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NOT FOR

RESELL

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Service Manual 1998

88hf, SPOONMAN, FFSLIDE

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INTRODI LCTION

How to Use This Manual

This manual is divided into 23 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.
- Inspection.
- 4. Testing/troubleshooting.
- 5. Repair.
- 6. Adjustments.

Special Information -

A ARMING Indicates a strong possibility of severe personal injury or loss of life if instructions are not followed.

CAUTION: Indicates a possibility of personal injury or equipment damage if instructions are not followed.

NOTICE

The purpose of these messages is to help prevent damage to the vehicle, other property, or the environment.

NOTE: Gives helpful information.

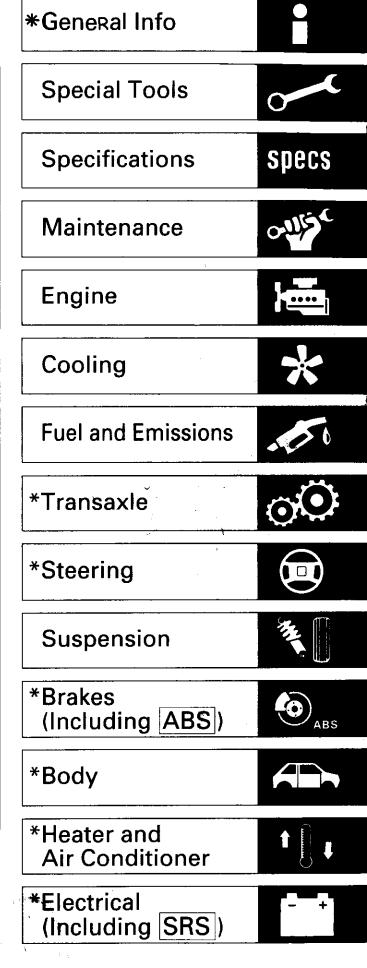
CAUTION: Detailed descriptions of standard workshop procedures, safety principles and service operations are not included. Please note that this manual contains warnings and cautions against some specific service methods which could cause PERSONAL INJURY, damage a vehicle, or make it unsafe. Please understand that these warnings cannot cover all conceivable ways in which service, whether or not recommended by HONDA, might be done, or of the possible hazardous consequences of every conceivable way, not could HONDA investigate all such ways. Anyone using service procedures or tools, whether or not recommended by HONDA, must satisfy himself thoroughly that neither personal safety nor vehicle safety will be jeopardized.

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 any time 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 test, figures, and tables.

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HONDA MOTOR CO., LTD.
Service Publication Office

As sections with * include SRS components; special precautions are required when servicing.

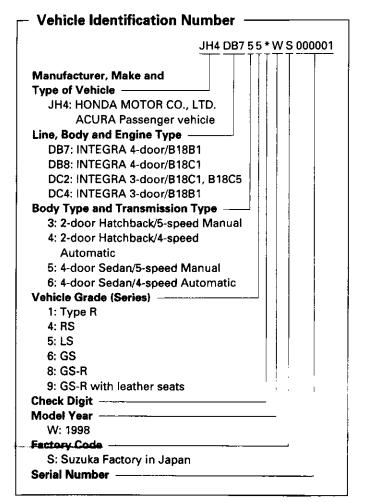


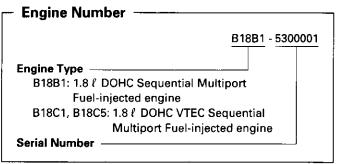
General Information

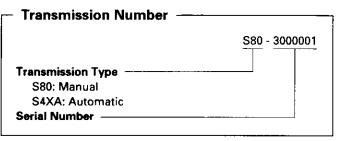
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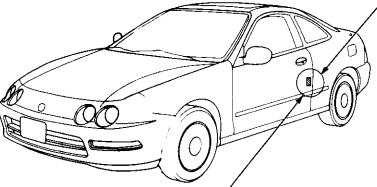
Chassis and Paint Codes

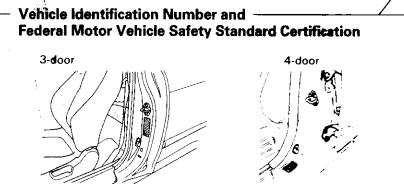
U.S. Model











Paint Co	de
Paint Code	Color
B-74P	Adriatic Blue Pearl
B-90P*3	Supersonic Blue Pearl
G-82P	Cypress Green Pearl
NH-0*3	Championship White
NH-538	Frost White
NH-583M* ³	New Vogue Silver Metallic
NH-592P*3	Flamenco Black Pearl
R-505P	Cayenne Red Pearl
R-81*3	Milano Red



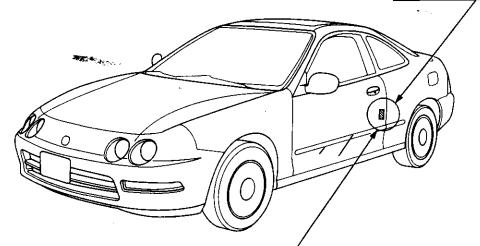
Canada Model

Vehicle Identification Number -JH4 DC2 38 * WS 800001 facturer, Make and Type of Vehicle JH4: HONDA MOTOR CO., LTD. **ACURA Passenger car** Line. Body and Engine Type DC2. INTEGRA 3-door/B18C1, B18C5 DC4: INTEGRA 3-door/B18B1 Body Type and Transmission Type 3 2-door Hatchback/5-speed Manual 4 2-door Hatchback/4-speed Automatic Vehicle Grade (Series) -1: Type R 4: RS 5: LS 6: LS with moonroof 7: GS 8: GS-R **Check Digit Model Year** W: 1998 Factory Code -S: Suzuka Factory in Japan Serial Number —

