



Applies To: **2003 3.2CL with M/T – ALL**
2002–06 RSX with 6-Speed M/T – ALL
2004–07 TL with M/T – ALL
2008 TL with M/T – From VIN 19UUA75..8A000001 thru 19UUA75..8A029085

April 12, 2008

Transmission Grinds When Shifting Into 3rd Gear, Pops Out of 3rd Gear, or Is Hard to Shift Into 3rd Gear

SYMPTOM

The 6-speed manual transmission grinds when shifting into 3rd gear, pops out of 3rd gear, or is hard to shift into 3rd gear.

NOTE: These symptoms can be intermittent and sometimes more noticeable in colder climates.

PROBABLE CAUSE

The transmission has a faulty 3rd gear synchronizer or 3-4 shift sleeve.

CORRECTIVE ACTION

Replace the 3rd gear set.

PARTS INFORMATION

3rd Gear Set (RSX):

P/N 23444-PNS-316

3rd Gear Set (2004–08 TL, 2003 3.2CL):

P/N 23444-RDE-315

Liquid gasket (as needed): P/N 08718-0012

Grease (as needed): P/N 08798-9002

Additional Hardware

NOTE: The following parts must be replaced when replacing the third gear set.

CL:

O-Ring (37.7 x 3.5) (1 required):

P/N 91305-PN4-003

Oil Seal (28 x 43 x 7) (1 required):

P/N 91216-PG1-005

Oil Seal (35 x 54 x 8) (1 required):

P/N 91206-P0Z-005

Oil Seal (40 x 56 x 9) (1 required):

P/N 91205-P0X-005

Pin, Split (3.0 x 22) (2 required):

P/N 94201-30220

Split Pin (2.0 x 35) (2 required):

P/N 94201-20350

Set-Ring (28 x 2.0) (1 required):

P/N 44319-S84-300

Set-Ring (30 x 2.2) (1 required):

P/N 44319-S1K-300

O-Ring (16 x 2.1) (2 required):

P/N 91309-PX4-003

O-Ring (29.7 x 2.4) (1 required):

P/N 91307-PR8-005

Washer (6 mm) (1 required):

P/N 90442-397-000

Washer (14 mm) (1 required):

P/N 94109-14000

Washer (20 mm) (1 required):

P/N 94109-20000

RSX:

Bolt, Arm (10 x 84) (2 required):

P/N 90201-SL0-000

Bolt, Flange (10 x 20) (2 required):

P/N 90163-S5A-000

Bolt, Flange (12 x 33) (2 required):

P/N 90171-S6M-000

Bolt, Flange (12 x 35) (3 required):

P/N 90168-S5A-000

Bolt, Flange (12 x 54) (1 required):

P/N 90165-S7C-000

Bolt, Flange (12 x 84) (2 required):

P/N 90166-S7C-000

Bolt, Flange (12 x 90) (1 required):

P/N 90164-SH3-010

Bolt, Flange (12 x 88) (1 required):

P/N 90167-S5A-010

Bolt, Flange (14 x 115) (4 required):

P/N 90175-S5A-000

Gasket (57.5 mm-58.5 mm) (1 required):

P/N 18393-SS0-J30

Nut (10 mm) (3 required):

P/N 90212-SA5-003

Nut, Spindle (24 mm) (2 required):
P/N 90305-SDA-003

Oil Seal (28 x 43 x 7) (1 required):
P/N 91216-PG1-005

Oil Seal (35 x 58 x 8) (1 required):
P/N 91206-PHR-003

Oil Seal (40 x 56 x 8) (1 required):
P/N 91205-PL3-B01

O-Ring (16 x 2.1) (1 required):
P/N 91309-PX4-003

Pin, Split (2.0 x 22) (2 required):
P/N 94201-20220

Washer, Drain (14 mm) (1 required):
P/N 94109-14000

Washer, Drain (20mm) (1 required):
P/N 94109-20000

Washer, Drain plug (12mm) (3 required):
P/N 94109-12000

Washer, Drain (10 mm) (1 required):
P/N 90401-PG1-000

Set-Ring (28 x 2.0) (1 required):
P/N 44319-SE0-000

Set-Ring (28 x 2.0) (1 required):
P/N 44319-S0A-300

TL:

