

How to Replace a Toilet Fill Valve – Step-by-Step for Beginners & Save Money

Summary

This video demonstrates replacing a toilet fill valve and supply line, from shutting off and draining the tank to installing the new parts. It also explains how to size and tighten the supply line, then restore the water and check for leaks.

Key points

- Shut off the toilet water and flush to drain the tank.
- Remove the old supply line and fill valve, catching leftover water and cleaning the tank opening.
- Adjust the new fill valve height and secure it without overtightening.
- Attach the refill tube and clip it to the overflow pipe.
- Choose a supply line longer than the measured distance between the shutoff valve and fill valve.
- Hand-thread connections carefully to avoid cross-threading, and avoid overtightening.
- Turn the water back on, refill the tank, and flush several times to check for leaks.

Chapters

0:00 Shut Off Water and Remove Supply Line (highlight: slide 6)

1:48 Remove the Old Fill Valve (highlight: slide 10)

3:00 Install the New Fill Valve (highlight: slide 16)

5:12 Select and Install the Supply Line (highlight: slide 24)

8:06 Restore Water and Test for Leaks (highlight: slide 29)

Welcome back to another video by the building expert team. Today. We are going to replace a toilet supply line and fill valve. We are gonna start by turning off the water to the toilet. By turning the shut off valve clockwise, this is a multi-turn shut off valve.



Slide 1 · 0:00

You might have a shut off valve that only requires a quarter turn to turn off the water. Once the water is off, make sure to flush the toilet drain as much water as possible from the tank by



Slide 2 · 0:18

Once the water is off, make sure to flush the toilet drain as much water as possible from the tank by holding the flush lever down. Now we are gonna start unthreading the supply line from the shower valve by turning it counterclockwise using an adjustable wrench.



Slide 3 · 0:30

I recommend using two pliers, one to hold the valve in place and the second one to unthread. Once the nut is loose, you can use your hands to unthread.



Slide 4 · 0:54

Once the nut is loose, you can use your hands to unthread. Use a channel lock plier to loosen the nut from the fill valve shank by turning it counterclockwise, and use your hands to do the rest



Slide 5 · 1:12

Use a channel lock plier to loosen the nut from the fill valve shank by turning it counterclockwise, and use your hands to do the rest once the nut is completely loose. Pull out the supply line Make sure you have a small bowl or at least towels ready to catch any dripping water.



Slide 6 · 1:18

We have successfully taken off the supply line. Now it's time to uninstall the fill valve. Take a channel lock plier and start unthreading the lock nut from the fill valve shank by turning it counterclockwise.



Slide 7 · 1:48

While unthreading the nut, use your other hand to put pressure on top of the fill valve so that the gasket is still engaged with the tank. That way, even when the nut is off, water won't start coming out of the hole.



Slide 8 · 2:06

Once the nut is off, put a container under the hole and release the pressure. Water will start coming out of the hole. Once the container is full, put the pressure back on to stop the water.



Slide 9 · 2:24



Repeat this process until the tank is empty, some people like to soak all the water before unthreading the nut, which is fine, but in my opinion, this method is way faster, once the water is drained, remove the fill valve.

Slide 10 · 2:42

I'm gonna clean off the buildup inside the tank so that when I install the new fill valve, gasket engages properly with the tank, we are ready to install the new fill valve, this is a universal fill valve.



Slide 11 · 3:00

In the box, you will get a fill tube, retaining clip, lock nut, fill valve assembly, and fill tube to start the installation. Dry fit the fill valve in the tank hole with beveled end of the washer facing down.



Slide 12 · 3:18

And check if you have approximately 3 inches from top of the fill valve cap to the overflow pipe. If not, you can adjust the fill valve height by twisting the lower shank counterclockwise will increase the height and clockwise will decrease the height.



Slide 13 · 3:36

Also, make sure that the retaining ring is locked in place once the height is adjusted. Hold it in place with your dominant hand and start threading the lock nut from the bottom with the other hand.



Slide 14 · 3:54



This is a plastic nut which is very easy to crossthead, so be very careful. Hand tighten first and then use a channel lock plier to give it an extra quarter to half turn.

Slide 15 · 4:12

Make sure you hold the valve in place with your dominant hand while tightening. Tightening can twist the fill valve, which can interfere the fill valve or flush handle mechanism. Once the fill valve is tightened, attach one end of the refill tube to the fill valve and the other end to the retainer clip.



Slide 16 · 4:30

Once the fill valve is tightened, attach one end of the refill tube to the fill valve and the other end to the retainer clip.



Slide 17 · 4:54

Now attach the retainer clip to the overflow tube, making sure that the refill tube dispenses is water inside the overflow tube. We have successfully installed the fill valve, now it's time to install the toilet supply line.



Slide 18 · 5:12

We are using a 16 inch three-eighth female compression by a 7-eighth ballcock thread toilet supply to connect the water supply. Tubes come in various lengths, such as 6 9 12 16 or 20 inches.



Slide 19 · 5:30

How would you know the length of the supply line you need? Normally, you would just measure the distance between the shut-off valve and fill valve.



Slide 20 · 5:48

Normally, you would just measure the distance between the shut-off valve and fill valve. So, let's say the distance is 10 inches. Choose the next size ply line, which would be 12 inches, but if the distance is exactly 12 inches, don't choose the exact size, always choose the next size, which is 16 inches.



Slide 21 · 5:54

Now, start tightening the toilet ply line onto the shower valve, start threading with your hands and snug it with an adjustable wrench. Use another wrench as backup so that you don't twist the pipe inside the wall or under the floor.