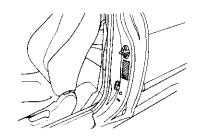
Engine Number	
	B18B1 - 57000C*
Engine Type	
B18B1: 1.8 & DOHC Sequentia	l Multiport
Fuel-injected engine	
B18C1, B18C5: 1.8 ℓ DOHC V1	EC Sequential
Multiport Fuel-injecte	d engine
Serial Number —	

Transmission Number ——	
	S80 - 3000001
Transmission Type ————	
S80: Manual	
S4XA: Automatic	
Serial Number	

COLOR NH-0

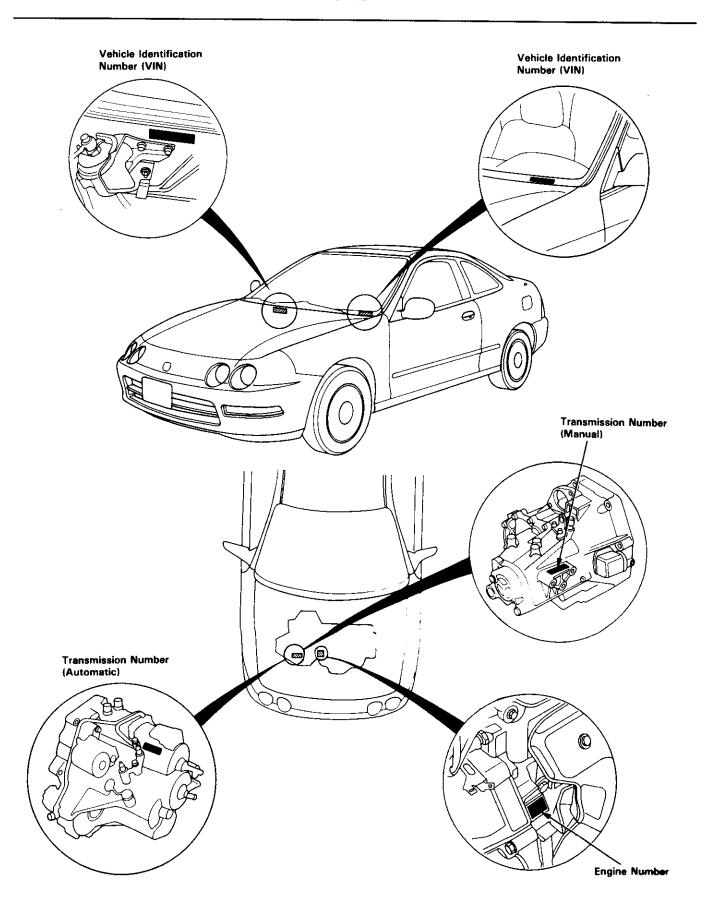


Vehicle Identification Number and Canadian Motor Vehicle Safety Standard Certification



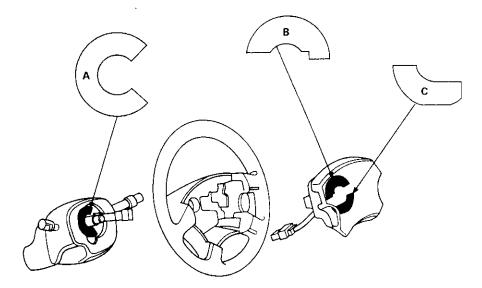
Paint Co	— Paint Code ————————————————————————————————————			
Paint Code	Color	٨		
B-90P	Supersonic Blue Pearl			
G-82P	Cypress Green Pearl	-		
NH-0	Championship White			
NH-592P	Starlight Black Pearl			
NH-597M	Citrus Silver Metallic			
R-81	Milano Red			

Identification Number Locations



Warning/Caution Label Locations





A: CABLE REEL CAUTION

SRS

INSTALLATION OF THE SRS CABLE REEL IS CRITICAL TO THE PROPER OPERATION OF THE SRS SYSTEM, REFER TO THE SERVICE MANUAL FOR DETAILED INSTALLATION INSTRUCTIONS.

B: DRIVER MODULE DANGER

*∧***DANGER**

EXPLOSIVE/FLAMMABLE

STORAGE TEMPERATURES MUST NOT EXCEED 200°F (93°C), FOR PROPER HANDLING, STORAGE, AND DISPOSAL PROCEDURES REFER TO SERVICE MANUAL, SRS SUPPLEMENT.

FIRST AID

IF CONTENTS ARE SWALLOWED, INDUCE VOMITING.
FOR EYE CONTACT, FLUSH EYES WITH WATER FOR 15
MINUTES. IN EVERY CASE, GET PROMPT MEDICAL ATTEN-

KEEP OUT OF REACH OF CHILDREN.

C: DRIVER MODULE WARNING

∆WARNING

THE AIRBAG INFLATOR IS EXPLOSIVE, AND IF ACCIDENTALLY DEPLOYED, CAN SERIOUSLY HURT OR KILL YOU.

- DO NOT USE ELECTRICAL TEST EQUIPMENT OR PROB-ING DEVICES. THEY CAN CAUSE ACCIDENTAL DEPLOY-MENT.
- NO SERVICEABLE PARTS INSIDE. DO NOT DISASSEM-BLE.
- PLACE AIRBAG UPRIGHT WHEN REMOVED.
- FOLLOW SERVICE MANUAL INSTRUCTIONS CAREFULLY.

