



## Shudder Up To 15 MPH (Drain and Burnish)

Applies To: 2003-2005 Civic Hybrid CVT

A shudder or judder when accelerating from a stop to about 15 MPH can be caused by the CVT start clutch. Perform the following CVT fluid drain and start clutch burnishing procedure:

Check the CVT fluid level and inspect for damaged or broken motor mounts, then test drive to verify the shudder. If you feel a shudder on acceleration, disconnect the EGR valve while on the test drive. If the shudder is gone with the EGR disconnected, proceed with normal EGR troubleshooting procedures. If the shudder persists with the EGR disconnected, use the following drain and burnish procedure:

1. After the test drive, raise the vehicle, remove drain plug and drain the CVT fluid. Refer to page 14-217 of the 2003-2005 Civic Hybrid Service Manual for additional information.
2. Clean the drain plug magnet, install a new sealing washer on the drain plug and tighten to 36 lb-ft.
3. To prevent contaminating the transmission, clean the area around the filler hole and use a clean funnel. Refill the transmission with 3.1 US qt. of CVTF (Continuous Variable Transmission Fluid, P/N 08200-9006 H/C 8031437). Set the level between the upper and lower COLD marks.
4. Raise the vehicle so the wheels are off the ground, start the engine, shift to D and accelerate to 40 MPH.
5. Release the throttle, then lightly apply the brakes until the wheels stop.
6. Shut the engine OFF and check the CVT fluid level within 60 to 90 seconds. Adjust the CVT fluid level between the HOT upper and lower marks. Set the parking brake, block the front wheels, then start the engine and shift to D position with the A/C OFF.
7. Firmly press the brake pedal, then depress accelerator to the floor. Release the accelerator after 5 seconds (do not move the shift lever at high RPM).
8. Shift to neutral, increase engine speed to 3,000 RPM and hold for 15 seconds to cool the start clutch.
9. Repeat steps 7 and 8 in D then and again in N.
10. Test-drive the vehicle for at least one mile to confirm that the judder is gone.
11. While on the test drive, turn the headlights ON and calibrate the start clutch by decelerating from 40 MPH to 20 MPH without using the brakes. If you cannot perform the test drive calibration, refer to page 14-214 of the Service Manual and perform the HDS Start clutch pressure control calibration procedure.
12. If the judder persists, repeat steps 1 to 12. If the judder persists after performing this procedure twice, refer to the article below and replace the start clutch.