RL4F03A-HD2 Reprogramming Kit™

Front Drive Nissan- with TV Cable **Sentra** 91-99 **NX** 92-93 **200SX** 95-98 **G20 Infinity** 91-93

Corrects/Reduces/Prevents

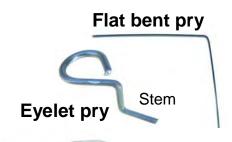
No 3rd after a 3-2 or 4-2 kickdown.

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

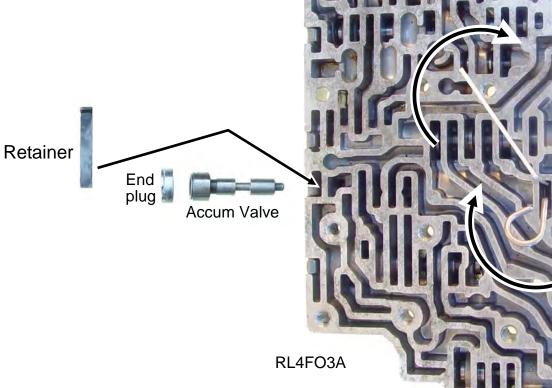
Corrects Soft 1-2. Long 2-3 at heavy throttle. Firmer 4th & Lockup.

Nissan never shifted this good, until now.





LISTEN UP: If trans is out of vehicle do page 5 first.



Step 1: Remove Retainers. With sand paper remove sharp edges where retainer was against bore.

Step 2: Insert flat bent pry between the end plug and accum piston. Push piston inward away from the end plug far enough to insert the stem end of eyelet pry.

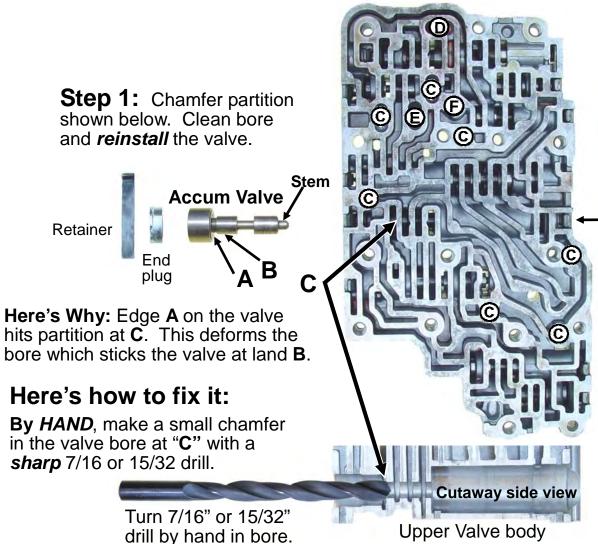
Retainer End plug

Step 3: With eyelet pry push end plug GENTLY in various places to remove it. Then Remove 2nd accum piston, spring and washer shown on page 2A.

Then push accum valve and end plug out from this side of body with a skinny punch.

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Upper Valve Body



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 the remaining parts as shown below.

You're going to love the 1-2 shift.

Washer Piston End plug
ORANGE ORANGE WHITE
Retainer

For **extra firm** 1-2 shift do not install small **ORANGE** spring.

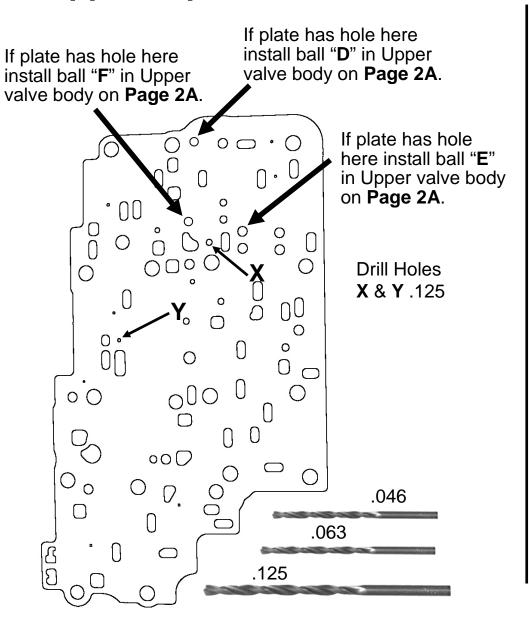
Checkballs: Steel .214 to .218 © All models.

D E & **F** Are model dependent, see the small plate on **Page 2B** to determine the correct positioning.

Don't use plastic balls.

