

# SK® A650 (Patent Pending)

## Corrects/Prevents/Reduces

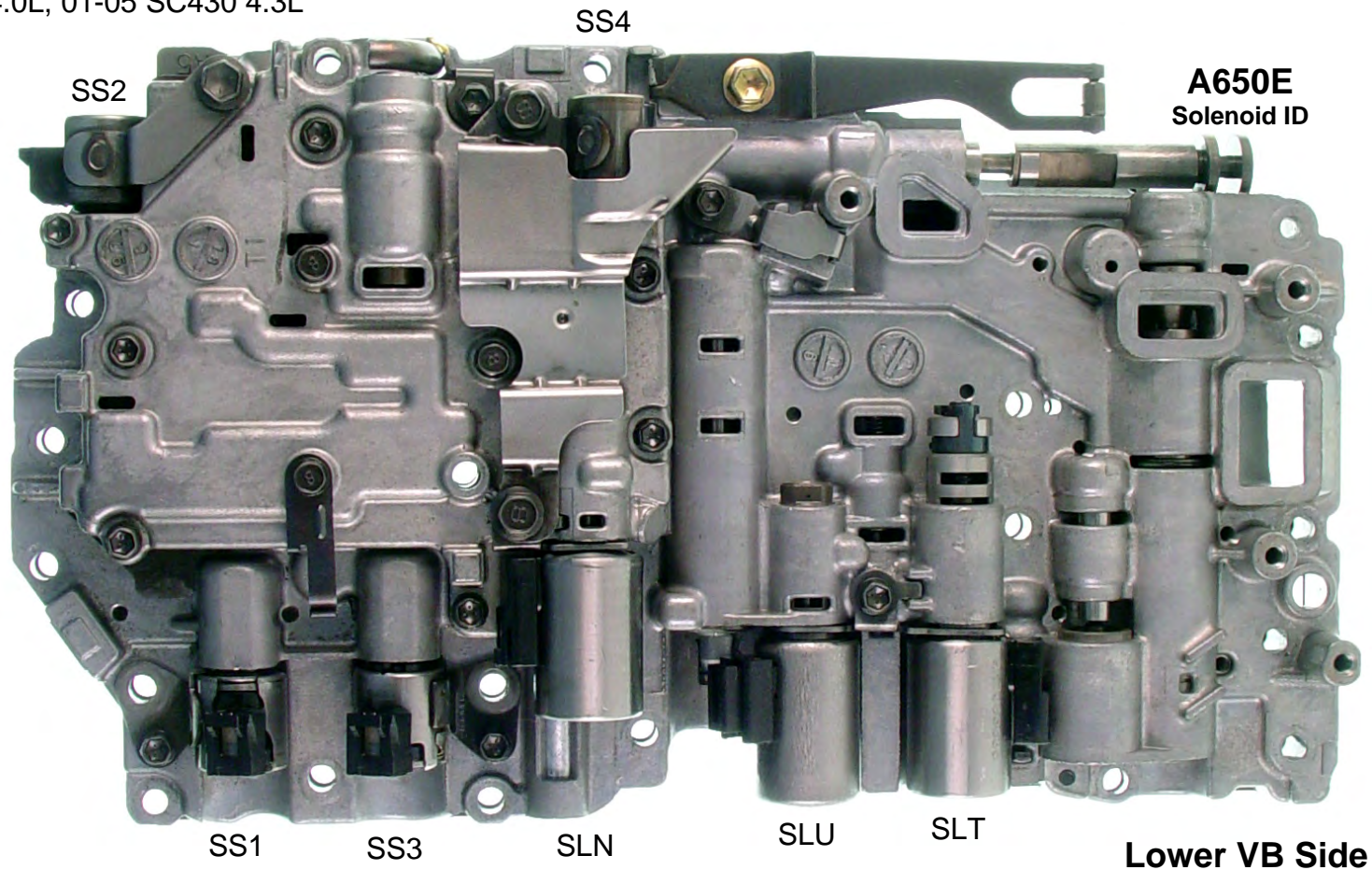
Shuttle, Bind-up or Flair on 2-3 Shift, Slips with throttle in 3rd and/or 4th, TCC Codes & Rough KD at Highway Speeds due to slow TCC release.

