RE4R01A Shift Kit®

Nissan/Infinity--RE4R01A--RL4R01A Subaru--ATAXLE--R4AXEL--XT 4Sp

Mazda--R4AEL

Also fits Large Geartrain Units Infinity V8--RE4R03A & Isuzu JR403 Reduces/Corrects/Prevents

Direct clutch [3rd] burnup -- 2-3 Cutloose Long soft 3rd. Planet burnup -- Long, soft or slide 1-2 -- band failure -- Long 3-4 Lube failure, overheat and total burnup.

Listen Shop Owner: Even with a new radiator, this trans does not have adequate cooling or flow. Install at least a14,000 lb GVW multilayer or multitube cooler and forget the radiator.

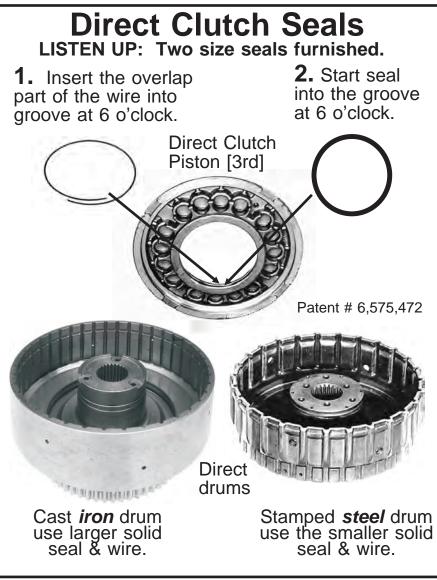
Planetary sets aren't FREE.

Each day your key tech person spends working on one that won't ship or is back for rework, reduces shop volume about \$1000, plus the parts.

TECHNICIAN: Start on page 2 then come back to this page when trans is apart on the bench. This is a Coordinated Upgrade. Please do not do any other "Tech" you've heard about.

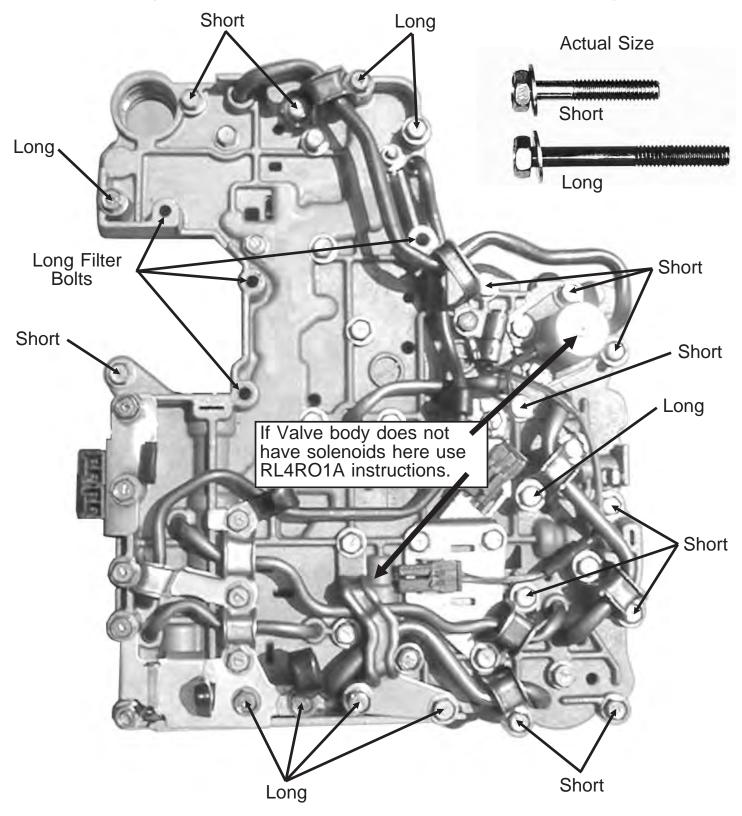
SUBARU-- Front Seal Leak or Blowout: Enlarge drainback hole under front seal with .180 to .196 [3/16"] drill. Follow the passage to the cast iron pump support and enlarge the casted hole on the rear side of the support with 1/4" drill. Install the seal just deep enough to make four small stakes to hold it in. Best to use NOK seal.

