

## RE4R01A-HD2 *Reprogramming Kit*<sup>™</sup>

Short-Crisp high throttle upshifts with "Class" Performance & Durability.

Nissan/Infinity RE4R01A--Subaru ATAXLE, R4AXEL, XT 4Sp--Mazda R4AEL Also fits Large Geartrain Units Infinity V8--RE4R03A & Isuzu JR403

## This is not a *"do it yourself"* kit. This is for the experienced, professional *TRANS MECHANIC* only.

### If trans is removed do pages 10,11 & 12 first.

About This Trans:

This kit does a lot, but there are other things that need your care. ORIGINAL FAILURE and COMEBACKS 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 mulitube cooler and forget the radiator.















### **Band adjustment:** Accumulators in the Case Tighten adjuster snug with short wrench. Back off 1-1/2 turns, then tighten lock nut. Case view in vehicle from the drivers side. N-R/3-4 Step 1 Reuse **1-2 Accumulator** Reuse Remove and discard seal from small end of 1-2 accum piston. N-D Install **ORANGE** spring. 2nd-4th Piston 2-3 Accumulator styles vary. LISTEN UP: Reinstall as it came apart. Remove and Small end discard seal. 1-2 Large end Reuse ≥

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Reuse

ORANGE

**EXCEPT Subaru** 

LOOK: Make sure the gasket isn't blown out.

### If Trans is in vehicle skip this page.

### 1. Rear Support

If rear support has Four lube holes, install Plugs in three of them. Tap the Plugs in *almost flush* with hammer. Use Center Punch to tap Plugs below flush.



**3.** Identify Direct Drum Type. Open pack

Match Seal & Wire size to drum type below.

Seals actual size

with Large and Small, Seals and Wires.

# If Trans is still in the vehicle skip this page.

### 2. Pump Stator Rings

Install **Wire Expanders** into the ring groove with some Vaseline. Install **Rings** with the cut end *opposite* gap end of wires. SMALL LARGE

Wires

Gap end.

#### **1.** Pump Lever Function



## If Trans is in vehicle skip this page.

Lube Relief Valve LISTEN UP: All models EXCEPT Subaru. Do Step 1 & 2 if original cup plug looks like this. If relief hole has ball, set screw or part of bolt in it, leave it as is.



**Additional Information** LOOK: Rear Case Bushings

Inspect bushings. They often move which shuts off lube hole. If replacing, make sure case is clean and dry. Install bushings with Locktite or stake them into bore.

**1.** Install a sheet metal screw into cup plug three turns. With side cutter grab screw and pry plug out. Remove spring & ball. Clean and blow dry the hole.

**2.** Install 1/4" **Ball**, **WHITE spring** and Cup Plug. Drive new cup plug in just flush. Peen case in a couple spots to keep plug from falling out.

### **Oil Coolers**

Even with new radiator, this trans does not have adequate cooling or oil flow. Install a 14,000 lb GVW (or larger) multi-layer/tube oil cooler and forget the radiator.

Planetary sets aren't FREE.