### Fits Lexus Models:

98-05 GS300 3.0L, 98-00GS400 4.0L, 01-05 GS430 4.3L

01-05 IS300 3.0L, 98-00 LS400 4.0L, 01-03 LS430 4.3L

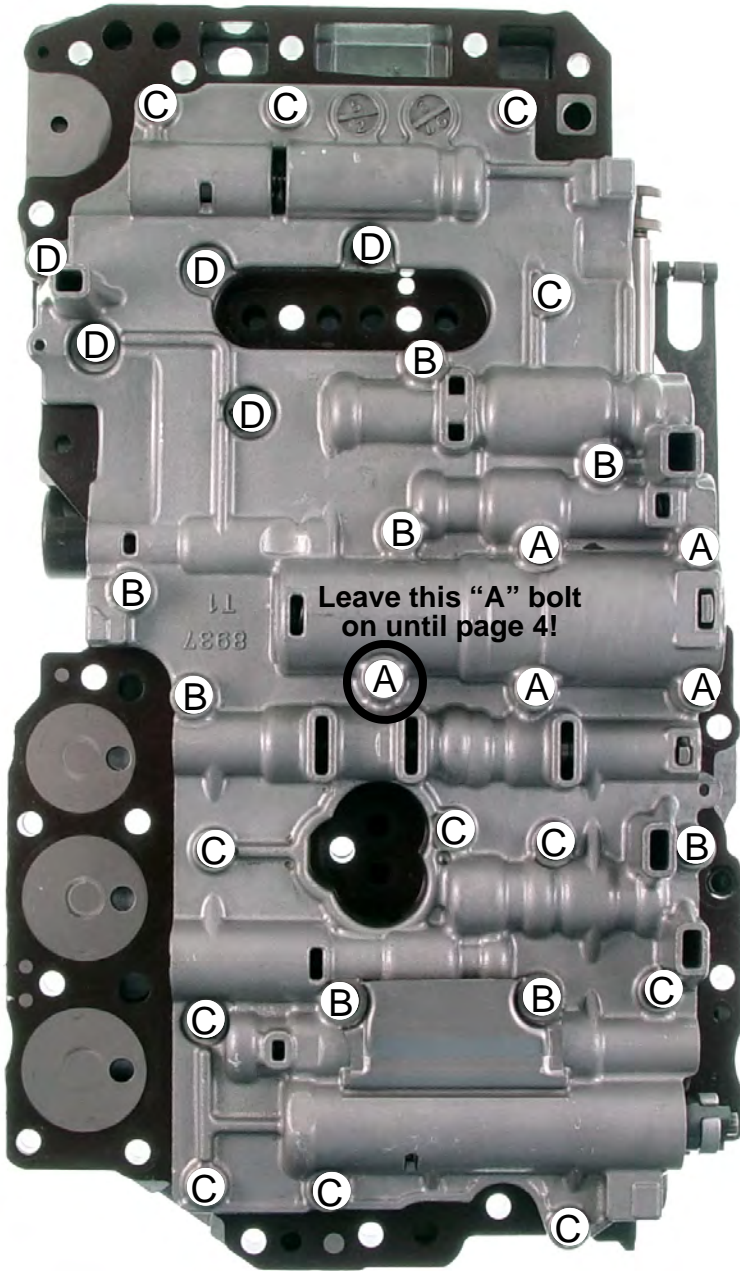
98-00 SC400 4.0L, 01-05 SC430 4.3L



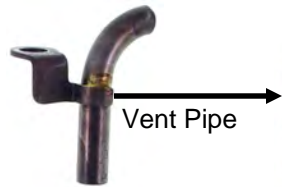
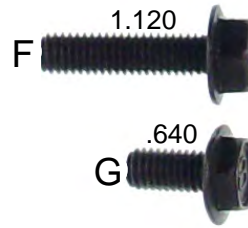
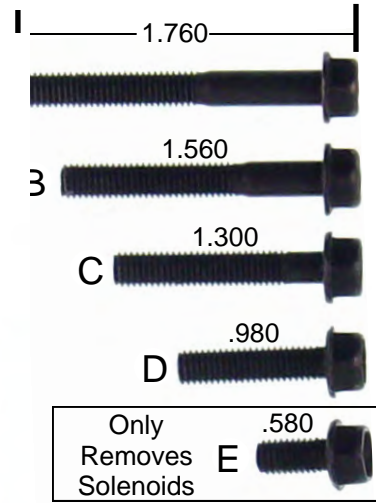
The following pages help you get it apart. The **LAST** page is the repair work. If your small part locations differ from what is shown, re-install them as found.

