

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1989

Manufacturer HONDA MOTOR CO., LTD.	Vehicle Line CIVIC CIVIC CRX CIVIC CRX HF	
Mailing Address No. 1-1, 2chome, Minami-Aoyama, Minato-ku, Tokyo, Japan	Issued AUGUST 1988	Revised

Direct questions concerning these specifications to the manufacturer listed above.

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The General Specifications herein are those in effect at date of compilation and are subject to change without notice or incurring obligation by the manufacturer.



Motor Vehicle Manufacturers Association
of the United States, Inc.

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MVMA Specifications Form

METRIC (U.S. Customary)

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NOTE:

1. This form uses both SI metric units and U.S. Customary units. The metric unit of measure is presented first, and the U.S. Customary unit follows in parentheses.
2. UNLESS OTHERWISE INDICATED:
 - a. Specifications apply to standard models without optional equipment. Significant deviations are noted.
 - b. Nominal design dimensions are used throughout these specifications.
 - c. All linear dimensions are in millimeters (inches), and all mass (weight) specifications are in kilograms (pounds).
3. The General Specifications herein are those in effect at date of compilation and are subject to change without notice or incurring obligation by the manufacturer.
4. Additional Vehicle Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.

METRIC (U.S. Customary)

Vehicle Origin

Design & development(company)	Honda R & D Co., Ltd.
Where built(country)	See below *2,*3 and *4
Authorized U.S. sales marketing representative	American Honda Motor Co., Inc.

Vehicle Models

Model Description & Drive (FWD/RWD/AWD/4WD)	Introduction Date	Car Line Make, Vehicle Models, Series, Body Type (Mfgr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)
CIVIC CRX HF (FWD) *2	OCT. 1988	HONDA, CIVIC CRX HF, 5M *1 COUPE (ED836)	2/0	45 (100)
CIVIC CRX (FWD) *2		HONDA, CIVIC CRX, 5M *1 COUPE (ED835)		
		HONDA, CIVIC CRX, 4A *1 COUPE (ED845)		
CIVIC CRX Si (FWD) *2		HONDA, CIVIC CRX, 5M *1 COUPE (ED936)		
CIVIC 1500 HATCH-BACK *3 (FWD)		HONDA, CIVIC, 4M *1 2DOOR HATCH-BACK (ED634)	2/3	35 (75)
CIVIC 1500 DX *3 HATCH-BACK (FWD)		HONDA, CIVIC, 5M *1 2DOOR HATCH-BACK (ED635)		
		HONDA, CIVIC, 4A *1 2DOOR HATCH-BACK (ED645)		
CIVIC 1600 Si *3 HATCH-BACK (FWD)		HONDA, CIVIC, 5M *1 2DOOR HATCH-BACK (ED736)		
CIVIC 4DOOR SEDAN *4 1500 DX (FWD)		HONDA, CIVIC, 5M *1 4DOOR SEDAN (ED354)		
		HONDA, CIVIC, 4A *1 4DOOR SEDAN (ED364)		
CIVIC 4DOOR SEDAN *4 1500 LX (FWD)	HONDA, CIVIC, 5M *1 4DOOR SEDAN (ED355)			
	HONDA, CIVIC, 4A *1 4DOOR SEDAN (ED365)			
<p>NOTE *1 : Abbreviations of transmission type 5M : 5 speed manual transmission 4M : 4 speed manual transmission 4A : 4 speed automatic transmission *2 : Manufactured by Honda Motor Co., Ltd. in Japan *3 : Manufactured by Honda of Canada Mfg., Inc. in Canada *4 : Manufactured by Honda of America Mfg., Inc. in U.S.A. FWD: Front Wheel Drive RWD: Rear Wheel Drive AWD: All Wheel Drive 4WD: Four Wheel Drive</p>				

METRIC (U.S. Customary)

NOTE

*1 : For 49-S Low Alt. Vehicle

*2 : For 49-S All Alt. Vehicle

*3 : For Calif. Vehicle

Power Teams (Indicate whether standard or optional)

SAE J1349 Net bhp (brake horsepower) and net torque corrected to 77°F/25°C and 29.61 in. Hg/100 kPa atmospheric pressure.

SERIES AVAILABILITY	Code	Displ. Liters (in ³)	E N G I N E				Exhaust S/D *	TRANSMISSION/ TRANSAXLE	AXLE RATIO (std. first)
			Induction (FI, CARB/ FFL, etc.)	Compr. Ratio	SAE Net at RPM				
					Power kW (bhp)	Torque N.m (lb. ft.)			
ED634	D15B1	1.5 (91)	EFI**	9.2	52.2 (70) @ 5500	112.8 (83.2) @ 3000	S	4M	3.89
ED836	D15B6			9.6	46.2 (62) @ 4500	122.6 (90.4) @ 2000		5M	2.95 *1 3.72 *2 3.25 *3
ED835, ED635	D15B2			9.2	68.6 (92) @ 6000	120.7 (89.0) @ 4500			
ED354, ED355									4.06
ED845, ED645,									4A
ED364, ED365								4.21	
ED936, ED736	D16A6	1.6 (97)		9.1 6000	80.5 (108) @ 5000	135.6 (100.0) @	5M	4.25	

* : Single/Dual

**: Electronic Fuel Injection

~~Engine Description/Carb.~~
Engine Code

Car Model Code

D15B1	D15B2	D15B6	D16A6
ED634	ED835, ED635 ED845, ED645	ED354, ED355 ED364, ED365	ED836 ED936 ED736

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.) : Inline, Front, Transverse, SOHC, Hemisphere

Manufacturer	:	*1 or *2		
No. of cylinders	:	4		
Bore	:	75.0 (2.95)		
Stroke	:	84.5 (3.33)		
Bore spacing (C/L to C/L)	:	84.0 (3.31)		90.0(3.543)
Cylinder block material & mass:	:	Aluminum silicon alloy,		
kg (lbs.)(machined)	:	15.6 (34.4)		16.0(35.3)
Cylinder block deck height	:	232 (9.13)		237 (9.33)
Cylinder block length	:	391.5 (15.41)		
Deck clearance (minimum)	:	25 (0.98), Below block		
Cylinder head material & mass :	:	Aluminum silicon alloy		
kg (lbs.)	:	9.8 (21.605)	8.8 (19.4)	9.8 (21.6)
Cylinder head volume (cm ³)	:	38.0	38.2	38.0
Cylinder liner material	:	Cast iron alloy		
Head gasket thickness	:	1.2 ± 0.05 (0.047 ± 0.002)		
(compressed)	:			
Minimum combustion chamber	:			
total volume (cm ³)	:	177.8	169.7	191.6
Cyl. no. system	:			
(front to rear)*	:	L. Bank : Left to right 1-2-3-4		
	:	R. Bank : —		
Firing order	:	1 - 3 - 4 - 2		
Intake manifold material & mass (kg (lbs.))**	:	Aluminium silicon alloy		
	:	2.6 (5.7)	3.6 (7.9)	3.0 (6.6)
Exhaust manifold material & mass (kg (lbs.))**	:	Cast iron alloy		
	:	3.7 (8.2) 5.5 (12.1)	3.1 (6.8)	5.5 (12.1)
Fuel required unleaded, diesel, etc.	:	Unleaded		
Fuel antiknock index $\frac{(R + M)}{2}$:	$\frac{91 + 81}{2} = 86$, not less than 86		
Engine mounts	Number	:	4	
	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)	:	Rubber, Elastomeric	
	Added isolation(sub-frame, crossmember, etc.)	:	Cross beam	
		:		
Total dressed engine mass (wt) dry ***	:	94.2 (207.7)	88.6(195.3)	99.3(218.9)

Engine - Pistons

Material & mass. g	:	Aluminium silicon alloy		
(weight, oz.) - piston only	:	237 (8.359)	230 (8.112)	

Engine - Camshaft

Location	:	In cylinder head		
Material & mass kg	:	Cast iron alloy		
(weight, lbs.)	:	2.41 (5.313)	1.60 (3.53)	2.41 (5.31)
Drive type	:	Chain/belt		
	:	Width/pitch	24/9.525 (0.94/0.375)	

* Rear of engine-drive take off.

View from drive take off end to determine left & right side of engine.

** Finished state.

*** Dressed engine mass(weight)includes the following: Throttle body assembly, IN/EX manifold, ACG.

*1: HONDA MOTOR CO., LTD.

*2: HONDA OF AMERICA MFG., INC.

MVMA Specifications Form

Vehicle Line CIVIC, CIVIC CRX, CIVIC CRX HF

METRIC (U.S. Customary)

Model Year 1989Issued AUG. 1988

Revised(*)

~~Engine Description/Carb~~
Engine Code

D15B1

D15B2

D15B6

D16A6

Engine - Valve System

Hydraulic lifters : N.A.
(std., opt., NA)

Valve	Number	intake/exhaust:	8/8	4/4	8/8
	Head O.D.	intake/exhaust:	29/25		

Engine - Connecting Rods

Material & mass : Drop-forged carbon steel

(kg., (weight, lbs.))* : 0.38 (0.84)

0.36(0.79)

0.43(0.95)

Length (axes a to c) mm : 134

137

Engine - Crankshaft

Material & mass : Drop-forged carbon steel

(kg., (weight, lbs.))* : 9.5 (20.9)

9.3(20.5)

13.8(30.4)

End thrust taken by bearing : 2
(no.)Length & number of main : 20/5
bearingsSeal (material, one, : Front: Fluoric rubber, one piece
two piece design, etc.) : Rear: Fluoric rubber, one piece

Engine - Lubrication System

Normal oil pressure (kPa(psi)) : 245 (35.6) - 441 (64.0) @ 2000
at engine rpmType oil intake : Stationary
(floating, stationary)Oil filter system : Full flow
(full flow, part, other)Capacity of c/case, less : 4.0 (4.2), Less filter-refill 3.5 (3.7)
filter-refill-L (qt.)

Engine - Diesel Information N.A.

Diesel engine manufacturer :

Glow plug, current drain at 0°F:

Injector	Type :
nozzle	Opening pressure : (kPa (psi)) :

Pre-chamber design :

Fuel in-	Manufacturer :
jection pump	Type :

Fuel injection pump drive :

(belt, chain, gear) :

Supplementary vacuum source :
(type) :

Fuel heater (yes/no) :

Water separator, description :
(std., opt.) :

Turbo manufacturer :

Oil cooler-type (oil to engine :
coolant; oil to ambient air) :

Oil filter :

Engine - Intake System

Turbo charger - manufacturer : N.A.

Super charger - manufacturer : N.A.

Charge cooler : N.A.

* Finished State

~~Engine Description/Carb~~
Engine Code

Car Model Code

D15B1	D15B2	D15B6	D16A6
ED634	ED835, ED635, ED354, ED845, ED645, ED364, ED355, ED365	ED836	ED936 ED736

Engine - Cooling System

Coolant recovery system (std., opt., n.a.) : Std.

Coolant fill location (rad., bottle) : Rad.

Radiator cap relief valve pressure (kPa (psi)) : Press.: 88.3 \pm 14.7 (12.8 \pm 2.1) Vac.: below 4.9 (0.7)Circulation thermostat Type (choke, bypass) : Bypass
Starts to open at °C (°F) : 78 \pm 2 (172.4 \pm 3.6)Water pump Type (centrifugal, other) : Centrifugal
GPM 1000 pump rpm : 28.5 @ 5000
Number of pumps : 1
Drive (V-belt, other) : Cogged belt
Bearing type : Ball Bearing
Impeller material : Steel
Housing material : Aluminum silicon alloy

By-pass recirculation (type (inter., ext.)) : External

Cooling system capacity With heater-L (qt.) : 5.0 (5.3) 5.1 (5.4) *1, 5.0 (5.3) *2 5.2 (5.5) 5.4 (5.7)
With air cond.-L (qt.) : N.A.
Opt. equipment (specify-L (qt.)) : N.A.

Water jackets full length of cyl. (yes, no) : Yes

Water all around cylinder (yes, no) : Yes

Water jackets open at head face (yes, no) : Yes

Std., A/C, HD : Std.

Type (cross-flow, etc.) : Down flow

Radiator core Construction (fin & tube mechanical, braze, etc.) : Vertical, tube & Fin

Material, mass (kg (wgt. lbs.)) : Brass 4.81 (10.60) *1, 4.39 (9.68) 5.20 (11.46) *2 4.81 (10.60) 4.15 (9.15)

Width : 568 (22.36) 668 (26.30) 568 (22.36) 668 (26.30)

Height : 325 (12.80)

Thickness : 16 (0.63)

Fins per inch : 11 8 11

Radiator end tank material : Brass

Std., elec., opt. : Elec.

Number of blades & type (flex, solid, material) : 4, Flex, Polypropylene

Diameter & projected width : 280 (11.02), 52 - 110 (2.05 - 4.33)

Ratio (fan to crankshaft rev.) : N.A.

Fan cutout type : N.A.

Fan Drive type (direct, remote) : N.A.

