ACURA Service Bulletin



April 8, 2005

Applies To: 2001–03 3.2CL (including Type S) – ALL 2000–03 3.2TL (including Type S) – ALL 2004 TL – From VIN 19UUA66..4A000001 thru 19UUA66.4A014224

Safety Recall: CL and TL Automatic Transmission 2nd Gear Inspection

(Supersedes 04-020, Safety Recall: CL and TL Automatic Transmission Second Gear Inspection, dated November 10, 2004)

BACKGROUND

Certain operating conditions can result in heat buildup between the countershaft and secondary shaft 2nd gears in the A/T. Without enough oil flow to dissipate heat, prolonged operation under these conditions can eventually result in decreased material strength. In higher mileage vehicles, this can result in gear tooth chipping or, in very rare cases, gear breakage.

In most cases, A/T noise will indicate a problem, however it is possible for the A/T to become locked without warning. A locked A/T could result in a crash.

CLIENT NOTIFICATION

All owners of affected vehicles will be sent a notification of this recall. There is a client letter example at the end of this bulletin.

Not all vehicles within the VIN ranges are affected by this recall. Before starting work on a vehicle, make sure it is eligible by checking for one or more of these items:

- The client has a notification letter.
- The vehicle is listed on your campaign responsibility report.
- The vehicle is noted as eligible when you do a VIN status inquiry on the interactive network (*i*N).

Besides checkiing these items, also check for a punch mark above the 12th character of the engine compartment VIN. A punch mark there means the A/T has already been inspected and repaired.

Some vehicles affected by this recall may be in your new or used vehicle inventory. *According to federal law, these vehicles cannot be sold or leased until they are repaired*. Before selling a vehicle, do a VIN status inquiry to check if it is affected by this recall.

CORRECTIVE ACTION

Do a VIN status inquiry on the *i*N. If there is a **C** to the right of **S/B: 04-020** on the **VIN STATUS INQUIRY** screen, return the vehicle to your client. The vehicle has an updated, remanufactured A/T from a previous repair. These A/Ts have been internally modified to provide sufficient lubrication for 2nd gear. From the outside, they look the same as other remanufactured A/Ts. Doing a VIN status inquiry is the only way to tell if the A/T has this modification. If there is no **C** shown, do this corrective action based on the vehicle's mileage:

Vehicles with 15,000 miles or less:

Install an A/T Oil Jet Kit.

Vehicles with more than 15,000 miles:

Do a photographic inspection of 2nd gear:

- Use the digital camera and camera mount in the A/T Gear Inspection Kit to take five clear photos of 2nd gear through the countershaft speed sensor hole.
- Load your photos onto an *i*N workstation, then view them on the workstation monitor.
- Compare the gear color in your photos with the gear colors in the *Automatic Transmission Gear Inspection Guide* packaged with the camera.
- If you decide that the gear color in your photos matches condition level #1 in the inspection guide, then install an A/T Oil Jet Kit.
- If you decide that the gear color in your photos matches any condition level other than #1 in the inspection guide, submit a completed A/T order form, with your digital photos attached, to the RPO Tech Line. They will either cancel your order and direct you to install an A/T Oil Jet Kit, or they will process your order so you can install a remanufactured A/T.
- If you order a remanufactured A/T for a 3.2CL or 3.2TL, you may get an updated PCM and you may also get a new fuel pressure regulator (shipped separately). Make sure you complete the repair by installing the updated PCM, the fuel pressure regulator (if sent), and the remanufactured A/T at the same time.

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CLIENT INFORMATION: The information in this bulletin is intended for use only by skilled technicians who have the proper tools, equipment, and training to correctly and safely maintain your vehicle. These procedures should not be attempted by "do-it-yourselfers," and you should not assume this bulletin applies to your vehicle, or that your vehicle has the condition described. To determine whether this information applies, contact an authorized Acura automobile dealer.



PARTS INFORMATION

NOTE: Even though they look similar, A/T Oil Jet Kits are *not* interchangeable; the diameter of the oil jet differs between models. Make sure you use the correct kit.

