

The safe removal and installation of a butane gas bottle (“bombona”) using a clip-on regulator system



Location of the new bottle



1. Purpose

This procedure describes the safe removal and installation of a butane gas bottle (“bombona”) using a clip-on regulator system commonly supplied by Repsol in Spain.

2. Equipment and Components

- Butane gas bottle (standard Spanish “bombona”)
- Clip-on regulator (21 mm type)
- Flexible gas hose (pre-installed)
- Soapy water solution (for leak testing)

3. Safety Precautions

- Perform the procedure in a **well-ventilated area**
- Ensure **no open flames, sparks, or lit appliances** nearby
- Keep the bottle **upright at all times**
- Do not proceed if there is a **strong smell of gas**

4. Removal of Empty Bottle

- 4.1 Set the regulator lever to the **OFF** position
- 4.2 Ensure all connected gas appliances are turned off
- 4.3 Lift or press the regulator's **locking lever**
- 4.4 Pull the regulator **vertically upward** to detach from the bottle valve

5. Installation of New Bottle

- 5.1 Position the new bottle upright on a stable surface
- 5.2 Remove any protective cap from the valve
- 5.3 Align the regulator directly above the valve opening
- 5.4 Press the regulator **straight down** until it seats securely
- 5.5 Push the locking lever to the **ON** position (audible or tactile click may be felt)

6. Leak Test Procedure

- 6.1 Apply soapy water around the regulator-to-valve connection
- 6.2 Observe for bubble formation
 - **No bubbles** → connection is secure
 - **Bubbles present** → gas leak detected
 - Return lever to OFF
 - Remove regulator and repeat installation

7. Return to Service

- 7.1 Open the regulator (lever in ON position)
- 7.2 Light appliances according to manufacturer instructions
- 7.3 Monitor briefly for abnormal odor or sound

8. Troubleshooting

Issue	Possible Cause	Corrective Action
Regulator will not attach	Misalignment	Reposition and press vertically
Gas smell after installation	Poor seal	Refit regulator and repeat leak test
No gas flow	Valve not opened	Check lever position (ON)

9. Notes

- This system uses a **clip-on connection**, not a threaded fitting
- Periodically inspect the hose for wear or cracks
- Replace damaged regulators immediately