RPM at idle (elec.) : 1960 - 2320

Motor rating (wattage) (elec.) : 69.6 - 88.8

Motor switch (type & location) (elec.) : Thermo switch

Switch point (temp., pressure) (elec.) : 90° \pm 1.5°C (194° \pm 2.7°F)

Fan shroud (material) : Polypropylene

*1: ED835, ED635, ED354, ED355

*2: ED845, ED645, ED364, ED365

~~Engine Description/Carb.~~
Engine Code

D15B1

D15B2

D15B6

D16A6

Engine - Fuel System

(See supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used)

Induction type: carburetor,
fuel injection system, etc. : Fuel injection system

Manufacturer : Honda Motor Co., Ltd.

Carburetor no. of barrels : N.A.

Idle A/F mix. : Approx. 14.7

Point of injection: (no.) : Throttle body (2) Intake manifold port (4)

Fuel injection Constant, pulse flow : Pulse flow

Control (electronic, mech.) : Electronic

System pressure (kPa (psi)) : 250 ± 5 (36.3 ± 0.7)

Idle spd. -rpm (spec. neutral or drive and propane if used) Manual : N.A.

Automatic : N.A.

Intake manifold heat control (exhaust or water thermostat or fixed) : Water, Fixed

Air cleaner type : Paper element

Fuel filter (type/location) : Paper element/Behind engine

Type (elec. or mech.) : Electrical

Location (eng., tank) : Inner of the fuel tank

Pressure range (kPa (psi)) : 441 - 588 (64.0 - 85.3)

Flow rate at regulated pressure (L(gal) / hr @ kPa(psi)) : 85 (22.5) at 250 (36)

Fuel Tank

Capacity (refill L (gallons)) : 45 (11.9) 40 (10.6) 45 (11.9)

Location (describe) : Rear under floor

Attachment : Bolt

Material & Mass : Steel

(kg (weight lbs)) : 10.9 (24.0) *1, 9.2 (20.3) *2

Filler Location & material : LH side rear quarter panel, Carbon steel

pipe Connection to tank : Flexible connecting tube

Fuel line (material) : Steel pipe

Fuel hose (material) : Fluoric rubber

Return line (material) : Steel pipe

Vapor line (material) : Steel pipe

Extended range tank Opt., n.a. : N.A.

Capacity(L(gallons)): N.A.

Location & material : N.A.

Attachment : N.A.

Opt., n.a. : N.A.

Capacity(L(gallons)): N.A.

Location & material : N.A.

Attachment : N.A.

Selector switch or valve : N.A.

Separate fill : N.A.

*1: ED836, ED835, ED845, ED936, ED634, ED635, ED645

*2: ED354, ED364, ED355, ED365

~~Engine Description/Carb.~~
Engine Code

D15B6	D15B1	D16A6	D15B2
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Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other) :		CAT, EGR	CAT	CAT, EGR #1
	Air Injec- tion	Pump or pulse :	N.A.		
		Driven by :	N.A.		
		Air distribution (head, manifold, etc.) :	N.A.		
		Point of entry :	N.A.		
	Exhaust Gas	Type (controlled flow, open orifice, other) :	Controlled flow	N.A.	
		Exhaust source :	Cyl. head port	N.A.	
		Point of exhaust injection (spacer, carburetor, manifold, other) :	Intake Manifold	N.A.	
	Cataly- tic Conver- ter	Type :	Feedback 3-way CAT		
		Number of :	1		
		Location(s) :	Beneath the exhaust manifold	Under floor	
		Volume (L (in ³)) :	Confidential		
		Substrate type :	Confidential		
		Noble metal type :	Confidential		
	Crankcase Emission Control	Noble metal concent- ration(g/cm3) :	Confidential		
Type (ventilates to atmosphere, induction system, other) :		Induction system (PCV)			
Energy source (manifold vacuum, carburetor, other) :		Manifold vacuum			
Discharges (to intake manifold, other) :		Intake manifold			
Evapora- tive Emission Control	Air inlet (breather cap, other) :	Air intake pipe			
	Vapor vented to (crankcase, canister, other) :	Fuel tank : Canister	Carburetor : N.A.		
	Vapor storage provision :	Canister			
Electronic system	Closed loop (yes/no) :	Yes			
	Open loop (yes/no) :	No			

Engine - Exhaust System

Type (single, single with cross-over, dual, other) :	Single		
Muffler no. & type (reverse flow, straight thru, separate resonator) :	1, Reverse flow, Stainless steel		
Material & Mass (kg (weight lbs)) :			
Resonator no. & type :	N.A.		
Exhaust pipe	Branch o.d., wall thickness :	N.A.	
	Main o.d., wall thickness :	38.1 (1.50), 1.5 (0.06)	50.8 (2.00), 1.5 (0.06)
	Material & Mass (kg (weight lbs)) :	Stainless steel pipe	
Inter- mediate pipe	o.d. & wall thickness :	38.3 (1.51), 1.6 (0.06)	42.7 (1.68), 1.6 (0.06)
	Material & Mass (kg (weight lbs)) :	Stainless steel pipe or Carbon steel pipe	
Tail pipe	o.d. & wall thickness :	38.1 (1.50), 1.2 (0.05)	
	Material & Mass (kg (weight lbs)) :	Carbon steel pipe	

*1 : ED845, ED645, ED364, ED365 for California Market

~~Engine Description/Carb.~~
Engine Code

D15B1	D15B6	D16A6	D15B2
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Transmission/Transaxle (Std., Opt., N.A.)

Manual 3-speed (manufacturer/country) :	N.A.
Manual 4-speed (manufacturer/country) :	HONDA/JAPAN
Manual 5-speed (manufacturer/country) :	N.A.
Automatic (manufacturer/country) :	N.A.
Automatic overdrive :	N.A.
(manufacturer/country) :	N.A.

Manual Transmission/Transaxle

Number of forward speeds :	4	5
1st	3.25	
2nd	1.65	1.89
3rd	1.03	1.26
4th	0.82	0.94
5th	N.A.	0.69
Reverse	3.15	0.77
Synchronous meshing (specify gears) :	All forward gears	
Shift lever location :	Floor	
Trans. case mat'l. & mass kg (lbs)* :	Aluminium Silicon alloy, 3.2 (7.1)	
Capacity (L (pt.)) :	1.9 (4.0)	
Lubri- cant	Type recommended :	SE or SF

Clutch (Manual Transmission)

Clutch manufacturer		: FUJI CHEMICAL INDUSTRY			
Clutch type (dry, wet; single, multiple disc)		: Dry, Single			
Linkage (hydraulic, cable, rod, lever, other)		: Cable			
Max. pedal effort (nom. spring load, new) N (lbs)	Depressed	: ———			
	Released	: ———			
Assist (Spring, power/percent, nominal)		: N.A.			
Type pressure plate springs		: Diaphragm			
Total spring load (N (lb.))		: ———			
Clutch facing	Facing mfr. & material coding	: FUJI CHEMICAL INDUSTRY			
	Facing material & construction	: Woven asbestos			
	Reivets per facing	: 16			
	Outside x inside dia. (nominal)	: 190 (7.48), 132 (5.20)	: 200 (7.87), 140 (5.51)	: 190 (7.48), 132 (5.20)	
	Total eff. area (cm ² (in. ²))	: 146 x 2 (22.63 x 2)	: 160 x 2 (24.80 x 2)	: 146 x 2 (22.63 x 2)	
	Thickness (pressure plate side/fly wheel side)	: Min. 3.5 (0.05) / Min. 3.5 (0.05)			
	Revet depth (pressure plate side/fly wheel side)	: 1.3 (0.05) / 1.3 (0.05)			
	Engagement cushion method	: Disk plate spring			
	Release bearing type & method lub.	: Ball bearing, Permanently lubrication			
Torsional damping method, spring, hysteresis		: Damper rubber			

* Includes shift linkage, lubricant, and clutch housing. If other specify.

Engine Description/Carb. Engine Code	D15B2		D15B1 D15B6 D16A6
	ED645, ED845	ED364, ED365	

Automatic Transmission/Transaxle

Trade name	:	Automatic
Type and special features (describe)	:	4-speed automatic transmission with lock-up clutch
Selector	Location	: Floor
	Ltr./No.designation:	6, P-R-N-D4-D3-2
Gear ratios	1st	: 2.71
	2nd	: 1.56
	3rd	: 1.03
	4th	: 0.78 0.70
	Reverse	: 1.95
Max. upshift speed - drive		
range (km/h (mph))		
: 1-2: 55 (34) 2-3: 100 (62)		
: 3-4: 151 (94)		
Max. kickdown speed - drive		
range (km/h (mph))		
: 4-3: 126 (78) 3-2: 92 (57)		
: 2-1: 40 (25)		
Min. overdrive speed		
(km/h (mph))		
: N.A.		
Torque converter	Number of elements	: 3
	Max. ratio as stall:	2.6 to 2.8 at 2600
	Type of cooling	: Air & liquid
	(air, liquid)	: Air & liquid
	Normal diameter	: 245 (9.65)
Lubricant	Capacity (refill L (pt.))	: 2.4 (5.1)
	Type Recommended	: DEXRON II
	Oil cooler (std., opt., NA, internal, external, air liquid)	: Std., External, air & liquid
Transmission case material & mass kg (lbs)**	:	Aluminum silicon alloy

Axle or Front Wheel Drive Unit

Type (front, rear)	:	Front
Description	:	Helical gear
Limited slip differential (type)	:	N.A.
Drive pinion offset	:	N.A.
Drive pinion (type)	:	Straight bevel gear
No. of differential pinions	:	2
Pinion/differential adjustment: (shim, other)	:	Shim
Pinion/differential bearing adjustment (shim, other)	:	N.A.
Driving wheel bearing (type)	:	Ball bearing
Lubricant	Capacity (L (pt.))	:
	Type recommended	: Lubricated by transmission oil
		:

Axle or Transaxle Ratio and Tooth Combinations (See Power Teams for axle ratio usage.)

Axle ratio (or overall top gear ratio)	:	2.95	3.25	3.72	3.93	4.25	3.89	4.06	4.21
No. of teeth	Pinion	: 22	20	18	15	16	18	17	14
	Ring gear or gear	: 65	65	67	59	68	70	69	59
Ring gear o.d.	:	176.3	180.0	184.6	179.8	190.4	187.0	187.7	179.8
Transaxle	Transfer gear ratio:	N.A.							
	Final drive ratio	N.A.							

* Input speed + $\sqrt{\text{torque}}$
** Includes shift linkage, lubricant & clutch housing. If other specify.

~~Engine Description/Carb.~~
Engine Code

D15B6

D15B1

D16A6

D15B2

Axle Shafts - Front Wheel Drive

Manufacturer and number used : HONDA MOTOR, 2

Type (straight, solid bar, tubular, etc.)

Left : Straight, Tublar

Straight, Solid bar

Right : Straight, Solid bar

Outer diam. x length x wall thickness

Manual transaxle

Left : 38.1x685x3.7(1.50x26.97x0.15)

25x681(0.98x26.81)

Right : 21 x 393 (0.83 x 15.47)

25x388(0.98x15.28)

Automatic transaxle

Left : N.A.

25x681(0.98x26.81)

Right : N.A.

25x388(0.98x15.28)

Optional transaxle

Left : N.A.

Right : N.A.

Slip yoke

Type : Inner: Tripod joint slide type
Outer: Birfield double off-set joint slide type

Number of teeth : N.A.

Spline o.d. : N.A.

Universal joints

Make and mfg. no.

Inner : HONDA MOTOR

Outer : HONDA MOTOR

Number used : Inner: 2, Outer: 2

Type, size, plunge

Inner : Constant Velocity joint

Outer : Constant Velocity joint

Attach (u-bolt, clamp, etc.): C-crip

Bear- ing

Type (plain, anti-fric- tion) : Ball bearing, Anti-friction

Lubrication : (fitting, prepack) : Prepack

Drive taken through (torque tube, arms or springs): N.A.

Torque tanken through (torque tube, arms or springs): N.A.

Ø All Wheel/4 Wheel Drive

Description and type (part-time, full-time, 2/4 shift while moving, mechanical, elect., chain/gear, etc.) : N.A.

Manufacturer : N.A.

Transfer case

Type : N.A.

Model : N.A.

Low-range gear ratio : N.A.

System disconnect(describe) : N.A.

center differential

Type(bevel, planeta-ry, W or W/O viscous: N.A.
torsen, etc.) :Torque split : N.A.
(% front/rear) :

* Centerline to centerline of universal joints, or to centerline of attachment.

MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CIVIC, CIVIC CRX, CIVIC CRX HF
Model Year 1989 Issued Aug. 1988 Revised (e)

Body Type And/or

Engine Displacement

Car Model Code

☒ Suspension - General Including Electronic Controls

COUPE		HATCHBACK		SEDAN	
ED836	ED835 ED845 ED936	ED634	ED635 ED645 ED736	ED354 ED364	ED355 ED365

Car leveling	Standard/optional/not avail.	N.A.
	Manual/automatic control	N.A.
	Type (air/hydraulic)	N.A.
	Primary/assist spring	N.A.
	Rear only/4 wheel leveling	N.A.
	Single/dual rate spring	N.A.
	Single/dual ride heights	N.A.
Shock absorber damping controls	Provision for jacking	N.A.
	Standard/option/not avail.	N.A.
	Manual/automatic control	N.A.
	Number of damping rates	N.A.
	Type of actuation (manual/electric motor/air, etc.)	N.A.
	s e n s i t i v e	Lateral acceleration
		Deceleration
		Acceleration
		Road surface
Shock absorber (front & rear)	Type	Telescope, Front:Hydraulic Rear:Nitrogen gas - filled
	Make	SHOWA MFG, TOKIKO
	Piston diameter	Front:25(0.98) Rear:25(0.98)
	Rod diameter	Front:12.5(0.49) Rear:12.5(0.49)

☒ Suspension - Front

NOTE: *1:ED845 *2:ED635 *3:ED354 *4: ED736

Type and description		Independent, Double wishbone with coil spring		
Travel*	Full jounce	57.5(2.26)		
	Full rebound	32.7(1.29)		
Spring	Type (coil, leaf, other) & material	Coil, Spring steel		
	Insulators (type & material)	Mounting, Rubber		
	Size (coil design height & l.d., bar length x dia.)	333x63(13.1x2.5)*1 327x63(12.9x2.5)	333x63(13.1x2.5) 327x63(12.9x2.5)*2 339x63(13.3x2.5)*7	333x63(13.1x2.5)*3 339x63(13.3x2.5)
	Spring rate [N/mm (lb./in.)]	37.2(216.6)	39.2(224.0)	37.2(212.6)
	Rate at wheel [N/mm (lb./in.)]	17.2(98.3)	18.0(102.9)	17.2(98.3)
Stabilizer	Type (link, linkless, frameless)	Linkless		
	Material & bar diameter	Spring steel		
		17.3(0.6)	18(0.7)	19(0.7)

☒ Suspension - Rear

Type and description		Independent, Double wishbone with coil spring			
Travel*	Full jounce	54.6(2.15)	52.8(2.08)		
	Full rebound	90.6(3.57)	95.2(3.75)		
Spring	Type (coil, leaf, other) & material		Coil, Spring steel		
	Size (length x width, coil design height & i.d., bar length & dia.) : mm		238x65.8 75.9 *5 238x64.8 76.5 *6	238x64.6 76.3	238x64.2 76.9 *7 238x63.8 76.5 *8
	Spring rate [N/mm (lb./in.)]		20.6(117.7)	19.6(112.0) 29.4(168.0)	21.6(123.4) 34.3(196.0)
	Rate at wheel [N/mm (lb./in.)]		12.6(72.0)	12.0(68.6) 33.2(189.7)	13.2(75.4) 21.0(120.0)
	Insulators (type & material)		Mounting, Rubber		
	# leaf	No. of leaves	N.A.		
		Shackle (comp. or tens.)	N.A.		
Stabilizer	Type (link, linkless, frameless)		Link	N.A.	
	Material & bar diameter		Spring steel, 15(0.6) *9		
Track bar (type)		-			

* Define load condition:

NOTE

*5:ED836 ED936

*6:ED835,ED845

*7:ED354 ED364

*8:ED355,ED365

*9:ED936,ED736

MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CIVIC, CIVIC CRX, CIVIC CRX HF
Model Year 1989 Issued AUG. 1988 Revised (•) _____

Body Type And/Or
Engine Displacement
Car Model Code

COUPE	ED835, ED845	HATCHBACK
ED836	ED936	SEDAN

Brakes - Service

Description		Split service brake	
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)	NISSIN, Disk	AKEBONO, Disk
	Rear (disc or drum)	NISSIN, Drum	
Valving type (proportion, delay, metering, other)		Proportion	
Power brake (std., opt., n.a.)		N.A.	
Booster type (remote, integral, vac., hyd., etc.)		Vac.	
Vacuum	Source (inline, pump, etc.)	Inline	
	Reservoir (volume in.³) and source	N.A.	
	Pump-type (elec. gear driven, belt driven)	N.A.	
Traction control	Operational speed range	N.A.	
	Type engine intervention (electronic, mech.)	N.A.	
Anti-lock device	Front/rear (std., opt., n.a.)	N.A.	
	Manufacturer	N.A.	
	Type (electronic, mech.)	N.A.	
	Number sensors or circuits	N.A.	
	Number anti-lock hydraulic circuits	N.A.	
	Integral or add-on system	N.A.	
	Yaw control (yes, no)	N.A.	
Hydraulic power source (elect., vac. mtr., pwr. strg.)		N.A. (31.12)	
Effective area [cm²(in.²)]*		Fr:139.2(21.58)Rr:200.8(31.12)	Fr:176.4(27.34)Rr:200.8
Gross lining area [cm²(in.²)]**(F/R)		139.2(21.58)/200.8(31.12)	181.3(28.1)/200.8(31.12)
Swept area [cm²(in.²)]*** (F/R)		953.2(147.7)/315.3(48.87)	1133(175.6)/315.3(48.87)
Rotor	Outerworking diameter	F/R 231(9.09)	242(9.53)
	Inner working diameter	F/R 144(5.66)	
	Thickness	F/R 17(0.67)	19(0.75)
	Material & type (vented/solid)	F/R Cast iron, Vented	
Drum	Diameter & width	F/R 180(7.09), 38.5(1.5)	
	Type and material	F/R Solid, Cast iron	
Wheel cylinder bore		Fr:51.1(2.01)Rr:19.05(0.75)	Fr:50.8(2.0)Rr:19.05(0.75)
Master cylinder	Bore/stroke	F/R 20.64(0.81)/30.0(1.18)	
Pedal arc ratio		4.2	
Line pressure at 445 N(100 lb.) pedal load [kPa (psi)]		9985(1448)	11333(1643)
Lining clearance		F/R Fr:0, Rr:MAX. 0.7(0.03)	
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)	Bonded
		Rivet size	N.A.
		Manufacturer	NISSIN AKEBONO
		Lining code*****	NBK 327 FE AK V3022 or AK S413 GG
		Material	Resin-mold
		Size Primary or out-board	108x34x10(4.25x1.34x0.39) 119x36x10(4.69x1.42x0.39)
		Size Secondary or in-board	108x34x10(4.25x1.34x0.39) 119x36x10(4.69x1.42x0.39)
	Rear wheel	Shoe thickness (no lining)	5.0(0.2)
		Bonded or riveted (rivets/seg.)	Bonded
		Manufacturer	NISSIN
		Lining code*****	JB J87FE
		Material	Resin-mold
		Size Primary or out-board	167.3x30x4.5(6.59x1.18x0.18)
		Size Secondary or in-board	167.3x30x4.5(6.59x1.18x0.18)
Shoe thickness (no lining)		1.6(0.06)	

*Excludes rivet holes, grooves, chamfers, etc.

**Includes rivet holes, grooves, chamfers, etc.

***Total swept area for four brakes. (Drum brake: Widest lining contact width for each brake x its contact circumference.)
(Disc brake: Square of Outer Working Dia. minus Square of inner Working Dia. multiplied by Pi/2 for each brake.)

****Size for drum brakes includes length x width x thickness.

*****Manufacturer I.D., catalog or formulation designation and coefficient of friction classification.

Body Type ~~And/Or~~
~~Engine Displacement~~
 Car Model Code

COUPE		
ED836	ED835, ED845	ED936

Tire and Wheels (Standard)

Tires	Size (load range, ply) :		P165/70R13	P175/70R13	185/60R14 82H
	Type (bias, radial, etc.) :		Radial		
	Inflation pressure (cold) for recommended max. vehicle load	Front (kPa (psi)) :	240 (35)	220 (32)	195 (28)
		Rear (kPa (psi)) :	220 (32)	220 (32)	195 (28)
	Rev./mile-at 70 km/h (45 mph) :		924	902	908
Wheels	Type & material :		Disk, steel		Aluminium wheel, Aluminium alloys
	Rim (size & flange type) :		4 1/2J x 13	5J x 13	5J x 14
	Wheel offset :		45 (1.8)		
	Attachment	Type (bolt or stud) :	Stud		
		Circle diameter :	100 (3.9)		
		Number & size :	4, M12 x 1.5P (0.47 x 0.06)		
Spare	Tire and wheel :		T105/80D13, 4T x 13		
	Storage position & location (describe) :		Luggage compartment		

Tires and Wheels (Optional) N.A.

Tire size (load range, ply) :	
Type (bias, radial, steel, nylon, etc.) :	
Wheel (type & material) :	
Rim (size, flange type and offset) :	
Tire size (load range, ply) :	
Type (bias, radial, steel, nylon, etc.) :	
Wheel (type & material) :	
Rim (size, flange type and offset) :	
Tire size (load range, ply) :	
Type (bias, radial, steel, nylon, etc.) :	
Wheel (type & material) :	
Rim (size, flange type and offset) :	
Tire size (load range, ply) :	
Type (bias, radial, steel, nylon, etc.) :	
Wheel (type & material) :	
Rim (size, flange type and offset) :	
Spare tire and wheel :	
(If configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position) :	

Brakes - Parking

Type of control :		Hand operated lever
Location of control :		Floor
Operates on :		Rear wheels
If separate from service brakes	Type (internal or external) :	N.A.
	Drum diameter :	N.A.
	Lining size (length x width x thickness) :	N.A.

Body Type ~~And/Or~~
~~Engine Displacement~~
 Car Model Code

HATCHBACK		SEDAN	
ED634	ED736	ED635, ED645	ED354, ED364 ED355, ED365

Tire and Wheels (Standard)

Tires	Size (load range, ply) :		P165/70R13		185/60R14 82H		P175/70R13		175/70SR13		
	Type (bias, radial, etc.) :		Radial								
	Inflation pressure (cold) for recommended max. vehicle load	Front (kPa (psi)) :	240 (35)		195 (28)		220 (32)		180 (26)		
		Rear (kPa (psi)) :	220 (32)		195 (28)		220 (32)		180 (26)		
	Rev./mile-at 70 km/h (45 mph) :		924		908		902		911		
Wheels	Type & material :		Disk, Steel								
	Rim (size & flange type) :		4 1/2J x 13		5J x 14		5J x 13				
	Wheel offset :		45 (1.8)								
	Attachment	Type (bolt or stud) :	Stud								
		Circle diameter :	100 (3.9)								
		Number & size :	4, M12 x 1.5P (0.47 x 0.06)								
Spare	Tire and wheel (same, if other describe) :		T105/80D13, 4T x 13								
	Storage position & location (describe) :		Luggage compartment								

Tires and Wheels (Optional) N.A.

Tire size (load range, ply)	:	
Type (bias, radial, steel, nylon, etc.)	:	
Wheel (type & material)	:	
Rim (size, flange type and offset)	:	
Tire size (load range, ply)	:	
Type (bias, radial, steel, nylon, etc.)	:	
Wheel (type & material)	:	
Rim (size, flange type and offset)	:	
Tire size (load range, ply)	:	
Type (bias, radial, steel, nylon, etc.)	:	
Wheel (type & material)	:	
Rim (size, flange type and offset)	:	
Tire size (load range, ply)	:	
Type (bias, radial, steel, nylon, etc.)	:	
Wheel (type & material)	:	
Rim (size, flange type and offset)	:	
Spare tire and wheel	:	
(If configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)	:	

Brakes - Parking

Type of control		:	Hand operated lever
Location of control		:	Floor
Operates on		:	Rear wheels
If separate from service brakes	Type (internal or external)	:	N.A.
	Drum diameter	:	N.A.
	Lining size (length : x width x thickness):	:	N.A.

Body Type ~~And/or~~
~~Engine Displacement~~
 Car Model Code

COUPE			HATCHBACK			SEDAN		
ED836	ED835 ED845	ED936	ED634	ED635 ED736	ED645	ED354	ED364	ED355 ED365

Steering

Manual (std., opt., n.a.)				:	Std.			N.A.	Std.	N.A.
Power (std., opt., n.a.)				:	N.A.			Std.	N.A.	Std.
Adjustable steering wheel/columne (tilt, telescope other)		Type	:	N.A.	Tilt	N.A.	Tilt	N.A.	Tilt	
		Manufacturer	:	N.A.	HONDA	N.A.	HONDA	N.A.	HONDA	
		(Std., opt., n.a.)	:	N.A.	Std.	N.A.	Std.	N.A.	Std.	
Wheel diameter** (W9) SAE J1100		Manual	:	370(14.6): ED835,ED845,ED936,ED736 377(14.8): Others					N.A.	
		Power	:	N.A.					370 (14.6)	
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	:	9.88 (32.39)		10.49 (34.39)				
		Curb to curb (l. & r.)	:	9.27 (30.39)		9.87 (32.36)				
	Inside rear	Wall to wall (l. & r.)	:	4.69 (15.38)		5.17 (16.95)		5.16 (16.92)		
		Curb to curb (l. & r.)	:	4.72 (15.48)		5.20 (17.05)				
Scrub Radius*				:	8.5 (0.33)					
Manual	Gear	Type	:	Rack and Pinion				N.A.	Pack & Pinion	N.A.
		Manufacturer	:	YAMADA MFG.				N.A.	YAMADA MFG	N.A.
		Ratios	Gear	:	∞				N.A.	
			Overall	:	18.6	19.8	18.6	N.A.	18.6	N.A.
		No. wheel turns (stop to stop)	:	3.87	4.11	3.87	N.A.	3.87	N.A.	
Power	Type (coaxial, elec., hyd., etc.)		:	N.A.				N.A.	Coaxial	N.A.
	Manufacturer		:	N.A.				SEIKI GIKEN	SEIKI GIKEN	
	Gear	Type	:	N.A.				Pack & Pinion		Pack & Pinion
		Ratios	Gear	:	N.A.				N.A.	
		Overall		:	N.A.				17.7	17.7
	Pump (drive)		:	N.A.				V. Belt	V. Belt	
	No. wheel turns (stop to stop)		:	N.A.				3.65	3.65	
Linkage	Type		:	—						
	Location (front or rear of wheels, other)		:	Rear of front wheel						
	Tie rods (one or two)		:	Two						
Steering axis	Inclination at camber (deg.)		:	Camber: 0°, King pin angle: 7° 34'						
	Bearings (type)	Upper	:	Ball joint						
		Lower	:	Ball joint						
		Thrust	:	N.A.						
Steering spindle & joint type				:	Ball joint					
Wheel spindle/hub	Diameter	Inner bearing	:	38 (1.5)						
		Outer bearing	:	38 (1.5)						
	Thread (size)		:	M22 x P1.5						
	Bearing (type)		:	Ball bearing						

* The horizontal distance in the front elevation between wheel centerline and kingpin (ball joint) axis at ground.

