

USA
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MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1990

Manufacturer Dr. Ing. h.c. F. Porsche Aktiengesellschaft	Vehicle Line 944 Type: 944 S2	
Mailing Address Porschestrasse 42 7000 Stuttgart - 40	Issued 29.06.89	Revised

Direct questions concerning these specifications to the manufacturer listed above.

The information contained herein is prepared, distributed by, and is solely the responsibility of the vehicle manufacturing company to whose products it relates. This specification form was developed by the vehicle manufacturing companies under the auspices of the Motor Vehicle Manufacturers Association of the United States, Inc.

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.

MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line Porsche 944
Model Year 90 Issued 7/89 Revised (e) _____

☒ Vehicle Origin

Design & development (company)	Dr. Ing. h.c. F. Porsche AG
Where built (country)	Federal Republic of Germany
Authorized U.S. sales marketing representative	Porsche Cars of North America, Reno, Nevada

☒ Vehicle Models

Model Description & Drive (FWD/RWD/4WD/4WD)*	Introduction Date	Make, Vehicle Models, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load—Kilograms (Pounds)
944 S2 RWD	1/89	Porsche	2/2	

☒ * FWD - Front Wheel Drive RWD - Rear Wheel Drive
AWD - All Wheel Drive 4WD - Four Wheel Drive

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Vehicle Line 944
 Model Year 1990 Issued 7/89 Revised (e) _____

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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	ENGINE						E x h a u s t S/D*	TRANSMISSION/ TRANSAXLE	AXLE RATIO (std. first)
	Code	Displ. Liters (l ³)	Induction (FI, CARB/ BBL etc.)	Compr. Ratio	SAE Net at RPM				
					Power kW (bhp)	Torque N · m (lb. ft.)			
944 S		3,0 l	DME	10,9	155 (208) 5800	280 (207) 4100	2)	manual 5-speed	3,875 : 1
2) unleaded,	RON/MON 95/85								

Single/ Dual

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Vehicle Line 944
Model Year 1990 Issued 7/89 Revised (e) _____

Engine Description/Carb.
Engine Code

944 S2 3,0 l

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hams, wedge, pre-camber, etc.)	4-stroke 4-cylinder SI engine, inline, longitudinally front, dohc	
Manufacturer	Porsche	
No. of cylinders	4	
Bore	104	
Stroke	88	
Bore spacing (C/L to C/L)	lower part: GD-ALSi8Cu3 / upper part: GK-ALSi17Cu4Mg	
Cylinder block material & mass kg (lbs.) (machined)	235, upper part	
Cylinder block deck height		
Cylinder block length		
Deck clearance (minimum) above or below block		
Cylinder head material & mass kg (lbs.)	12 WA, GK-ALSi12CuNiMgwa/Al-alloy	
Cylinder head volume (cm³)	41,2 + 0,9 - 1,1	
Cylinder liner material		
Head gasket thickness (compressed)	1.0	
Minimum combustion chamber total volume (cm³)		
Cyl. no. system (front to rear)*	L Bank	1 - 2 - 3 - 4
	R Bank	-
Firing order	1 - 3 - 4 - 2	
Intake manifold material & mass [kg (lbs.)]**		
Exhaust manifold material & mass [kg (lbs.)]**		
Fuel required unleaded, diesel, etc.	unleaded	
Fuel antiknock index (R + M) + 2	90	
Engine mounts	Number	2
	Material and type (elastomeric, hydroelastic, hydraulic camper, etc.)	hydroelastic
	Added isolation (sub-frame, crossmember, etc.)	subframe
Total dressed engine mass (wt) dry***	172	

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Al-alloy 482 gr
--	--------------------

Engine - Camshaft

Location		dohc
Material & mass (weight, bs.)		clear chill casting
Drive type	Chain / belt	crankshaft/camshaft: via toothed belt
	Width / pitch	camshaft/camshaft: center drive via chain toothed belt width/pitch: 25.4/9.525

* Rear of engine - drive takeoff. View from drive takeoff end to determine left & right side of engine.

