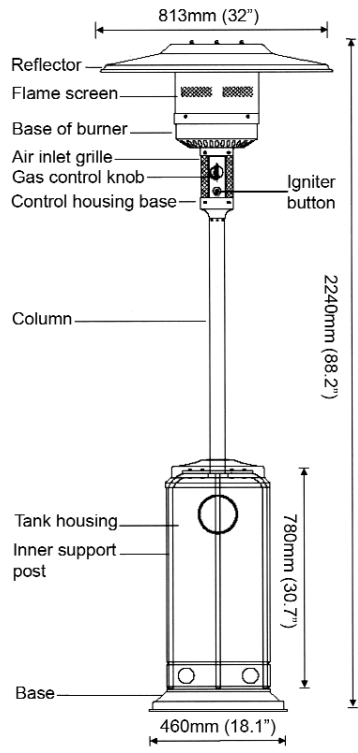
**Note: Gas cylinder is not supplied.**

## 3. CONTENT

### 3.1. Content

**Note: The flame screen may be slightly blackened. This is a result of factory tests and is not a fault.** Remove from packing and check parts against the list below. If any parts are missing or damaged contact your supplier immediately.

6 x Nuts and Bolts (M6) x 35mm	2 x Jubilee clips	1 x Reflector
3 x Bolts (M8) x 16mm	4 x M6 x 10mm	1 x Gas Hose
3 x Inner support posts	1 x Base	1 x Gas Regulator
1 x Column	1 x Flame screen/control assembly	1 x Tank housing
3 x Wing Nuts	6 x Washers Ø8mm	1 x Wheel bracket
3 x Reflector support pins	3 x Wing nuts	2 x M8 Nuts
2 x 10mmM8 bolts		



### 3.2. Gas Requirements: Propane

- 3.2.1. The heater is designed for use with 9kg(20lb) cylinders. Maximum suitable size of cylinder is Ø30cm x 69cm (H).
- 3.2.2 The appliance should only be used with the supplied gas hose and regulator.
- 3.2.3 Never use a rusted, dented or damaged cylinder.
- 3.2.4 Avoid twisting flexible tubes or hoses.
- 3.2.5 Never connect an unregulated gas cylinder to the heater.
- 3.2.6 Disconnect the gas cylinder when the heater is not in use.

