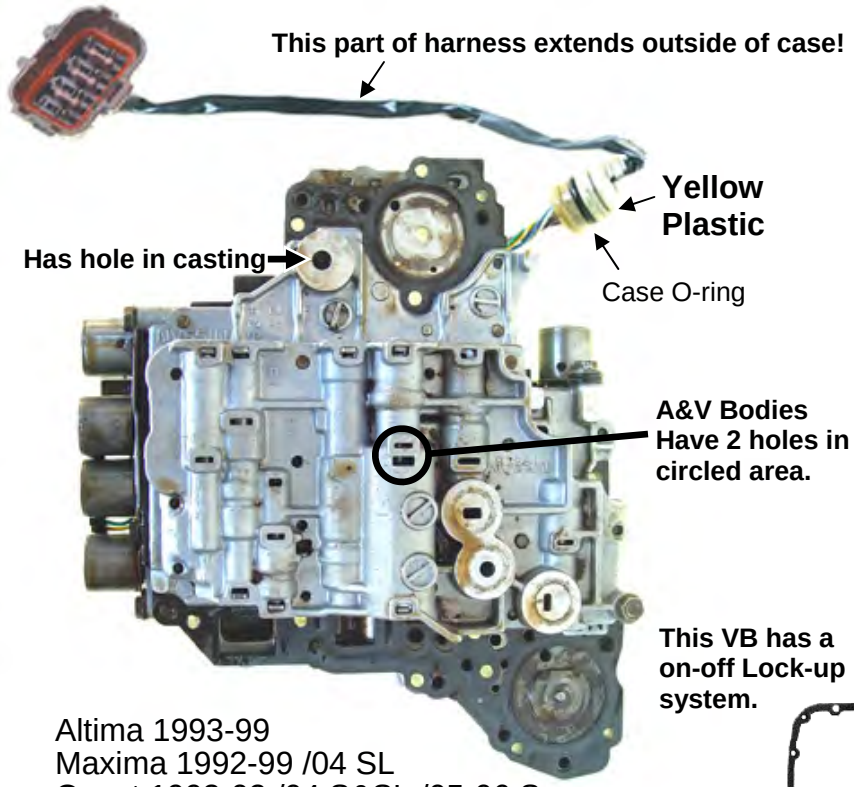
HOLD IT! Identify the valve body first!

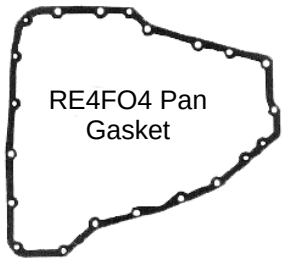
For RE4FO3 (Small Case) VB's See other side.

ONLY use kit that matches VB! No Exceptions!

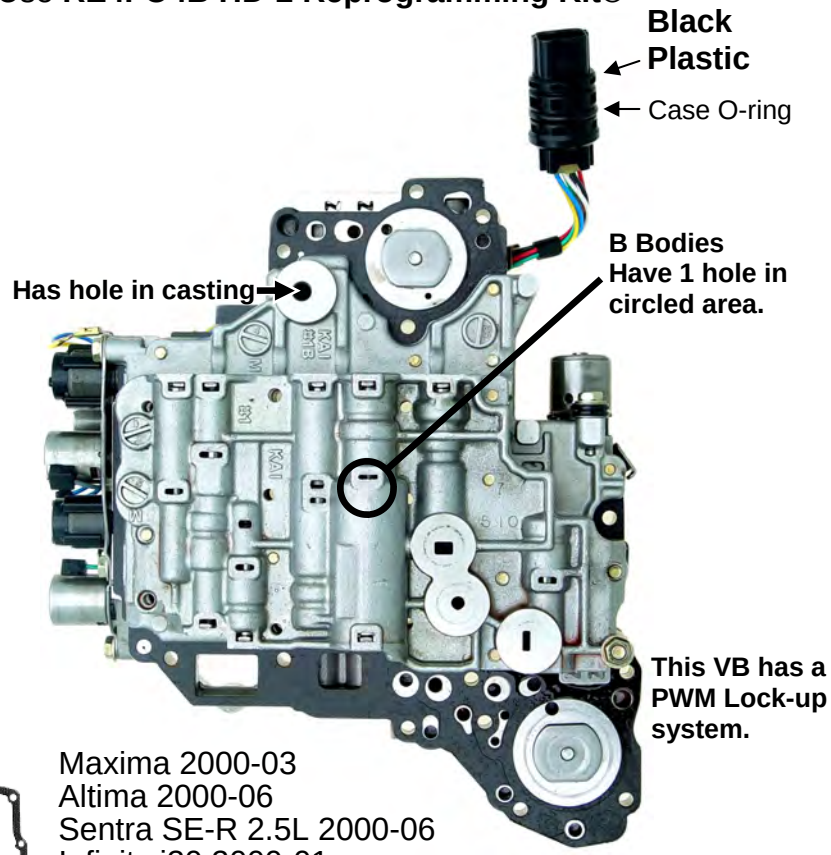
RE4FO4 A&V models: The internal solenoid wires extend outside of the case as shown below.
Use **SK® RE4FO4A**
For **Hot Rods** Only:
Use **RE4FO4A HD-2 Reprogramming Kit®**



Altima 1993-99
Maxima 1992-99 /04 SL
Quest 1993-02 /04 S&SL /05-06 S
Infinity i30 1995-99
Mercury Villager 1993-02



RE4FO4 B models: The internal solenoid wiring harness **DOES NOT** extend outside of the case!
Use **SK® RE4FO4B**
For **Hot Rods** Only:
Use **RE4FO4B HD-2 Reprogramming Kit®**



Maxima 2000-03
Altima 2000-06
Sentra SE-R 2.5L 2000-06
Infinity i30 2000-01
Infinity i35 2002

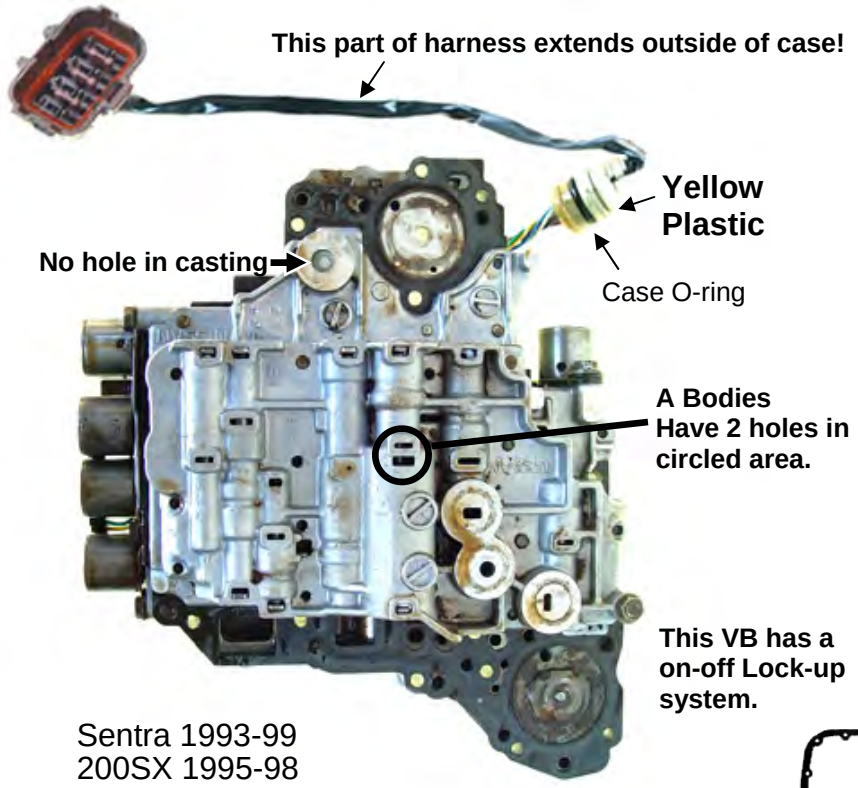
Over

HOLD IT! Identify the valve body first!