** See Page 22.

Body Type ~~And/or~~
~~Engine Displacement~~
 Car Model Code
 Wheel Alignment

COUPE	HATCHBACK	SEDAN
ED836, ED835 ED845, ED936	ED634, ED635 ED645, ED736	ED354, ED364 ED355, ED365

Front wheel at curb mass (wt.)	Service Checking	Caster (deg.) :	$2^{\circ}59' \pm 1^{\circ}$
		Camber (deg.) :	$0^{\circ} \pm 1^{\circ}$
		Toe-in (outside: track-mm (in.)):	$0 \pm 3 (0 \pm 0.12)$
	Service reset*	Caster :	Pre-set
		Camber :	Pre-set
		Toe-in :	Adjustable
Rear wheel at curb mass (wt.)	Periodic M.V. inspection	Caster :	—
		Camber :	—
		Toe-in :	—
	Service Checking	Camber (deg.) :	$-0^{\circ}26' \pm 1^{\circ}$
		Toe-in (outside: track-mm (in.)):	$2 \pm 2 (0.08 \pm 0.08)$
		Toe-in :	Pre-set
	Service reset*	Camber :	Pre-set
		Toe-in :	Pre-set
		Toe-in :	Pre-set
	Periodic M.V. inspection	Camber :	—
		Toe-in :	—
		Toe-in :	—

* Indicates pre-set, adjustable, trend set or other.

Electrical - Instruments and Equipment

Speedometer	Type (analog, digital, std., opt.) :	Magnetic torque drive		
	Trip odometer (std., opt., n.a.) :	Std.		
	ECR maintenance indicator :	N.A.		
Charge indicator	Type :	Voltage regulator		
	Warning device (light, audible) :	Light		
	Temperature indicator :	Electric thermal gauge		
Oil pressure indicator	Warning device (light, audible) :	N.A.		
	Type :	Electric pressure switch		
	Warning device (light, audible) :	Light		
Fuel indicator	Type :	Electric gauge		
	Warning device (light, audible) :	N.A.		
	Type (standard) :	Electric *1		
Windshield wiper	Type (optional) :	N.A.		
	Blade length :	500 (19.69): Driver side, 475 (18.70): Assist side		
	Swept area (cm ² (in. ²)) :	6889 (1068)	6728 (1043)	7068 (1096)
Windshield washer	Type (standard) :	Electric power pump		
	Type (optional) :	N.A.		
	Fluid level indicator (light, audible) :	N.A.		
Rear window wiper, wiper/washer (std., opt., n.a.)	Type :	Std. for only ED936, ED635, ED645, ED736, ED835, ED845		
	Type :	Electric vibrator		
	Number used :	1: ED836, ED634 2: Others		
Other	:	Shift indicator (ED836), Tail gate open warning lamp,		
	:	Brake failure warning lamp, Seat belt warning buzzer & warning		
	:	lamp, Door open warning buzzer & warning lamp, Head light		
	:	high-beam indicator, Engine failure warning lamp		
	:			
	:			

*1 ED634, ED354, ED364: 2 stage speed

Others: 3 stage speed included "INT" position

~~Engine Description/Code~~
Engine Code

D15B6	D15B1	D16A6	D15B2
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Electrical - Supply System

Battery	Manufactuere	:	YUASA, FURUKAWA, MATSUSHITA or JOHNSON CONTROLS		
	Model, std., (opt.)	:	55B24R(S)-MF		
	Voltage	:	12		
	Amps at 0°F cold crank	:	410		405
	Minutes-reserve capacity	:	70		
	Amp/hrs. - 20 hr. rate	:	47		42
	Location	:	Right side in engine compartment		
Alter-nator	Manufactuere	:	NIPPON DENSO OR MITSUBISHI		
	Rating (idle/max. rpm)	:	12V-60A	12V-65A	
	Ratio (alt. crank/rev.)	:	2.9	2.6	
	Output at idle (rpm, park)	:	Min. 40A		
	Optional (type & rating)	:	N.A.		
Regulator	Type	:	IC regulator, Voltage control		

Electrical - Starting System

Start, motor	Current drain at 0°F	:	0		
Motor drive	Engagement type	:	Magnetic		
	Pinion engages from (front, rear)	:	Right side		

Electrical - Ignition System

Type	Electronic (std., opt., n.a.)	:	Std.				
	Other (specify)	:	N.A.				
	Make	:	TOYO DENSO				
Coil	Model	:	TC-05A				
	Current	Engine stopped	:	0			
		- A	:				
		Engine idling	:	4			
		- A	:				
Spark plug	Make	:	NGK, Nippondenso				
	Model	:	BCPR5E-11, BCPR5EY-N11, Q16PR-U11		BCPR6E-11, BCPR6EY-N11, Q20PR-U11, RC9YCN4		
	Thread (mm)	:	14				
	Tightening torque (N.m (lb. ft))	:	17.65 (13.02)				
	Gap	:	1.1 ^{+ 0} _{- 0.1} (0.043 ^{+ 0} _{- 0.004})				
		:					
	Number per cylinder	:	1				
Distributor	Make	:	TOYO DENSO				
	Model	:	TD-02U	TD-01U	TD-02U	TD-01U	

Electrical - Suppression

Locations & type	:	N.A.			
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Body Type

COUPE	HATCHBACK	SEDAN
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Body

Structure

: Monocoque construction

Ø Bumper system
front - rear

: Plastic bumper with energy - absorbing plastic form

Anti-corrosion treatment

: P.V.C. coating : Under of the vehicle
: Chipping primer: Hood, roof, fender, front pillar and side sill
: Rust proof WAX : Doors, hood, tail gate and other hollow structures

Ø Body - Miscellaneous Information

Type of finish
(lacquer, enamel, other)

: Acrylic baking

Hood

Material & mass kg(lb)	: Iron-zinc alloy coated steel	11.6(25.6)	11.7(25.8)
Hinge location (front, rear)	: Rear		
Type (counter balance, prop)	: Prop		
Release control (internal, external)	: Internal		

Trunk lid

Material & mass kg(lb)	: N.A.		
Type (counter balance, prop)	: N.A.	Iron-zinc alloy coated steel	10.0(22.0)
Internal release control (elec., mech., n.a.)	: N.A.	Mech.	

Hatch-back lid

Material & mass kg(lb)	: Iron-zinc alloy coated steel	6.5(14.3)	6.3(13.9)	N.A.
Type (counter balance, prop)	: Damper stay			N.A.
Internal release control (elec., mech., n.a.)	: Mech.			N.A.

Tailgate

Material & mass kg(lb)	: N.A.
Type (drop, lift, door)	: N.A.
Internal release control (elec., mech., n.a.)	: N.A.

Vent window control
(crank, friction, pivot, power)

Front	: N.A.		
Rear	: N.A.	Pivot	N.A.

Window regulator(cable, tape, flex, drive, etc)

Front	: Flex
Rear	: Flex

Seat cushion type
(e.g., 60/40 bucket, bench, wire, foam etc.)

Front	: Bucket, Wire & Urethane form
Rear	: N.A. Bench, Urethane form
3rd seat	: N.A.

Seat back type
(e.g., 60/40 bucket, bench, wire foam etc.)

Front	: Bucket, Wire & Urethane form
Rear	: N.A. Bench, Urethane form
3rd seat	: N.A.

MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CIVIC, CIVIC CRX, CIVIC CRX HF
 Model Year 1989 Issued AUG. 1988 Revised (*)

Body Type

C O U P E

Restraint System

Seating Position			Left	Center	Right
Active	Type & description (lap & shoulder belt, lap belt, etc.)	First seat	Lap & shoulder belt *1	N.A.	Lap & shoulder belt *1
	Standard/optional	Second seat	N.A.	N.A.	N.A.
		Third seat	N.A.	N.A.	N.A.
Passive	Type & description (air bag, motorized - 2-point belt, fixed belt, knee bolster, manual - lap belt)	First seat	3-point belt *2	N.A.	3-point belt *2
	Standard/optional	Second seat	N.A.	N.A.	N.A.
		Third seat	N.A.	N.A.	N.A.

Glass	SAE Ref. No.	*1: ED836 *2: ED835, ED845, ED936
Windshield glass exposed surface area [cm ² (in. ²)]	S1	8967(1390)
Side glass exposed surface area [cm ² (in. ²)] - total 2-sides	S2	8992(1394)
Backlight glass exposed surface area [cm ² (in. ²)]	S3	7258(1125)
Total glass exposed surface area [cm ² (in. ²)]	S4	20757(3217)
Windshield glass (type)		Laminated safety glass
Side glass (type)		Tempered reinforced glass
Backlight glass (type)		Tempered reinforced glass

Lamps and Headlamp Locations

Headlamps	Description - sealed beam, halogen, replaceable bulb, etc.	Semi-sealed beam, Halogen, Replaceable bulb
	Shape	Trapezoid (Aerodynamic design)
	Lo-beam type (2A1, 2B1, 2C1, etc.)	HB4
	Quantity	2
	Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.)	HB3
	Quantity	2

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	Unitized frame
---	----------------

MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CIVIC, CIVIC CRX, CIVIC CRX HF
 Model Year 1989 Issued AUG. 1988 Revised (●) _____

Body Type

H A T C H B A C K

Restraint System

Seating Position			Left	Center	Right
Active	Type & description (lap & shoulder belt, lap belt, etc.) Standard / optional	First seat	Lap & shoulder belt	N.A.	Lap & shoulder belt
		Second seat	Lap & shoulder belt	Lap belt	Lap & shoulder belt
		Third seat	N.A.	N.A.	N.A.
Passive	Type & description (air bag, motorized - 2-point belt, fixed belt, knee bolster, manual - lap belt) Standard / optional	First seat	N.A.	N.A.	N.A.
		Second seat	N.A.	N.A.	N.A.
		Third seat	N.A.	N.A.	N.A.

Glass	SAE Ref. No.	
Windshield glass exposed surface area (cm ² (in. ²))	S1	9635(1493)
Side glass exposed surface area (cm ² (in. ²)) - total 2-sides	S2	13308(2062)
Backlight glass exposed surface area (cm ² (in. ²))	S3	5238(812)
Total glass exposed surface area (cm ² (in. ²))	S4	21527(3336)
Windshield glass (type)		Laminated safety glass
Side glass (type)		Tempered reinforced glass
Backlight glass (type)		Tempered reinforced glass

Lamps and Headlamp Locations

Headlamps	Description - sealed beam, halogen, replaceable bulb, etc.	Semi-sealed beam, Halogen, Replaceable bulb
	Shape	Trapezoid (Aerodynamic design)
	Lo-beam type (2A1, 2B1, 2C1, etc.)	HB4
	Quantity	2
	Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.)	HB3
	Quantity	2

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	Unitized frame
---	----------------

MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CIVIC, CIVIC CRX, CIVIC CRX HF
 Model Year 1989 Issued AUG. 1988 Revised (•) _____

Body Type

S E D A N

Restraint System

Seating Position			Left	Center	Right
Active	Type & description (lap & shoulder belt, lap belt, etc.)	First seat	Lap & shoulder belt	N.A.	Lap & shoulder belt
		Second seat	Lap & shoulder belt	Lap belt	Lap & shoulder belt
	Standard/optional	Third seat	N.A.	N.A.	N.A.
Passive	Type & description (air bag, motorized - 2-point belt, fixed belt, knee bolster, manual - lap belt)	First seat	N.A.	N.A.	N.A.
		Second seat	N.A.	N.A.	N.A.
	Standard/optional	Third seat	N.A.	N.A.	N.A.

