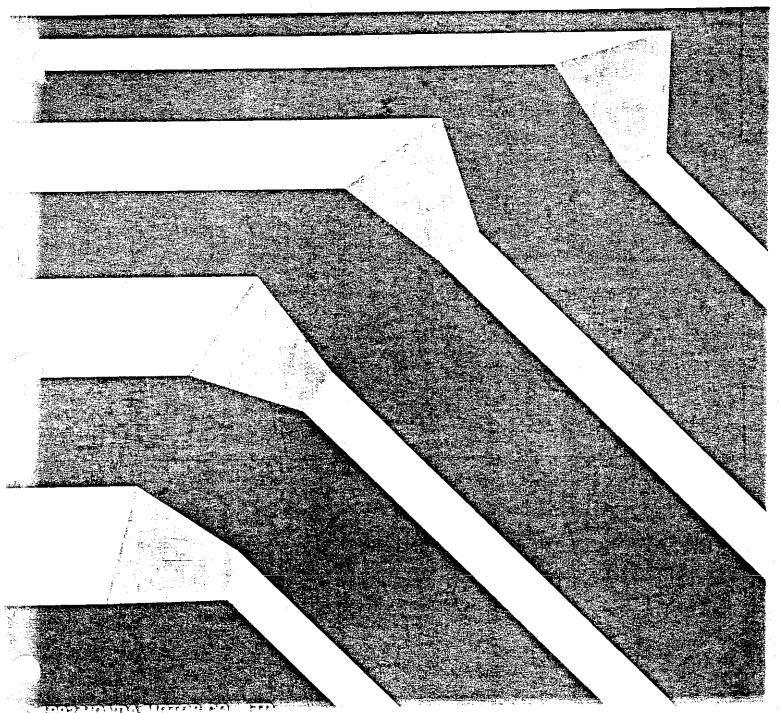
SHOP MANUAL

HONDA



MAINTENANCE, REPAIR and CONSTRUCTION 92



INTRODUCTION

How to Use This Manual -

The 92 CRX Shop Manual (Maintenance, Repair and Construction) 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. 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

Special Information -

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

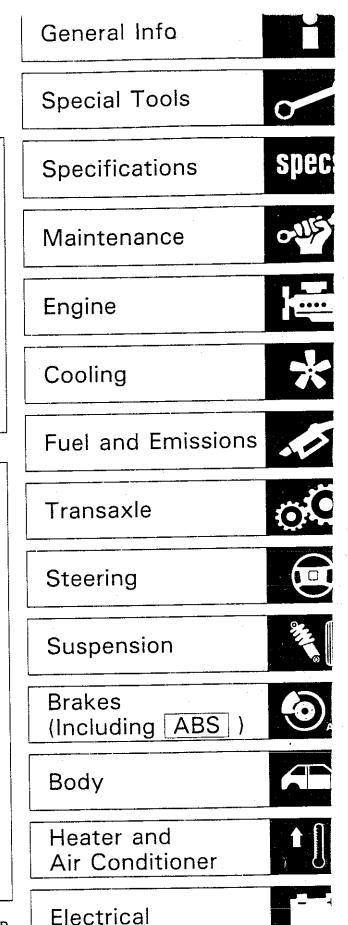
CAUTION: indicates a possibility of personal injury or equipment damage if instructions are not followed.

NOTE: Gives helpful information

CAUTION: Detailed descriptions of standard workshop procedures safety principles and service operations are not included. Please note that this manual 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 nor 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 text figures and tables.

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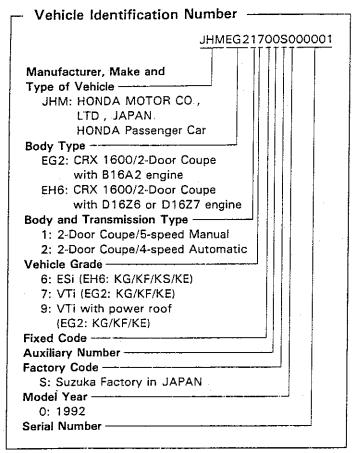


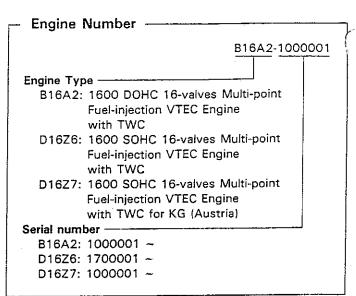
General Information

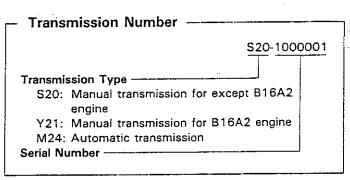
Chassis and Engine Number	1-2
Identification Number Locations	1-3
Label Locations	1-4
Lift and Support Points	1-5
Service Precautions	1-8

Chassis and Engine Numbers

European Model







Except European Model Vehicle Identification Number ----JHMEG21800S000001 Manufacturer Make and Type of Vehicle -JHM: HONDA MOTOR CO., LTD , JAPAN HONDA Passenger Car Body Type -EG2: CRX 1600/2-Door Coupe with B16A2 engine EH6: CRX 1600/2-Door Coupe with D16A9 engine Body and Transmission Type 1: 2-Door Coupe/5-speed Manual Vehicle Grade -

7: Si with power roof (EH6: KP/KT/KY)

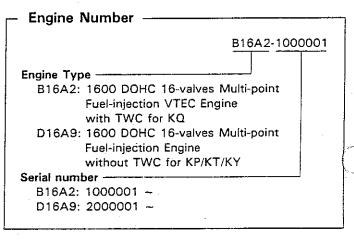
9: SiR with power roof (EG2: KQ)

S: Suzuka Factory in JAPAN

8: SiR (EG2: KQ)

Model Year

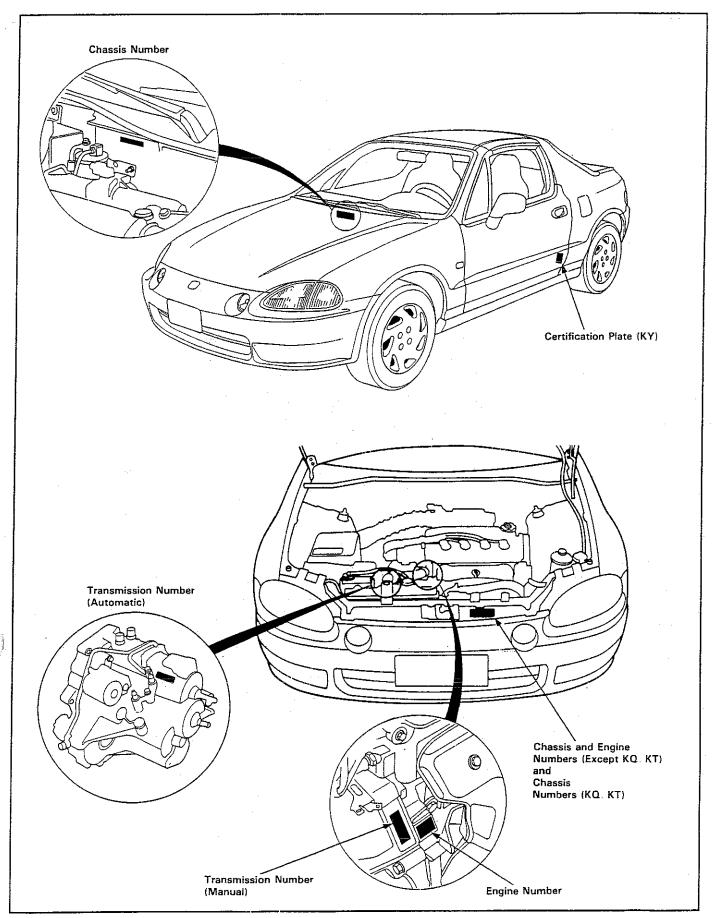
0: 1992
Serial Number



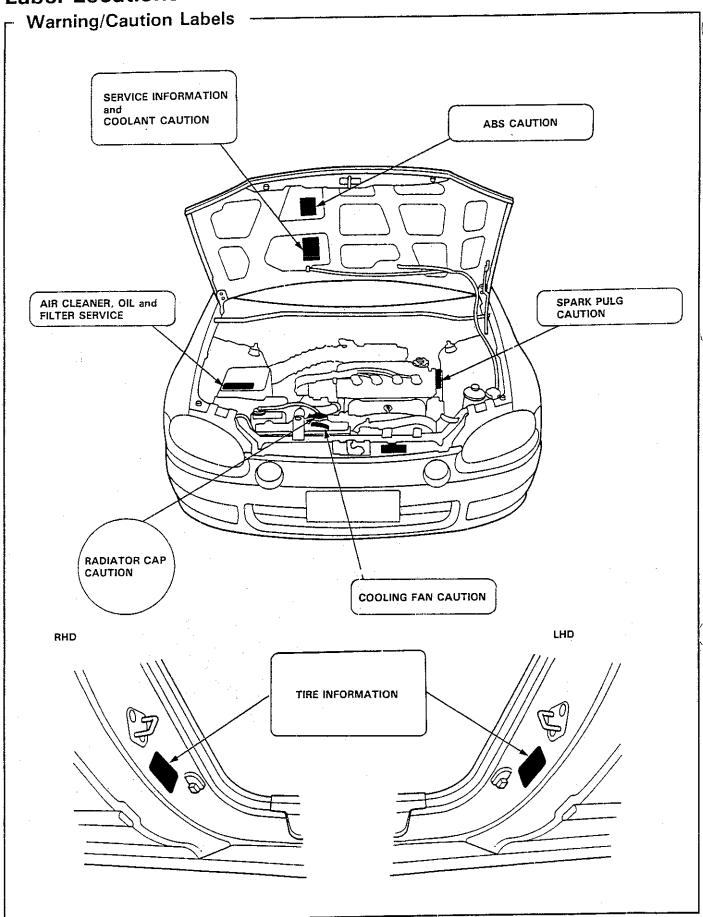
 Manual Transmission Number 	er ————
	\$20-1000001
Transmission Type	
S20: For D16A9 engine	
Y21: For B16A2 engine	
Serial Number	

Identification Number Locations





Label Locations



Lift and Support Points

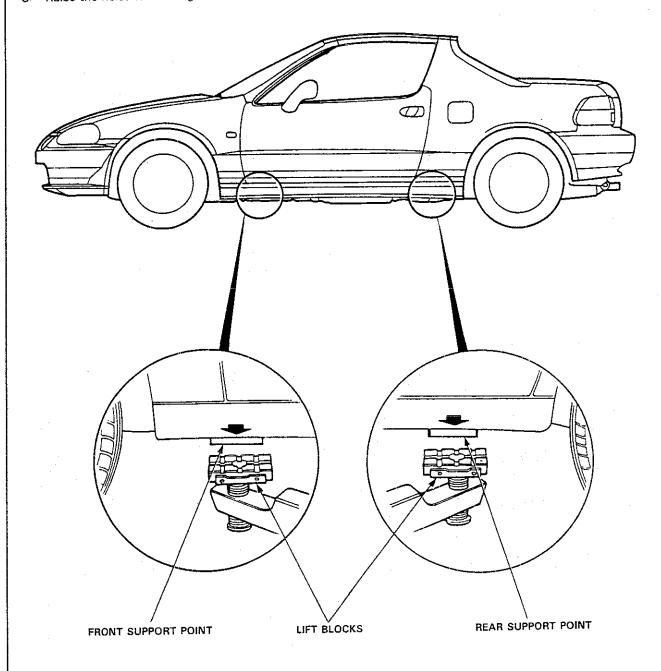


- Hoist

A WARNING When heavy rear components such as suspension, fuel tank, spare tire and hatch are to be removed, place additional weight in the luggage area 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 can assist with the weight distribution