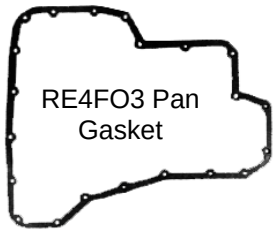
For RE4FO4 (Large Case) VB's See other side.

ONLY use kit that matches VB! No Exceptions!

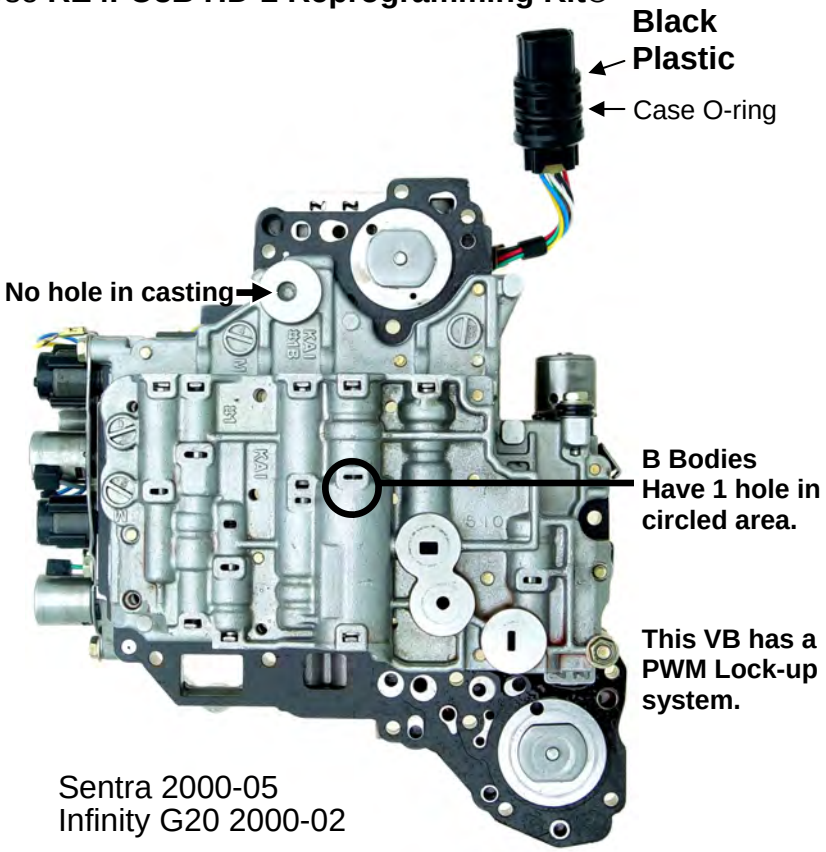
RE4FO3 A models: The internal solenoid wires extend outside of the case as shown below.
Use **SK® RE4FO3A**
For **Hot Rods** Only:
Use **RE4FO3A HD-2 Reprogramming Kit®**



Sentra 1993-99
200SX 1995-98
Infinity G20 1994-99



RE4FO3 B models: The internal solenoid wiring harness **DOES NOT** extend outside of the case!
Use **SK® RE4FO3B**
For **Hot Rods** Only:
Use **RE4FO3B HD-2 Reprogramming Kit®**



Sentra 2000-05
Infinity G20 2000-02

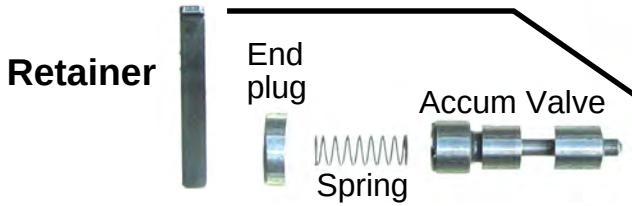
RE4F04B Shift Kit®

NISSAN Quest-- 2003-04 **Maxima--Altima** 2000-04
MERCURY Villager 4F2OE 2003-04
Infinity i30 2000-04

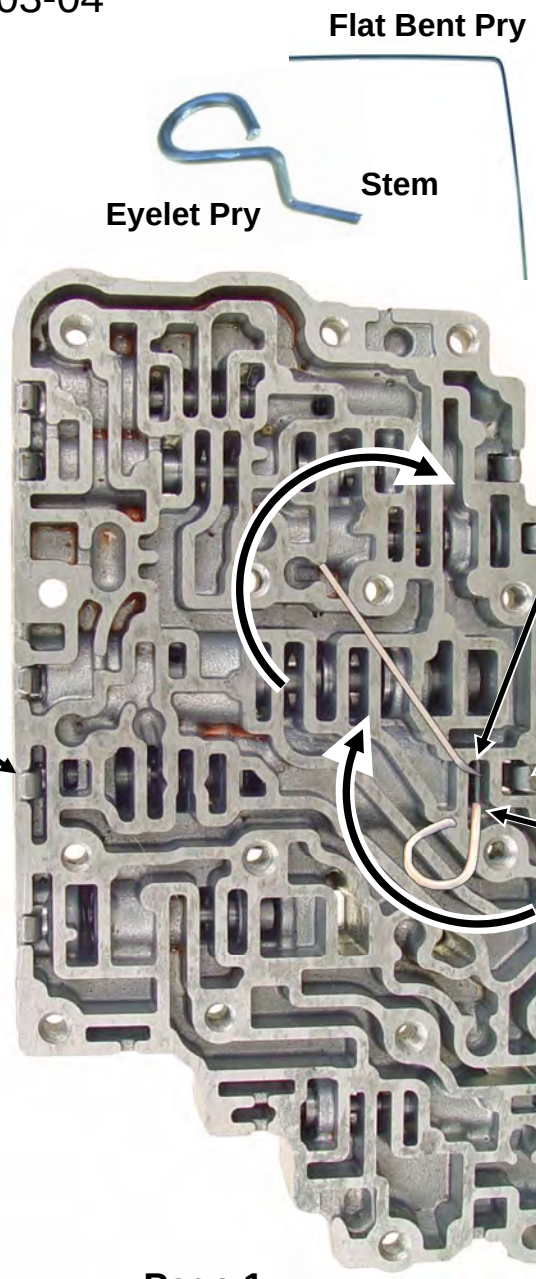
You've never felt a Nissan shift this good, Hot or COLD.