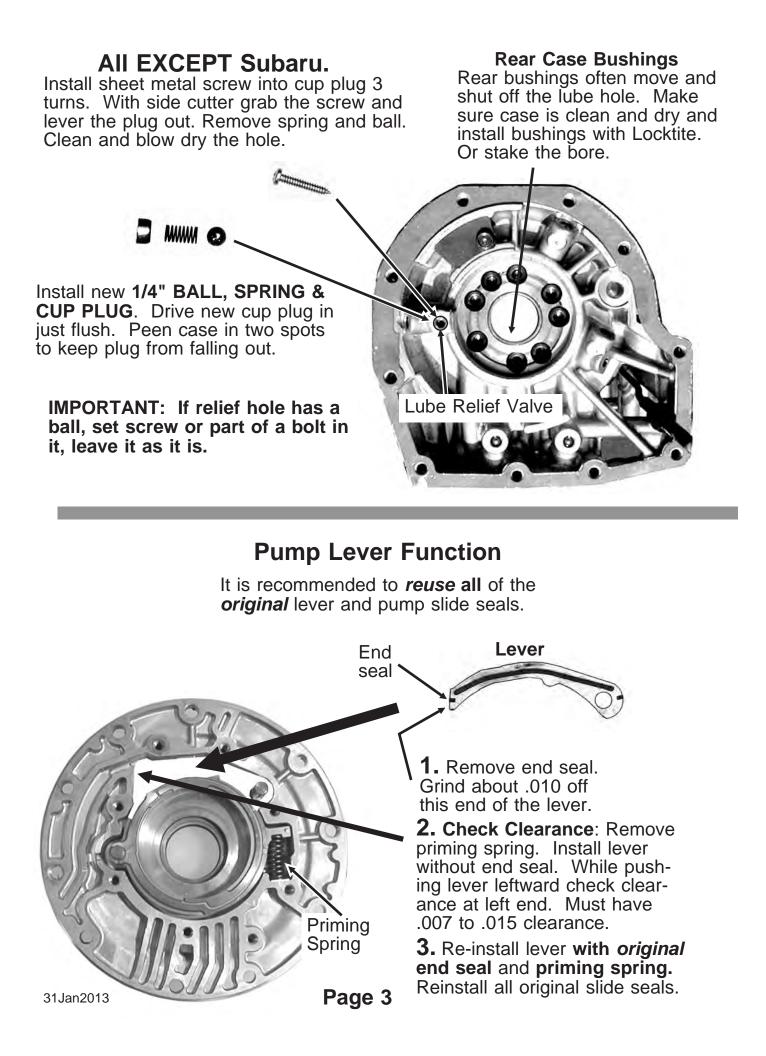


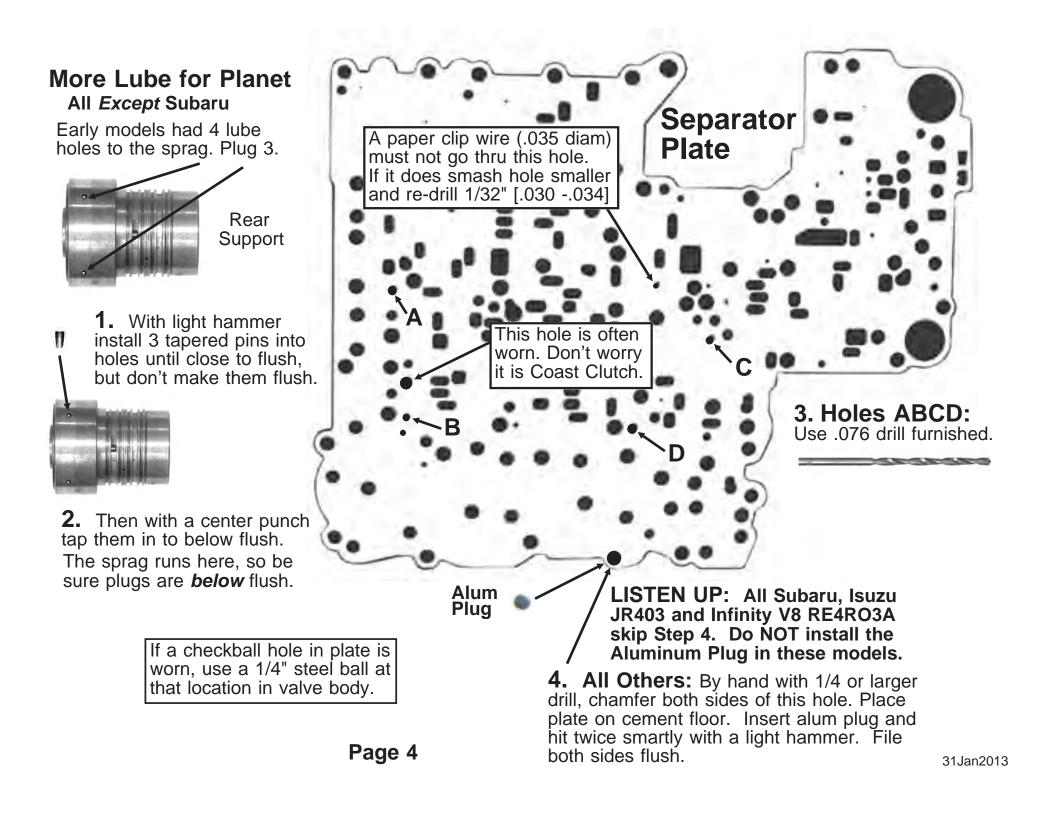


RE4R01A Valve Body Removal and Installation

Save a big headache: There is no need to remove the tubes at any time. Only remove the bolts shown on this page to remove