D: SRS INFORMATION U.S. Model

WARNING

DEATH OR SERIOUS INJURY CAN OCCUR.

- CHILDREN AGES 12 AND UNDER CAN BE KILLED BY THE AIRBAG.
- THE BACK SEAT IS THE SAFEST PLACE FOR CHILDREN.
- NEVER PUT A REAR-FACING CHILD SEAT IN THE FRONT.
- SIT AS FAR BACK AS POSSIBLE FROM THE AIRBAG.
- ALWAYS USE SEAT BELTS AND CHILD RESTRAINTS.

Canada Model

CAUTION

TO AVOID SERIOUS INJURY:

- FOR MAXIMUM SAFETY PROTECTION IN ALL TYPES OF CRASHES, YOU MUST ALWAYS WEAR YOUR SAFETY BELT.
- DO NOT INSTALL REARWARD FACING CHILD SEATS IN ANY FRONT PASSENGER SEAT POSITION.
- DO NOT SIT OR LEAN UNNECESSARILY CLOSE TO THE AIRBAG.
- DO NOT PLACE ANY OBJECTS OVER THE AIR BAG OR BETWEEN THE AIR BAG AND YOURSELF.
- SEE THE OWNER'S MANUAL FOR FURTHER INFORMA-TION AND EXPLANATIONS.

E: ASSISTANT INFORMATION U.S. Model

AIR BAG WARNING FLIP VISOR OVER

F: STEERING COLUMN NOTICE

NOTICE

TO PREVENT SRS DAMAGE, REMOVE STEERING WHEEL BEFORE REMOVING STEERING SHAFT CONNECTING BOLT.

G: MONITOR NOTICE

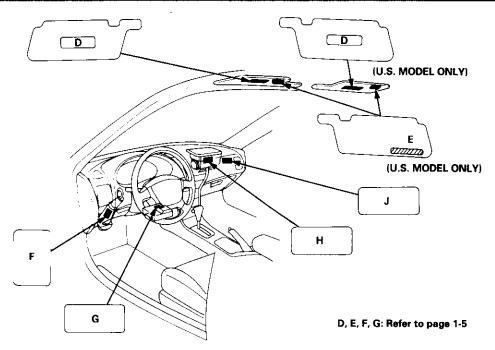
NOTICE SRS

- NO SERVICEABLE PARTS INSIDE
- REFER TO SERVICE MANUAL FOR DETAILED INSTRUC-TIONS.

(cont'd)

Warning/Caution Label Locations

(cont'd)



H: FRONT SEAT PASSENGER MODULE DANGER

^.BANGET

EXPLOSIVE/FLAMMABLE

STORAGE TEMPERATURES MUST NOT EXCEED 200°F (33°C). FOR PROPER HANDLING, STORAGE, AND DISPOSAL PROCEDURES, REFER TO SERVICE MANUAL, SRS SUPPLE-MENT.

FIRST AID

IF CONTENTS ARE SWALLOWED, INDUCE VOMITING.
FOR EYE CONTACT, FLUSH EYES WITH WATER FOR 15
MINUTES.

IN EVERY CASE, GET PROMPT MEDICAL ATTENTION.
KEEP OUT OF REACH OF CHILDREN.

∆WARNING

THE AIRBAG INFLATOR IS EXPLOSIVE, AND IF ACCIDENTALLY DEPLOYED, CAN SERIOUSLY HURT OR KILL YOU.

- DO NOT USE ELECTRICAL TEST EQUIPMENT OR PROB-ING DEVICES.
 - THEY CAN CAUSE ACCIDENTAL DEPLOYMENT.
- NO SERVICEABLE PARTS INSIDE. DO NOT DISASSEMBLE.
- PLACE AIRBAG UPRIGHT WHEN REMOVED.
- FOLLOW SERVICE MANUAL INSTRUCTIONS CAREFULLY.

I: SRS WARNING (ENGINE HOOD)

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

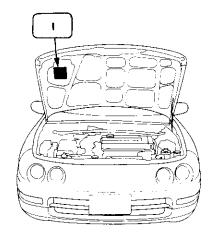
THIS VEHICLE IS EQUIPPED WITH DRIVER AND FRONT SEAT PASSENGER AIRBAGS.

ALL SRS ELECTRICAL WIRING AND CONNECTORS ARE COLORED YELLOW.

TAMPERING WITH, DISCONNECTING, OR USING ELECTRICAL TEST EQUIPMENT ON THE SRS WIRING CAN MAKE THE SYSTEM INOPERATIVE OR CAUSE ACCIDENTAL FIRING OF THE INFLATOR.

∆WARNING

THE AIRBAG INFLATOR IS EXPLOSIVE, AND IF ACCIDENTALLY DEPLOYED, CAN SERIOUSLY HURT YOU. FOLLOW SERVICE MANUAL INSTRUCTIONS CAREFULLY.



