

Century C-BP-4T

Century C-BP-4T LP-Gas Engine Upgrade Kit

INSTRUCTION MANUAL FOR TOYOTA 4Y FORKLIFTS

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the Century C-BP-4T LP-Gas Engine Upgrade Kit for Toyota 4Y forklifts. This kit is designed to replace older propane systems with a new style, enhancing performance and reliability. Please read this manual thoroughly before beginning installation or operation to ensure proper function and safety.

The Century C-BP-4T kit is an aftermarket solution intended for specific Toyota 4Y engine models. It is crucial to verify compatibility before installation.

2. Safety Information

WARNING: Failure to follow these safety instructions may result in serious injury, property damage, or death.

- Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and protective clothing, when handling LP-Gas components or working on the engine.
- Ensure the work area is well-ventilated and free from ignition sources, open flames, sparks, or extreme heat. LP-Gas is highly flammable.
- Disconnect the forklift battery and completely shut off the LP-Gas supply at the tank before performing any installation, maintenance, or repair work.
- LP-Gas is heavier than air and can accumulate in low areas. Ensure adequate ventilation to prevent gas buildup.
- Installation and major maintenance should only be performed by qualified and certified personnel with experience in LP-Gas systems and forklift engines.
- This kit is not compatible with drive-by-wire engines. Attempting to install on such engines may cause damage or malfunction.
- Check all connections for leaks using a leak detection solution after installation and before operating the forklift.

3. Package Contents

The Century C-BP-4T LP-Gas Engine Upgrade Kit includes all necessary aftermarket components to convert your Toyota 4Y forklift engine to a new style propane system. Please verify that all items listed below are present and undamaged before beginning installation. If any components are missing or damaged, contact your supplier immediately.

- LP-Gas Carburetor Assembly
- LP-Gas Regulator/Vaporizer
- Fuel Hoses and Lines
- Mounting Hardware and Gaskets
- Associated Electrical Components (if applicable)
- Instruction Manual (this document)

4. Setup and Installation

Follow these steps carefully for proper installation. It is recommended that this procedure be performed by a qualified technician.

1. Preparation:

- Park the forklift on a level, stable surface.
- Engage the parking brake and chock the wheels.
- Turn off the engine and allow it to cool completely.
- Close the valve on the LP-Gas tank and disconnect the tank from the forklift.
- Disconnect the forklift battery to prevent accidental starting or electrical shorts.

2. Removal of Old System:

- Carefully disconnect and remove the existing propane system components, including the old carburetor, regulator, and associated hoses. Note the routing of existing lines for reference.
- Properly dispose of old components according to local regulations.

3. Installation of New Components:

- Mount the new regulator/vaporizer in the designated location, ensuring secure fastening. Refer to the original mounting points if possible.
- Install the new carburetor onto the engine manifold using the provided gaskets and hardware. Ensure a tight seal.
- Connect new fuel lines from the LP-Gas tank bracket (re-use existing bracket and lines where appropriate, as per product description) to the regulator, and from the regulator to the carburetor. Ensure all connections are tight and routed away from hot or moving parts.
- Connect any electrical components as per the wiring diagram (if provided with the kit or forklift service manual).

4. Leak Check:

- After all components are installed, reconnect the LP-Gas tank and slowly open the valve.
- Apply a leak detection solution (soapy water) to all LP-Gas connections. The presence of bubbles indicates a leak.
- If a leak is detected, immediately close the LP-Gas tank valve, tighten the connection, and re-check. Do not proceed until all leaks are eliminated.

5. Final Connections:

- Reconnect the forklift battery.
- Ensure all tools and loose items are removed from the engine compartment.

5. Operating Instructions

Once the Century C-BP-4T kit is installed and checked for leaks, follow these steps to operate your forklift.

1. Starting the Engine:

- Ensure the LP-Gas tank valve is fully open.
- Turn the ignition key to the 'ON' position, then to 'START'. The engine should start.
- If the engine does not start immediately, allow a brief pause (10-15 seconds) before attempting again to prevent flooding.

2. Engine Warm-up:

- Allow the engine to warm up for a few minutes before operating the forklift under load. This ensures proper fuel vaporization and lubrication.
- Monitor engine performance, idle stability, and exhaust for any unusual conditions.

3. Shutting Down:

- Turn the ignition key to the 'OFF' position.
- For extended storage, maintenance, or when changing LP-Gas tanks, close the LP-Gas tank valve completely.

6. Maintenance

Regular maintenance is essential for the longevity and safe operation of your LP-Gas system.

• Daily Checks:

- Inspect all LP-Gas lines and connections for signs of wear, damage, or leaks.
- Check the air filter for cleanliness. Clean or replace if necessary.

• Weekly Checks:

- Verify that the regulator/vaporizer is free from debris and securely mounted.
- Ensure all mounting hardware for the carburetor and regulator is secure.

• Periodic Maintenance:

- Consult your forklift's service manual for recommended engine maintenance intervals, including spark plug replacement, oil changes, and valve adjustments.
- Replace LP-Gas fuel filters as recommended by the manufacturer or if performance issues arise.
- Have the entire LP-Gas system inspected by a qualified technician annually to ensure compliance with safety standards and optimal performance.

7. Troubleshooting

This section provides solutions to common issues. For complex problems, consult a qualified technician.

• Engine Cranks but Does Not Start:

- Check if the LP-Gas tank valve is fully open.
- Verify there is sufficient LP-Gas in the tank.
- Inspect fuel lines for obstructions, kinks, or leaks.
- Ensure all electrical connections to the carburetor and regulator are secure.
- Check for proper spark at the spark plugs.

- **Rough Idling or Stalling:**

- Check for vacuum leaks around the carburetor or manifold.
- Inspect the air filter for clogging; clean or replace if dirty.
- Ensure the carburetor is properly adjusted (if adjustable).
- Verify the regulator is functioning correctly.

- **LP-Gas Odor Detected:**

- Immediately shut down the engine and close the LP-Gas tank valve.
- Evacuate the area and ensure proper ventilation.
- Do not operate the forklift until the source of the leak is identified and repaired by a qualified technician.

8. Specifications

- **Model:** Century C-BP-4T
- **Part Number:** C-BP-4T
- **Manufacturer:** Century
- **Compatibility:** Toyota Forklifts with 4Y engines (excluding drive-by-wire models)
- **Fuel Type:** LP-Gas (Liquid Propane Gas)
- **Item Package Quantity:** 1

9. Warranty and Support

Warranty Information: This Century C-BP-4T LP-Gas Engine Upgrade Kit is covered by a manufacturer's warranty against defects in materials and workmanship. Please refer to the warranty card included with your purchase or contact Century customer support for specific terms and conditions, including warranty duration and coverage details.

Customer Support: For technical assistance, replacement parts, or warranty claims, please contact Century customer service. When contacting support, have your model number (C-BP-4T) and purchase information readily available to expedite service.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question