Bolt, Flange (10 x 25) (2 required):
P/N 90168-SP0-000

Bolt, Flange (10 x 30) (4 required):
P/N 90163-SDB-A00

Bolt, Flange (10 x 34) (4 required):
P/N 90170-SDA-A01

Bolt, Flange (10 x 35) (2 required):
P/N 90163-SDA-A01

Bolt, Flange (10 x 62) (1 required):
P/N 90169-SDA-A01

Bolt, Flange (10 x 70) (2 required):
P/N 90167-SEP-A00

Bolt, Flange (10 x 75) (1 required):
P/N 90167-SEP-A11

Bolt, Flange (10 x 97) (1 required):
P/N 90167-SCV-A01

Bolt, Flange (12 x 33) (2 required):
P/N 90186-SDA-A00

Bolt, Flange (12 x 75) (2 required):
P/N 90396-S5A-010

Bolt, Flange (14 x 135) (2 required):
P/N 90176-SDA-A00

Bolt, Flange (14 x 150) (2 required):
P/N 90177-SDA-A00

Gasket, Exhaust Pipe (2 required):
P/N 18212-SA7-003

Gasket, Pre-Chamber (1 required):
P/N 18393-SDB-A00

Nut, Flange (10 mm) (4 required):
P/N 90361-SEP-A00

Nut, Self-Locking (10 mm) (9 required):
P/N 90212-SA5-003

O-Ring (16 x 2.1) (2 required):
P/N 91309-PX4-003

O-Ring (29.7 x 2.4) (1 required):
P/N 91307-PR8-005

O-Ring (37.7 x 3.5) (1 required):
P/N 91305-PN4-003

Oil Seal (28 x 43 x 7) (1 required):
P/N 91216-PG1-005

Oil Seal (35 x 54 x 8) (1 required):
P/N 91206-P0Z-005

Oil Seal (40 x 56 x 9) (1 required):
P/N 91205-P0X-005

Pin, Split (2.0 x 35) (4 required) (04–06 TL Only):
P/N 94201-20350

Set-Ring (30 x 2.2) (1 required):
P/N 44319-SD4-010

Set-Ring (30 x 2.2) (1 required):
P/N 44319-S1K-300

Washer (6 mm) (1 required):
P/N 90442-397-000

Washer (14 mm) (1 required):
P/N 94109-14000

Washer (20 mm) (1 required):
P/N 94109-20000

REQUIRED MATERIALS

Acura Precision Crafted M/T Fluid: P/N 08798-9031
3.2CL, TL: 2.6 quarts needed
RSX: 1.8 quarts needed

WARRANTY CLAIM INFORMATION

In warranty: The normal warranty applies.

OP#	Description	FRT
213205	3rd gear set replacement (3.2CL)	8.5
	3rd gear set replacement (RSX)	8.4
	3rd gear set replacement (TL)	9.5
M	Add for Alignment	0.6

Failed Part: P/N 23444-PYZ-306

Defect Code: 03214

Symptom Code: 04101

Skill Level: Repair Technician

Out of warranty: Any repair performed after warranty expiration may be eligible for goodwill consideration by the District Parts and Service Manager or your Zone Office. You must request consideration, and get a decision, before starting work.

DIAGNOSIS

Drive a known-good vehicle under the same conditions as the client's complaint, and compare the shift quality. If the client's vehicle has noticeable shift quality problems, replace the 3rd gear set.

NOTE: It is not uncommon for there to be some resistance or notchiness when shifting into third gear.

REPAIR PROCEDURE

1. Remove the transmission:
 - Refer to Section 13 of the appropriate service manual, or
 - Online, enter keywords **MANUAL REM**, and select **Manual Transmission Removal (M/T)** from the list.
2. Disassemble the transmission down to the mainshaft:
 - Refer to Section 13 of the appropriate service manual, or
 - Online, enter keywords **TRANSMISSION DIS**, and select **Manual Transmission Disassembly (M/T)** from the list.
3. Replace the 3rd gear set:
 - Refer to Section 13 of the appropriate service manual, or
 - Online, enter keywords **MAIN DIS**, and select **M/T Mainshaft Disassembly (M/T)** from the list.

4. Reassemble the transmission:
 - Refer to Section 13 of the appropriate service manual, or
 - Online, enter keywords **TRANSMISSION REA**, and select **Manual Transmission Reassembly (M/T)** from the list.
5. Reinstall the transmission:
 - Refer to Section 13 of the appropriate service manual, or
 - Online, enter keywords **MANUAL INST**, and select **Manual Transmission Installation (M/T)** from the list.