

SK® A750-WTA With Tools. Corrects/Prevents/Reduces

Shuttle, Bind-up or Flair on 2-3 Shift, Slips with throttle in 3rd and/or 4th, TCC Codes & Rough KD at Highway Speeds due to slow TCC release.

1 Kit Repairs 1 of 5 VB Types!

Fits: Toyota: A750E/F 5 speed
AB60E/F 6 speed
Lexus: A760/761 E/H 6 speed
A960E 6 speed



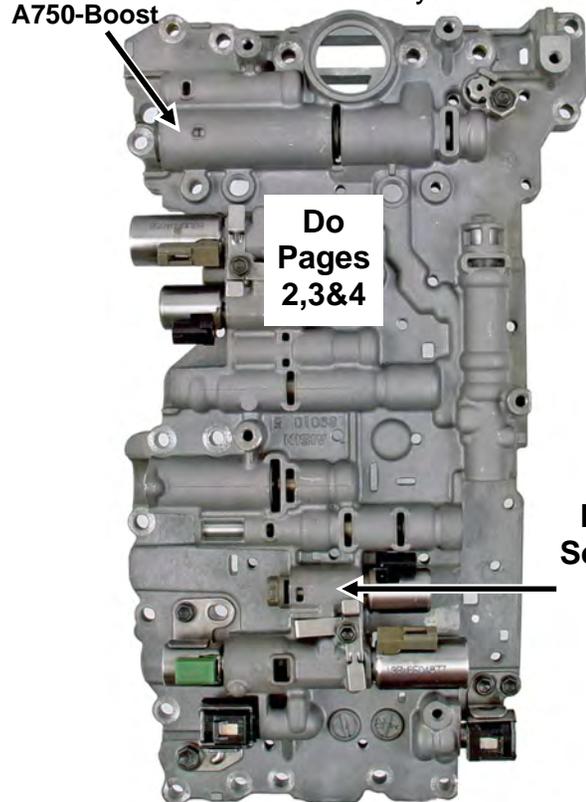
Identify Valve Body First!

Follow Pages that **MATCH** your VB Type.