A/T Oil Jet Kit (3.2CL and 3.2TL):

P/N 06250-P7W-305

(Includes an oil jet, oil jet line with bracket, oil jet hose, ATF filler plug adapter and sealing washer, two O-rings, and three hose clamps)

A/T Oil Jet Kit ('04 TL):

P/N 06250-RDG-315

(Includes an oil jet, oil jet line with bracket, oil jet hose, ATF filler plug adapter, three sealing washers, one O-ring, three hose clamps, and two vacuum line clips)

TOOL INFORMATION

A/T Gear Inspection Kit: NOTE: This is the same kit you received earlier to inspect MDX A/Ts.

The kit contains these items:

- Canon Powershot A75 Digital Camera: P/N CNUA75 (Includes Canon Digital Camera Solution Disk Version 17.1 software, USB interface cable, four AA batteries, Compact Flash card, user guide, and guick start guide)
- Two Streamlight flexible white LED flashlights: P/N STL65618 NOTE: Order additional cameras and flashlights

through the Acura Tool and Equipment Program at **888-424-6857**.

- Numbering stamp (order by description)
- Ink pad (order by description) NOTE: Order additional numbering stamps and ink pads either through the Acura Tool and Equipment Program or from other commercial sources.
- Camera mount with bracket, spacer, and storage case: P/N 07AAB-PGHA100
- Color bar stickers: P/N 07AAB-PGHA200 NOTE: Order additional camera mounts and color bar stickers through normal parts ordering channels.
- Automatic Transmission Gear Inspection Guide: Helm Reorder Number E2393. This guide is packaged in the camera mount storage case. Use it to help you decide the gear condition. It includes comparison photos and descriptions of 2nd gear in six condition levels. The gear color determines whether or not you need to replace the A/T. If you need additional guides, call Helm at **800-782-4356**.

WARRANTY CLAIM INFORMATION

OP#	Description	FRT	Template ID
222109	2001–03 3.2CLs and 2000–03 3.2TLs with 15,000 miles or less: Install A/T oil jet kit	0.4	04-020A
222109	2004 TLs with 15,000 miles or less: Install A/T oil jet kit	0.7	04-020B
222110	2001–03 3.2CLs and 2000–03 3.2TLs with more than 15,000 miles: Inspect A/T; install A/T oil jet kit	0.7	04-020C
222110	2004 TLs with more than 15,000 miles: Inspect A/T; install A/T oil jet kit	1.1	04-020D
222114	2001–03 3.2CLs and 2000–2003 3.2TLs with more than 15,000 miles: Inspect A/T; install PCM and remanufactured A/T	6.2	Use a regular claim format
A	Install fuel pressure regulator	0.1	
222111	2004 TLs with more than 15,000 miles: Inspect A/T; install remanufactured A/T	7.2	Use a regular claim format
А	Align front wheels	0.6	

Failed Part:	P/N 23441-P7W-000		
Defect Code:	5CS		
Symptom Code:	P39		
Skill Level:	Repair Technician		

INSPECTION PROCEDURE

NOTE:

- If you are working on a vehicle with **15,000 miles or** less, go directly to **A/T OIL JET KIT** INSTALLATION.
- For questions about camera adjustment, camera mounting, or gear condition, call the RPO Tech Line at **888-997-7278**, and select option #2. *Do not call the Automobile Tech Line.*
- For questions about camera warranty and camera software, call Canon Technical Support at **800-828-4040**. *Do not call the Special Tools Hotline*.
- The system requirements for using the Canon Digital Camera Solution Disk Version 17.1 software are Microsoft Windows 98, Me, 2000, or XP on a PC with built-in USB ports; PC with Pentium 150MHz or higher (Windows 98, Me, or 2000), or Pentium 300 MHz or higher (Windows XP). *This software cannot be used on systems running Windows NT.*
- For a complete description of the inspection procedure, CLICK HERE for an online animated version.
- 1. 3.2 CL and 3.2TL models: Go to step 5.
- 2. '04 TL models: Remove the left side and left rear engine compartment covers.



3. '04 TL models: Unbolt the air cleaner lid, detach the battery cable clips from the lid, then remove the lid and the intake air duct.



4. '04 TL models: Remove the two 10 mm bolts from the under-hood fuse/relay box. Then detach the engine harness clip from the fuse/relay box, and pull the fuse/relay box forward.