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



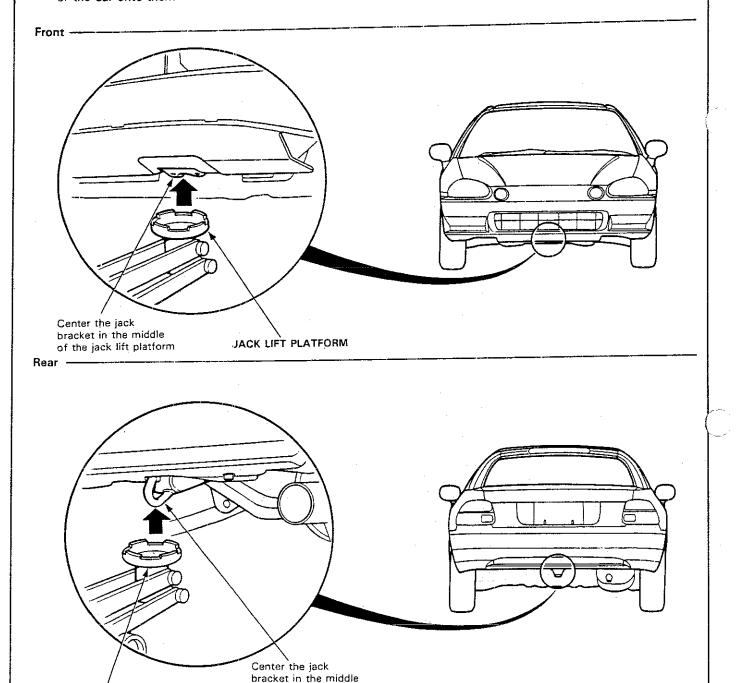
Lift and Support Points

Floor Jack ---

- Set the parking brake and block the wheels that are not being lifted.
- When lifting the rear of the car, put the gearshift lever in reverse (Automatic in PARK)
- 3 Raise the car high enough to insert the safety stands
- 4. Adjust and place the safety stands as shown on page 1-10 so the car will be approximately level, then lower the car onto them

A WARNING

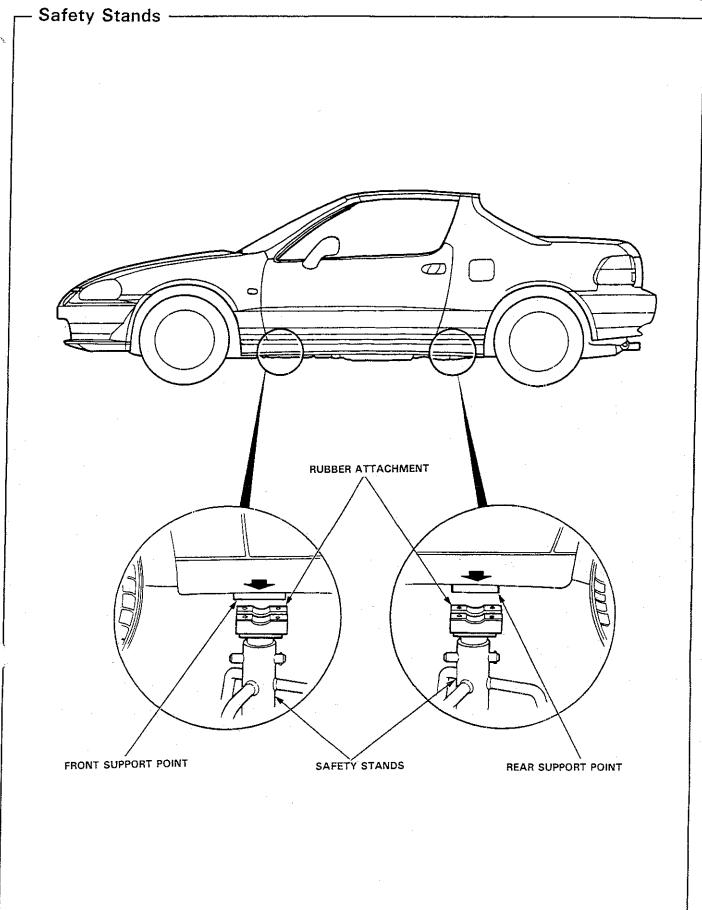
- Always use safety stands when working on or under any vehicle that is supported by only a jack.
- Never attempt to use a bumper jack for lifting or supporting the car



of the jack lift platform

JACK LIFT PLATFORM





Service Precautions

Towing -

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

Emergency Towing

There are three popular methods of towing a car:

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

Wheel Lift Equipment—The tow truck uses two pivoting arms which 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 car off the ground. The car's suspension and body can be seriously damaged if this method of towing is attempted.

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

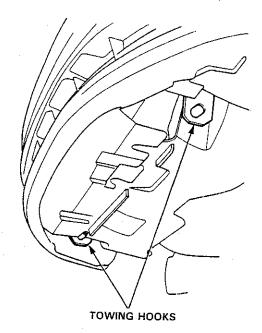
- Release the parking brake.
- Shift the transmission to Neutral (5-speed manual).
 If the car has an automatic transmission: Start the engine.
 Shift to D4, then to Neutral Shut the engine off.

NOTICE: Improper towing preparation will damage the transmission. Follow the above procedure exactly If you can not shift the transmission or start the engine (automatic transmission), the car must be transported on a flat-bed.

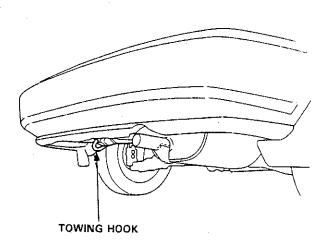
It is best to tow the car no farther than 80 km (50 miles), and keep the speed below 55 km/h (35 mph).

NOTICE: Trying to lift or tow the car by the bumpers will cause serious damge. The bumpers are not designed to support the car's weight

Front:



Rear:







CAUTION: Do not open/close the power roof while driving.

NOTE:

- Do not try to open/close the power roof when it is iced by snow or at extreme low temperature
- Do not open/close the wet power roof after rain or snow or cleaning with water
- Do not open/close the power roof when the car is raised by using the safety stands

Abbreviations

List of automotive abbreviations which may be used in shop manual.

A/C	Air Conditioning. Air conditioner	F	Front
ACG	Alternator	F₽	Fuel Pump
ABS	Anti-lock Brake System	FWD	Front Wheel Drive
A/T	Automatic Transmission	FR	Front Right
ATF	Automatic Transmission Fluid	FL	Front Left
A/F	Air Fuel Ratio	FSR	Fail Safe Relay
	Ampere (s)		
AMP	Antenna	GAL	Gallon
ANT		GND	Ground
ASSY	Assembly	J	
AUX	Auxiliary	H/B	Hatchback
APPROX	Approximately	HO2S	Heated Oxygen Sensor
ATDC	After Top Dead Center	HC	Hydrocarbons
AUTO	Automatic	110	77,07000725115
ATT	Attachment	IAC	Idle Air Control
ACL	Air Cleaner	ICM	Ignition Control Module
API	American Petroleum Institute	IAT	Intake Air Temperature
		IN IN	Intake
BARO	Barometric	****	Ignition
BAT	Battery	IG, IGN	Identification
BTDC	Before Top Dead Center	ID	Inside Diameter
BDC	Bottom Dead Center	181.1	
		INJ	Injection
CKP	Crankshaft Position	INT	Intermittent
CYP	Cylinder Position	ко	Vacal Capac
CAT	Catalytic Converter	KS	Knock Sensor
CO	Carbon Monoxide		
CYL	Cylinder	L 	Left
CPC	Clutch Pressure Control	LH	Left Handle
CARB	Carburetor	LHD	Left Handle Drive
COMP	Complete	L/C	Lock-up Clutch
CPU	Central Processing Unit	LSD	Limited Slip Diff
CHG	Charge	LF	Left Front
		LR	Left Rear
DI	Distributor Ignition	L-4	In-line four cylinder (engine)
DLC	Data Link Connector	LED	Light Emitting Diode
DTC	Diagnotic Trouble Code	ł	
DIFF	Differential		
DOHC	Dual Overhead Camshaft		
EVAP	Evaporative		
EGR	Exhaust Gas Recirculation		
5014	Engine Control Module	ſ	

ECM

ECT

EΧ

ELD

EFI

EPS

Engine Control Module

Electric Load Detector

Electronic Fuel Injection

Electronic Power Steering

Exhaust

Engine Coolant Temperature



M/S MAP MIL	Manual Steering Manifold Absolute Pressure Malfunction Indicator Light	SCS SEC	Service Check Signal Second Secondary
M/T	Manual Transmission		,
MCK	Motor Check	ļ T	Torque
M/S	Manual Steering	TCM	Transmission Control Module
MAX	Maximum	TWC	Three Way Catalytic Converter
MIN	Minimum	TDC	Top Dead Center
101111		ТВ	Throttle Body
NOx	Nitorogen Oxides of	TP	Throttle Position
		TC	Torque Converter
028	Oxygen Sensor	T/B	Timing Belt
OBD	ON Boad Diagnostic	T/N	Tool Number
OD	Outside Diameter	TCS	Traction Control System
PAIR	Pulsed Secondary Air Injection	VSS	Vehicle Speed Sensor
PSP	Power Steering Pressure	VTEC	Variable Valve Timing & Valve Lift
PCV	Positive Crankcase Ventilation		Electronic Control
	Proportioning Control Valve	vc vc	Viscous Coupling
P/S	Power Steering	VIN	Vehicle Identification Number
PGM-FI	Programed-fuel Injection		
PRI	Primary	W	With
P/N	Parts Number	W/O	Without
PL ·	Pilot Light	wor	Wide Open Trottle
PMR	Pump Motor Relay		
PSW	Pressure Switch	2WD	Two Wheel Drive
		4WD	Four Wheel Drive
Ωty	Quantity	2WS	Two Wheel Steering
		4WS	Four Wheel Steering
R	Right	P	Park
RR	Rear Right	R	Reverse
RHD	Right Handle Drive	N	Neutral
REF	Reference	D4	Drive (1st through 4th gear)
RL	Rear Left	D3	Drive (1st through 3rd gear)
RON	Research Octane Number	2	Second
			First
SAE	Society of Automotive Engineers	1ST	Low (gear)
SOHC	Single Overhead Camshaft	2ND	Second (gear)
SOL	Solenoid	3RD	Third (gear)
SPEC	Specification	4TH	Fourth (gear)
SRS	Supplemental Restraint System	5TH	Fifth (gear)
STD	Standard		
sw	Switch		



Special Tools

Individual tool lists are located at the front of each section.



Specifications

Standards and Service Limits	3-2
Design Specifications	3-22
Body Specifications	3-27

	MEASUREME	NT	STANDARD (NEW)	SERVICE LIMIT
Com- pression	wide open throttle	Nominal Minimum Maximum variation	1,300 (13.0,184) 1,150 (11.5,166) 200 (2.0,28)	
Cylinder head	Warpage Height		92.95-93.05 (3.659-3.663)	0 05 (0.002)
Camshaft		e IN Primary Mid Secondary EX	0.05-0.15 (0.002-0.006) 0.050-0.089 (0.002-0.004) 0.03 (0.0012) max 35.900 (1.4134) 38.107 (1.5003) 36.195 (1.4250) 38.008 (1.4961)	0.5 (0.02) 0.15 (0.006) 0.06 (0.0024)
Valve	Valve clearance Valve stem 0 D Stem-to-guide clearance	IN EX IN EX IN EX	5.48-5.49 (0.2157-0.2161) 5.45-5.46 (0.2146-0.2150) 0.02-0.05 (0.0008-0.0020)	5.45 (0.2146) 5.42 (0.2134) 0.08 (0.003) 0.12 (0.005)
Valve seat	Width Stem installed height	IN EX IN EX	53.165-53.635 (2.0931-2.1116)	1.6 (0.063) 2.0 (0.079) 53 885 (2.1215) 53.885 (2.1215)
Valve spring	Free length	IN EX	57.97 (2.282) 58.41 (2.300)	
Valve guide	I.D. Installed height	IN EX IN EX	17 85 - 18 35 (0.703 - 0.722)	5 60 (0.220) 5 60 (0.220)
Rocker arm	Arm-to-shaft clearance	IN EX	0.017-0.050 (0.0007-0.0020) 0.018-0.054 (0.0007-0.0021)	0 08 (0.003) 0.08 (0.003)

specs

	MEASURE	MENT	STANDARD (NEW)	SERVICE LIMIT
Com- pression	250 min ⁻¹ (rpm) and wide open throttle kPa (kg/cm², psi)	Nominal Minimum Maximum variation	1,350 (13 5,192) 950 (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 clea Total runout Cam lobe height	rance IN EX	0.05-0.15 (0.002-0.006) 0.050-0.089 (0.002-0.004) 0.03 (0.0012) max. 33.021 (1.3000) 32.382 (1.2749)	0 5 (0.02) 0.15 (0.006) 0.06 (0.0024)
Valve	Valve clearance Valve stem O.D. Stem-to-guide clearance	IN EX IN EX IN EX	0.13-0.17 (0.005-0.007)* 0.15-0.19 (0.006-0.008)* 6.58-6.59 (0.2591-0.2594) 6.55-6.56 (0.2579-0.2583) 0.02-0.05 (0.0008-0.0020) 0.05-0.08 (0.002-0.003)	6.55 (0.2579) 6.52 (0.2567) 0.08 (0.003) 0.11 (0.004)
Valve seat	Width Stem installed height	IN EX IN EX	1.25-1.55 (0.049-0.061) 1.25-1.55 (0.049-0.061) 45.545-46.015 (1.793-1.812) 44.735-45.205 (1.761-1.780)	2.0 (0.079) 2.0 (0.079) 46 265 (1 821) 45.455 (1.790)
Valve spring	Free length Squareness	IN EX	47.49 (1.870) 46.89 (1.846)	1.6 (0.063)
Valve guide	I.D. Installed height	IN and EX IN EX	6 61-6.63 (0.260-0.261) 19 15-19.65 (0.754-0.774) 18.75-19.25 (0.738-0.758)	6 65 (0.262)