Glass	SAE Ref. No.	
Windshield glass exposed surface area [cm ² (in. ²)]	S1	9558(1481)
Side glass exposed surface area [cm ² (in. ²)] - total 2-sides	S2	11020(1708)
Backlight glass exposed surface area [cm ² (in. ²)]	S3	6487(1004)
Total glass exposed surface area [cm ² (in. ²)]	S4	21546(3339)
Windshield glass (type)		Laminated safety glass
Side glass (type)		Tempered reinforced glass
Backlight glass (type)		Tempered reinforced glass

Lamps and Headlamp Locations

Headlamps	Description - sealed beam, halogen, replaceable bulb, etc.	Semi-sealed beam, Halogen, Replaceable bulb
	Shape	Trapezoid (Aerodynamic design)
	Lo-beam type (2A1, 2B1, 2C1, etc.)	HB4
	Quantity	2
	Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.)	HB3
	Quantity	2

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	Unitized frame
---	----------------

MVMA Specifications Form
METRIC (U.S. Customary)

Vehicle Line CIVIC, CIVIC CRX, CIVIC CRX HF
Model Year 1989 Issued AUG. 1988 Revised(') _____

Body Type
Car Model Code

COUPE			HATCHBACK		SEDAN	
ED836	ED835 ED845	ED936	ED634	ED635 ED645 ED736	ED354 ED364	ED355 ED365

Convenience Equipment (standard, optional, n.a.)

Air conditioning		:	Option (manual)										
(manual, auto, temp control)		:											
Clock (digital, analog)		:	Digital, Std.: ED835,ED845,ED936,ED355,ED365,ED736 Option: Others										
Compass/thermometer		:	N.A.										
Console (floor, overhead)		:	Floor										
Defroster, elec. backlight		:	Std.										
Elec- tronic	Diagnostic monitor (integrated, individual)	:	N.A.										
	Instrument cluster (list instruments)	:	N.A.										
	Keyless entry	:	N.A.										
	Tripfinder (avg, spd., fuel)	:	N.A.										
	Voice alert (list items)	:	N.A.										
	Other	:	N.A.										
		:											
Fuel door lock (remote, key, electric)		:	Remote type										
Lamps	Auto head on/off delay, dimming	:	N.A.										
	Cornering	:	N.A.										
	Courtesy (map. reading)	:	N.A.										
	Door lock, ignition	:	N.A.										
	Engine compartment	:	N.A.										
	Fog	:	N.A.										
	Glove compartment	:	N.A.										
	Trunk	:	Std.		N.A.		Std.						
Ø	Illuminated entry system (List lamps, activation)	:	N.A.										
	Other	:	N.A.										
		:											
Mirrors	Day night (auto. man.)	:	Std. (Man.)										
	L.H. (remote, power, heated)	:	Std. (Power: ED355, ED365 Remote: Others)										
	R.H. (convex, remote, power heated)	:	*1	Std., Convex, Remote		Option, Convex, Remote		Std., Convex, Power					
	Visor vanity (RH/LH, illuminated)	:	N.A.		Std., RH		N.A.		Std.,*2 RH		N.A.		Std., RH
Navigation system (describe)		:	N.A.										
Parking brake-auto release (warning light)		:											

*1: Option, Convex, Remote *2: Only for ED736

Body Type

Car Model Code

COUPE			HATCHBACK			SEDAN	
ED836	ED835 ED845	ED936	ED634	ED635 ED645 ED736	ED354 ED364	ED355 ED365	

Convenience Equipment (standard, optional, n.a.)

Power Equipment	Deck lid (release, pull down) :		N.A.				
	Door locks (manual, automatic, describe system) :		Manual				Std. Motorized
	Seats	2 - 4 - 8 way, etc. :	N.A.				
		Reclining(R.H.,L.H.):	N.A.				
		Memory(R.H.,L.H., preset, recline) :	N.A.				
		Lumber, hip, thigh, support :	N.A.				
		Heated(R.H.,L.H., other) :	N.A.				
		:					
	Side windows :		N.A.				Std.
	Vent windows :		N.A.				
	Rear window :		N.A.				
Radio systems	Antenna (location, whip. W/ shield, power) :		Option (Front L.H. corner of roof, Whip type)				
	Standard	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.:	N.A.				
	Optional		AM, FM, stereo, tape				
	Speaker (number, location) :		Option				
	Roof open air fixed (flip-up, sliding, "T") :		N.A.	Std., Sliding	N.A.	Std.,*1 Sliding	N.A.
Speed control device :		N.A.					
Speed warning device (light, buzzer, etc.) :		N.A.					
Tachometer (rpm) :		Std.	N.A.	Std.*1	N.A.	Std.	
Telephone system - mobile :		N.A.					
Theft protection - type :		Steering lock					

*1: Only for ED736

METRIC (U.S. Customary)

Vehicle Dimensions

See Key Sheets for definitions

All dimensions to ground are for comparative purposes only.

Dimensions are to be shown for all base body models of each vehicle line.

SAE Ref. no. refers to the definition published in SAE Recommended Practice J1100 "Motor Vehicle Dimensions." unless otherwise specified.

Body Type	SAE Ref. No.	COUPE	HATCHBACK	SEDAN
Width				
Tread (front)	W101	1450 (57.1)		
Tread (rear)	W102	1456 (57.3)		
Vehicle width	W103	1669 (65.7)	1665 (65.6)	1674 (65.9)
Body width at Sg RP (front)	W117	1648 (64.9)	1660 (65.3)	1670 (65.7)
Vehicle width (front doors open)	W120	3693 (145.4)	3699 (145.6)	3367 (132.6)
Vehicle width (rear doors open)	W121	N.A.		3275 (128.9)
Front fender overall width	W106	1635 (64.4)	1654 (65.1)	1662 (65.4)
Rear fender overall width	W107	1664 (65.5)	1665 (65.6)	1673 (65.9)
Tumble-home (deg.)	W122	33°58'	30°38'	23°07'
Vehicle width including mirrors		1769(69.6), 1860(73.2)*1	1774(69.8), 1862(73.3)*2	1786(70.3), 1883(74.1)*3
Length				
Wheelbase	L101	2300 (90.6)	2500 (98.4)	
Vehicle length	L103	3754 (147.8)	3964 (156.1)	4232 (166.6)
Overhang (front)	L104	764 (30.1)	770 (30.3)	
Overhang (rear)	L105	690 (27.2)	694 (27.3)	962 (37.9)
Upper structure length	L123	2480 (97.6)	2778 (109.4)	2598 (102.3)
Rear wheel C/L "X" coordinate	L127	2300 (90.6)	2500 (98.4)	
Cowl point "X" coordinate	L125	292 (11.5)		
Front end length at centerline	L126	945 (37.2)	972 (38.3)	982 (38.7)
Rear end length at centerline	L129	218 (8.58)	41 (1.6)	574 (22.6)
Height* (At curb mass wt.)				
Passenger distribution (front, rear)	PD1,2,3	2/0	2/3	
Trunk cargo load		45 (100)		35 (77)
Vehicle height	H101	1272 (50.1)	1333 (52.5)	1360 (53.5)
Cowl point to ground	H114	828 (32.6)		
Deck point to ground	H138	948 (37.3)	885 (34.8)	956 (37.6)
Rocker panel - front to ground	H112	130 (5.1)		
Bottom of door closed - front to grd.	H133	245 (9.6)	243 (9.6)	241 (9.5)
Rocker panel - rear to ground	H111	137 (5.4)		
Bottom of door closed - rear to grd.	H135	N.A.		245 (9.6)
Windshield slope angle	H122	63°13'	61°21'	58°38'
Backlight slope angle	H121	77°22'	41°02'	52°23'
Ground Clearance*				
Front bumper to ground	H102	175 (6.9)		
Rear bumper to ground	H104	246 (9.7)	250 (9.8)	236 (9.3)
Bumper to ground (front at curb mass (wt.))	H103	197 (7.8)		
Bumper to ground (rear at curb mass (wt.))	H105	311 (12.2)	313 (12.3)	301 (11.9)
Angle of approach (degrees)	H106	18°39'	18°20'	
Angle of departure (degrees)	H107	27°37'	28°44'	21°38'
Ramp breakover angle (degrees)	H147	14°52'	13°41'	
Axle differential to ground (front/rear)	H153	155 (6.10), (Front)		
Min. running ground clearance	H156	120 (4.72)		
Location of min. run grd. clear			Splash guard	

* All vehicle height and ground clearance are measured at the Manufacturer's Design Load Weight.

Manufacturer's Design Load Weight is defined with indicated passenger distribution and trunk/cargo load unless otherwise specified.

All linear dimensions are in millimeters (inches) unless otherwise noted.

*1: Only for ED936 *2: Only for ED736 *3: Only for ED355, ED365

Body Type Car Model Code	SAE Ref. No.	COUPE		HATCHBACK	SEDAN	
		ED836	ED835 ED845	ED634, ED635 ED645, ED736	ED354 ED364	ED355 ED365
Front Compartment						
SgRP front. "X" coordinate	L31	1395 (54.9)		1350 (53.1)	1345 (53.0)	
Effective head room	H61	940(37.0)	932 (36.7)	971 (38.2)	977 (38.5)	
Max. eff. leg room (accelerator)	L34	1138 (40.8)		1100 (43.3)	1094 (43.1)	
SgRP to heel point	H30	178 (7.0)		205 (8.1)	225 (8.9)	
SgRP to heel point	L53	803 (31.6)		778 (30.6)	785 (30.6)	
Back angle	L40	25°				
Hip angle	L42	101°30'		97°00'	99°00'	
Knee angle	L44	146°00'		132°30'	134°00'	
Foot angle	L46	123°06'		109°12'	106°48'	
Design H-point front travel	L17	179 (7.0)				
Normal driving & riding seat track trvl.	L23	209 (8.2)		179 (7.0)		
Shoulder room	W3	1360 (53.5)			1359 (53.5)	
Hip room	W5	1394 (54.9)		1274 (50.2) *1, 1390 (54.7)	1288 (50.7)	
Upper body opening to ground	H50	1248(49.1)	1238(48.7)	1289 (50.7)	1320 (52.0)	
Steering wheel maximum diameter*	W9	377 (14.8) *2, 370 (14.6)		377 (14.8) *3 370 (14.8)	377(14.8)	370(14.6)
Steering wheel angle	H18	21°40'		23°16'	24°31'	
Accel. heel pt. to steer. whl. cntr	L11	341 (13.4)		353 (13.9)	358 (14.1)	
Accel. heel pt. to steer. whl. cntr	H17	562 (22.1)		575 (22.6)	587 (23.1)	
Steering wheel to C/L of thigh	H13	107 (4.2)		73 (2.9)	85 (3.3)	
Steering wheel torso clearance	L7	455 (17.9)		413 (16.3)	410 (16.1)	
Headlining to roof panel (front)	H37	22 (0.9)	31 (1.2)	15 (0.6)	19 (0.7)	
Undepressed floor covering thickness	H67	21 (0.8)				
*1: Only for ED634 *2: Only for ED836 *3: Only for ED736						
Rear Compartment						
SgRP Point couple distance	L50	N.A.		740 (29.1)	745 (29.3)	
Effective head room	H63			929 (36.6)	949 (37.4)	
Min. effective leg room	L51			772 (30.4)	814 (32.0)	
SgRP (second to heel)	H31			280 (11.0)	286 (11.3)	
Knee clearance	L48			-46 (-1.8)	-37 (-1.5)	
Compartment room	L3			615 (24.2)	618 (24.3)	
Shoulder room	W4			1352 (53.2)	1346 (53.0)	
Hip room	W6			1162 (45.7)	1328 (52.3)	
Upper body opening to ground	H51			1305 (51.4)	1335 (52.6)	
Back angle	L41			28°		
Hip angle	L43			86°30'	86°36'	
Knee angle	L45			73°30'	76°06'	
Foot angle	L47			105°30'	107°30'	
Headlining to roof panel (second)	H38			16 (0.6)	20 (0.8)	
Depressed floor convering thickness	H73			19 (0.7)	29 (1.1)	
Luggage Compartment						
Usable luggage capacity (L (cu. ft.))	V1	N.A.			347 (12)	
Liftover height	H195	N.A.			698 (27.5)	

* See page 14

See Key Sheets for definitions

Body Type	SAE Ref. No.	COUPE	HATCHBACK	SEDAN
Station Wagon - Third Seat	N.A.			
Sg RP couple distance	L85			
Shoulder room	W85			
Hip room	W86			
Effective leg room	L86			
Effective head room	H86			
Sg RP to heel point	H87			
Knee clearance	L87			
Seat facing direction	SD1			
Back angle	L88			
Hip angle	L89			
Knee angle	L90			
Foot angle	L91			

Station Wagon - Cargo Space N.A.

Cargo length (open front)	L200			
Cargo length (open second)	L201			
Cargo length (closed front)	L202			
Cargo length (closed second)	L203			
Cargo length at belt (front)	L204			
Cargo length at belt (second)	L205			
Cargo width (wheelhouse)	W201			
Rear opening width at floor	W203			
Opening width at belt	W204			
Min. rear opening width above belt	W205			
Cargo height	H201			
Rear opening height	H202			
Tailgate to ground height	H250			
Front seat back to load floor height	H197			
Cargo volume index (m ³ (ft. ³))	V2			
Hidden cargo volume (m ³ (ft. ³))	V4			
Cargo volume index - rear of 2-seat	V10			

Hatchback - Cargo Space

Cargo length at front seatback height	L208	938 (36.9)	1195 (47.0)	N.A.
Cargo length at floor (front)	L209	1188 (46.8)	1429 (56.3)	N.A.
Cargo length at second seatback height	L210	N.A.	444 (17.5)	N.A.
Cargo length at floor (second)	L211	N.A.	703 (27.7)	N.A.
Front seatback to load floor height	H197	390 (15.4)	400 (15.7)	N.A.
Second seatback to load floor height	H198	N.A.	445 (17.5)	N.A.
Cargo volume index (m ³ (ft. ³))	V3	0.66 (23.2)	0.71 (25.0)	N.A.
Hidden cargo volume (m ³ (ft. ³))	V4	N.A.		
Cargo volume index - rear of 2-seat	V11	N.A.	0.48 (16.9)	N.A.