This Kit is about:
Rough 2nd cold. No 3rd after a 3 -2 or 4-2 kickdown. Direct clutch **(3rd**) inner seal **leaks**, wears or opens up, etc. Corrects Hard and Soft 1-2. Long 2-3 heavy throttle. **Firmer 4th and Lockup.**

Use a skinny punch from other side of VB to *push* accum valve out of bore.

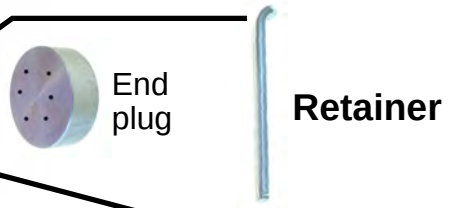


LISTEN UP: If trans is out of vehicle do page 6 first.



Step 1. Remove **Retainers**. With sand paper smooth the small burr where the retainer was against bore.

Step 2. Insert **Flat Bent Pry** between the end plug & accum piston. Push piston inward *away* from the end plug far enough to insert the stem end of eyelet pry.



Step 3. With **Eyelet Pry** *push* the end plug ***GENTLY*** in various spots to remove it. Then remove 2nd accum piston, spring & washer on **Page 2**.

Then *push* accum valve and end plug, out of the valve body, from this side with a thin punch.

Upper Valve Body

You'll love the 1- 2 shift.
Short--Smooth--No bangs

© Checkballs:

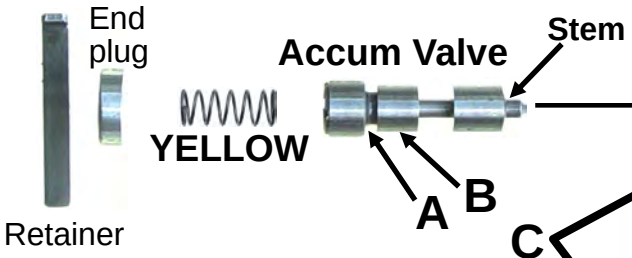
Seven Steel .214 to .218
Don't use plastic balls.

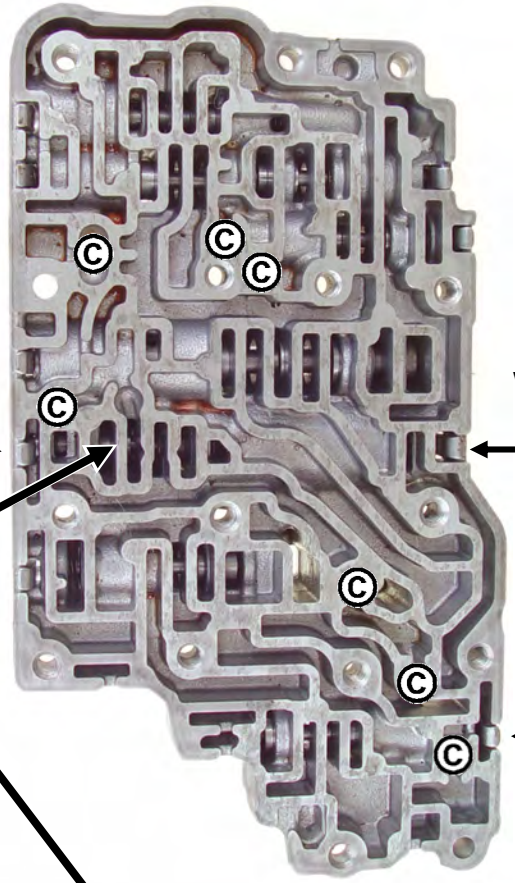
Use some **Vaseline** to keep the checkballs in place ***NOT*** grease.

Hello Mechanic:
Install accumulator valve first. Then, from this side, install the flat washer on the stem of Accum Valve, then the remaining parts as shown.

Step 1.

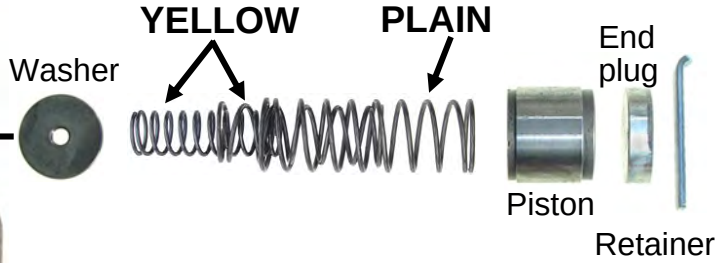
Remove the accum valve. Chamfer partition as shown at bottom of page. Clean bore. Reinstall valve. Install **YELLOW** spring, end plug & retainer.





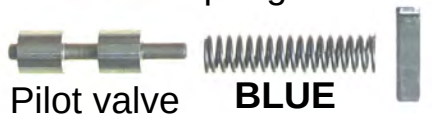
Step 2. 2nd Accum Piston

Remove & discard original spring. Install the three springs furnished.



Step 3. Pilot valve

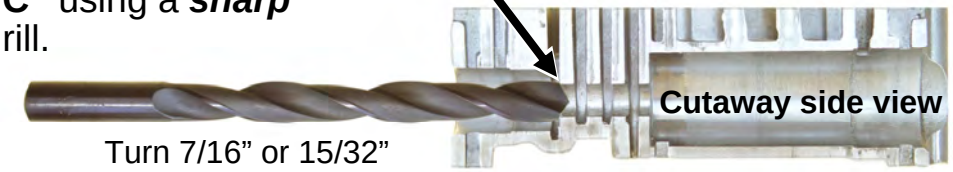
Install **BLUE** spring.



Here's Why: Edge **A** on the valve hits partition at **C**. This deforms the bore which sticks the valve at land **B**.

Here's how to fix it:

By HAND, make a slight chamfer in valve bore at "**C**" using a ***sharp*** 7/16" or 15/32" drill.

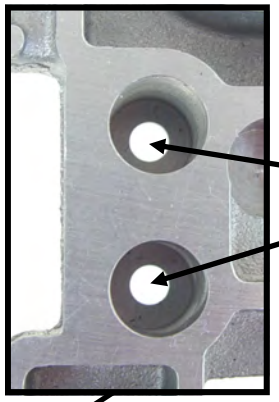


Turn 7/16" or 15/32" drill by hand in bore.

