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SHOP MANUAL

HONDA

CIVIC
COUPE CRX

CHASSIS MAINTENANCE AND REPAIR

88

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INTRODUCTION

How to Use This Manual

This manual contains service information for the CIVIC COUPE CRX. Separate volumes are published regarding vehicle construction, engine, and transmission; the applicable reference manuals are listed below.

This manual is divided into sections. This first page of each section is marked with a black tab that lines up with one of the thumb index tabs on the next page. 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.

Reference Manuals

Description	Code No.	Remarks	Date Published
CIVIC COUPE CRX Construction and Function	62SH210		Dec. 1987
D12B/D13B/D14A/D15B/D16A Engine Maintenance and Repair	62PM100	1.2 ℓ SOHC 1-Carbureted Engine 1.3 ℓ SOHC 1-Carbureted Engine 1.4 ℓ SOHC 2-Carbureted Engine 1.5 ℓ SOHC 1-Carbureted Engine 1.5 ℓ SOHC 2-Carbureted Engine 1.5 ℓ SOHC PGM-FI Engine 1.6 ℓ SOHC PGM-FI Engine	Nov. 1987
L3 Manual Transmission Maintenance and Repair	62PL300	1.6 ℓ DOHC PGM-FI Engine 5 Speed	Nov. 1987

Special Information

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

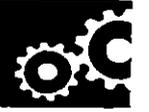
CAUTION: Indicates a possibility of personal injury or equipment damage if instructions are not followed.

NOTE: Gives helpful information.

CAUTION: Detailed descriptions of *standard* workshop procedures, safety principles and service operations are not included. Please note that this manual does contain warnings and cautions against some specific service methods which could cause **PERSONAL INJURY**, or could 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 Motor, might be done, or of the possible hazardous consequences of each conceivable way, nor could Honda Motor investigate all such ways. Anyone using service procedures or tools, whether or not recommended by Honda Motor, *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 text, figures and tables.



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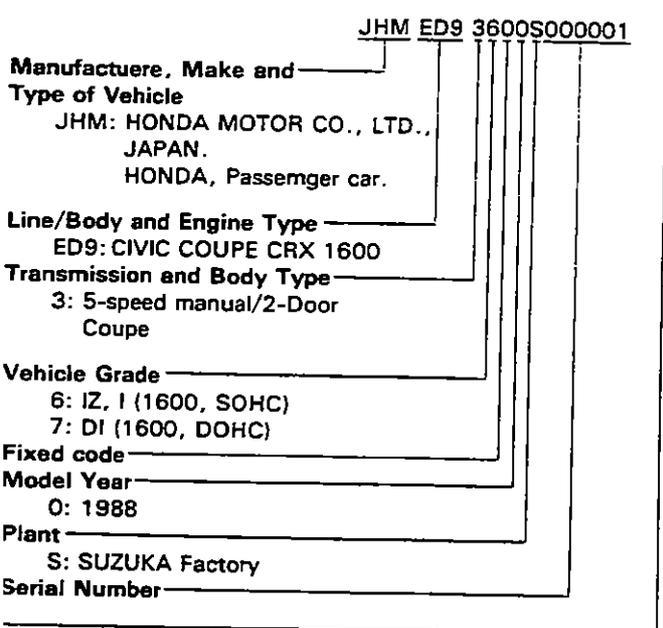


General Information

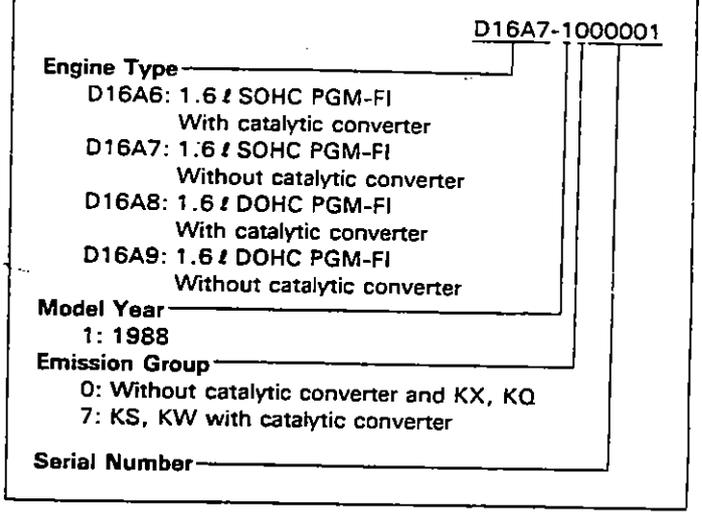
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Chassis and Engine Numbers

