

INTRODUCTION

Product: 2002-2006 Acura RSX Car Service Repair Workshop Manual

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How to Use This Manual

This manual is divided into multiple sections. The first page of each section is marked with a black tab that lines up with its corresponding thumb index tab on this page and the back cover. You can quickly find the first page of each section without looking through a full table of contents. The symbols printed at the top corner of each page can also be used as a quick reference system.

Each section includes:

1. A table of contents, or an exploded view index showing:
 - Parts disassembly sequence.
 - Bolt torques and thread sizes.
 - Page references to descriptions in text.
2. Disassembly/assembly procedures and tools.
3. Inspection.
4. Testing/troubleshooting.
5. Repair.
6. Adjustments.

Safety Messages

Your safety, and the safety of others, is very important. To help you make informed decisions, we have provided safety messages, and other safety information throughout this manual. Of course, it is not practical or possible to warn you about all the hazards associated with servicing this vehicle. You must use your own good judgment.

You will find important safety information in a variety of forms including:

- **Safety Labels** — on the vehicle.
- **Safety Messages** — preceded by a safety alert symbol  and one of three signal words, DANGER, WARNING, or CAUTION. These signal words mean:

-  **DANGER** You WILL be KILLED or SERIOUSLY HURT if you don't follow instructions.
-  **WARNING** You CAN be KILLED or SERIOUSLY HURT if you don't follow instructions.
-  **CAUTION** You CAN be HURT if you don't follow instructions.

- **Instructions** — how to service this vehicle correctly and safely.

All information contained in this manual is based on the latest product information available at the time of printing. We reserve the right to make changes at anytime without notice. No part of this publication may be reproduced, stored in retrieval system, or transmitted, in any form by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of the publisher. This includes text, figures, and tables.

As you read this manual, you will find information that is preceded by a **NOTICE** symbol. The purpose of this message is to help prevent damage to your vehicle, other property, or the environment.

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Specifications apply to U.S.A. and Canada

HONDA MOTOR CO., LTD.

Service Publication Office

Sample manual. Assemblies with * include SRS components; special precautions are required when servicing.

<https://www.arepairmanual.com/downloads/2002-2006-acura-rsx-car-service-repair-workshop-manual/>

General Info



Specifications

specs

Maintenance



*Engine Electrical



Engine



Cooling



Fuel and Emissions



Transaxle



*Steering



Suspension



Brakes
(Including ABS)



*Body



*Heating, Ventilation
and Air Conditioning



*Body Electrical



*Restraints



- DYNAMITE 2009 -

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

The Acura RSX SRS includes a driver's airbag in the steering wheel hub, a passenger's airbag in the dashboard above the glove box, seat belt tensioners in the front seat belt retractors, seat belt buckle tensioners in the front seat belt buckles, and side airbags in the front seat-backs. Information necessary to safely service the SRS is included in this Service Manual. Items marked with an asterisk (*) on the contents page include or are located near SRS components. Servicing, disassembling, or replacing these items require special precautions and tools, and should be done only by an authorized Acura dealer.

- To avoid rendering the SRS inoperative, which could lead to personal injury or death in the event of a severe frontal or side collision, all SRS service work must be performed by an authorized Acura dealer.
- Improper service procedures, including incorrect removal and installation of the SRS could lead to personal injury caused by unintentional deployment of the airbags and/or side airbags.
- Do not bump or impact the SRS unit, front impact sensors, side impact sensors whenever the ignition switch is ON (II), or for at least 3 minutes after the ignition switch is turned OFF. Otherwise, the system may fail in a collision, or the airbags may deploy.
- SRS electrical connectors are identified by yellow color coding. Related components are located in the steering column, front console, dashboard, dashboard lower panel, in the dashboard above the glove box, in the front seats, and around the floor. Do not use electrical test equipment on these circuits.



General Information

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Chassis and Paint Codes	
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General Information

Chassis and Paint Codes

2002 Model

Vehicle Identification Number

JH4 DC5 3 8 * 2 C 000001

a b c d e f g h

a. Manufacturer, Make and Type of Vehicle
 JH4: HONDA MOTOR CO., LTD.
 ACURA passenger vehicle

b. Line, Body and Engine Type
 DC5: ACURA RSX/K20A2, K20A3

c. Body Type and Transmission Type
 3: 2-door Hatchback/5-speed Manual
 2-door Hatchback/6-speed Manual
 4: 2-door Hatchback/5-speed Automatic

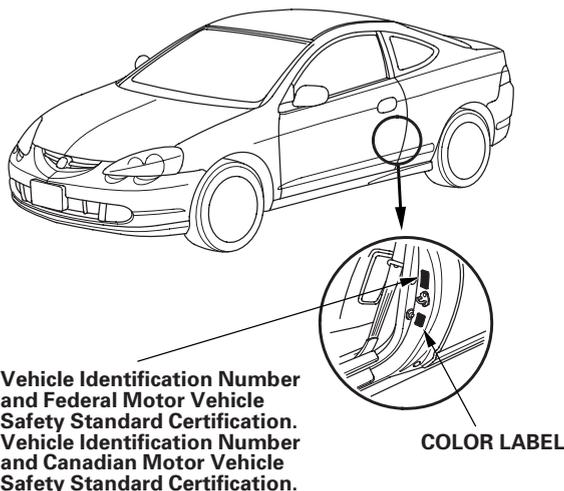
d. Vehicle Grade (Series)
 U.S. Model Canada Model
 0: Type S 0: Type S
 8: RSX 6: RSX
 8: Premium

e. Check Digit

f. Model Year
 2: 2002

g. Factory Code
 C: Saitama Factory in Japan

h. Serial Number
 U.S.: 000001—
 Canada: 800001—



Engine Number

K20A2 - 1400001

a b

a. Engine Type
 K20A2: 2.0 L DOHC i-VTEC Sequential Multiport Fuel-injected 200 HP engine
 K20A3: 2.0 L DOHC i-VTEC Sequential Multiport Fuel-injected 160 HP engine

b. Serial Number
 K20A2: 1400001—
 K20A3: 1100001—

Transmission Number

MRMA - 1000001

a b

a. Transmission Type
 MRMA: 5-speed Automatic
 W2M5: 5-speed Manual
 X2M5: 6-speed Manual

b. Serial Number

Paint Code

Code	Color	U.S.	Canada
B-507P	Arctic Blue Pearl	○	○
B-92P	Nighthawk Black Pearl	○	○
B-96P	Eternal Blue Pearl	○	
NH-578	Taffeta White	○	
NH-623M	Satin Silver Metallic	○	○
NH-636P	Brilliant White Pearl		○
R-81	Milano Red		○
R-507P	Fire Pepper Red Pearl	○	
YR-534M	Desert Silver Metallic	○	○



2003 Model

Vehicle Identification Number

JH4 DC5 3 8 * 3 C 000001

|-----|-----|-----|-----|-----|-----|-----|-----|

a b c d e f g h

a. Manufacturer, Make and Type of Vehicle
JH4: HONDA MOTOR CO., LTD.
ACURA passenger vehicle

b. Line, Body and Engine Type
DC5: ACURA RSX/K20A2, K20A3

c. Body Type and Transmission Type
3: 2-door Hatchback/5-speed Manual
2-door Hatchback/6-speed Manual
4: 2-door Hatchback/5-speed Automatic

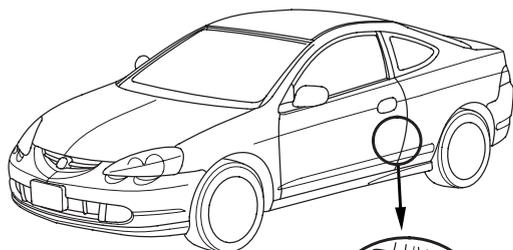
d. Vehicle Grade (Series)
U.S. Model Canada Model
0: Type S 0: Type S
8: RSX 8: RSX
8: Premium

e. Check Digit

f. Model Year
3: 2003

g. Factory Code
C: Saitama Factory in Japan
S: Suzuka Factory in Japan

h. Serial Number
U.S.: 000001—
Canada: 800001—



Vehicle Identification Number and Federal Motor Vehicle Safety Standard Certification.
Vehicle Identification Number and Canadian Motor Vehicle Safety Standard Certification.