# Upper VB Side

Do this side of VB first!



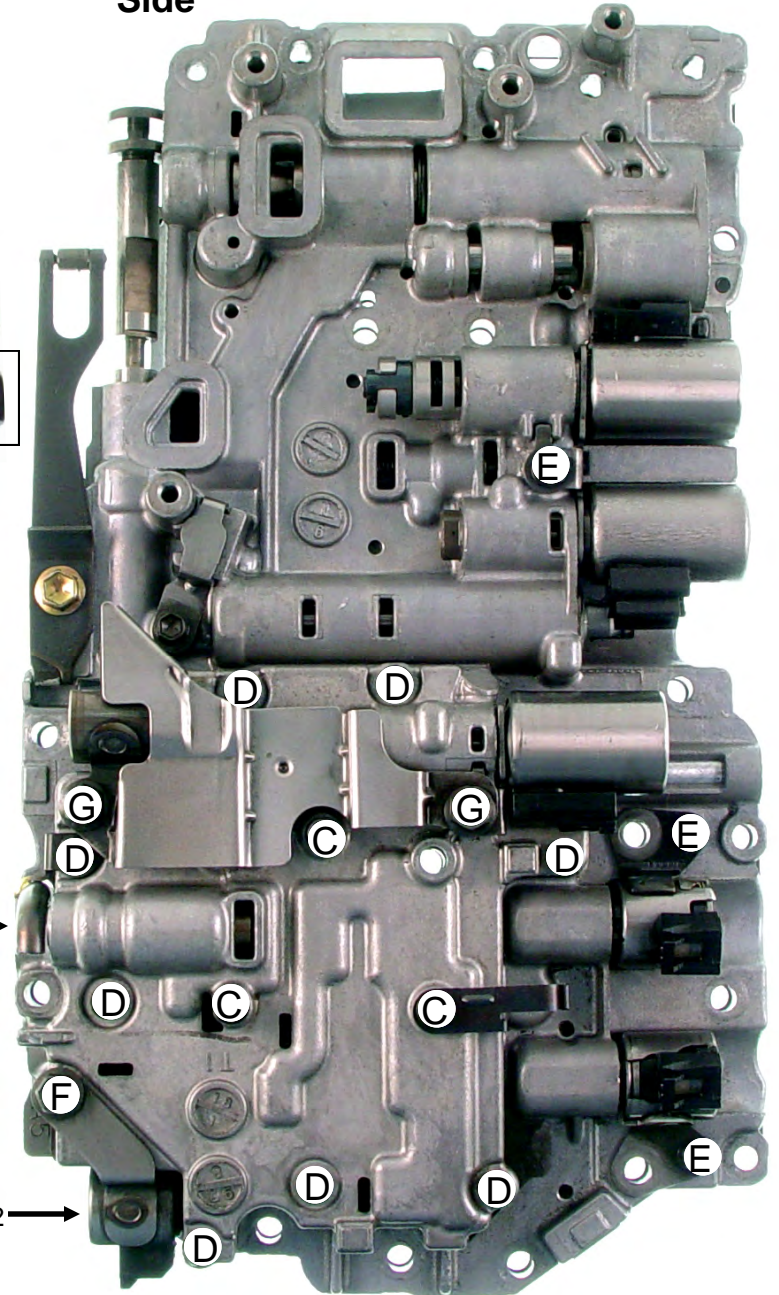
Leave this "A" bolt on until page 4!



