## Home Work

# Hydrogen gas can build up in unused hot water systems



JOE GAGNON U.S. Naval base. The article was titled "The Dishwashar Evaluded"

washer Exploded."

That's the call a fire department received last winter from a

In last week's column I wrote about a certain brand of that check, the inspector ran the cold water in the kitchen about a certain brand is made and run the water in the Strap of and allowed sewer grant brand commode and run the water in the Strap of and allowed sewer grant commode and run the water in the Strap of and allowed sewer grant and the commode and run the water in the brands and that bathroom. About three minutes after she started the dishwasher and raticle writen by Ron Cook who lives on a cross the kitchen, which damaged the cabinets, plumbing and specific properties of the capture of the commode and run the water in the Strap of and the that bathroom. About three minutes after she started the dishwasher and raticle writer of the capture of the capture of the commode and run the water in the Strap of and the water in the Strap of and the the dishwasher and raticle writer of the capture of the ca

Tests conducted

At first, investigators thought water in the '5' trap evaporated and allowed sewer gas to seep into the dishwasher and explode. The next day, Navy Occupation-leading the control of the

masher, turn on all hot-water faucets and let the water flow.

The safety specialist returned to three vacant housing units and ran the hot water to test for emissions of bydrogen gas. Meter readings went off scale in these units. Then he ran hot water in three occupied units and got zero readings. When he ran hot water in an upstairs bathroom in the unit where the dishwasher exploded, he got an extremely high reading.

After NAVOSH personnel made several calls to Frigidaire doubt the incident, a person from their legal department featured a call and told him that Frigidaire was sending two engineers to investigate the exploding dishwasher. The engineers and NAVOSH personnel tests and in water, so it remains in the migrates to the upper levels of

the house, where it harmlessly expels from water faucets there. Occasionally, it can end up trapped in the plumbing lines. In that case, when a lower level faucet (or dishwasher) is turned faucet (or dishwasher) is turned on, the gas is pushed through the outlet rather than finding its way to the upper level. Next week: How homeowners can prevent similar dangers in their homes.

Joe Gagnon can be heard on Newstalk 760, WJR-AM, every-Saturday and Sunday mornings. He is a past president of The Society of Consumer Profession-cis. His second book, "The Words and Wisdom of The Appliance Doctor" is available in book setores. His phone number is (313) 873-9789.



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I got a call from my wife's friend, Sue, about the constant d'drip, drip' from the faucte in fixture. If you independ the faucte in fixture is a faucte in fixture in fixture

req. ing olumber.

It's usually changing the valve washer and sometimes, as in Sue's case,

sometimes, as in Sue's case, resurfacing the valve seat.
We'll look at how to resurface the seat and replace a washer on a typical compression faucet. Compression faucets have separate stem valves for hot and cold.

## What you'll need

What you'll need
Since every manufacturer
builds faucets a bit differently,
the tools needed for this job will
vary. In most cases you'll need
flat and Philips screwdrivers,
Channel-lok pliers, adjustable
wrench, a deep well socket with
ratchet or a plumbing hexwerench of the proper size and a
seat dresser or seat wrench,
depending on whether the seat is
replaceable.

If you don't know whether on
the flaucet has replaceable
seats when you start, you'll find

I got a call out as you progress.

The fix

Obviously you'll need to shut off the water supply to the fixture. If you are lucky, there will be independent shutoffs near the fixture. If you are lucky, there will be independent shutoffs near the fixture. If not, you may need to trusted the control of the control

Once the decorative pieces are removed, you should see the hex removed, you should see the hex head of the stem valve. Unscrew it with an adjustable wrench or deep well socket wrench. Be certain to use the appropriate sized wrench and watch for corrosion-stuck parts – otherwise the soft brass parts may be damaged beyond repair.

Bathtubs faucets are usually set behind the wall, which requires a deep well socket or plumbing hexagon wrench (usually inexpensive and found at a hardware store) to remove the stem. You may also need to care-Once the decorative pieces are



Plumbing parts: A stem valve washer and screw can be disassembled.

fully chip some of the wall tile to access it, but he careful so you don't have to replace tile, too.

Stom valves have a neoprone washer which seals against a seal' (a metal surface inside the fauter't that meets the washer when closed). As these seats corrode, they become rough and quickly went the washers.

Once the stem is removed, feel or look at the seat and check for roughness. If it is rough, it will need to be replaced or resurfaced.

6 p.m. - 8 p.m. 16 a.m. - 6 p.m. 16 a.m. - 4 p.m.

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Change water valves to stop dripping

A square or hexagonal hole in the seat indicates you should be able to replace it. (This square or hexagon shape may merely be indentations in a round hole). A round hole, with no indentations, means the seat is probably not replaceable.

To remove replaceable seats, you will need a seat wrench. This inexpensive tool is an "L's-shaded steel rod with a tapered hex on one end and a tapered square on the other. Insert the proper end into the seat and carefully turn counter-clockwise to remove the seat. Again, watch for corrosion stuck parts.

Remove the scrow holding the washer in place. Take the washer and old eat with you to a hardware store for a proper match up when purchasing the new parts.

Replace the washers and clean all threads before putting everything back together in the reverse order. Be careful with reassembly. Brass threads are easily damaged.

If you find a consciple coable seat after removing the valve stem, it will need to resurfaced rather than replaced, using a fairly inexpensive tool, called a seat redresser, available at one. I hardware stores. Follow the lost. Reassemble the faucet as above.

Harry Jachym, a licensed builder, lives in Plymouth.





### Class Dates & Times Sat. March 10th ...9:30am

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