COLOR LABEL

Engine Number

K20A2 - 2400001

|-----|-----|

a b

a. Engine Type
K20A2: 2.0 L DOHC i-VTEC Sequential Multiport Fuel-injected 200 HP engine
K20A3: 2.0 L DOHC i-VTEC Sequential Multiport Fuel-injected 160 HP engine

b. Serial Number
K20A2: Saitama Factory: 2400001—
Suzuka Factory: 2420001—
K20A3: Saitama Factory: 2100001—
Suzuka Factory: 2120001—

Transmission Number

MRMA - 2000001

|-----|-----|

a b

a. Transmission Type
MRMA: 5-speed Automatic
W2M5: 5-speed Manual
X2M5: 6-speed Manual

b. Serial Number

Paint Code

Code	Color	U.S.	Canada
B-507P	Arctic Blue Pearl	○	○
B-92P	Nighthawk Black Pearl	○	○
B-96P	Eternal Blue Pearl	○	
NH-578	Taffeta White	○	
NH-623M	Satin Silver Metallic	○	○
NH-624P	Premium White Pearl	○	○
NH-636P	Brilliant White Pearl		○
R-81	Milano Red		○
R-522	Redondo Red Pearl	○	
YR-534M	Desert Silver Metallic	○	○

General Information

Chassis and Paint Codes (cont'd)

2004 Model

Vehicle Identification Number

JH4	DC5	3	8	*	4	S	000001
a	b	c	d	e	f	g	h

a. Manufacturer, Make and Type of Vehicle
 JH4: HONDA MOTOR CO., LTD.
 ACURA passenger vehicle

b. Line, Body and Engine Type
 DC5: ACURA RSX/K20A2, K20A3

c. Body Type and Transmission Type
 3: 2-door Hatchback/5-speed Manual
 2-door Hatchback/6-speed Manual
 4: 2-door Hatchback/5-speed Automatic

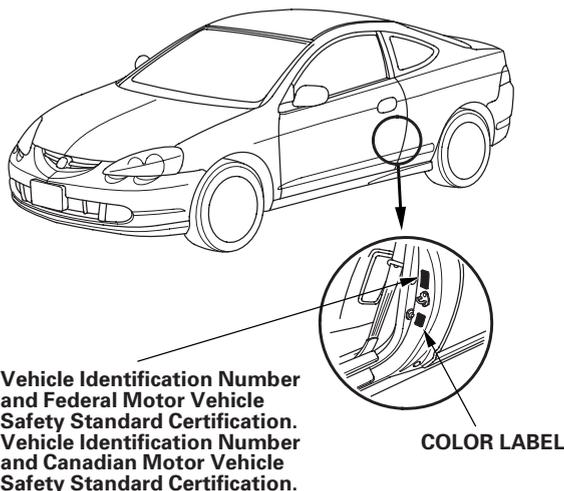
d. Vehicle Grade (Series)
 U.S. Model Canada Model
 0: Type S 0: Type S
 8: RSX 6: RSX
 8: Premium

e. Check Digit

f. Model Year
 4: 2004

g. Factory Code
 S: Suzuka Factory in Japan

h. Serial Number
 U.S.: 000001—
 Canada: 800001—



Engine Number

K20A2	-	3300001
a		b

a. Engine Type
 K20A2: 2.0 L DOHC i-VTEC Sequential Multiport Fuel-injected 200 HP engine
 K20A3: 2.0 L DOHC i-VTEC Sequential Multiport Fuel-injected 160 HP engine

b. Serial Number
 K20A2: 3300001—
 K20A3: 3000001—

Transmission Number

MRMA	-	3000001
a		b

a. Transmission Type
 MRMA: 5-speed Automatic
 W2M5: 5-speed Manual
 X2M5: 6-speed Manual

b. Serial Number

Paint Code

Code	Color	U.S.	Canada
B-507P	Arctic Blue Pearl	○	○
B-92P	Nighthawk Black Pearl	○	○
B-96P	Eternal Blue Pearl	○	
NH-578	Taffeta White	○	
NH-623M	Satin Silver Metallic	○	○
NH-624P	Premium White Pearl	○	○
NH-636P	Brilliant White Pearl		○
R-81	Milano Red		○
YR-534M	Desert Silver Metallic	○	○



2005 Model

Vehicle Identification Number

JH4	DC5	3	8	*	5	S	000001
a	b	c	d	e	f	g	h

a. Manufacturer, Make and Type of Vehicle
 JH4: HONDA MOTOR CO., LTD.
 ACURA passenger vehicle

b. Line, Body and Engine Type
 DC5: ACURA RSX/K20Z1, K20A3

c. Body Type and Transmission Type
 3: 2-door Hatchback/5-speed Manual
 2-door Hatchback/6-speed Manual
 4: 2-door Hatchback/5-speed Automatic

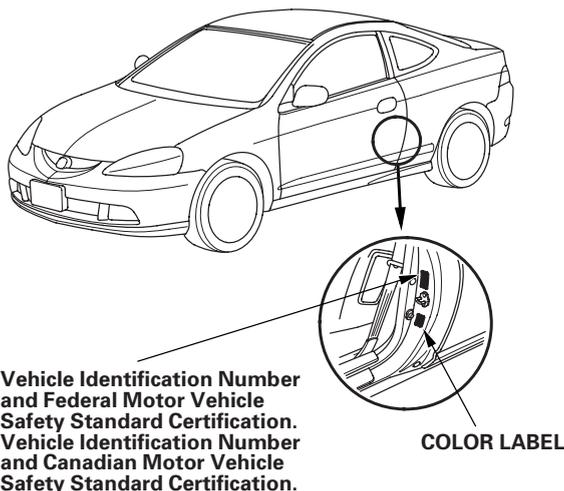
d. Vehicle Grade (Series)
 U.S. Model Canada Model
 0: Type S 0: Type S
 8: RSX 6: RSX
 8: Premium

e. Check Digit

f. Model Year
 5: 2005

g. Factory Code
 S: Suzuka Factory in Japan

h. Serial Number
 U.S.: 000001—
 Canada: 800001—



Engine Number

K20Z1	-	1000001
a		b

a. Engine Type
 K20Z1: 2.0 L DOHC i-VTEC Sequential Multiport Fuel-injected 210 HP engine
 K20A3: 2.0 L DOHC i-VTEC Sequential Multiport Fuel-injected 160 HP engine

b. Serial Number
 K20Z1: 1000001—
 K20A3: 4000001—

Transmission Number

MRMA	-	4000001
a		b

a. Transmission Type
 MRMA: 5-speed Automatic
 PTD6: 5-speed Manual
 NSN4: 6-speed Manual

b. Serial Number

Paint Code

Code	Color	U.S.	Canada
B-92P	Nighthawk Black Pearl	○	○
B-520P	Vivid Blue Pearl	○	○
NH-578	Taffeta White	○	
NH-623M	Satin Silver Metallic	○	○
NH-624P	Premium White Pearl	○	○
NH-675M	Magnesium Metallic	○	○
G-523M	Jade Green Metallic	○	
R-81	Milano Red	○	
YR-552M	Blaze Orange Metallic	○	○

General Information

Chassis and Paint Codes (cont'd)

2006 Model

Vehicle Identification Number

JH4 DC5 3 8 * 6 S 000001

a b c d e f g h

a. Manufacturer, Make and Type of Vehicle
 JH4: HONDA MOTOR CO., LTD.
 ACURA passenger vehicle

b. Line, Body and Engine Type
 DC5: ACURA RSX/K20Z1, K20A3

c. Body Type and Transmission Type
 3: 2-door Hatchback/5-speed Manual
 2-door Hatchback/6-speed Manual
 4: 2-door Hatchback/5-speed Automatic

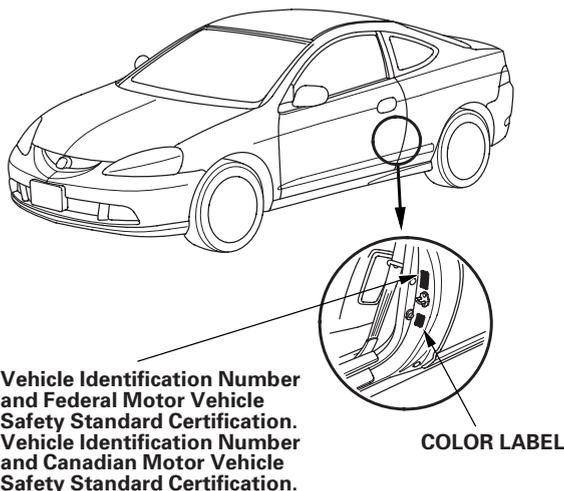
d. Vehicle Grade (Series)
 U.S. Model Canada Model
 0: Type S 0: Type S
 8: RSX 6: RSX
 8: Premium

e. Check Digit

f. Model Year
 6: 2006

g. Factory Code
 S: Suzuka Factory in Japan

h. Serial Number
 U.S.: 000001—
 Canada: 800001—



Engine Number

K20Z1 - 2000001

a b

a. Engine Type
 K20Z1: 2.0 L DOHC i-VTEC Sequential Multiport Fuel-injected 210 HP engine
 K20A3: 2.0 L DOHC i-VTEC Sequential Multiport Fuel-injected 160 HP engine

b. Serial Number
 K20Z1: 2000001—
 K20A3: 5000001—

Transmission Number

MRMA - 5000001

a b

a. Transmission Type
 MRMA: 5-speed Automatic
 PTD6: 5-speed Manual
 NSN4: 6-speed Manual

b. Serial Number

Paint Code

Code	Color	U.S.	Canada
B-92P	Nighthawk Black Pearl	○	○
B-520P	Vivid Blue Pearl	○	○
NH-578	Taffeta White	○	
NH-624P	Premium White Pearl	○	○
NH-700M	Alabaster Silver Metallic	○	○
NH-675M	Magnesium Metallic	○	○
G-523M	Jade Green Metallic	○	
R-81	Milano Red	○	
YR-552M	Blaze Orange Metallic	○	○

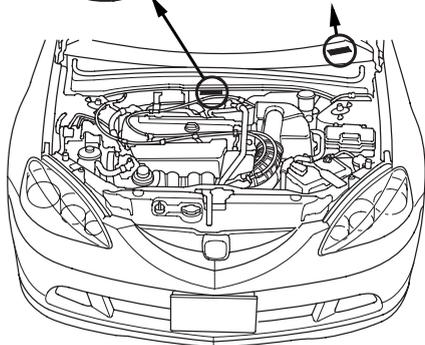
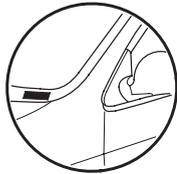


Identification Number Locations

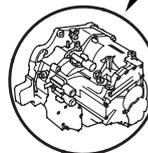
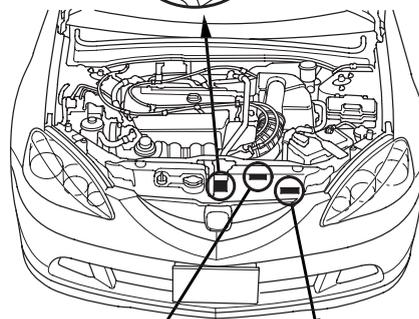
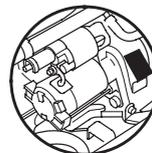
Vehicle Identification Number (VIN)



