# RE4F03A-HD2 Reprogramming Kit<sup>™</sup>

### Corrects/Reduces/Prevents

No 3rd after a 3-2 or 4-2 kickdown.

Direct clutch (3rd) inner seal leaks, wears or opens up, etc.

Corrects Soft 1-2. Long 2-3 at heavy throttle. Firmer 4th & Lockup.

Nissan never shifted this good, until now.

Front Drive Nissan-- Without TV Cable Sentra GXE 93-99 200SX 95-98 G20 Infinity 94-99



RE4F03A HD2 3 Aug 04

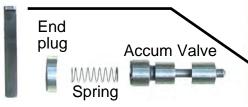
#### You've never felt a Nissan shift this good, Hot or COLD.

#### 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.

Retainer



Mr. Shift



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



Retainer

**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 from this side of VB with a thin punch.

**Eyelet Pry** 

Stem

# **Upper Valve Body**

#### © Checkballs:

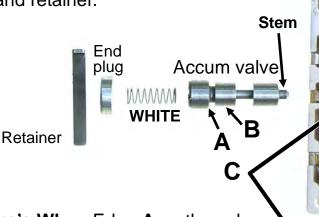
Five Steel .214 to .218 Don't use plastic balls.

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

**Step 1.** Remove the accum valve. Chamfer partition as shown at bottom

of page. Clean the bore. Reinstall valve. Install the WHITE spring, end

plug and retainer.



**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.

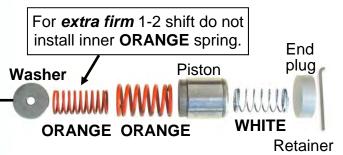
Upper Valve body

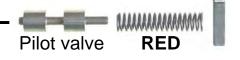
Cutaway side view

#### Step 2. 2nd Accumulator Install Three NEW springs.

Install accum valve first. Then install the flat washer on the **stem** of accum valve. from this side. Then install the remaining parts as shown below.

You're going to love 1-2 shifts.

