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BrassCraft BSSBCT020

BrassCraft BSSBCT020 Adjustable Anti-Siphon Toilet Tank Fill Valve and Hornet V Flapper Kit

Instruction Manual

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1. Product Overview

The BrassCraft BSSBCT020 Adjustable Anti-Siphon Toilet Tank Fill Valve and Hornet V Flapper Kit is designed to efficiently regulate water flow into your toilet tank after flushing. This kit provides a durable and easy-to-use solution for toilet repair and maintenance. Its anti-siphon design prevents backflow of contaminated water into the fresh water supply, ensuring household safety. The fill valve features a patented 1/4-turn height adjustment, allowing it to fit various toilet tank sizes.



Figure 1: The BrassCraft BSSBCT020 Adjustable Anti-Siphon Toilet Tank Fill Valve and Hornet V Flapper Kit, featuring its black and yellow components.

2. Included Components

The BrassCraft BSSBCT020 kit includes the following parts:

- (1) Adjustable Anti-Siphon Toilet Tank Fill Valve (adjusts from 9" to 14" height)
- (1) Hornet V Flapper
- (1) Metal "S" Clip
- (1) Plastic Refill Tube
- (1) Plastic Lock Nut
- (1) Plastic Fill Valve Connector Nut
- (1) Rubber Cone Washer
- (1) Rubber Shank Washer

3. Setup & Installation

Follow these steps for proper installation of your BrassCraft fill valve and flapper kit. Always ensure the water supply to the toilet is turned off before beginning any work.

1. **Turn Off Water Supply:** Locate the shut-off valve at the base of the toilet and turn it clockwise until the water flow stops. Flush the toilet to empty the tank.
2. **Remove Old Fill Valve:** Disconnect the water supply line from the bottom of the old fill valve. Unscrew the lock nut from underneath the tank and remove the old fill valve.
3. **Prepare New Fill Valve:** The fill valve can be adjusted in height from 9 to 14 inches using its patented 1/4-turn adjustment mechanism. Adjust the valve height to ensure the critical line (marked on the valve) is at least 1 inch above the top of the overflow tube when installed.
4. **Install New Fill Valve:** Insert the new fill valve into the hole at the bottom of the toilet tank. Secure it from underneath with the plastic lock nut, ensuring the rubber shank washer is properly seated for a watertight seal. Do not overtighten.
5. **Connect Refill Tube:** Attach one end of the plastic refill tube to the fill valve's refill port and clip the other end to the top of the overflow tube using the metal "S" clip.
6. **Install Hornet V Flapper:** Remove the old flapper. Attach the new Hornet V Flapper to the overflow tube's ears. Connect the flapper chain to the flush lever, ensuring there is slight slack when the flapper is closed.
7. **Reconnect Water Supply:** Reconnect the water supply line to the plastic fill valve connector nut at the bottom of the new fill valve. Hand-tighten, then use a wrench for a final 1/4 turn.
8. **Restore Water Supply:** Slowly turn the water supply valve counter-clockwise to restore water flow to the toilet tank. Check for leaks around the fill valve and supply line connections.
9. **Test Operation:** Flush the toilet several times to ensure the fill valve fills the tank correctly and shuts off completely, and the flapper seals properly.

Note: *Some rubber components, such as the gasket/washer, may appear as a single piece. If necessary, carefully separate these components as indicated in the detailed instructions provided with the product to form the required washer and conical shaped gasket for proper installation.*

4. Operation

The BrassCraft BSSBCT020 fill valve operates by refilling the toilet tank with water after each flush. When the toilet is flushed, the water level in the tank drops, causing the float mechanism within the fill valve to activate. Water then flows into the tank until the desired water level is reached, at which point the float rises and signals the valve to shut off the water supply. The anti-siphon design ensures that tank water cannot flow back into your home's potable water system.
The Hornet V Flapper is designed for an effective seal, preventing water from continuously leaking into the bowl and ensuring a complete flush.

5. Maintenance

Regular maintenance helps ensure the longevity and efficient operation of your toilet fill valve and flapper.

- **Inspect for Leaks:** Periodically check for any visible leaks around the base of the fill valve or the water supply line connection.
- **Check Flapper Seal:** Ensure the Hornet V Flapper creates a tight seal at the bottom of the tank. A poor seal can lead to a running toilet.
- **Clean Components:** Over time, mineral deposits can accumulate on internal components. If the fill valve becomes sluggish or fails to shut off completely, turn off the water supply and carefully disassemble the top

cap of the fill valve to clean any debris or mineral buildup.

- **Chlorine Tabs:** This valve is designed to be compatible with chlorine tabs, which can help keep the toilet bowl clean. However, always ensure tabs are placed in the tank according to their manufacturer's instructions and do not obstruct the fill valve's operation.

6. Troubleshooting

If you encounter issues with your BrassCraft fill valve, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Toilet runs continuously or cycles on and off.	Flapper not sealing, fill valve not shutting off, or water level set too high.	• Check flapper for proper seating and chain length. • Adjust fill valve height to ensure water level is below overflow tube. • Clean fill valve components if mineral buildup is present.
Fill valve leaks from the top cover.	Top cap not seated correctly or internal seal issue.	• Turn off water supply. Remove and re-seat the top cap, ensuring it is securely in place. • Inspect the internal rubber seal for damage or debris.
Toilet fills slowly or not at all.	Low water pressure, clogged fill valve, or kinked refill tube.	• Ensure water supply valve is fully open. • Clean any debris from the fill valve's inlet screen. • Check the refill tube for kinks or obstructions.
Toilet makes a vibrating or humming noise during fill.	Loose or worn internal components in the fill valve.	• Turn off water supply and inspect the fill valve for any loose parts. • If the noise persists after inspection and cleaning, replacement of the fill valve may be necessary.

7. Specifications

Feature	Detail
Model Number	BSSBCT020 (also referred to as BCT020)
Brand	BrassCraft
Material	Metal, Plastic
Adjustable Height	9" to 14"
Item Dimensions (L x W x H)	14 x 0.88 x 3 inches
Item Weight	12 ounces
Inlet Connection Size	1.5 inches

Feature	Detail
Outlet Connection Size	0.75 inches
Valve Type	Globe Valve
Specification Met	CE

8. Warranty & Support

For specific warranty information or technical support regarding your BrassCraft BSSBCT020 Adjustable Anti-Siphon Toilet Tank Fill Valve and Hornet V Flapper Kit, please contact BrassCraft customer service directly. Refer to the packaging or the official BrassCraft website for the most current contact details and warranty terms.

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