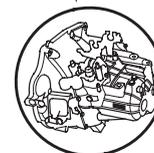
Vehicle Identification Number (VIN)



Engine Number



Transmission Number (Automatic)



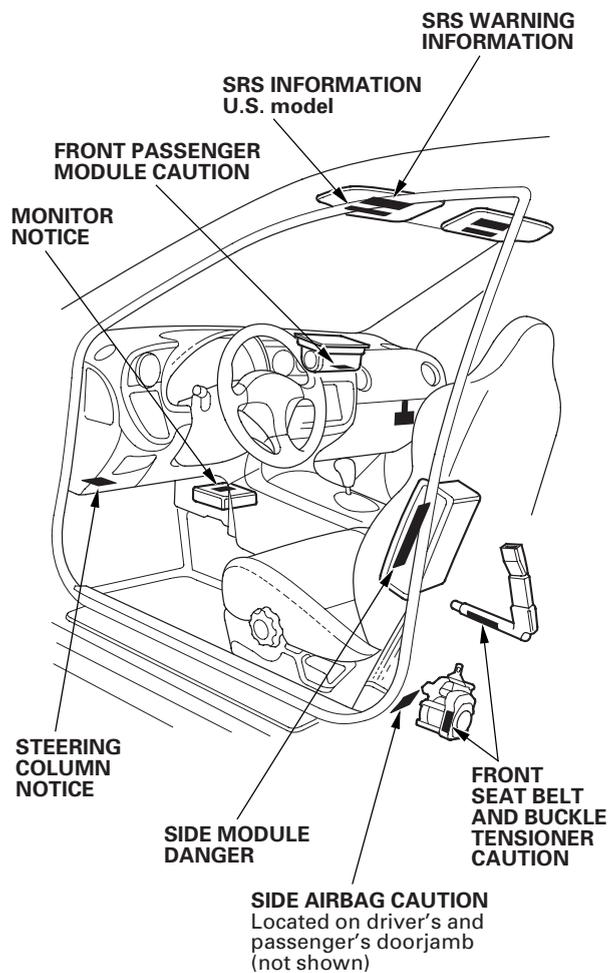
Transmission Number (Manual)

General Information

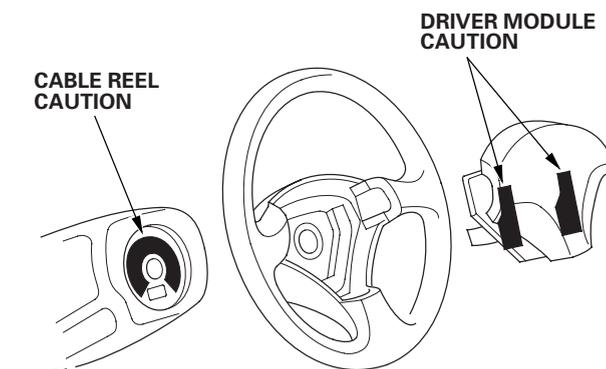
Danger/Warning/Caution Label Locations

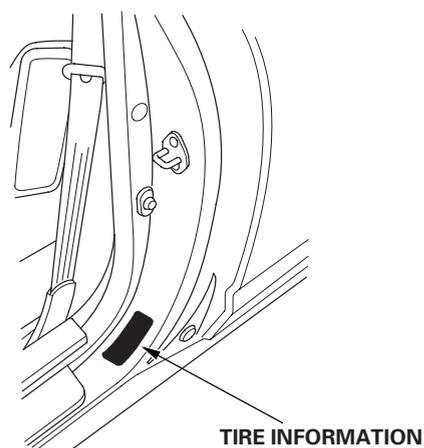
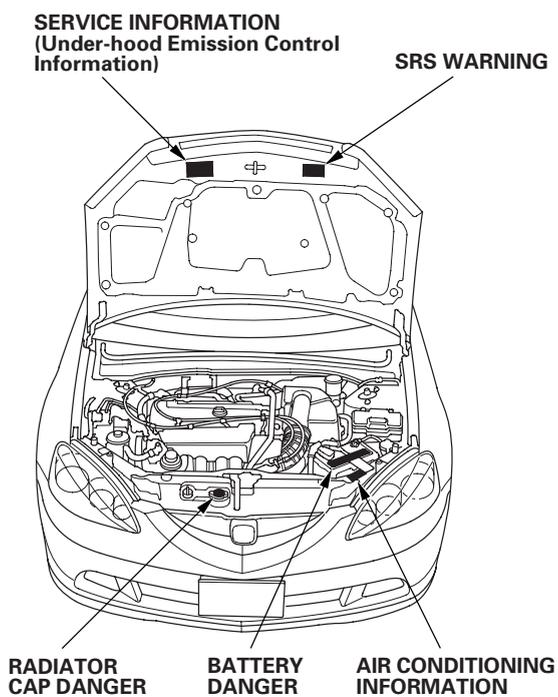
NOTE: FRONT PASSENGER AIRBAG WARNING TAG (CHILD SEAT) is equipped on the glove box in the U.S. model.

Passenger's Compartment:



Steering Wheel:





General Information

Under-hood Emission Control Label

Emission Group Identification

2002-2004 Models

Example:



2002 Model:

THIS VEHICLE CONFORMS TO U.S. EPA TIER 2 BIN 5 REGULATIONS APPLICABLE TO 2002 MODEL YEAR NEW BIN 5 PASSENGER CARS AND CALIFORNIA REGULATIONS APPLICABLE TO 2002 MODEL YEAR NEW LEV II LEV PASSENGER CARS.

2003 Model:

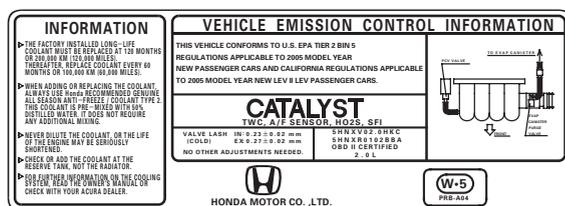
THIS VEHICLE CONFORMS TO U.S. EPA TIER 2 REGULATIONS APPLICABLE TO 2003 MODEL YEAR NEW BIN 5 PASSENGER CARS AND CALIFORNIA REGULATIONS APPLICABLE TO 2003 MODEL YEAR NEW LEV II LEV PASSENGER CARS.

2004 Model:

THIS VEHICLE CONFORMS TO U.S. EPA TIER 2 REGULATIONS APPLICABLE TO 2004 MODEL YEAR NEW BIN 5 PASSENGER CARS AND CALIFORNIA REGULATIONS APPLICABLE TO 2004 MODEL YEAR NEW LEV II LEV PASSENGER CARS.

2005-2006 Models

Example:



2005 Model: K20Z1 engine

THIS VEHICLE CONFORMS TO U.S. EPA TIER 2 BIN 5 REGULATIONS APPLICABLE TO 2005 MODEL YEAR NEW PASSENGER CARS AND CALIFORNIA REGULATIONS APPLICABLE TO 2005 MODEL YEAR NEW LEV II LEV PASSENGER CARS.

2005 Model: K20A3 engine

THIS VEHICLE CONFORMS TO U.S. EPA TIER 2 BIN 5 AND CFV LEV REGULATIONS APPLICABLE TO 2005 MODEL YEAR NEW PASSENGER CARS AND CALIFORNIA REGULATIONS APPLICABLE TO 2005 MODEL YEAR NEW LEV II LEV PASSENGER CARS. EPA CERTIFICATION TEST FUEL FOR CFV: EPA UNLEADED GASOLINE.

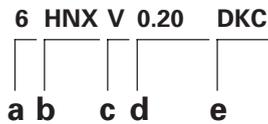
2006 Model:

THIS VEHICLE CONFORMS TO U.S. EPA TIER 2 BIN 5 REGULATIONS APPLICABLE TO 2006 MODEL YEAR NEW PASSENGER CARS AND CALIFORNIA REGULATIONS APPLICABLE TO 2006 MODEL YEAR NEW LEV II LEV PASSENGER CARS.