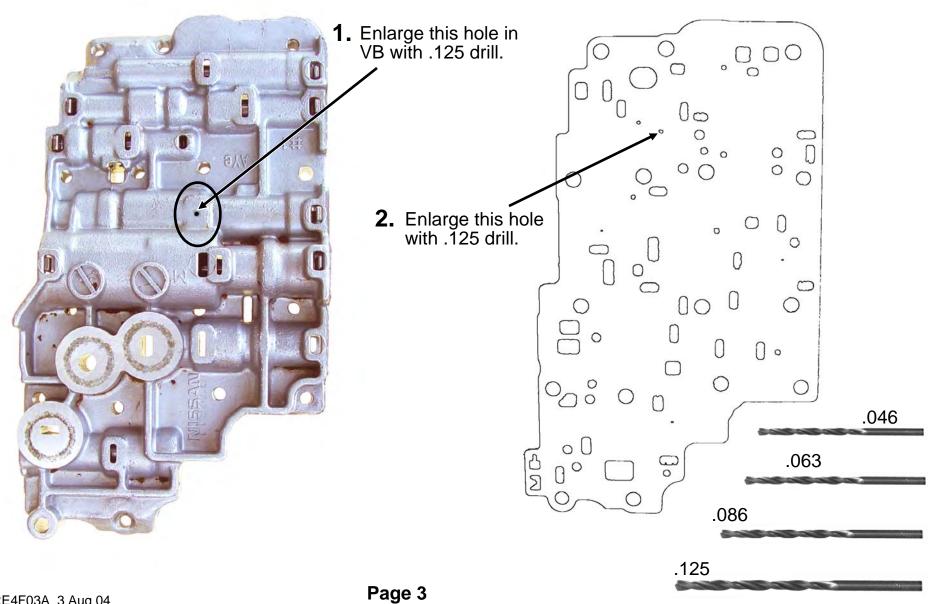




**Step 3.** Pilot valve. Install **RED** spring.

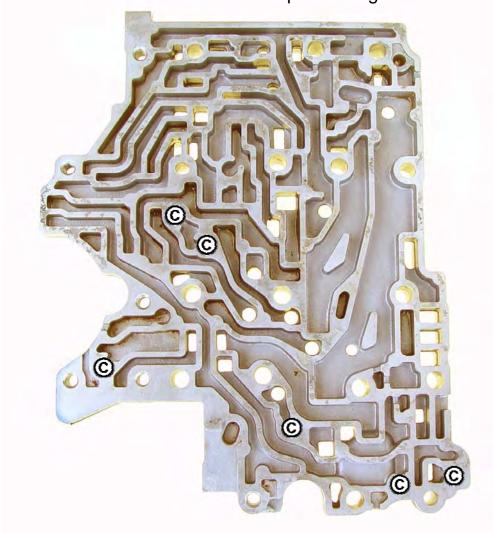
## **Upper Valve Body**

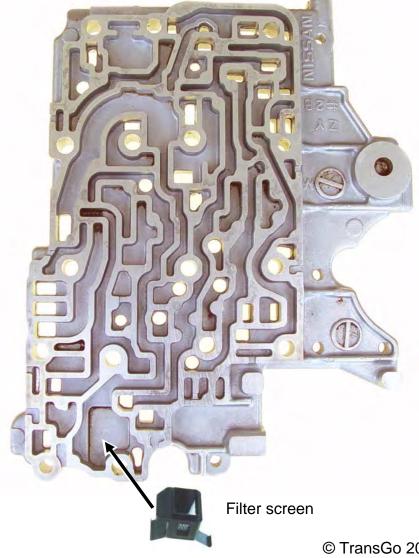
## **Upper Separator Plate**



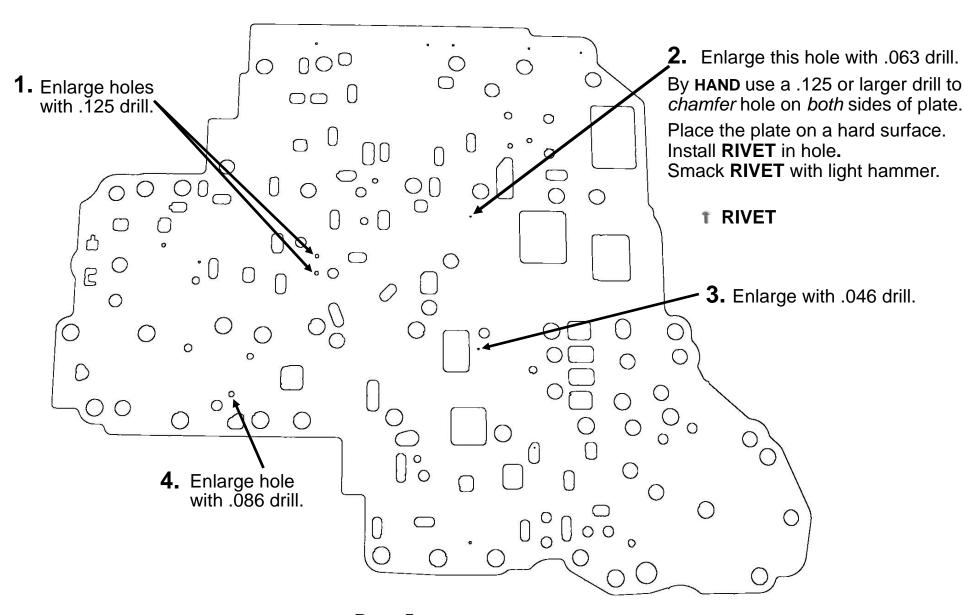
## **Channel Casting**

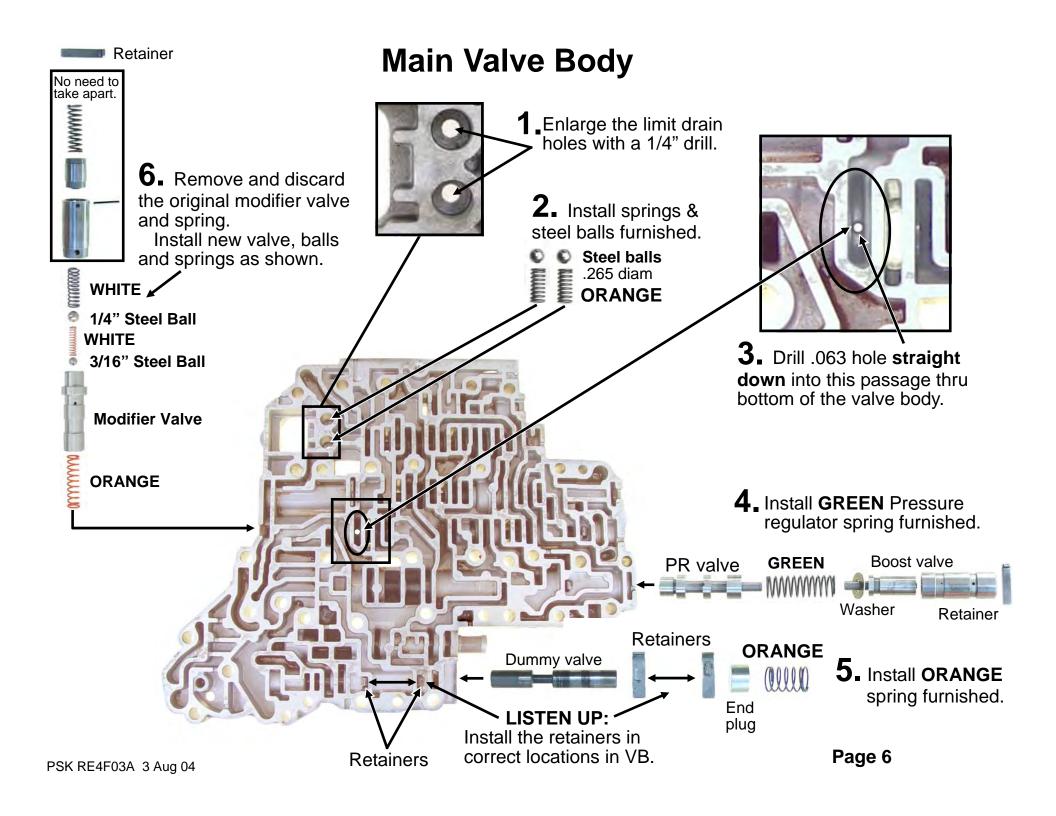
© 6 Steel balls: .214 to .218 Don't use plastic balls. Use **Vaseline** to keep check balls in place not grease.

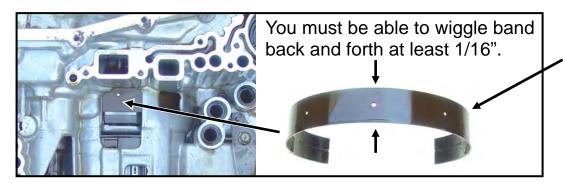




## **Main Separator Plate**



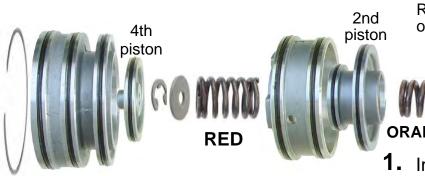




#### **Check Band Adjustment:**

Install 2nd piston with new cushion seat and spring. If band will wiggle on drum 1/16" by hand, you can skip the band adjustment shown below.

See Page 8 for more information.



Remove and *discard* original hard washer.