5. Clean the area around the ATF filler bolt, the countershaft speed sensor, and the ATF filter line.



- 6. Unplug the countershaft speed sensor 3P connector, and remove the sensor mounting bolt. Gently twist the sensor left and right until it loosens, then remove the sensor and its O-ring.
 - NOTICE

Do not use a screwdriver or pry tool to remove the countershaft speed sensor; you could damage the housing.

 Connect an air nozzle to the shop air supply. Insert the nozzle into the countershaft speed sensor hole, and blow air onto the top of 2nd gear for at least 15 seconds.

NOTE: This step is very important; it removes residual ATF from the gear so you can see it more clearly. Make sure you blow air over the entire top of the gear. Do not use anything but compressed air for this step.



8. Use a clean shop towel to wipe the sensor hole bore.

- Point the LED flashlight at the sensor hole to light up 2nd gear. Use a small, flat-tip screwdriver to scrape across the top of the gear teeth. This will help you get a clearer photo of the gear. NOTE:
 - If the gear teeth are brighter where you scraped them, it is a first sign of gear overheating.
 - The angle cuts near the top of the gear teeth are not a defect in the gear; they are used to identify gears during A/T assembly.



- 10. Ready the digital camera for use. Refer to these sources as needed:
 - The online animated version of the inspection procedure
 - Setting the Digital Camera in the Automatic Transmission Gear Inspection Guide
 - Powershot A75 Digital Camera User Guide
 - Powershot A75 Digital Camera Quick Start Guide

11. Apply a color bar sticker to the base of the camera mount. Set the last six digits of the VIN on the numbering stamp, ink the stamp with the ink pad, and then stamp the VIN onto the color bar sticker.

NOTE: For verification purposes, you need to use a new color bar sticker and the correct last six digits of the VIN for each vehicle you inspect.



- 12. On the camera mount, position the spacer below the bracket.
- 13. Remove the ATF filler bolt.

14. Use the ATF filler bolt to attach the camera mount to the A/T.



- 15. Attach the camera to the camera mount. Be careful not to damage the plastic threads in the bottom of the camera.
- 16. *3.2CL and '3.2TL models:* Detach the throttle cable from the cable bracket on the driver's side of the bulkhead. Before taking any photos, move the throttle cable and the purge control hose out of the way.



- 17. '04 TL models: Make sure the fuse/relay box is out of the way.
- 18. Turn on the camera. Select Manual mode (M), turn on the macro (the flower icon appears in the lower right corner of the display), and set the digital zoom to 6.0x. Make sure the flash is turned on.

NOTE: The digital zoom turns off after **1 minute** if you do not press any buttons.

- 19. Point the LED flashlight at the countershaft speed sensor hole to light up 2nd gear. Keep the tip of the flashlight out of the image area.
- 20. Center the rectangular box in the camera display on the sensor hole, then press and hold the shutter button half way down until the box color changes from white to green. If the box color does not change to green, release the shutter button, and try again.

NOTE: The image in the display will not look as good as the actual photo.

- 21. While continuing to hold the shutter button half way down, turn off the flashlight, and remove it from the area.
- 22. Gently squeeze the shutter button until the camera flash goes off and the image appears on the camera display.
- 23. Repeat steps 19 thru 22 to take five clear photos of the gear. If needed, reposition the camera mount to center your photos.
- 24. Remove the camera from the camera mount.
- 25. Remove the camera mount from the A/T.
- 26. Reinstall the countershaft speed sensor. Torque the bolt to **12 N·m (8.7 lb-ft)**. Plug in the 3P connector.
- 27. Slide the switch on the camera back to ▶ (Play mode). Turn off the camera.
- 28. Load the camera software (Canon Digital Camera Solution Disk Version 17.1) onto an *I*N workstation. For loading instructions, refer to the *Powershot A75 Quick Start Guide*, step 6.

NOTE: If you have any software-related problems, call Canon Technical Support at **800-828-4040**.

- 29. Plug the USB interface cable into a USB port on the back of the workstation and into the digital terminal on the left side of the camera.
- 30. Turn on the camera.

NOTE: The rest of the photo downloading steps are done at the workstation, *not* from the camera.

