

# Installation Instructions

1. The Sportage was produced with two different types of automatic hublocks. For 1995-1997 the Sportage came with a cam type automatic hublock as shown in Figure 1. From 1998 it came with a vacuum type automatic hublock as shown in Figure 2.

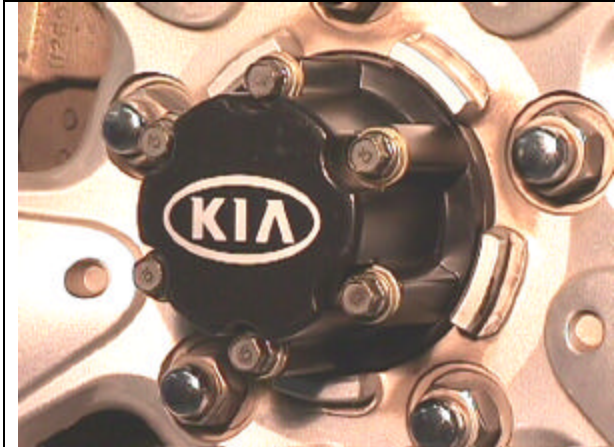


Figure 1 - Cam Type Auto Hublock

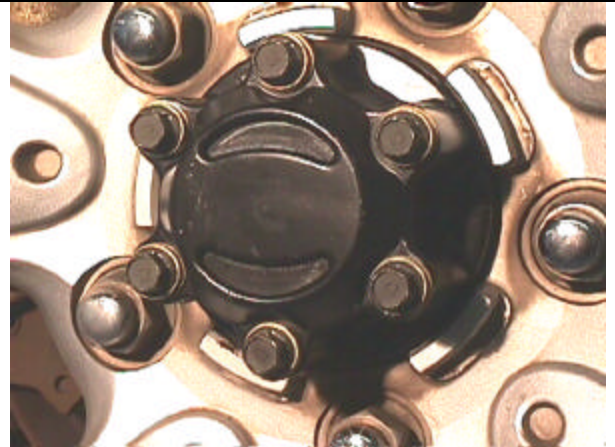


Figure 2 - Vacuum Type Auto Hublock

## Hublock Removal & Installation:

2. The front wheels will have to be lifted off the ground.
3. Remove the hublock assembly by removing the six mounting bolts and washers.