^{*}Measuring point between camshaft and rocker arm

	MEASUREN	MENT	STANDARD (NEW)	SERVICE LIMIT
Com- pression	250 min ⁻¹ (rpm) and wide open throttle kPa (kg/cm², psi)	Nominal Minimum Maximum variation	1,300 (13.0,184) 950 (9.5,135) 200 (2.0,28)	
Cylinder head	Warpage Height		 141.95—142.05 (5.589—5.593)	0.05 (0 002)
Camshaft	End play Camshaft-to-holder oil cleara Total runout Cam lobe height	IN Primary Mid Secondary EX Primary Mid Secondary	0.05-0.15 (0.002-0.006) 0.050-0.089 (0.002-0.004) 0.03 (0.0012) max. 33.088 (1.3027) 36.267 (1.4278) 34.978 (1.3774) 32.785 (1.2907) 35.720 (1.4063) 34.691 (1.3658)	0.5 (0.02) 0.15 (0.006) 0.06 (0 0024)
Valve	Valve clearance Valve stem O.D. Stem-to-guide clearance	IN EX IN EX IN EX	0.15-0.19 (0.006-0.007)* 0.17-0.21 (0.007-0.008)* 5.475-5.485 (0.2156-0.2159) 5.450-5.460 (0.2146-0.2150) 0.025-0.055 (0.0010-0.0022) 0.05-0.08 (0.002-0.003)	5.445 (0 2144) 5.420 (0 2134) 0.08 (0.003) 0.11 (0.004)
Valve seat	Width Stem installed height	IN EX IN EX	1.25-1.55 (0.049-0.061) 1.25-1.55 (0.049-0.061) 37.465-37.935 (1.4750-1.4935) 37.165-37.635 (1.4632-1.4817)	2.0 (0.079) 2.0 (0.079) 38.185 (1.5033) 37.885 (1.4915)
Valve spring	Free length	IN OUTER INNER EX	40.92 (1.611) *1 40.91 (1.610) *2 36.71 (1.443) 41.96 (1.652)*1 41.94 (1.651)*2	
Valve guide	I.D Installed height	IN EX IN EX	5.51-5.53 (0.217-0.218) 5.51-5.53 (0.217-0.218) 12.55-13.05 (0.494-0.514) 12.55-13.05 (0.494-0.514)	5.55 (0.219) 5.55 (0.219)
Rocker	Arm-to-shaft clearance	IN EX	0.025-0.052 (0.0010-0.0020) 0.025-0.052 (0.0010-0.0020)	0.08 (0.003) 0.08 (0.003)

^{*1:} NIPPON HATSUJO manufacture *2: CHUO HATSUJO manufacture

^{*}Measuring point between camshaft and rocker arm



Unit of length: mm (in)

וסוע	A9, D16Z6, D16Z7 Engine			
	MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT	
Cylinder block	Wapage of deck surface Bore diameter X Y Bore taper Reboring limit	0.07 (0.003) max 75.000—75 020 (2.9528—2.9535) 75.000—75.015 (2.9528—2.9533)		
Piston	Skirt O.D. At 15 mm (0.59 in) from bottom of shirt Clearance in cylinder Groove width (for ring) Top Second Oil	74.98-74.99 (2.9520-2.9524) 0.01-0.04 (0.0004-0.0016) 1.22-1.23 (0.0480-0.0484) 1.52-1.53 (0.0598-0.0602) 2.805-2.820 (0.1104-0.1110)	74.97 (2.9516) 0.05 (0.002) 1.25 (0.049) 1.55 (0.061) 2.85 (0.112)	
Piston ring	Ring-to-groove Top clearance Second	0.030-0.060 (0.0012-0.0024)*1 0.030-0.055 (0.0012-0.0022)*2 0.030-0.055 (0.0012-0.0022)	0 13 (0.005) 0 13 (0.005) 0.13 (0.005)	
	Ring end gap Top Second Oil D16Z6, D16Z7 D16A9	0 150.30 (0.006-0.012) 0.30-0.45 (0.012-0.018) 0.20-0.80 (0.008-0.031)*1 0.20-0.50 (0.008-0.020)*2 0.20-0.70 (0.008-0.028)*2	0 60 (0.024) 0.70 (0 028) 0.90 (0.035) } 0.80 (0.031)	
Piston Pin	O.D Pin-to-piston clearance	18.994-19.000 (0.7478-0.7480) 0.010-0.022 (0.0004-0.0009)		
Connect- ng rod	Pin-to-rod interference Small end bore diameter Large end bore diameter Nominal End play installed on crankshaft Small end bore-to-large end bore parallelism	0.014-0.040 (0.0006-0.0016) 18.96-18.98 (0.746-0.747) 48.0 (1.89) 0.15-0.30 (0.006-0.012) 0.12 (0.005)/100 max.	0.40 (0.016) 0.15 (0.006/100)	
Crank- haft	Main journal diameter Rod journal diameter Taper Out-of round End play Total runout	54 976-55.000 (2 1644-2.1654) 44.976-45.000 (1 771-1 772) 0.0025 (0.0001) max 0 0025 (0.0001) max. 0.10-0.35 (0.004-0.014) 0.03 (0.0012) max.	0.010 (0.0004) 0.010 (0.0004) 0.45 (0.018) 0.06 (0.0024)	
earings	Main bearing-to-journal oil clearance No. 1 and 5 journals No. 2, 3 and 4 journals Rod bearing-to-journal oil clearance	0.018-0.036 (0.0007-0.0014) 0.024-0.042 (0.0010-0.0017) 0.020-0.038 (0.0008-0.0014)	0.050 (0.0020) 0.050 (0.0020) 0.050 (0.0020)	

^{1:} RIKEN manufacture

^{*2:} TEIKOKU PISTON RING manufacture

	MEASUREMENT		STANDARD (NEW)	SERVICE LIMIT
Cylinder block	Warpage of deck surface Bore diameter Bore taper Reboring limit	X Y	0.05 (0 0020) 81.000—81.020 (3 1890—3.1898) 81.000—81 015 (3 1890—3.1896) ———	0.08 (0.0031)) 81 070) (3.1917) 0.05 (0.002) 0.25 (0.010)
Piston	Skirt O.D. At 15 mm (0.59 in) from bottom of skirt Clearance in cylinder Ring groove width	Top 2nd Oil	80 98-80.99 (3.1882-3.1886) 0.010-0.035 (0.0004-0.0014) 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 (3.1879) 0 05 (0 002) 1.060 (0.0417) 1.260 (0.0496) 2.840 (0.1118)
Piston ring	Piston-to-ring clearance Ring end gap	Top 2nd Top 2nd Oil	0.045-0.070 (0.0018-0.0028) 0.040-0.065 (0.0015-0.0026) 0.20-0.35 (0.008-0.014) 0.40-0.55 (0.016-0.022) 0.20-0.50 (0.008-0.020)	0 130 (0 0051) 0 130 (0 0051) 0 60 (0 024) 0 70 (0 028) 0 80 (0 031)
Piston pin	Diameter Pin-to-piston clearance		20.994-21.000 (0.8265-0.8268) 0.010-0.022 (0.0004-0.0009)	
Connect- ing rod	Pin-to-rod interference Small end bore diameter Large end bore diameter End play installed on crankshaft	Nominal	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)
Crank- shaft	Main journal diameter No. 1, 2, 4 and 5 journals No. 3 journal Rod journal diameter Journal taper Journal out of round End play Total 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 (0.00020) max 0.004 (0.00016) max 0.10-0.35 (0.004-0.014) 0.03 (0.0012) max.	0.010 (0.0004) 0.006 (0.00024) 0.45 (0.018) 0.06 (0.0024)
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)



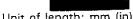
	MEASUREME	NT.	STANDARD (NEW)	SERVICE LIMIT
Engine oil	Capacity ℓ (US qt, Imp qt)	D16Z6, D16Z7	3.3 (3.5, 2.9) for oil change, including filter 3.0 (3.2, 2.6) for oil change, without filter	
Oil pump	Displacement ℓ (US gal, Imp gal)/ min @min ⁻¹ (rpm)	D16Z6, D16Z7	45 (11 9, 9 9) @6,000 63 (16.6, 13.9) @6,800	
	Inner-to-outer rotor clearance Pump housing-to-outer rotor of Pump housing-to-rotor axial c	elearance learance	0 02-0.04 (0 001-0 002) 0.10-0 18 (0 004-0 007) 0.03-0.08 (0.001-0.003)	0 2 (0.008) 0 2 (0.008) 0.15 (0.006)
Relief valve	Pressure setting 80°C (176°I kPa (kg/cm², psi)		70 (0.7, 10) min. 350 (3.5, 50) min.	

	MEASUREMEN	ıτ	STANDARD (NEW)	SERVICE LIMIT
Engine oil	Capacity & (US qt, Imp qt)		4.8 (5.1, 4.2) For engine disassembly 4.0 (4.2, 3.6) For oil change, including oil filter	
Oil pump	Displacement (US gal, Imp gal)/min@min-1	(rpm)	73 (19.3, 16.1) @7,800	
	inner-to-outer rotor clearance Pump housing-to-outer rotor cle Pump housing-to-rotor axial cle	earance	0.03-0.09 (0.0011-0.0035) 0.10-0 19 (0.0039-0.0075) 0.02-0.07 (0.0008-0.0026)	0.2 (0.008) 0.2 (0.008) 0.15 (0.006)
Relief valve	Pressure setting 80°C (176°F) kPa (kg/cm²) at i		70 (0.7, 10) min. 350 (3.5, 50) min.	

	MEASUREMENT	STANDARD (NEW)
Radiator	Engine coolant capacity ℓ (US gal, Imp gal) M/T including engine, heater, cooling line and reservoir Reservoir capacity: 0.4 ℓ (0.42 US qt, 0.35 Imp qt)	B16A2 4.8 (1.27, 1.06) for overhaul 3.9 (1.03, 0.86) for coolant change Except B16A2 4.5 (1.19, 0.99) for overhaul 3.6 (0.95, 0.79) for coolant change D16Z6, D16Z7 4.7 (1.24, 1.03) for overhaul 3.8 (1.00, 0.84) for coolant change
Radiator cap	Opening pressure kPa (kg/cm², psi)	95-125 (0.95-1.25, 14-18)
Thermostat	Start to opening °C (°F) Fully open °C (°F) Valve lift at fully open	76—80 (169—176) 90 (194) 8.0 (0.31) min.
Water pump	Displacement D16Z6, D16Z7 ℓ (US gal, Imp gal)/min D16A9 @min ⁻¹ (rpm) B16A2	125 (33.0, 27.5) @6,000 112 (29.6, 24.6) @6,000 140 (37.0, 30.8) @6,000
Cooling fan	Thermoswitch "ON" temperature °C (°F) Thermoswitch "OFF" temperature °C (°F)	91.0-95.0 (196-203) Subtract 3-8 (5-15) from actual "ON" temperature.