Kit may have two spares.

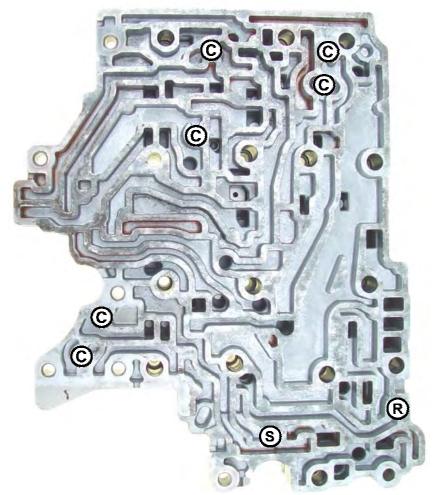
Upper Separator Plate



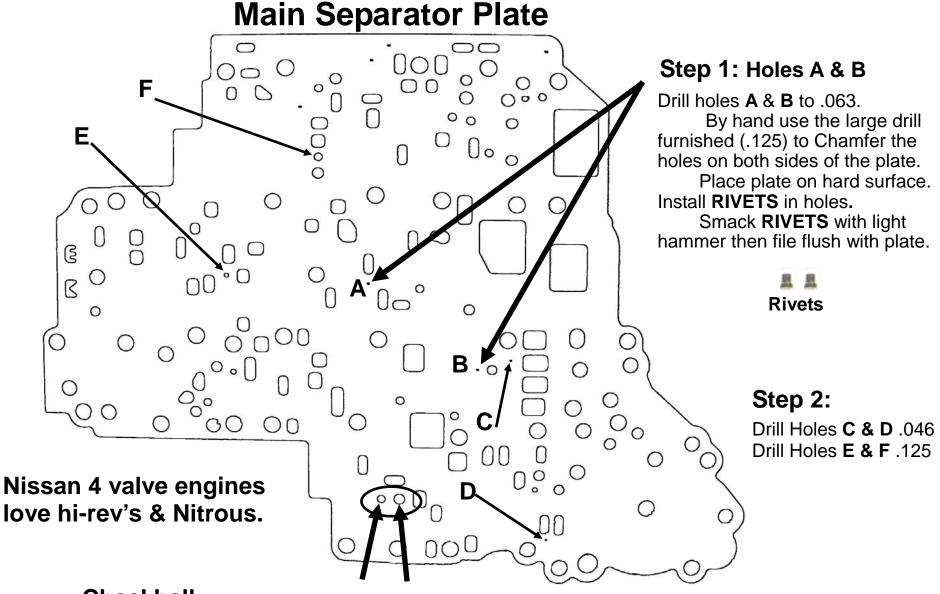
Channel Casting

Checkballs: Steel .214 to .218 © All models.

R & S Are model dependent, see the Main plate on Page 3B to determine the correct positioning.



Page 3A



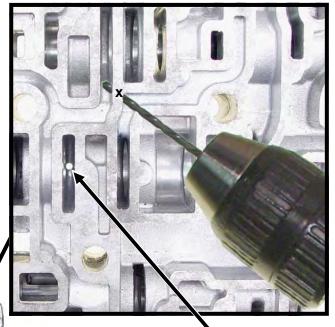
Checkball If both holes are the same size, then install ball "R" on Page 3A. If the hole on the left is smaller, then install ball "S" on Page 3A.

Main Valve Body

1 Enlarge the limit drain holes with 1/4 drill. Then install the two **ORANGE** springs and two .265 diam **Steel balls** furnished.

Steel balls 0 .265 diam

ORANGE



5. At the angle shown, drill a .063 hole thru partition under the "X".

4. Drill a .063 hole **straight down** into this passage through bottom of valve body.

3 Remove boost bushing, valves, pressure regulator spring & valve. Reinstall after drilling VB casting.

Pressure regulator valve & spring. Boost valves & bushing.

Reinstall

TV plunger



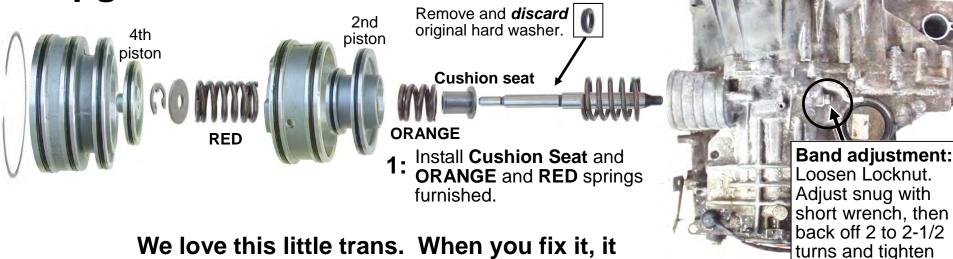
Plunger Bushing.