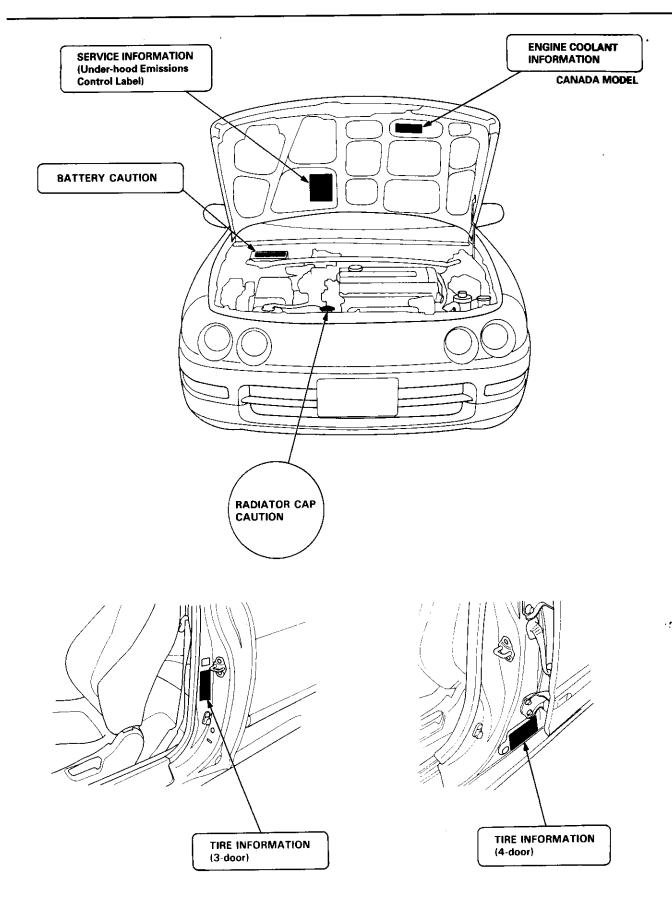
J: PASSENGER AIRBAG CAUTION U.S. Model

WARNING

CHILDREN CAN BE KILLED OR INJURED BY A PASSENGER AIRBAG.

THE BACK SEAT IS THE SAFEST PLACE FOR CHILDREN. AGES 12 AND UNDER. MAKE SURE ALL CHILDREN USE SEAT BELTS OR CHILD SEATS.

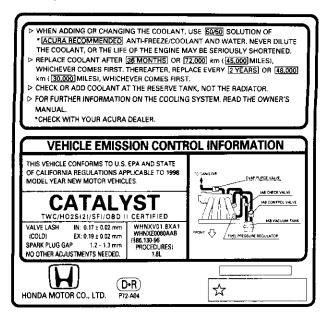




Under-hood Emissions Control Label

Emission Group Identification

Example:



50ST (50 States):

THIS VEHICLE CONFORMS TO THE U.S. EPA AND THE STATE OF CALIFORNIA REGULATIONS APPLICABLE TO 1998 MODEL YEAR NEW MOTOR VEHICLES.

49ST (49 States/Federal):

THIS VEHICLE CONFORMS TO THE U.S. EPA REGULATIONS APPLICABLE TO 1998 MODEL YEAR NEW MOTOR VEHICLES.

CAL (California):

THIS VEHICLE CONFORMS TO THE U.S. EPA AND STATE OF CALIFORNIA REGULATIONS APPLICABLE TO 1998 MODEL YEAR NEW PASSENGER CARS PROVIDED THAT THIS VEHICLE IS ONLY INTRODUCED INTO COMMERCE FOR SALE IN THE STATE OF CALIFORNIA.

Engine and Evaporative Families

Engine Family:	W HNX V 01.8 XA1
Model Year W: 1998	
Manufacturer HNX: Honda	
Туре —	
V: Light Duty Vehicle/Passenger	Car
Displacement —	
Sequence Characters —	
Evaporative Family:	W HNX E 0080 AAB
Model Year	
W: 1998	
Manufacturer	
HNX: Honda	
Type —	
E: EVAP	
Canister Work Capacity (grams) -	
Sequence Characters	

Lift and Support Points



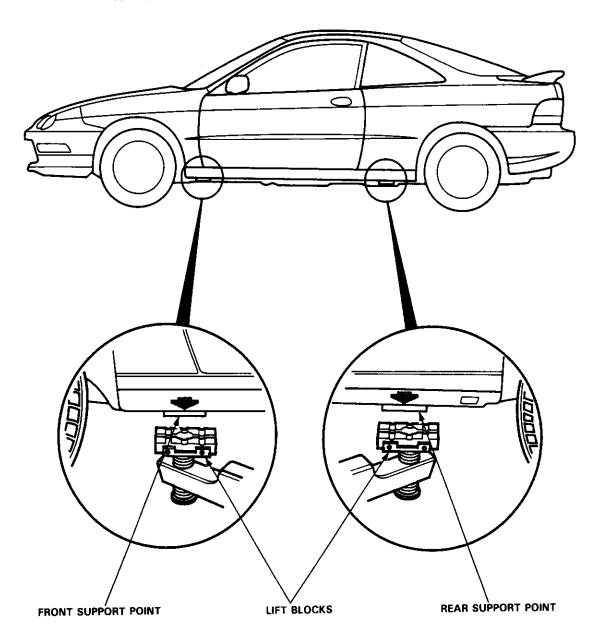
Lift and Safety Stands

AWARNING When heavy rear components such as suspension, fuel tank, spare tire hatch and trunk lid are to be removed, place additional weight in the luggage area before hoisting. When substantial weight is removed from the rear of the vehicle, the center of gravity may change and can cause the vehicle to tip forward on the hoist.

NOTE: Since each tire/wheel assembly weighs approximately 30 lbs (14 kg), placing the front wheels in the luggage area can assist with the weight distribution.