	MEASUREM	IENT	STAND	ARD (NEW)
Fuel pump	Displacement cc (US oz, I Relief valve opening pressure		222 (7 5, 7.8) min. 450—600 (4.5—6.0, 64-	-85)
Fuel pressure regulator	Fuel pressure with fuel regul disconnected kPa (kg/cm²		280,—330 (2.8—3.3. 40-	-47)
Fuel tank	Capacity & (US gal, Imp ga	al)	45 (11.9, 9.9)	
Engine	Idle speed min-1 (rpm)		M/T	A/T at N
	with headlight and cooling fan off	D16Z6, D16Z7 D16A9 B16A2	750 750 750	750
	Idle CO %		With TWC: 0.1 max. With	out TWC: 2.0 max

	MEASUREMENT		STANDARD (NEW)	SERVICE LIMIT
Clutch pedal	Pedal height Stroke Pedal play Disengagement height	to floor to floor to carpet	164 (6 4) 130-140 (5.1-5.5) 12-21 (0.5-0.8) 83 (3.3) 55 (2.2) min. Reference	
Flywheel	Clutch surface runout		0.05 (0.002) max.	0.15 (0.006)
Clutch disc	Rivet head depth Surface runout Thickness		1 3 (0.06) min. 0.8 (0.03) max. 8.4—9.1 (0.33~0.36)	0 2 (0 008) 1 0 (0 04) 6.0 (0.24)
Clutch cover	Pressure plate warpage		0.03 (0.001) max.	0 15 (0.006)



Unit of length: mm (in)

	Transmission S20 — Section 13 ——— MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT
Transmis-	Capacity & (U.Sqt., Impqt.)	1.8 (1.9, 1.6) at oil cha 1.9 (2.0, 1.7) at overh	aul
	End play Diameter of ball bearing contact area	0.11-0.18 (0.004-0.007) 25.977-25.990 (1 0227-1.0232)	Adjust with shim 25 92 (1.020)
	(clutch housing side) Diameter of third gear contact area Diameter of 4th, 5th gear contact area Diameter of ball bearing contact area	33 984-34.000 (1:3380-1 3386) 26 980-26.993 (1.0622-1 0627) 21 987-22.000 (0.8656-0.8661)	33.93 (1.336) 26 93 (1.060) 21 93 (0.863)
	(transmission housing side) Runout	0.02 (0.0008) max.	0.05 (0.002)
Mainshaft third and fourth gears	I.D. End play Thickness 3rd 4th 4th 4th	39.009-39 025 (1.5358-1.5364) 0.06-0.21 (0.0024-0.0083) 0.06-0.19 (0.0024-0.0075) 30.22-30.27 (1.1898-1.1917) 30.12-30.17 (1.1858-1.1878)	39.07 (1.538) 0.33 (0.013) 0.31 (0.012) 30.15 (1.187) 30.05 (1.183)
Mainshaft fifth gear	I.D. End play	37.009-37.025 (1.4570-1.4577) 0.06-0.19 (0.0024-0.0075) 28.42-28.47 (1.1189-1.1209)	37.07 (1.459) 0.31 (0.012) 28.35 (1.116)
Counter- shaft	Thickness End play Diameter of needle bearing contact area Diameter of ball bearing contact area Diameter of low gear contact area Runout	0.17-0.38 (0.0067-0.0150) 30.000-30.015 (1.1811-1.1817) 24.980-24.993 (0.9835-0.9840) 35.984-36.000 (1.4167-1.4173) 0.02 (0.0008) max.	0.53 (0.021) 29 95 (1.179) 24.93 (0.981) 35.93 (1.415) 0.05 (0.002)
Counter- shaft low gear	I.D End play Thickness	41.009-41.025 (1.6145-1.6152) 0.03-0.10 (0.0012-0.0039) 30.41-30.44 (1.1972-1.1984)	41.07 (1.617) 0.22 (0.009) 30.36 (1.195)
Counter- shaft se- cond gear	I.D. End play Thickness	44.009-44.025 (1.7326-1.7333) 0.03-0.11 (0.0012-0.0043) 31.92-31.97 (1.2567-1.2587)	44.07 (1.735) 0.23 (0.009) 31.85 (1.254)
Spacer collar (Countershaft second gear)	I.D. O D. Length	32.988-32.998 (1.2987-1.2991) 38.989-39.000 (1.5350-1.5354) 32.03-32.06 (1.2610-1.2622)	33 04 (1.301) 38.93 (1.533) 32.01 (1.260)
Spacer col- lar (Main- shaft fourth and	1.D. 4th 5th Length 5th	27.002-27.012 (1.0631-1.0635) 33.989-34.000 (1.3381-1.3386) 31.989-32.000 (1.2594-1.2598) 22.83-22.86 (0.8988-0.9000) 23.53-23.56 (0.9264-0.9276)	[.33.93 (1.336)
Reverse	I.D Gear-to-reverse gear shaft clearance	15.016-15.043 (0.5911-0.5922) 0.032-0.077 (0.0013-0.0030)	15.08 (0.594) 0.14 (0.006)
Idler gear Synchro ring	Ring-to-gear clearance (ring pushed against gear)	0.73-1.18 (0.029-0.046)	0.4 (0.016)
Shift fork	Shift fork finger thickness Fork-to-synchro sleeve clearance	6.4-6.5 (0.252-0.255) 0.25-0.45 (0.0098-0.0177)	0.8 (0.03)
Reverse shift fork	Shift fork pawl groove width Fork-to-reverse idler gear clearance Groove width Fork-to-fifth/reverse shift piece pin clearance	12.7-13.0 (0.500-0.512) 0.5-1.1 (0.020-0.043) 7.05-7.25 (0.278-0.285) 0.05-0.35 (0.002-0.014)	1 8 (0 071) 0.5 (0.02)
Shift arm	Diameter of shift rod contact area Shift arm A-to-shift rod clearance	13.005-13.130 (0.5120-0.5169) 0.005-0.230 (0.0002-0.0091)	0.35 (0.0138)
A Shift arm B	Diameter of shift arm shaft contact area Shift arm B-to-shift arm shaft clearance Shift arm B-to-shift piece clearance	13.973-14.000 (0.5501-0.5512) 0.013-0.070 (0.0005-0.0028) 0.2-0.5 (0.0079-0.0197)	0 16 (0.0063) 0.62 (0.0244)
	Shift piece diameter of shift fork shaft contact area	12.9-13.0 (0.5079-0.5118)	12.78 (0.5031)

	MEASUREMENT		STANDARD (NEW)	SERVICE LIMIT
Transmis-	Capacity & (U S qt , Imp qt.)		2 3 (2.4, 2.0) at oil ch 2.4 (2.5, 2.1) at assen	
Mainshaft	End play Diameter of ball bearing contact area (clutch housing side)		0.11-0 18 (0.004-0 007) 27.977-27.990 (1 101-1 102)	Adjust with shim 27.93 (1.10)
	Diameter of third gear contact area Diameter of ball bearing contact area (transmission housing side)		37.984—38.000 (1.495—1.496) 27.987—28.000 (1.1018—1.1024)	37 93 (1.493) 27.94 (1.10)
	Runout	_	0.02 (0.0008) max.	0.05 (0.002)
Mainshaft third and fourth gears	I D End play Thickness	3rd 4th	43.009-43.025 (1.6933-1.6939) 0.06-0.21 (0.0024-0.0083) 34.92-34.97 (1.3748-1.3768) 31.42-31.47 (1.2370-1.2390)	43.08 (1.696) 0.3 (0.012) 34.3 (1.350) 31.8 (1.252)
Mainshaft fifth gear	I.D. End play Thickness		43 009-43 025 (1.6933-1.6939) 0 06-0 21 (0.0024-0 0083) 31.42-31.47 (1.237-1.239)	43.08 (1.696) 0.3 (0.012) 31.3 (1.232)
Counter- shaft	Diameter of needle bearing contact area Diameter of ball bearing contact area Diameter of low gear contact area Runout		33.000-33.015 (1.299-1.300) 24.980-24.993 (0.9835-0.9840) 36.984-37.000 (1.45611.4567) 0.02 (0.0008) max.	32.95 (1 297) 24.94 (0 982) 36.93 (1 454) 0.05 (0.002)
Counter- shaft low gear	I.D End play		42.009-42 025 (1.6539-1.6545) 0 04-0.12 (0.0016-0.0047)	42.08 (1.657) Adjust with shim
Counter- shaft se- cond gear	I.D End play Thickness		47.009-47.025 (1.8507-1.8514) 0.05-0.12 (0.0020-0.0047) 28.92-28.97 (1.1386-1.1405)	47 08 (1.854) Adjust with collar 28.8 (1.134)
Spacer collar (Counter- shaft second gear)	I.D O D Length	A B	36 521-36.531 (1.4378-1.4382) 41.989-42.000 (1.6531-1.6535) 29 02-29.04 (1.1425-1.1433) 29.07-29.09 (1.1444-1.1453)	36.541 (1.439) 41.94 (1.651)
Spacer collar (Mainshaft fourth and fifth gears)	I.D O D Length	400	31.002-31.012 (1.2205-1.2209) 36.989-37.000 (1.4563-1.4567) 56.45-56.55 (2.2224-2.2264) 26.03-26.08 (1.0248-1.0268)	31.06 (1.223) 36 94 (1 454)

(cont'd



Unit of length: mm (in)

	MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT
Reverse Idle gear	I.D Gear-to-reverse gear shaft clearance	20.016-20.043 (0.7880-0.7891) 0.036-0.084 (0.0014-0.0033)	20.09 (0.7909) 0.16 (0.006)
Synchro ring	Ring-to-gear clearance (ring pushed against gear)	0.85-1.10 (0.033-0.043)	0.4 (0.016)
Double cone synchro ring	Clearance (ring pushed against gear) Outer synchro ring-to-gear Inner synchro ring-to-gear Outer synchro ring-to-synchro cone	0.95-1.68 (0.037-0.066) 0.5-1.0 (0.02-0.04) 0.5-1.0 (0.02-0.04)	0.6 (0.024) 0.3 (0.01) 0.3 (0.01)
Shift fork	Shift fork finger thickness Fork-to-synchro sleeve clearance	7.4-7.5 (0.291-0.295) 0.45-0.65 (0.018-0.026)	1.0 (0.039)
Reverse shift fork	Shift fork pawl groove width Fork-to-reverse idler gear clearance "L" groove width at fifth gear side at reverse gear side Fork-to-fifth/reverse shift piece pin clearance at fifth gear side at reverse gear side	13.0-13.3 (0.511-0.524) 0.5-1.1 (0.020-0.043) 7.40-7 70 (0.291-0 303) 7.05-7 25 (0.278-0.285) 0.4-0 9 (0.016-0.035) 0.05-0.45 (0.0020-0.018)	1.8 (0.07)
Shift rod guide	Groove width of shift arm contact area Shift rod guide-to-shift arm clearance	11 8-12 0 (0 4646-0 4724) 0.05-0.35 (0.002-0.014)	0.80 (0.031)
Shift guide	Groove width of shift arm contact area Shift rod guide-to-shift arm clearance I.D Guide-to-shaft clearance Diameter of shift fork contact area Guide-to-shift fork clearance	7.9-8.0 (0.311-0.315) 0.10-0.30 (0.004-0.012) 14.000-14.068 (0.551-0.554) 0.011-0.092 (0.0004-0.0036) 11.90-12.00 (0.469-0.472) 0.20-0.50 (0.008-0.020)	0.60 (0 024) 0.150 (0 0059) 0.80 (0.032)
Select arm	Diameter of shift rod guide contact area Arm-to-shift rod guide clearance Groove width of interlock contact area Arm-to-interlock clearance	11.90—12.00 (0.469—0 472) 0.05—0.25 (0.002—0 010) 10.05—10.15 (0.3957—0.3977) 0.05—0.25 (0.002—0.010)	0 50 (0 020)

	MEASUREN	TENT	STANDARD (NEW)	SERVICE LIMIT
Transmis- sion fluid	Capacity & (US qt, Imp qt)		5.9 (6.2, 5.2) for overhaul 2.7 (2.8, 2.4) for fluid change	
Hydraulic	Line pressure at 2,000 min ⁻¹ (pm) N or P	850-900 (8.5-9.0, 121-128)	800 (8.0, 114)
pressure kPa (kg/cm², psi)	2nd clutch pressure at 2,000 π	in ⁻¹ (rpm) D4	400 (4.0. 57) throttle fully closed	350 (3.5.50) throttle fully
	3rd clutch pressure at 2,000 m	in ⁻¹ (rpm) D4	 850-900 (8.5-9.0, 121-128) throttle more than 1/8 opened	closed 800 (8.0, 114)
	4th clutch pressure at 2,000 m	in ⁻¹ (rpm) D4		throttle more than 1/8 opened
	2nd clutch pressure at 2,000 m	in ⁻¹ (rpm) 2	850-900 (8.5-9.0, 121-128)	800 (8.0, 114)
	1st clutch pressure at 2,000 m	n ⁻¹ (rpm) D4 or 1	850-900 (8.5-9.0, 121-128)	800 (8.0, 114)
	1st-hold clutch pressure at 2,00	00 min ⁻¹ (rpm) at 1	850-900 (8.5-9.0, 121-128)	800 (8.0, 114)
	Governor pressure at 60 km/h (38 mph)	D16Z6, D16A8 D16A7	180-190 (1.80-1.90, 26-27) 182-192 (1.82-1.92, 26-27)	175 (1 75, 25) 177 (1.77, 25)
	Throttle pressure B	Throttle fully closed Throttle fully open	0-15 (0-0 15. 0-2) 850-900 (8.5-9.0, 121-128)	800 (8.0, 114)
	Throttle pressure A	Throttle fully closed Throttle fully open	0-5 (0-0.05, 0-1) 505-520 (5.05-5.2, 72-74)	500 (5.0, 71)
Stall speed	min-1 (rpm) (check with car on le	evel ground)	2,400-2,800	