Test Group and Evaporative Family

Test Group:



a. Model Year

- 2: 2002
- 3: 2003
- 4: 2004
- 5: 2005
- 6: 2006

b. Manufacturer Subcode

HNX: HONDA

c. Family Type

V: LDV

d. Displacement Group

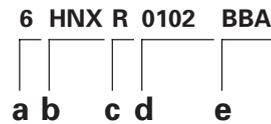
0.20: 2002-2004 Models and 2005-2006 K20Z1 engine Models and 2006 K20A3 engine Model

0.24: 2005 K20A3 engine Model

e. Sequence Characters

VBP (L-K, L-M), EKC-Type S (L-L, L-N): 2002 Model
XKC (P5, P6), SKC-Type S (P7, P8): 2003-2004 Models
HKC: 2005 K20Z1 engine Model
KBP: 2005 K20A3 engine Model
DKC: 2006 K20Z1, K20A3 engine Models

Evaporative Family:



a. Model Year

- 2: 2002
- 3: 2003
- 4: 2004
- 5: 2005
- 6: 2006

b. Manufacturer Subcode

HNX: HONDA

c. Family Type

R: EVAP/ORVR

d. Canister Work Capacity

0099: 2002-2004 Models

0102: 2005-2006 Models

e. Sequence Characters

AAH: 2002 Model

AAA: 2003-2004 Models

BBA: 2005-2006 Models

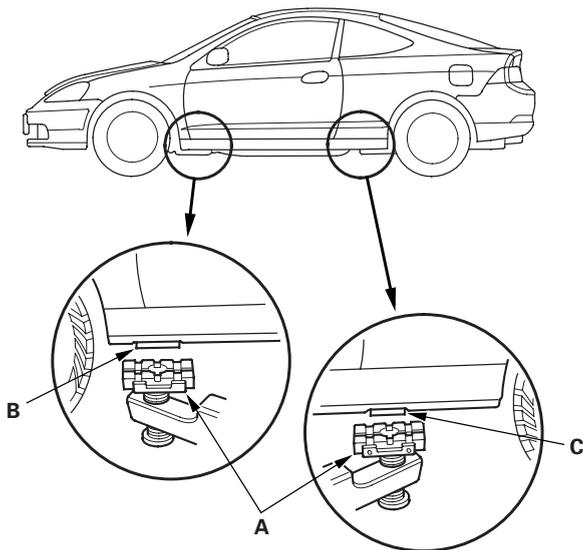
General Information

Lift and Support Points

NOTE: If you are going to remove heavy components such as suspension or the fuel tank from the rear of the vehicle, first support the front of the vehicle with tall safety stands. When substantial weight is removed from the rear of the vehicle, the center of gravity can change and cause the vehicle to tip forward on the hoist.

Frame Hoist

1. Position the hoist lift blocks (A), on safety stands, under the vehicle's front support points (B) and rear support points (C).



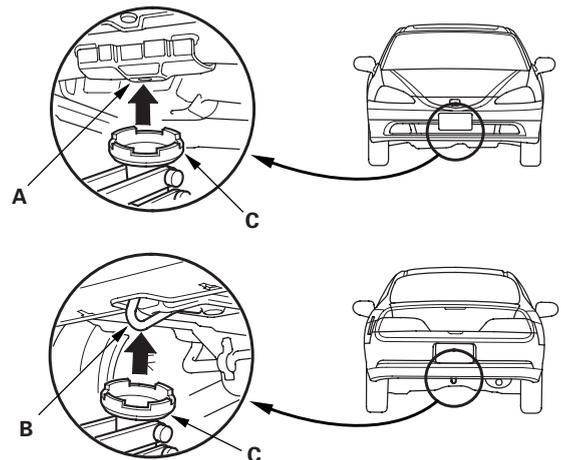
2. Raise the hoist a few inches, and rock the vehicle gently to be sure it is firmly supported.
3. Raise the hoist to full height, and inspect the lift points for solid contact with the lift blocks.

Safety Stands

To support the vehicle on safety stands, use the same support points (B and C) as for a frame hoist. Always use safety stands when working on or under any vehicle that is supported only by a jack.

Floor Jack

1. Set the parking brake.
2. Block the wheels that are not being lifted.
3. When lifting the rear of the vehicle, put the shift lever in reverse, or the automatic transmission in the P position.
4. Position the floor jack under the front jacking bracket (A) or rear jacking bracket (B), center the jacking bracket in the jack lift platform (C), and jack up the vehicle high enough to fit the safety stands under it.



5. Position the safety stands under the support points and adjust them so the vehicle is level.
6. Lower the vehicle onto the stands.



Towing

If the vehicle needs to be towed, call a professional towing service. Never tow the vehicle behind another vehicle with just a rope or chain. It is very dangerous.

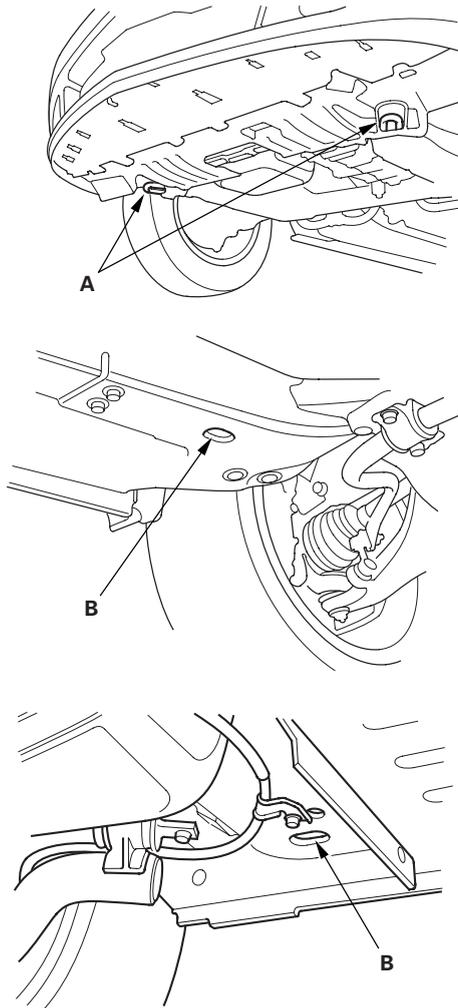
Emergency Towing

There are three popular methods of towing a vehicle.

Flat-bed Equipment — The operator loads the vehicle on the back of a truck. This is the best way of transporting the vehicle.

To accommodate flat-bed equipment, the vehicle is equipped with towing hooks (A) and tie down hooks (B).

The towing hook can be used with a winch to pull the vehicle onto the truck, and the tie down hook slots can be used to secure the vehicle to the truck.



Wheel Lift Equipment — The tow truck uses two pivoting arms that go under the tires (front or rear) and lifts them off the ground. The other two wheels remain on the ground. This is an acceptable way of towing the vehicle.

Sling-type Equipment — The tow truck uses metal cables with hooks on the ends. These hooks go around parts of the frame or suspension and the cables lift that end of the vehicle off the ground. The vehicle's suspension and body can be seriously damaged if this method of towing is attempted.

If the vehicle cannot be transported by flat-bed, it should be towed with the front wheels off the ground. If due to damage, the vehicle must be towed with the front wheels on the ground, do the following:

Manual Transmission

- Release the parking brake.
- Shift the transmission to Neutral.

Automatic Transmission

- Release the parking brake.
- Start the engine.
- Shift to the D position, then to the N position.
- Turn off the engine.

It is best to tow the vehicle no farther than 50 miles (80 km), and keep the speed below 35 mph (55 km/h).

NOTICE

- Improper towing preparation will damage the transmission. Follow the above procedure exactly. If you cannot shift the transmission or start the engine (automatic transmission), the vehicle must be transported on a flat-bed.
- Trying to lift or tow the vehicle by the bumpers will cause serious damage. The bumpers are not designed to support the vehicle's weight.

General Information

Parts Marking

To deter vehicle theft, certain major components are marked with the vehicle identification number (VIN). Original parts have self-adhesive labels. Replacement body parts have generic self-adhesive labels. These labels should not be removed. The original engine or transmission VIN plates are not transferable to the replacement engine or transmission.

NOTE: Be careful not to damage the parts marking labels during body repair. Mask the labels before repairing the part.

Standards and Service Limits

Engine Electrical

Item	Measurement	Qualification	Standard or New	Service Limit
Ignition coil	Rated voltage		12 V	
	Firing order		1—3—4—2	
Spark plug	Type	K20A3 engine	NGK: IZFR6K11 DENSO: SKJ20DR-M11	
		K20A2 engine (2002-2004 models)	NGK: IFR7G11K, IFR7G11KS DENSO: SK22PR-M11, SK22PR-M11S	
		K20Z1 engine (2005-2006 models)	NGK: IFR7G11KS DENSO: SK22PR-M11S	
	Gap		1.0—1.1 mm (0.039—0.043 in.)	1.3 mm (0.051 in.)
Ignition timing	At idle	M/T (in neutral)	8°±2° BTDC	
	Check the <i>red</i> mark	A/T (in N or P position)	8°±2° BTDC	
Drive belt	Tension		Auto tensioner	
Alternator (K20A3 engine)	Output	At 13.5 V and normal engine temperature	90 A	
	Coil (rotor) resistance	At 68°F (20°C)	1.84—2.10 Ω	
	Slip ring O.D.		22.7 mm (0.89 in.)	21.7 mm (0.85 in.)
	Brush length		15.5 mm (0.61 in.)	1.5 mm (0.06 in.)
	Brush spring tension		3.3—4.1 N (0.34—0.42 kgf, 0.7—0.9 lbf)	
Alternator [K20A2 (2002-2004 models), K20Z1 (2005-2006 models) engines]	Output	At 13.5 V and normal engine temperature	95 A	
	Coil (rotor) resistance	At 68°F (20°C)	2.2—3.0 Ω	
	Slip ring O.D.		14.4 mm (0.57 in.)	14.0 mm (0.55 in.)
	Brush length		10.5 mm (0.41 in.)	1.5 mm (0.06 in.)
	Brush spring tension		2.9—3.5 N (0.30—0.36 kgf, 0.7—0.8 lbf)	
Starter (K20A3 engine)	Output		1.2 kW	
	Commutator mica depth		0.40—0.50 mm (0.016—0.020 in.)	0.15 mm (0.006 in.)
	Commutator runout		0.02 mm (0.001 in.) max.	0.05 mm (0.002 in.)
	Commutator O.D.		28.0—28.1 mm (1.102—1.106 in.)	27.5 mm (1.083 in.)
	Brush length		11.1—11.5 mm (0.44—0.45 in.)	4.3 mm (0.17 in.)
Starter [K20A2 (2002-2004 models), K20Z1 (2005-2006 models) engines]	Output		1.1 kW	
	Commutator mica depth		0.50—0.80 mm (0.020—0.031 in.)	0.20 mm (0.008 in.)
	Commutator runout		0.02 mm (0.001 in.) max.	0.05 mm (0.002 in.)
	Commutator O.D.		28.0 mm (1.10 in.)	27.0 mm (1.06 in.)
	Brush length		14.0—14.5 mm (0.55—0.57 in.)	9.0 mm (0.35 in.)
	Brush spring tension		13.7—17.7 N (1.40—1.80 kgf, 3.09—3.97 lbf)	