** Finished state.

*** Dressed engine mass (weight) includes the following:

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Engine Description/Carb.
Engine Code

944 S2 3,0 l

Engine - Valve System

Hydraulic lifters (std., opt., NA)	std.
Valves	Number intake / exhaust 8/8
	Head O.D. intake / exhaust 37/33

Engine - Connecting Rods

Material & mass (kg., (weight, lbs.))*	steel, sinter — forged or casted 845 gr.
Length (axes E to R) mm	

Engine - Crankshaft

Material & mass (kg., (weight, lbs.))*	42CrMo4 26.1 kg
End thrust taken by bearing (no.)	
Length & number of main bearings	5
Oil seal (material, one, two piece design, etc.)	Front Rear
	FPM viton I FPM viton I

Engine - Lubrication System

Normal oil pressure (kPa (psi) at engine rpm)	< 350 at 6000 min ⁻¹ and T = 90 °C
Type oil intake (floating, stationary)	forced-feed lubrication with gear pump
Oil filter system (full flow, part, other)	full flow
Capacity of oil case, less filter-refill-L (qt.)	7,5 including filter

Engine - Diesel Information

n.a.

Diesel engine manufacturer	
Glow plug, current drain at 0°F	
Injector nozzle	Type Opening pressure (kPa (psi))
Pre-chamber design	
Fuel injection pump	Manufacturer Type
Fuel injection pump drive (belt, chain, gear)	
Supplementary vacuum source (type)	
Water 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	
Super charger - manufacturer	
Intercooler	

*Finished State

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METRIC (U.S. Customary)

Engine Description/Carb.
Engine Code

944 S2 3,0 l

sportpackage

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		std.
Coolant fill location (rad., bottle)		bottle
Radiator cap relief valve pressure (kPa (psi))		150
Circulation thermostat	Type (choke, bypass)	bypass
	Starts to open at °C (°F)	83 °C
Water pump	Type (centrifugal, other)	centrifugal
	GPM 1000 pump rpm	
	Number of pumps	1
	Drive (V-belt, other)	toothed belt
	Bearing type	roller bearing
	Impeller material	vyncolite RX G13
	Housing material	Al-alloy
By-pass recirculation (type (Inter., ext.))		internal
Cooling system capacity	With heater—L/qt.)	8.0
	With air cond.—L/qt.)	8.0
	Opt. equipment (specify—L/qt.)	-
Water jackets full length of cyl. (yes, no)		no
Water all around cylinder (yes, no)		no
Water jackets open at head face (yes, no)		yes
Radiator core	Std., A/C, HD	air condition std. heating
	Type (cross-flow, etc.)	cross flow
	Construction (fin & tube mechanical, braze, etc.)	tubes and fins
	Material, mass (kg (wgt. lbs.))	Aluminium
	Width	355
	Height	500
	Thickness	43
Fins per inch		
Radiator end tank material		
Fan	Std., elec., opt.	2 electric
	Number of blades & type (flex, solid, material)	2x6
	Diameter & projected width	dia: 280
	Ratio (fan to crankshaft rev.)	n.a.
	Fan cutout type	
	Drive type (direct, remote)	remote
	RPM at idle (elec.)	
	Motor rating (wattage) (elec.)	
	Motor switch (type & location) (elec.)	bottom of radiator core
	Switch point (temp., pressure) (elec.)	87 °C - 92 °C
Fan shroud (material)		plastic (PPN)

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METRIC (U.S. Customary)

