

NISSAN RL4R01A NO 2ND GEAR AFTER REBUILD

COMPLAINT: After rebuild, the vehicle starts off in first gear, skips second and shifts to third, and then on to fourth gear. The shift pattern is 1-3-4.

CAUSE: cause may be a missing checkball located in the side plate as shown in Figure 1. This checkball location is overlooked because ALL factory manuals fail to show where it belongs. When this checkball is omitted, 2nd gear apply oil is allowed to enter the 4th apply circuit, and exhaust past the 4-2 sequence valve.

Another cause may be the 2-4 servo mis-assembled. When the servo piston retainer is installed with the "Castle Notches" facing the servo piston, the 2nd gear feed holes to the servo piston become mis-aligned and all 2nd gear apply oil is exhausted (See Figure 2).

CORRECTION: Install a .220" diameter, steel checkball into the side plate location, as shown in Figure 1. Install the servo piston retainer onto the servo piston with the "Castle Notches" facing the servo cover as shown in Figure 3.

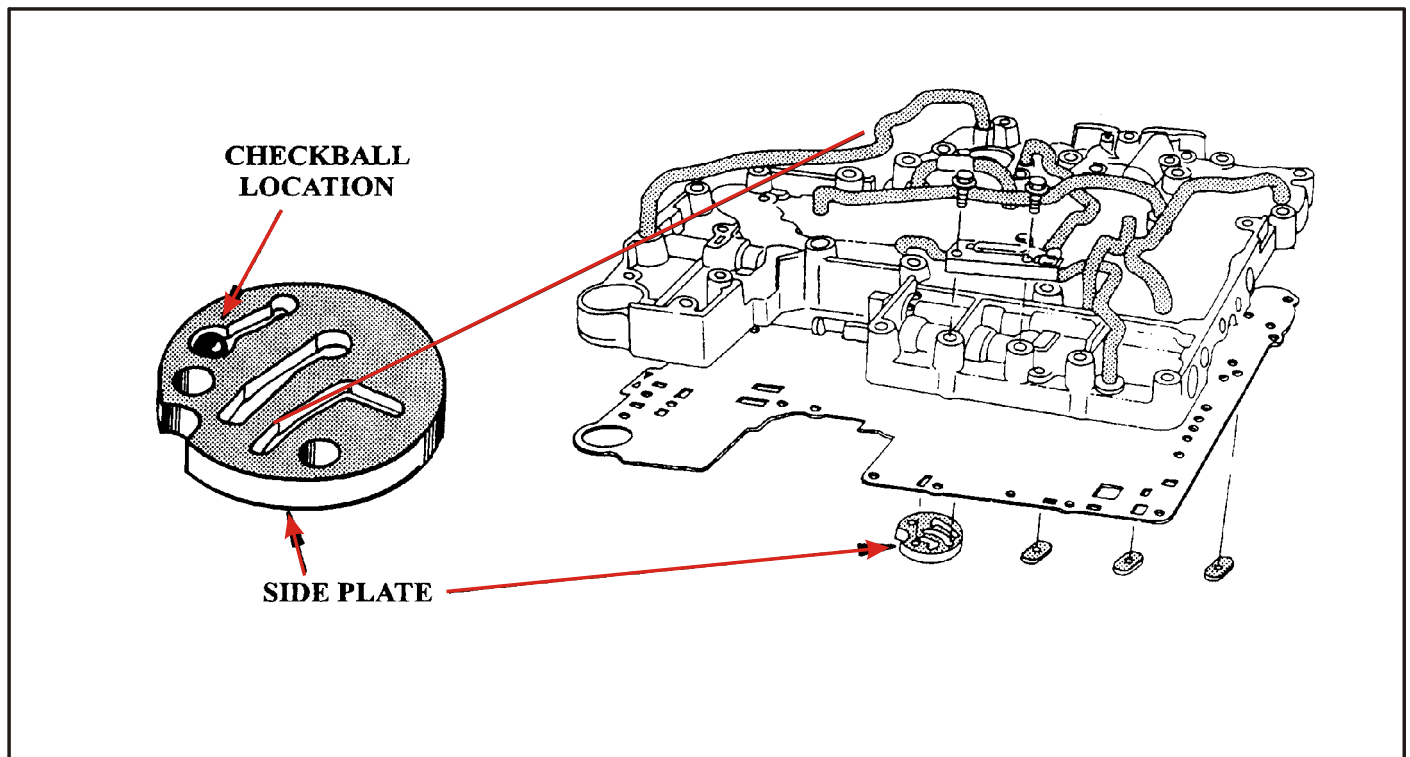
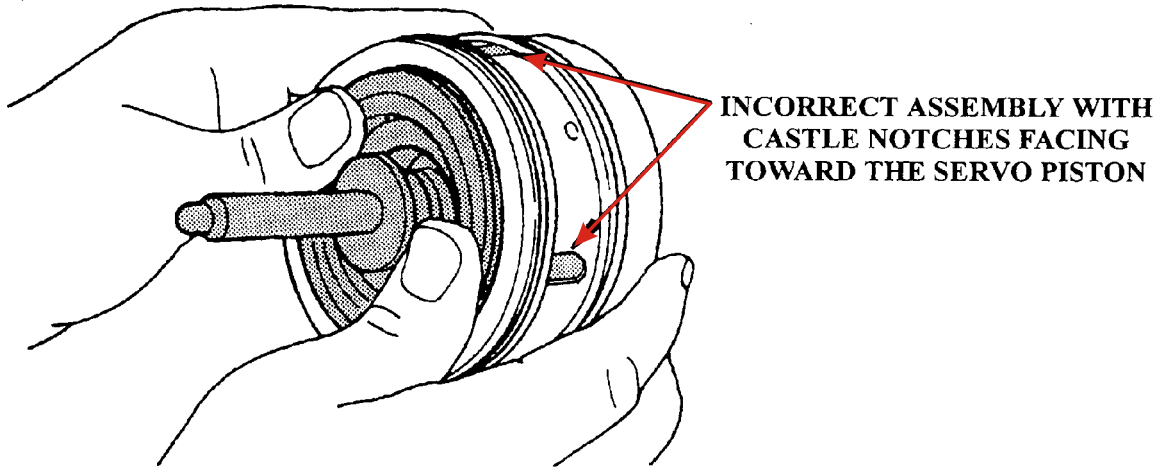


Figure 1

INCORRECT ASSEMBLY



CORRECT ASSEMBLY