Engine Assembly

Item	Measurement	Qualification	Standard or New	Service Limit
Compression	Pressure	Minimum	930 kPa (9.5 kgf/cm ² , 135 psi)	————
	Check the engine with the starter cranking	Maximum variation	200 kPa (2.0 kgf/cm ² , 28 psi)	————

Cylinder Head

Item	Measurement	Qualification	Standard or New	Service Limit	
Head	Warpage		————	0.05 mm (0.002 in.)	
	Height		103.95—104.05 mm (4.093—4.096 in.)	————	
Camshaft	End play		0.05—0.20 mm (0.002—0.008 in.)	0.4 mm (0.02 in.)	
	Camshaft-to-holder oil clearance	No. 1 journal	0.030—0.069 mm (0.001—0.003 in.)	0.15 mm (0.006 in.)	
		No. 2, 3, 4, 5 journals	0.060—0.099 mm (0.002—0.004 in.)	0.15 mm (0.006 in.)	
	Total runout		0.03 mm (0.001 in.) max.	0.04 mm (0.002 in.)	
	Cam lobe height (K20A3 engine)	Intake, primary		33.925 mm (1.3356 in.)	————
		Intake, secondary		29.638 mm (1.1668 in.)	————
		Exhaust		34.092 mm (1.3422 in.)	————
	Cam lobe height [K20A2 (2002-2004 models), K20Z1 (2005-2006 models) engines]	Intake, primary		32.791 mm (1.2910 in.)	————
		Intake, mid		35.534 mm (1.3990 in.)	————
		Intake, secondary		32.678 mm (1.2865 in.)	————
		Exhaust, primary		32.772 mm (1.2902 in.)	————
		Exhaust, mid		34.768 mm (1.3688 in.)	————
		Exhaust, secondary		32.661 mm (1.2859 in.)	————

(cont'd)

Standards and Service Limits

Cylinder Head (cont'd)

Item	Measurement	Qualification	Standard or New	Service Limit
Valve	Clearance (cold)	Intake	0.21—0.25 mm (0.008—0.010 in.)	———
		Exhaust (K20A3 engine)	0.28—0.32 mm (0.011—0.013 in.)	———
		Exhaust [K20A2 (2002-2004 models), K20Z1 (2005-2006 models) engines]	0.25—0.29 mm (0.010—0.011 in.)	———
	Stem O.D.	Intake	5.475—5.485 mm (0.2156—0.2159 in.)	5.445 mm (0.214 in.)
		Exhaust	5.450—5.460 mm (0.2146—0.2150 in.)	5.42 mm (0.213 in.)
	Stem-to-guide clearance	Intake	0.030—0.055 mm (0.0012—0.0022 in.)	0.08 mm (0.003 in.)
Exhaust		0.055—0.080 mm (0.0022—0.0031 in.)	0.11 mm (0.004 in.)	
Valve seat	Width	Intake	1.25—1.55 mm (0.049—0.061 in.)	2.00 mm (0.079 in.)
		Exhaust	1.25—1.55 mm (0.049—0.061 in.)	2.00 mm (0.079 in.)
	Stem installed height	Intake	44.0—44.5 mm (1.73—1.75 in.)	44.7 mm (1.76 in.)
		Exhaust	44.1—44.6 mm (1.74—1.76 in.)	44.8 mm (1.76 in.)
Valve spring	Free length (K20A3 engine)	Intake	47.61 mm (1.874 in.)	———
		Exhaust	NIPPON HATSUJO: 49.64 mm (1.954 in.) CHUO HATSUJO: 49.63 mm (1.954 in.)	———
	Free length [K20A2 (2002 model) engine]	Intake, inner	45.22 mm (1.780 in.)	———
		Exhaust, inner	45.50 mm (1.791 in.)	———
		Intake, outer	50.86 mm (2.002 in.)	———
		Exhaust, outer	51.81 mm (2.040 in.)	———
	Free length [K20A2 (2003-2004 models), K20Z1 (2005-2006 models) engines]	Intake	49.77 mm (1.959 in.)	———
		Exhaust	50.39 mm (1.984 in.)	———
Valve guide	I.D.	Intake	5.515—5.530 mm (0.2171—0.2177 in.)	5.55 mm (0.219 in.)
		Exhaust	5.515—5.530 mm (0.2171—0.2177 in.)	5.55 mm (0.219 in.)
	Installed height	Intake	15.2—16.2 mm (0.598—0.638 in.)	———
		Exhaust	15.5—16.5 mm (0.610—0.650 in.)	———
Rocker arm	Arm-to-shaft clearance	Intake	0.025—0.052 mm (0.0010—0.0020 in.)	0.08 mm (0.003 in.)
		Exhaust (K20A3 engine)	0.018—0.056 mm (0.0007—0.0022 in.)	0.08 mm (0.003 in.)
		Exhaust [K20A2 (2002-2004 models), K20Z1 (2005-2006 models) engines]	0.025—0.052 mm (0.0010—0.0020 in.)	0.08 mm (0.003 in.)

Engine Block

Item	Measurement	Qualification	Standard or New	Service Limit
Block	Warpage of deck		0.07 mm (0.003 in.) max.	0.10 mm (0.004 in.)
	Bore diameter	A or I	86.010—86.020 mm (3.3862—3.3866 in.)	86.070 mm (3.3886 in.)
		B or II	86.000—86.010 mm (3.3858—3.3862 in.)	86.070 mm (3.3886 in.)
	Bore taper		————	0.05 mm (0.002 in.)
	Reboring limit		————	0.25 mm (0.01 in.)
Piston	Skirt O.D. at 11 mm (0.4 in.) from bottom of skirt	No letter or A	85.980—85.990 mm (3.3850—3.3854 in.)	85.930 mm (3.3831 in.)
		Letter B	85.970—85.980 mm (3.3846—3.3850 in.)	85.920 mm (3.3827 in.)
	Clearance in cylinder		0.020—0.040 mm (0.0008—0.0016 in.)	0.05 mm (0.002 in.)
	Ring groove width	Top (K20A3 engine)	1.220—1.230 mm (0.0481—0.0484 in.)	1.25 mm (0.049 in.)
		Top [K20A2 (2002-2004 models), K20Z1 (2005-2006 models) engines]	1.235—1.245 mm (0.0486—0.0490 in.)	1.265 mm (0.0498 in.)
		Second (K20A3 engine)	1.220—1.230 mm (0.0481—0.0484 in.)	1.25 mm (0.049 in.)
		Second [K20A2 (2002-2004 models), K20Z1 (2005-2006 models) engines]	1.230—1.240 mm (0.0484—0.0488 in.)	1.260 mm (0.0496 in.)
Oil		2.005—2.025 mm (0.0789—0.0797 in.)	2.05 mm (0.081 in.)	

(cont'd)

Standards and Service Limits

Engine Block (cont'd)

Item	Measurement	Qualification	Standard or New	Service Limit
Piston ring	Ring-to-groove clearance	Top (K20A3 engine)	0.035—0.060 mm (0.0014—0.0024 in.)	0.13 mm (0.005 in.)
		Top [K20A2 (2002-2004 models), K20Z1 (2005-2006 models) engines]	0.040—0.065 mm (0.0016—0.0026 in.)	0.13 mm (0.005 in.)
		Second (K20A3 engine)	0.030—0.055 mm (0.0012—0.0022 in.)	0.13 mm (0.005 in.)
		Second [K20A2 (2002-2004 models), K20Z1 (2005-2006 models) engines]	0.045—0.070 mm (0.0018—0.0028 in.)	0.13 mm (0.005 in.)
	Ring end gap	Top	0.20—0.35 mm (0.008—0.014 in.)	0.60 mm (0.024 in.)
		Second (K20A3 engine)	0.40—0.55 mm (0.016—0.022 in.)	0.70 mm (0.028 in.)
		Second [K20A2 (2002-2004 models), K20Z1 (2005-2006 models) engines]	0.50—0.65 mm (0.020—0.026 in.)	0.75 mm (0.030 in.)
		Oil (K20A3 engine)	0.25—0.65 mm (0.010—0.026 in.)	0.75 mm (0.030 in.)
		Oil [K20A2 (2002-2004 models), K20Z1 (2005-2006 models) engines]	0.20—0.70 mm (0.008—0.028 in.)	0.80 mm (0.031 in.)
Piston pin	O.D.		21.961—21.965 mm (0.8646—0.8648 in.)	21.953 mm (0.8643 in.)
	Pin-to-piston clearance		—0.005 to +0.002 mm (—0.00020 to +0.00008 in.)	0.005 mm (0.0002 in.)
Connecting rod	Pin-to-rod clearance		0.005—0.015 mm (0.0002—0.0006 in.)	0.02 mm (0.0008 in.)
	Small-end bore diameter		21.970—21.976 mm (0.8650—0.8652 in.)	————
	Large-end bore diameter	K20A3 engine	48.0 mm (1.89 in.)	————
		K20A2 (2002-2004 models), K20Z1 (2005-2006 models) engines	51.0 mm (2.01 in.)	————
	End play		0.15—0.30 mm (0.006—0.012 in.)	0.40 mm (0.016 in.)