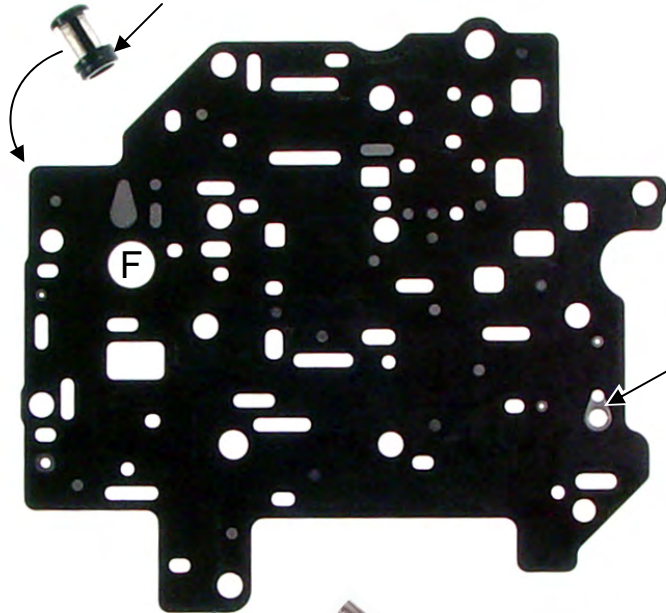
Remove SS2 →

# Lower VB Side

# Bolt Length Guide



F= Filter Screen  
 Filter installs on back  
 side of plate. Sits in "F"  
 pocket of small VB.



Teardrop gasket  
 goes on this side.  
 Oval goes on back.  
 In this area.

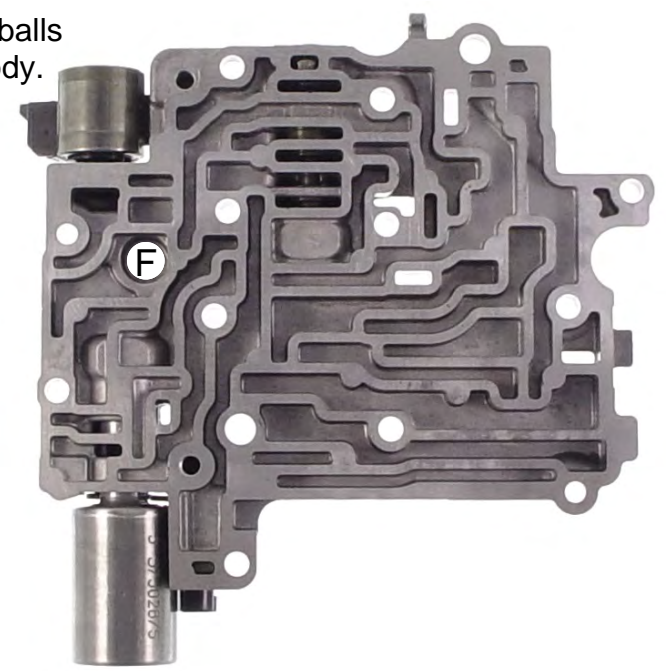
.580 Length

.315 Relief  
 Ball & Spring 813x356x047

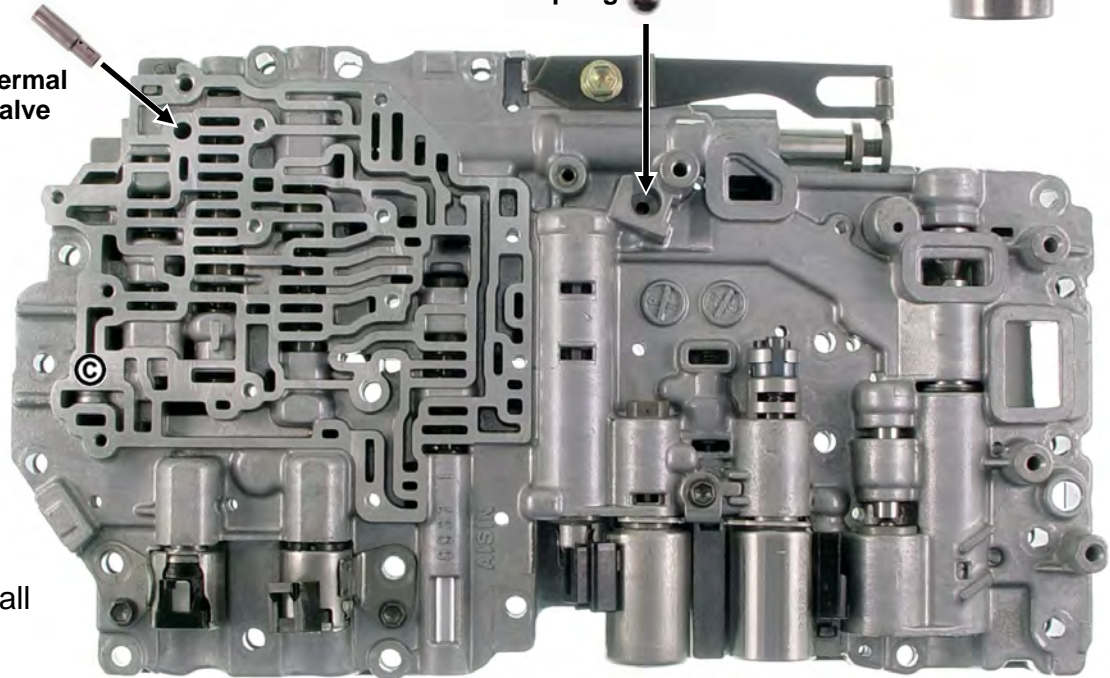


## Small Lower Body & Plate

No check balls  
 in this body.