valve body. When going back together use this photo for bracket locations and bolt lengths.







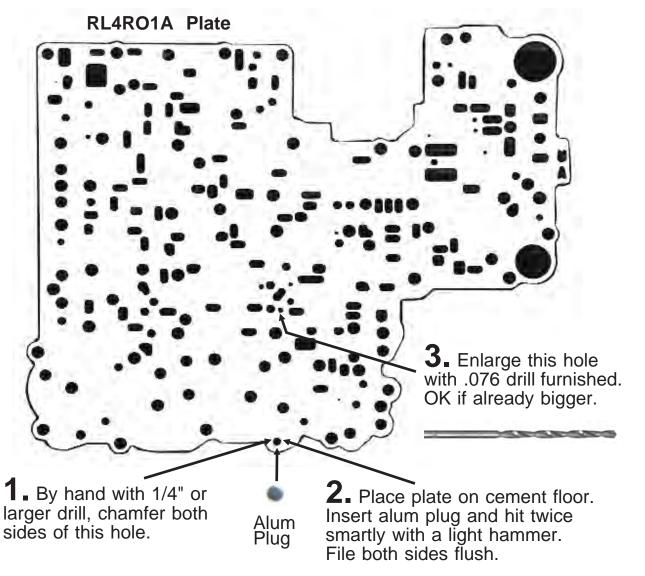
TO install this kit in: RL4R01A 1990up 2.4L 4 Cyl Nissan Pickup and Pathfinder Follow these instructions:

A. Install direct clutch inner seal as shown on page 1.

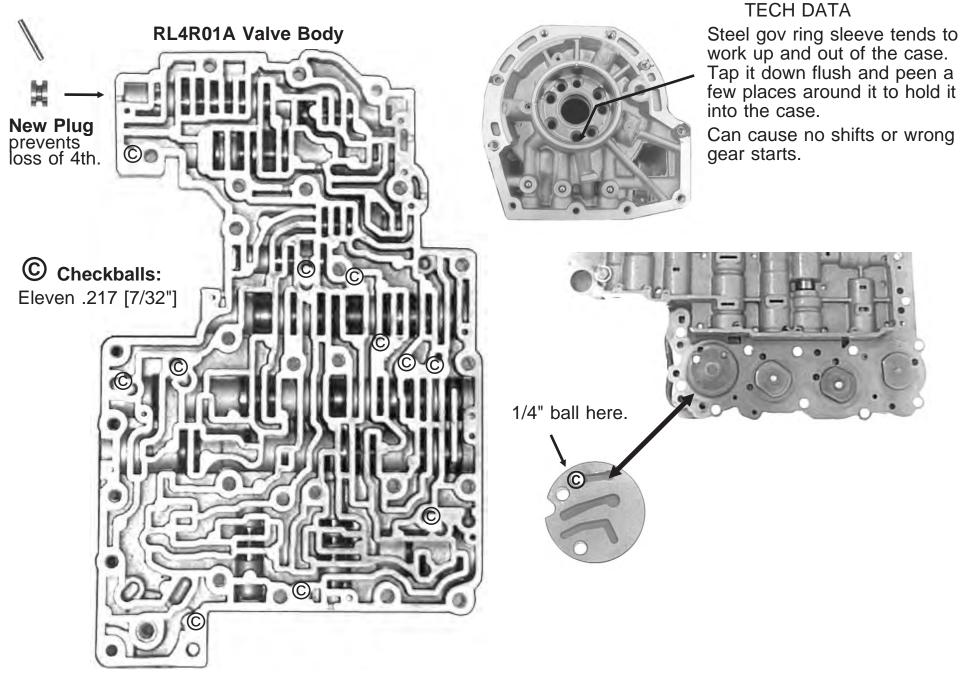
- B. Skip page 2
- C. Do all of page 3.
- D. Page 4. Steps 1&2 only.
- E. Skip page 5.
- F. Do all of page 6.
- G. This page, Steps 1, 2 & 3.

H. Do the valve body changes on the backside of this page.

RL4RO1A Trans has TV cable and Governor. VB doesn't use gaskets.



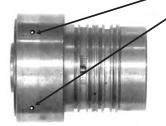
RL4R01A Page 1



RE4R03A & JR403: Use this sheet for pages 4 and 6. Nissan V8's and Izusu Diesel

More Lube for Planet All Except Subaru

Early models had 4 lube holes to the sprag. Plug 3.