- 1. Place the lift blocks as shown.
- 2. Raise the hoist a few inches (centimeters), and rock the vehicle to be sure it is firmly supported.
- 3. Raise the hoist to full height, and inspect the lift points for solid support.

NOTE: Use the same support points to support the vehicle on safety stands.



Lift and Support Points

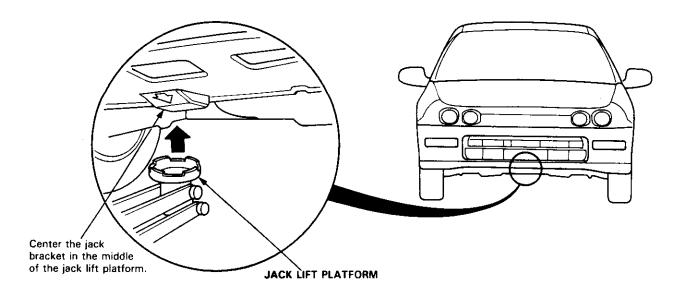
Floor Jack

- Set the parking brake, and block the wheels that are not being lifted.
- When lifting the rear of the vehicle, put the gearshift lever in reverse (Automatic transmission in P position).
- 3. Raise the vehicle high enough to insert the safety stands.
- Adjust and place the safety stands so the vehicle will be approximately level, then lower the vehicle onto them.

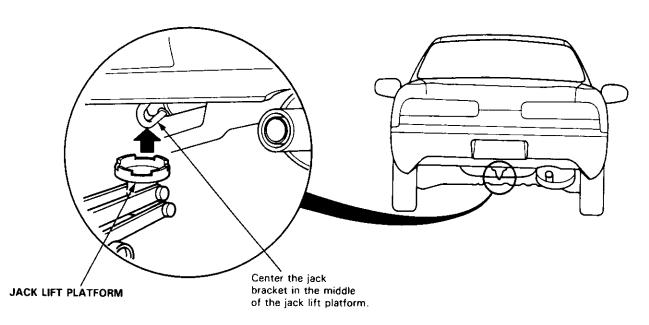
A WARNING

- Always use safety stands when working on or under any vehicle that is supported by only a jack.
- Never attempt to use a bumper jack for lifting or supporting the vehicle.

Front -



Rear



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.

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.

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.

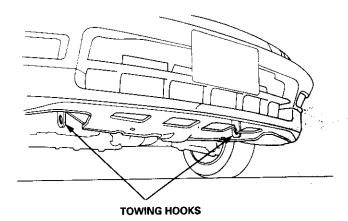
Automatic Transmission

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

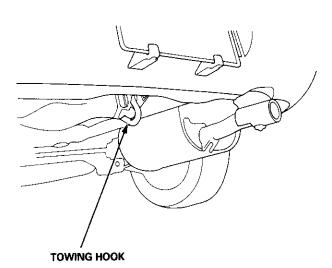
CAUTION:

- Improper towing preparation will damage the transmission. Follow the above procedure exactly. If you cannot shift the transmission or start the engine (automatic transmission), your vehicle must be transported on a flat-bed.
- It is best to tow the vehicle no farther than 50 miles (80 km), and keep the speed below 35 mph (55 km/h).
- Trying to lift or tow your vehicle by the bumpers will cause serious damage. The bumpers are not designed to support the vehicle's weight.

Front:



Rear:



Service Precautions

Parts Marking Locations

To deter vehicle theft, certain major components are marked with the vehicle identification number (VIN). Original parts will have self-adhesive labels or labels attached with a break-off bolt. Replacement body parts will have self-adhesive labels, and replacement engine and transmission parts will be stamped with a code for spare parts.

NOTE

- Be careful not to damage the parts marking labels during body repairs, and mask the labels before repainting.
- Label location letters without parenthesis indicate original parts. Letters with parenthesis indicate replacement parts.

Label Locations

A or (A): Engine

B or (B): Transmission

C or (C): Front Bumper

D or (D): Hood

E or (E): Trunk Lid (4 Door)

F or (F): Tail Gate (3 Door)

G or (G): Rear Bumper

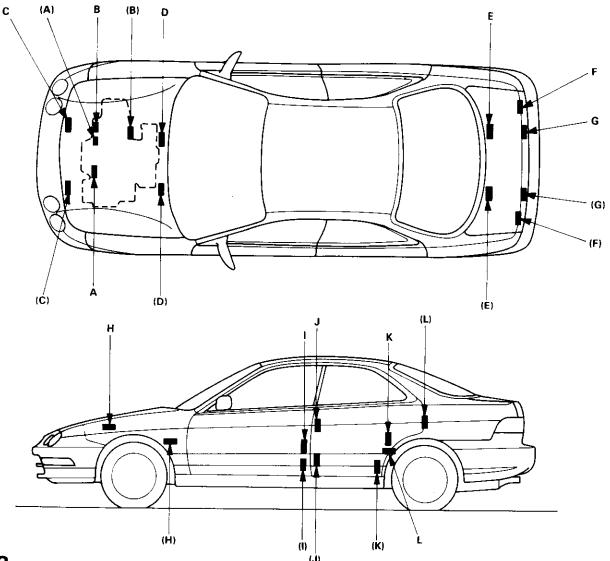
H or (H): Front Fender

Lor (I): Front Door

J or (J): Outer Rear Panel (3 Door)

K or (K): Rear Door (4 Door)