Item	Measurement	Qualification	Standard or New	Service Limit
Crankshaft	Main journal diameter	No. 1 journal No. 2 journal No. 4 journal No. 5 journal (K20A3 engine)	54.984—55.008 mm (2.1648—2.1657 in.)	————
		No. 1 journal No. 2 journal No. 4 journal No. 5 journal [K20A2 (2002-2004 models), K20Z1 (2005-2006 models) engines]	54.980—55.004 mm (2.1646—2.1655 in.)	————
		No. 3 journal (K20A3 engine)	54.976—55.000 mm (2.1644—2.1654 in.)	————
		No. 3 journal [K20A2 (2002-2004 models), K20Z1 (2005-2006 models) engines]	54.974—54.996 mm (2.1644—2.1652 in.)	————
		Rod journal diameter	K20A3 engine	44.976—45.000 mm (1.7707—1.7717 in.)
		K20A2 (2002-2004 models), K20Z1 (2005-2006 models) engines	47.976—48.000 mm (1.8888—1.8898 in.)	————
	Rod/main journal taper		0.005 mm (0.0002 in.)	0.010 mm (0.0004 in.)
	Rod/main journal out-of-round		0.005 mm (0.0002 in.)	0.010 mm (0.0004 in.)
	End play		0.10—0.35 mm (0.004—0.014 in.)	0.45 mm (0.018 in.)
	Runout	K20A3 engine	0.03 mm (0.0012 in.) max.	0.04 mm (0.0016 in.)
	K20A2 (2002-2004 models), K20Z1 (2005-2006 models) engines	0.02 mm (0.0008 in.) max.	0.03 mm (0.0012 in.)	
Crankshaft bearing	Main bearing-to-journal oil clearance	No. 1 journal No. 2 journal No. 4 journal No. 5 journal	0.017—0.041 mm (0.0007—0.0016 in.)	0.050 mm (0.0020 in.)
		No. 3 journal	0.025—0.049 mm (0.0010—0.0019 in.)	0.055 mm (0.0022 in.)
	Rod bearing clearance	K20A3 engine	0.020—0.050 mm (0.0008—0.0020 in.)	0.060 mm (0.0024 in.)
		K20A2 (2002-2004 models), K20Z1 (2005-2006 models) engines	0.033—0.061 mm (0.0013—0.0024 in.)	0.072 mm (0.0028 in.)

Standards and Service Limits

Engine Lubrication

Item	Measurement	Qualification	Standard or New	Service Limit
Engine oil	Capacity (K20A3 engine)	Engine overhaul	5.3 L (5.6 US qt)	
		Engine, including filter	4.2 L (4.4 US qt)	
		Oil change, without filter	4.0 L (4.2 US qt)	
	Capacity [K20A2 (2002-2004 models), K20Z1 (2005-2006 models) engines]	Engine overhaul	5.8 L (6.1 US qt)	
		Engine, including filter	4.7 L (5.0 US qt)	
		Oil change, without filter	4.5 L (4.8 US qt)	
Oil pump	Inner-to-outer rotor clearance		0.02—0.15 mm (0.001—0.006 in.)	0.20 mm (0.008 in.)
	Pump housing-to-outer rotor clearance		0.15—0.21 mm (0.006—0.008 in.)	0.23 mm (0.009 in.)
	Pump housing-to-rotor axial clearance		0.02—0.07 mm (0.001—0.003 in.)	0.12 mm (0.005 in.)
	Relief valve, oil pressure with oil temperature at 176 °F (80 °C)	At idle	70 kPa (0.7 kgf/cm ² , 10 psi) min.	
		At 3,000 rpm	300 kPa (3.1 kgf/cm ² , 44 psi) min.	

Cooling

Item	Measurement	Qualification	Standard or New
Radiator	Coolant capacities (Includes engine, heater, hoses, and reservoir) Use ACURA Long Life Antifreeze/ Coolant Type 2	M/T: engine overhaul	6.4 L (1.69 US gal)
		M/T: coolant change	5.1 L (1.35 US gal)
		A/T: engine overhaul	6.3 L (1.66 US gal)
		A/T: coolant change	5.0 L (1.32 US gal)
Reservoir	Coolant capacity		0.5 L (0.13 US gal)
Radiator cap	Opening pressure		93—123 kPa (0.95—1.25 kgf/cm ² , 14—18 psi)
Thermostat	Opening temperature	Begins to open	169—176 °F (76—80 °C)
		Fully open	194 °F (90 °C)
	Valve lift at fully open		8.0 mm (0.31 in.) min.
Radiator fan switch	Thermoswitch "ON" temperature		196—203 °F (91—95 °C)
	Thermoswitch "OFF" temperature		Subtract 5—15 °F (3—8 °C) from actual "ON" temperature

Fuel and Emissions

Item	Measurement	Qualification	Standard or New
Fuel pressure regulator	Pressure with fuel pressure gauge connected		320—370 kPa (3.3—3.8 kgf/cm ² , 47—54 psi)
Fuel tank	Capacity		50 L (13.2 US gal)
Engine idle	Idle speed without load	K20A2 engine (2002-2004 models) in neutral	700±50 rpm
		K20A3 engine (M/T) in neutral	700±50 rpm
		K20A3 engine (A/T) in N or P position	700±50 rpm
		K20Z1 engine (2005-2006 models) in neutral	800±50 rpm
	Idle speed with high electric load (A/C switch ON, temperature set to Max Cool, blower fan on High, rear window defogger ON (if applicable, and headlights on high beam)	K20A2 engine (2002-2004 models) in neutral	780±50 rpm
		K20A3 engine (2002-2004 models) (M/T) in neutral	720±50 rpm
		K20A3 engine (2002-2004 models) (A/T) in N or P position	720±50 rpm
		K20A3 engine (2005-2006 models) (M/T) in neutral	700±50 rpm
		K20A3 engine (2005-2006 models) (A/T) in N or P position	700±50 rpm
		K20Z1 engine (2005-2006 models) in neutral	850±50 rpm

Clutch

Item	Measurement	Qualification	Standard or New	Service Limit
Clutch pedal	Height from the floor		197 mm (7.76 in.)	_____
	Stroke		130—140 mm (5.12—5.51 in.)	_____
	Play		10—16 mm (0.39—0.63 in.)	_____
	Disengagement height from the floor		115 mm (4.53 in.) min.	_____
Flywheel	Runout on clutch mating surface		0.05 mm (0.002 in.) max.	0.15 mm (0.006 in.)
Clutch disc	Rivet head depth		1.65—2.25 mm (0.065—0.089 in.) min.	0.7 mm (0.03 in.)
	Thickness		8.3—8.9 mm (0.33—0.35 in.)	6.0 mm (0.24 in.)
Pressure plate	Warpage		0.03 mm (0.001 in.) max.	0.15 mm (0.006 in.)
	Height if diaphragm spring fingers	Measured with special tool and feeler gauge	0.6 mm (0.02 in.) max.	0.8 mm (0.03 in.)

Standards and Service Limits

Manual Transmission and M/T Differential (5-speed)

Item	Measurement	Qualification	Standard or New	Service Limit
Transmission fluid	Capacity	Fluid change	1.5 L (1.6 US qt)	
	Use Acura MTF	Overhaul	1.7 L (1.8 US qt)	
Mainshaft	End play		0.11—0.17 mm (0.004—0.007 in.)	Adjust
	Diameter of bushing surface		20.80—20.85 mm (0.819—0.821 in.)	20.75 mm (0.817 in.)
	Diameter of distance collar		31.984—32.000 mm (1.2594—1.2598 in.)	31.93 mm (1.257 in.)
	Diameter of ball bearing contact area (clutch housing side)		27.977—27.990 mm (1.1015—1.1020 in.)	27.92 mm (1.099 in.)
	Diameter of needle bearing contact area		38.984—39.000 mm (1.5348—1.5354 in.)	38.93 mm (1.533 in.)
	Diameter of ball bearing contact area (transmission housing side)		27.987—28.000 mm (1.1019—1.1024 in.)	27.93 mm (1.100 in.)
	Runout		0.02 mm (0.001 in.) max.	0.05 mm (0.002 in.)
Mainshaft 3rd, 4th, and 5th gear	I.D.		44.009—44.025 mm (1.7326—1.7333 in.)	44.08 mm (1.735 in.)
	End play		0.06—0.16 mm (0.002—0.006 in.)	0.25 mm (0.010 in.)
	Thickness		23.92—23.97 mm (0.941—0.944 in.)	23.80 mm (0.937 in.)
Countershaft	Diameter of needle bearing contact area (clutch housing side)		40.000—40.015 mm (1.5748—1.5754 in.)	39.95 mm (1.5723 in.)
	Diameter of distance collar contact area		39.937—39.950 mm (1.5723—1.5728 in.)	39.883 mm (1.5702 in.)
	Diameter of ball bearing contact area (transmission housing side)		30.020—30.033 mm (1.1819—1.1824 in.)	29.97 mm (1.180 in.)
	Runout		0.02 mm (0.001 in.) max.	0.05 mm (0.002 in.)
	35 mm shim-to-bearing inner race clearance		0.04—0.10 mm (0.0016—0.0039 in.)	Adjust
Countershaft 1st gear	I.D.		52.010—52.029 mm (2.0476—2.0484 in.)	52.08 mm (2.050 in.)
	End play		0.06—0.16 mm (0.002—0.006 in.)	0.25 mm (0.010 in.)
	Thickness		22.92—22.97 mm (0.902—0.904 in.)	22.87 mm (0.900 in.)
Countershaft 2nd gear	I.D.		52.010—52.029 mm (2.0476—2.0484 in.)	52.08 mm (2.050 in.)
	End play		0.06—0.16 mm (0.002—0.006 in.)	0.25 mm (0.010 in.)
	Thickness		27.92—27.97 mm (1.099—1.101 in.)	27.87 mm (1.097 in.)
Countershaft 1st gear distance collar	I.D.		39.95—39.96 mm (1.5728—1.5732 in.)	39.97 mm (1.574 in.)
	O.D.		46.989—47.000 mm (1.8499—1.8504 in.)	46.94 mm (1.848 in.)
	Length		23.03—23.08 mm (0.907—0.909 in.)	——
Countershaft 2nd gear distance collar	I.D.		39.95—39.96 mm (1.5728—1.5732 in.)	39.97 mm (1.574 in.)
	O.D.		46.989—47.000 mm (1.8499—1.8504 in.)	46.94 mm (1.848 in.)
	Length		28.03—28.08 mm (1.104—1.106 in.)	——