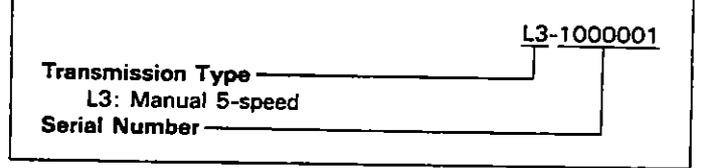
- Vehicle Identification Number



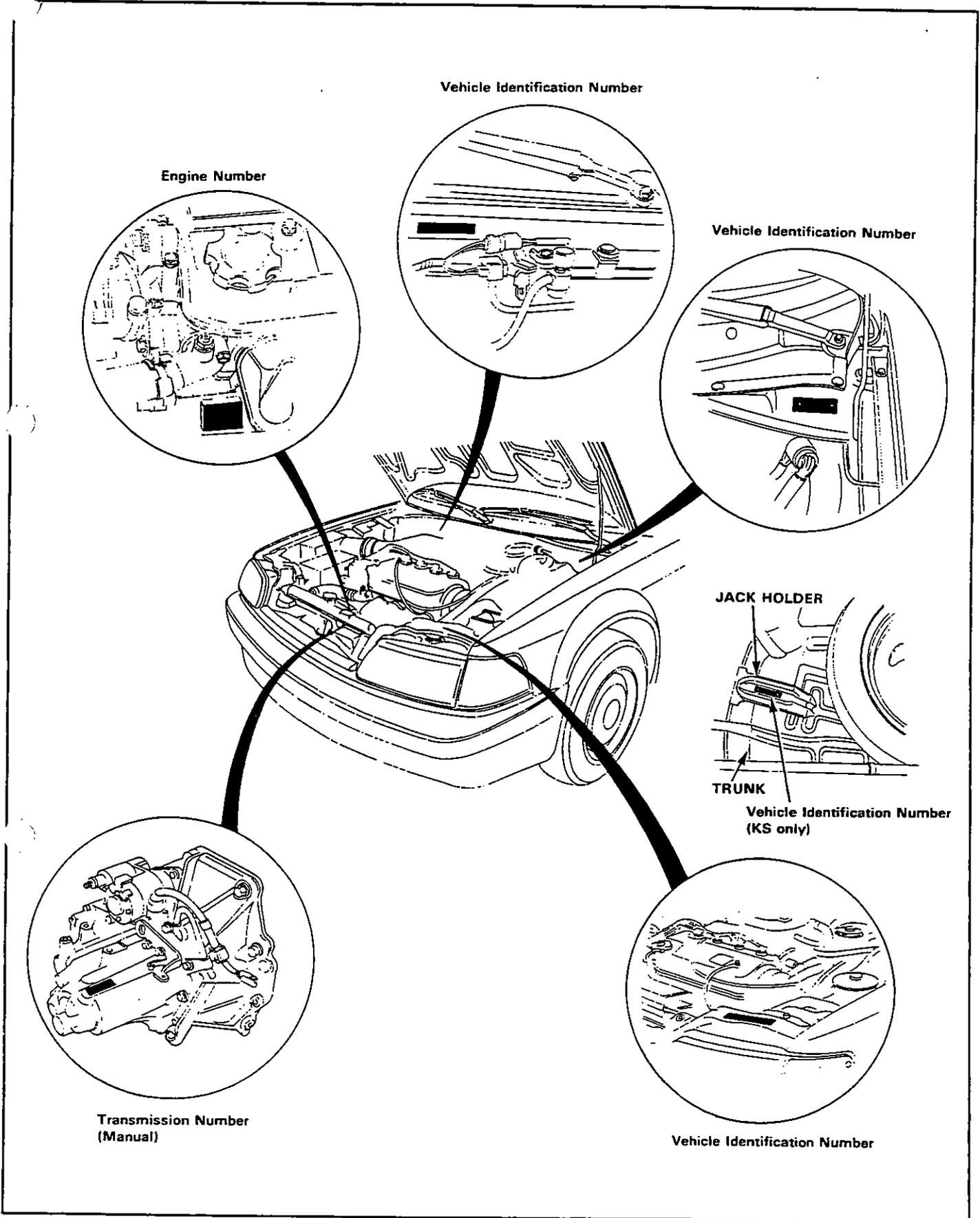
Engine Number



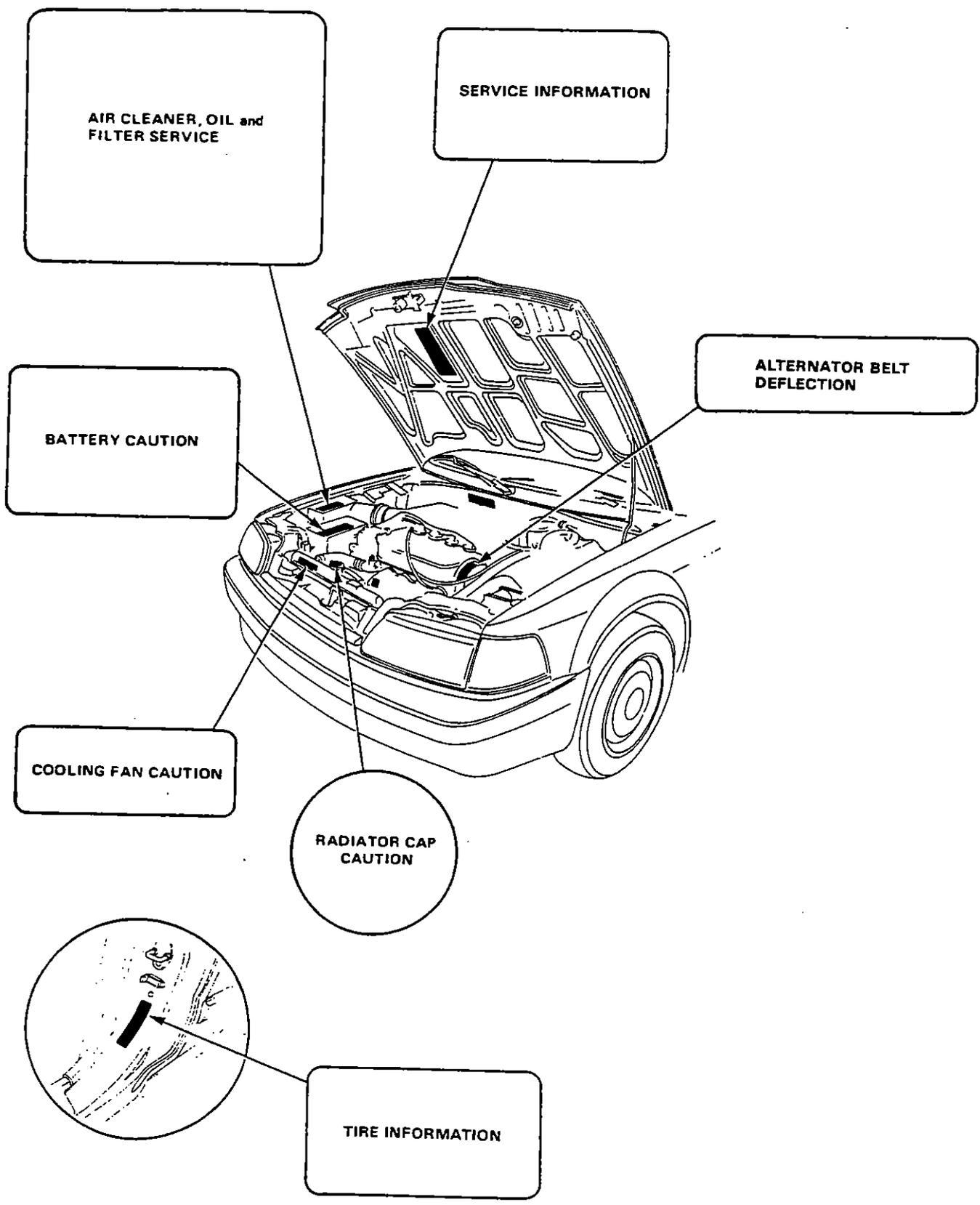
Transmission Number



Identification Number Locations



Label Locations





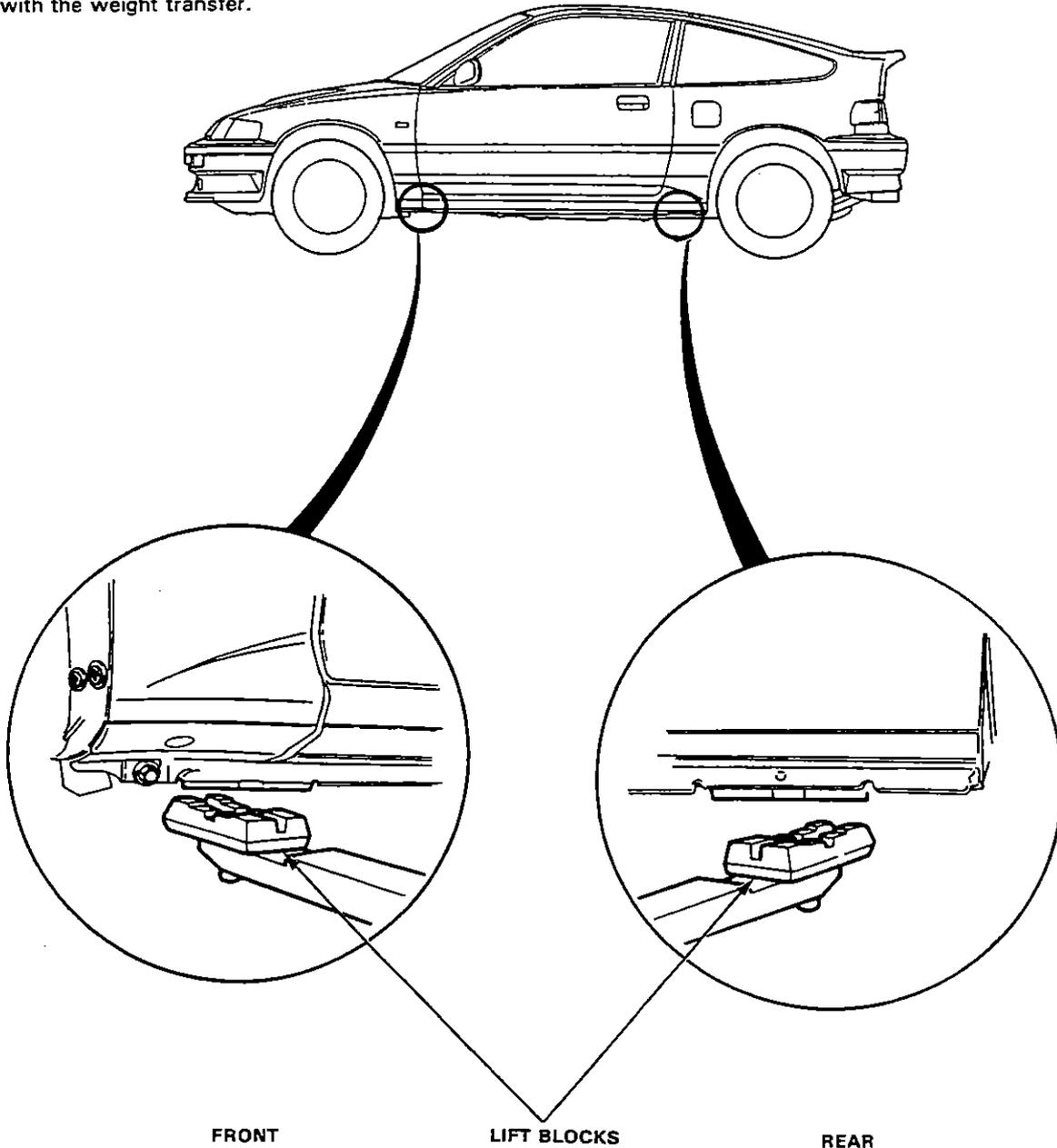
Lift and Support Points

Hoist

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

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

NOTE: Since each tire/wheel assembly weighs approximately 14 kg (30 lbs), placing the front wheels in the trunk will assist with the weight transfer.