**Cushion seat** 

ORANGE

Reuse

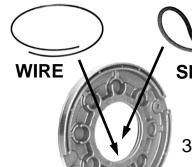
 Install Cushion Seat, **ORANGE** and **RED** springs furnished.

**Band adjustment:** Snug with short wrench, then back off 2 to 2-1/2 turns and tighten lock nut. Use 14mm wrench and T30 TORX bit.

## Do step 2 if trans is out of vehicle.

Poor design 3-4 clutch inner piston seal causes trans to lose 3rd & 4th. Usually worse when hot or after Kickdown.

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



Pat #6,575,472

**SEAL** 

3-4 Piston

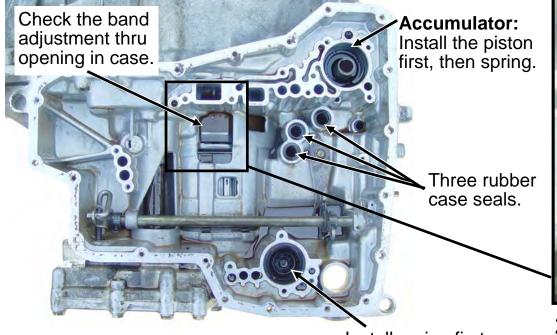
3-4 Clutch Drum

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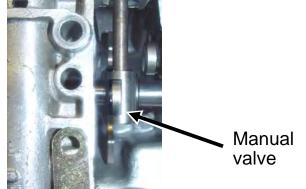
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**Before installing Valve Body** 

1. Check position of parts in case.



Install spring first, then accum piston.