Engine Description/Carb.
Engine Code

944 S2 3,0 l

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

Induction type: carburetor, fuel injection system, etc.		digital engine electronics
Manufacturer		Bosch
☒ Carburetor no. of barrels		n.a.
Idle A/F max.		= 1
Fuel injection	Point of injection (no.)	cylinder head
	Constant, pulse, flow	pulse
	Control (electronic, mech.)	electronic
	System pressure [kPa (psi)]	pressure difference approx. 380 minus manifold vacuum
Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	
	Automatic	
Water manifold heat control (exhaust or water thermostatic or fixed)		fixed
Air cleaner type		paper filter
Fuel filter (type/location)		rear/beneath fuel pump
☒ Fuel pump	Type (elec. or mecn.)	electric
	Location (eng., tank)	tank
	Pressure range [kPa (psi)]	380
	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))	

Fuel Tank

Capacity (refill L (gallons))		80
Location (describe)		on rear axle
Attachment		4 clamping straps with plate
Material & Mass (kg (weight lbs))		plastic
Filler pipe	Location & material	rear quarter panel
	Connection to tank	plastic
Fuel line (material)		steel
Fuel hose (material)		rubber with fabric insert
Return line (material)		steel
Vapor line (material)		steel/rubber
Extended range tank	Opt., n.a.	n.a.
	Capacity [L (gallons)]	n.a.
	Location & material	n.a.
	Attachment	n.a.
Auxiliary tank	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.

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METRIC (U.S. Customary)

Engine Description/Carb.
Engine Code

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Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		3-way-catalyst with heated oxygen sensor
	Air Injection	Pump or pulse	n.a.
		Driven by	n.a.
		Air distribution (head, manifold, etc.)	n.a.
		Point of entry	n.a.
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	n.a.
		Exhaust source Point of exhaust injection (spacer, carburetor, manifold, other)	n.a.
	Catalytic Converter	Type	3-way
		Number of	1
		Location(s)	underfloor
		Volume (L (in ³))	2,5 l
		Substrate type	ceramic monolith
		Noble metal type	platin and rhodium
		Noble metal concentration (g/cm ²)	50 gr./ft. ²
Type (ventilates to atmosphere, induction system, other)		above oil separator between throttle housing and air flow meter (to induction system)	
Energy source (manifold vacuum, carburetor, other)		airmeter vacuum	
Discharges (to intake manifold, other)		connectinghose to throttle body	
Crankcase Emission Control	Air inlet (breather cap, other)		none
	Vapor vented to (crankcase, canister, other)	Fuel tank	char coal filter
		Carburetor	
Evaporative Emission Control	Vapor storage provision		yes
	Closed loop (yes/no)		yes
Electronic System	Open loop (yes/no)		

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		dual-tube manifold, catalyst, middle silencer, back muffler
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass (kg (weight lbs))		(1 reverse flow) 1 (straight thru)
Resonator no. & type		
Exhaust pipe	Branch o.d., wall thickness	50 x 2
	Main o.d., wall thickness	58 x 1,5
	Material & Mass (kg (weight lbs))	stainless steel (1.4512)
Inter-mediate pipe	o.d. & wall thickness	58 x 1,5
	Material & Mass (kg (weight lbs))	see above
Tail pipe	o.d. & wall thickness	65 x 1,5
	Material & Mass (kg (weight lbs))	see above

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Vehicle Class _____ Model Year 1990 Issued _____ Revised (e) _____

METRIC (U.S. Customary)

Engine Description/Carb.
Engine Code

944 S2 3,0 l

Transmissions/Transaxle (Std., Opt., N.A.) rear transmission

Manual 3-speed (manufacturer/country)	
Manual 4-speed (manufacturer/country)	
Manual 5-speed (manufacturer/country)	std.
Automatic (manufacturer/country)	n.a.
Automatic overdrive (manufacturer/country)	

Manual Transmission/Transaxle

Number of forward speeds		5
Gear ratios	1st	3.500
	2nd	2.059
	3rd	1.400
	4th	1.034
	5th	0.778
	Reverse	3.500
Synchronous meshing (specify gears)		all forward speeds and reverse
Shift lever location		at "transaxle" tube
Trans. case mat'l. & mass kg (lbs)*		
Lubricant	Capacity [L (pt.)]	2.0, differential included
	Type recommended	hypoid oil SAE 80 according to MIL-L 2105