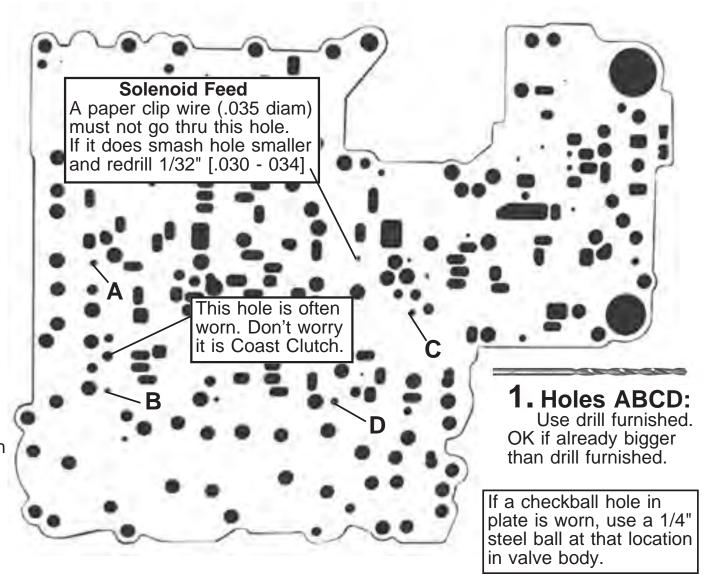
Rear Support

1. With light hammer install 3 tapered pins into holes until close to flush, but don't make them flush.

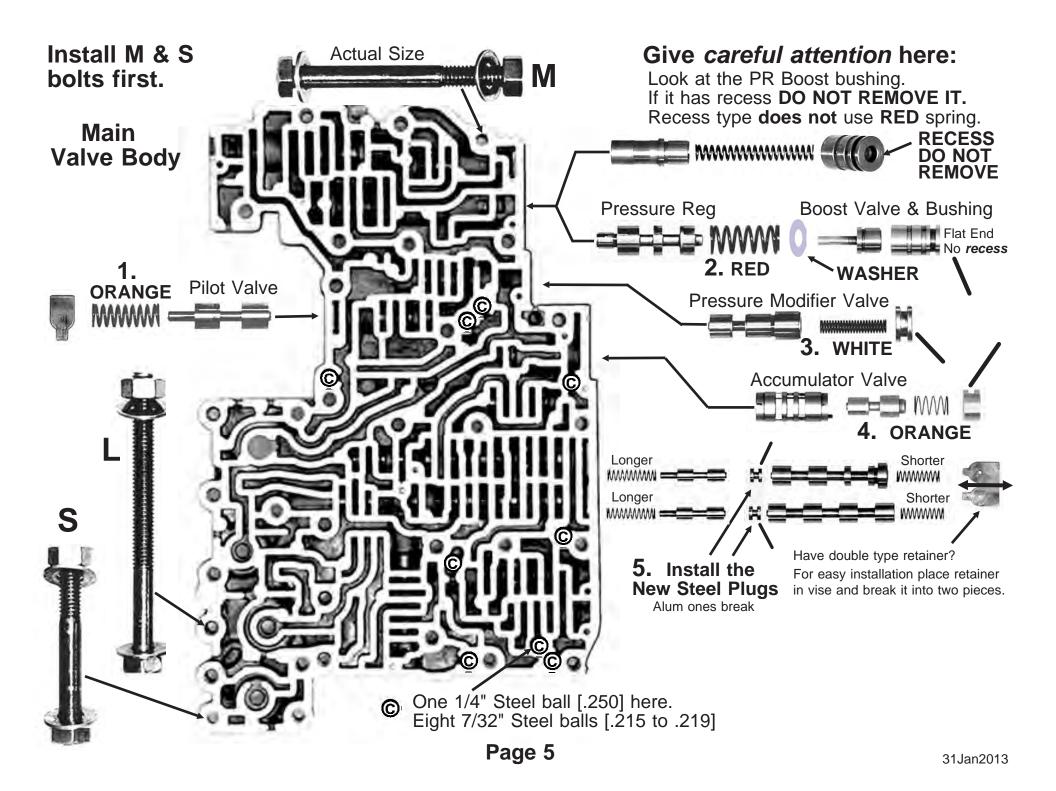


2. Then with a center punch tap them in to below flush. The sprag runs here, so be sure plugs are below flush.





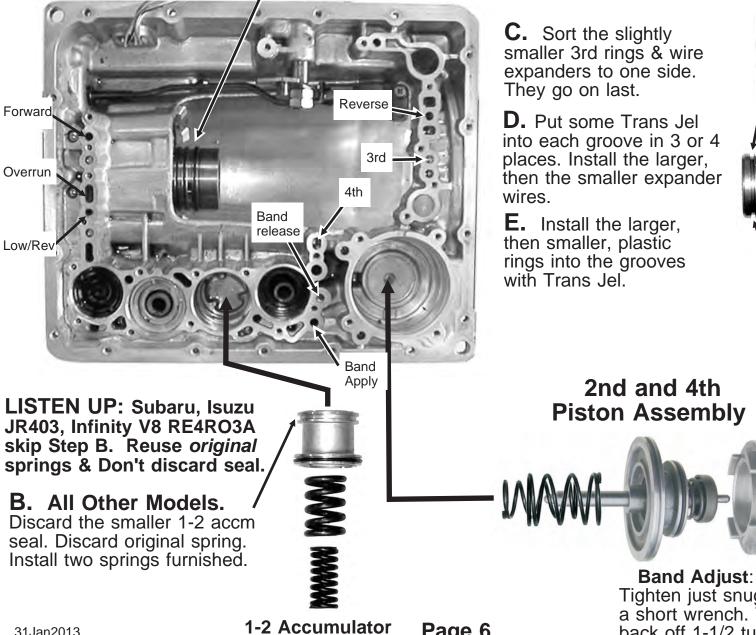
Page 4 Over for page 6



Custom Rings & 1-2 Accumulator

A. Install 4 rear support rings with Vaseline or Trans Jel. No expander wires.

Stator Rings--Pat Pending





Page 6

Tighten just snug with a short wrench. Then back off 1-1/2 turns.

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RE4R03A and JR403 Nissan V8 and Izusu Diesel

A. Install 4 rear support rings with Vaseline or Trans Jel. No expander wires.

Stator Rings Pat Pending

C. Sort the slightly smaller 3rd rings and wire expanders to one side. They go on last.

D. Put blob of Vaseline or Trans Jel into each groove in 3 or 4 places. Install the larger, then the smaller expander wires.