Upper Valve body

Mr. Shift

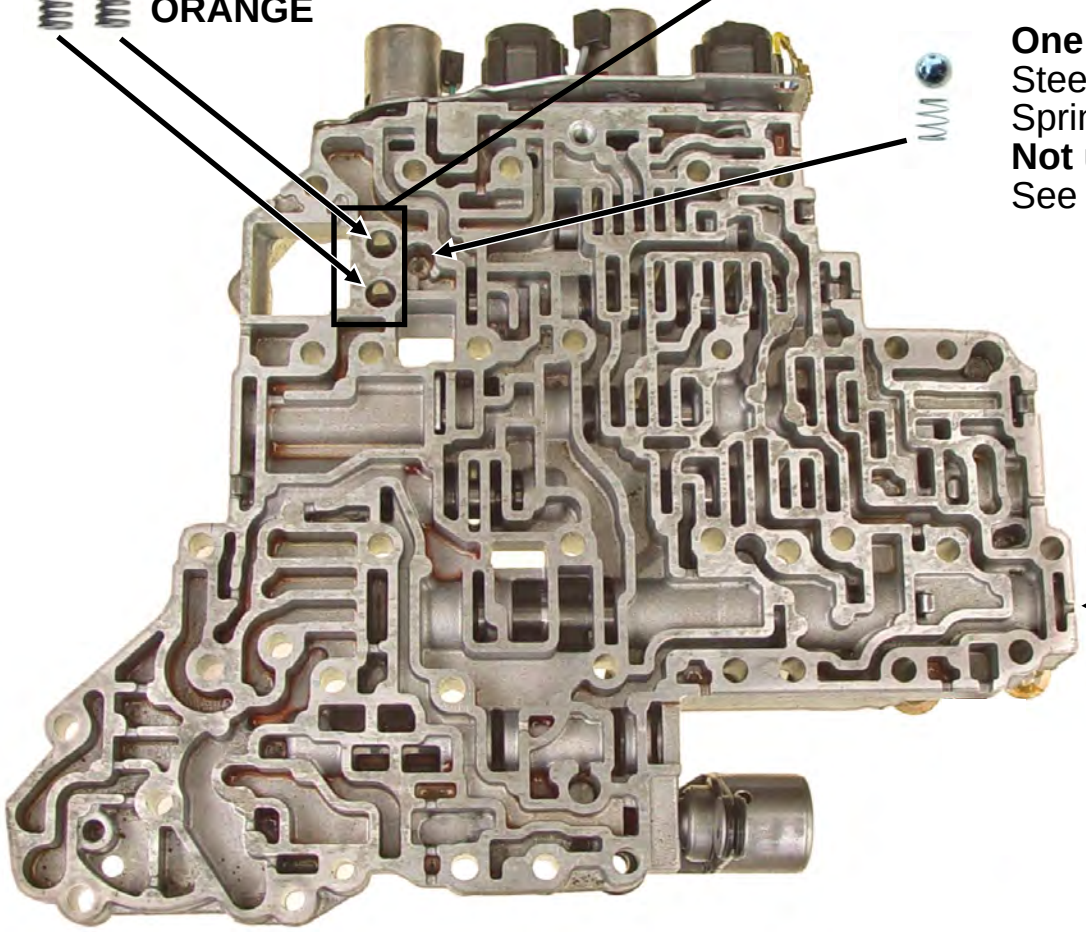
Main Valve Body



2. Enlarge the limit drain holes with a 1/4” drill.

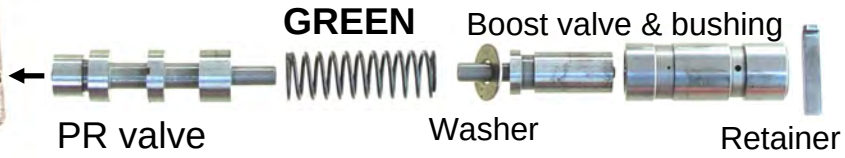
3. Install new **orange** springs & .265 steel balls furnished.

Steel balls
.265 diam
ORANGE



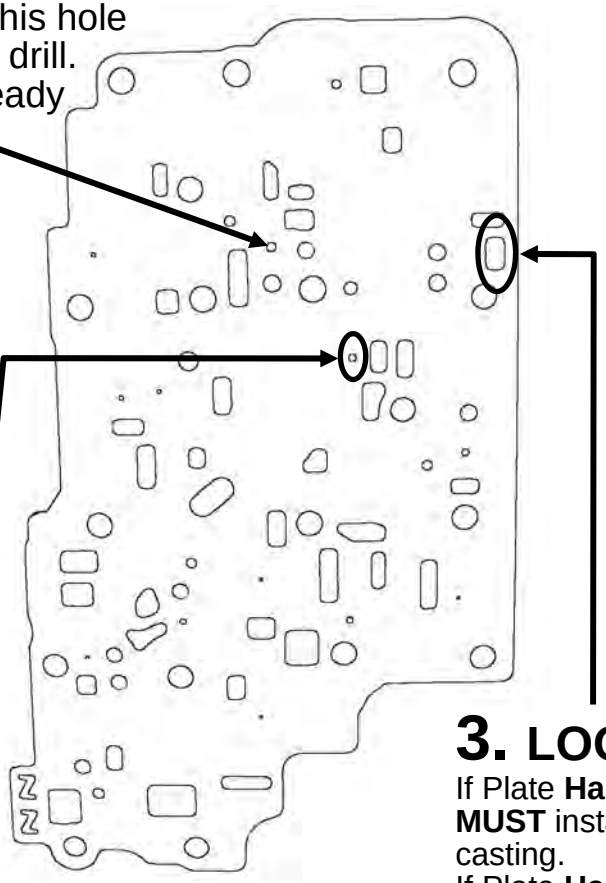
One Way Ball & Spring
Steel ball 5/16” (.312)
Spring .012 x .285 x .330
Not used all models.
See Plate on **Page 4, Step 2**.

1. Install **GREEN** Pressure regulator spring furnished.



Upper Separator Plate
(Small Plate)

1. Enlarge this hole with .086 drill. OK if already bigger.



2. LOOK

If the plate **HAS** hole here, Main VB **MUST HAVE** Steel One Way Ball and Spring.
No Hole, No Ball & Spring.
(See main VB **Page 3**)

3. LOOK

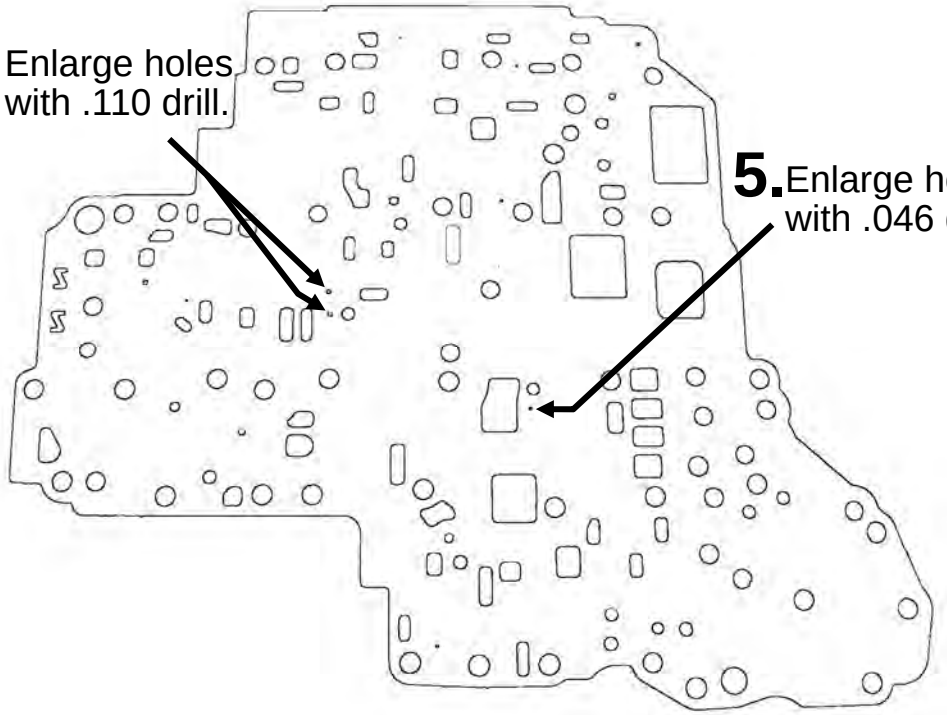
If Plate **Has Square** hole here, **MUST** install "**R**" ball in the channel casting.
If Plate **Has Round** hole here **Do NOT** install "**R**" ball in the channel casting.