Clutch (Manual Transmission)

Clutch manufacturer		
Clutch type (dry, wet; single, multiple disc)		dry single-plate clutch, engine-end
Linkage (hydraulic, cable, rod, lever, other)		
Max. pedal effort (nom. spring load, new) N (lbs)	Depressed	
	Released	
Assist (spring, power/percent, nominal)		
Type pressure plate springs		diaphragm spring, drawn
Total spring load (nominal, new) N (lbs)		7.800 - 8.500
Clutch facing	Facing mfr. & material coding	
	Facing material & construction	K 208/1B non asbestos
	Rivets per facing	8/plate
	Outside x inside dia. (nominal)	225/150
	Total eff. area [cm ² (in. ²)]	220.9
	Thickness (pressure plate side/fly wheel side)	
	Rivet depth (pressure plate side/fly wheel side)	
	Engagement cushion method	hydraulic via clutch lever and clutch release bearing
Release bearing type & method lub.		centered in guide tube, deep groove ball bearing, per. lubr sealed
Torsional damping method, springs, hysteresis		rubber spring steel spring

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

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Eng./to Description/Carb.
Engine Code

944 S2 3,0 1

Automatic Transmission/Transaxle n.a.

Trade name		
Type and special features (describe)		
Selector	Location	
	Ltr./No. designation	
Gear ratios	1st	
	2nd	
	3rd	
	4th	
	Reverse	
Max. upshift speed - drive range (km/h (mph))		
Max. kickdown speed - drive range (km/h (mph))		
Min. overdrive speed (km/h (mph))		
Torque converter	Number of elements	
	Max. ratio at stall	
	Type of cooling (air, liquid)	
	Nominal diameter	
	Capacity factor "K"	
Lubricant	Capacity (refill L (pt.))	
	Type Recommended	
Oil cooler (std., opt., NA, internal, external, air, liquid)		
Transmission case material & mass kg (lbs)**		

Axle or Front Wheel Drive Unit

Type (front, rear)	rear
Description	integrated with gear box
Limited slip differential (type)	40 % locking ratio (option)
Drive pinion offset	
Drive pinion (type)	Klingelnberg AVAU palloid
No. of differential pinions	2
Pinion / differential adjustment (shim, other)	
Pinion / differential bearing adjustment (shim, other)	
Driving wheel bearing (type)	taper roller bearing
Lubricant	Capacity (L (pt.))
	Type recommended
	see manual transmission
	see manual transmission

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

Axle ratio (or overall top gear ratio)		n.a.
No. of teeth	Pinion	9
	Ring gear or gear	31
Ring gear o.d.		188
Transaxle	Transfer gear ratio	n.a.
	Final drive ratio	3.875

* Input speed + $\sqrt{\text{torque}}$

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

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Vehicle Line

944

Model Year

1990

Issued

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Engine Description/Carb.
Engine Code

944 S2 3,0 l

Axle Shafts – Front Wheel Drive

*)

Manufacturer and number used

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

Left

Right

Outer
diam. x
length* x
wall
thickness

Manual transaxle

Left

Right

Automatic transaxle

Left

Right

Optional transaxle

Left

Right

Slip
yoke

Type

Number of teeth

Spline o.d.

Universal
joints

Make and mfg. no.

Inner

Outer

Number used

Type, size, plunge

Inner

Outer

Attach (u-bolt, clamp, etc.)

Bearing

Type (plain,
anti-friction)

Lubrication
(fitting, prepack)

Drive taken through (torque tube,
arms or springs)

Torque taken through (torque tube,
arms or springs)

All Wheel/4 Wheel Drive

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

Transfer
case

Manufacturer

Type

Model

Low-range gear ratio

System disconnect (describe)

Center
differential

Type (bevel, planetary, w or w/o
viscous bias, torsen, etc.)