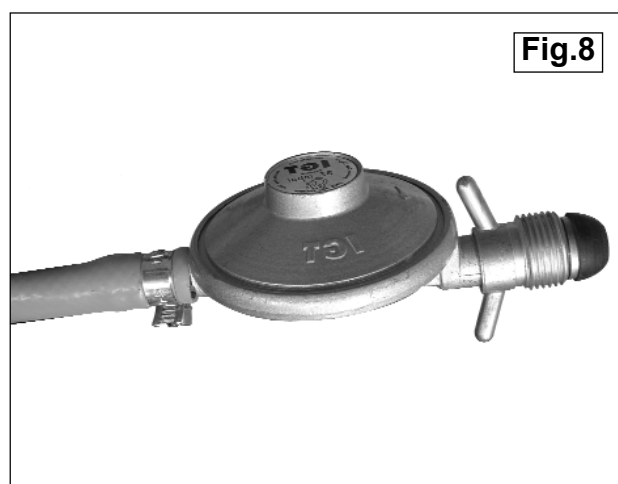
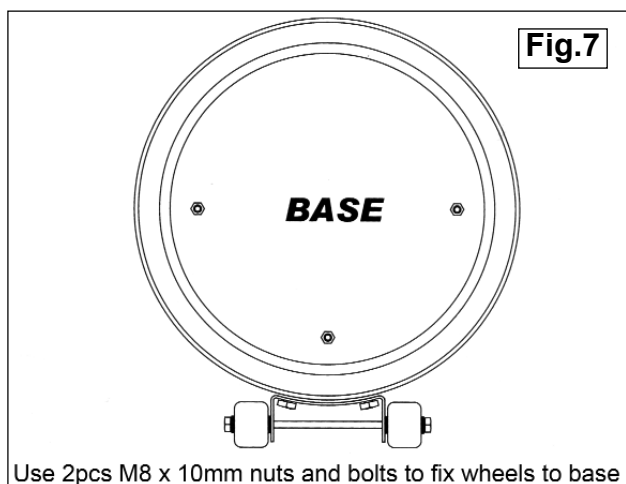
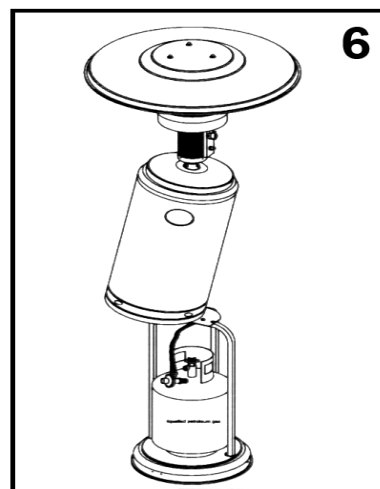
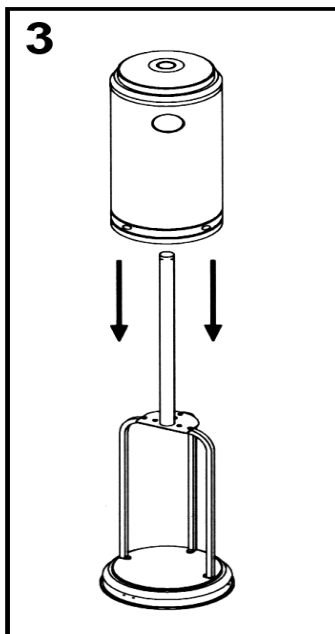
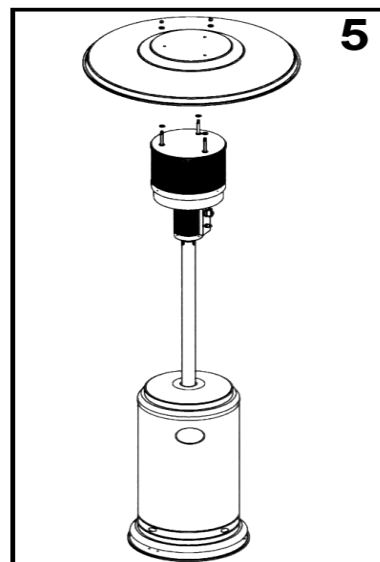
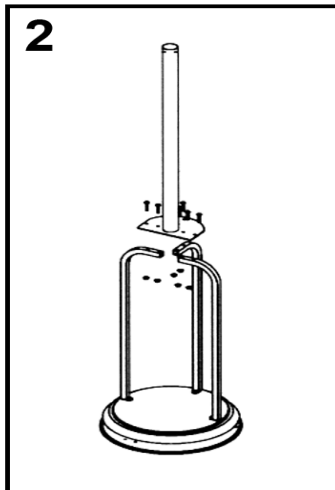
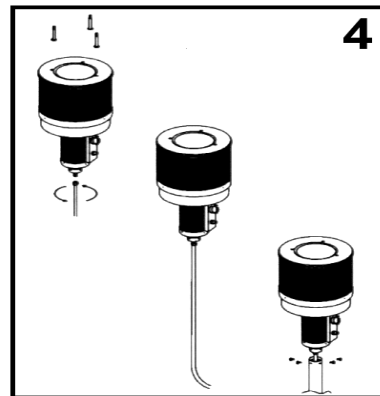
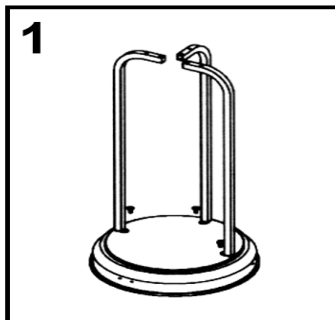
## 4. ASSEMBLY