A750

Boost Worn?
Order P/N
A750-Boost

Has **NO** Lower Solenoid Body



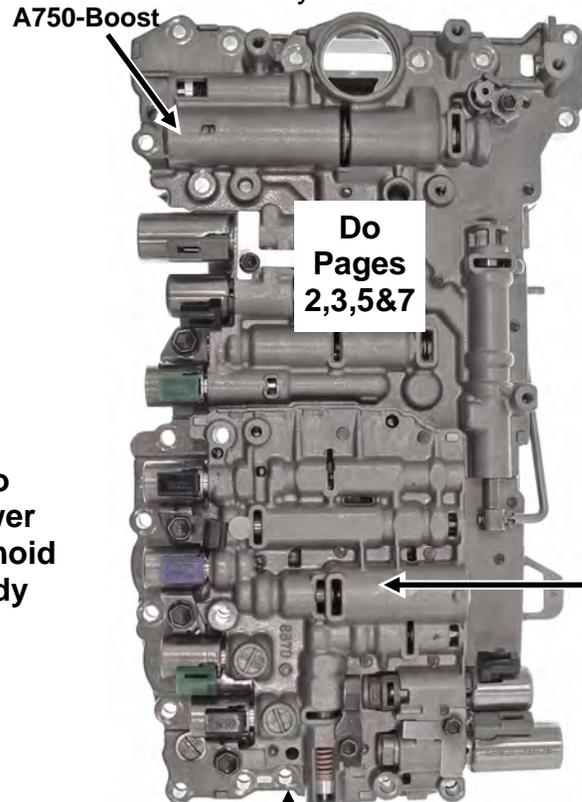
Do Pages 2,3&4

No Lower Solenoid Body

A760, A761 & AB60

Boost Worn?
Order P/N
A750-Boost

Has Lower Solenoid Body & Bolt Hole



Do Pages 2,3,5&7

Lower Solenoid Body

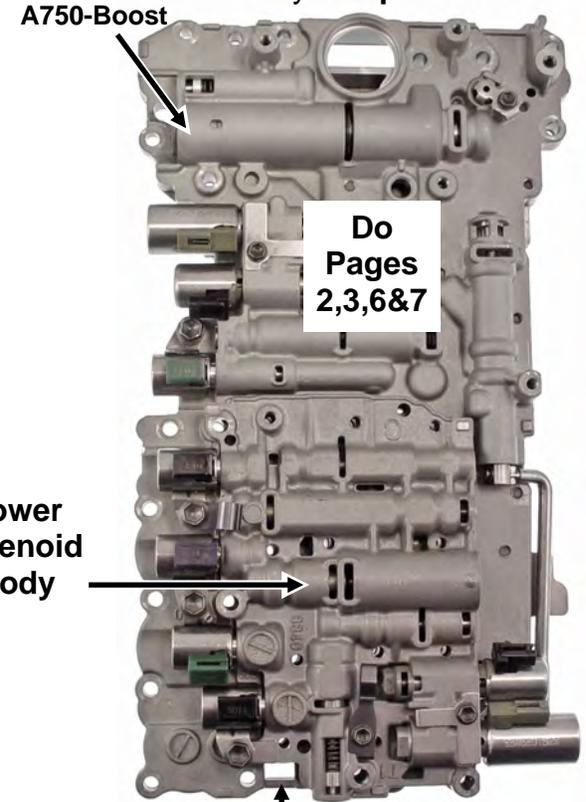
Bolt Hole



A960

Boost Worn?
Order P/N
A750-Boost

Has Lower Solenoid Body & Square



Do Pages 2,3,6&7

Square



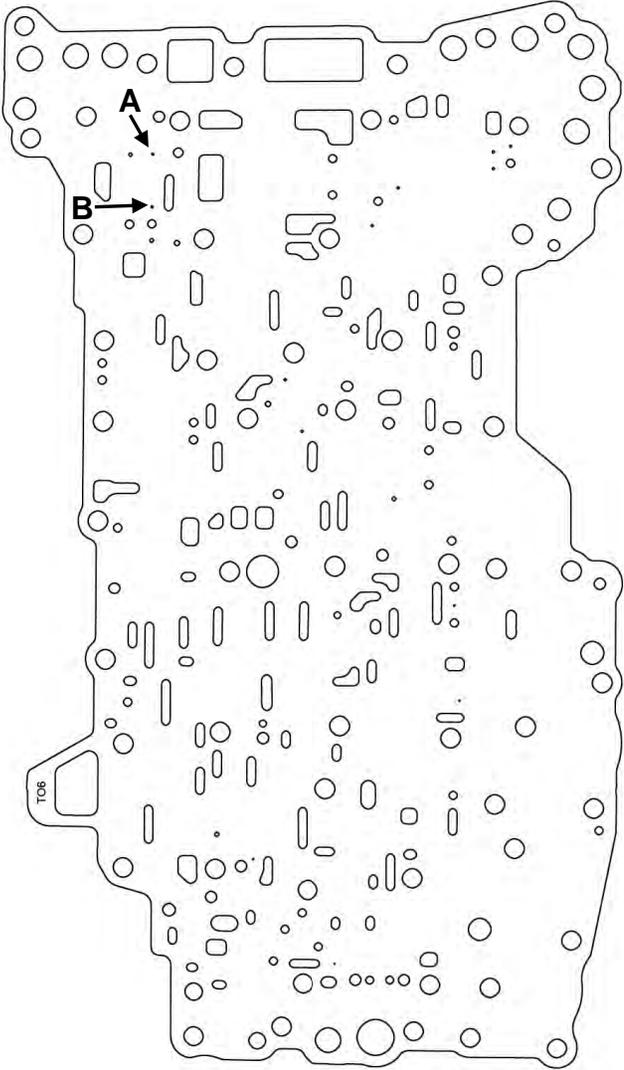
Warning! Record ALL checkball locations during disassembly. IF ANY CHECKBALL LOCATIONS ARE DIFFERENT from what we show ALWAYS re-install check ball's as you found them! Shown in this kit are the typical locations that we are currently aware of. There may be other variations.

Main Plate Updates (FOR ALL MODELS)