Torque split (% front/rear)

*) Front engine and rear transaxle, connected by a central tube with inner cetral shaft

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

Dimensions: central tube 85 x 4 (mm)
central shaft 25 Ø (mm)

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Body Type And/Or
Engine Displacement

944 S2 3,0 l

Suspension - General Including Electronic Controls

		sport suspension	sportpackage
Car leveling	Standard / optional / not avail.	n.a.	std. front and rear manual
	Manual / automatic control	n.a.	
	Type (air/hydraulic)	n.a.	
	Primary / assist spring		
	Rear only / 4 wheel leveling		
	Single / dual rate spring		
	Single / dual ride heights		
Shock absorber damping controls	Provision for jacking	2 mountings for jacking 4 mountings for lift platform	
	Standard / option / not avail.	n.a.	
	Manual / automatic control	manual	manual
	Number of damping rates	infinitely wearable	infinitely wearable
	Type of actuation (manual / electric motor / air, etc.)	man., rebound adjustable	man., rebound and compression adjustable
	☐ Lateral acceleration ☐ Deceleration ☐ Acceleration ☐ Road surface		
Shock absorber (front & rear)	Type	hydraulic shock absorbers	
	Makes	front/rear: F & S	front/rear: Koni
	Piston diameter	front: 32 / rear: 30	front/rear: Koni, opt. Bilstein
	Rod diameter	front: 22 / rear: 11	front: 22 / rear: 15,7

Suspension - Front

Type and description	Mc Pherson			
Travel*	Full bounce	113 mm	adjustable	adjustable
	Full rebound	77 mm	adjustable	adjustable
Spring	Type (coil, leaf, other) & material	coil 55 Cr 3	coil 55 Cr 3	coil 55 Cr 3
	Insulators (type & material)	rubber	rubber	rubber
	Size (coil design height & i.d., bar length & dia.)	wire diameter: 11,3 mm	Ø 11,7 - 12,2	Ø 11,6
	Spring rate (N/mm (lb./in.))	coil diameter: 94,4 mm	Ø 98,3 - 111,5	Ø 94,4
	Rate at wheel (N/mm (lb./in.))	23,8	28	Ø 8,52 - 14,0
Stabilizer	Type (link, linkless, frameless)	22,4	26,2	Ø 103,64 - 123,7
	Material & bar diameter	26,2	26,2	35 - 65
		tube 26,8x4	tube 26,8x4	32,3 - 60
			tube 26,8x4	tube 30x4,5

Suspension - Rear

Type and description	Independent wheel suspension at semi-trailing arms			
Travel*	Full bounce	109 mm	adjustable	adjustable
	Full rebound	80 mm	adjustable	adjustable
Spring	Type (coil, leaf, other) & material	torsion bar: 676x24,0	Ø 25,5	Ø 25,5
	Size (length x width, coil design height & i.d., bar length & dia.)			Ø 25,5
	Spring rate (N/mm (lb./in.))		for torsion bar 31,0	with additional coil spring
	Rate at wheel (N/mm (lb./in.))		22,5	Ø 8,02 - Ø 10,5
	Insulators (type & material)	n.a.		for torsionbar 31,0 coil spring 34-65
Stabilizer	Type (link, linkless, frameless)			45,4-58,5
	Material & bar diameter	Ø 16	Ø 16	Ø 21 strength adj.
Torsion bar (type)		n.a.		

* Define test conditions:

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Body Type And/Or
Engine Displacement