Item	Measurement	Qualification	Standard or New	Service Limit
Mainshaft 4th and 5th gears distance collar	I.D.		32.00—32.01 mm (1.2598—1.2602 in.)	32.02 mm (1.261 in.)
	O.D.		38.989—39.000 mm (1.5350—1.5354 in.)	38.94 mm (1.533 in.)
	Length	A B	51.95—52.05 mm (2.045—2.049 in.) 24.03—24.08 mm (0.946—0.948 in.)	———— ————
MBS distance collar	I.D.		28.00—28.01 mm (1.102—1.103 in.)	28.02 mm (1.103 in.)
	Length		23.95—24.05 mm (0.943—0.947 in.)	————
Reverse idler gear	I.D.		20.016—20.043 mm (0.7880—0.7891 in.)	20.90 mm (0.832 in.)
	Gear-to-reverse gear shaft clearance		0.036—0.084 mm (0.0014—0.0033 in.)	0.16 mm (0.006 in.)
Synchro ring	Ring-to-gear clearance	Ring pushed against gear	0.70—1.49 mm (0.028—0.059 in.)	0.4 mm (0.016 in.)
Triple cone synchro	Outer synchro ring-to-synchro cone clearance	Ring pushed against gear	0.70—1.19 mm (0.028—0.047 in.)	0.3 mm (0.012 in.)
	Synchro cone-to-gear clearance	Ring pushed against gear	0.50—1.04 mm (0.020—0.041 in.)	0.3 mm (0.012 in.)
	Outer synchro ring-to-gear cone clearance	Ring pushed against gear	0.95—1.68 mm (0.037—0.066 in.)	0.6 mm (0.024 in.)
Shift fork	Finger thickness		7.4—7.6 mm (0.29—0.30 in.)	————
	Fork-to-synchro sleeve clearance		0.35—0.65 mm (0.014—0.026 in.)	1.0 mm (0.039 in.)
Reverse shift fork	Finger thickness		13.4—13.7 mm (0.527—0.539 in.)	————
	Fork-to-reverse idler gear clearance		0.20—0.59 mm (0.007—0.024 in.)	1.3 mm (0.051 in.)
Shift arm	I.D.		13.973—14.000 mm (0.5501—0.5512 in.)	————
	Shift fork diameter at contact area		16.9—17.0 mm (0.665—0.669 in.)	————
	Shift arm-to-shift lever clearance		0.2—0.5 mm (0.007—0.020 in.)	0.62 mm (0.024 in.)
Select lever	Finger width		14.85—14.95 mm (0.585—0.589 in.)	————
Change lever	Shaft-to-select lever clearance		0.05—0.25 mm (0.002—0.010 in.)	0.50 mm (0.020 in.)
	Groove (to select lever)		15.00—15.10 mm (0.591—0.594 in.)	————
	Shaft-to-shift arm clearance		0.013—0.070 mm (0.0005—0.0028 in.)	0.1 mm (0.004 in.)
M/T differential carrier	Pinion shaft contact area I.D.		18.010—18.028 mm (0.7091—0.7098 in.)	————
	Carrier-to-pinion shaft clearance		0.027—0.057 mm (0.0011—0.0022 in.)	0.1 mm (0.004 in.)
	Driveshaft contact area I.D.		28.025—28.045 mm (1.1033—1.1041 in.)	————
M/T differential pinion gear	Backlash		0.05—0.15 mm (0.002—0.006 in.)	————
	I.D.		18.042—18.066 mm (0.7103—0.7113 in.)	————
	Pinion gear-to-pinion shaft clearance		0.059—0.095 mm (0.0023—0.0037 in.)	0.15 mm (0.006 in.)
80 mm shim	80 mm shim-to-bearing outer race clearance in transmission housing		0—0.10 mm (0—0.0039 in.)	Adjust

Standards and Service Limits

Manual Transmission and M/T Differential (6-speed)

Item	Measurement	Qualification	Standard or New	Service Limit
Transmission fluid	Capacity	Fluid change	1.5 L (1.6 US qt)	
	Use Acura MTF	Overhaul	1.7 L (1.8 US qt)	
Mainshaft	End play		0.11—0.17 mm (0.004—0.007 in.)	Adjust
	Diameter of bushing surface		20.80—20.85 mm (0.819—0.821 in.)	20.75 mm (0.817 in.)
	Diameter of distance collar		31.984—32.000 mm (1.2594—1.2598 in.)	31.93 mm (1.257 in.)
	Diameter of ball bearing contact area (clutch housing side)		27.977—27.990 mm (1.1015—1.1020 in.)	27.92 mm (1.099 in.)
	Diameter of needle bearing contact area		38.984—39.000 mm (1.5348—1.5354 in.)	38.93 mm (1.533 in.)
	Diameter of ball bearing contact area (transmission housing side)		27.987—28.000 mm (1.1019—1.1024 in.)	27.93 mm (1.100 in.)
	Runout		0.02 mm (0.001 in.) max.	0.05 mm (0.002 in.)
Mainshaft 3rd, 4th, and 5th gear	I.D.		44.009—44.025 mm (1.7326—1.7333 in.)	44.08 mm (1.735 in.)
	End play		0.06—0.16 mm (0.002—0.006 in.)	0.25 mm (0.010 in.)
	Thickness		23.92—23.97 mm (0.941—0.944 in.)	23.80 mm (0.937 in.)
Mainshaft 6th gear	I.D.		40.009—40.025 mm (1.5752—1.5758 in.)	40.08 mm (1.578 in.)
	End play		0.06—0.16 mm (0.002—0.006 in.)	0.25 mm (0.010 in.)
	Thickness		23.92—23.97 mm (0.941—0.944 in.)	23.80 mm (0.937 in.)
Countershaft	Diameter of needle bearing contact area (clutch housing side)		35.000—35.015 mm (1.3780—1.3785 in.)	34.95 mm (1.3760 in.)
	Diameter of distance collar contact area		39.937—39.950 mm (1.5723—1.5728 in.)	39.883 mm (1.5702 in.)
	Diameter of ball bearing contact area (transmission housing side)		30.020—30.033 mm (1.1819—1.1824 in.)	29.97 mm (1.180 in.)
	Runout		0.02 mm (0.001 in.) max.	0.05 mm (0.002 in.)
	35 mm shim-to-bearing inner race clearance		0.04—0.10 mm (0.0016—0.0039 in.)	Adjust
Countershaft 1st gear	I.D.		52.010—52.029 mm (2.0476—2.0484 in.)	52.08 mm (2.050 in.)
	End play		0.06—0.16 mm (0.002—0.006 in.)	0.25 mm (0.010 in.)
	Thickness		22.92—22.97 mm (0.902—0.904 in.)	22.87 mm (0.900 in.)
Countershaft 2nd gear	I.D.		52.010—52.029 mm (2.0476—2.0484 in.)	52.08 mm (2.050 in.)
	End play		0.06—0.16 mm (0.002—0.006 in.)	0.25 mm (0.010 in.)
	Thickness		27.92—27.97 mm (1.099—1.101 in.)	27.87 mm (1.097 in.)
Countershaft 1st gear distance collar	I.D.		39.95—39.96 mm (1.5728—1.5732 in.)	39.97 mm (1.574 in.)
	O.D.		46.989—47.000 mm (1.8499—1.8504 in.)	46.94 mm (1.848 in.)
	Length		23.03—23.08 mm (0.907—0.909 in.)	—
Countershaft 2nd gear distance collar	I.D.		39.95—39.96 mm (1.5728—1.5732 in.)	39.97 mm (1.574 in.)
	O.D.		46.989—47.000 mm (1.8499—1.8504 in.)	46.94 mm (1.848 in.)
	Length		28.03—28.08 mm (1.104—1.106 in.)	—