See Channel Casting **Page 5**.

Main Separator Plate
(Large Plate)

4. Enlarge holes with .110 drill.

5. Enlarge hole with .046 drill.



Actual size

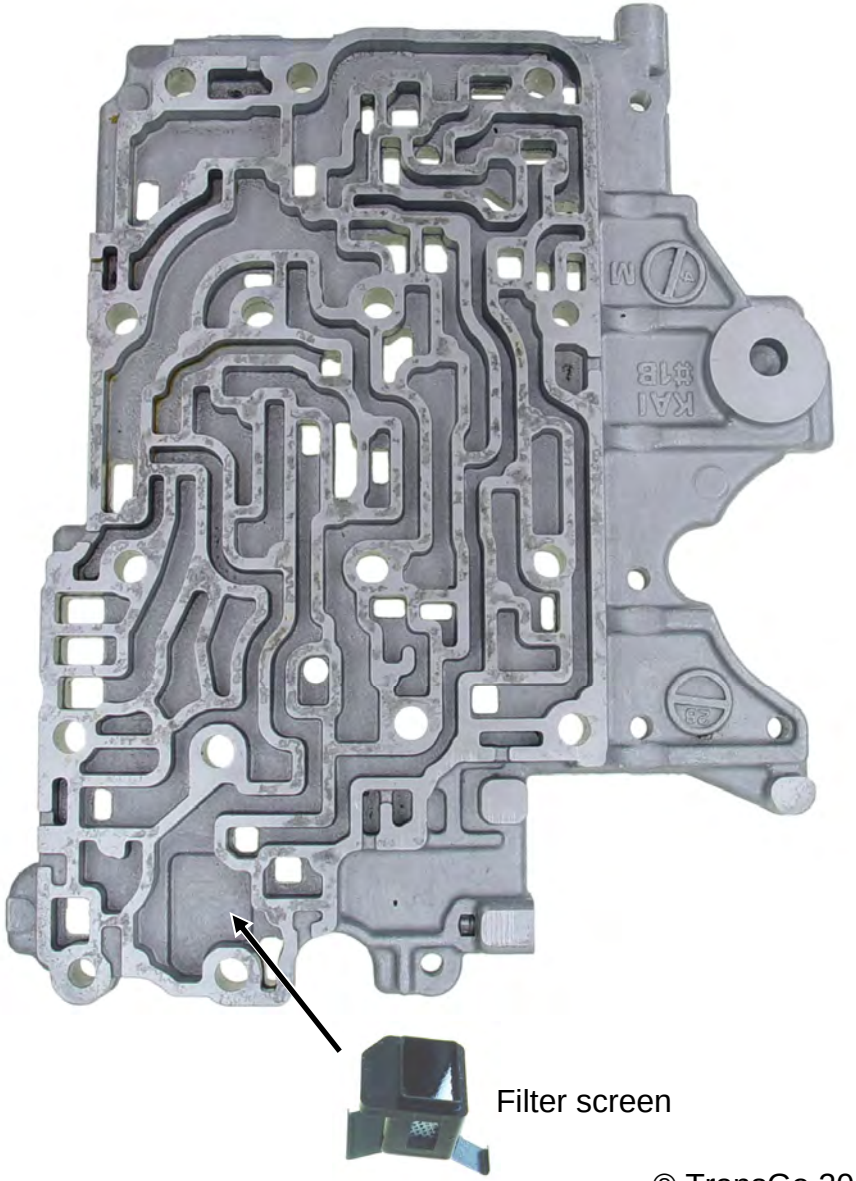
Channel Casting

Use some **Assembly Gel** to keep the checkballs in place ***NOT*** grease!

Checkballs: Steel .214 to .218 Don't use plastic balls

Ⓒ Five, all models.

Ⓡ Model Dependant see **Page 4, Step 3.**



Filter screen

LISTEN UP:
Do NOT install ball "**R**" if Upper Plate **HAS** a **Round** hole. (See **Page 4, Step 3)**

Hi-Temp Low-Shrink Rings

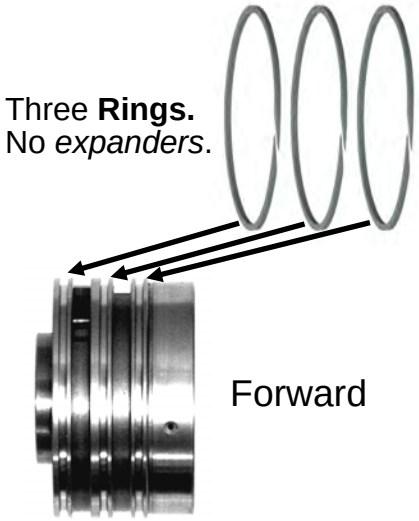
If trans is in vehicle skip this page.

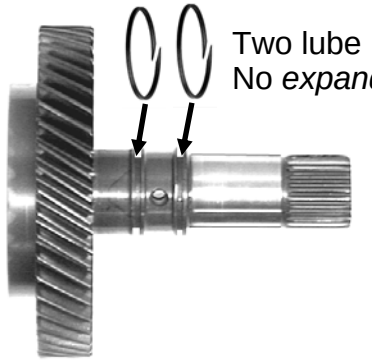
Air checking Plastic Rings:

1) Put 20 squirts of oil into feed hole in case.
2) Apply clutch with full shop air and hold it for 20 seconds. Clutch MUST apply. If it does not, try rotating the drum or input and output shaft, add 10 more squirts and retry.
3) Reduce pressure to 40 psi and give the feed hole another 20 squirts. Clutch MUST apply.