(cont'd)

Lift and Support Points (cont'd)

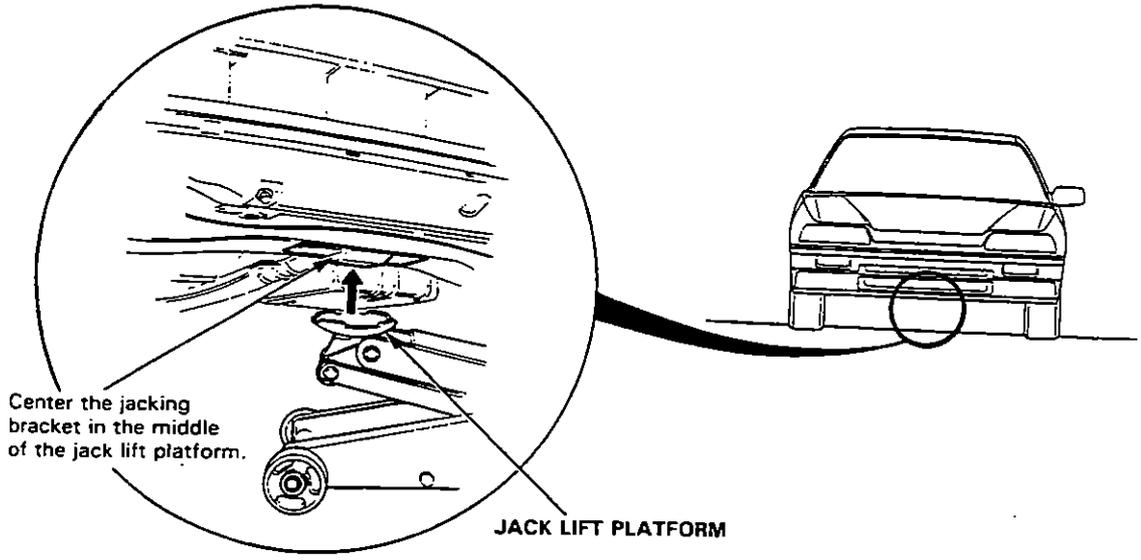
Floor Jack

1. Set the parking brake and block the wheels that are not being lifted.
2. When lifting the rear of the car, put the gearshift lever in reverse.
3. Raise the car high enough to insert the safety stands.
4. Adjust and place the safety stands as shown on page 1-7 so the car will be approximately level, then lower the car onto the stands.

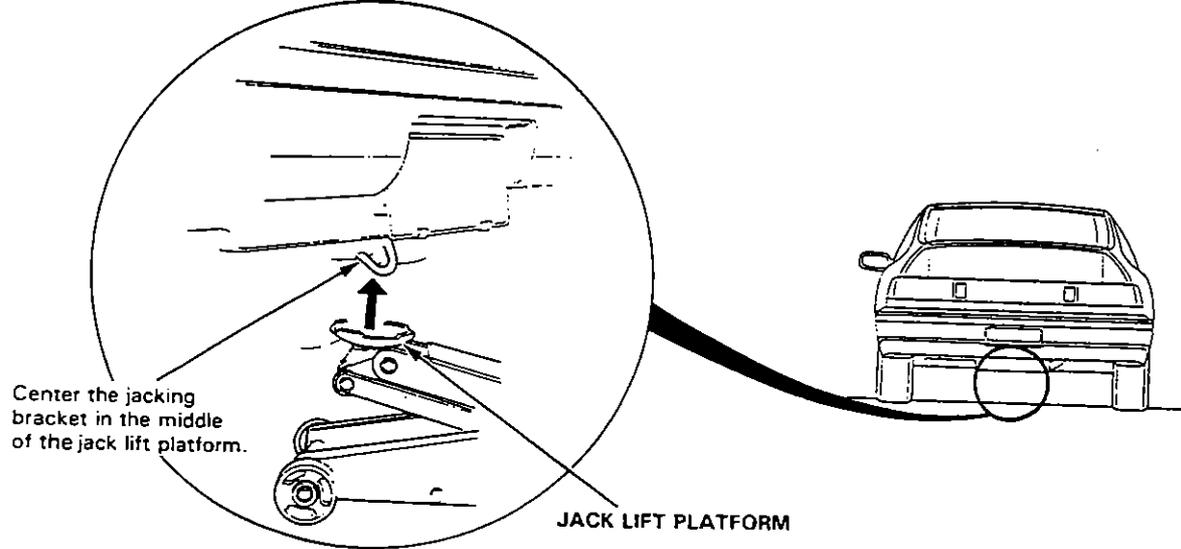
WARNING

- 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 car.

Front

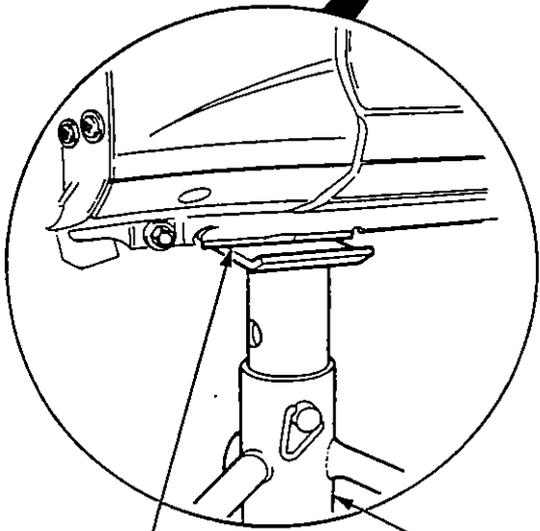
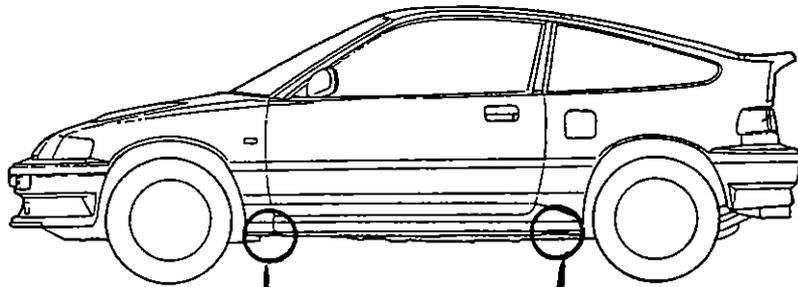


Rear

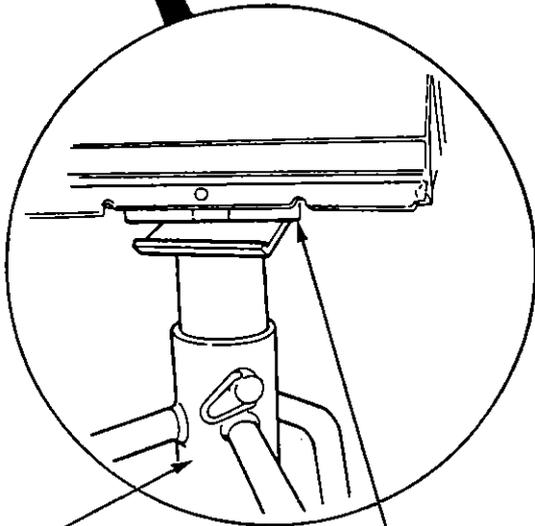




Safety Stands



FRONT SUPPORT POINT



REAR SUPPORT POINT

SAFETY STANDS

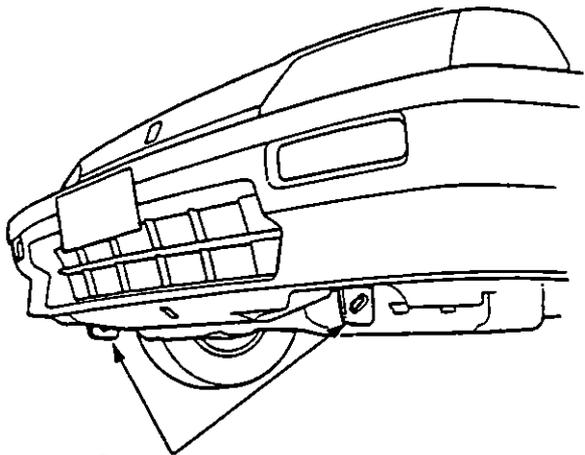
Towing

- Towing

If towing is necessary, we recommended the following:
Flat Bed Equipment: Entire car is winched on a flat bed vehicle. This is the best way of towing the car.

