

Cajas de cambio automáticas

MANUAL KIT MANTENIMIENTO

INSTRUCCIONES

K411



ATF :

OEM – Toyota CVTF TC

FLUIDMATIC – ATFCVT.1

FUCHS – TITAN ATF CVT FLEX

CAPACIDAD DE LLENADO EN SECO: 6,5 LITROS APROX.

CAPACIDAD DE LLENADO MANTENIMIENTO: 2.6 – 3.4 LITROS APROX.

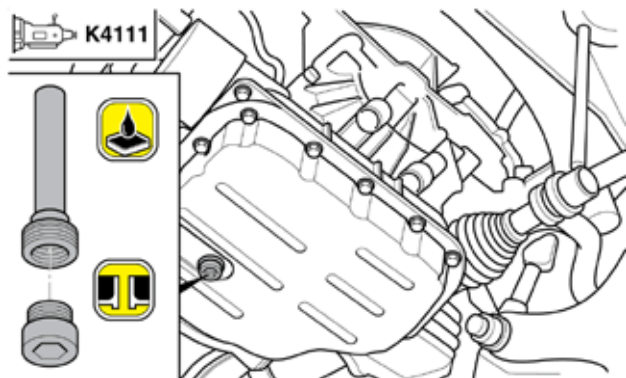


Posibilidad de daños materiales por descarga electrostática (ESD), no toque los contactos, lleve ropa de trabajo que desvíe las cargas eléctricas y tenga en cuenta la protección contra ESD

1

Localizar el tapon de vacio, quitar e introducir la misma llave en el agujero para extraer el tubo de nivel y así proceder a vaciar el ATF usado.





2

Sacar los tornillos y retirar el cárter.

3

Localizar y desmontar el filtro.



4

Sustituir el filtro antiguo por el nuevo.

5

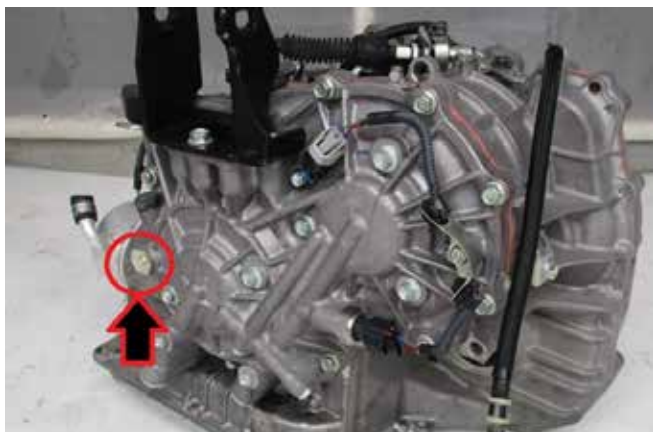
Limpiar el cárter y sustituir los imanes, los tornillos y la junta del cárter nuevos.

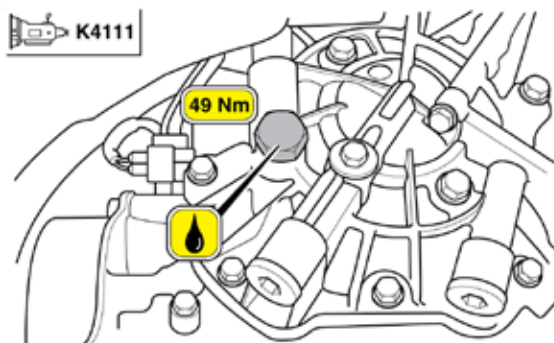


6
7

Volver a montar el cárter de nuevo y el tubo de nivel (par de apriete 0.8Nm).

Localizar el tapón de llenado en la parte trasera del cambio.





8

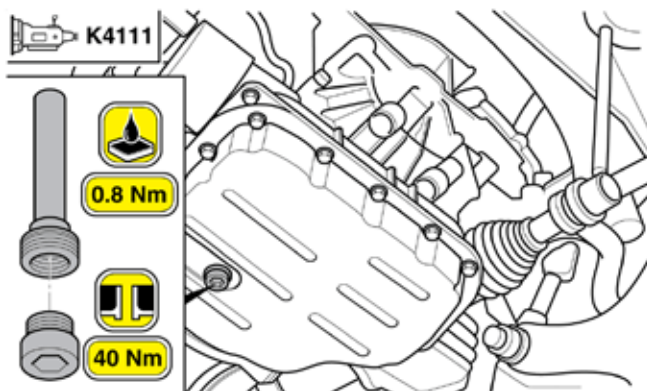
Añadir atf a través del tapón de llenado hasta que salga un hilo fino de aceite o rebose por el tubo de nivel.

9

Arrancar el motor y sin pararlo continuar con el llenado hasta que salga un hilo fino de aceite. La temperatura de funcionamiento no ha de superar los 40°.

10

Volver a colocar el tapón de vaciado (par de apriete 40nm) y el tapón de llenado (par de apriete 49Nm).



11

Comprobar que no existan fugas.

BUEN TRABAJO!