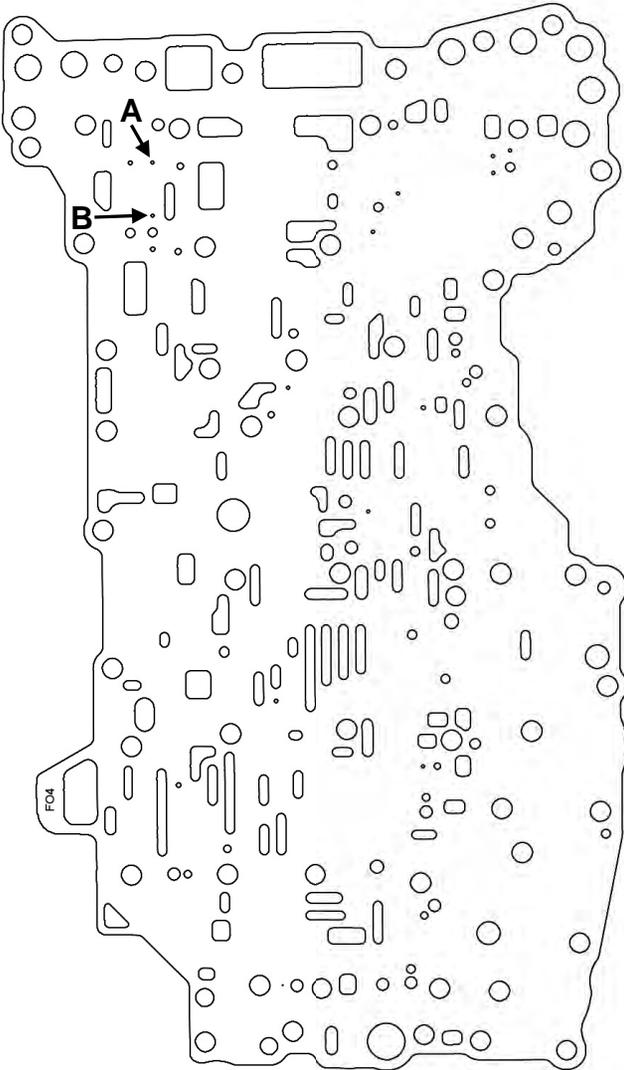
Step 1

Enlarge Hole "A" & "B" with the .055 drill provided.

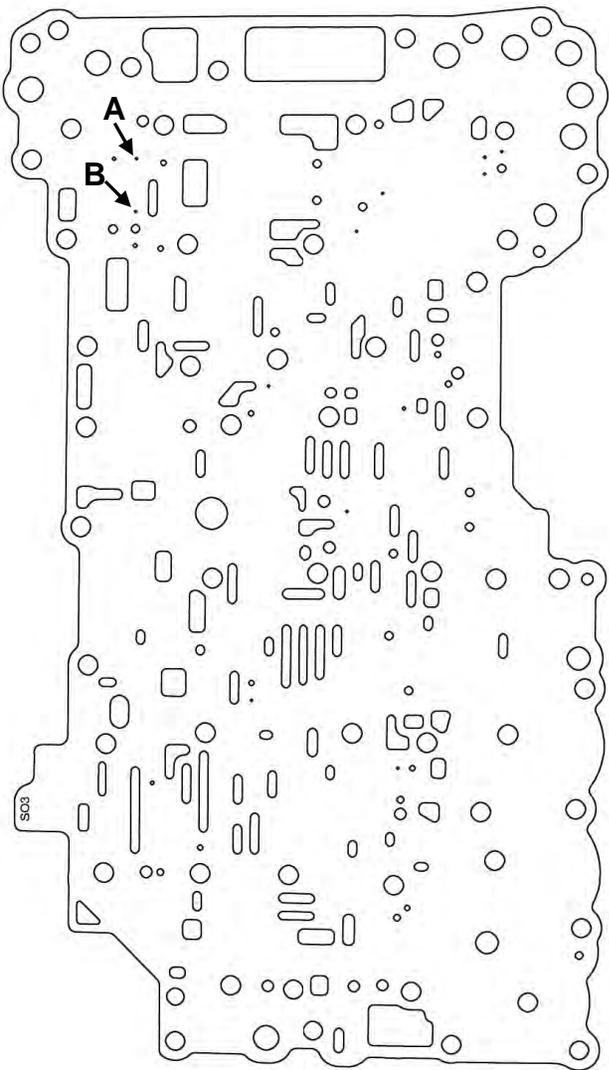
A750



A760, A761 & AB60



A960



TCC Relay Valve Repair

All VB's Section

(Do this page for all VB's)

Clean & Lube Tools Before Each Use.

Step 1.

Remove & discard original **inner** TCC Relay Valve. **SAVE** the spring, outer valve, end plug and retainer for re-use.

Insert large drill bit into either end of the "No-Step" drill guide and attach to a **slow speed drill**. Insert guide and drill bit into bore. Slide guide in until it bottoms out. Now drill **slowly** and count the 4 walls you will need to drill through.

Stop after going through the 4th wall!

If the drill guide turns during drilling it's ok. Remove tools & blow out the chips.

Step 2.