Pull TV Plunger out of valve body far enough to replace original bushing with New Plunger Bushing furnished.

Reinstall keeper just below flush with trans jel.

Not necessary to remove inner valve.

Upgrade 2nd Piston



We love this little trans. When you fix it, it will work as good as it always wanted to.

Gil

Do step 3 if the trans is out of car.

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

3: 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
Wire Seal
3-4 Piston

the lock nut.

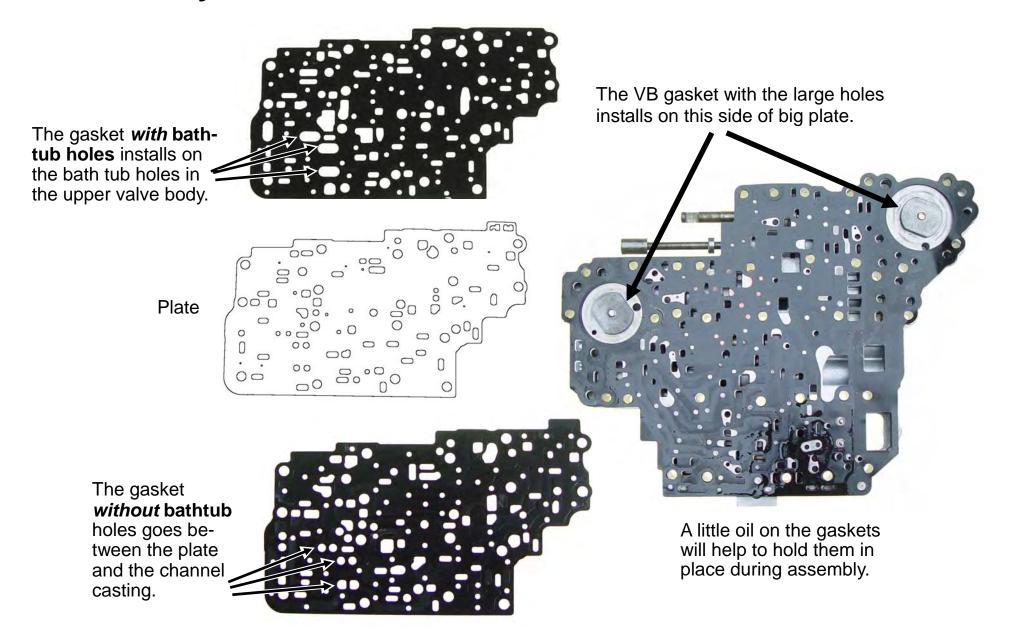
Use 14mm wrench

and T30 TORX bit.

Page 5

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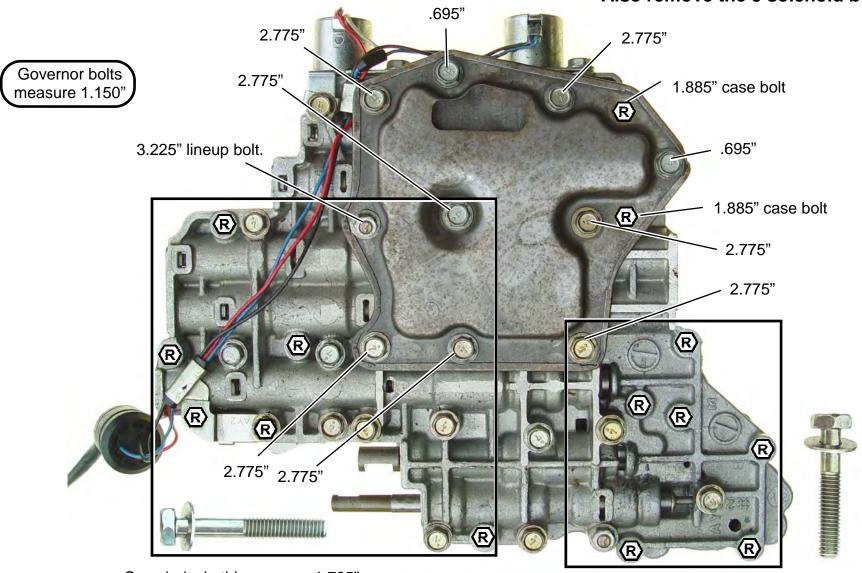
Valve Body Gaskets