Wheel Lift Type: Front or rear of the car is lifted at the wheels and is suitable for the car.

CAUTION: If a sling type tow is used, the tow truck driver should position wood spacer blocks between your car's frame and the chains and lift straps to avoid damaging the bumper and the body. Do not use the bumpers to lift the car or to support the car's weight while towing. Check local regulations for towing.



TOWING HOOKS

emergency towing with all four wheels on the ground:
Under certain emergency conditions, the car may need to be towed with all four wheels on the ground. If the car is towed with all four wheels on the ground, check local regulations and observe the following precautions:

- Shift the transmission to neutral.
- Release the parking brake.
- Turn the ignition to the "1" position to unlock the steering.
- Do not exceed 55 kph (35 mph) or tow for distances of more than 80 km (50 miles).

If a frame mount tow bar is used with a four wheel tow:

- Do not attach it to the bumper.
- Follow the tow bar manufacturer's instructions.

WARNING Never use tow chains or rope to tow a car; your ability to safely control the car may be adversely affected.

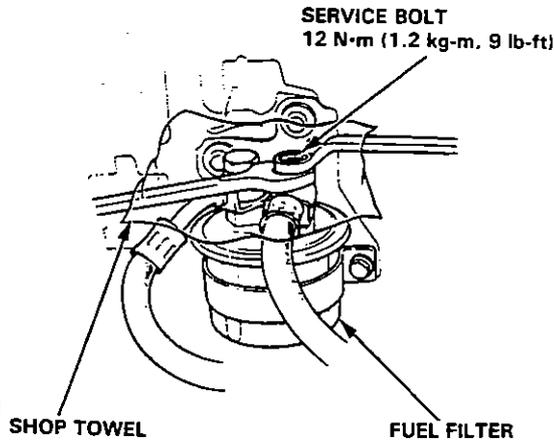
Preparation of Work



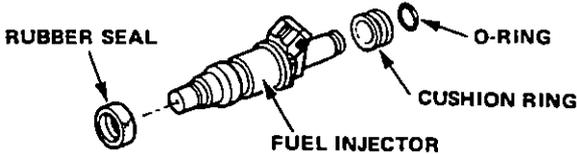
Special Caution Items For This Car

1. Fuel Line Servicing

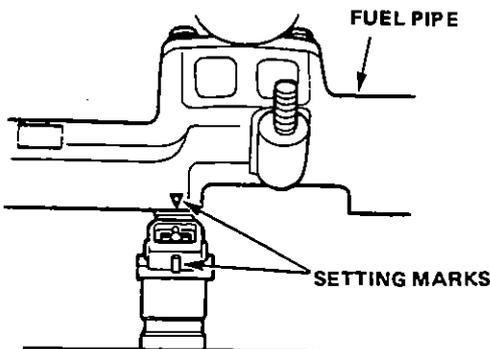
- Relieve fuel pressure by loosening the service bolt provided on the top of the fuel filter before disconnecting a fuel hose or a fuel pipe.



- Be sure to replace washers, O-rings, and rubber seals with new ones when servicing fuel line parts.
- Always apply oil to the surfaces of O-rings and seal rings before installation. Never use brake fluid, radiator fluid, vegetable oils or alcohol-based oils.



- When assembling the flare joint of the high-pressure fuel line, clean the joint and coat with new engine oil.
- When installing an injector, check the angle of the coupler. The center line of the coupler should align with the setting mark on the injector holder.



2. Inspection for fuel leakage

- After assembling fuel line parts, turn ON the ignition switch (do not operate the starter) so that the fuel pump is operated for approximately two seconds and the fuel is pressurized. Repeat this operation two or three times and check whether any fuel leakage has occurred in any of the various points in the fuel line.

3. Installation of an amateur radio for cars equipped with PGM-FI.

Care has been taken for the PGM-FI ECU (computer) and its wiring to prevent erroneous operation from external interference, but erroneous operation of the computer may be caused by extremely strong radio waves. Attention must be paid to the following items to prevent erroneous operation of the computer.

- The antenna and the body of the radio must be at least 200 mm (7.9 in.) away from the computer.

The computer locations:

- PGM-FI ECU: Passenger's side front lower panel.
- Do not lead the antenna feeder and the coaxial cable over a long distance parallel to the car's wiring. When crossing with the wiring is required, execute crossing at a right angle.
- Do not install a radio with a large output (max. 10 W).

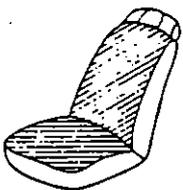
4. Apply liquid gasket to the transmission, oil pump cover, right side cover and water outlet. Use HONDA PART NO 08740-99986 as a liquid gasket.

- Check that the mating surfaces are clean and dry before applying liquid gasket. Degrease the mating surfaces if necessary.
- Apply liquid gasket evenly, being careful to cover all the mating surface.
- To prevent leakage of oil, apply liquid gasket to the inner threads of the bolt holes.
- Do not allow liquid gasket to stand for more than 20 minutes before assembly.
- Wait at least 30 minutes before filling with the appropriate liquid (engine oil, coolant etc).

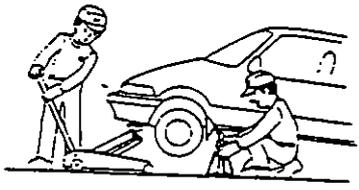
Preparation of Work

CAUTION: Observe all safety precautions and notes while working.

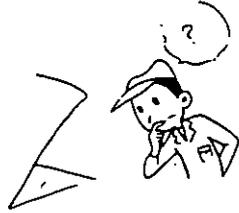
1. Protect all painted surfaces and seats against dirt and scratches with a clean cloth or vinyl cover.



2. Work safely and give your work your undivided attention. When either the front or rear wheels are to be raised, block the remaining wheels securely. Communicate signals as frequently as possible when work involves two or more workers. Do not run the engine unless the shop or working area is well ventilated.



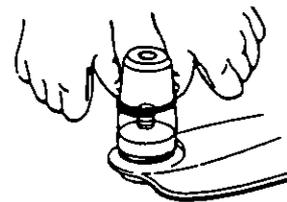
3. Prior to removing or disassembling parts, they must be inspected carefully to isolate the cause for which service is necessary. Observe all safety notes and precautions and follow the proper procedures as described in this manual.



Mark or place all removed parts in order in a parts rack so they can be reassembled in their original places.

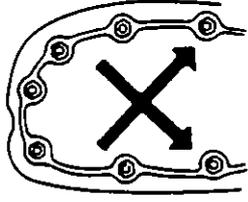


4. Use special tools when use of such is specified.

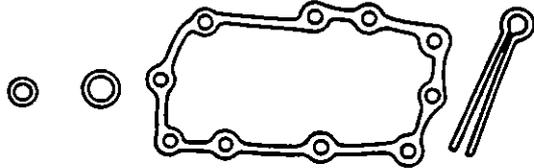


5. Parts must be assembled with the proper torque according to the maintenance standards established.

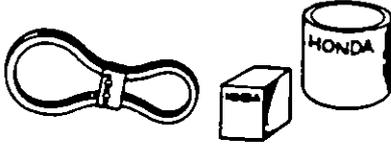
6. When tightening a series bolts or nuts, begin with the center or larger diameter bolts and tighten them in crisscross pattern in two or more steps.