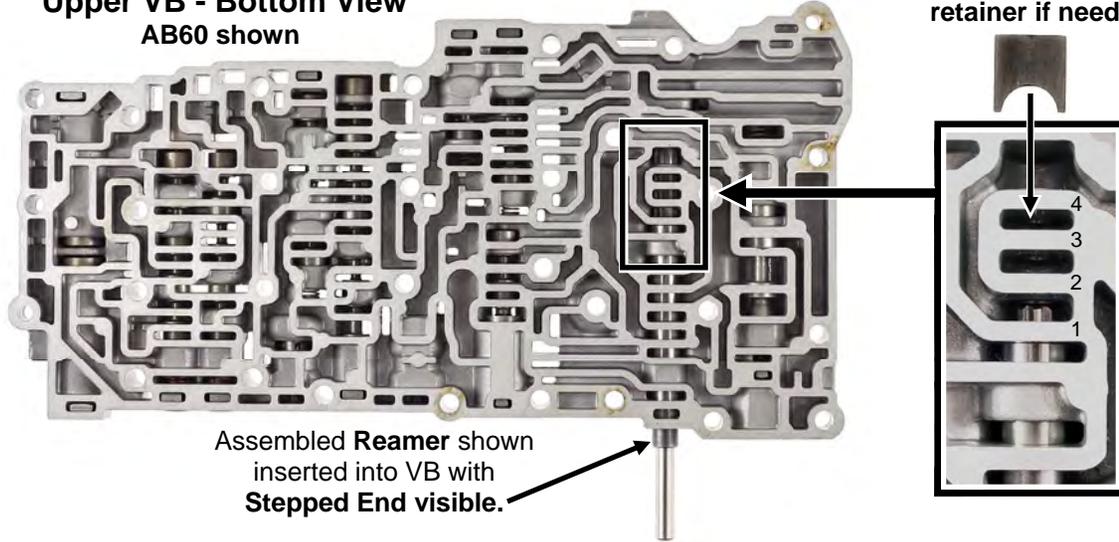
Insert reamer shaft into large end of guide bushing. (The side without the step.) Insert into bore until bushing bottoms out. Now **LIGHTLY** hold stepped end of guide bushing with locking pliers to prevent rotation of guide bushing. Turn the reamer **at a slow speed** with drill motor.

Use very light steady pressure while reaming, do not use force! You can use ATF or Motor oil to lube reamer but cutting oil works best.

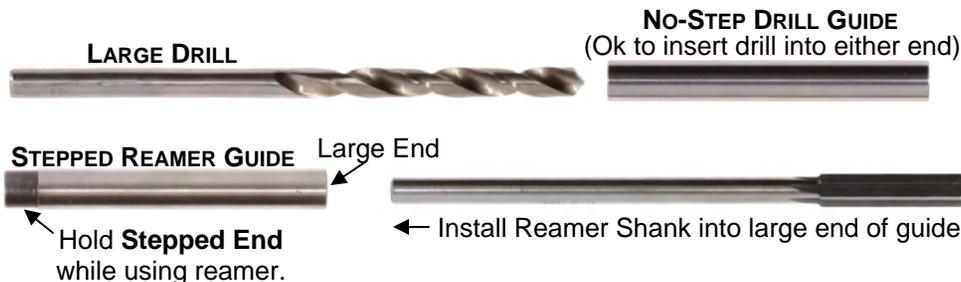
The slower you do this step the better! Stop drill motor after reamer goes thru 4th wall. Flip valve body over and blow out the chips. Rinse bore clean.

New Bushing Retainer must install just below VB surface in this location. Grind top of retainer if needed.

Upper VB - Bottom View
AB60 shown

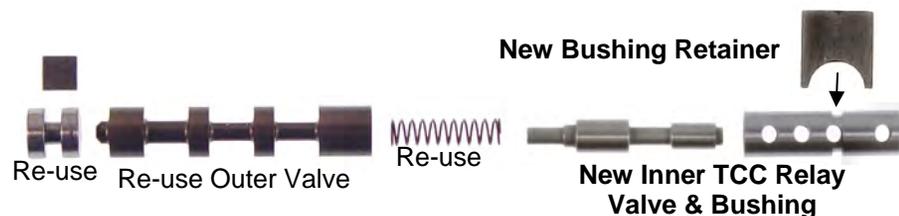


Assembled Reamer shown inserted into VB with Stepped End visible.



Tools ready for use.

Step 3. Clean & Install **NEW Inner TCC Relay Valve** into **New Bushing** and insert into bore. Install **New Bushing Retainer**. Install original spring, outer valve, end plug & original retainer.