Page 6

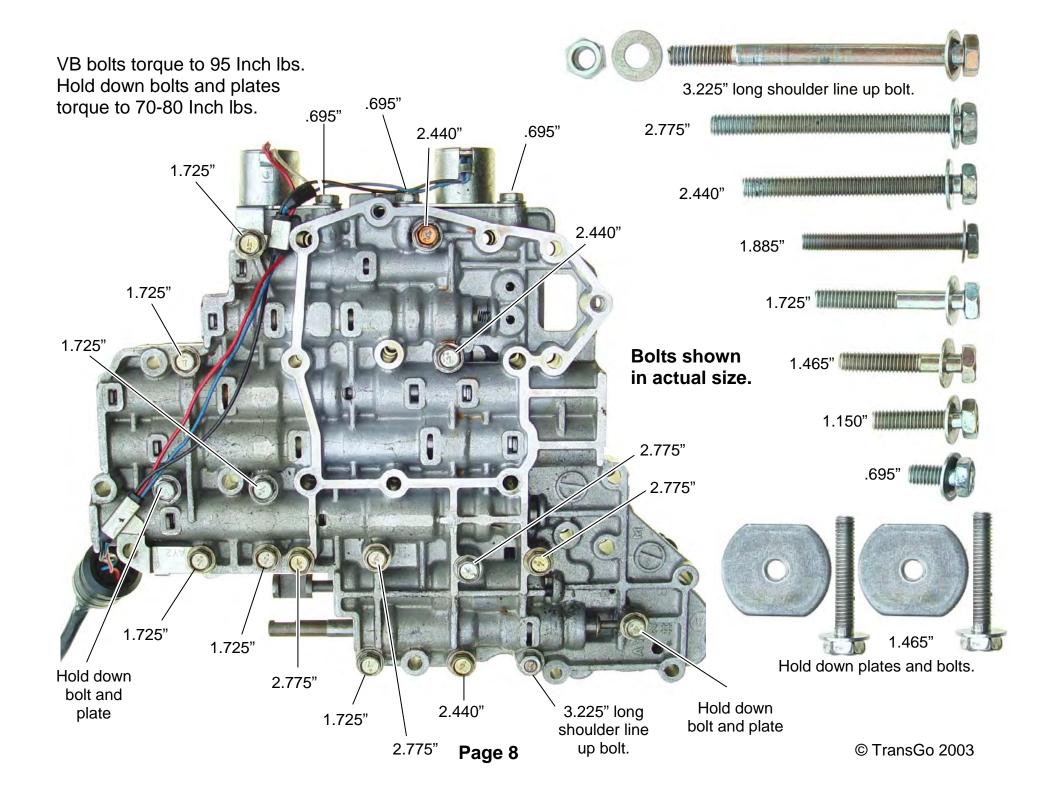
Valve Body Bolts

14® bolts are the ones necessary to remove the valve body from the case. Also remove the 3 solenoid bolts.



Case bolts in this area are 1.725"

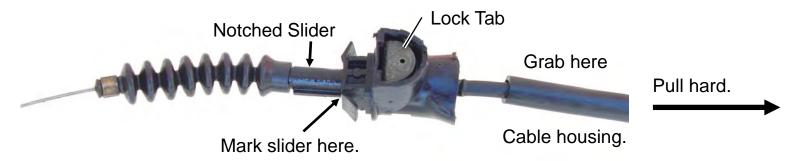
Case bolts in this area are 1.465"



Throttle Arm and TV Cable Adjustments

Step 1: Have someone floors the gas pedal inside the car. The throttle arm must bottom against the wide open stop. Adjust as needed.

Step 2: While someone is holding the gas pedal floored, push down on lock tab, and at the same time grab the cable housing and pull it in the direction of the arrow, really hard, and then release the lock tab.



Note: If adjustment was not disturbed it is probably OK.

This adjustment gives you max trans pressure, and full throttle when the gas pedal is floored.

Check adjustment like this:

Accelerate to 20 to 22 mph and lift foot off gas pedal. This will place the trans in 2nd or 3rd gear. Then floorboard the gas quickly. The trans must downshift into 1st gear.

If it does not downshift into 1st gear mark the slider with a pocket knife or hack saw blade. Then push the lock tab and move the slider one notch at a time, towards the lock tab, until it does downshift into first at 20 to 22 when gas pedal is floored.