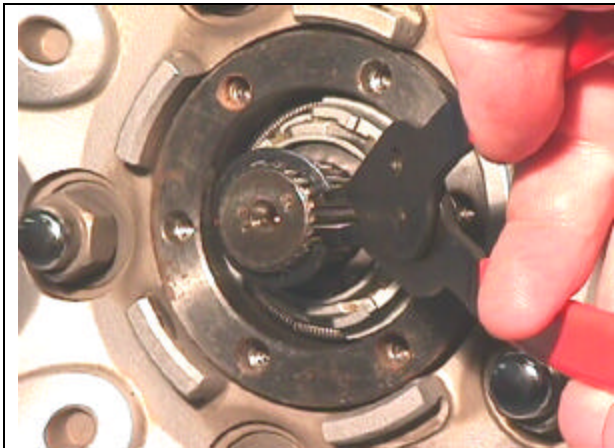


Figure 3

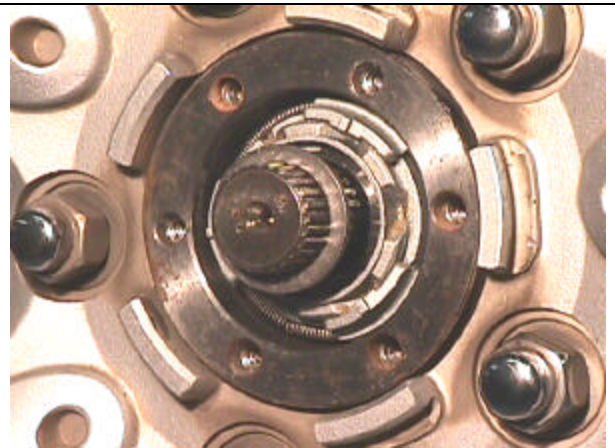


Figure 4

4. Remove the snap-ring, and thrust washer from the axle shaft as shown in Figures 3 and 4.

## Installation Instructions

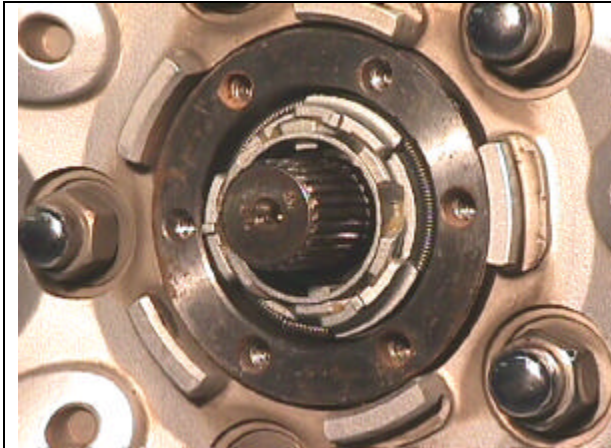


Figure 5

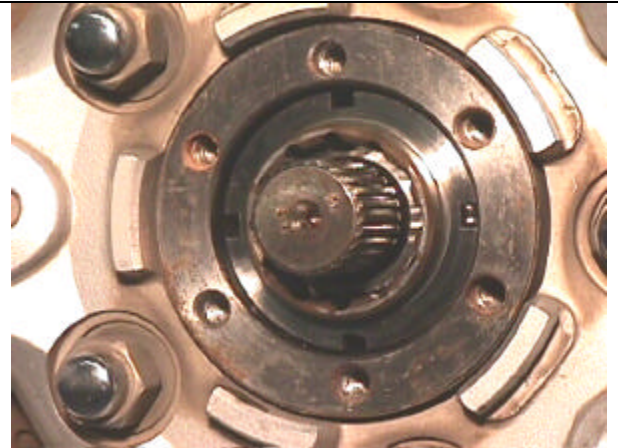


Figure 6

5. For the cam type automatic hublock, remove the camming assembly, and spindle nut as shown in Figures 5, and 6. **Do not reuse with new auto hublock.**

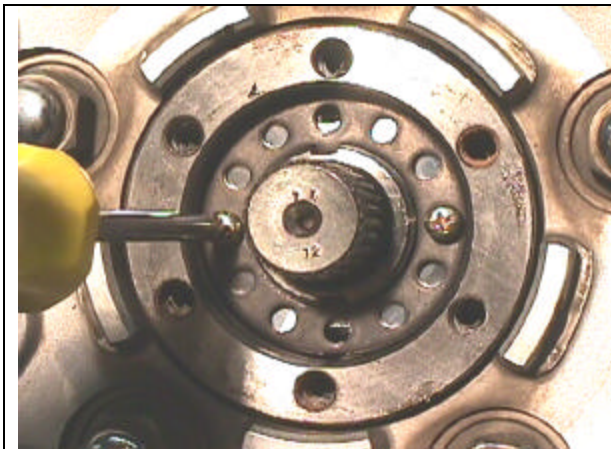


Figure 7

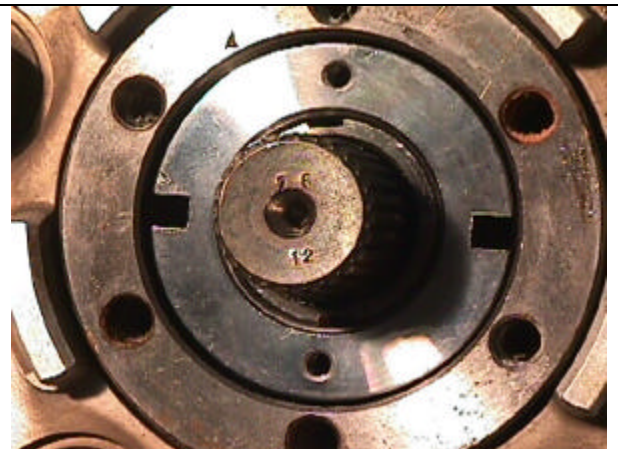


Figure 8

6. For the vacuum type automatic hublock, remove the two (2) screws, set plate, and spindle nut as shown in Figures 7 & 8.



## Installation Instructions



Figure 9



Figure 10

7. Install the new spindle nut, as shown in Figure 9. **Do not use the old spindle nut. Using the old spindle nut will cause the camming assembly to be installed incorrectly.** Rotate the wheel and spindle nut, until the spindle nut is finger tight. Torque the spindle nut 4 to 8 kg-cm (3.5-7.0 lb-in).



Figure 11



Figure 12

8. **This step is very important. The locknut key must be installed properly. Improper installation of the locknut key could cause the spindle nut to loosen, causing the wheel to loosen as well.** The locknut key is illustrated in Figure 10. Align the slot in the spindle nut with the keyway on the spindle. Slide the locknut key until it is flush with the face of the spindle nut as shown in Figures 11 and 12.