1. Forward & Lube Rings

Use Trans Jel and ***GENTLY*** push rings down into grooves. Ends of rings should just touch or have small gap. If pushed together **FIRMLY** they **BIND** in groove & **WON'T SEAL.**

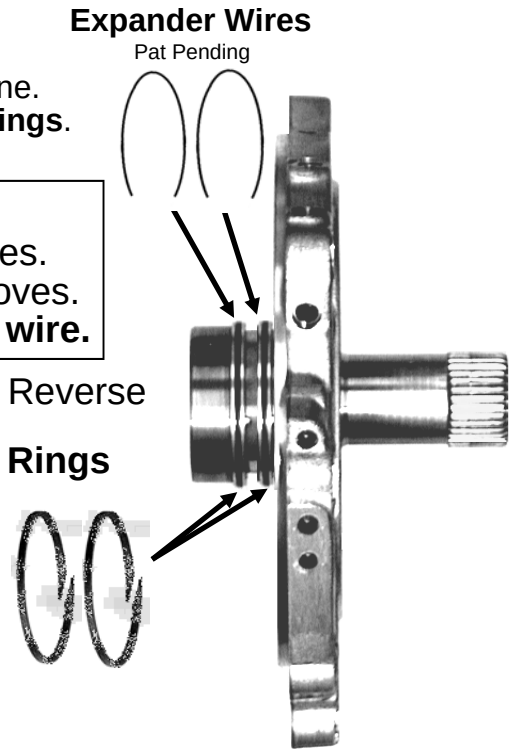




2. Reverse Rings

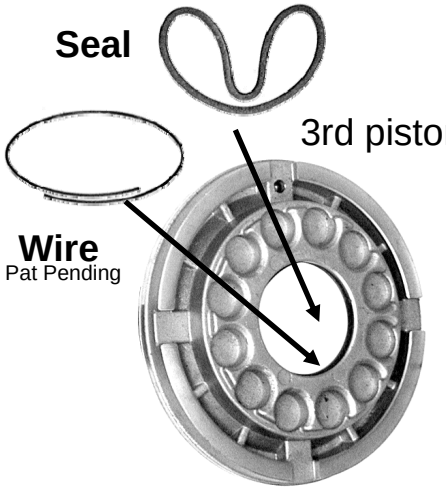
Fill grooves with Trans Jel or Vaseline.
Install **Expander Wires**, then two **Rings**.

LISTEN UP: Steps 2 & 4
Some models have shallow grooves.
Rings **MUST** push ***flush*** into the grooves.
If rings wont push flush don't use wire.



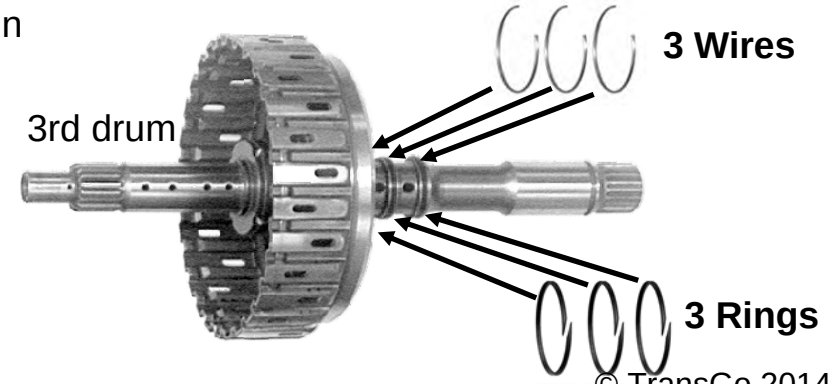
3. Third Clutch (Direct) Inner Piston Seal

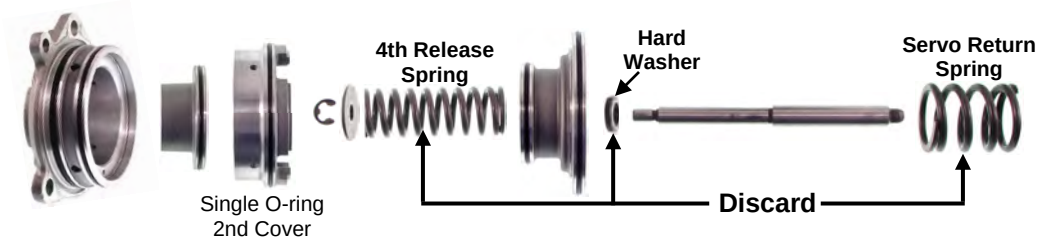
Insert overlap part of **Wire** into groove at 6 O'clock. Then shape the **Seal** as shown and install into the piston groove.



4. Third Clutch Drum Rings

Fill the grooves with Trans Jel or Vaseline.
Install **Expander Wires**, then three **Rings**.



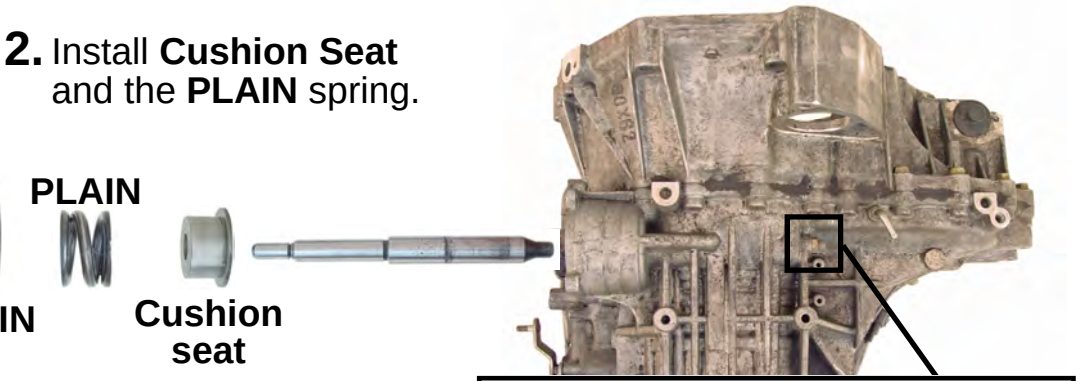


1. Remove and discard original servo return spring, hard washer and 4th return spring. Parts work on both types of servo assy's.

---

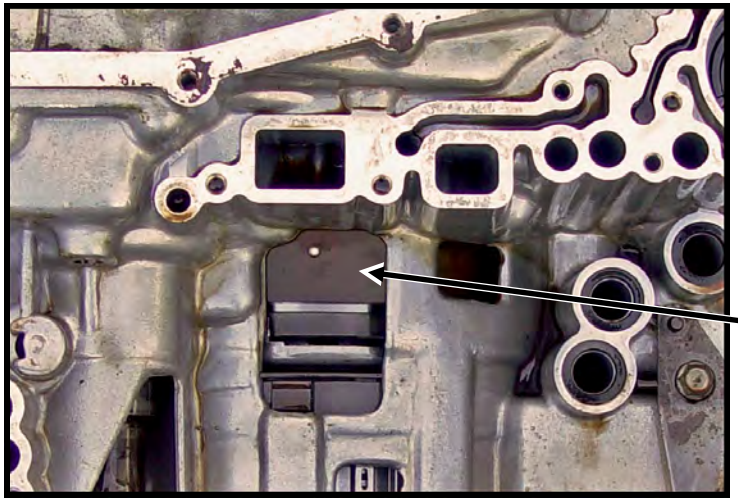
4. Install **ORANGE** 4th piston release spring.