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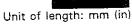


Unit of length: mm (in)

	MEASUREMENT	MEASUREMENT		SERVICE LIMIT
Clutch	Clutch initial clearance	1st. 2nd 3rd, 4th 1st-hold	0.65-0.85 (0.026-0.033) 0.40-0.60 (0.016-0.024) 0.5-0.8 (0.02-0.03)	
	Clutch return spring free length	1st 2nd, 3rd, 4th 1st-hold	31.0 (1.22) 30.5 (1.20) 34.6 (1.36)	29 0 (1.14) 28 5 (1.12) 32 6 (1.28) Until grooves
	Clutch disc thickness		1 88-2 00 (0.074-0.079)	worn out
	Clutch plate thickness	1st Except 1st	1 55-1 65 (0 061-0.065) 1.95-2.05 (0.077-0.081)	Discoloration Discoloration
	Clutch end plate thickness (except 1st-hold)	MARK 1 MARK 2 MARK 3 MARK 4 MARK 5 MARK 6 MARK 7 MARK 8 MARK 9 MARK 10 MARK 11 MARK 12 MARK 13	2.3-2.4 (0.091-0.094) 2.4-2.5 (0.094-0.098) 2.5-2.6 (0.098-0.102) 2.6-2.7 (0.102-0.106) 2.7-2.8 (0.106-0.110) 2.8-2.9 (0.110-0.114) 2.9-3.0 (0.114-0.118) 3.0-3.1 (0.118-0.122) 3.1-3.2 (0.122-0.126) 3.2-3.3 (0.126-0.130) 2.0-2.1 (0.079-0.083) 2.1-2.2 (0.083-0.087) 2.2-2.3 (0.087-0.091)	Discoloration
	Clutch end plate thickness (1st-hold)	MARK 1 MARK 2 MARK 3 MARK 4 NO MARK MARK 6 MARK 7	2.05-2.10 (0.081-0.083) 2.15-2.20 (0.085-0.087) 2.25-2.30 (0.089-0.091) 2.35-2.40 (0.093-0.094) 2.45-2.50 (0.096-0.098) 2.55-2.60 (0.100-0.102) 2.65-2.70 (0.104-0.106)	Discoloration

	MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT
rans-	Diameter of needle bearing contact area		
nission	On mainshaft and stator shaft	22 980-22 993 (0.9047-0.9052)	Wear or damage
	On mainshaft 2nd gear	35.975-35.991 (1.4163-1.4169)	A
	On mainshaft 4th gear collar	31.975-31.991 (1.2589-1.2595)	
	On mainshaft 1st gear collar	30.975-30.991 (1.2195-1.2201)	
	On countershaft (L. side)	36 004-36 017 (1 4175-1 4180)	
	On countershaft 3rd gear	31 975-31 991 (1 2589-1 2595)	
	On countershaft 4th gear	27 980-27 993 (1 1016-1 1021)	
	On countershaft reverse gear collar	31.975-31.991 (1.2589-1.2595)	
	On countershaft 1st gear collar	31.975-31.991 (1.2589-1.2595)	
	On sub-shaft (L. side)	25 991 - 26 000 (1 0233 - 1 0236)	
	On sub-shaft 4th gear collar	27.980-27.993 (1.1016-1.1021)	
	On reverse idler gear shaft	13.990-14.000 (0.5508-0.5512)	
	On mainshaft 1st gear	35.000-35.016 (1.3780-1.3786)	
	On mainshaft 2nd gear	41 000-41 016 (1 6142-1 6148)	
	On mainshaft 4th gear	38.000-38.016 (1.4961-1.4967)	. ↓
	On countershaft 1st gear	38 000 – 38 016 (1 4961 – 1 4967)	Wear or damage
	Inside diameter of needle bearing contact area	30 000 - 30:010 (1 4301 - 1:4307)	vveai oi dainage
	On countershaft 3rd gear	38 000-38.016 (1 4961-1.6967)	Wear or damage
	On countershaft 4th gear	33 000 – 33 016 (1 2992 – 1 2998)	. Wear or damage
	On countershaft reverse gear	38.000-38.016 (1.4961-1.4967)	1
	On sub-shaft 4th gear	32 000-32 016 (1 2598-1 2605)	
	On reverse idler gear	,	
	On stator shaft (R. side)	18.007—18 020 (0 7089—0.7094) 29 000—29.013 (1 1417—1 1422)	
	On stator shaft (stator side)	1	
	On reverse idler shaft holder	27.00027.021 (1.0630-1.1638)	1
		14 416—14.434 (0.5676—0 5683)	Wear or damage
	End play	0.00 0.04 (0.000 0.000)	
	Mainshaft 1st gear	0 08-0.24 (0.003-0 009)	-
	Mainshaft 2nd gear	0.05-0 13 (0.002-0.0051)	
	Mainshaft 4th gear	0 05-0.135 (0.002-0.0053)	
	Countershaft 1st gear	0.1-0.5 (0.004-0 020)	
	Countershaft 3rd gear	0.05-0.13 (0.002-0.0051)	
	Countershaft 4th gear	0 05-0.13 (0.002-0.0051)	
	Sub-shaft 4th gear	0.050.17 (0.0020.007)	`
	Reverse idler gear	0.05-0.18 (0.002-0.007)	
	Countershaft reverse gear	0 10-0.25 (0.004-0 010)	i ——
	Selector hub O.D	51 87-51 90 (2 042-2 043)	Wear or damage
	Mainshaft 4th gear collar length	45.00-45.03 (1.772-1.773)	
	Mainshaft 1st gear collar length	27.00-27.15 (1.063-1.069)	
	Mainshaft 1st gear collar flange thickness	2.52.6 (2.098-2.102)	Wear or damage
	Countershaft distance collar length	38.97 - 39.00 (1.534 - 1.535)	<u> </u>
	-	39.02-39.05 (1.536-1.537)	· artistation in
		39.07-39.10 (1.538-1.539)	
		39.12-39.15 (1.540-1.541)	
		39 17-39.20 (1.542-1.543)	·
		39.22-39.25 (1 544-1 545)	THE AMPLICATION
İ		39.27-39.30 (1.546-1.547)	
ļ		38.87-38.90 (1.530-1.531)	
		38.92-38.95 (1.532-1.533)	
Ì	Countershaft reverse gear collar length	14.5-14 6 (0.571-0.575)	
	Countershaft reverse gear collar flange thickness	2.4-2.6 (0.094-0.102)	Wear or damage
	Countershaft 1st gear collar length	14.5 – 14.6 (0.571 – 0.575)	vical of damage
	Countershaft 1st gear collar flange thickness	2.4-2.6 (0.094-0.102)	Wear or damage
		24.0-24.1 (0.945-0.949)	
-	Sub-shaft 4th gear collar length		Wear or damage
ľ	Sub-shaft 4th gear collar flange thickness	3.00-3.15 (0.118-0.124)	Wear or damage

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	atic Transmission (cont'd)— Section 14 — MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT
Trans- mission (cont'd)	Mainshaft 2nd gear thrust washer thickness	3 47-3 50 (0 137-0.138) 3 52-3.55 (0.139-0.140) 3 57-3.60 (0.141-0.142) 3 62-3 65 (0.143-0.144) 3.67-3 70 (0.145-0.146) 3.72-3.75 (0.147-0.148) 3.77-3.80 (0.148-0.150) 3 82-3.85 (0.151-0.152)	Wear or damage
	Thrust washer thickness Mainshaft 4th gear Mainshaft ball bearing L side Mainshaft 1st gear L side Mainshaft 1st gear R, side	3.87-3.90 (0.153-0.154) 4.45-4.55 (0.175-0.179) 3.45-3.55 (0.136-0.140) 1.45-1.50 (0.057-0.057) 3.43-3.50 (0.135-0.138)	Wear or damage Wear or damage
	Countershaft 3rd gear thrust washer thickness	2 97-3 00 (0 117-0 118) 3 02-3.05 (0 119-0.120) 3.07-3 10 (0 121-0.122) 3.12-3.15 (0.123-0.124) 3.17-3.20 (0.125-0 126) 3 22-3 25 (0 127-0.128) 3.27-3.30 (0.129-0.130) 3.32-3.35 (0 131-0 132) 3 37-3.40 (0 133-0.134) 3 42-3.45 (0.135-0.136) 3.47-3.50 (0 137-0 138) 3.52-3.55 (0.139-0.140)	Wear or damage
	Mainshaft 4th gear thrust washer thickness One-way clutch contact area LD Countershaft 1st gear Parking gear Mainshaft feed pipe A, O.D. (at 15 mm from end) Mainshaft feed pipe B, O.D. (at 30 mm from end) Countershaft feed pipe O.D. (at 15 mm from end) Sub-shaft feed pipe O.D. (at 15 mm from end) Mainshaft sealing ring thickness	2 93-3.00 (0.115-0.118) 83.339-83.365 (3.2810-3.2821) 66.685-66.698 (2.6254-2.6259) 8.97-8.98 (0.353-0.354) 5.97-5.98 (0.2350-0.2354)	Wear or damage 8.95 (0.352) 5.95 (0.234) 7.95 (9.313) 7.95 (0.313) 1.80 (0.071)
	(29 mm and 35 mm) Mainshaft bushing L.D. Mainshaft bushing L.D. Countershaft bushing L.D. Sub-shaft bushing L.D. Mainshaft sealing ring groove width Sealing ring contact area L.D.	6.018-6.030 (0.2369-0.2374) 9.000-9.015 (0.3543-0.3549) 8.000-8.015 (0.3150-0.3156) 8.000-8.015 (0.3150-0.3156) 2.025-2.060 (0.0797-0.081) 35.000-35.025 (1.3780-1.3782)	6.045 (0.2380) 9.030 (0.355) 8.030 (0.3161) 8.030 (0.3161) 2.080 (0.082) 35.050 (1.3799)
Regulator valve body Shifting	Reverse shift fork finger thickness	5.90-6.00 (0.232-0 236)	5.40 (0.213) Wear or
device and parking brake control	Parking brake ratchet pawl Parking gear	27.0-27.1 (1.063-1.067)	other defect
Servo body	Shift fork shaft bore I.D. Shift fork shaft valve bore I.D.	14.000-14.010 (0.5512-0.5516) 37.000-37.039 (1.4567-1.4582)	37.045 (1.4585
Oil pump	Oil pump gear side clearance Oil pump gear-to-body clearance Drive Driven Oil pump driven gear I.D.	0.03-0.05 (0.001-0.002) 0.210-0.265 (0.0083-0.0104) 0.070-0.125 (0.0028-0.0049) 14.016-14.034 (0.5518-0.5525) 13.980-13.990 (0.5504-0.5508)	0.07 (0.003) Wear or damage Wear or damage

(cont'd)