L or (L): Outer Rear Panel (4 Door)



specs

Specifications

Standards and Service Limits	3-2
Design Specifications	3-15
Body Specifications	3-18

Standards and Service Limits

Cylinder Head/Valve Train (B18B1 engine) — Section 6 —

	MEASUREME	NT	STANDARD (NEW)	SERVICE LIMIT
Compression	250 rpm and wide open throttle kPa (kgf/cm², psi)	Nominal Minimum Maximum variatio	1,370 (14.0, 199) 930 (9.5, 135) 200 (2.0, 28)	
Cylinder head	Warpage Height		131.95 – 132.05 (5.195 – 5.199)	0.05 (0.002)
Camshaft	End play Camshaft-to-holder oil clearance Total runout Cam lobe height	IN EX	0.05 - 0.15 (0.002 - 0.006) 0.030 - 0.069 (0.0012 - 0.0027) 0.03 (0.001) max. 33.716 (1.3274)	0.5 (0.02) 0.15 (0.006) 0.04 (0.002)
Valve	Valve clearance (Cold)* Valve stem O.D. Stem-to-guide clearance	IN E) IN E) IN E)	0.16 - 0.20 (0.006 - 0.008) 6.580 - 6.590 (0.2591 - 0.2594) 6.550 - 6.560 (0.2579 - 0.2583) 0.02 - 0.05 (0.001 - 0.002)	6.55 (0.258) 6.52 (0.257) 0.08 (0.003) 0.11 (0.004)
Valve seat	Width Stem installed height	IN E) IN E)	40.765 - 41.235 (1.6049 - 1.6234)	2.0 (0.08) 2.0 (0.08) 41.485 (1.6333) 43.485 (1.7120)
Valve spring	Free length (Reference)	IN NI CH EX	1	
Valve guide	I.D. Installed height	IN EX IN EX	13.75 - 14.25 (0.541 - 0.561)	6.65 (0.262) 6.65 (0.262)

^{*:} Measured between the camshaft and rocker arm.
NH: NIHON HATSUJO manufactured valve spring
CH: CHUO HATSUJO manufactured valve spring



Unit of length: mm (in)

	MEASUREMENT			STANDARD (NEW)	SERVICE LIMIT
Cylinder block	Warpage of deck surface Bore diameter Bore taper Reboring limit			0.07 (0.003) max. 81.00 - 81.02 (3.189 - 3.190)	0.10 (0.004) 81.07(3.192) 0.05 (0.002) 0.25 (0.010)
Piston	Skirt O.D. at 15 mm (0.6 in) from bottom of Clearance in cylinder Groove width (For ring) To Sec	p cond		80.98 - 80.99 (3.188 - 3.189) 0.01 - 0.04 (0.0004 - 0.0016) 1.030 - 1.040 (0.0406 - 0.0409) 1.230 - 1.240 (0.0484 - 0.0488) 2.805 - 2.820 (0.1104 - 0.1110)	80.97 (3.188) 0.05 (0.002) 1.06 (0.042) 1.26 (0.050) 2.84 (0.112)
Piston ring	Ring-to-groove clearance Tol	p cond	R T	0.045 - 0.070 (0.0018 - 0.0028) 0.040 - 0.065 (0.0016 - 0.0026) 0.045 - 0.070 (0.0018 - 0.0028)	0.13 (0.005) 0.13 (0.005) 0.13 (0.005)
	Ring end gap To Se Oil	cond	R T R T	0.20 - 0.35 (0.008 - 0.014) 0.20 - 0.30 (0.008 - 0.012) 0.40 - 0.55 (0.016 - 0.022) 0.20 - 0.50 (0.008 - 0.020) 0.20 - 0.45 (0.008 - 0.018)	0.60 (0.024) 0.60 (0.024) 0.70 (0.028) 0.70 (0.028) 0.70 (0.028)
Piston Pin	O.D. Pin-to-piston clearance			20.994 - 21.000 (0.8265 - 0.8268) 0.010 - 0.022 (0.0004 - 0.0009)	
Connecting rod	Pin-to-rod interference Small end bore diameter Large end bore diameter End play installed on crankshaft	ominal		0.013 - 0.032 (0.0005 - 0.0013) 20.968 - 20.981 (0.8255 - 0.8260) 48.0 (1.89) 0.15 - 0.30 (0.006 - 0.012)	0.40 (0.016)
Crankshaft	Main journal diameter No. 1, 2, 4 and 5 journals No. 3 journal Rod journal diameter Taper Out-of-round End play Runout			54.976 - 55.000 (2.1644 - 2.1654) 54.970 - 54.994 (2.1642 - 2.1651) 44.976 - 45.000 (1.7707 - 1.7717) 0.005 (0.0002) max. 0.005 (0.0002) max. 0.10 - 0.35 (0.004 - 0.014) 0.03 (0.001) max.	0.010 (0.0004) 0.010 (0.0004) 0.45 (0.018) 0.05 (0.002)
Bearing	Main bearing-to-journal oil clearance No. 1, 2, 4 and 5 journals No. 3 journal Rod bearing-to-journal oil clearance			0.024 - 0.042 (0.0009 - 0.0017) 0.030 - 0.048 (0.0012 - 0.0019) 0.020 - 0.038 (0.0008 - 0.0015)	0.050 (0.0020) 0.060 (0.0024) 0.050 (0.0020)

R: RIKEN manufactured piston ring
T: TEIKOKU PISTON RING manufactured piston ring