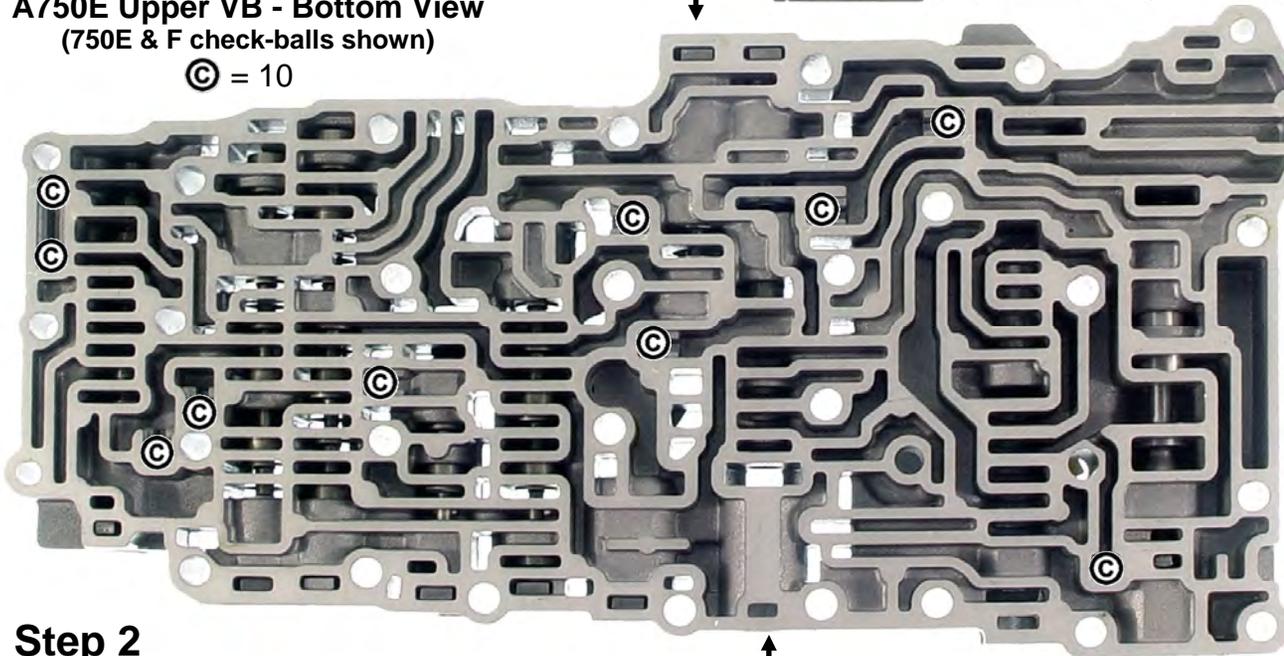
A750 VB Section

Warning! Record ALL checkball locations during disassembly. IF ANY CHECKBALL LOCATIONS ARE DIFFERENT from what we show ALWAYS re-install check ball's exactly as you found them!

Shown in this kit are the typical locations.
There may be other variations.

A750E Upper VB - Bottom View
(750E & F check-balls shown)

© = 10



Step 1

Remove & Discard Original Sol Reg Valve, Spring & Plug. Install New Bushing, Valve, Orange Spring & New End Plug. Re-use original retainer.



A750 Upper VB - Top
(750 E&F check-balls shown)

© = 8

Step 2

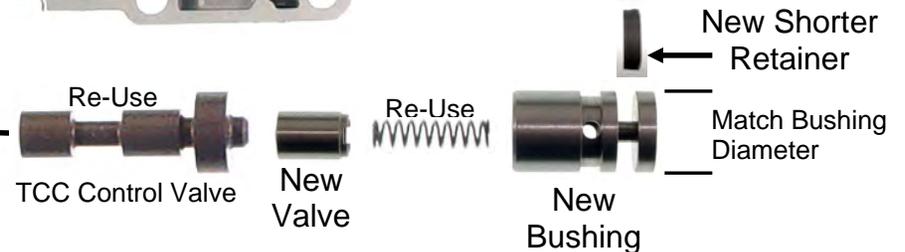
Remove TCC Control Valve & clean.

Match NEW Bushing Diameter to your original Bushing diameter. Then discard **old** Bushing, Inner Valve & Retainer.

Clean & re-install original TCC Control Valve into VB. Install **New** Inner Valve with **original** spring into **New** Bushing and insert into VB as shown.

Install **New Shorter Retainer** to **prevent** VB damage.

ALL Retainers **MUST NOT** extend up above VB surface when installed!

