

Instructions

C1/K1 Clutch Control Valve Kit

Part No. 15741-25K

- Valve
- Sleeve
- Selective Yellow or Red • Springs (2) See Chart Figure 2, page 2

NOTE: Fits C1 clutch control bore for TF-80SC & TF-81SC. Fits K1 clutch control bore for TF-60SN, 09G, 09K, 09M and Mini 6F21WA. Also fits Volvo (AM6), Opel (AF40), Saab (AF40/6), Ford (AF21) and Mazda (AW6A-EL).

Tool Kit Part No. F-15741-TL25

- Reamer Jig
- Guide Pin
- Reamer

NOTE: Sonnax "F-Tool" kits designed to service a specific bore require the VB-FIX, a self-aligning valve body reaming fixture. More information and instructions can be found online at www.sonnax.com.

Mini 6F21WA; VW/Audi 09G, 09K, 09M TF-81SC TF-60SN Front Cover Front Cover TF-80SC Front Casting Sleeve Yellow Spring

Aisin AW TF-60SN, TF-80SC, TF-81SC;

Red

Spring

1. Disassembly

Tool Kit

- a. Take and record a reference dimension from the end of the spring adjuster to the casting as shown in (Figure 1). This measurement will be required when assembling the new valve assembly.
- b. Remove the OE retaining pin, solenoid, valve, spring, adjuster clip and the adjuster.
- c. Discard OE valve and spring.

2. Bore Reaming

Ream C1/K1 clutch control valve bore (for reaming instructions/reamer care, please visit www.sonnax.com). Sonnax reaming tool kit F-15741-TL25 and VB-FIX are required for this operation.

3. Installation & Assembly

- a. After reaming, remove OE retaining clip and adjustment plug from the bore for a thorough cleaning.
- Location shown may not match your

Valve

Figure 1

particular application; picture is to illustrate measuring procedure only.

b. Reinstall OE spring adjuster and adjust to the reference dimension noted in disassembly procedure, then reinstall OE retaining clip.

NOTE: Component apply pressure leakage past the adjuster threads can be reduced by using an ATF compatible thread sealant, such as Permatex[®] 24163 surface prep and 24206 Threadlocker, on the spring adjuster. Compound must not create a permanent set.





TRANSMISSION PARTS

C1/K1 CLUTCH CONTROL VALVE KIT 15741-25K, F-15741-TL25

Instructions

Valve Body

Casting

Sonnax Sleeve Figure 3

3. Installation & Assembly (continued)

- c. Select correct spring for the application (**Figure 2**). Install Sonnax spring, ensuring spring I.D. goes over spring adjuster nub and spring is secured in spring pocket during installation.
- d. Install Sonnax valve/sleeve assembly with the O.D. groove end of the sleeve entering the valve body bore first. A deep well socket can be used for pressing the sleeve into place.
- e. Reinstall OE solenoid and retaining pin.

4. Fit Verification

Ensure the sleeve ports align correctly with the valve body ports (**Figures 3** and **4**). If significant misalignment is noted (= .015"), shimming or sanding of components may be necessary.

NOTE: Individual bore components vary dependent upon application; tuning of sleeve slot to casting port location is what is critical.

5. Final Testing

Vacuum testing at the port(s) indicated holds the recommended minimum 18 in-Hg (**Figure 5**).

	Figure 2
Spring Color	Unit
Red	TF-60SN, 6F21WA, 09G, 09K, 09M
Yellow	TF-80SC, TF-81SC (also fits: Volvo AM6, Opel AF40, Saab AF40/6, Ford AF21, Mazda AW6A-EL)







Sonnax Valve

Part Misalignment - Sleeve too far Inboard



- 1. This condition can occur due to reamer not traveling deep enough into the bore.
- 2. Casting variance and "valley-flashing" also can short-stop reamer travel.
- 3. To correct this and move sleeve to the right, remove material from the casting face and valley. A Dremel® 194 cutter works well.
- 4. In some situations, remove material from edge stop on sleeve.