



Applies To: **1996-00 Civic** – See VEHICLES AFFECTED
1997-99 CR-V – ALL

July 2001

Harsh Shifting Automatic Transmission (Supersedes 00-012, dated May 2000)

SYMPTOM

The transmission shifts harshly, or it may stay in first gear. The harsh shifting is more noticeable on the 1-2 and 2-3 upshifts under light throttle. It is not affected by operating temperature. The MIL may be on with DTC 70 stored.

PROBABLE CAUSE

Contamination of the linear solenoid and its associated passages inside the transmission, or a broken spring internal to the transmission.

VEHICLES AFFECTED

1996-99 Civic – All with A/T (except HX with CVT)
2000 Civic

KK:

4-door – From VIN 1HGEJ....YL500001 thru 1HGEJ....YL500419

2-door – From VIN 1HGEJ....YL500001 thru 1HGEJ....YL500043

KX:

4-door – From VIN 1HGEJ....YL900001 thru 1HGEJ....YL902554

2-door – From VIN 1HGEJ....YL900001 thru 1HGEJ....YL900961

KG, KE:

2-door – From VIN 1HGEJ....YL600001 thru 1HGEJ....YL600888

CORRECTIVE ACTION

Flush the transmission with Honda ATF-Z1, then replace the linear solenoid. If shift feel is not affected, replace the transmission.

PARTS INFORMATION

Linear Solenoid Assembly: P/N 28250-P4R-315

Drain Bolt Washer: P/N 90471-PX4-000

REQUIRED MATERIALS

Honda ATF-Z1: P/N 08200-9001

Civic and 2WD CR-V – 11.6 quarts required

4WD CR-V – 12.4 quarts required

WARRANTY CLAIM INFORMATION

In warranty: The normal warranty applies.

Description	FRT
Replace linear solenoid	0.3
Flush transmission	0.8
Test-drive	0.3

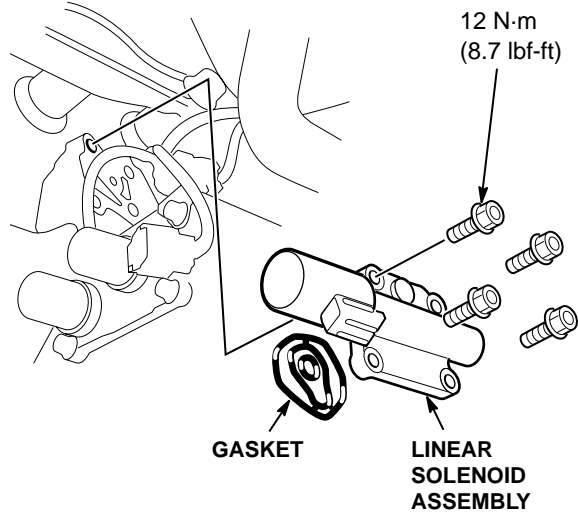
Failed Part: P/N 28250-P4R-315

Defect Code: 031

REPAIR PROCEDURE

1. Raise the vehicle on a hoist.
2. Drain the transmission. Refill it with Honda ATF-Z1.
3. Start the engine.
4. With your foot on the brake pedal, shift the transmission to D₄.
5. Release the brake pedal. Press on the accelerator, and bring the speedometer up to 50 mph. Make sure the transmission shifts through the first three lower gears and into fourth, and that the torque converter locks up.
6. Apply the brakes to stop the front wheels.
7. Shift to reverse, and then to neutral.
8. Repeat the shifting procedure (steps 4 through 7) four more times.
9. Turn off the engine.
10. Repeat the above drain, refill, and shifting procedure (steps 2 through 9) two more times.
11. Drain the transmission. Reinstall the drain bolt with a new washer. Refill the transmission with Honda ATF-Z1.

12. Disconnect the linear solenoid electrical connector. Remove the mounting bolts, then remove the linear solenoid.



13. Inspect the linear solenoid mounting surface on the transmission. Remove any contamination.
14. Install the new linear solenoid. Reconnect the electrical connector.
15. Erase any DTCs in the powertrain control module (PCM).
16. Test-drive the vehicle to check the shift feel. If it still shifts harshly, install a new transmission.