Automatic Transmission (cont'd) - Section 14 -STANDARD (NEW) **MEASUREMENT** No. of Coils Wire Dia. Free Length O.D. 1.8 (0.07) 14 7 (0.58) 88.6 (3 49) 16.5 Regulator valve spring A Springs 44.0 (1.73) 7.5 Regulator valve spring B 1.8 (0.07) 9.6 (0.38) 26 4 (1 04)* 30.3 (1.19) 2.1 Stator reaction spring 5.5 (0.22) 8.4 (0.33) 33.8 (1.33) 12.5 Torque converter check valve spring 1.1 (0.04) 1.2 (0.05) 7.0 (0.28)* 27.2 (1.07) 8.0 Modulator valve spring 8.6 (0.34) 37.1 (1.46) 13.4 Relief valve spring 1 1 (0.04) 1.1 (0.04) 8.4 (0.33) 33.8 (1.33) 12.5 Cooler check valve spring 1 0 (0.04) 18 8 (0 74) 32.9 (1 30) 4 1 Governor spring A 0.9 (0.04) 11.8 (0.47) 27 8 (1.09) 6.0 Governor spring B 0.9 (0.04) 11.8 (0.47) 29.1 (1 15) 6.0 2-3 orifice control valve spring 0.9 (0.04) 6.6 (0.26) 33.2 (1.31) 14.9 4-3 kick-down valve spring 1.0 (0.04) 6.6 (0.26) 29.9 (1 18) 14.7 2/3-4 orifice control valve spring 1.0 (0.04) 8 6 (0 34) 51.9 (2.04) 19.8 6.0 Throttle valve spring A 1.0 (0.04) 8.5 (0.33) 22.2 (0.87) 5.5 Throttle valve spring A 1.0 (0.04) 8.5 (0.33) 22.1 (0.87) 8.5 (0.33) 22.3 (0.87) Throttle valve spring A 1 1 (0.04) 8.1 76 8.5 (0.33) 22.3 (0.87) Throttle valve spring A 1.1 (0.04) 30 (1.18) 8 0.8 (0.03) 6 2 (0 24) Throttle valve adjust spring B 8 5 6.2 (0.24) 27 (1.06) 0.8 (0.03) Throttle valve adjust spring A 8.5 (0.33) 10.5 1.4 (0.06) 41.5 (1.63) Throttle valve spring B 1.4 (0.06) 8.5 (0.33) 41.5 (1.63) 112 Throttle valve spring B 1.4 (0.06) 8.5 (0.33) 41.6 (1.64) 12.4 Throttle valve spring B 1-2 shift valve spring 0.45 (0.018) 5 1 (0.20) 52.8 (2.08) 29 1-2 shift valve ball spring 0 45 (0 018) 4 5 (0.18) 10.7 (0.42) 12.7 2-3 shift valve spring 0.9 (0.04) 7.1 (0.28) 64..7 (2..55) 32.1 7.3 2-3 shift valve ball spring 0.4(0.02)4.5 (0.18) 14.7 (0.58) 3-4 shift valve spring 0 9 (0 04) 9 6 (0.38) 32.5 (1.28) 10.3 7.4 3-4 shift valve ball spring 0.5 (0.02) 4.5 (0.18) 11.3 (0.44) 8.3 71 7 (2.82) 1st-hold accumulator spring 4.0 (0.16) 21.5 (0.85) 79.8 (3 14) 8 5 2.6 (0.10) 24 3 (0 96) 1st accumulator spring 8.7 3.5 (0.14) 22 (0.87) 75.4 (2 97) 2nd accumulator spring 91.8 (3.61) 15.8 2.6 (0.10) 17.5 (0.69) 3rd accumulator spring 2.6 (0.10) 16 (0.63) 89.4 (3.52) 16.2 4th accumulator spring 73 7 (2.90) 0.9 (0.04) 7 6 (0.30) 32 Lock-up shift valve spring 27.6 0.8 (0.03) 6.6 (0.26) 61.5 (2.42) Lock-up timing valve spring 0.9 (0.04) 6.6 (0.26) 41.0 (1.61) 23.3 Lock-up control valve spring 0.8 (0.03) 7.6 (0.30) 44.5 (1.75) 17 Governor cut valve spring 0.9 (0.04) 8.4 (0.33) 24.9 (0.98) 9.8 CPC valve spring A 20 8 Reverse control valve spring 0.7 (0.03) 7.1 (0.28) 40 (1.57) 3-2 timing valve spring 1.2 (0.05) 8.6 (0.34) 46 9 (1.85) 15.2 3-2 kick-down valve spring 1.3 (0.05) 8.6 (0.34) 45 6 (1.80) 17 6.4 (0.25) 34.1 (1 34) 17.5 Servo control valve spring 0.9 (0.04) 0.7 (0.03) 5.6 (0.22) 33 (1.30) 21.7 2-1 timing valve spring 0.9 (0.04) 43.3 (1.70) 6.6 (0.26) 22 4th exhaust valve spring

^{*:} Inside diameter



Unit of length: mm (in)

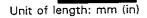
	MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT
Ring gear	Backlash	0.07-0.130 (0.0028-0.0051)	0.180 (0.0071)
Differential carrier	Pinion shaft bore diameter Carrier-to-pinion shaft clearance Drivershaft bore diameter Except D16A9 D16A9 Carrier-to-driveshaft clearance	18.000—18.018 (0.7087—0.7094) 0.013—0.047 (0.0005—0.0019) 26.025—26.045 (1.0246—1.0254) 28.025—28.045 (1.1033—1.1041) 0.045—0.086 (0.0018—0.0034)	0.095 (0.004)
Differential pinion gear	Backlash Pinion gear bore diameter Pinion gear-to-pinion shaft clearance	0.05-0.15 (0.002-0.006) 18.042-18.066 (0.7103-0.7113) 0.055-0.095 (0.0021-0.0037)	0.150 (0.0059)
Set ring-to-	-bearing outer race	00.1 (00.004)	Adjust

	MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT
Ring gear	Backlash	0.085-0.142 (0.003-0.006)	0.200 (0.008)
Differential carrier	Pinion shaft bore diameter Carrier-to-pinion shaft clearance Drivershaft bore diameter Carrier-to-driveshaft clearance	18.000-18.016 (0.7087-0.7093) 0 013-0.045 (0 0005-0 0020) 28.000-28.021 (1 102-1.103) 0.025-0.066 (0.001-0.003)	0.100 (0.004)
Differential pinion gear	Backlash Pinion gear bore diameter Pinion gear-to-pinion shaft clearance	0.05-0.15 (0.002-0.006) 18 042-18.066 (0.710-0.711) 0.057-0.095 (0.002-0.004)	0.150 (0.006)
Set ring-to-	bearing outer race	0-0.1 (0-0.004)	Adjust

	MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT
Final driven gear	Backlash	0.071-0.129 (0.0028-0.0051)	
Differential carrier	Pinion shaft contact area I.D. Carrier-to-pinion clearance Drivershaft contact area I.D. Carrier-to-driveshaft clearance Ball bearing contact area O.D.	18.000-18.018 (15.8382-15.8540) 0.016-0.052 (0.0006-0.0024) 28.005-28.025 (1.1026-1.1033) 0.025-0.066 (0.0010-0.0026) 40.002-40.018 (1.5749-1.5755)	0.10 (0 004)
Differential pinion gear	Backlash I.D. Pinion gear-to-pinion shaft clearance	0.05-0.15 (0.002-0.006) 18.042-18.066 (0.7103-0.7113) 0.059-0.095 (0.0023-0.0037)	0.15 (0.006)
Set rina-to-	bearing outer race	0-0.15 (0-0.006)	Adjust with shim

	ng — Section 17 ———————————————————————————————————	STANDARD (NEW)	
Steering wheel	Play at steering wheel circumference Starting load at steering wheel circumference N (kg, lb) Manual steering Power steering Engine idling	0-10 (0-0.4) 13-18 (1.3-1.8, 2.87-3.97) 32 (3.2, 7.1)	
Gearbox	Angle of rack-huide-screw loosened LHD from locked position RHD Preload at pinion gear shaft N·m (kg-cm, lb-in) LHD RHD	20 $^{+5^{\circ}}_{-0^{\circ}}$ 25° max. 0.6-1.1 (6-11, 5.2-9.5) 0.7-1.2 (7-12, 6.1-10.4)	
Pump	Pump pressure with valve closed (oil temp./speed: 40°C (105°F) min./idle. Do not run for more than 5 seconds) kPa (kg/cm², psi)	8,000-9,000 (80-90, 1,138-1,280) 5,500-6,500 (55-65, 398-470)	
Power steering fluid	Recommended power steering fluid Fluid capacity System LHD (US qt, Imp qt) RHD Reservoir	HONDA Power Steering Fluid-V 1 1 (1.16, 0.97) 1.0 (1.06, 0.88) 0.4 (0.42, 0.35)	
Power steering belt*	Deflection with 100 N (10 kg, 22 lb) between pulleys Except D16A9 D16A9	8.0-12.0 (0.31-0.47) with used belt 6.0-9.5 (0.24-0.37) with new belt 5.5-9.0 (0.22-0.35) with new belt	
Deit	Tension measured with belt tension gauge N (kg, lb) Except D16A9 D16A9	350-500 (35-50, 77-110) with used belt 500-700 (50-70, 110-154) with new belt 550-750 (55-75, 121-165) with new belt	

^{*:} When using a new belt, first adjust the deflection or tension to the values for the new belts, then readjust the deflection or tension to the values for the used belts after running engine for five minutes.



– Suspe	nsion — Se	MEASUREMENT	•	STANDARD (NEW)	SERVICE LIMIT
Wheel alignment	B16A2	Camber Caster Total toe Front wheel turning angle	Front Rear Front Front Rear Inward wheel Outward wheel	$-0^{\circ}20' \pm 1^{\circ}$ $-0^{\circ}30' \pm 1^{\circ}$ $1^{\circ}10' \pm 1^{\circ}$ $0 \pm 2.0 (0 \pm 0.08)$ $1N 2.0 \pm \frac{1}{2} (0.08 \pm 0.08)$ $36^{\circ} \pm 2^{\circ}$ $30^{\circ}30'$	
	Except B16A		Front Rear Front Front Rear Inward wheel Outward wheel	$-0^{\circ}15' \pm 1^{\circ}$ $-0^{\circ}30' \pm 1^{\circ}$ $1^{\circ}10' \pm 1^{\circ}$ $0 \pm 20 (0 \pm 0.08)$ IN $2.0^{+2}_{-1} (0.08^{+0.08}_{-0.04})$ $40^{\circ}00' \pm 2^{\circ}$ $33^{\circ}00'$	
Wheel	Rim runout	Aluminum wheel Steel wheel	Axial Radial Axial Radial	00.7 (0-0.028) 0-0.7 (0-0.028) 0-1.0 (0-0.039) 0-1.0 (0-0.039)	2.0 (0.078) 1.5 (0.059) 2.0 (0.078) 1.5 (0.059)
Wheel	End play		Front Rear	0-0.05 (0-0.002) 0-0.05 (0-0.002)	

	MEASUREM	STANDARD (NEW)		SERVICE LIMIT	
Parking brake lever	Play in stroke at 200 N (20 k	To be locked when pulle 6-10 notches	ed		
Foot brake pedal	Pedal height (with floor mat r	160 (6.30) 165 (6.50) 1-5 (0.04-0.20)			
Master cylinder	Piston-to-pushrod clearance	0-04 (0-0.016)		-	
Disc brake	Disc thickness Front Rear Disc runout Front Rear Disc parallelism Front and r Pad thickness Front Rear	ear	21.0 (0.83) 9.0 (0.35) 10.0 (0.39) 7.5 (0.03)		19.0 (0 75) 8.0 (0 31) 0.10 (0.004) 0.15 (0.004) 0.015 (0.0006) 3.0 (0 12) 1.6 (0.06)
Rear brake drum	I.D Lining thickness		180 (7 09) 4.5 (0.18)		181 (7.13) 2.0 (0.08)
Brake booster	Characteristics at 200 N (20 kg,	44 lb) pedal force. Without ABS	Vacuum mmHg (inHg) O (0) 300 (11.8) 500 (19.7)	1,210 (12: 5,360 (53: 7,860 (78:	6, 762) 6, 1.118)
		With ABS	0 (0) 300 (11.8) 500 (19.7)	830 (8.3, 1 5,480 (54 8 8,250 (82.5	3, 779)

	MÉASUREMENT		STANDARD (NEW)		
			NIPPONDENSO	SANDEN	
Air condi- tioner system	Lubricant capacity cc (fl oz)	Condenser Evaprorator Line or hose Receiver	15 (1/2) 35 (1-1/6) 10 (1/3) 10 (1/3)	20 (2/3) 45 (1-1/2) 10 (1/3) 10 (1/3)	
Com- pressor	Lubricant capacity cc (US oz, Imp oz) Stator coil resistance at 20°C (68°F), Ω Pulley-to-pressure plate clearance		60-100 (2.03-3.38, 2.11-3.52) 3.4-3.8 0.35-0.65 (0.014-0.026)	120-140 (4 06-4.73, 4.22-4.93) 2 65-2.95 0 35-0.65 (0.014-0.026)	
Compres- sor belt*	Deflection with 100 N (10 kg, 22 lb) between pulleys		6.5-10.5 (0.26-0.41) with used belt 5.0-7.0 (0.20-0.28) with new belt		
	Tension measured with belt tension gauge N (kg, lb)		350-500 (35-50, 77-110) with used belt 600-800 (60-80, 132-176) with new belt		

^{*:} When using a new belt, first adjust the deflection or tension to the values for the new belts, then readjust the deflection or tension to the values for the used belts after running engine for five minutes.