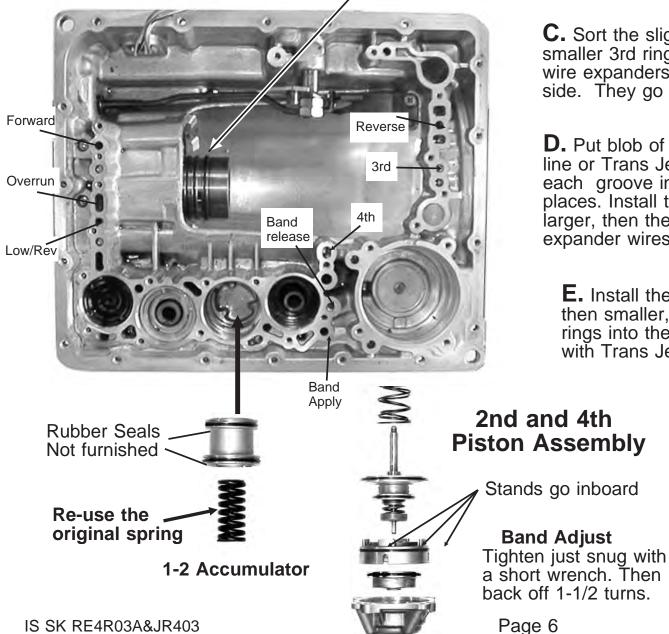
E. Install the larger, then smaller, plastic rings into the grooves with Trans Jel.



LISTEN UP: This setup may not air check very well, but it works great in the vehicle. "You're going to love the road test. Your customer will KNOW you FIXED it." "Thanks for listening."

Gil

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Additional Info

About This Trans

This kit does a lot, but there are other things that need your care. ORIGINAL FAILURE and COME-BACKS are, gear train burnup, and 3rd or Forward clutch failure.

CAUSES

1. Lockup plate shreds and plugs up radiator, filter and/or screens.

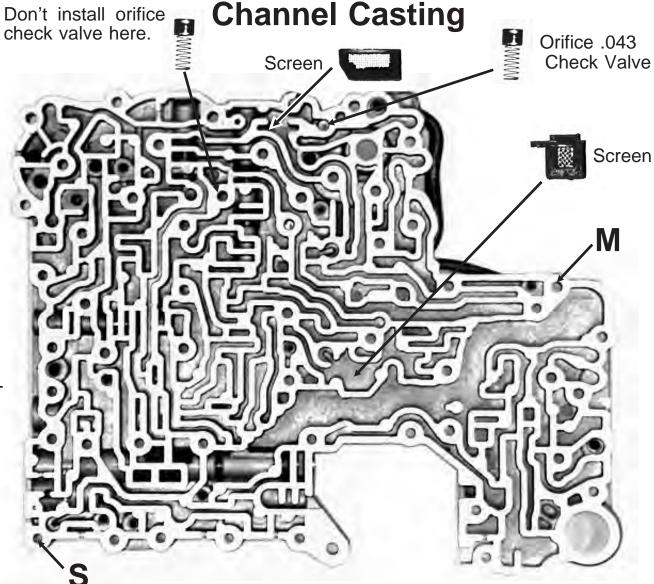
2. Cooler return relief valve stuck or plugged off [kit fixes].

3. Inner 3-4 clutch seal leaks. Burns clutch, clogs filter and screens and radiator cooler tube.

4. Shrunken rings have same result as clutch seal leak. Burns friction, then stops up filter, screens or radiator. Oops to planet gears.

5. **Listen up:** This trans will not stand clutch plate or lockup plate shedding or fuzz. It plugs, filter and screens causing low line and complete burnup, including the planetary gears.

6. Even with a new radiator this trans does not have enough cooling—and it stops up way too easy. ALWAYS add a **multi-tube cooler** and forget the radiator.



Assembly: Insert bolts at M and S. Stick channel gasket & VB gasket to the separator plate with some oil. While holding the separator plate and gaskets against the channel casting, turn it over carefully, set it on valve body.