**3.** When reinstalling the Valve Body on the case, install the manual valve in the direction shown.

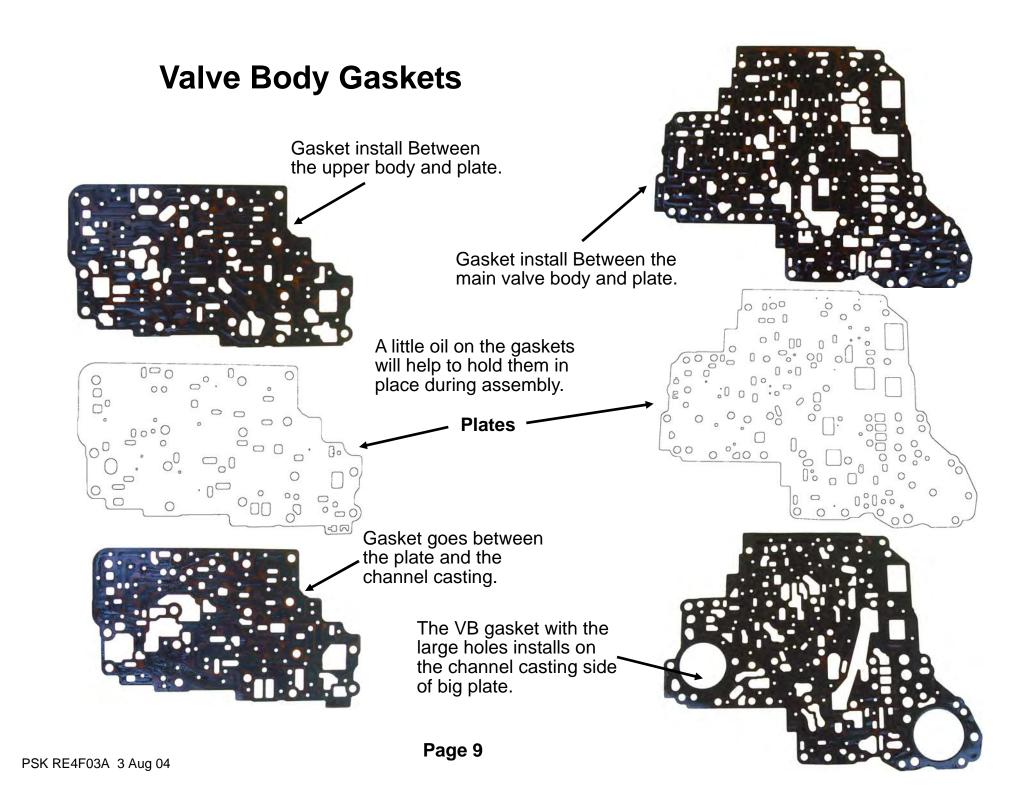
2. After installing the 2nd piston check band

1/16"

**2.** After installing the 2nd piston check band adjustment. With finger tip, band should wiggle back and forth on the drum at least 1/16".

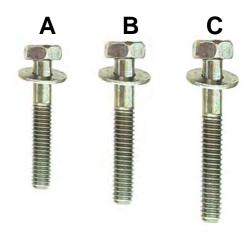


Tighten drain plug to 25 foot lbs.
Tighten pan bolts to 65-80 inch lbs.

