



## AGA MINI Transmission Seal Kit

Part #: AGA-MTS-K

MINI Part #: 83 30 2 452 307



### Problem:

MINI automatic transmission has a leaky right side axle seal, or radial shaft seal. The engine block prevents you from removing and replacing the transmission seal. This can be costly as you have to remove the transmission to replace the right side axle seal. This is a common problem amongst the Mini Cooper, Cooper S, Countryman, Paceman, 2 Door Hard top, and convertibles. The years affected by this are 2006-2014 models with the N12, N14, N16 and N18 engine installed.

### Solution:

Remove and replace the transmission seal correctly and easily with the AGA MINI Transmission Seal Kit in a fraction of the time. Using our tool you avoid removing the entire transmission in order to replace the transmission seal.

### Benefit:

Our tool allows you to do the job correctly in a fraction of the time. The customer will more than likely choose to do the repair because of the lower cost.



## MINI Transmission Seal Kit Instructions

We highly recommend watching the MINI Transmission Seal Kit Instructions video before performing the job. You can find the video on AGA's YouTube and website.

### Preparing for the job:

Remove two lower ball joint nuts (R Side), clamp on exhaust flex joint, lower dog bone engine mount, and axle carrier bolts. Push axle out and up (do not remove R Side axle from car). Finally remove axle carrier bracket from the engine block. Now you are ready to start the procedure.



#### Step 1:

Clean off excess oil then apply tape to the torque converter area, so no metal shavings can enter.

**Note: Be careful not to cover the seal area.**



#### Step 2:

Take the center mandrel (part # AGA-MTS-CM) and push into the differential.



#### Step 3:

Take the block cutter (part # AGA-MTS-SC) and put into any drill that has a 3/8 chuck. Insert the saw into the center of the mandrel. Apply light to medium pressure while rotating the drill. Push in until the saw stops. Clean off excess metal pieces.

**NOTE: If there is build up in the saw you can spray it with a little bit of oil.**



Step 4:  
Install the center punch (part # AGA-MTS-CP) into the slide hammer and tighten. Place center punch in center of the seal. Apply pressure with the slide hammer (part # AGA-MTS-SH) to make a small hole.

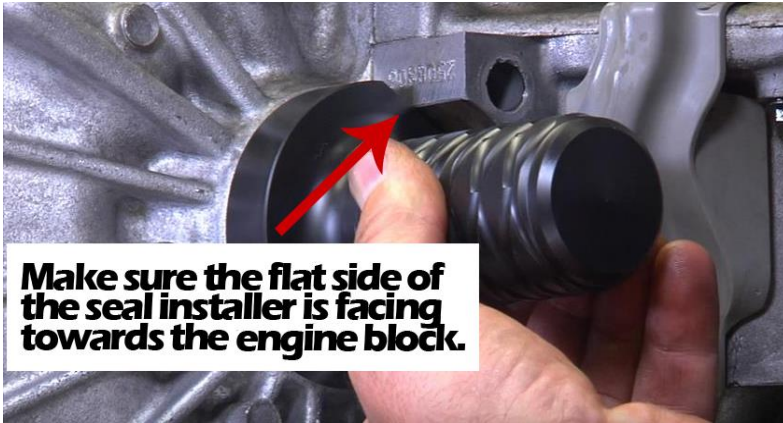


Step 5:  
Install remover into the slide hammer. Make sure to tighten the screw. Thread screw into center punch hole and gently slide hammer out the seal.



Step 6:  
Wipe the inner and out part of the shaft clean and install the seal by hand. Then reinstall the center mandrel into the differential.

**NOTE: Make sure the lip on the seal does not fold.**

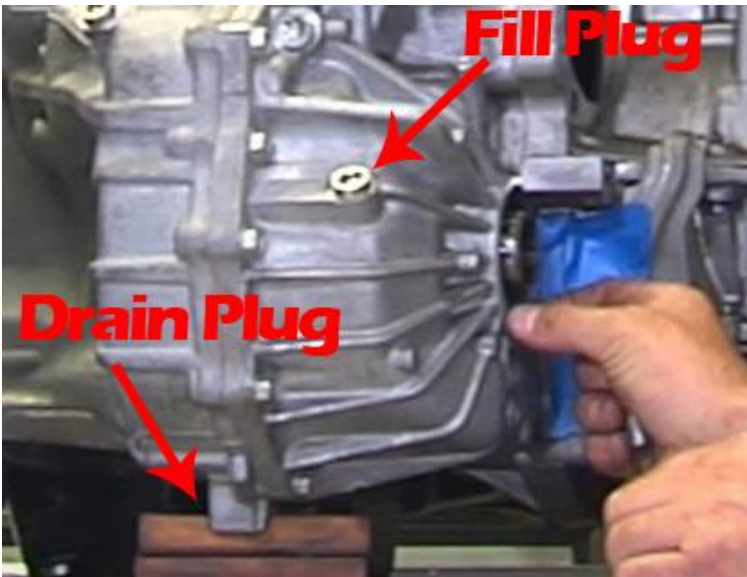


**Step 7:**

Take the seal installer and insert into the center mandrel. Then gently tap with hammer until the tool makes contact and the seal is seated.



**NOTE:** The seal installer has a machine step that ensures the seal is installed to the correct depth. The seal installer works on the right and left side of the transmission. Please remember to have the centering mandrel installed when using the tool.



**Step 8:**

Once the axle seal is replaced, you will now fill the differential fluid. Start by taking a 10mm Allen and remove the drain plug on the bottom. Then to fill the transmission use the MINI Plug (part # AGA-MP-T55) that fits on to the fuel plug included in the Mini Transmission Seal Kit.

**NOTE:** Be careful to not confuse the fuel plug with other ports in the transmission.