Aerodynamics*

Wheel lip to ground front	:	643 (25.3)		
Wheel lip to ground rear	:	656 (25.8)		
Frontal area (m ² (ft. ²))	:	1.733 (18.66) *1,	1.803 (19.41)	1.860 (20.02) *2,
Drag coefficient (Cd)	:	1.758 (18.92)	0.33	1.885 (20.29)
		0.29 *1, 0.30		0.37 *2, 0.38

*1: ED836 *2: ED354, ED364

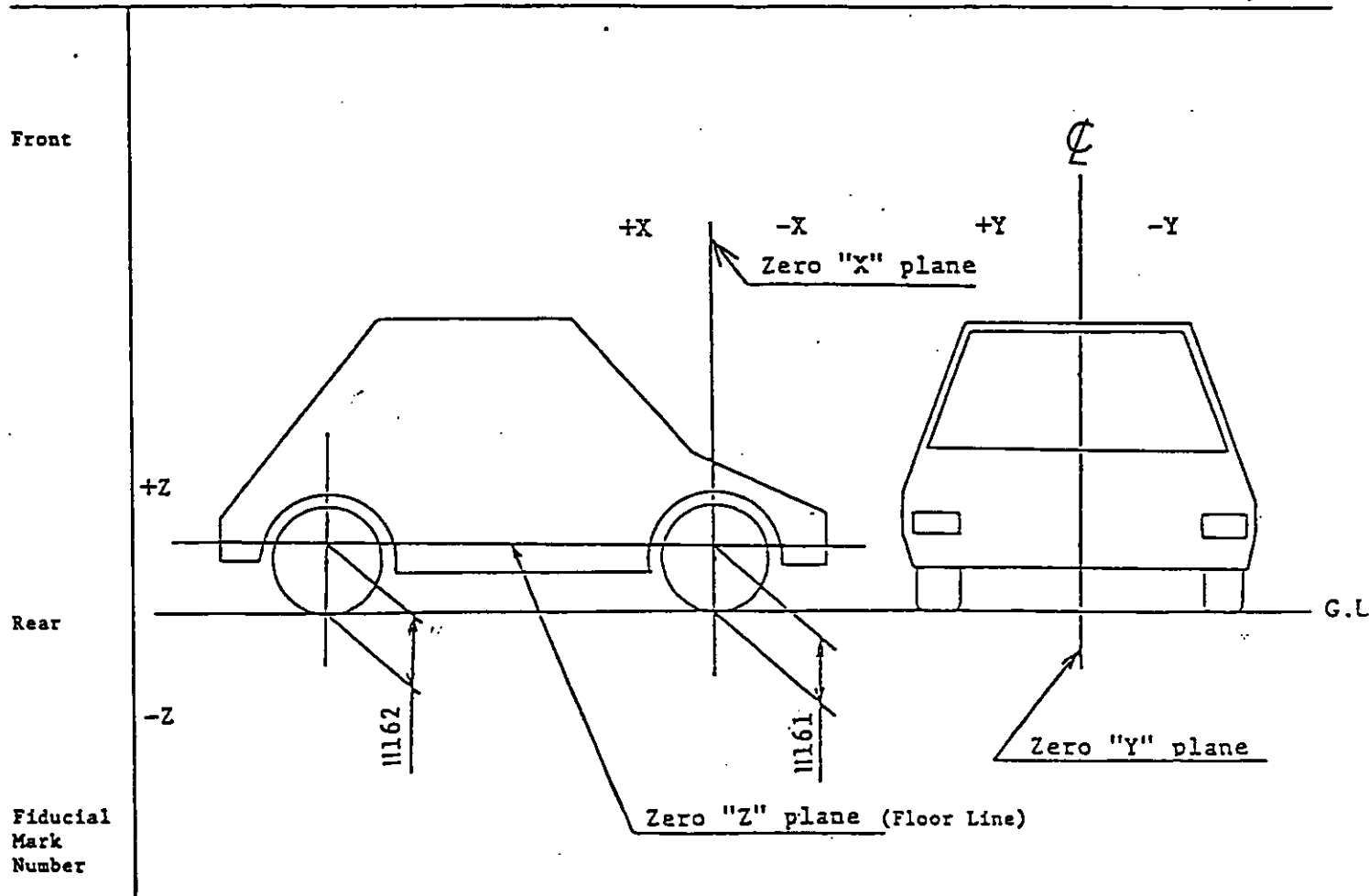
* EPA loaded Vehicle Weight, Loading Conditions

Body Type

COUPE	HATCHBACK	SEDAN
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Vehicle Fiducial Marks

Fiducial Mark :
Number* : Define Coordinate Location



Front	W21*	: —
	L54*	: —
	H81*	: —
	H161*	: 205 (8.1)
	H163*	: —

Rear	W22*	: —
	L55*	: —
	H82*	: —
	H162*	: 220 (8.7)
	H164*	: —

* Reference - SAE Recommended Practice, J182, Motor Vehicle Fiducial Marks.

		Vehicle Mass (weight)								
Code	Model	CURB MASS. kg. (weight. lb.)*			% PASS. MASS DISTRIBUTION				ETWC**	
		Front	Rear	Total	Pass In Front		Pass In Rear			
					Front	Rear	Front	Rear	*1	*2
ED836	CIVIC CRX HF 5M	520 (1146)	312 (688)	832 (1834)	45	55	-	-	2125	2125
ED835	CIVIC CRX 5M	572 (1261)	357 (787)	929 (2048)	45	55	-	-	2375	2375
ED845	CIVIC CRX 4A	595 (1312)	353 (778)	948 (2090)	45	55	-	-	2375	2500
ED936	CIVIC CRX S1	590 (1301)	380 (837)	970 (2138)	45	55	-	-	2500	2500
ED634	CIVIC 1500 HATCHBACK 4M	561 (1237)	352 (776)	913 (2013)	50	50	16	84	2375	2375
ED635	CIVIC 1500 DX HATCHBACK 5M	579 (1276)	368 (812)	947 (2088)	50	50	16	84	2375	2375
ED645	CIVIC 1500 DX HATCHBACK 4A	600 (1322)	370 (816)	970 (2138)	50	50	16	84	2500	2500
ED736	CIVIC 1500 S1 HATCHBACK 5M	592 (1305)	388 (856)	980 (2161)	50	50	16	84	2500	2500
ED354	CIVIC 4 DOOR SEDAN DX 5M	585 (1290)	389 (857)	974 (2147)	50	50	16	84	2500	2500
ED364	CIVIC 4 DOOR SEDAN DX 4A	615 (1356)	387 (853)	1002 (2209)	50	50	16	84	2500	2500
ED355	CIVIC 4 DOOR SEDAN LX 5M	600 (1323)	403 (888)	1003 (2211)	50	50	16	84	2500	2500
ED365	CIVIC 4 DOOR SEDAN LX 4A	620 (1367)	400 (882)	1020 (2249)	50	50	16	84	2500	2625

SHIPPING MASS (weight) = Curb Weight Less Kg. (lbs.) ED836: 26 (57) Others: 30 (66)

*: Reference - SAE J1100 Motor vehicle dimensions, curb weight definition.

** : ETWC - Equivalent Test Weight Class - U.S. Environmental Protection Agency emission certifications are based on the ETWC's shown.

NA - Not Applicable - applies to model / series combinations not requiring testing.

*1: Without Air Conditioner

*2: With Air Conditioner

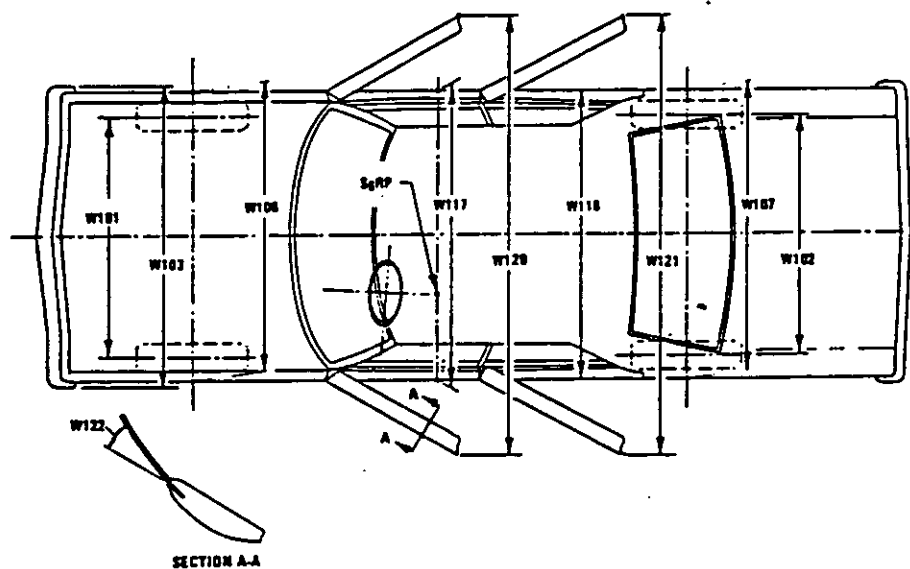
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* Also see Engine - General Section for dressed engine mass (weight)

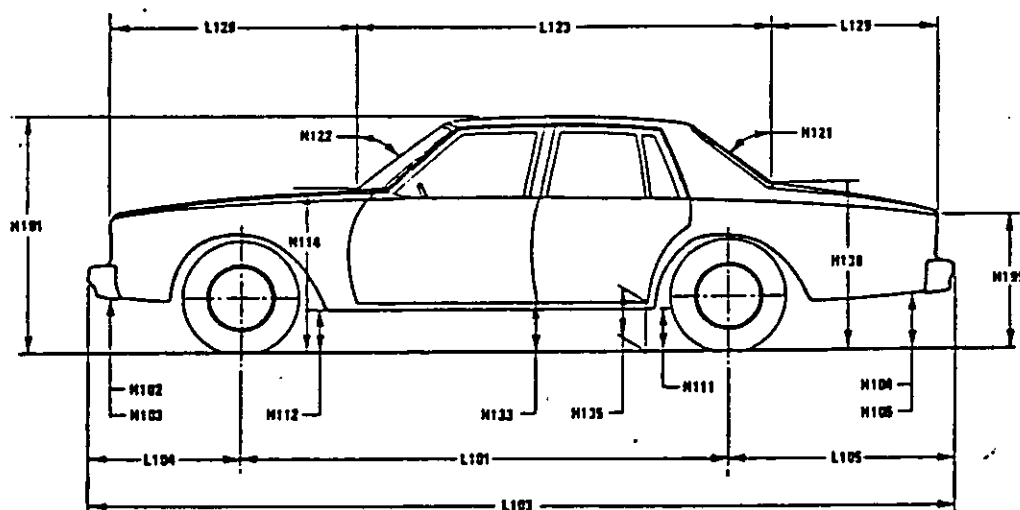
METRIC (U.S. Customary)

Exterior Vehicle And Body Dimensions – Key Sheet

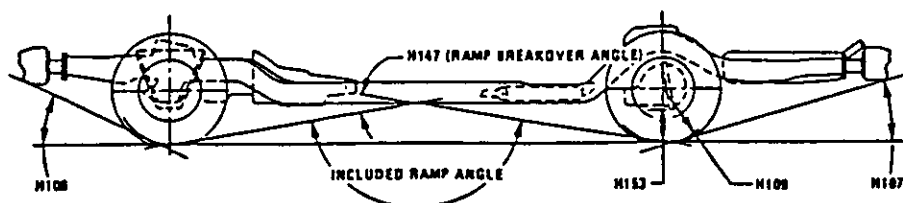
Exterior Width



Exterior Length & Height



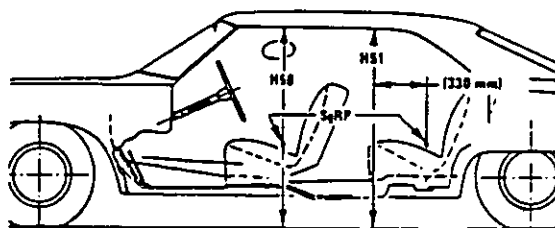
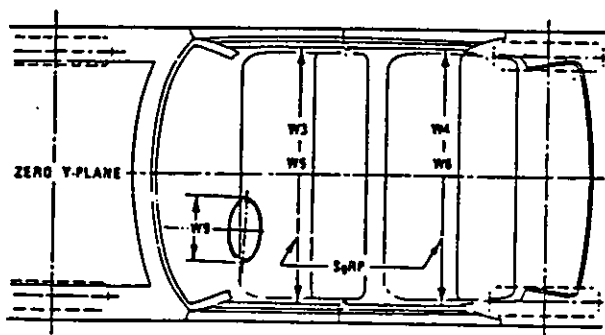
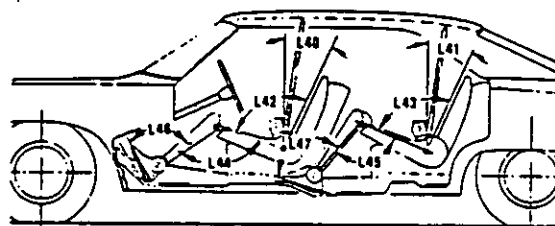
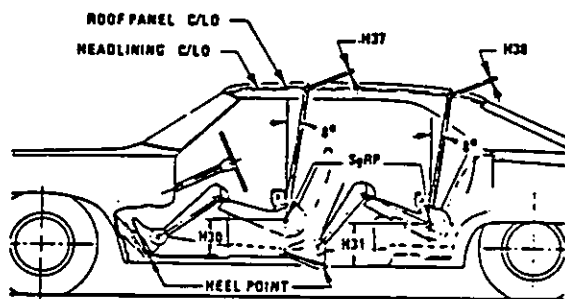
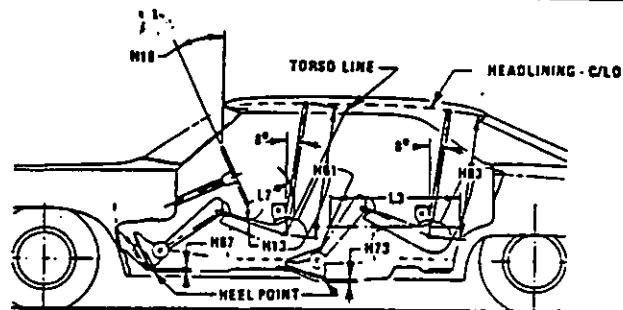
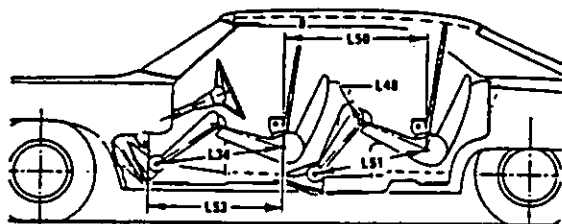
Exterior Ground Clearance