### 4.1 Assembly

- 4.1.1 Place the three inner support posts onto the cylinder base and bolt in place using three M8 x 16mm bolts. See fig.1.
- 4.1.2 Place the base of the main column onto the top of the three inner support posts and bolt in place using six M6 x 35mm bolts. See fig.2.
- 4.1.3 Slide the gas bottle storage housing over the main column See fig.3.
- 4.1.4 Place washers over the ends of the 90mm reflector support pins and screw all three of them into the three threaded inserts in the top of the flame screen. See fig.4.
- 4.1.5 Wind two or more turns of PTFE plumbing tape around the gas burner inlet connector and connect the rigid gas pipe. See fig.4.
- 4.1.6 With the aid of a second person tilt the assembly over and feed the gas pipe down the main column until the base of the burner unit is seated inside the column.
- 4.1.7 Return the assembly to the upright position and fix the burner unit to the post using 4 M6 x 10mm bolts.
- 4.1.8 Put an Ø8mm washer on top of each reflector support pin and place the reflector onto the pins. Fix the reflector in place using the wing nuts provided. See fig.5.
- 4.1.9 Assemble the transit wheels to the base using two M8 x 10mm nuts and bolts as shown in Fig.7.
- 4.1.10 Lift the tank housing and rest it on the column plate. Connect the flexible rubber gas hose to the free end of the metal gas pipe and secure in place with a jubilee clip.
- 4.1.11 Slide a jubilee clip over the open end of the flexible rubber gas hose and connect the hose to the regulator. Tighten the clip.
- 4.1.12 Place the gas cylinder within the three inner support posts and connect the regulator (fig.8) to the gas bottle.

### 4.2 Leakage Test: A complete gas tightness check should be carried out before use.

- 4.2.1 Make sure the cylinder control valve is in the ON position.
- 4.2.2 Make a soapy water solution of one part liquid detergent and one part water. Apply the solution to all gas connections. Where there is a leak soap bubbles will appear.



## REPRESENTATIONS OF OUTDOOR AREAS

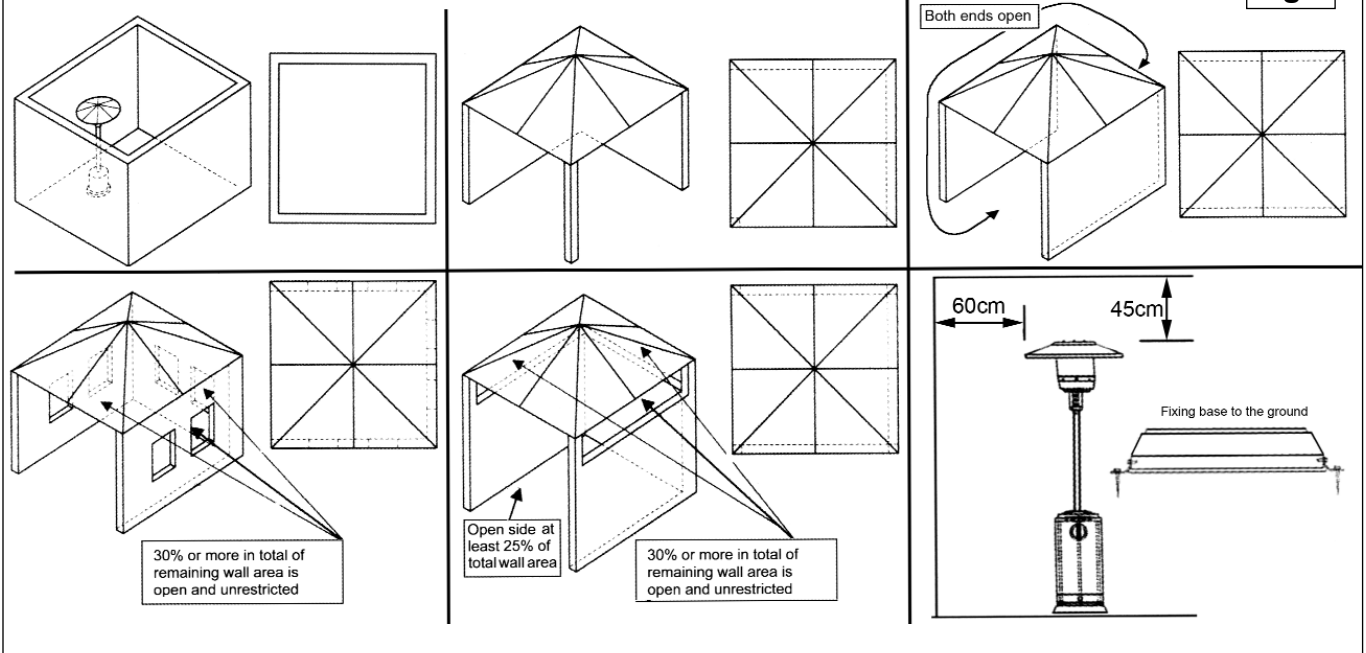


Fig.9

## 5. HEATER LOCATION

Your Sealey heater will generate radiated heat to a maximum area of approximately 25m<sup>2</sup> (depending on conditions). It is therefore very important to locate your heater correctly in order to achieve maximum benefit whilst avoiding any potential hazards. The heater should only be used outdoors or in large well ventilated areas (see diagrams above regarding the ventilation in semi-enclosed areas. The following location instructions must also be observed:

- 5.1. Ensure the surface on which the heater is to stand is level, smooth and flat. Avoid any surface that may cause the heater to topple.
- 5.2. Ensure the heater is located at the minimum distances from fixed objects such as walls and ceilings (see above) as well as doors, panelling etc. and not in the same building or area as flammable liquids, solids or gases.
- 5.3. Ensure that there is no possibility of the heater being blown over by strong winds.
- 5.4. Other features that will assist to enhance the comfort of the heated environment and reduce gas consumption:
  - a) Placing heater under sun or rain awnings when used outside whilst still observing the conditions laid out in the diagrams above.
  - b) Protecting the heated area from draughts and winds.
- 5.5. Ensure the location of the gas heater does not contravene Health and Safety, fire, or any other local rules, legislation or regulations.

## 6. HEATER OPERATION

❑ **WARNING! SAFETY CONSIDERATIONS WHEN USING THE HEATER.**

- 6.1 The whole gas system consisting of hose, regulator, pilot and burner should be inspected for leaks before use.
  - 6.1.1 Check the hose assembly for signs of wear, cuts and abrasions. If in doubt do a leak test. A suspect hose should be replaced with a new one to the same specification.
  - 6.1.2 Avoid kinks and twisting of the flexible hose.
  - 6.1.3 Ensure the ventilation opening of the cylinder enclosure, control compartment and circulation passageways of the heater are free and clear of debris. Use compressed air or heavy-duty pipe cleaners to remove any debris or blockages caused by insect nests.
  - 6.1.4 Always keep a dry chemical fire extinguisher readily available.
  - 6.1.5 Always allow a 5 minute complete shut off period before before relighting a hot heater.
- 6.2 **Operation.**
  - 6.2.1 Turn on the valve on the gas supply cylinder.
  - 6.2.2 Press in and turn the control knob 90° anticlockwise to the 'PILOT' position.
  - 6.2.3 To ignite the pilot flame press in and hold the control knob for 30 seconds. With the knob still held in press the Igniter button several times until the pilot flame lights. The pilot flame can be observed through the ventilation slots in the base of the burner. Keep the knob depressed for a further 10 - 20seconds before releasing it.

NOTE: If a new tank has been connected, please allow at least one minute or more for the air in the gas pipeline to purge out through the pilot hole.

- 6.2.4 If the pilot flame does not light or goes out repeat step 6.2.3.
- 6.2.5 When the pilot flame is lit turn the control knob to 'LO' and leave it there for a minimum of five minutes before increasing the temperature to the desired setting.
- 6.2.6 If the burner flame goes out accidentally or is blown out by the wind, turn off the heater immediately. After the flame goes out there may be some escaped gas present in the burner. DO NOT attempt to relight the heater immediately. Wait at least 5 minutes for any gas to dissipate before resuming the ignition process from step 6.2.2.
- 6.3 **Replacing the gas cylinder.** This must be done in a flame free atmosphere.
  - 6.3.1 Ensure that the heater control knob is in the OFF position.
  - 6.3.2 Close the gas cylinder valve and disconnect the regulator.
  - 6.3.3 Check that a gasket is present and in good condition on the new cylinder.
  - 6.3.4 Reconnect the regulator and do a leakage test.
  - 6.3.5 When the heater is not in use always turn off the gas cylinder valve.