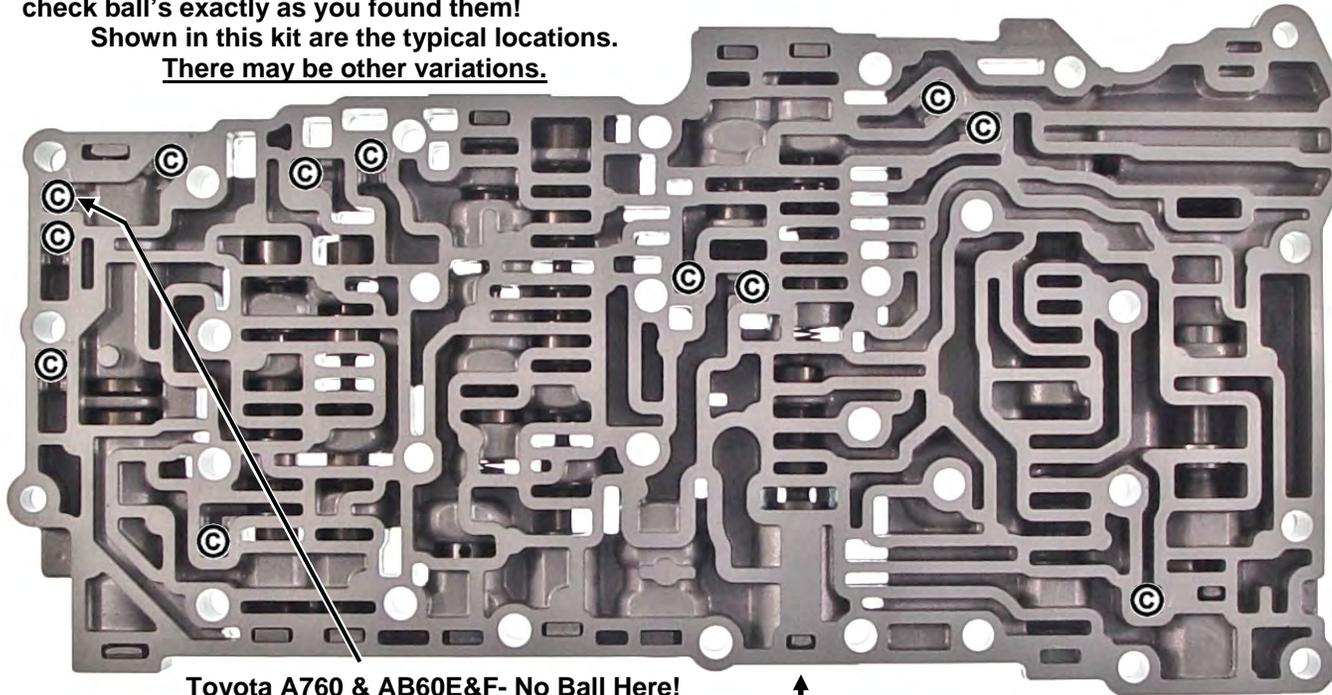


A760, A761 & AB60 VB Section

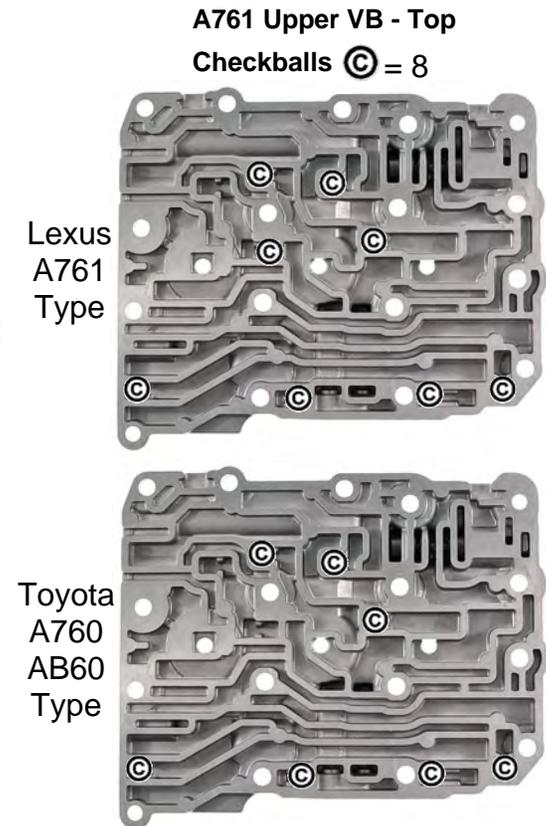
Warning! Record ALL checkball locations during disassembly. IF ANY CHECKBALL LOCATIONS ARE DIFFERENT from what we show ALWAYS re-install check ball's exactly as you found them!

Shown in this kit are the typical locations.
There may be other variations.

Reinstall all check balls as you found them. Typical models and locations are shown.



Toyota A760 & AB60E&F- No Ball Here!
 Lexus A761E- Install this Ball



A761 Upper VB - Top
 Checkballs © = 8

Lexus A761 Type

Toyota A760 AB60 Type

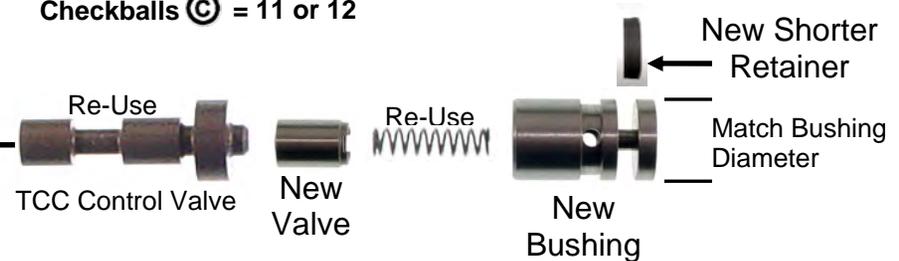
AB60 Upper VB - Top
 Checkballs © = 7

A761 Upper VB - Bottom
 Checkballs © = 11 or 12

Step 1

Remove TCC Control Valve & clean.
Match NEW Bushing Diameter to your original Bushing diameter. Then discard **old** Bushing, Inner Valve & Retainer.
 Clean & re-install original TCC Control Valve into VB.
 Install **New** Inner Valve with **original** spring into **New** Bushing and insert into VB as shown.
 Install **New Shorter Retainer** to **prevent** VB damage.