- 31. When you see the **Camera Window Download Images** screen on the workstation monitor, click on **List Images.**
- 32. Click on the images you want to download to the workstation.

- 33. Click on **Download Image**. The **Download Setting** menu comes up.
- 34. Click on **Create New Folder**. Name the new folder the 17-digit VIN you are currently working on. Click on **Set as new**, then click on **OK**.
- 35. To view a photo, double-click on it. Delete any photos you do not intend to use.

NOTE: All digital photos used for this inspection must be retained at your dealership until further notice. If not, the warranty claim will be rejected. You need at least one good photo per VIN.

36. Use the Automatic Transmission Gear Inspection Guide (Reorder Number E2393) to match the gear color in your photos with one of the gear condition levels in the guide. To ensure a good match, hold the guide next to the monitor. Also, try getting a second opinion from at least one other person.

NOTE: The gear color in your photos should be similar to the color in the inspection guide photos. If your photo colors are not similar, try viewing your photos on a different monitor.

- If you decide that the gear color in your photos matches condition level #1 in the inspection guide, then install an A/T Oil Jet Kit. Go to A/T OIL JET KIT INSTALLATION. For 3.2CL and 3.2TL models, go to step 1, and detach the engine harness clips from the ATF oil line. Then go to step 11 of the procedure. For '04 TL models, go to step 4, and remove the air cleaner. Then go to step 8 of the procedure.
- If you decide that the gear color in your photos matches any condition level other than #1 in the inspection guide, you must send your photos to the RPO Tech Line for review. Go to step 37.
- 37. Bring up the Warranty Automatic Transmission Order form on the *i*N:
 - From the *i*N main menu, click on SERVICE.
 - Cick on Warranty A/T Order.
 - Enter the model and year of the vehicle you are working on, and then click on **Search**.
 - Click on <u>Warranty Automatic Transmission</u> <u>Order</u> to bring up the Warranty Automatic Transmission Order form.
- 38. Fill out all required fields on the form. Required fields have a red dot next to them.

NOTE: For additional information on filling out this form and uploading images to the *i*N, refer to *Quick Start Warranty A/T Order Images*, listed under **Job Aids** in ISIS.

39. In the form's **Service Bulletin 04-013/04-020** field, click on **Yes**.

40. Click on **Image Upload**, and browse for the VIN file you want to upload. Preview the photo if needed by double-clicking on it. If the photo is not clear, select another one. Do this step for each photo you are submitting.

NOTE: You must upload your photos one at a time.

- 41. Click on **Submit** to send the A/T order form and your photos to the RPO Tech Line. They will review your photos and determine whether the A/T needs an A/T Oil Jet Kit or to be replaced.
 - If the gear color is normal, the RPO Tech Line will cancel your order and direct you to install an A/T Oil Jet Kit. Go to A/T OIL JET KIT INSTALLATION. For 3.2CL and 3.2TL models, go to step 1, and detach the engine harness clips from the ATF oil line. Then go to step 11 of the procedure. For '04 TL models, go to step 4, and remove the air cleaner. Then go to step 8 of the procedure.
 - If the gear color indicates an overheating condition, your order will be processed, and a remanufactured A/T will be sent to you as soon as possible. To check if your order was accepted, go to the *i*N main menu, click on PARTS, Parts Ordering, and then Warranty A/T VIN Inquiry. Enter a date in the All Orders Accepted Since box, and then click on Submit. From the WARRANTY A/T VIN INQUIRY ACKNOWLEDGEMENT screen, find the VIN you want, and look across at the STAT column to determine your order status.
 - When you get the remanfactured A/T, go to A/T REPLACEMENT.

NOTE: If you ordered a remanufactured A/T for a 3.2CL or 3.2TL, you may get an updated PCM and you may also get a new fuel pressure regulator (shipped separately). Make sure you complete the repair by installing the updated PCM, the fuel pressure regulator (if sent), and the remanufactured A/T at the same time.

A/T OIL JET KIT INSTALLATION

NOTE: For a complete description of this installation, **CLICK HERE** for an online animated version.

- 1. *3.2CL and 3.2TL models:* Detach the engine harness clips from the ATF oil line.
- 2. *3.2CL and 3.2TL models:* Clean the area around the ATF filler bolt, the countershaft speed sensor, and the ATF filter lines. Go to step 11.