Unit of length: mm (in)

	MEASUREMENT	STANDARD (NEW)
Ignition coil	Rated voltage V Primary winding resistance Ω at 20°C (68°F) Secondary winding resistance kΩ at 20°C (68°	12 0.6-0.8 F) 12.8-19.2
Spark plug	Type Gap	See Section 23 1.0-1.1 (0.39-0.43)
Ignition timing	At idling ° BTDC	16° (Red) BTDC
Alternator belt*	Deflection with 100 N (10 kg, 22 lb) between pulleys Except B16. B16A2	7.0-10.5 (0.28-0.41) with used belt 5.5-8.0 (0.22-0.31) with new belt 5.0-7.0 (0.20-0.28) with new belt
	Tension measured with belt tension gauge N (kg, lb) Except B16. B16A2	350-550 (35-50, 77-110) with used belt 550-750 (55-75, 121-165) with new belt 700-900 (79-90, 154-198) with new belt
Alternator (NIPPON- DENSO)	Output 13.5 V at hot A Coil resistance (rotor) Ω Slip ring O D Brush length Brush spring tension g (oz)	70 2.9 14 4 (0.567) 10.5 (0.41) 330 (11.6)
Alternator (MITSUB/SHI)	Output 13.5 V at hot A Coil resistance (rotor) Ω Slip ring O.D. Brush length Brush spring tension g (oz)	70 3 4-3.8 22.7 (0.89) 22.0 (0.87) 300-450 (10.6-15.9) 22 2 (0.87) 8.0 (0.31)
Alternator (NIPPON- DENSO)	Output 13.5 V at hot A Coil resistance (rotor) Ω Slip ring O D Brush length Brush spring tension g (oz)	80 2.8-3.0 14.4 (0.567) 10.5 (0.41) 300-360 (10.6-12.7) 14.0 (0.551) 5.5 (0.22)
Starter motor (MITSUBA) 1.0 kW, 1.2 kW, 1.4 kW)	Type Mica depth	Gear reduction 0.4-0 5 (0 016-0.020) 0-0 02 (0-0 001) 28.0-28.1 (1.102-1.106) 14 3-14.7 (0 56-0.58) 18 5-23.5 (1 85-2.35, 4.1-5.2) 16-18 (1.6-1.8, 3.5-4.0)
Starter motor, (NIPPON- DENSO 1.0 kW, 1.2 KW)	Type Mica depth Commutator runout Commutator O D Brush length Brush spring tension (new) N (kg,lb) 1.0 kW 1.2 kW	Gear reduction 0.5-0.8 (0 02-0 03) 0-0 02 (0-0.001) 29 9-30 0 (1.177-1.181) 13 0-13.5 (0.51-0 53) 17-24 (1 70-2.40. 3.7-5.3) 14.0-20.0 (1.4-2.0, 3.1-4.4)

^{* :}When using a new belt, first adjust the deflection or tension to the values for the new belt, then readjust the deflection or tension to the values for the used belt after running engine for five minutes.

Design Specifications

	ITEM		METRIC	ENGLISH	NOTES
DIMENSIONS	Overall Length		4.005 mm	157.7 in	
	Overall Cerigin		4.015 mm	158 1 in	Finnish model
(European)	Overall Width		1,695 mm	66.7 in	
			1,255 mm	49.4 in	
	Overall Height		2.370 mm	93.3 in	
	Wheelbase		1,475/1,465 mm	58.1/57.7 in	
	Track Front/Rear		140 mm	5.5 in	
	Ground Clearance Seating Capacity		Tv		
			2.005	157 2 in	KQ type
DIMENSIONS	Overail Length		3,995 mm	157.4 in	KY type
(Except			3,997 mm	66.7 in	KI typo
European)	Overall Width		1,695 mm		
	Overall Height		1,255 mm	49.4 in	VV turns
			1 .276 mm	502 in	KY type
	Wheelbase		2,370 mm	93.3 in	
			2,372 mm	93.4 in	KY type
	Track Front/Rear		1,475/1,465 mm	58.1/57.7 in	
	Ground Clearance		140 mm	5.5 in	
			161 mm	6.3 in	KY type
	Seating Capacity		Tw	/0	
WEIGHT	Curb weight				
(European)	ESi	M/T	1,050 kg	2,315 lb	KG KF, KE types
(Caropour.)			1,055 kg	2,326 lb	KS type
		A/T	1,080 kg	2,381 lb	KG, KF, KE types
			1,085 kg	2,392 lb	KS type
	VTi		1 105 kg	2.436 lb	KG, KF types
			1 120 kg	2,469 lb	KE type
			1 110 kg	2,447 lb	KS type
	VTi with power roof		1,160 kg	2,557 lb	KG KF types
	VIII VIEN POVISI 100.		1,175 kg	2.590 lb	KE type
			1,165 kg	2,568 lb	KS type
	Weight distributions (Front/Rear)				
	ESi	M/T	650/400 kg	1.433/882 lb	KG. KF. KE types
			655/400 kg	1.444/882 lb	KS type
		A/T	680/400 kg	1,499/882 lb	KG, KF KE types
			685/400 kg	1,510/882 lb	KS type
				·	(except Sweder
	VTi		695/410 kg	1,532/904 lb	KG. KF types
	1		705/415 kg	1.554/915 lb	KE type
			700/410 kg	1,543/904 lb	KS type
	VTi with power roof		700/460 kg	1,543/1,014 lb	KG. KF types
	VII WILL POWER TOO		710/465 kg	1 565/1,025 lb	KE type
			705/460 kg	1,554/1,014 lb	KS type
	Max permissible weight (EC)				
	ESi		1,032 kg	2.910 lb	
	VTi, VTi with power roof		1,430 kg	3.153 lb	1



_		ITEM	METRIC	ENGLISH	NOTES
WEIGHT	Curb weight				
(Except	Si		1,040 kg	2,293 lb	KP. KT types
European)	Si with	power roof	1.157 kg	2,551 lb	KY type
,			1.095 kg	2.414 lb	KP, KT types
	SiR		1.115 kg	2.458 lb	KQ type
		h power roof	1,169 kg	2,577 lb	KQ type
	Weight distributions	(Front/Rear)			
	Si	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	640/400 kg	1,411/882 lb	KP, KT types
	Si with	power roof	678/479 kg	1,495/1,056 lb	KY type
			645/450 kg	1,422/992 lb	KP, KT types
	SiR		699/416 kg	1,541/917 lb	KQ type
	1	h power roof	704/465 kg	1,552/1,025 lb	KQ type
ENGINE	Туре	D16Z6 D16Z7 engine	Water-cooled, 4-s	troke SOHC VTEC	
		-	· · · · · · · · · · · · · · · · · · ·	e engine	
		D16A9 engine		DOHC gasoline engine	-
		B16A2 engine	Water-cooled, 4-s	troke DOHC VTEC	
		_	gasoline	e engine	
	Cylinder Arrangemei	nt	In-line 4-cyline	der, transverse	
	Bore and Stroke	D16Z6, D16Z7 engine	75.0 x 90.0 mm	2.95 x 3.54 in	
		D16A9 engine	75.0 x 90.0 mm	2.95 x 3.54 in	
	-	B16A2 engine	81.0 x 77 4 mm	3 19 x 3.05 in	
	Displacement	D16Z6. D16Z7 engine	1.590 cm ³ (cc)	97.0 cu-in	
		D16A9 engine	1.590 cm ³ (cc)	97 0 cu-in	k
		B16A2 engine	1 595 cm ³ (cc)	97 3 cu-in	ü
	Compression Ratio	D16Z6. D16Z7 engine		2:1	
	Compression reado	D16A9 engine		5:1	
		B16A2 engine		2:1	
	Valve Train	D16Z6, D16Z7 engine		SOHC VTEC	
	Valve Halli	D 1020, D 1027 engine	i e	er cylinder	
		D16A9 engine	1	-valves per cylinder	
		B16A2 engine		DOHC VTEC	
		BTOAZ engine		er cylinder	
	Lubrication System		Forced and wet su	•	
	E	D16Z6. D16Z7. B16A2	, .	grade gasoline with	
	Fuel Required			= =	
		engine	1	ne Number or higer	
		D16A9 engine	98 research Octane	rade gasoline with Number or higher	
STARTER	Makes/Type			n. 1.0. 1.2 and 1.4 kW	
SIMPLED	Mercal Lype			eduction, 1.0. 1.2 kW	
	Normal Output		1.0, 1.2 ar		
	Nominal Voltage		12		
	Hour Rating		30 sei		
	Direction of Rotation		Clockwise as view		
	Direction of Horagon	MITSUBA 1 0 1 2 kW	3.4 kg	7 5 lb	
		1 4 kW	3.5 kg	7.7 lb	
		NIPPONDENSO 1 0 kW	3.85 kg	8.49 lb	
Section 2		1.2 kW	3.4 kg	7.5 lb	
	Church Torre		 		
CLUTCH	Clutch Type	. M /T	Single plate dry		
	Cl	A/T	Torque converter v	' '	Event 01642
	Clutch Facing Area	M/T	176 cm ²	27 sq-in	Except B16A2 engir
			203 cm ²	31 sq-in	B16A2 engine

Design Specifications

	ITEM		METRIC	;	ENGLISH	NOTES
TRANSMISSION	Transmission Primary Reduction	M/T A/T	4-spe	d 5-speed forward autock-up clutch, 1 Direct 1:1	omatic	
	Туре			Manual]
			S20 for D16Z6 D16Z7 engine	S20 for D16A9 engine	Y21 for B16A2 engine	
	Gear Ratio	1st 2nd 3rd 4th 5th	3 250 1 900 1 250 0 937 0 771	3 250 1.900 1.250 0 909 0.750	3 230 2 105 1 458 1 107 0 875	
		Reverse	3.153	3.153	3.000 4.266	<u> </u>
	Final Reduction	Gear ratio Gear type	4.250 S	4.250 lingle helical ge		}
	Туре			Automatic		
	,		M24A fo	r D16Z6, D16Z	7 engine	
	Gear Ratio	1st 2nd 3rd 4th Reverse		2 600 1 393 0 975 0 772 1.954		
	Final Reduction	Gear ratio		4.333 ingle helical ger		
AIR CONDITIONING	Cooling Capacity — Conditions: Compressor Speed Outside Air Temperature Outside Air Humidity Condenser Air Velocity Blower Capacity	Gear type	LHD: 3,730 k RHD: 3,800 k 2 35 → 25 →	(cal/h 14, (cal/h 15, .200 min ⁻¹ (rpr 20°C 95 → 80 % → 30 % c 1	800 BTU/h 078 BTU/h n)	at 12 V
	No of Capac Max.		85 6 cc/re	000 min ⁻¹ (rp	2 cu-in/rev	Except B16A2 engine
	No of Capac Max.		155 3 cc/r	.600 min ⁻¹ (rpr	7 cu-in/rev	B16A2 engine