MVMA Specifications Form

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions – Key Sheet

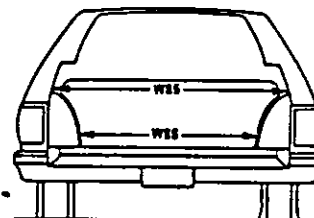
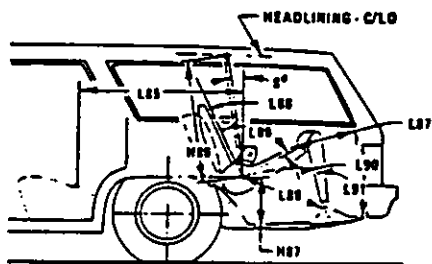


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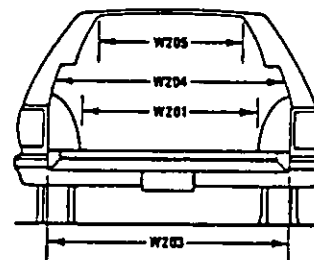
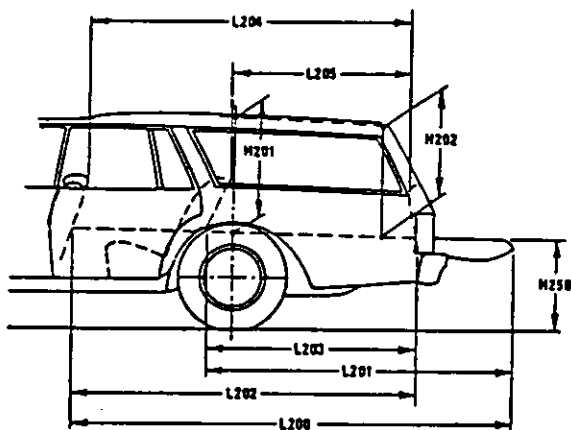
METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions – Key Sheet

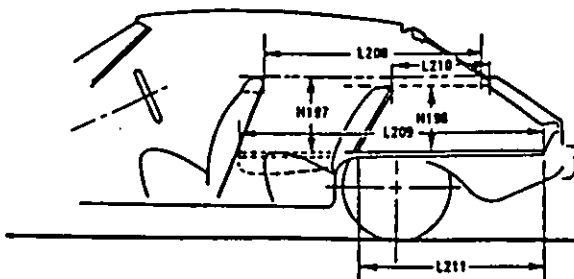
Third Seat



Cargo Space



Station Wagon



Hatchback

MVMA Specifications Form

METRIC (U.S. Customary)

Exterior Vehicle And Body Dimensions -- Key Sheet Dimensions Definitions

Seating Reference Point

SEATING REFERENCE POINT means the manufacturer's design reference point which --

- (a) Establishes the rearmost normal design driving or riding position of each designated seating position in a vehicle;
- (b) Has coordinates established relative to the design vehicle structure;
- (c) Simulates the position of the pivot center of the human torso and thigh; and
- (d) Is the reference point employed to position the two dimensional templates described in SAE Recommended Practice J826, "Devices for Use in Defining and Measuring Vehicle Seating Accommodations."

Width Dimensions

- W101 TREAD--FRONT. The dimension measured between the tire centerlines at the ground.
- W102 TREAD--REAR. The dimension measured between the tire centerlines at the ground. In case of dual wheels, the dimension will be measured to the centerline of tire and wheel assemblies.
- W103 VEHICLE WIDTH. The maximum dimension measured between the widest point on the vehicle, excluding exterior mirrors, flexible mud flaps, marker lamps, but including bumpers, moldings, sheet metal protrusions or dual wheels, if standard equipment.
- W106 FRONT FENDER WIDTH. The dimension measured between the widest points at the front wheel centerline, excluding moldings.
- W107 REAR FENDER WIDTH. The dimension measured between the widest points at the rear wheel centerline, excluding moldings.
- W117 BODY WIDTH AT SgRP--FRONT. The dimension measured laterally between the widest points on the body at the SgRP-front, excluding door handles, applied moldings, or appliques.
- W120 VEHICLE WIDTH--FRONT DOORS OPEN. The dimension measured between the widest point on the front doors in maximum hold-open position.
- W121 VEHICLE WIDTH--REAR DOORS OPEN. The dimension measured between the widest point on the rear doors in maximum hold-open position. For vehicles with a rear door on only one side, this dimension is to the zero "Y" plane.
- W122 TUMBLE--HOME. STRAIGHT SIDE GLASS. The angle measured from a vertical to the outside surface of the front door glass at the SgRP "X" plane.
CURVED SIDE GLASS. The angle measured from a vertical to a chord extending from the upper DLO to the lower DLO at the outside surface of the front door glass at the front SgRP "X" plane.

Length Dimensions

- L101 WHEELBASE (W^B). The dimension measured longitudinally between front and rear wheel centerlines. In case of dual rear axles, the dimension shall be to the midpoint of the centerlines of the rear wheels.
- L103 VEHICLE LENGTH. The maximum dimension measured longitudinally between the foremost point and the rearmost point on the vehicle, including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.
- L104 OVERHANG--FRONT. The dimension measured longitudinally from the centerline of the front wheels to the foremost point on the vehicle including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.
- L105 OVERHANG--REAR. The dimension measured longitudinally from the centerline of the rear wheels; or in the case

of dual rear axles, the dimension shall be the midpoint of the centerlines of the rear wheels, to the rearmost point on the vehicle including rear bumpers, bumper guards, tow hooks and rub strips, if standard equipment.

- L123 UPPER STRUCTURE LENGTH. The dimension measured longitudinally from the cowl point to the deck point.
- L125 COWL POINT "X" COORDINATE.
- L126 FRONT END LENGTH. The dimension measured longitudinally from the cowl point to the foremost point on the vehicle at the zero "Y" plane excluding ornamentation or bumpers. In cases where bumpers and/or grills are integrated with the profile, measurement is made at the foremost point of front end contour.
- L127 REAR WHEEL CENTERLINE "X" COORDINATE or in the case of dual rear axles, the coordinate shall be the midpoint of the distance between the rear axle centerlines.
- L129 REAR END LENGTH. The dimension measured longitudinally from the deck point to the rearmost visible point of the body sheet metal at the zero "Y" plane, excluding ornamentation or bumpers.

Height Dimensions

- H101 VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.
- H111 ROCKER PANEL--REAR TO GROUND. The dimension measured vertically from the bottom of the rocker or side quarter panel at the front of the rear wheel opening, excluding flanges, to ground.
- H112 ROCKER PANEL--FRONT TO GROUND. The dimension measured vertically from the foremost point on the bottom of the rocker panels, excluding flanges, to ground.
- H114 COWL POINT TO GROUND. Measured at zero "Y" plane.
- H121 BACKLIGHT SLOPE ANGLE. The angle between the vertical reference line and the surface of backlight at vehicle zero "Y" plane. For curve backlight, the angle is to chord of backlight arc from lower DLO to upper DLO.
- H122 WINDSHIELD SLOPE ANGLE. The angle between the vertical reference line and a chord of the windshield arc running from the lower DLO to the upper DLO at the vehicle zero "Y" plane. In the case of wrap over glass, the angle to be measured will be formed by a chord 457 mm (18.0 in) long drawn from the lower DLO to the intersecting point on the windshield.
- H133 BOTTOM OF DOOR CLOSED--FRONT TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.
- H135 BOTTOM OF DOOR CLOSED--REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.
- H138 DECK POINT TO GROUND. Measured at zero "Y" plane.
- H109 STATIC LOAD--TIRE RADIUS--REAR. Specified by the manufacturer in accordance with composite TIRE SECTION STANDARD.

Ground Clearance Dimensions

- H102 FRONT BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard equipment.
- H103 FRONT BUMPER TO GROUND--CURB MASS (WT.). Measured in the same manner as H102.

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METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions - Key Sheet Dimensions Definitions

- H104** REAR BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard equipment.
- H105** REAR BUMPER TO GROUND - CURB MASS (WT.). Measured in the same manner as H104.
- H106** ANGLE OF APPROACH. The angle measured between a line tangent to the front tire static loaded radius arc and the initial point of structural interference forward of the front tire to ground. The limiting structural component shall be designated.
- H107** ANGLE OF DEPARTURE. The angle measured between a line tangent to the rear tire static loaded radius arc and the initial point of structural interference rearward of the rear tire to ground. The limiting component shall be designated.
- H147** RAMP BREAKOVER ANGLE. The angle measured between two lines tangent to the front and rear tire static loaded radius and intersecting at a point on the underside of the vehicle which defines the largest ramp over which the vehicle can roll.
- H153** REAR AXLE DIFFERENTIAL TO GROUND. The minimum dimension measured from the rear axle differential to ground.
- H158** MINIMUM RUNNING GROUND CLEARANCE. The minimum dimension measured from the sprung vehicle to ground. Specify location.

Glass Areas

- S1** Windshield area.
- S2** Side windows area. Includes the front door, rear door, vents, and rear quarter windows on both sides of the vehicle.
- S3** Backlight areas.
- S4** Total area. Total of all areas (S1 + S2 + S3).

Fiducial Mark Dimensions

- Fiducial Mark - Number 1**
- L54** "X" coordinate.
- W21** "Y" coordinate.
- H81** "Z" coordinate.
- H161** Height "Z" coordinate to ground at curb weight.
- H163** Height "Z" coordinate to ground.
- Fiducial Mark - Number 2**
- L55** "X" coordinate.
- W22** "Y" coordinate.
- W82** "Z" coordinate.
- H162** Height "Z" coordinate to ground at curb weight.
- H164** Height "Z" coordinate to ground.