7. Use new packings, gaskets, O-rings and cotter pins whenever reassembling.

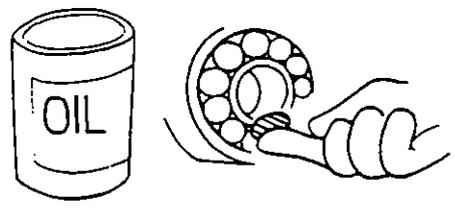


8. Use genuine HONDA parts and lubricants or those equivalent. When parts are to be reused, they must be inspected carefully to make sure they are not damaged or deteriorated and are in good usable condition.





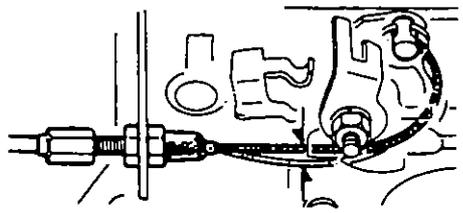
- 9. Coat or fill parts with specified grease as specified (Page 4-2). Clean all removed parts with solvent upon disassembly.



- 10. Brake fluid and hydraulic components
 - When replenishing the system, use extreme care to prevent dust and dirt from entering the system.
 - Do not mix different brands of fluid as they may not be compatible.
 - Do not reuse drained brake fluid.
 - Brake fluid can cause damage to painted surfaces. Wipe up spilled fluid at once.
 - After disconnecting brake hoses or pipes, be sure to plug the openings to prevent loss of brake fluid.
 - Clean all disassembled parts only in clean BRAKE FLUID. Blow open all holes and passages with compressed air.

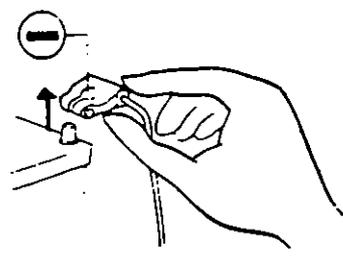


- Keep disassembled parts from air-borne dust and abrasives.
- Check that parts are clean before assembly.
- 11. Avoid oil or grease getting on rubber parts and tubes, unless, specified.
- 12. Upon assembling, check every part for proper installation and operation.

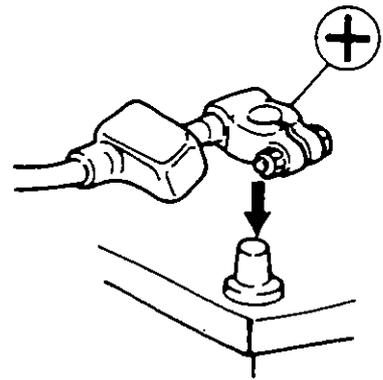


Electrical

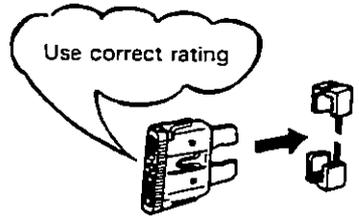
- Before making any repairs on electric wires or parts, disconnect the battery cables from the battery starting with the negative (-) terminal.



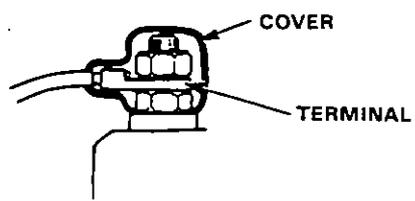
- After making repairs, check each wire or part for proper routing and installation. Also check to see that they are connected properly.
- Always connect the battery positive (+) cable first, then connect the negative (-) cable.



- Coat the terminals with clean grease after connecting the battery cables.
- Don't forget to install the terminal cover over the positive battery terminal after connecting.
- Before installing a new fuse, isolate the cause and take corrective measures, particularly when frequent fuse failure occurs.



- Be sure to install the terminal cover over the connections after a wire or wire harness has been connected.



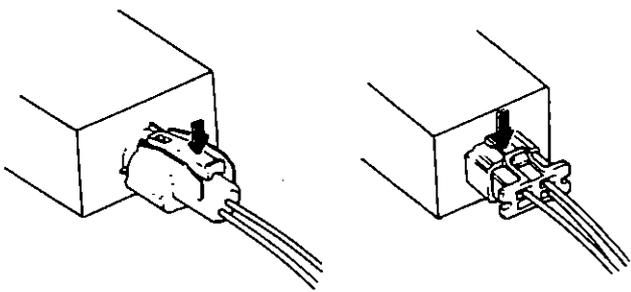
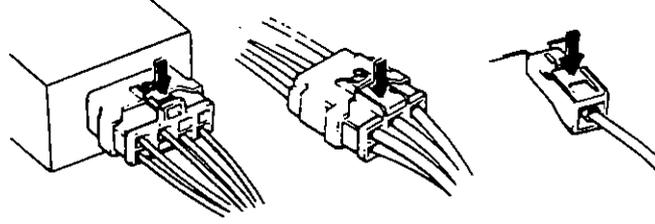
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Preparation of Work

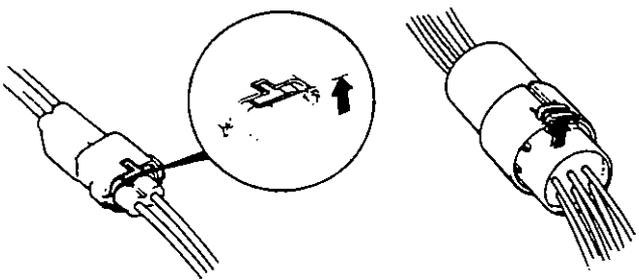
Electrical (cont'd)

- When removing locking couplers, be sure to disengage the lock before disconnecting.
- Couplers may be of two types, those in which the lock is pressed to remove, and those in which the lock is pulled up to remove. Be sure to ascertain the type of locking device before beginning work. The following is a depiction of the means of disconnecting various typical couplers.

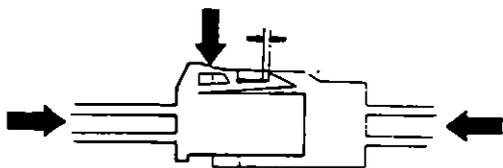
Press to disengage:



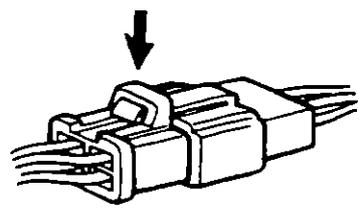
Pull up to disengage:



- When disconnecting locks, first press in the coupler tightly (to provide clearance to the locking device), then operate the tab fully and remove the coupler in the designated manner.



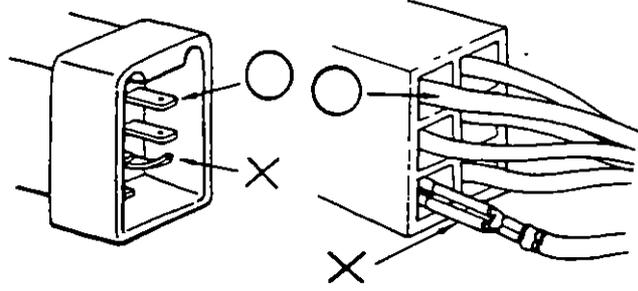
- All plastic plugs have locking tabs that must be released before disconnecting, and must be aligned when re-connecting.



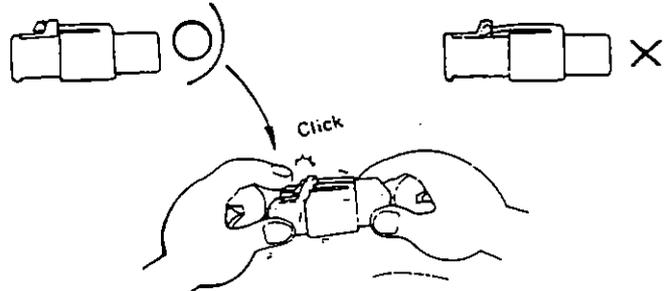
- When disconnecting a coupler, pull it off from the mating coupler by holding on both couplers.
- Never try to disconnect couplers by pulling on their wires.