944 S2 3,0 l

sportsuspension/
sportpackage

Brakes - Service

Description		hydraulic dual circuit brake system, one circuit per axle	
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)	disc	
	Rear (disc or drum)	disc	
Valving type (proportion, delay, metering, other)		pressure-proportioning brake force regulator	
Power brake (std., opt., n.a.)		std.	
Booster type (remote, integral, vac., hyd., etc.)		vacuum booster	
Vacuum	Source (inline, pump, etc.)	manifold vacuum	
	Reservoir (volume in.³) and source		
	Pump-type (elec. gear driven, belt driven)		
Traction control	Operational speed range		
	Type engine intervention (electronic, mech.)		
Anti-lock device	Front/rear (std., opt., n.a.)	std.	opt.
	Manufacturer	Bosch	Bosch
	Type (electronic, mech.)	electr.	electr.
	Number sensors or circuits	4 sensors	4 sensors
	Number anti-lock hydraulic circuits	3 circuits	3 circuits
	Integral or add-on system		
	Yaw control (yes, no)		
	Hydraulic power source (elect., vac. mtr., pwr. strg.)		
Effective area (cm²(in.²))*		344 (53,32)	422 (65,41)
Gross lining area (cm²(in.²))**(F/R)			
Swept area (cm²(in.²))*** (F/R)		3190	3190
Rotor	Outer working diameter	F/R 298/299	298/299 opt 304/299
	Inner working diameter	F/R 195/196,5	195/196,5
	Thickness	F/R 28/24	28/24 opt 32/24
	Material & type (vented/solid)	F/R cast iron - internally vented,	cast iron-int.vent.
Drum	Diameter & width	F/R n.a.	opt. drilled drilled
	Type and material	F/R	
Wheel cylinder bore		F: 40/36 R: 30/28	F: 40/36 R: 30/28
Master cylinder	Bore/stroke	F/R 23,81/20,64	opt. F: 44/36 R: 30/28
Pedal arc ratio		4,93	
Line pressure at 445 N(100 lb.) pedal load (kPa (psi))		9800	
Lining clearance		F/R	
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)	bonded
		Rivet size	
		Manufacturer	Jurid 238 / Pagid 537
		Lining code*****	Textar T400/Pagid RS 4-2
		Material	non asbestos non asbestos
		Size Primary or out-board *)	97,8x52x12,5
		Size Secondary or in-board	
		Shoe thickness (no lining)	5,00 mm
	Rear wheel	Bonded or riveted (rivets/seg.)	bonded
		Manufacturer	Jurid 238/Pagid 537
		Lining code*****	Textar T400/Pagid RS 4-2
		Material	non asbestos non asbestos
		Size Primary or out-board *)	97,8x52x12,5
		Size Secondary or in-board	
		Shoe thickness (no lining)	5,00 mm

*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 Diameter 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.

*) Lining dimensions: carrier and damping foil not included

MVMA Specifications Form

Vehicle Line

Model Year

1990

Issued

Revised (e)

METRIC (U.S. Customary)Body Type And/Or
Engine Displacement

944 S2 3,0 l

Tires And Wheels (Standard)

Tires	Size (load range, ply)		rear: 225/50 ZR 16 / front: 205/55 ZR 16
	Type (bias, radial, steel, nylon, etc.)		steel belted radials
	Inflation pressure (cold) for recommended max. vehicle load	Front [kPa (psi)]	2,5 bar
		Rear [kPa (psi)]	2,5 bar
Rev./mile—at 70 km/h (45 mph)			
Wheels	Type & material		Al-alloy castings
	Rim (size & flange type)		rear: 8 J x 16 / front: 7 J x 16
	Wheel offset		rear: 52,3 / front: 55
	Attachment	Type (bolt or stud)	stud/anti-theft locking
		Circle diameter	130 mm
		Number & size	5 (M14x1,5)
Spare	Tire and wheel		collapsible spare tire 165-15 8 (PR 89 P on 5 1/2 J x 15
	Storage position & location (describe)		upright in front of rear end panel

Tires And Wheels (Optional)

