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› [Danco HYR460 HydroRight Universal Water-Saving Toilet Repair Kit Instruction Manual](#)

Danco HYR460

Danco HYR460 HydroRight Universal Water-Saving Toilet Repair Kit

Model: HYR460

Brand: Danco

1. INTRODUCTION

The Danco HYR460 HydroRight Total Repair Kit is designed to enhance your toilet's efficiency by converting a standard toilet into a dual-flush system. This kit helps conserve water by reducing the volume used per flush and addresses common toilet issues such as non-functioning flappers, tangled chains, and leaky handles. The dual-flush converter provides a secure seal, eliminating leaks and offering two flush options: a Quick Flush for liquids and paper, and a Full Flush for solids.

Key Features:

- **Water-Saving Dual Flush:** Converts standard toilets to dual flush, reducing water consumption.
- **Eliminates Leaks:** Replaces worn-out flappers, handles, and faulty flapper chains with a permafit silicone seal.
- **Dual-Flush Button:** Features a short center button for Quick Flush and a complete push button for Full Flush.
- **Leak Detection & Calibration:** Detects leaks and allows for calibration to adjust water volume.
- **Easy Drop-in Installation:** Designed for installation without removing the toilet tank.

2. SAFETY INFORMATION

Always prioritize safety during installation and maintenance. Ensure the main water supply to the toilet is turned off before beginning any work. Wear appropriate personal protective equipment, such as safety glasses, to prevent injury. If you are unsure about any step, consult a qualified plumber.

3. PACKAGE CONTENTS

The Danco HYR460 HydroRight Total Repair Kit includes the following components:

- HydroRight Dual Flush Converter (HYR271)
- HydroClean Fill Valve (HC630)

- Push Button Handle
- J-Tube
- Smart Nut
- Rubber Ring
- Zip Tie

HYR460



TOTAL REPAIR KIT

2" DUAL FLUSH VALVE & PREMIUM PLUS FILL VALVE



CONVERTS ALMOST ANY TOILET TO DUAL FLUSH*

Not compatible with Mansfield® Brand Toilets

✓ UNIVERSAL FILL VALVE ✓ SAVES** WATER ✓ EASY TO INSTALL ✓ NO TOOLS REQUIRED

* For two piece toilets. 1.6 GPF and higher.

** 15,000 Gallons assumes a family of four, average water/sewer rates and a properly adjusted HydroRight installed in the most frequently used toilet.

Figure 1: Danco HYR460 HydroRight Total Repair Kit components as shown on packaging.

4. INSTALLATION INSTRUCTIONS

Follow these steps carefully to install your Danco HYR460 HydroRight Universal Water-Saving Toilet Repair Kit.

General Installation Overview:

Video 1: Official Danco installation guide for the HydroRight Dual Flush Water-Saving Toilet Repair Kit.

Step-by-Step Guide:

1. **Turn Off Water Supply & Flush Toilet:** Locate the water supply valve behind the toilet and turn it clockwise to shut off the water. Flush the toilet to empty the tank.
2. **Remove Old Toilet Handle:** Unscrew the nut securing the old toilet handle from inside the tank and remove the handle.
3. **Remove Old Fill Valve:** Disconnect the water supply line from the bottom of the old fill valve. Unscrew the mounting nut and remove the old fill valve from the tank.
4. **Remove Flapper:** Detach the old flapper from the flush valve and remove its chain from the old toilet handle.
5. **Attach J-Tube to New Fill Valve:** Connect the blue J-tube to the new HydroClean fill valve.
6. **Place the Fill Valve in the Tank:** Insert the new HydroClean fill valve into the hole at the bottom of the tank.
7. **Hand Tighten the Smart Nut:** From underneath the tank, hand-tighten the smart nut onto the fill valve. *Tip: Don't overtighten; listen for 1-3 audible clicks.*
8. **Engage the Float Lock:** Push down the float lock on the fill valve to secure its position.
9. **Adjust Height:** Adjust the height of the fill valve until the top of the float is even with the top of the water line.
10. **Separate Dual Flush Valve:** Twist to unlock and pull to separate the dual flush valve housing from its base.
11. **Slide Base Down Overflow Tube:** Slide the base of the dual flush converter down the existing overflow tube. *Tip: The valve must sit directly in the middle of the existing flush valve.*
12. **Fill Gap with Cam:** If there is a gap, use the provided cam to ensure a snug fit around the overflow tube.
13. **Slide Rubber Ring Over Overflow Tube:** Slide the rubber ring over the overflow tube and down onto the base for a secure seal.
14. **Tighten Zip Tie:** Use the zip tie to secure the base to the overflow tube.
15. **Attach Housing to Base and Twist to Lock:** Reattach the dual flush valve housing to its base and twist to lock it into place.
16. **Install Push Button Handle:** Insert the push button handle through the hole in the toilet tank lid.