ALL Retainers **MUST NOT** extend up above VB surface when installed!



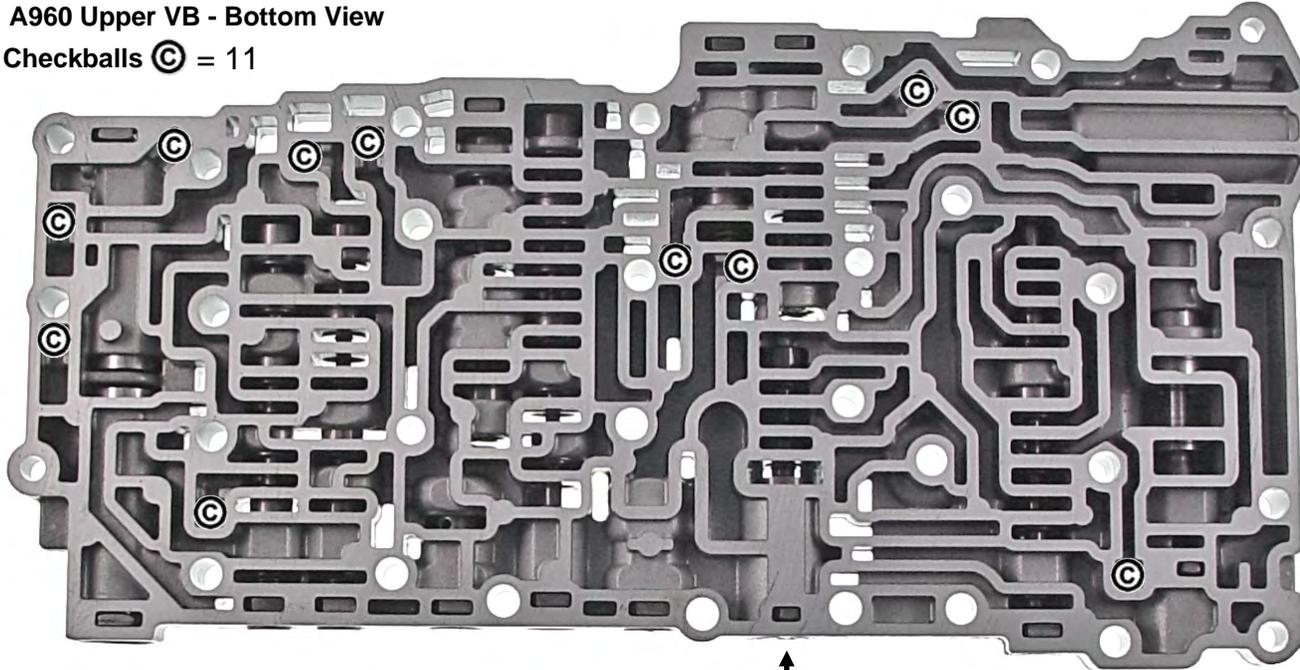
A960 VB Section

Warning! Record ALL checkball locations during disassembly. IF ANY CHECKBALL LOCATIONS ARE DIFFERENT from what we show ALWAYS re-install check ball's exactly as you found them!

Shown in this kit are the typical locations.
There may be other variations.

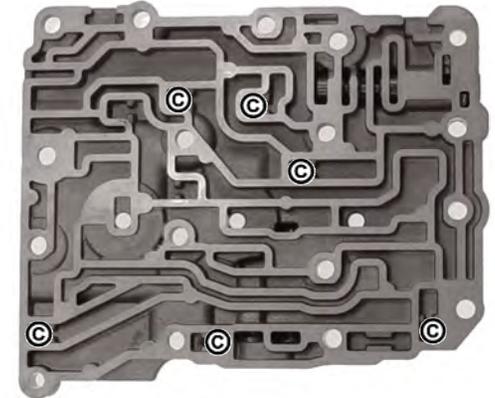
A960 Upper VB - Bottom View

Checkballs © = 11



A960 Upper VB - Top

Checkballs © = 6



Step 1

Remove TCC Control Valve & clean.