Tire size (load range, ply)	F: 225/50 ZR 16 / R: 245/45 ZR 16
Type (bias, radial, steel, nylon, etc.)	steel belted radials
Wheel (type & material)	F: 7,5Jx16 ET 65 R: 9 J x 16 ET 52,3
Rim (size, flange type and offset)	aluminium casting
Tire size (load range, ply)	F: 205/55 ZR 16 / R: 225/50 ZR 16
Type (bias, radial, steel, nylon, etc.)	steel belted radials
Wheel (type & material)	F: 7 J x 16 ET 52,3 / R: 8 J x 16 ET 52,3
Rim (size, flange type and offset)	aluminium forging
Tire size (load range, ply)	F: 225/50 ZR 16 / R: 245/45 ZR 16
Type (bias, radial, steel, nylon, etc.)	steel belted radials
Wheel (type & material)	F: 8 J x 16 ET 52,3 / R: 9 J x 16 ET 60
Rim (size, flange type and offset)	magnesium casting
Tire size (load range, ply)	
Type (bias, radial, steel, nylon, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Ø Spare tire and wheel size (if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)	

Brakes - Parking

Type of control		manual
Location of control		left of drive seat
Operates on		rear axle
If separate from service brakes	Type (internal or external)	separate drums at rear wheels
	Drum diameter	180
	Lining size (length x width x thickness)	lining area: 85 cm ² (per wheel)

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METRIC (U.S. Customary)

Body Type And/Or
Engine Displacement

944 S2 3,0 l

sportpackage/
sportsuspension

Steering

Manual (std., opt., n.a.)				opt.	
Power (std., opt., n.a.)		std.		std.	
Adjustable steering wheel/column (tilt, telescope, other)	Type				
	Manufacturer				
	(Std., opt., n.a.)				
Wheel diameter** (W9) SAE J1100	Manual				
	Power	380	380 opt: 363		
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	10,75	10,75	
		Curb to curb (l. & r.)	10,1	10,1	
	Inside rear	Wall to wall (l. & r.)			
		Curb to curb (l. & r.)			
Scrub Radius*				13,7	
Manual	Gear	Type	n.a.	rack and pinion	
		Manufacturer		ZF	
		Ratios		18,85	
		Overall		3,24	
	No. wheel turns (stop to stop)		3,24		
Power	Type (coaxial, elec., hyd., etc.)		hydr.		
	Manufacturer		ZF		
	Gear	Type	rack and pinion		
		Ratios			
		Overall	18,85 : 1		
	Pump (drive)		belt-driven via crankshaft pulleys		
No. wheel turns (stop to stop)		3,24			
Linkage	Type		rack and pinion		
	Location (front or rear of wheels, other)		in front of front axle		
	Tie rods (one or two)		2		
Steering axis	Inclination at camber (deg.)				
	Bearings (type)	Upper	ball bearing		
		Lower	spherical joint		
		Thrust			
Steering spindle & joint type		3-piece steering shaft with 2 universal joints			
Wheel spindle/hub	Diameter	Inner bearing			
		Outer bearing			
	Thread (size)		M 16 x 1,5	M 16 x 1,5	
	Bearing (type)		ball bearing		

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

**See Page 22

MVMA Specifications Form

Vehicle Line 944
Model Year 1990 Issued _____ Revised (e) _____

METRIC (U.S. Customary)

Body Type And/Or
Engine Displacement

944 S2 3,0 l

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	2,5° + 30 min - 15 min
		Camber (deg.)	0 min ± 10 min (sportpackage max. -2°30')
		Toe-in (outside track-mm (in.))	+10 min ± 5 min (overall)
	Service reset*	Caster	
		Camber	
		Toe-in	
	Periodic M.V. inspection	Caster	
		Camber	
		Toe-in	
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	
		Toe-in (outside track-mm (in.))	
	Service reset*	Camber	-1° ± 20' (sportpackage max. -2°30')
		Toe-in	10' ± 10'
	Periodic M.V. inspection	Camber	
		Toe-in	