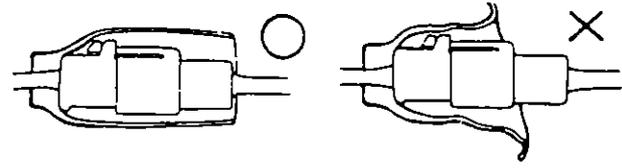
- Before connecting couplers, check to see that the terminals are in place and are not bent or distorted.



- Insert couplers fully until they will no longer go.
- Some couplers have locking tabs that must be aligned and engaged securely.
- Don't use wire harnesses with a loose wire or coupler.

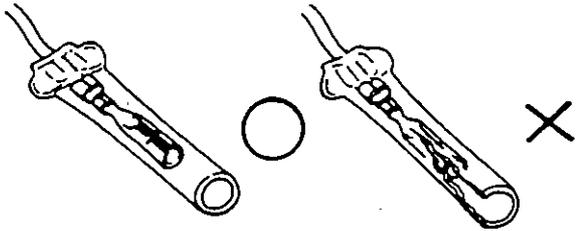


- Place the plastic cover over the mating coupler after reconnecting. Also check that the cover is not distorted.

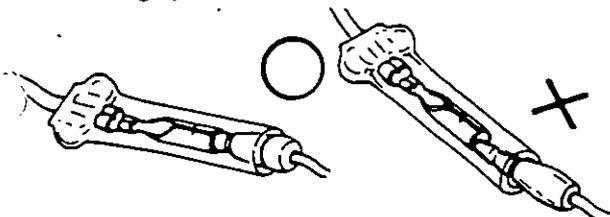




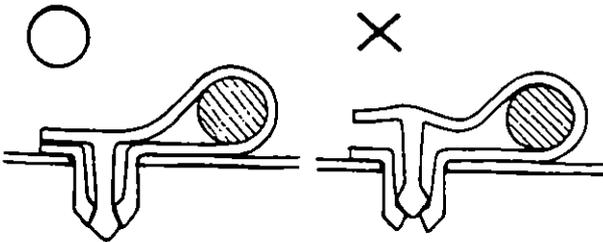
- Before clamping, check each connector cover for damage. Also make sure that the female connector is tight and not loosened from the previous use.



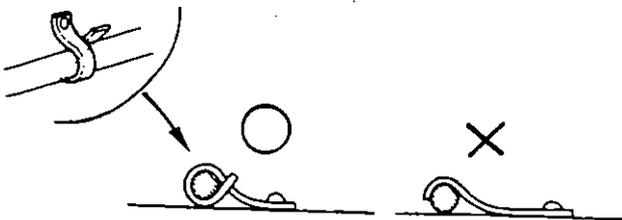
- Insert male connectors into the female connectors fully until they will no longer go.
- Be sure that plastic cover is placed over the connection.
- Position the wires so that the open end of the cover is not facing upward.



- Secure wires and wire harnesses to the frame with their respective wire bands at the designated locations. Position the wiring in the bands so that only the insulated surfaces contact the wires or wire harnesses.



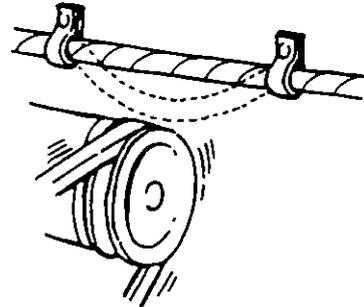
- A loose wire harness or cable can be a hazard to safety. After clamping, check each wire for security in its clamp.



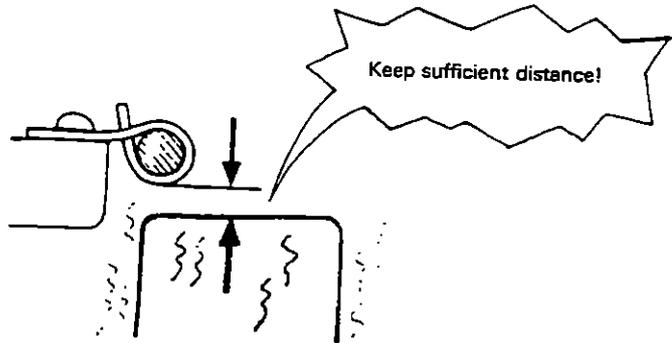
- Do not squeeze wires against the weld when a weld-on clamp is used.



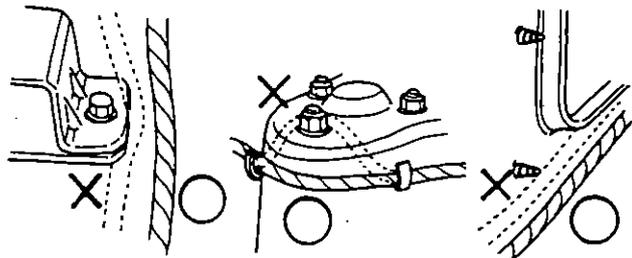
- After clamping, check each harness to be certain that it is not interfering with any moving or sliding parts of the vehicle.
- Keep wire harnesses away from the exhaust pipes and other hot parts.



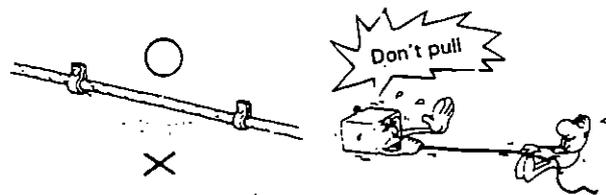
- Always keep a safe distance between wire harnesses and any heated parts.



- Do not bring wire harnesses in direct contact with sharp edges or corners.
- Also avoid contact with the projected ends of bolts, screws and other fasteners.



- Route harnesses so they are not pulled taut or slackened excessively.

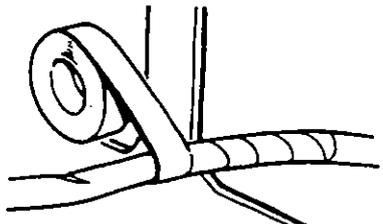


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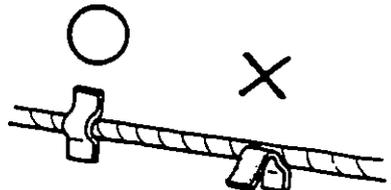
Preparation of Work

- Electrical (cont'd)

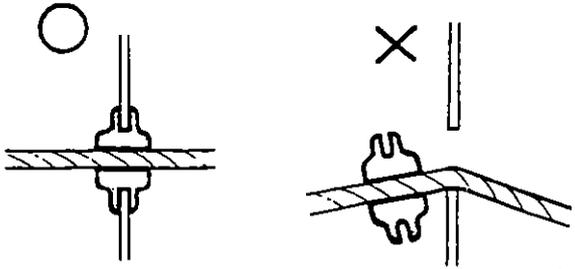
- Protect wires and harnesses with tape or a tube if they are in contact with a sharp edge or corner.



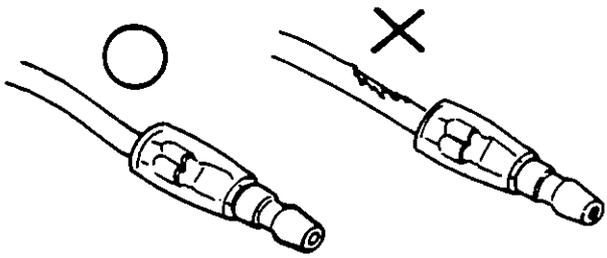
- Clean the attaching surface thoroughly if an adhesive is used. First, wipe with solvent or alcohol in necessary.



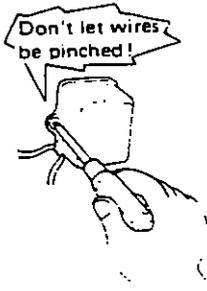
- Seat grommets in their grooves properly.