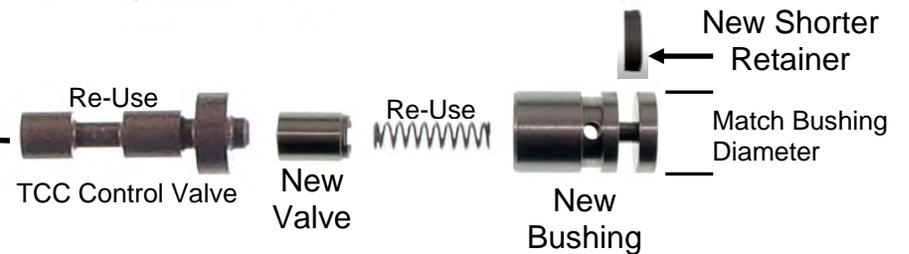
Match NEW Bushing Diameter to your original Bushing diameter. Then discard **old** Bushing, Inner Valve & Retainer.

Clean & re-install original TCC Control Valve into VB.

Install **New** Inner Valve with **original** spring into **New** Bushing and insert into VB as shown.

Install **New Shorter Retainer** to **prevent** VB damage.

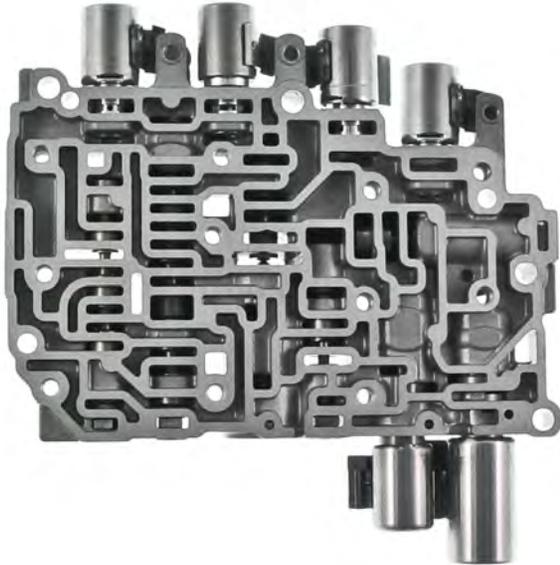
ALL Retainers **MUST NOT** extend up above VB surface when installed!



A760, A761, AB60 & A960 Lower Solenoid Body Section

ALL Retainers **MUST NOT** extend up above VB surface when installed!

A960 Lower Solenoid Body

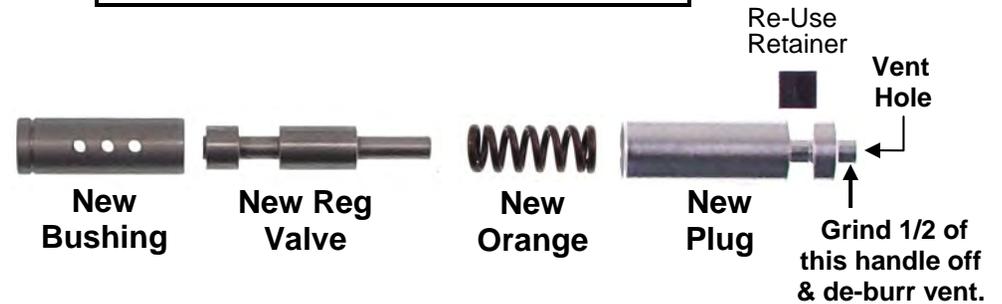


Step 1

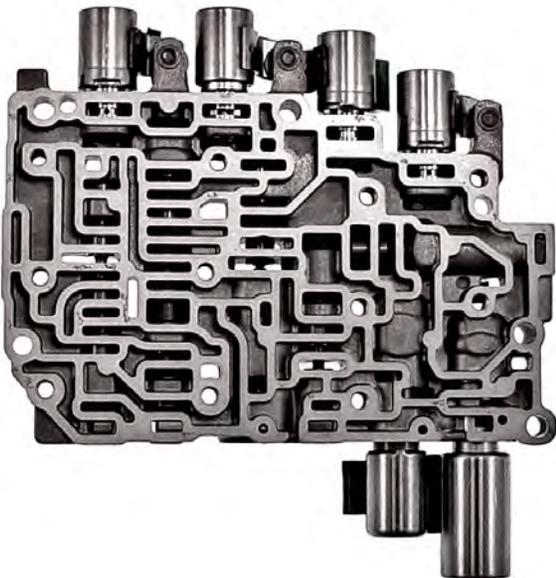
Remove & Discard Original Sol Reg Valve, Spring & Plug. Install New Bushing, Valve, Orange Spring & New End Plug. Re-use original retainer.



Remove & Discard



A760, A761 & AB60 Lower Solenoid Body



Heads Up! We have had reports that on SOME models the handle of the new plug MAY touch the pan or case. Therefore, on A760, A761 & A960 models grind the handle of the plug down about half way & de-burr vent before installing. Make sure the vent hole is open.

Have a great day!



Mr. Shift