3. '04 TL models: Remove the left side and left rear engine compartment covers.

LEFT REAR ENGINE



4. '04 TL models: Unbolt the air cleaner lid, detach the battery cable clips from the lid, then remove the air cleaner lid, the intake air duct, and the air cleaner.



- 5. *'04 TL models:* Remove the two 10 mm bolts from the under-hood fuse/relay box.
- 6. '04 TL models: Detach the engine harness clip from the fuse/relay box, and pull the box forward.

7. *'04 TL models:* Clean the top of the A/T around the ATF filler bolt, the countershaft speed sensor, and the ATF lines.



- 8. '04 TL models: Remove the A/T ground strap.
- 9. '04 TL models: Detach the wire harness from the ATF filter line bracket.
- 10. *'04 TL models:* Remove the metal vacuum lines from the two clips on the A/T cooler hose assembly.



11. Disconnect the ATF hose from the ATF filter line, and discard the hose clamp.



12. Remove the ATF filter line bracket bolt(s), then remove and discard the ATF filter line.

- 13. Assemble the A/T Oil Jet Kit outside the vehicle, but do not attach the oil jet onto the oil jet hose yet. NOTE:
 - Each hose clamp has a retainer to hold it in its spread position. To install a hose clamp, slide it into position (**7 mm** from the end of the hose), and use pliers to pull off the retainer.
 - Use clean ATF to assemble all metal-to-rubber lines and hoses. *Do not use grease or any other lubricants.*
 - Make sure you slide the oil jet hose onto the T-fitting on the oil jet line.

3.2 CL and 3.2 TL



- 14. Install the oil jet line onto the ATF hose with a new hose clamp.
 - Use clean ATF to lubricate the oil jet O-ring and the ATF filter O-ring before installation.
 - Make sure there are no kinks in the oil jet hose when you install it onto the A/T.

3.2 CL and 3.2 TL - A/T AFTER INSTALLATION OF A/T OIL JET KIT



- Install the other end of the oil jet line onto the ATF filter. For 3.2CL and 3.2TL models, torque the filter line bracket bolts to 12 N·m (8.7 lb-ft); for '04 TL models, torque the filter line bolt to 28 N·m (21 lb-ft).
- 16. Remove the harness bracket bolt.
- 17. If not already done, remove and discard the ATF filler bolt.
- Install the ATF filler plug adapter with a new sealing washer. Torque the adapter to 44 N·m (33 lb-ft).
- Insert the oil jet into the filler plug adapter, making sure the oil jet is flush. Position the oil jet bracket over the harness bracket bolt hole. Reinstall the harness bracket bolt. Torque the bolt to 27 N·m (20 lb-ft).
- 20. Check if the oil jet has a white mark **34 mm** from the end of the pipe. If it does not have this mark, measure **34 mm** from the end of the pipe, and use a paint pen or marker to mark the spot.



- 21. Slide the new hose clamp onto the oil jet hose, and then slide the hose onto the oil jet tube up to the mark on the tube. Make sure the hose is not kinked. Position the clamp **7 mm** from the end of the hose, and release the clamp retainer.
- 22. Attach the oil jet line bracket. Torque the bolt to 12 N·m (8.7 lb-ft).
- 23. Attach the wire harness to the oil jet line bracket.
- 24. Clean up any residual ATF that spilled when you installed the kit.
- 25. Start the engine. Move the shift lever to **D**, and then to **R**. Move the shift lever to **D** and then to **P**. Raise the engine speed to **1,500 rpm**, keep it there for several minutes, then turn off the engine.
- 26. Check for leaks where you installed the kit. If you find any leaks, make sure the ATF filler plug adapter, the oil jet, and all hose clamps are correctly installed.
- 27. Check the ATF level, and add ATF if needed.

- 28. When topping off or refilling ATF on vehicles that have an A/T Oil Jet Kit, do this:
 - Remove the oil jet hose. Avoid kinking or pulling on the hose.
 - Remove the oil jet.
 - Add the ATF through the ATF filler plug.
 - Replace the oil jet O-ring, P/N 91301-P7W-003. Use clean ATF to lubricate the O-ring.
 - Install the oil jet. Torque the bracket bolt to 27 N.m (20 lb-ft).
 - Slide the oil jet hose onto the oil jet tube up to the 34 mm mark, and then install the clamp 7 mm from the end of the hose.
- 29. Reinstall all removed parts, then go to **COMPLETION PROCEDURE**.