Thermal  
 Valve  
 Enlarged  
 View



© = (1) .216 check ball

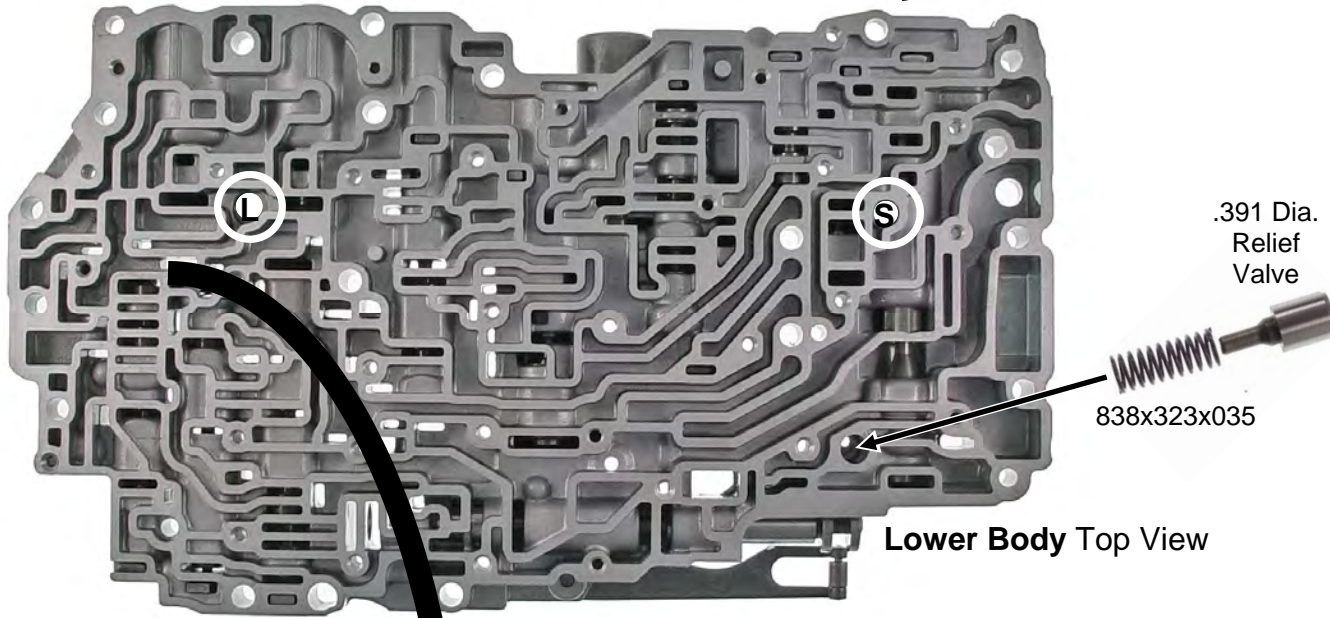
No check balls  
in this body.