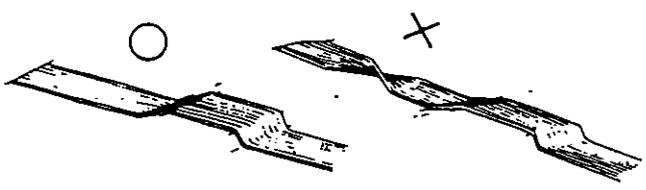
- Do not damage the insulation when connecting a wire.
- Do not use wires or harnesses with a broken insulation. Repair by wrapping with a protective tape or replace with new ones if necessary.



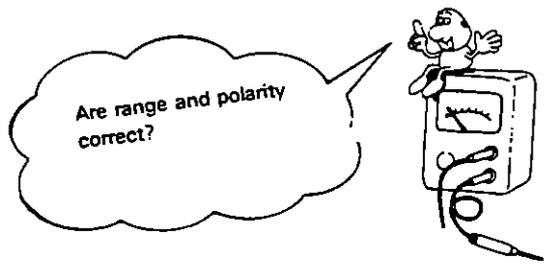
- After installing parts, make sure that wire harnesses are not pinched.



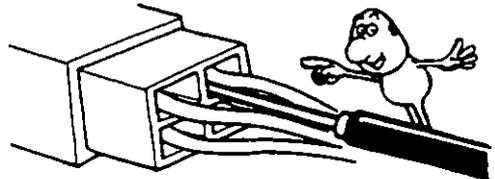
- After routing, check that the wire harnesses are not twisted or kinked.



- Wire harnesses should be routed so that they are not pulled taut, slacked excessively, pinched, or interfering with adjacent or surrounding parts in all steering positions.



- When using the Service Tester, follow the manufacturer's instructions and those described in the Shop Manual.



- Do not drop parts.



- Rust is the enemy of all finished surfaces. Before connecting connectors and couplers, check the terminals and remove, if any, rust using a fine sand paper or emery cloth.



Symbol Marks

The following symbols stand for:



:Apply engine oil.



:Apply brake fluid.



:Apply grease.



: Apply Power Steering Fluid.



:Apply or check vacuum.

①, ②, ③,

①, ②, ③,

: Sequence for removal.

Abbreviation



A/C
BAT
CATA
EACV
ECU

Air Conditioner
Battery
Catalytic Converter
Electronic Air Control Valve
PGM-FI Electronic Control
Unit

EX
GND
IG
IN
INT
L.
LHD
M/T
PCV
PGM-FI
P/S
R.
RHD
SW
SOL. V
TDC

Exhaust
Ground
Ignition
Intake
Intermittent
Left Side
Left Hand Drive
Manual Transmission
Positive Crankcase Ventilation
Programmed Fuel-Injection
Power Steering
Right Side
Right Hand Drive
Switch
Solenoid Valve
Top Dead Center

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3



Special Tools

Existing Tools

(Common with Other Models)2-2

Special Tools

Existing Tools (Common with Other Models)

— 5. Engine —

No.	Tool Number	Description	Q'ty	Remarks	
①	07966-6340011	Engine Block Hanger	1	Used to set the piston at TDC (DOHC engine). 07957-3290001 may also be used.	
②	07944-6110100	Pin Driver 5 mm	2		
③	07757-0010000	Valve Spring Compressor	1		
④	07HAD-PJ70200	Valve Guide Seal Installer	1		
⑤	07742-0010100	Valve Guide Driver 5.5 mm	1		
⑥	07743-0020000	Adjustable Valve Guide Driver	1		
⑦	07HAH-PJ70100	Valve Guide Reamer, 5.5 mm	1		
⑧	07GMD-PH70100	Valve Guide Seal Installer	1		
⑨	07742-0010200	Valve Guide Driver, 6.6 mm	1		
⑩	07984-6570101	Valve Guide Reamer, 6.6 mm	1		
⑪	07947-SB00100	Oil Seal Driver	1		For camshaft seal
⑫	07973-6570002	Piston Pin Dis/Assembly Tool Set	1		
⑬	07973-6570500	Piston Base	1		
⑭	07973-SB00100	Piston Base Head	1		
⑮	07973-PE00200	Pilot Collar	1		
⑯	07973-PE00400	Piston Pin Base Insert	1	Crankshaft (Clutch side) Crankshaft (Pulley side) Crankshaft (Clutch side)	
⑰	07973-PE00302	Adjustable Piston Pin Driver	1		
⑱	07948-0080000	Driver Attachment	1		
⑲	07HAD-PJ70100	Driver	1		
⑳	07749-0010000	Driver	1		
㉑	07912-6110001	Oil Filter Socket Wrench	1		
㉒	07406-0030000	Oil Pressure Gauge Adapter	1		For pressure measurement

— 6. Fuel and Emissions —

No.	Tool Number	Description	Q'ty	Remarks
①	07JAZ-SH20100	R.P.M. Connecting Adaptor	1	Component Tools
②	07999-PD6000A	PGM-FI Test Harness	1	
③	07406-0040001	Fuel Pressure Gauge	1	
③-1	07406-0040100	Pressure Gauge	1	
③-2	07406-0040201	Hose Assy	1	
④	07GMJ-ML80100	Test Harness	1	
⑤	07411-0020000	Digital Circuit Meter	1	

— 7. Clutch —

No.	Tool Number	Description	Q'ty	Remarks
①	07924-PD20003	Ring Gear Holder	1	07924-PD20002 may also be used.
②	07JAF-PM70100	Clutch Disc Alignment Tool	1	
③	07746-0010100	Attachment, 32 x 35 mm	1	
④	07749-0010000	Driver	1	



8. Manual Transmission

No.	Tool Number	Description	Q'ty	Remarks	
①	07744-0010400	Pin Driver, 5 mm	1	07944-6110100 may also be used.	
②	07936-6340000	Bearing Remover Set	1		
③	07746-0010300	Attachment, 42 x 47 mm	1		07974-6110100 may also be used.
④	07749-0010000	Driver	1		
⑤	07746-0010400	Attachment, 52 x 55 mm	1		07949-6110000 may also be used.
⑥	07979-PJ40000	Magnet Stand Base	1		
⑦	07GAJ-PG20101	Mainshaft Clearance Inspection Tool	1		07947-6340200 may also be used.
⑧	07746-0030100	Driver	1		
⑨	07944-SA00000	Pin Driver 4.0 mm	1		
⑩	07947-6110500	Oil Seal Driver	1		
⑪	07948-SC20200	Oil Seal Driver	1		
⑫	07947-6340500	Oil Seal Driver Attachment E	1		

10. Driveshafts

No.	Tool Number	Description	Q'ty	Remarks
①	07749-0010000	Driver	1	
②	07746-0040800	35 mm Pilot	1	
③	07746-0010300	Attachment, 42 x 47 mm	1	
④	07947-SD90100	Oil Seal Driver Attachment	1	
⑤	07JAD-SH30100	Oil Seal Driver Attachment	1	
⑥	07746-0030100	Inner Handle (C)	1	

(cont'd)

Special Tools

Existing Tools (Common with Other Models)

11. Manual Steering

No.	Tool Number	Description	Q'ty	Remarks
①	07916—SA50001	Steering Gearbox Lock Nut Wrench	1	07916—6920100 may also be used.
②	07941—6920003	Ball Joint Remover	1	
③	07974—SA50800	Ball Joint Boot Clip Guide B	1	

11. Power Steering

No.	Tool Number	Description	Q'ty	Remarks	
①	07406—0010101	Bypass Tube Joint	1	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">}</div> Component Tools </div>	
②	07916—SA50001	Steering Gearbox Lock Nut Wrench	1		
③	07406—0010200	P/S Pressure Gauge Set	1		
③-1	07406—0010300	Pressure Control Valve	1		
③-2	07406—0010400	Pressure Gauge	1		
④	07GAK—SE00100	P/S Pressure Gauge Adaptor Set	1		
④-1*	07GAK—SE00110	P/S Joint Adaptor (Pump)	1		07406—0011100 may also be used. 07406—0011200 may also be used.
④-2*	07GAK—SE00120	P/S Joint Adaptor (Hose)	1		
⑤	07941—6920003	Ball Joint Remover	1		<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">}</div> Component Tools </div>
⑥	07749—0010000	Driver	1		
⑦	07746—0010300	Attachment, 42 x 47 mm	1		
⑧	07947—6340300	Driver Attachment	1		
⑨	07GAG—SD40000	P/S Tool Kit	1		
⑨-1	07GAG—SD40100	Piston Seal Ring Guide	1		
⑨-2	07GAG—SD40200	Piston Seal Ring Sizing Tool	1		
⑨-3	07GAG—SD40300	Cylinder End Seal Slider	1		
⑨-4	07GAG—SD40400	Cylinder End Seal Guide	1		
⑨-5	07GAG—SD40600	Tool Box	1		
⑩	07974—SA50600	Pinion Seal Guide	1		
⑪	07725—0030000	Universal Holder	1	07725—0010101 may also be used.	