## Installation Instructions

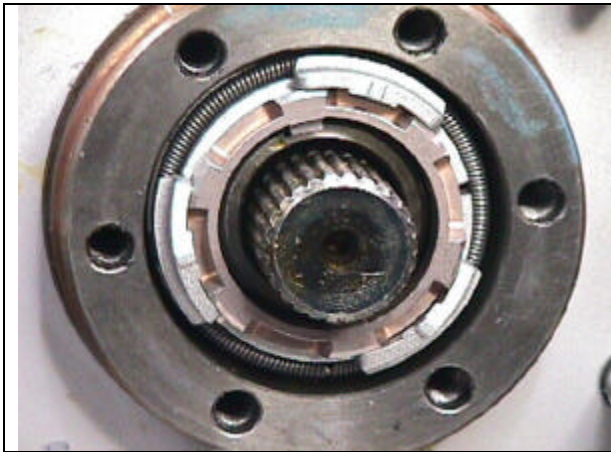


Figure 13

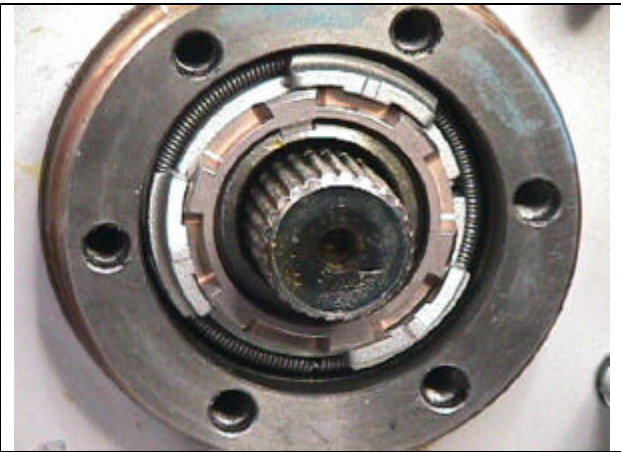


Figure 14

9. Install the camming assembly by aligning the two (2) keys on the camming assembly with the two (2) key slots on the spindle as shown in Figure 13. Tap the camming assembly onto the spindle nut as shown in Figure 14.

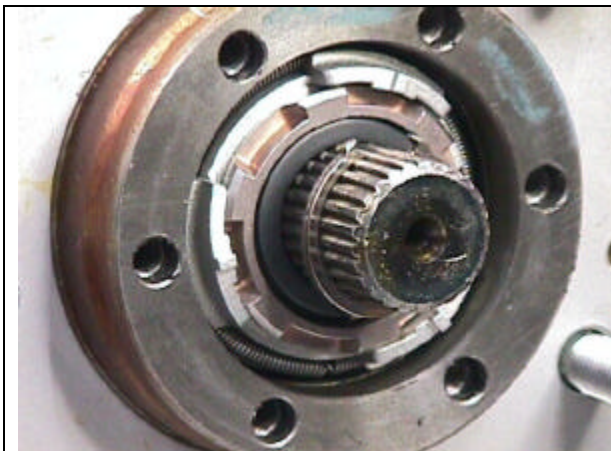


Figure 15

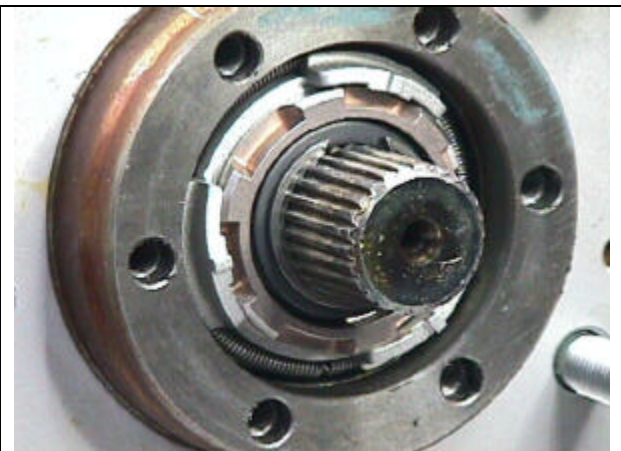


Figure 16

10. Install the axle shaft thrust washer, and snap ring onto the axle shaft as shown in Figure 15 and 16. Be sure the snap ring is properly seated in the groove of the axle shaft.

11. Install the hublock assembly onto the wheel end. Gently push the hublock into position and align the mounting holes of the hublock with the wheel end. Install the mounting bolts, flat washers, and lockwashers. Torque the mounting bolts 3.0 to 3.5 kg-m (21-25 lb-ft).