S = Small Filter Location  
L = Large Filter Location

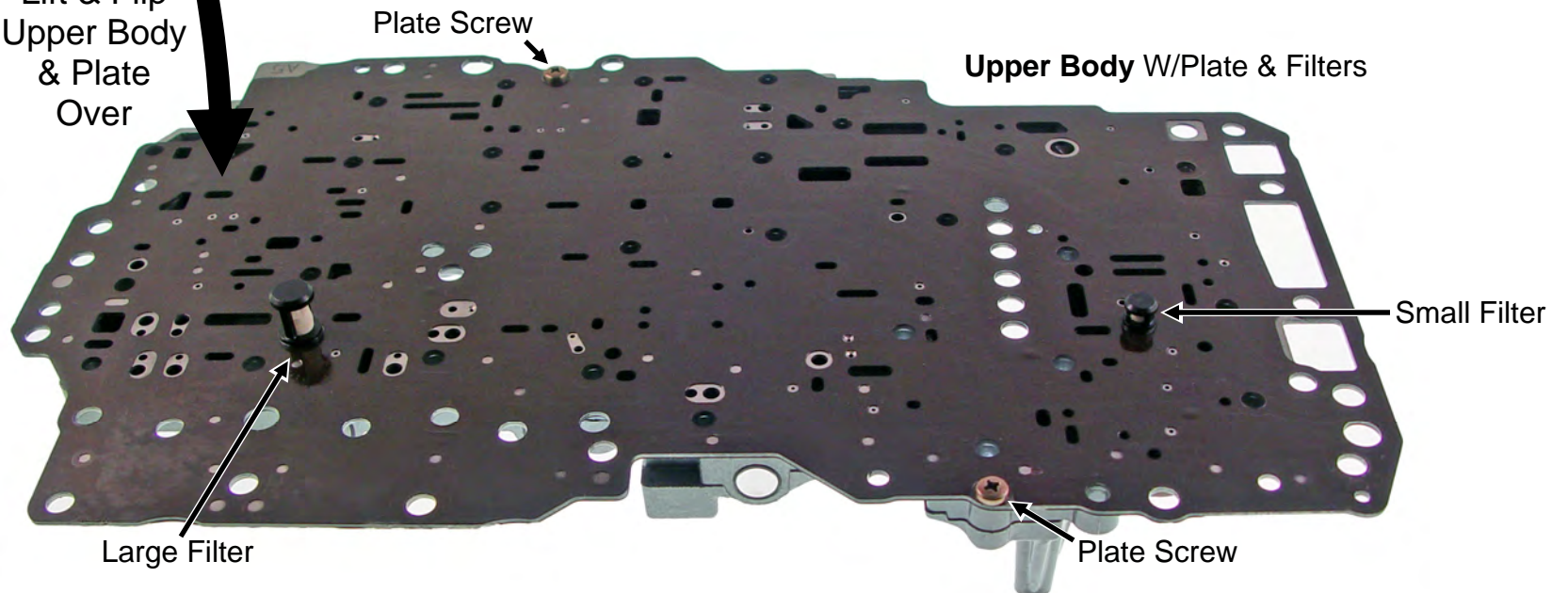
Filters mount to Plate  
& sit in pockets shown.

## Lower Body Separation

To Separate VB Half's:  
With **Upper VB** face up, remove  
final "A" Bolt and lift upper body  
& plate off lower body & flip over.