2. Install **Cushion Seat** and the **PLAIN** spring.



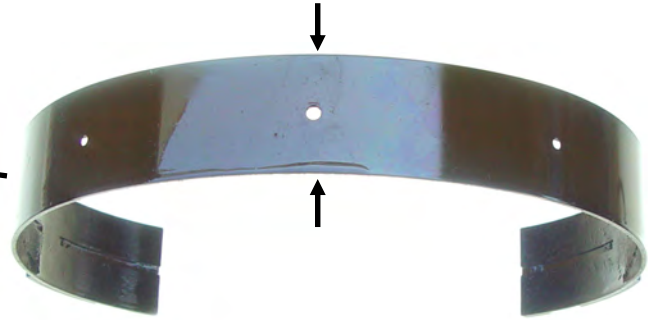
3. Install **PLAIN** release spring over lip on the 2nd piston as shown. Use smallest end of spring that fits snug.

Band adjustment:
Loosen the locknut. Adjust snug with short wrench, then back off 2 to 2-1/2 turns. Tighten the lock nut. Use14mm wrench and T30 TORX bit.



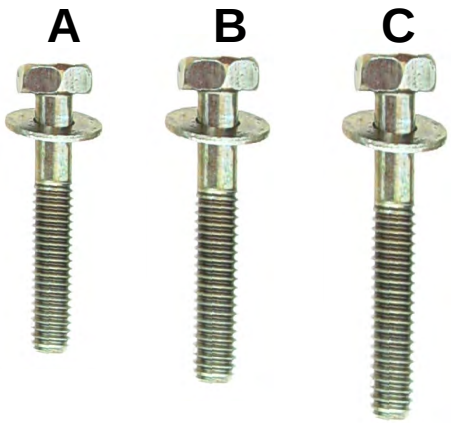
Checking band adjustment.

With your finger tip, the band should wiggle back and forth on drum at least 1/16".

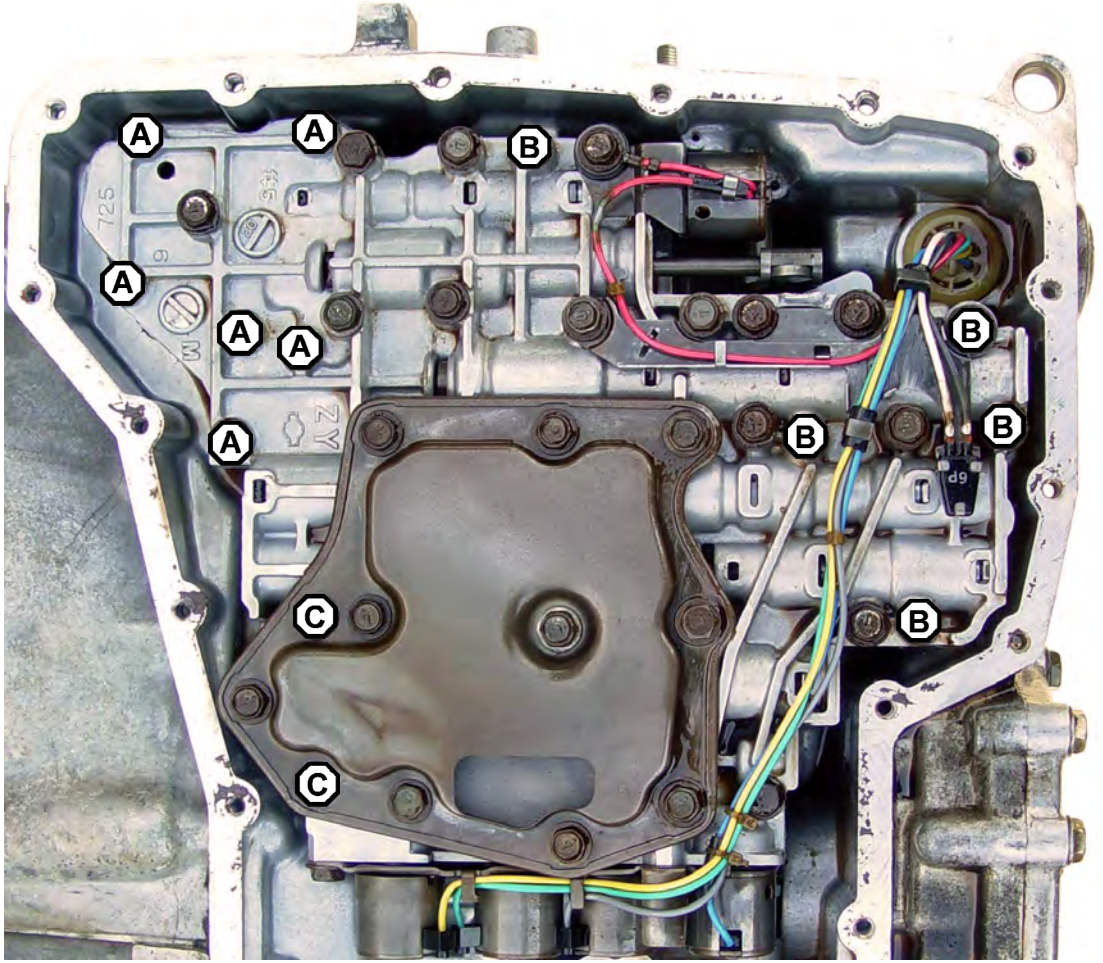


VB to Case Bolts

"**A**"	Six bolts	1.455"
"**B**"	Five bolts	1.725"
"**C**"	Two bolts	1.885"