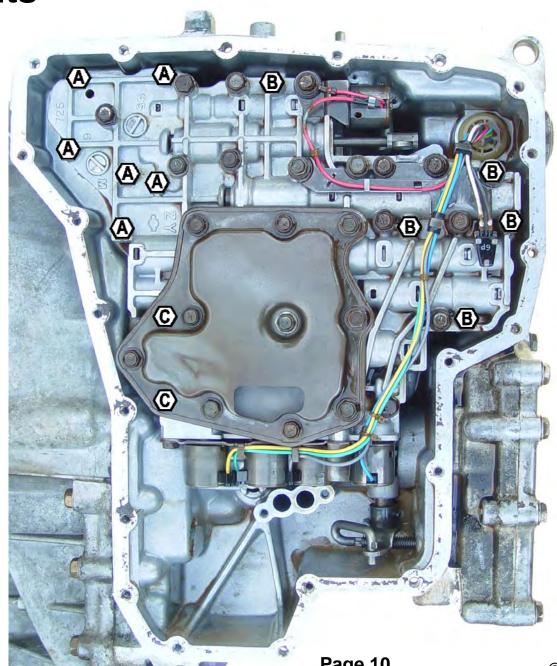


## **VB** to Case Bolts

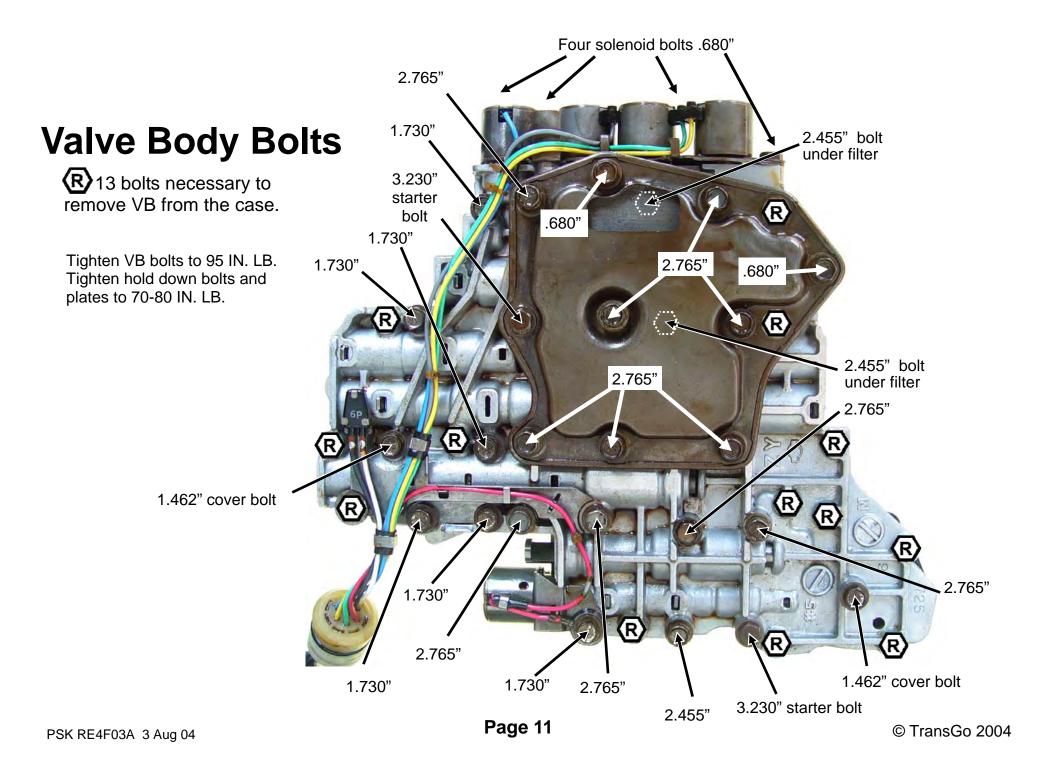
"A" Six bolts 1.455""B" Five bolts 1.725""C" Two bolts 1.885"

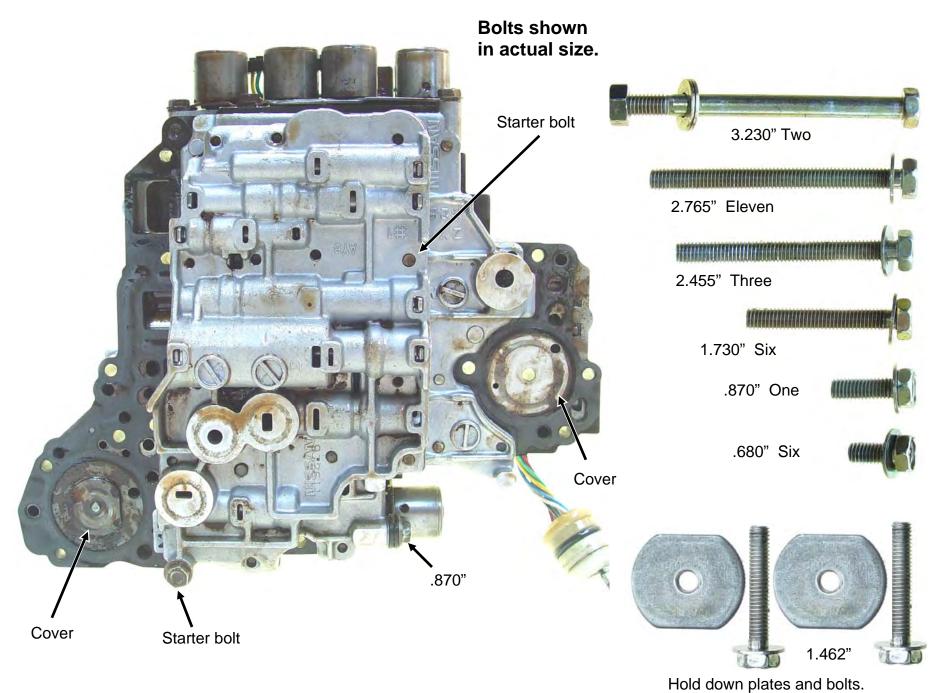


Tighten VB bolts to 95 IN. LB. Pan bolts to 65-80 IN. LB. Drain plug to 25 FT. LB.



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