Lift & Flip  
Upper Body  
& Plate  
& Filters  
Over



# Upper Body & Plate

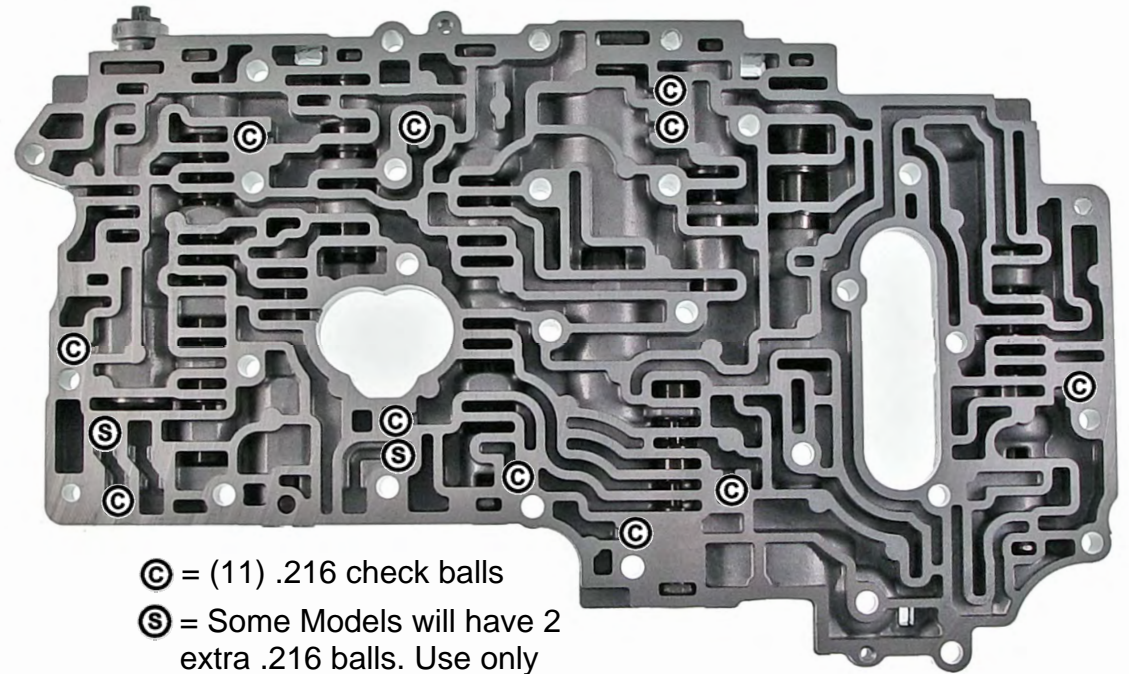
## Step 1

Help this trans stay cool do not skip this step.

### Plate Holes:

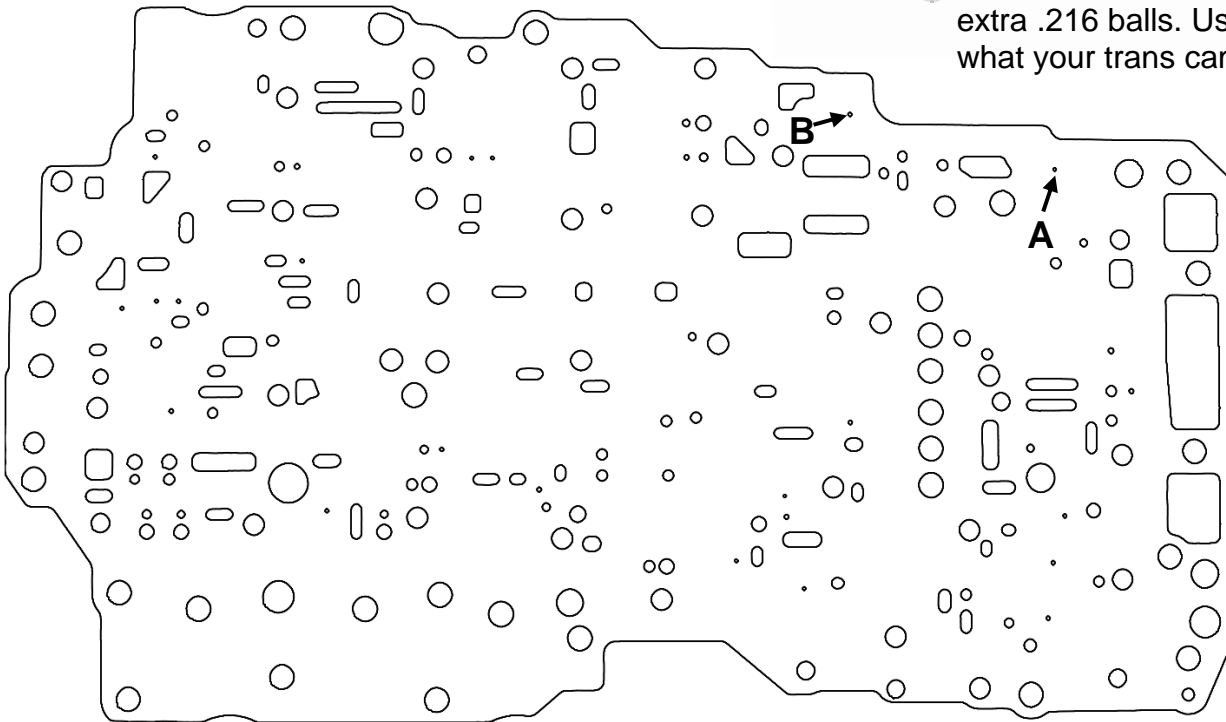
Drill Holes A & B .055

Ok if already bigger.



Ⓒ = (11) .216 check balls

Ⓔ = Some Models will have 2 extra .216 balls. Use only what your trans came with.