Standards and Service Limits

Cylinder Head/Valve Train (B18C1, B18C5 engines) — Section 6 — **MEASUREMENT** STANDARD (NEW) SERVICE LIMIT Compression 250 rpm and wide open throttle Nominal 1,860 (19.0, 270) Minimum kPa (kgf/cm², psi) 930 (9.5, 135) Maximum variation 200 (2.0, 28) Cylinder head Warpage 0.05 (0.002) Height 141.95 - 142.05 (5.589 - 5.593) Camshaft End play 0.05 - 0.15 (0.002 - 0.006)0.5 (0.02) Camshaft-to-holder oil clearance 0.050 - 0.089 (0.0020 - 0.0035)0.15 (0.006) Total runout 0.03 (0.001) max. 0.04 (0.002) Cam lobe height 1N Primary B18C1/B18C5 engine 33.411 (1.3154)/33.088 (1.3027) B18C1/B18C5 engine Mid 36.377 (1.4322)/36.865 (1.4138) Secondary B18C1/B18C5 engine 34.547 (1.3601)/34.732 (1.3674) EX Primary B18C1/B18C5 engine 33.111 (1.3036)/32.785 (1.2907) B18C1/B18C5 engine 35.720 (1.4063)/36.333 (1.4304) Secondary B18C1/B18C5 engine 34.381 (1.3536)/34.691 (1.3658) Valve Valve clearance (Cold)* 0.15 - 0.19 (0.006 - 0.007)EΧ 0.17 - 0.21 (0.007 - 0.008)Valve stem O.D. IN 5.475 - 5.485 (0.2156 - 0.2159) 5.445 (0.2144) EX 5.450 - 5.460 (0.2146 - 0.2150) 5.420 (0.2134) Stem-to-guide clearance IN 0.025 - 0.055 (0.0010 - 0.0022)0.08 (0.003) 0.050 - 0.080 (0.0020 - 0.0031)0.11(0.004)Valve seat Width IN B18C1 engine 1.25 - 1.55 (0.049 - 0.061) 2.0 (0.08) B18C5 engine 0.85 - 1.15 (0.033 - 0.045) 2.0 (0.08) B18C1 engine 1.25 - 1.55 (0.049 - 0.061) 2.0 (0.08) B18C5 engine 0.85 - 1.15 (0.033 - 0.045) 2.0 (0.08) Stem installed height IN 37.465 - 37.935 (1.4750 - 1.4935) 38.185 (1.5033) 37.165 - 37.635 (1.4632 - 1.4817) 37.885 (1.4915) Valve spring Free length (Reference) B18C1 engine: Outer 41.05 (1.616) Inner NH 36.16 (1.424) CH 36.19 (1.425) EX NH 41.96 (1.652) CH 41.94 (1.651) B18C5 engine: Outer 43.19 (1.700) Inner 36.84 (1.450) Outer 41.05 (1.616) Inner 36.16 (1.424) Valve guide I.D. 5.51 - 5.53 (0.217 - 0.218) IN 5.55 (0.219) EΧ 5.51 - 5.53 (0.217 - 0.218) 5.55 (0.219) Installed height IN 12.55 - 13.05 (0.494 - 0.514) EX 12.55 - 13.05 (0.494 - 0.514) Rocker arm Arm-to-shaft clearance IN 0.025 - 0.052 (0.0010 - 0.0020)0.08 (0.003) EX 0.025 - 0.052 (0.0010 - 0.0020)0.08 (0.003)

^{*:} Measured between the camshaft and rocker arm. NH: NIHON HATSUJO manufactured valve spring CH: CHUO HATSUJO manufactured valve spring



Unit of length: mm (in)

	MEASUREMENT		STANDARD (NEW)	SERVICE LIMIT
Cylinder block	Warpage of deck surface Bore diameter Bore taper Reboring limit		0.05 (0.002) max. 81.00 – 81.02 (3.189 – 3.190)	0.08 (0.003) 81.07 (3.192) 0.05 (0.002) 0.25 (0.010)
Piston		irt Top Second Oil	80.98 - 80.99 (3.188 - 3.189) 0.01 - 0.04 (0.0004 - 0.0016) 1.030 - 1.040 (0.0406 - 0.0409) 1.230 - 1.240 (0.0484 - 0.0488) 2.805 - 2.820 (0.1104 - 0.1110)	80.97 (3.188) 0.05 (0.002) 1.060 (0.0417) 1.260 (0.0496) 2.840 (0.1118)
Piston ring	Time to protect grown and the contract of	Top Second	0.045 - 0.070 (0.0018 - 0.0028) 0.040 - 0.065 (0.0016 - 0.0026)	0.13 (0.005) 0.13 (0.005)
	7 9 4 2 5-F	Top Second Oil	0.20 - 0.35 (0.008 - 0.014) 0.40 - 0.55 (0.016 - 0.022) 0.20 - 0.50 (0.008 - 0.020)	0.60 (0.024) 0.70 (0.028) 0.70 (0.028)
Piston Pin	O.D. Pin-to-piston clearance		20.994 - 21.000 (0.8265 - 0.8268) 0.010 - 0.022 (0.0004 - 0.0009)	
Connecting rod	Pin-to-rod interference Small end bore diameter Large end bore diameter End play installed on crankshaft	Nominal	0.017 - 0.036 (0.0007 - 0.0014) 20.964 - 20.997 (0.8254 - 0.8267) 48.0 (1.89) 0.15 - 0.30 (0.006 - 0.012)	0.40 (0.016)
Crankshaft	Main journal diameter No. 1, 2, 4 and 5 journals No. 3 journal Rod journal diameter Taper Out-of round End play Runout		54.976 - 55.000 (2.1644 - 2.1654) 54.974 - 54.998 (2.1643 - 2.1653) 44.976 - 45.000 (1.7707 - 1.7717) 0.005 (0.0002) max. 0.005 (0.0002) max. 0.10 - 0.35 (0.004 - 0.014) 0.03 (0.001) max.	0.010 (0.0004) 0.010 (0.0004) 0.45 (0.018) 0.05 (0.002)
Bearing	Main bearing-to-journal oil clearance No. 1, 2, 4 and 5 journals No. 3 journal Rod bearing-to-journal oil clearance		0.024 - 0.042 (0.0009 - 0.0017) 0.030 - 0.048 (0.0012 - 0.0019) 0.032 - 0.050 (0.0013 - 0.0020)	0.050 (0.0020) 0.060 (0.0024) 0.060 (0.0024)

