

Inside the outer cover --

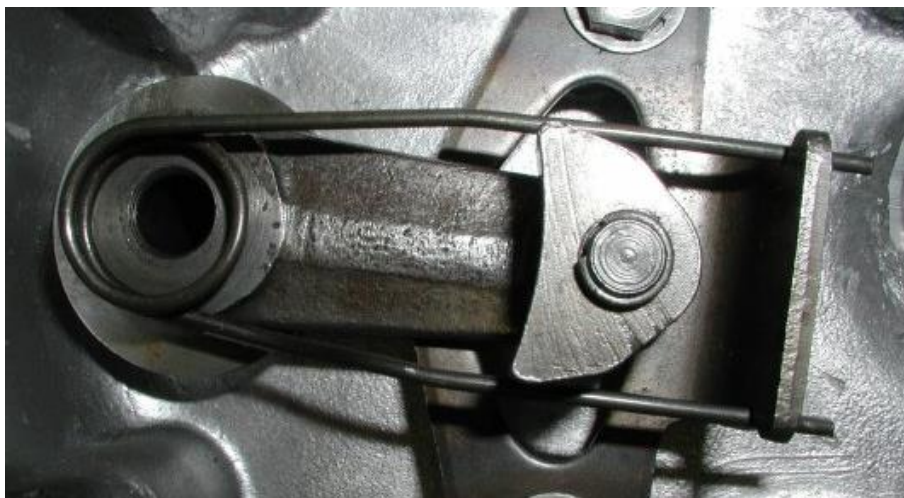
You can put the ratchet assembly together, being held together by the two springs and then bolt to the outer cover or assemble on the outer cover. The following pictures and the parts manual show how the parts go together.

There are three important things to check when putting this assembly together:

- The ratchet spring (04-0038) is bent correctly so the legs **DO NOT** touch the gearshift paw (04-0024), but there should be just a very small but perceptible clearance on each side.



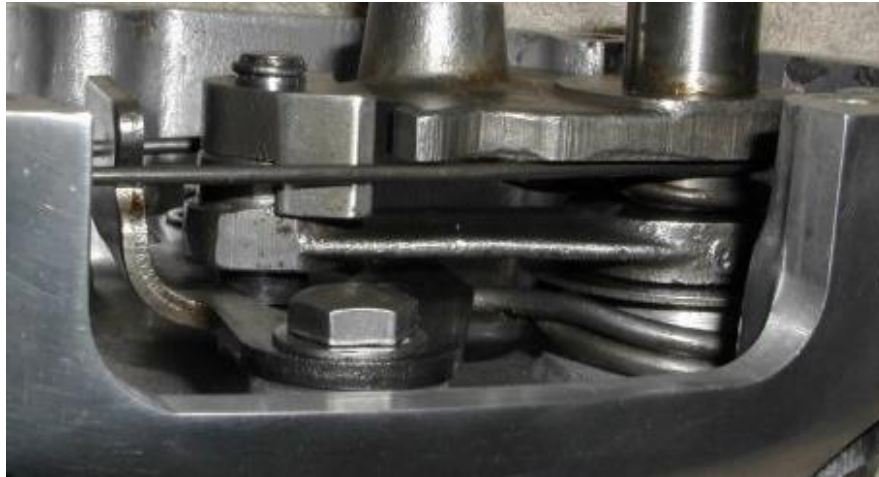
Incorrect ratchet spring fitment.



Correct spring fitment.

Even new factory springs must be checked. It is very easy to fix a spring with the incorrect bend. Just take a pair of pliers and straighten out the legs slightly. Straighten them out a small bit at a time and keep checking until you achieve the correct fitment.

- The ratchet spring must be assembled so it is flat against the ratchet plate as shown in the following picture.



The ratchet assembly.

- The gearshift pawl, **MUST** rotate freely on the pawl pivot pin (04-0067) in order for gear change to work properly. I will normally remove the pawl, clean and polish the pin, lubricate and reassemble, to ensure free rotation.



The ratchet assembly seen from the side.

Installing the outer cover --

- Clean off the sealing edges of the outer cover and the inner case with contact cleaner. I spray the cleaner on a shop towel and wipe it around the edges.
- Apply gasket sealer to both sides of the outer cover gasket (04-0055), the sealing edge of the outer cover and the inner case. Again I use Gasegacinch (part # [78-401001](#)) to seal the gaskets in the gearbox.
- After letting the sealer sit the required time, fit the gasket on to the inner case, aligning properly so that the five cover screw holes are centered in the five gasket holes.
- Fit the outer cover to the inner case, making sure the shafts on the ratchet assembly fit into the knuckle pin roller and the bushing in the inner case.