Item	Measurement	Qualification	Standard or New	Service Limit
Mainshaft 4th and 5th gears distance collar	I.D.		32.00—32.01 mm (1.2598—1.2602 in.)	32.02 mm (1.261 in.)
	O.D.		38.989—39.000 mm (1.5350—1.5354 in.)	38.94 mm (1.533 in.)
	Length	A B	51.95—52.05 mm (2.045—2.049 in.) 24.03—24.08 mm (0.946—0.948 in.)	———— ————
Mainshaft 6th gear distance collar	I.D.		28.00—28.01 mm (1.102—1.103 in.)	28.02 mm (1.103 in.)
	O.D.		34.989—35.000 mm (1.3775—1.3779 in.)	34.940 mm (1.3756 in.)
	Length		24.03—24.08 mm (0.946—0.948 in.)	————
Reverse idler gear	I.D.		20.016—20.043 mm (0.7880—0.7891 in.)	20.90 mm (0.832 in.)
	Gear-to-reverse gear shaft clearance		0.036—0.084 mm (0.0014—0.0033 in.)	0.16 mm (0.006 in.)
Synchro ring (2005-2006 models)	Ring-to-gear clearance	Ring pushed against gear	0.70—1.49 mm (0.028—0.059 in.)	0.4 mm (0.016 in.)
Double cone synchro	Outer synchro ring-to-synchro cone clearance	Ring pushed against gear	0.70—1.19 mm (0.028—0.047 in.)	0.3 mm (0.012 in.)
	Synchro cone-to-gear clearance	Ring pushed against gear	0.50—1.04 mm (0.020—0.041 in.)	0.3 mm (0.012 in.)
	Outer synchro ring-to-gear cone clearance	Ring pushed against gear	0.95—1.68 mm (0.037—0.066 in.)	0.6 mm (0.024 in.)
Triple cone synchro	Outer synchro ring-to-synchro cone clearance	Ring pushed against gear	0.70—1.19 mm (0.028—0.047 in.)	0.3 mm (0.012 in.)
	Synchro cone-to-gear clearance	Ring pushed against gear	0.50—1.04 mm (0.020—0.041 in.)	0.3 mm (0.012 in.)
	Outer synchro ring-to-gear cone clearance	Ring pushed against gear	0.95—1.68 mm (0.037—0.066 in.)	0.6 mm (0.024 in.)
Shift fork	Finger thickness		7.4—7.6 mm (0.29—0.30 in.)	————
	Fork-to-synchro sleeve clearance		0.35—0.65 mm (0.014—0.026 in.)	1.0 mm (0.039 in.)
Reverse shift fork	Finger thickness		13.4—13.7 mm (0.527—0.539 in.)	————
	Fork-to-reverse idler gear clearance		0.20—0.59 mm (0.007—0.024 in.)	1.3 mm (0.051 in.)
Shift arm	I.D.		13.973—14.000 mm (0.5501—0.5512 in.)	————
	Shift fork diameter at contact area		16.9—17.0 mm (0.665—0.669 in.)	————
	Shift arm-to-shift lever clearance		0.2—0.5 mm (0.007—0.020 in.)	0.62 mm (0.024 in.)
Select lever	Finger width		14.85—14.95 mm (0.585—0.589 in.)	————
Change lever	Shaft-to-select lever clearance		0.05—0.25 mm (0.002—0.010 in.)	0.50 mm (0.020 in.)
	Groove (to select lever)		15.00—15.10 mm (0.591—0.594 in.)	————
	Shaft-to-shift arm clearance		0.013—0.070 mm (0.0005—0.0028 in.)	0.1 mm (0.004 in.)
M/T differential carrier	Pinion shaft contact area I.D.		18.010—18.028 mm (0.7091—0.7098 in.)	————
	Carrier-to-pinion shaft clearance		0.027—0.057 mm (0.0011—0.0022 in.)	0.1 mm (0.004 in.)
	Driveshaft contact area I.D.		28.025—28.045 mm (1.1033—1.1041 in.)	————
M/T differential pinion gear	Backlash		0.05—0.15 mm (0.002—0.006 in.)	————
	I.D.		18.042—18.066 mm (0.7103—0.7113 in.)	————
	Pinion gear-to-pinion shaft clearance		0.059—0.095 mm (0.0023—0.0037 in.)	0.15 mm (0.006 in.)
80 mm shim	80 mm shim-to-bearing outer race clearance in transmission housing		0—0.10 mm (0—0.0039 in.)	Adjust

Standards and Service Limits

Automatic Transmission and A/T Differential

Item	Measurement	Qualification	Standard or New	Service Limit
ATF (Automatic Transmission Fluid)	Capacity	Fluid change	2.9 L (3.1 US qt)	
	Use Acura ATF-Z1	Overhaul	6.5 L (6.9 US qt)	
ATF pressure	Line pressure	At 2,000 rpm in N or P position	900—960 kPa (9.2—9.8 kgf/cm ² , 130—140 psi)	850 kPa (8.7 kgf/cm ² , 120 psi)
	1st clutch pressure	At 2,000 rpm in 1st gear in M position	890—970 kPa (9.1—9.9 kgf/cm ² , 130—140 psi)	840 kPa (8.6 kgf/cm ² , 120 psi)
	2nd clutch pressure	At 2,000 rpm in 2nd gear in M position	890—970 kPa (9.1—9.9 kgf/cm ² , 130—140 psi)	840 kPa (8.6 kgf/cm ² , 120 psi)
	3rd clutch pressure	At 2,000 rpm in 3rd gear in M position	890—970 kPa (9.1—9.9 kgf/cm ² , 130—140 psi)	840 kPa (8.6 kgf/cm ² , 120 psi)
	4th clutch pressure	At 2,000 rpm in 4th gear in M position	890—970 kPa (9.1—9.9 kgf/cm ² , 130—140 psi)	840 kPa (8.6 kgf/cm ² , 120 psi)
	5th clutch pressure	At 2,000 rpm in 5th gear in M position	890—970 kPa (9.1—9.9 kgf/cm ² , 130—140 psi)	840 kPa (8.6 kgf/cm ² , 120 psi)
Torque converter	Stall speed Check with vehicle on level ground		2,100 rpm	1,950—2,250 rpm
Clutch	Clutch end plate-to-top disc clearance	1st	——	1.23—1.43 mm (0.048—0.056 in.)
		2nd	——	0.75—0.95 mm (0.030—0.037 in.)
		3rd	——	0.83—1.03 mm (0.033—0.041 in.)
		4th and 5th	——	0.73—0.93 mm (0.029—0.037 in.)
	Clutch return spring free length	1st, 2nd, and 3rd	50.8 mm (2.00 in.)	48.8 mm (1.92 in.)
		4th and 5th	33.5 mm (1.32 in.)	31.5 mm (1.24 in.)
	Clutch disc thickness		1.94 mm (0.076 in.)	——
	Clutch plate thickness	1st, 2nd, and 3rd	2.00 mm (0.079 in.)	When discolored
		4th and 5th (2002-2004 models)	2.00 mm (0.079 in.)	When discolored
		4th and 5th (2005-2006 models)	2.30 mm (0.090 in.)	When discolored
	1st and 3rd clutch end plate thickness	Mark 1	2.3 mm (0.091 in.)	When discolored
		Mark 2	2.4 mm (0.094 in.)	When discolored
		Mark 3	2.5 mm (0.098 in.)	When discolored
		Mark 4	2.6 mm (0.102 in.)	When discolored
		Mark 5	2.7 mm (0.106 in.)	When discolored
Mark 6		2.8 mm (0.110 in.)	When discolored	
Mark 7		2.9 mm (0.114 in.)	When discolored	
Mark 8		3.0 mm (0.118 in.)	When discolored	
Mark 9		3.1 mm (0.122 in.)	When discolored	
Mark 10		3.2 mm (0.126 in.)	When discolored	
Mark 11		3.3 mm (0.130 in.)	When discolored	
Mark 12		3.4 mm (0.134 in.)	When discolored	

Item	Measurement	Qualification	Standard or New	Service Limit
Clutch	2nd clutch end plate thickness	Mark 1	2.6 mm (0.102 in.)	When discolored
		Mark 2	2.7 mm (0.106 in.)	When discolored
		Mark 3	2.8 mm (0.110 in.)	When discolored
		Mark 4	2.9 mm (0.114 in.)	When discolored
		Mark 5	3.0 mm (0.118 in.)	When discolored
		Mark 6	3.1 mm (0.122 in.)	When discolored
		Mark 7	3.2 mm (0.126 in.)	When discolored
		Mark 8	3.3 mm (0.130 in.)	When discolored
		Mark 9	3.4 mm (0.134 in.)	When discolored
	4th and 5th clutch end plate thickness 2002 model (# 1000001—1021247)	Mark 11	3.1 mm (0.122 in.)	When discolored
		Mark 12	3.2 mm (0.126 in.)	When discolored
		Mark 13	3.3 mm (0.130 in.)	When discolored
		Mark 14	3.4 mm (0.134 in.)	When discolored
		Mark 15	3.5 mm (0.138 in.)	When discolored
		Mark 16	3.6 mm (0.142 in.)	When discolored
		Mark 17	3.7 mm (0.146 in.)	When discolored
		Mark 18	3.8 mm (0.150 in.)	When discolored
		Mark 19	3.9 mm (0.154 in.)	When discolored
	4th and 5th clutch end plate thickness 2002 model (# 1021248—) and 2003-2004 models	Mark 1	3.0 mm (0.118 in.)	When discolored
		Mark 2	3.1 mm (0.122 in.)	When discolored
		Mark 3	3.2 mm (0.126 in.)	When discolored
		Mark 4	3.3 mm (0.130 in.)	When discolored
		Mark 5	3.4 mm (0.134 in.)	When discolored
		Mark 6	3.5 mm (0.138 in.)	When discolored
		Mark 7	3.6 mm (0.142 in.)	When discolored
		Mark 8	3.7 mm (0.146 in.)	When discolored
		Mark 9	3.8 mm (0.150 in.)	When discolored
	4th and 5th clutch end plate thickness 2005-2006 models	Mark 1	2.1 mm (0.083 in.)	When discolored
		Mark 2	2.2 mm (0.087 in.)	When discolored
		Mark 3	2.3 mm (0.091 in.)	When discolored
		Mark 4	2.4 mm (0.094 in.)	When discolored
		Mark 5	2.5 mm (0.098 in.)	When discolored
		Mark 6	2.6 mm (0.102 in.)	When discolored
		Mark 7	2.7 mm (0.106 in.)	When discolored
		Mark 8	2.8 mm (0.110 in.)	When discolored
		Mark 9	2.9 mm (0.114 in.)	When discolored