PASOS VERIFICACION DE NIVEL

1. El vehículo debe estar en posición neutra o con el freno de emergencia puesto sobre una superficie nivelada.
2. Conectar la máquina de diagnóstico para controlar que la temperatura del aceite no supere los 40/45 grados centígrados.
3. Arrancar el motor y con el freno pisado mover la palanca pasando por todas las posiciones P-R-N-D y esperar unos 5-10 segundos en cada una. Repetir la operación acelerando suavemente hasta las 2.000 rpm en cada posición.
4. Comprobar que sea correcto el nivel
5. Borrar todos los códigos de avería y probar el vehículo en carretera
6. Comprobar que no existan fugas

SUSTITUCIÓN ATF CON MÁQUINA

En el caso de realizar el mantenimiento completo del atf con máquina*, hay que seguir estos pasos una vez sustituidos el filtro y las juntas:

- buscar en el cambio las tuberías de refrigeración (entrada y salida)
- colocar los racords adecuados
- acoplar las mangueras de la máquina en la posición correcta de entrada y salida en el cambio
- encender la máquina para añadir el ATF
- arrancar el vehículo para expulsar el aceite viejo del cambio
- seguir los pasos de llenado y comprobar el nivel

*Es recomendable seguir las instrucciones de cada tipo de máquina

RECOMENDACIONES

MANTENIMIENTO CAJAS DE CAMBIO AUTOMÁTICAS

Se recomienda llevar a cabo un cambio de aceite regular sobre los **60.000 km**, dependiendo de la zona geográfica o bien cada 4 años en función del grado de uso.

¿Por qué?

El aceite envejece a causa del uso, del cambio de temperatura y de procesos químicos.

El aceite usado produce abrasión de los elementos internos de la caja de cambios automática.

Los cambios de aceite realizados a intervalos regulares de tiempo es lo único que garantiza el máximo confort en el cambio de marchas y un buen funcionamiento del mismo.



the 1990s, the number of people in the world who are under 15 years of age is expected to increase by 1.5 billion.

As the world's population grows, the demand for food and other resources will increase. The world's population is expected to reach 9 billion by the year 2050. This means that there will be 9 billion people competing for the same resources that we have today. This is a huge increase in the number of people who will be competing for the same resources.

The world's population is also growing older. The number of people aged 65 and over is expected to increase from 500 million in 1990 to 1.5 billion in 2050. This means that there will be 1.5 billion people aged 65 and over by the year 2050. This is a huge increase in the number of people who will be aged 65 and over.

The world's population is also becoming more diverse. The number of people from different ethnic groups is expected to increase from 1.5 billion in 1990 to 3.5 billion in 2050. This means that there will be 3.5 billion people from different ethnic groups by the year 2050. This is a huge increase in the number of people from different ethnic groups.

The world's population is also becoming more mobile. The number of people who are mobile is expected to increase from 1.5 billion in 1990 to 3.5 billion in 2050. This means that there will be 3.5 billion people who are mobile by the year 2050. This is a huge increase in the number of people who are mobile.

The world's population is also becoming more educated. The number of people who are educated is expected to increase from 1.5 billion in 1990 to 3.5 billion in 2050. This means that there will be 3.5 billion people who are educated by the year 2050. This is a huge increase in the number of people who are educated.

The world's population is also becoming more affluent. The number of people who are affluent is expected to increase from 1.5 billion in 1990 to 3.5 billion in 2050. This means that there will be 3.5 billion people who are affluent by the year 2050. This is a huge increase in the number of people who are affluent.

The world's population is also becoming more developed. The number of people who are developed is expected to increase from 1.5 billion in 1990 to 3.5 billion in 2050. This means that there will be 3.5 billion people who are developed by the year 2050. This is a huge increase in the number of people who are developed.

The world's population is also becoming more urban. The number of people who are urban is expected to increase from 1.5 billion in 1990 to 3.5 billion in 2050. This means that there will be 3.5 billion people who are urban by the year 2050. This is a huge increase in the number of people who are urban.

The world's population is also becoming more industrial. The number of people who are industrial is expected to increase from 1.5 billion in 1990 to 3.5 billion in 2050. This means that there will be 3.5 billion people who are industrial by the year 2050. This is a huge increase in the number of people who are industrial.

The world's population is also becoming more service-oriented. The number of people who are service-oriented is expected to increase from 1.5 billion in 1990 to 3.5 billion in 2050. This means that there will be 3.5 billion people who are service-oriented by the year 2050. This is a huge increase in the number of people who are service-oriented.

The world's population is also becoming more information-oriented. The number of people who are information-oriented is expected to increase from 1.5 billion in 1990 to 3.5 billion in 2050. This means that there will be 3.5 billion people who are information-oriented by the year 2050. This is a huge increase in the number of people who are information-oriented.

The world's population is also becoming more knowledge-oriented. The number of people who are knowledge-oriented is expected to increase from 1.5 billion in 1990 to 3.5 billion in 2050. This means that there will be 3.5 billion people who are knowledge-oriented by the year 2050. This is a huge increase in the number of people who are knowledge-oriented.

The world's population is also becoming more creative. The number of people who are creative is expected to increase from 1.5 billion in 1990 to 3.5 billion in 2050. This means that there will be 3.5 billion people who are creative by the year 2050. This is a huge increase in the number of people who are creative.

The world's population is also becoming more innovative. The number of people who are innovative is expected to increase from 1.5 billion in 1990 to 3.5 billion in 2050. This means that there will be 3.5 billion people who are innovative by the year 2050. This is a huge increase in the number of people who are innovative.

The world's population is also becoming more entrepreneurial. The number of people who are entrepreneurial is expected to increase from 1.5 billion in 1990 to 3.5 billion in 2050. This means that there will be 3.5 billion people who are entrepreneurial by the year 2050. This is a huge increase in the number of people who are entrepreneurial.