	MEASUREMENT		STANDARD (NEW)	SERVICE LIMIT
Engine oil	Capacity B18B1 engine (US qt, Imp qt) B18C1, B18C5 engines		4.6 (4.9, 4.0) for engine overhaul 3.8 (4.0, 3.3) for oil change, including filter 3.5 (3.7, 3.1) for oil change, without filter 4.8 (5.1, 4.2) for engine overhaul 4.0 (4.2, 3.5) for oil change, including filter 3.7 (3.9, 3.3) for oil change, without filter	
Oil pump	Inner-to-outer rotor clearance Pump housing-to-outer rotor cleara Pump housing-to-rotor axial clearar		0.04 - 0.16 (0.002 - 0.006) 0.10 - 0.19 (0.004 - 0.007) 0.02 - 0.07 (0.001 - 0.003)	0.20 (0.008) 0.20 (0.008) 0.15 (0.006)
Relief valve	Pressure setting at engine oil temp. kPa (kgf/cm², psi)	176°F (80°C) At idle At 3,000 rpm	70 (0.7, 10) min. 340 (3.5, 50) min.	

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Standards and Service Limits

.=	MEASUREMENT	STANDARD (NEW)
Radiator	Coolant capacity \(\ext{(US qt, Imp qt)} \) [Including engine, heater, cooling line and reservoir] Reservoir capacity: 0.6 \(\ext{(0.63 US qt, 0.53 Imp qt)} \) B18C1 engine B18C5 engine	M/T: 6.4 (6.8, 5.6) for overhaul 4.4 (4.6, 3.9) for coolant change* A/T: 6.7 (7.1, 5.9) for overhaul 4.7 (5.0, 4.1) for coolant change* M/T: 6.7 (7.1, 5.9) for overhaul 4.7 (5.0, 4.1) for coolant change* M/T: 6.5 (6.9, 5.7) for overhaul 4.5 (4.8, 4.0) for coolant change*
Radiator cap	Opening pressure kPa (kgf/cm², psi)	93 – 123 (0.95 – 1.25, 13.5 – 17.8)
Thermostat	Start to open °F (°C) Fully open °F (°C) Valve lift at fully open	169 - 176 (76 - 80) 194 (90) 8.0 (0.31) min.
Cooling fan	Thermoswitch "ON" temperature °F (°C) Thermoswitch "OFF" temperature °F (°C)	196 – 203 (91 – 95) Subtract 5 – 14 (3 – 8) from actual "ON" temperature

^{*:} Including the coolant in the reservoir and that remaining in the engine.

	MEASUREMENT		STANDARD (NEW)	SERVICE LIMIT
Pressure regulator	Pressure with regulator vacuum hose disconnected kPa (kgf/cm², psi) B18B1 engine 270 – 320 (2.8 – 3.3, 40 – 47) B18C1 engine 329 – 378 (3.35 – 3.85, 48 – 55) B18C5 engine 320 – 370 (3.3 – 3.8, 47 – 54)			
Fuel tank	Capacity & (US gal, Imp gal)		50 (13.2, 11.0)	
Engine	Idle speed with headlight and cooling fan off rpm		B18B1, B18C1 engines 750 ± 50 (M/T: neutral) 750 ± 50 (A/T: N or P position) B18C5 engine 800 ± 50 (M/T: neutral)	
	Fast idle rpm		B18B1, B18C1 engines 1,600 ± 200 (M/T: neutral) 1,600 ± 200 (A/T: N or P position) B18C5 engine 1,500 ± 200 (M/T: neutral)	
	Idle CO %		0.1 max.	

Clutch pedal	MEASUREMENT		STANDARD (NEW)	SERVICE LIMIT
	Pedal height Stroke Pedal play Disengagement height	to floor to floor	164 (6 7/16) 130 – 140 (5.12 – 5.51) 12 – 21 (1/2 – 13/16)* 83 (3.27) min.	
Flywheel	Clutch surface runout		0.05 (0.002) max.	0.15 (0.006)
Clutch disc	Rivet head depth Thickness		1.2 - 1.7 (0.05 - 0.07) 8.3 - 9.0 (0.33 - 0.35)	0.2 (0.01) 6.0 (0.24)
Pressure plate	Warpage Diaphragm spring finger alignment		0.03 (0.001) max. 0.6 (0.02) max.	0.15 (0.006) 0.8 (0.03)

^{*} Including the pedal play 1 - 10 mm (0.04 - 0.39 in).