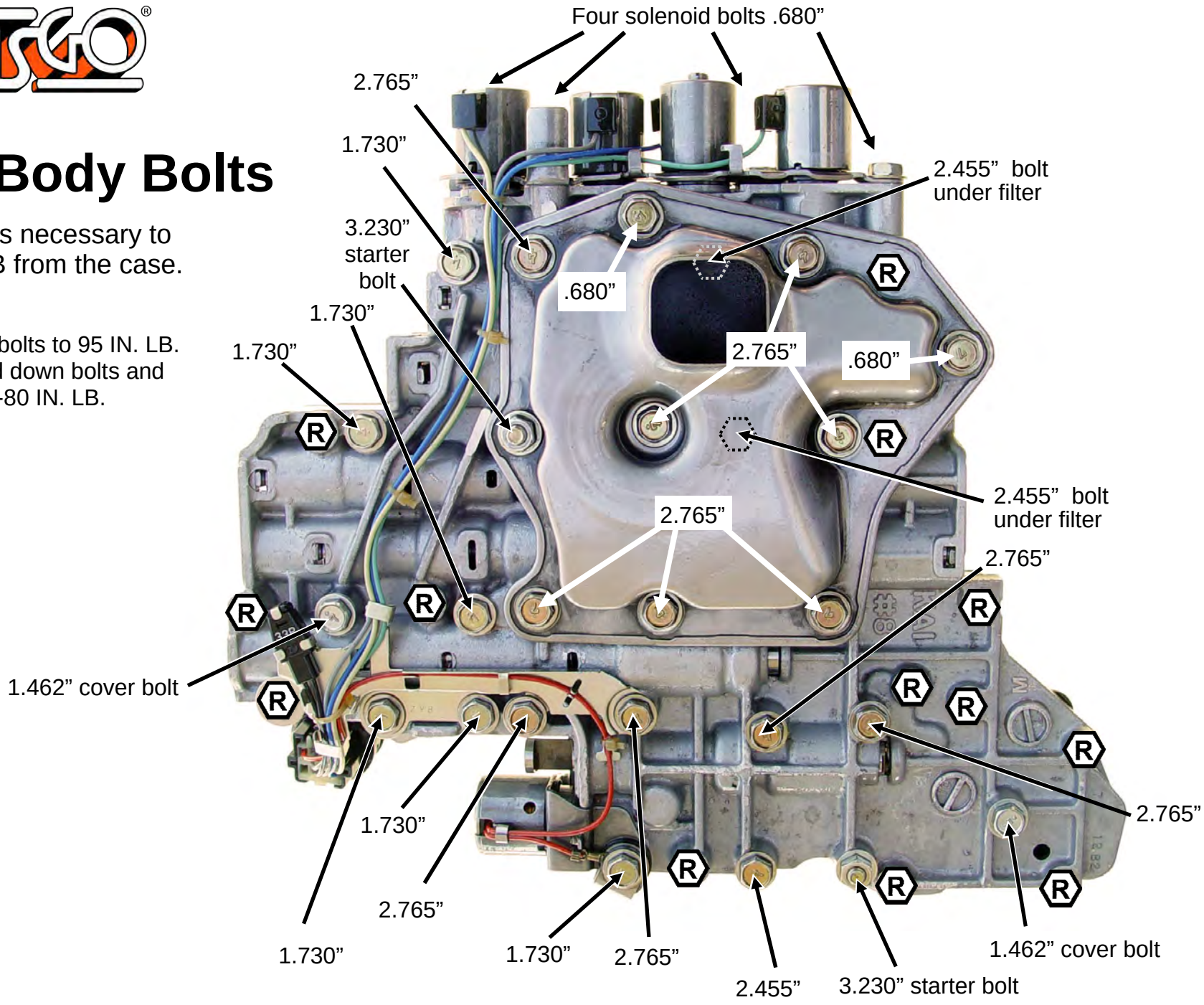
Tighten VB bolts to 95 IN. LB.
Pan bolts to 65-80 IN. LB.
Drain plug to 25 FT. LB.



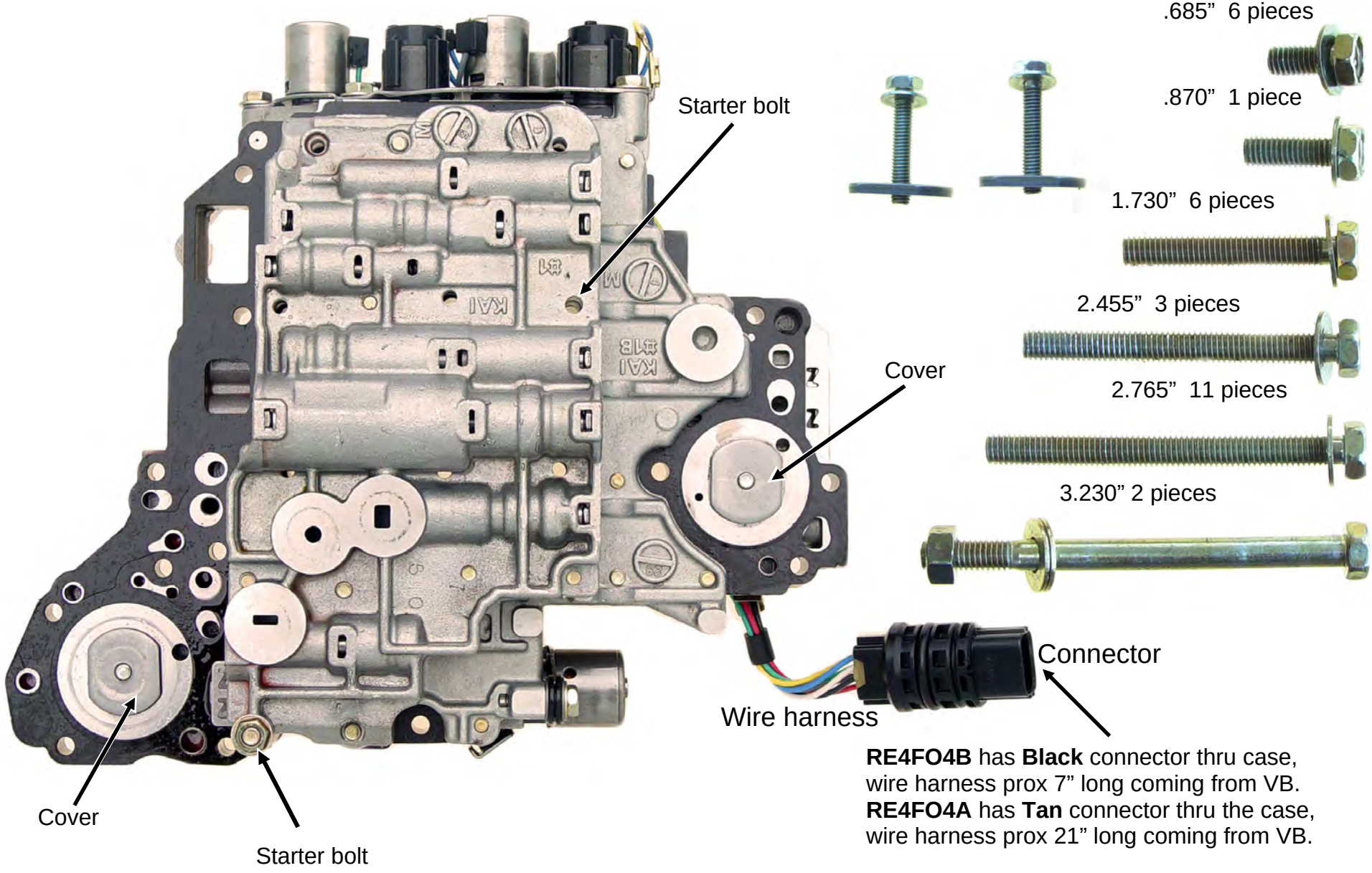
Valve Body Bolts

Ⓡ 13 bolts necessary to remove VB from the case.

Tighten VB bolts to 95 IN. LB.
Tighten hold down bolts and plates to 70-80 IN. LB.



Tighten VB bolts to 95 IN. LB.
Tighten hold down bolts and plates to 70-80 IN. LB.



RE4FO4B has **Black** connector thru case, wire harness prox 7” long coming from VB.
RE4FO4A has **Tan** connector thru the case, wire harness prox 21” long coming from VB.