* ①-1* and ④-2* : Component Tools

12. Suspension

No.	Tool Number	Description	Q'ty	Remarks
①	07H GK—0010100	Wheel Alignment Gauge Attachment	1	
②	07941—6920003	Ball Joint Remover	1	
③	07965—6340301	Hub Dis/Assembly Base	1	
④	07JAF—SH20110	Hub Dis/Assembly Pilot, 38 mm	1	
⑤	07JAF—SH20120	Hub Dis/Assembly Shaft, 22.4 x 25.4 mm	1	
⑥	07749—0010000	Driver	1	
⑦	07746—0010400	Attachment, 52 x 55 mm	1	
⑧	07GAF—SE00401	Hub Dis/Assembly Base	1	
⑨	07965—6920201	Hub Dis/Assembly Base	1	
⑩	07746—0010600	Attachment, 72 x 75 mm	1	
⑪	07GAF—SE00200	Hub Assembly Guide Attachment	1	
⑫	07965—SB00100	Ball Joint Remover/Installer	1	
⑬	07JAF—SH20200	Ball Joint Remover Base	1	
⑭	07965—SB00200	Ball Joint Installer Base	1	
⑮	07974—SA50700	Ball Joint Boot Clip Guide A	1	
⑯	07974—SA50800	Ball Joint Boot Clip Guide B	1	
⑰	07GAE—SE00100	Spring Compressor	1	



13. Brakes

No.	Tool Number	Description	Q'ty	Remarks
①	07921—0010001	Flare Nut Wrench	1	
②	07510—6340300	Vacuum Joint Tube A	1	
③	07404—5790300	Vacuum Gauge	1	
④	07410—5790500	Tube Joint Adaptor	1	
⑤	07406—5790200	Oil Pressure Gauge	2	
⑥	07410—5790100	Pressure Gauge Attachment C	2	
⑦	07510—6340100	Pressure Gauge Joint Pipe	2	
⑧	07749—0010000	Driver	1	07949—6110000 may also be used.
⑨	07747—6890300	Driver Attachment C	1	
⑩	07GAG—SE00100	Pushrod Adjustment Gauge	1	
⑪	07HAE—SG00100	Brake Spring Compressor	1	
⑫	07914—SA50001	Snap Ring Pliers	1	

15. Heater and Air Conditioner

No.	Tool Number	Description	Q'ty	Remarks
①	07746—0030100	Driver C	1	Pulley installation
②	07HAF—SF10300	Seal Seat Remover	1	Cover plate removal
③	07HAF—SF10400	Seal Remover/Installer	1	Shaft seal removal/installation

16. Electrical

No.	Tool Number	Description	Q'ty	Remarks
①	07920—SB20000	Fuel Sender Wrench	1	

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Specifications

Standards and Service Limits	3-2
Design Specifications	3-8
Body Specifications	3-11



Standards and Service Limits

5. Engine/Cylinder Head, Valve Train (SOHC Engine)

MEASUREMENT		STANDARD (NEW)		SERVICE LIMIT	
Compression	250 min ⁻¹ (rpm) and wide-open throttle	Nominal Minimum Maximum variation		1,275 kPa (13.0 kg/cm ² , 185 psi) 932 kPa (9.5 kg/cm ² , 135 psi) 196 kPa (2 kg/cm ² , 28 psi)	
Cylinder head	Warpage Height	— 94.95—95.05		0.05 (0.002)	
Camshaft	End play		0.05—0.15 (0.002—0.006)	0.5 (0.02)	
	Oil clearance		0.050—0.089 (0.002—0.004)	0.15 (0.006)	
	Runout		0—0.03 (0—0.001) max.	0.03 (0.001)	
	Cam lobe height	IN Ex. KY KY EX Ex. KY KY	36.603 (1.4411) 36.957 (1.4515) 36.747 (1.4467) 36.996 (1.4565)	— — — —	
Valve	Valve clearance	IN EX	0.17—0.22 (0.007—0.009) 0.22—0.27 (0.009—0.011)	— —	
	Valve stem O.D.	IN EX	5.48—5.49 (0.2157—0.2161) 5.45—5.46 (0.2147—0.2150)	5.45 (0.2147) 5.42 (0.2134)	
	Stem-to-guide clearance	IN EX	0.02—0.05 (0.001—0.002) 0.05—0.08 (0.002—0.003)	0.08 (0.003) 0.12 (0.005)	
	Stem installed height	IN EX	46.985—47.455 (1.8498—1.8683) 48.965—49.435 (1.9278—1.9263)	47.705 (1.8781) 49.685 (1.9561)	
	Valve seat	Width	IN EX	0.85—1.15 (0.033—0.045) 1.25—1.55 (0.049—0.061)	1.6 (0.06) 2.0 (0.08)
			Valve spring	Free length	IN EX
Valve spring	Squareness	IN/EX	—	1.70/1.72 (0.0669/0.0677)	
		Valve guide	I.D.	IN and EX	5.51—5.53 (0.2169—0.2177)
Rocker arm	Arm-to-shaft clearance	IN EX	0.017—0.05 (0.0007—0.0020) 0.018—0.054 (0.0007—0.0021)	0.08 (0.003) 0.08 (0.003)	

5. Engine/Cylinder Head, Valve Train (DOHC Engine)

MEASUREMENT		STANDARD (NEW)		SERVICE LIMIT	
Compression	250 min ⁻¹ (rpm) and wide-open throttle	Nominal Minimum Maximum variation		1,324 kPa (13.5 kg/cm ² , 192 psi) 932 kPa (9.5 kg/cm ² , 135 psi) 196 kPa (2 kg/cm ² , 28 psi)	
Cylinder head	Warpage Height	— 131.95—132.05		0.05 (0.002)	
Camshaft	End play		0.05—0.15 (0.002—0.006)	0.5 (0.02)	
	Oil clearance		0.050—0.089 (0.002—0.004)	0.15 (0.006)	
	Runout		0—0.03 (0—0.001) max.	0.03 (0.001)	
	Cam lobe height	IN EX	33.021 (1.3000) 32.382 (1.2749)	— —	
Valve	Valve clearance	IN EX	0.13—0.17 (0.005—0.007) 0.15—0.19 (0.006—0.008)	— —	
	Valve stem O.D.	IN EX	6.58—6.59 (0.2591—0.2595) 6.55—6.56 (0.2579—0.2583)	6.55 (0.2579) 6.52 (0.2567)	
	Stem-to-guide clearance	IN EX	0.02—0.05 (0.001—0.002) 0.05—0.08 (0.002—0.003)	0.08 (0.003) 0.12 (0.005)	
	Stem installed height	IN EX	45.545—46.015 (1.7931—1.8116) 44.735—45.205 (1.7612—1.7797)	46.265 (1.8215) 45.455 (1.7896)	
	Valve seat	Width	IN and EX	1.25—1.55 (0.049—0.061)	2.0 (0.08)
	Valve spring	Free length	IN EX	47.49 (1.8697) 46.89 (1.8461)	46.46 (1.8291) 45.93 (1.8083)
Valve guide			Squareness	IN/EX	—
Valve guide	I.D.	IN and EX	6.61—6.63 (0.2602—0.2610)	6.55 (0.2579)	