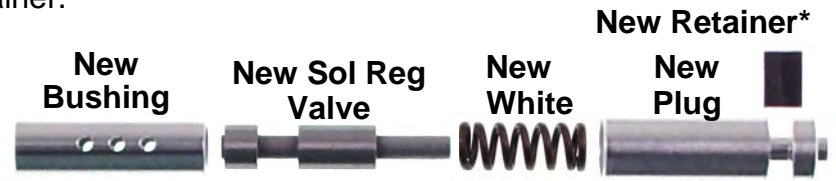
Gasket **with** 3 Accumulator Circles contacts **case and Upper Body!**

Gasket **without** Accumulator circles contacts **Lower Body!**

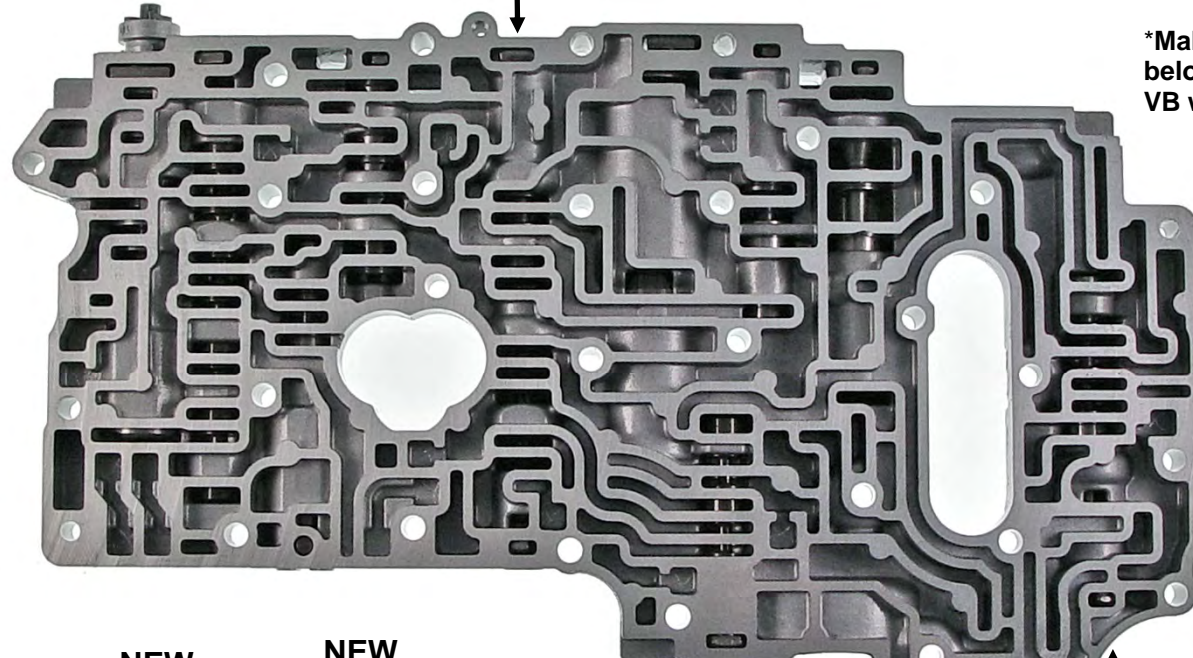
# Upper Body Valve Repair

## Step 1

Remove & Discard Original Sol Reg Valve, Spring & Retainer. Install New Bushing, Valve, White Spring, End Plug and New Retainer.

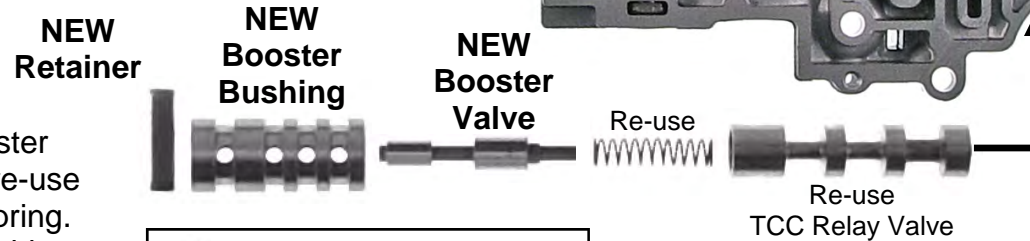


\*Make sure New retainer is below the top surface of the VB when inserted.



## Step 2.

Remove & discard old TCC Booster Valve and Bushing. Clean and re-use TCC Relay Valve and original Spring. Install NEW Booster Valve & Bushing and NEW retainer provided. Make sure retainer is below flush with VB surface. Yes, new retainer sits **behind** bushing. **Not into** the bushing like original.



This ends repair work.