Slide 22 · 6:18

Do not over tighten because that can damage the rubber gasket inside. The supply nut Once the nut is tight, start threading the other end of the supply tube to the toilet fill valve.



Slide 23 · 6:36

Be very careful while starting these threads, it's very easy to cross thread them. Hand tight is usually enough on these modern toilet supply lines, but if you feel that you haven't gotten enough grip to tight, you can use a channel lock. For an extra court return.



Slide 24 · 6:48

Do not over tighten since they are plastic. Over tightening can strip threads, damage the washer or crack fittings. Over tightening can also twist the flush valve inside the tank, which will cause further issues to the toilet function.



Slide 25 · 7:12

If you are worried that you will over tight or leave it loose. You can get a supply line that is set to the right torque, which will start spinning freely once you reach the right torque.



Slide 26 · 7:30

If the supply tube is too long, you can always loop the supply line.
Leave at least two to three inches of slack in the supply line, but never
use a supply line that barely reaches.



Slide 27 · 7:48

Adjust the supply line direction if needed to avoid any stress. Once the supply tube is tight, turn on the water to the toilet by turning the water valves counterclockwise.



Slide 28 · 8:06

Once the supply tube is tight, turn on the water to the toilet by turning the water valves counterclockwise. Now, let the tank fill up and flush the toilet a few times to test the fill valve mechanism and supply tube for any leaks. That's all for today's video. Links to the materials and tools I used are in the video description below.



Slide 29 · 8:18

Links to the materials and tools I used are in the video description below. Make sure to like the video and subscribe to our channel. See you next time.



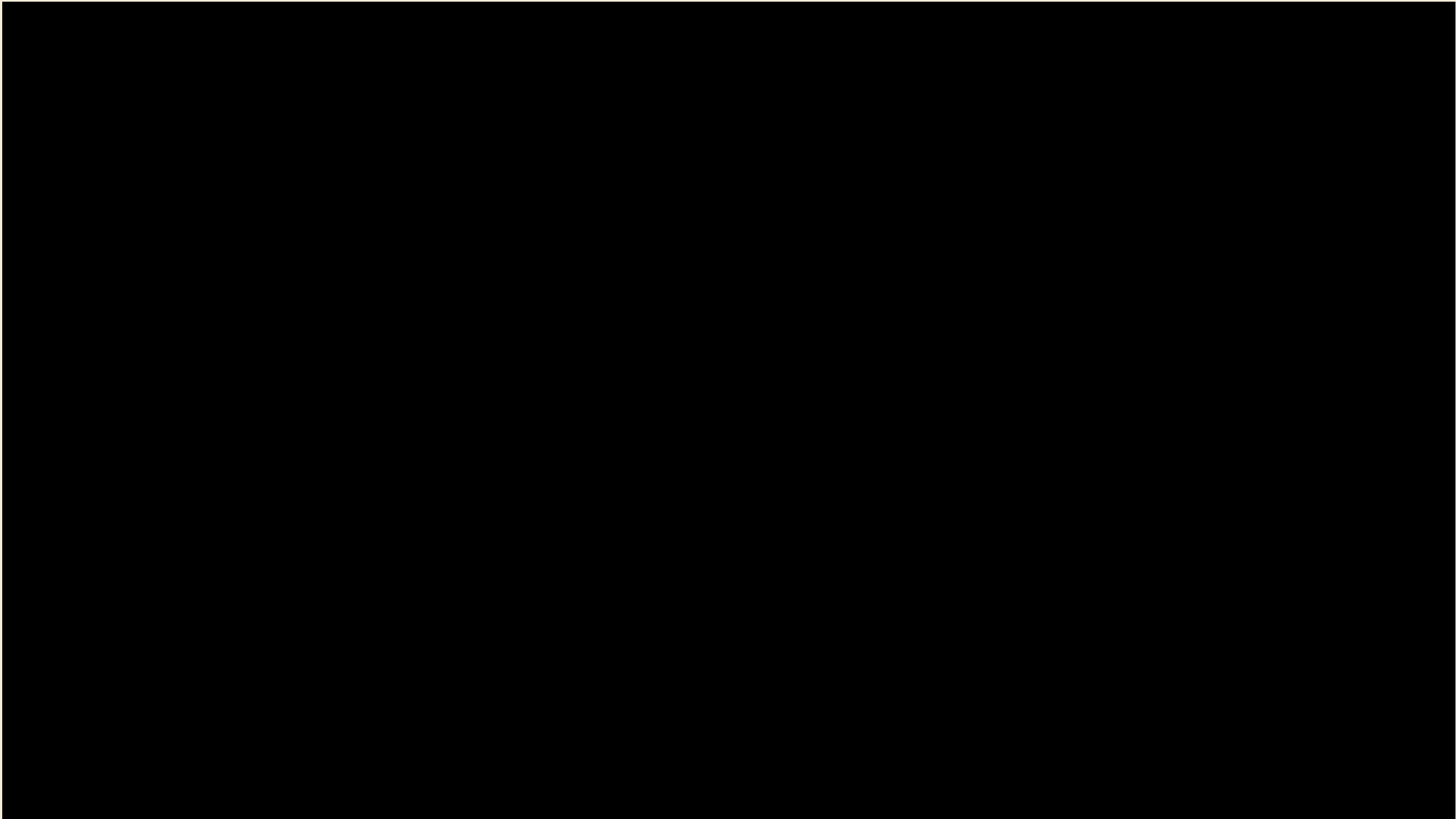
Slide 30 · 8:42



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Slide 31 · 8:54

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Slide 32 · 9:18