

LPG CYLINDER

MAINTENANCE GUIDE

Regular Inspection & Maintenance Procedures

Baraka Gas Ltd

Clean & Reliable Cooking Partner

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MAINTENANCE TIP: Regular maintenance extends the life of your LPG system, prevents accidents, and ensures optimal performance. A well-maintained system is a safe system.

1. Maintenance Schedule Overview

Frequency	Task	Duration
Daily	Visual inspection, smell check	2 minutes
Weekly	Check connections, hose condition	5 minutes
Monthly	Full leak test, regulator check	15 minutes
Every 3 Months	Hose replacement assessment	10 minutes
Every 6 Months	Deep cleaning, valve operation test	30 minutes
Annually	Professional inspection	1 hour
Every 2 Years	Replace regulator and hose	As needed

2. Daily Visual Inspection

Perform these quick checks every day before use:

- Smell test - detect any gas odor around cylinder area
- Check for visible damage to cylinder body
- Verify cylinder is upright and stable
- Ensure valve is accessible
- Look for rust, dents, or corrosion
- Check surroundings - no flammable materials nearby

3. Monthly Leak Testing Procedure

Required Materials: Soap solution (dish soap + water) or commercial leak detector, clean cloth

Steps:

1. Close the cylinder valve completely
2. Prepare soap solution (1 part soap to 3 parts water)
3. Apply solution to all connections:
 - Cylinder valve outlet
 - Regulator connection
 - Hose-to-regulator connection
 - Hose-to-appliance connection
4. Slowly open cylinder valve 1/4 turn
5. Watch for bubble formation (indicates leak)
6. If bubbles appear:
 - a) Immediately close valve
 - b) Tighten connection
 - c) Retest
 - d) If leak persists, contact professional
7. Clean off soap solution when test is complete

⚠ NEVER:

- ✗ Use matches or lighters to detect leaks
- ✗ Apply excessive force when tightening connections
- ✗ Ignore even small leaks - they can become dangerous

4. Hose Condition Assessment

Inspect your LPG hose every 3 months for:

Condition	Action
Cracks or splits in rubber	REPLACE IMMEDIATELY
Hardening or stiffness	REPLACE IMMEDIATELY
Discoloration or fading	Monitor closely, plan replacement
Visible wear at connections	REPLACE SOON
Age over 2 years	REPLACE (regardless of condition)
Kinks or permanent bends	REPLACE

5. Regulator Maintenance

Monthly Checks:

- Verify regulator is firmly attached to cylinder
- Check for cracks in regulator body
- Ensure pressure relief valve is unobstructed
- Look for corrosion or rust on metal parts
- Test regulator seal integrity with leak test

When to Replace Regulator:

- Visible cracks or damage
- Persistent leaks that cannot be fixed by tightening
- Age exceeds 2 years
- Inconsistent flame or pressure issues
- Physical deformation from impact

6. Cylinder Valve Care

Proper Operation:

- **Opening:** Turn slowly counterclockwise. Open fully, then close 1/4 turn
- **Closing:** Turn clockwise until hand-tight (never use tools)
- **Storage:** Always close valve when not in use, even briefly

Maintenance:

- Keep valve area clean and dust-free
- Do not lubricate valve (causes contamination)
- Protect with cap when cylinder is empty
- Report sticky or difficult-to-turn valves immediately

7. Cylinder Body Inspection

Safe Cylinder Indicators:

- ✓ Paint intact, minimal scratches
- ✓ No rust or corrosion
- ✓ Cylinder stands upright easily
- ✓ Manufacturing date visible and within 15 years
- ✓ No welding marks or modifications

Unsafe Cylinder Signs - STOP USING IMMEDIATELY:

- ⚠ Heavy denting or deformation
- ⚠ Excessive rust, especially at base
- ⚠ Bulging or swelling anywhere
- ⚠ Fire damage or burn marks
- ⚠ Unauthorized repairs or modifications
- ⚠ Age exceeds 15 years

8. Storage and Handling Guidelines

Proper Storage:

- Store in well-ventilated area
- Keep upright at all times
- Away from heat sources (min 1 meter)
- Protected from direct sunlight
- Separate from full and empty cylinders
- Secure against falling or tipping

Safe Handling:

- Never drop or throw cylinders
- Use trolley for 13kg and 50kg cylinders
- Do not roll or drag cylinders
- Keep valve protected during transport

9. Professional Service Requirement

Annual professional inspection is recommended and includes:

- Complete system leak test
- Pressure test verification
- Appliance burner inspection
- Ventilation adequacy assessment
- Compliance verification
- Safety certificate issuance

CONTACT BARAKA GAS for professional inspection services:

Nairobi: +254 722 240086 | Matuu: +254 733 216074

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10. Maintenance Record Keeping

Maintain a log book for all maintenance activities:

Date	Activity	Observations	Action Taken
Example: 01/12/2025	Monthly leak test	All connections OK	None required
Your maintenance records here...			

11. When to Call for Professional Help

- Persistent gas smell even with valve closed
- Leak that cannot be fixed by tightening
- Flame color is consistently yellow or orange
- Regulator making hissing sounds
- Cylinder showing signs of damage
- Unusual pressure fluctuations
- Any safety concerns or doubts

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