Front Compartment Dimensions

- L7** STEERING WHEEL TORSO CLEARANCE. The minimum dimension measured in the side view from the rearmost edge of the steering wheel, with front wheels in the straight ahead position, to the torso line.
- L11** ACCELERATOR HEEL POINT TO STEERING WHEEL CENTER. The dimension measured horizontally from the AHP to the intersection of the steering column centerline and a plane tangent to the upper surface of the steering wheel rim.
- L17** DESIGN H-POINT-FRONT TRAVEL. The dimension measured horizontally between the design H-point-front in the foremost and rearmost seat track positions. (See SAE J1100)
- L23** NORMAL DRIVING AND RIDING SEAT TRACK TRAVEL. The dimension measured horizontally between a point on the design H-point travel line from the SgRP to the displaced point on the design H-point travel line with the seat moved to the foremost seat position, but not to include seat track travel used for purposes other than normal driving and riding positions. (See SAE J1100)

- L31** SgRP-FRONT. "X" COORDINATED.
- L34** MAXIMUM EFFECTIVE LEG ROOM-ACCELERATOR. The dimension measured along a line from the ankle pivot center to the SgRP-front plus 254 mm (10.0 in) measured with right foot on the undepressed accelerator pedal. For vehicles with SgRP to heel (H30) greater than 18 in., the accelerator pedal may be depressed as specified by the manufacturer. If the accelerator is depressed, the manufacturer shall place foot flat on pedal and note the depression of the pedal.
- L40** BACK ANGLE-FRONT. The angle measured between a vertical line through the SgRP-front and the torso line. If the seatback is adjustable, use the normal driving and riding position specified by the manufacturer.
- L42** HIP ANGLE-FRONT. The angle measured between torso line and thigh centerline.
- L44** KNEE ANGLE-FRONT. The angle measured between thigh centerline and lower leg centerline measured on the right leg.
- L46** FOOT ANGLE-FRONT. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the bare foot flesh line measured on the right leg. Ref: SAE J826.
- L53** SgRP-FRONT TO HEEL. The dimension measured horizontally from the SgRP-front to the accelerator heel point.
- W3** SHOULDER ROOM-FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP-front at height between the belt line and 254 mm (10.0 in.) above the SgRP-front, excluding the door assist strap and attaching parts.
- W5** HIP ROOM-FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP-front within 25 mm (1.0 in.) below and 76 mm (3.0 in.) above the SgRP-front and 76 mm (3.0 in.) fore and aft of the SgRP-front.
- W9** STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. Define if other than round.
- H13** STEERING WHEEL TO CENTERLINE OF THIGH. The minimum dimension measured from the bottom of steering wheel, with front wheels in the straight position, to the thigh centerline.
- H17** ACCELERATOR HEEL POINT TO THE STEERING WHEEL CENTER. The dimension measured vertically from the AHP-front to the intersection of the steering column centerline to a plane tangent to the upper surface of the steering wheel rim.
- H18** STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel.
- H30** SgRP-FRONT TO HEEL. The dimension measured vertically from the SgRP-front to the accelerator heel point.
- H37** HEADLINING TO ROOF PANEL-FRONT. The dimension measured from the intersection of the headlining and the extended effective head room line normal to the sheet metal.
- H50** UPPER BODY OPENING TO GROUND-FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP-front "X" plane.
- H61** EFFECTIVE HEAD ROOM-FRONT. The dimension measured along a line 8 deg. rear of vertical from the SgRP-front to the headlining plus 102 mm (4.0 in.).
- H67** FLOOR COVERING THICKNESS-UNDEPRESSED-FRONT. The dimension measured vertically from the surface of the undepressed floor covering to the underbody sheet metal at the accelerator heel point.

Rear Compartment Dimensions

- L3** COMPARTMENT ROOM-SECOND. The dimension measured horizontally from the back of the front seat to the front of the second seatback at a height tangent to the top of the second seat cushion.

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Interior Vehicle And Body Dimensions - Key Sheet Dimensions Definitions

- L-41** BACK ANGLE-SECOND. The angle measured between a vertical line through the SgRP-second and the torso line.
- L43** HIP ANGLE-SECOND. The angle measured between torso line and thigh centerline.
- L45** KNEE ANGLE-SECOND. The angle measured between thigh centerline and lower leg centerline.
- L47** FOOT ANGLE-SECOND. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the three-dimensional devices bare foot flesh line (Reference J826).
- L48** KNEE CLEARANCE-SECOND. The minimum dimension measured from the knee pivot center to the back of the front seatback minus 51 mm (2.0 in.).
- L50** SgRP COUPLE DISTANCE-SECOND. The dimension measured horizontally from the driver SgRP-front to the SgRP-second.
- L51** MINIMUM EFFECTIVE LEG ROOM-SECOND. The dimension measured along a line from the ankle pivot center to the SgRP-second plus 254mm (10.0 in.).
- W4** SHOULDER ROOM-SECOND. The minimum dimension measured laterally between door or quarter trimmed surfaces on the "X" plane through the SgRP-second at height between 254-406 mm (10.0-16.0 in.) above the SgRP-second, excluding the door assist straps and attaching parts.
- W6** HIP ROOM-SECOND. Measured in the same manner as W5.
- H31** SgRP-SECOND TO HEEL. The dimension measured vertically from the SgRP-second to the two dimensional device heel point on the depressed floor covering.
- H38** HEADLINING TO ROOF PANEL-SECOND. The dimension measured from the intersection of the headlining and the extended effective head room line normally to the roof sheet metal.
- H51** UPPER BODY OPENING TO GROUND-SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in.) forward of the SgRP-second.
- H63** EFFECTIVE HEAD ROOM-SECOND. The dimension measured along a line 8 deg. rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.).
- H73** FLOOR COVERING-DEPRESSED-SECOND. The dimension measured vertically from the heel point to the underbody sheet metal.

Luggage Compartment Dimensions

- V1** USABLE LUGGAGE CAPACITY-Total of volumes of individual pieces of standard luggage set plus H-boxes stowed in the luggage compartment in accordance with the procedure described in paragraph 8.2 of SAE-J1100a.
- H195** LIFTOVER HEIGHT. The dimension measured vertically from the luggage compartment lower opening at the zero "Y" plane to ground.

Interior Volumes (EPA Classification)

The Interior Volume Index is listed for each body style except two seaters. The interior volume index estimates the space in a car. It is based on four measurements - head room, shoulder room, hip room, and leg room - for the front and rear seats, plus trunk capacity. The interior volume index is an estimate of the size of the passenger compartment.

The Trunk/Cargo Index is an estimate of the size of the trunk/cargo space. In station wagons and hatchbacks it is an estimate of the space behind the second seat.

Station Wagon - Third Seat Dimensions

- L85** SgRP COUPLE DISTANCE-THIRD. The dimension measured horizontally from the SgRP-second to the SgRP-third.
- L86** EFFECTIVE LEG ROOM-THIRD. The dimension measured along a line from the ankle pivot center to the SgRP-third plus 254 mm (10.0 in.).
- L87** KNEE CLEARANCE-THIRD. The minimum dimension from the knee pivot center to the back of second seatback minus a constant of 51mm (2.0 in.). With rear-facing third seat, dimension is measured to closure.
- L88** BACK ANGLE-THIRD. Measured in the same manner as L41.
- L89** HIP ANGLE-THIRD. Measured in the same manner as L43.
- L90** KNEE ANGLE-THIRD. Measured in the same manner as L45.
- L91** FOOT ANGLE-THIRD. Measured in the same manner as L47.
- W85** SHOULDER ROOM-THIRD. Measured in the same manner as W4.
- W86** HIP ROOM-THIRD. Measured in the same manner as W5.
- H86** EFFECTIVE HEAD ROOM-THIRD. The dimension, measured along a line 8 deg. from the SgRP-third to the head lining rear of vertical plus a constant of 102 mm (4.0 in.).
- H87** SgRP-THIRD TO HEEL POINT.
- SD1** SEAT FACING DIRECTION-THIRD.

Station Wagon - Cargo Space Dimensions

- L200** CARGO LENGTH-OPEN-FRONT. The minimum dimension measured longitudinally from the back of the front seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo surface if the rear closure is a conventional door type tailgate at the zero "Y" plane.
- L201** CARGO LENGTH-OPEN-SECOND. The dimension measured longitudinally from the back of the second seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.
- L202** CARGO LENGTH-CLOSED-FRONT. The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L203** CARGO LENGTH-CLOSED-SECOND. The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L204** CARGO LENGTH AT BELT-FRONT. The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab backpanel at the height of the belt, on the zero "Y" plane.
- L205** CARGO LENGTH AT BELT-SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.
- W201** CARGO WIDTH-WHEELHOUSE. The minimum dimension measured laterally between the trimmed wheelhouse flings at floor level. For any vehicle not trimmed, measure to the sheet metal.

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Interior Vehicle And Body Dimensions - Key Sheet Dimensions Definitions

- W203 REAR OPENING WIDTH AT FLOOR.** The minimum dimension measured laterally between the limiting interferences of the rear opening at floor level.
- W204 REAR OPENING WIDTH AT BELT.** The minimum dimension measured laterally between the limiting interferences of the rear opening at belt height or top of pick up box.
- W205 REAR OPENING WIDTH ABOVE BELT.** The minimum dimension measured laterally between the limiting interferences of the rear opening above the belt height.
- H197 FRONT SEATBACK TO LOAD FLOOR HEIGHT.** The dimension measured vertically from the horizontal tangent to the top of the seatback to the undeepressed floor covering.
- H201 CARGO HEIGHT.** The dimension measured vertically from the top of the undeepressed floor covering to the headlining at the rear wheel "X" coordinate on the zero "Y" plane.
- H202 REAR OPENING HEIGHT.** The dimension measured vertically from the top of the undeepressed floor covering to the upper trimmed opening on the zero "Y" plane with rear door fully open.
- H250 TAILGATE TO GROUND CURB MASS (WT.).** The dimension measured vertically from the top of the undeepressed floor covering on the lowered tailgate to ground on the zero "Y" plane.
- V2 STATION WAGON**
Measured in inches:

$$\frac{W4 \times H201 \times L204}{1728} = \text{ft}^3$$
 Measured in mm:

$$\frac{W4 \times H201 \times L204}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- V4 HIDDEN LUGGAGE CAPACITY-REAR OF FRONT SEAT.** The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.
- V5 TRUCKS AND MPV'S WITH OPEN AREA.**
Measured in inches:

$$\frac{L506 \times W500 \times H503}{1728} = \text{ft}^3$$
 Measured in mm:

$$\frac{L506 \times W500 \times H503}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- V6 TRUCKS AND MPV'S WITH CLOSED AREA.**
Measured in inches:

$$\frac{L204 \times W500 \times H505}{1728} = \text{ft}^3$$
 Measured in mm:

$$\frac{L204 \times W500 \times H505}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- V8 HIDDEN LUGGAGE CAPACITY-REAR OF SECOND SEAT.** The total volume of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the second seat.
- V10 STATION WAGON CARGO VOLUME INDEX.**
Measured in inches:

$$\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{1728} = \text{ft}^3$$
 Measured in mm:

$$\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

Hatchback-Cargo Space Dimensions

All hatchback cargo dimensions are to be taken with the front seat full down and rear position, and the rear seat folded down. The hatchback door is in the closed position. (For electrically adjusted seat see the manufacturer's specifications for Design "H" Point).

- L208 CARGO LENGTH AT FRONT SEATBACK HEIGHT.** The minimum horizontal dimension from the "X" plane tangent to the rearmost surface of the driver's seatback to the inside limiting interference of the hatchback door on the vehicle zero "Y" plane.
- L209 CARGO LENGTH AT FLOOR-FRONT-HATCHBACK.** The minimum horizontal dimension measured at floor level from the rear of the front seatback to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.
- L210 CARGO LENGTH AT SECOND SEATBACK HEIGHT HATCHBACK.** The minimum dimension measured from the "X" plane tangent to the rearmost surface of second seat back or the load floor which is stowed at least one half of the H198 dimension height above the rear load floor, to the rearmost inside limiting interference on the zero "Y" plane.
- L211 CARGO LENGTH AT FLOOR-SECOND HATCHBACK.** The minimum horizontal dimension measured at floor level from the rear of the second seatback or load floor panel to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.
- H197 FRONT SEATBACK TO LOAD HEIGHT.** The dimension measured vertically from the horizontal tangent to the top of the seatback to the undeepressed floor covering.
- H198 SECOND SEATBACK TO LOAD FLOOR HEIGHT.** The dimension measured vertically from the second seat back to the undeepressed floor covering.
- V3 HATCHBACK.**
Measured in inches:

$$\frac{L208 + L209}{2} \times W4 \times H197 = \text{ft}^3$$
 Measured in mm:

$$\frac{L208 + L209}{2} \times W4 \times H197 = \text{m}^3 \text{ (cubic meter)}$$
- V4 HIDDEN LUGGAGE CAPACITY-REAR OF FRONT SEAT.** The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.
- V11 HATCHBACK CARGO VOLUME INDEX.** Usable luggage (one (1) stand and luggage set) below floor:
Measured in inches:

$$\frac{L210 + L211}{2} \times W4 \times H198 = \text{ft}^3$$
 Measured in mm:

$$\frac{L210 + L211}{2} \times W4 \times H198 = \text{m}^3 \text{ (cubic meter)}$$

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METRIC (U.S. Customary)

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Rear Axle	2, 9, 1
Regulator - Alternator	1
Restraint System	1
Rims	1
Rods - Connecting	
Scrub Radius	1
Seats	1
Shock Absorbers, Front & Rear	1
Spark Plugs	1
Speedometer	1
Springs - Front & Rear Suspension	1
Stabilizer (Sway Bar) - Front & Rear	1
Starting System	1
Steering	1
Suppression - Ignition, Radio	1
Suspension - Front & Rear	1
Tail Pipe	
Theft Protection	2
Thermostat, Cooling	
Tires	1
Toe-In	1
Torque Converter	
Torque - Engine	2, 8,
Transaxle	
Transmission - Types	2, 8,
Transmission - Automatic	2, 8,
Transmission - Manual	2, 8,
Transmission - Ratios	2,
Tread	2
Trunk Cargo Load	
Trunk Luggage Capacity	2
Turning Diameter	1
Utilized Construction	1
Universal Joints, Propeller Shaft	1
Valve System	
Vehicle Dimensions	
Width	2
Length	2
Height	2
Ground Clearance	2
Front Compartment	2
Rear Compartment	2
Luggage Compartment	2
Station Wagon - Third Seat	2
Station Wagon - Cargo Space	2
Hatchback - Cargo Space	2
Fiducial Marks	2
Voltage Regulator	1
Water Pump	
Weights	25, 2
Wheel Alignment	1
Wheelbase	2
Wheels & Tires	1
Wheel Spindle	1
Widths	2
Windshield	1
Windshield Wiper and Washer	1