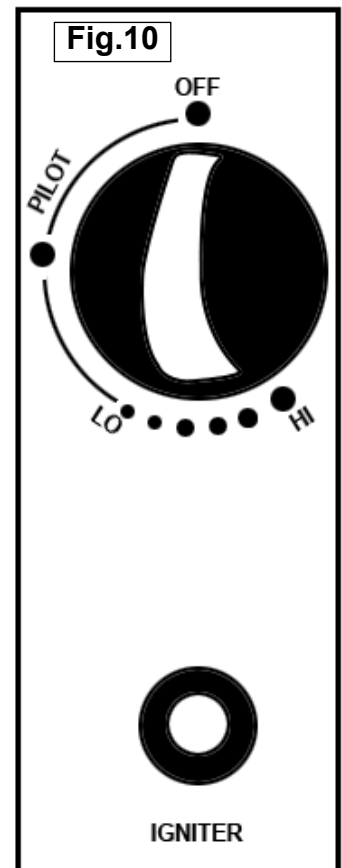


Fig.10

## 7. STORAGE & CLEANING

- 7.1 When not in use store the heater in a safe, dry, childproof area. If being stored indoors and/or for long periods, i.e. during the summer, ensure the gas bottle is removed and stored according to appropriate regulations. Remove the aluminium reflector from the heater and store separately to avoid the risk of damaging or dulling the surface. Cover the remainder of the heater unit.
- 7.2 Do not use solvents or any other combustible cleaners on any part of the heater. Clean the surfaces with a clean damp cloth. If carbon deposits form on the reflector or flame screen they should only be cleaned with soap and water.
- 7.3 Remove debris, spider and insect nests from the ventilation openings of the cylinder enclosure, control compartment, burner and air circulation passageways of the heater with compressed air or heavy-duty pipe cleaners. Do not try to unblock apertures or ports with items such as a toothpick which may break and cause a blockage.
- 7.4 Heaters used in a marine environment i.e in establishments by the sea should be regularly checked for salt corrosion.
- 7.5 Do not expose the pilot or burner components to water. If this should occur the heater should not be used until it has been inspected and serviced.

## 8. TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Pilot will not light	Gas valve may be OFF Gas cylinder empty Pilot injector blocked Air in supply system  Loose connections Low gas pressure	Turn the gas valve ON Change to full cylinder Clean or replace pilot injector Purge air from lines by pressing the control knob until you smell gas Leak test all fittings Change to full cylinder
Pilot will not stay on	Lack of gas pressure  Cylinder close to empty Debris around pilot light Loose connections Thermocouple in poor condition Gas leak in line	Keep the control knob depressed for 10 - 20 seconds or more after the pilot flame is lit. Change to full cylinder Clean the area Tighten connections Replace thermocouple Replace line
Burner will not light	Pressure is low Opening blocked Control is not on Thermocouple in poor condition Pilot light assembly bent Location too windy	Change to full cylinder Remove and clean Turn knob to ON Replace thermocouple Replace or realign pilot light assembly Move heater to sheltered position
Burner flame is low	Supply hose bent or twisted Blockage in burner injector	Straighten hose and perform leak test Clean or replace burner injector
Burner flame goes off	Low gas pressure Blockage in burner injector	Change to full cylinder Clean or replace burner injector
Burner flame goes off immediately after ignition	Low gas pressure	Let the pilot flame stay lit for 10 minutes before setting control knob to LO
Emitter glows unevenly	Blockage in burner injector Heater base is not on a level surface Low gas pressure	Clean or replace burner injector Place heater on a level surface Change to full cylinder
Thick black smoke	Blockage in burner	Turn off the heater and let it cool. Remove blockage and clean burner inside and out
Carbon build up	Dirt or film on reflector and flame screen	Clean reflector and flame screen

**Declaration of Conformity** We, the sole importer into the UK, declare that the products listed here are in conformity with the following standards and directives.

**INFRARED PROPANE SPACE HEATER**  
Model LP352.V3 & LP352S.V2  
Gas Appliances (Safety) Regulations 1992  
(S.I. 1992/711)



The construction file for these products are held by the Manufacturer and may be inspected, by a national authority, upon request to Jack Sealey Ltd.

Signed by Mark Sweetman

Date 30th July 2007

For Jack Sealey Ltd.  
Sole importer into the UK  
of Sealey Power Products.

**NOTE:** It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

**IMPORTANT:** No responsibility is accepted for incorrect use of this product. **WARRANTY:** Guarantee is 12 months from purchase date, proof of which will be required for any claim. **INFORMATION:** For a copy of our latest catalogue and promotions call us on 01284 757525 and leave your full name and address, including postcode.



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