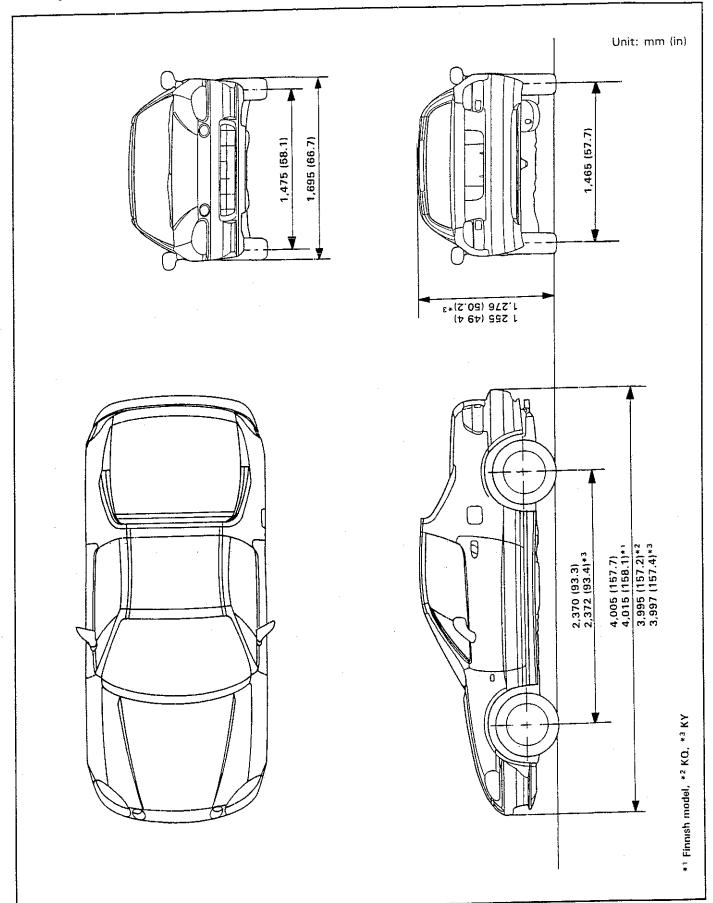
		ITEM	METRIC	ENGLISH	NOTES
AIR	Condenser	Type	Corrugate	d fin type	
CONDITIONER (cont'd)	Evaporator	Туре	LHD: Corrug RHD: Lamina		<u> </u>
	Blower	Type Motor Input Speed Control Max. Capacity	200 W	co fan //12 V variable 15,188 cu-ft/h	at 12 V
	Temp. Control			x type	
	Comp Clutch	Type Power Consumption	Dry: single plate, 42 W m	poly-V-belt drive ax./12 V	
	Refrigerant	Type Quantity	650 ^{+ 0} _{- 50} g	12 22.9 ^{+ 0} _{- 1.8} oz	
STEERING SYSTEM	Type Overall Ratio		LHD: RHD: RHD:	rack and pinion 17.7 17.1 16.6	Except B16A2 engine B16A2 engine
	Turns Lock-to-Loc	ck	LHD: RHD:	3.58 3.25 3.47 3.05	Except B16A2 engine B16A2 engine Except B16A2 engine B16A2 engine
	Steering Wheel Di	a	375 mm	14.8 in	·
SUSPENSION	Type, Front and R Shock Absorber, F	ear Front and Rear	Independent double Telescopic, hydraul	wishbone coil spring ic nitrogen gas-filled	
WHEEL	Camber Caster Toe	Front Rear Front Front Rear	-0'	915′ 920′ 930 10′ 0 in In 0.08 in	Except B16A2 engine B16A2 engine
BRAKE SYSTEM	Type, Front		ventila Power assisted sell	d self-adjusting ted disc -adjusting solid disc	
	Pad and Lining Su	Rear	51 5 cm ² x 2 21 0 cm ² x 2 50 2 cm ² x 2	7.94 sq-in x 2 3.26 sq-in x 2 7.78 sq-in x 2	Disc. 210 mm dia Disc Drum 180 mm LD
	Parking Brake Kind	d and Type		rear two wheel brakes	
TIRE	Size/Pressure			r's door jamb.	

Design Specifications

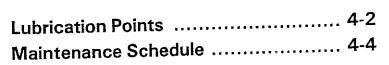
	ITEM	METRIC	ENGLISH	NOTES
ELECTRICAL	Battery	12 V-36 AH/5 HR, 1	2 V-38 AH/5 HR.	
		12 V-47 A	H/5 HR	
	Starter	12 V-1.0 kW, 12 V-1.2	2 kW, 12 V-1.4 kW	
	Alternator	12 V-70 A. 1	2 V-80 A	
	Fuses	1		
	In The Under-dash Fuse/Relay Box	See the fuse label	attached to the	
		inside of the fuse/r	elay box cover	
		under the da	shboard.	
	in The Under-hood Fuse/Relay Box	See the fuse/rela	y box cover	
	Headlights Inside * 1	12 V-60/!	55 W	
	Outside	12 V-60/!	55 W	
	Front Turn Signal Lights*1	12 V-21 V	w	
	Front Parking Lights*1	12 V-5 V	W	
	Front Turn Signal/Parking Lights*2	12 V-43	/3CP (27/8 W)	
	Side Turn Signal Lights	12 V-5 W	'	
	Rear Turn Signal Lights	12 V-21 \	W	
	Brake/Taillights	12 V-21/5	5 W	
	Back-up Lights	12 V-21 \	N	
	Accessory Light*2	12 V-45 (CP	
	Rear Fog Light*3	12 V-21 V	N	
	License Plate Lights	12 V-5 W	,	
	Interior Light	12 V-5 W	'	
	Trunk Light	12 V-3 4	W	
	Stop Lights * 4	12 V-5 W		
	Gauge Lights	12 V-3.0		
	Indicator Lights	12 V-1 4		
	Illumination and Pilot Lights	12 V _: 1.4 W, 1.12	·	
		12 V-0.91 W, 0.	F F	
	Heater Illumination Lights	12 V-1.4	₩ W	

^{*1:} Except KY
*2: KY
*3: European models
*4: Except KP. KT











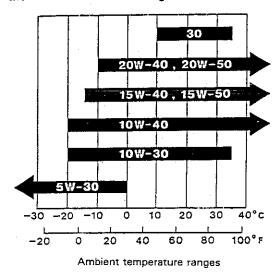
Lubrication Points

For the details of lubrication points and types of lubricants to be applied, refer to the Illustrated Index and various work procedures (such as Assembly/Reassembly, Replacement, Overhaul, Installation, etc.) contained in each section

No.	LUBRICATION I	POINTS	LUBRICANT
1	Engine		API Service Grade: SG or SF fuel efficient oil
2	Transmission	Manual	API Service Grade: SF or SG, 10 W-30 or 10 W-40
		Automatic	Honda Premium Formula automatic transmission fluid or DEXRON® II automatic transmission fluid
3	Brake Line		Brake fluid DOT3 or DOT4
4	Clutch Line		Brake fluid DOT3 or DOT4
5	Power steering gearbox		Steering grease P/N 08733-B070E
6	Shift lever pivots (M/T)		Silicone grease with molybdenum disulfide
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Release fork (M/T) Steering boots Steering column bushings Steering ball joints Select lever (A/T) Pedal linkage Brake master cylinder push Trunk hinges and latch (Mideo Door hinges upper and low Door opening detents Fuel filler lid Engine hood hinges and enclutch master cylinder push Throttle cable end Rear brake shoe linkages	anual roof) /er igine hood latch	Multi-purpose grease
22	Caliper Piston seal, Dus Caliper pin, Pist		Silicone grease
23	Power steering system		Honda power steering fluid-V

Recommended Engine Oil

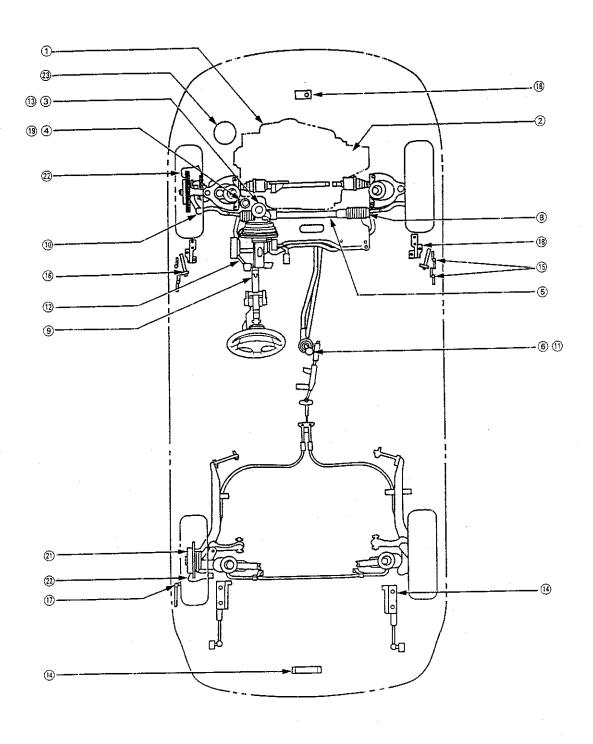
API Service Grade: SG or SF fuel efficient oil. Select the oil for the car according to this chart.



CAUTION: Used engine oil may cause skin cancer if repeatedly left in contact with the skin for prolonged periods. Although this is unlikely unless you handle used oil on a daily basis, it is still advisable to thoroughly wash your hands with soap and water as soon as possible after handling used oil.



NOTE: LHD is shown; RHD is symmetrical



R-Replace 1-Inspect After inspection, clean, adjust, repair or replace if necessary.

Service at the interval listed x 1,000 km (or miles) or after that number of months, whichever comes first	(or miles) or after that	× 1,000 km	10	20	30	40	20	99	70	80	90	100
	1	x 1,000 miles	9	12	18	24	30	36	42	48	54	09
		months	9	12	2	2.4	S	90	ç	5		3 3
Emission Related					?	<u>;</u>	3	3	7 1	0	45	3
☐ Air Cleaner Element	For European and KQ types	types				6				ļ.,	}	
	Except for European and KO types	and KO types		6		r (İ	-		œ		
Idle speed and idle CO	Expent for KC tuno	code ou		·		Ŧ		~		~		œ
	For KS type			-		-		-		-		-
Evaporative emission control system												-
Ignition timing and control system	Except for KS types					-		+				-
	For KS types					-				-	1	
Positive crankcase ventilation valve	Except for KS types					T-				-		-
	For KS types					-		+		-	+	
Valve clearance				-		-		1.				-
Fuel filter (Including aux. filter)				-		- 0		-		-	-	-
Tank, tuel line and connections					-	r				æ		
Spark place	1					-				_		_
	For cars with three way catalytic converter	ay catalytic					-			æ		
	For cars without three	rs without three way catalytic		æ		CC		4		0		c
Distributor Idultion can and rotor								=		=		ς
lotor pile des roughs caronnas	except for NS type					_						
	For KS type											-
ignition wiring	Except for KS type					_				-		
	For KS type			-							T	-
Engine oil and oil filter			œ	æ	Œ	Œ	~	a	۵	0	c	-
Alternator drive belt	-					: -		-	=	د ا -		r
Power steering pump belt						-	-	†	1	-		
Cooling system hoses and connections	S				T	- -		+		-	1	
Radiator coolant					1	-	1	+		-		
Transmission oil							1					
Day to day over investigation of ATF						<u>-</u> ا			_	œ		

Day to day care (engine oil, ATF and coolant level) should be done practically according to the owner's manual by the customer.
 Under severe driving conditions, service these items more often.
 For KS type, replace every 2 years or 40,000 km (24,000 miles), whichever comes first after 30,000 km (18,000 miles).



R-Replace 1-Inspect After inspection, clean, adjust, repair or replace if necessary.

Service at the interval listed x 1,000 km (or miles) or after that	× 1,000 km	10	20	30	40	20	09	70	80	90	100
righted of morning, withoutevel collies first.	x 1,000 miles	9	12	18	24	30	36	42	48	54	09
	months	9	12	18	24	30	36	42	48	54	09
Engine (Non-Emission Related)											
Timing Belt											æ
Water pump											
Exhaust pipe and muffler			-		-		_		-		_
Catalytic converter heat shield (for cars with three way catalytic converter)	ic converter)										
Brakes (Non-Emission Related)											
Front brake pads		_	-		-	_	-	_	-		-
☐ Front brake discs and calipers			-		_		-		-		
☐ Rear brake discs, calipers and pads											
Rear brake drums, wheel cylinders and linings					-				-		
Brake hoses and lines (including Anti-lock brake system 2)			-		-		-		-		-
Parking brake					-				_		
Brake fluid (including Anti-lock brake system 2)					æ				æ		
Anti-lock brake system high pressure hose 2									æ		
Anti-lock brake system operation.2			-		-				-		
Steering, suspension (Non-Emission Related)	-										
Front wheel alignment		-	_				_		-		_
Steering operation, tie rod ends, steering gear box and boots					_				-		
Suspension mounting bolts			-		-		_		-		-
☐ Power steering system			-		-		-		-		-
	, , , , , , , , , , , , , , , , , , , ,										-

Day to day care lengine oil, ATF and coolant level) should be done practically according to the owner's manual by the customer.

☐ Under severe driving conditions, service these items more often.

11 Thereafter, replace every 2 years or 40,000 km (24,000 miles), whichever comes first.

2 For cars with Anti-lock brake system.

Severe Driving Conditions Items with a \square in the chart will need service more often, if you drive in some severe conditions.

The conditions are:

A. Repeated short distance driving.

B. Dusty conditions.
C. Severe cold weather.
D. Areas with road salt or other corrosive materials.
E. Rough or muddy roads.

The services are:

Replace engine oil and oil filter every 5,000 km (3,000 miles) or 3 months under condition A or B.
 Replace the air cleaner element every 20,000 km (12,000 miles) or 12 months for European and Australian types under condition B or E.

Replace the air cleaner every 10,000 km (6,000 miles) or 6 months for other than European and Australian types under condition B or E.

Inspect the front brake discs and calipers every 10,000 km (6,000 miles) or 6 months under condition A, B, D or E.

Inspect the rear brake discs, calipers and pads every 20,000 km (12,000 miles) or 12 months under condition A, B, D or E.

Inspect power steering system every 10,000 km (6,000 miles) or 6 months under condition B, C or E.