

# The 45rpm Phono Gazette

## One Tube Wonder conversion

### By Chris Cuff



**Chris showing off an RCA 9ED31 2-speed in nice condition at the Kutztown, PA Swapmeet**

After a fun trip to Kutztown PA radio meet, I picked up a couple of one tube wonders (actually, two tubes- but as one is only the 35W4 rectifier, it's still only a one tuber) I decided to make them better- adding an extra amp stage. Following the schematics in Phil's book, it is an easy project. The tube added is the metal 12SQ7, in the socket that used to be the 50L6. The amp tube is now a 50C5, and the 35W4 remains unchanged. It is easier to remove ALL existing wiring and parts and start from scratch. The only things I do not remove are the output transformer and the tube sockets. BTW- The 25L6 based amps can be easily modified by putting a 6AV6 in the amp. The performance is fine, and it works fine with the

existing series string type motor. Here is pic #1- showing two of the same amp- one before, one after mods:  
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## WORKBENCH



### Most Unusual Uses for WD-40

*Although I have been known to use WD-40 to clean some of the components on the 45 phonographs, I was never aware of the multitude of uses this product has. This article was taken from the monthly newsletter put out by a local antique radio club in Washington state.*

This product began from a search for a rust preventative solvent and degreaser to protect missile parts. WD-40 was created in 1953 by three technicians at the San Diego Rocket Chemical Company. Its name comes from the project that was to find a water replacement compound. They were successful with the fortieth formulation, thus WD-40.

The Corvair company bought it in bulk to protect their Atlas Missile parts. The workers were so pleased with the product, they began smuggling it out to use at home. The executives decided there might be a consumer market for it and put it in aerosol cans. The rest is history.

It is a carefully guarded recipe known only to four people. One of them is the brewmaster. There are about 2.5 million gallons of the stuff manufactured every year. It gets its distinctive smell from a fragrance that is added to the brew.

Ken East, one of the original founders, says there is nothing in WD-40 that would hurt you.

Here are some of the uses;

- Protects Silver from tarnishing
- Cleans and lubricates guitar strings
- Gets oil spots off concrete driveways
- Gives floors that just waxed sheen without making it slippery
- Keeps flies off cows
- Restores and cleans blackboards
- Removes lipstick stains
- Loosens stubborn zippers
- Untangles jewelry chains
- Removes stains from stainless steel sinks
- Removes dirt and grime from the barbeque grill
- Keeps ceramic/terra cotta garden pots from oxidizing
- Removes tomato stains from clothing
- Keeps glass shower doors free of water spots
- Camouflages scratches in ceramic and marble floors
- Gives a children's play gym slide a shine for a super fast slide.
- Lubricates gear shift and mower deck lever for ease of handling on riding mowers.
- Lubricates tracks in sticking home windows and makes them easier to open.
- Spraying an umbrella stem makes it easier to open and close.
- Restores and cleans padded leather dashboards and vinyl bumpers
- Restores and cleans roof racks on vehicles
- Lubricates wheel sprockets on tricycles, wagons, and bicycles for easy handling.
- Lubricates fan belts on washers and dryers and keeps them running smoothly.
- Keeps rust from forming on saws and saw blades and other tools.

- Removes splattered grease on stove
- Keeps bathroom mirror from fogging
- Lubricates prosthetic limbs
- Keeps pigeons off the balcony (they hate the smell)
- Removes all traces of duct tape.
- I have even heard of folks spraying it on their arms, hands, and knees to relieve arthritis pain
- The favorite use in the state of New York – WD-40 protects the statue of Liberty from the elements.
- WD-40 attracts fish. Spray a little on live bait or lures and you will be catching the big one in no time. It's a lot cheaper than the chemical attractants that are made for this purpose. This is illegal in some states.
- Use it for fire ant bites, It takes the sting away immediately and stops the itch.
- WD-40 is great for removing crayon from walls.
- If your daughter has washed and dried a tube of lipstick with a load of laundry, saturate the lipstick spots and rewash.
- If you spray your distributor cap with WD-40, it will displace the moisture and allow the car to start.
- WD-40 removes sticky tape residue.
- It removes black scuff marks from the kitchen floor.
- Bug guts can eat away the finish of your car. Clean them off with WD-40.

If you have an interesting use for WD-40, share it with us!

#### One Tube Conversion- continued

And here is the underneath of the newly modified amp:



I can draw up a detailed schematic if anyone needs it. Chris.

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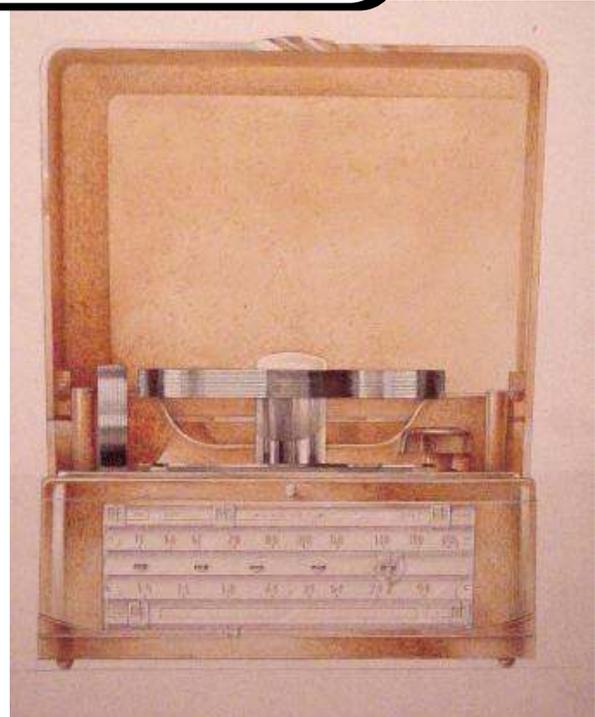
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# The 45rpm Phono Gazette

## Artist Illustrations of the proposed 45 rpm machine and record from the early 1940s



Artists rendering of early 45 player



Minuette with top cover opened



This model was referred to as the "Minuette"

If you have been following the gazette articles you know that the original prototype of the 45 rpm record and player was shown to RCA management in 1942. Artists were also hired to depict the new machine and what you see here are some of their drawings. Since the machine was not put into production at this time, these drawings were kept locked up. By the time the machine was introduced (7 years later) the illustrations were no longer an accurate account of what the machines would look like. But it is interesting to see what RCA Victor was ready to manufacture and offer to the public in the early 1940s.