17. **Hand Tighten Button:** Secure the button from underneath the lid by hand-tightening the nut.
18. **Attach Control Box:** Hold down the blue trigger on the control box and attach it to the push button handle mechanism.
19. **Install Refill Tube:** Connect the refill tube from the fill valve to the overflow tube.
20. **Attach Clip to Overflow Tube:** Secure the refill tube with the clip to the overflow tube.
21. **Turn On Water Supply:** Slowly turn the water supply valve counter-clockwise to restore water to the toilet tank.
22. **Adjust Water Level:** Disengage the float lock and use the thumb screw to adjust the water level. *Tip: If too high, twist counter-clockwise. If too low, twist clockwise.*



Figure 2: The Danco HydroRight Dual Flush system installed inside a toilet tank.



**Fits 1.6 to 3.5+ GPF (gallons per flush)
Standard 2-piece Toilets with 2" Flush Valve**

Figure 3: Adjustable height and compatibility details for the Danco HydroRight system.

5. OPERATING INSTRUCTIONS

The Danco HYR460 HydroRight kit provides two flushing options:

- **Quick Flush:** Press the short center button for a reduced water flush, ideal for liquids and paper. This option is typically sufficient for 4 out of 5 flushes.
- **Full Flush:** Press the complete push button for a standard water volume flush, suitable for solids.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Danco HydroRight system.

- **Avoid Bleach Tablets:** Do not use bleach tablets in the toilet tank, as they can damage the components and void the warranty.
- **Clean Flapper Valve:** Periodically inspect and clean the silicone seal of the dual flush converter to prevent sediment buildup, especially in areas with hard water. This helps maintain a proper seal and prevents leaks.
- **Leak Detection:** The system is designed to detect leaks. If you notice the tank refilling without a flush, refer to

the troubleshooting section.

7. TROUBLESHOOTING

Here are solutions to common issues you might encounter:

Issue: My Tank Is Refilling & Toilet Was Not Flushed?

- **Check Blue Dome Gasket:** Ensure the blue dome gasket on the dual flush converter is fully and properly sealed onto the flush valve opening.

Issue: I Am Having To Hold My Quick Flush Button In Order To Get A Full Flush?

- **Check Button Installation:** Verify that the push button handle is correctly installed and not obstructed.
- **Check Blue Float Height:** Ensure the blue float on the fill valve is at the correct water level. Adjust if necessary.
- **Check Control Cable For Kinks:** Inspect the control cable connecting the button to the dual flush mechanism for any kinks or obstructions.

Issue: My Toilet Bowl Doesn't Fully Empty With Quick Flush?

- **Check Water Level:** Ensure the water level in the tank is in line with the fill valve float. Adjust if too low.
- **Check That Jets Are Operating:** Verify that the jets in the toilet bowl are operating correctly during a flush.
- **Check Bowl Water Level:** Confirm that the water level in the toilet bowl is adequate.

Compatibility Notes:

- The Dual Flush Converter works with standard 2-inch flush valves.
- Requires a 10-inch minimum clearance from the highest point of the flush valve opening to the inside of the tank lid.
- **NOT COMPATIBLE** with 1.28 GPF toilets, toilets with 3-inch flush valves, or Mansfield Brand toilets.

8. SPECIFICATIONS

Attribute	Detail
Model Number	HYR460
Brand	Danco
Color	White
Material	Plastic
Item Weight	1.63 pounds (0.74 Kilograms)
Product Dimensions	7.2 x 3.5 x 12.6 inches
Installation Type	Floor Mounted
UPC	188670000442

Warranty	5 year
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9. WARRANTY INFORMATION

The Danco HYR460 HydroRight Universal Water-Saving Toilet Repair Kit comes with a 5-year warranty. For specific details regarding coverage and claims, please refer to the warranty documentation included with your product or contact Danco customer support.

10. CUSTOMER SUPPORT

If you have any questions, require assistance with installation, or need to troubleshoot an issue not covered in this manual, please contact Danco customer support. Visit the official Danco website for contact information and additional resources.