A/T REPLACEMENT

Follow the **IN-WARRANTY EXCHANGE** steps in S/B 90-009, *Automatic Transmission In-Warranty Exchange Program*, to order a remanufactured A/T, replace the failed A/T, and return the failed A/T core. NOTE:

- If you order a remanufactured A/T for a 3.2CL or 3.2TL, you may also get an updated PCM and may get a new fuel pressure regulator (shipped separately). Make sure you complete the repair by installing the updated PCM, the fuel pressure regulator (if sent), and the remanufactured A/T at the same time. New fuel pressure regulators have a black dot on top to help you identify them.
- Remanufactured A/Ts do not need an A/T Oil Jet Kit; they have been updated internally.
- When refilling the A/T, always use Honda ATF-Z1.
- Make sure you do the idle learn procedure. For '04 TL models, make sure you check the front wheel alignment, and adjust it if needed.
- During the road test, you do not need to check the shift points with the HDS.
- After the road test, recheck the ATF level, add ATF if needed, and check for leaks.

COMPLETION PROCEDURE

Center-punch a completion mark above the 12th character of the engine compartment VIN.

Center-punch here.



Example of Customer Letter

Summer 2004

Safety Recall: CL and TL Automatic Transmission Second Gear Inspection

Dear Acura Owner:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act.

What is the reason for this notice?

Honda Motor Co., Ltd., has decided that a defect relating to motor vehicle safety exists in certain 2001–03 3.2CLs, 2000–03 3.2TLs, and 2004 TLs.

Certain operating conditions can result in heat buildup in the transmission second gear set and may lead to gear tooth chipping. In very rare cases, gear breakage can occur. Gear failure could result in transmission lockup, and a crash could occur without warning.

What should you do?

Call any authorized Acura dealer and make an appointment to have your vehicle repaired. For vehicles with less than 15,000 miles, the dealer will install an oil jet kit to provide additional lubrication to the gears. For vehicles with more than 15,000 miles, the dealer will inspect the affected gear for heat discoloration, which indicates possible damage. If heat discoloration exists, the dealer will replace the transmission. If heat discoloration is not found, the dealer will install an oil jet kit. This work will be done *free of charge*. Please plan to leave your vehicle all day to allow the dealer flexibility in scheduling the inspection and installing the oil jet kit. If transmission replacement is needed, the work will take more than one day.

Who to contact if you experience problems.

If you are not satisfied with the service you receive from your Acura dealer, you may write to:

American Honda Motor Co., Inc. Acura Client Services Mail Stop 500-2N-7E 1919 Torrance Blvd. Torrance, CA 90501-2746

If you believe that American Honda or the dealer has failed or is unable to remedy the defect in your vehicle, without charge, within a reasonable period of time (60 days from the date you first contact the dealer for a repair appointment), you may submit a complaint to:

> Administrator National Highway Traffic Safety Administration 400 Seventh Street, SW Washington, DC 20590

Or call the toll-free Safety Hotline at (888) 327-4236.

What to do if you feel this notice is in error.

Our records show that you are the current owner or lessee of a 2001–03 3.2CL, 2000–03 3.2TL, or 2004 TL involved in this campaign. If this is not the case, or the name/address information is not correct, please fill out and return the enclosed, postage-paid *Information Change Card*. We will then update our records.

If you paid to have the transmission replaced, you may be eligible for reimbursement. Refer to the attached instructions for eligibility requirements and the reimbursement procedure.

Lessor Information.

Federal law requires that any vehicle lessor receiving this recall notice must forward a copy of this notice to the lessee within 10 days.

If you have questions.

If you have any questions about this notice, or need assistance with contacting an Acura dealer, please call Acura Client Services at (800) 382-2238, and select menu option #2.

We apologize for any inconvenience this campaign may cause you.

Sincerely,

American Honda Motor Co., Inc. Acura Automobile Division