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

Electrical - Instruments and Equipment 944 S2

Speedometer	Type (analog, digital, std., opt.)	electric pointer instrument *)
	Trip odometer (std., opt., n.a.)	std.
EGR maintenance indicator		n.a.
Charge indicator	Type	electric pointer instrument, 45° segment
	Warning device (light, audible)	low-charge warning light
Temperature indicator	Type	electric pointer instrument, 45° segment
	Warning device (light, audible)	high-temperature warning light
Oil pressure indicator	Type	electric pointer instrument, 45° segment
	Warning device (light, audible)	low-level warning light
Fuel indicator	Type	electric pointer instrument, 45° segment
	Warning device (light, audible)	low-level warning light
Windshield wiper	Type (standard)	3-speed with variable interval wiping
	Type (optional)	n.a.
	Blade length	475 mm
	Swept area (cm ² (in. ²))	5630 (65,6 %)
Windshield washer	Type (standard)	electric pump
	Type (optional)	n.a.
	Fluid level indicator (light, audible)	n.a.
Rear window wiper, wiper/washer (std., opt., n.a.)		opt./n.a.
Horn	Type	2/two-tone-system
	Number used	
Other		

*) with double scale (mph/km/h)

MVMA Specifications Form

Vehicle Line 944
Model Year 1990 Issued _____ Revised (e) _____

METRIC (U.S. Customary)

SUPPLEMENTAL PAGE

944 S2 3,0 l

tachometer

central diagnostic warning device with warning letter for:

- brake lining wear
- parkbrake engaged
- parking lights
- brake fluid level

fasten seat belts warning lights

directional turn signal lights

high-beam indicator light

emergency flashers

oil level

fog lights

central warning light

MVMA Specifications Form

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METRIC (U.S. Customary)

Engine Description/Carb.
Engine Code

944 S2 3,0 l

Electrical - Supply System

Battery	Manufacturer	Deta/Varta
	Model, std., (opt.)	std.
	Voltage	12 V
	Amps at 0°F cold crank	300 A at -18° C (DIN 53539)
	Minutes-reserve capacity	
	Amp/hrs. - 20 hr. rate	63 Ah (sportpackage 36 Ah)
	Location	behind front end plate
Alternator	Manufacturer	
	Rating (idle/max. rpm)	14 V-115A-1610W A.C. (sportpackage 90 A - 1260 W)
	Ratio (alt. crank/rev.)	2.5:1
	Output at idle (rpm, park)	
Regulator	Optional (type & rating)	n.a.
	Type	Bosch EI 14Y4C

Electrical - Starting System

Start, motor	Manufacturer	
	Current drain at 0°F.	12 V-1.4 kW
	Power rating [kw (hp)]	
Motor drive	Engagement type	positive locking (reduction gear)
	Pinion engages from (front, rear)	from behind, pushing pinion to front

Electrical - Ignition System

Type	Electronic (std., opt., n.a.)	std. (Digital Engine Electronics - DME)
	Other (specify)	
Coil	Manufacturer	Bosch
	Model	no. 0221 188
	Current	Engine stopped - A
		Engine idling - A
Spark plug	Manufacturer	Bosch
	Model	WR 5 DC
	Thread (mm)	M 14x1,25
	Tightening torque [N-m (lb. ft)]	25-30 Nm
	Gap	0,7 mm + 0,1 mm
	Number per cylinder	1
Distributor	Manufacturer	Bosch
	Model	no. 1235 522

Electrical - Suppression

Locations & type	Resistor spark plugs 3 k spark plug connector 1 k distributor cap domes 1 k distributor rotor 1 k distributor cap center dome
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MVMA Specifications Form

Vehicle Models

944

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METRIC (U.S. Customary)

Body Type

944 S2 3,0 l

Body

Structure

Unitized body construction

front:

aluminium cross member, PUR soft nose

rear:

Al-alloy

Ø Bumper system
front - rear

Anti-corrosion treatment

Hot-dip galvanized steel sheet

Ø Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)		acrylic enamel
Hood	Material & mass	steel, sportpackage plastic
	Hinge location (front, rear)	counterbalance, gas cylinder assisted
	Type (counterbalance, prop)	bowden cable, inner
	Release control (internal, external)	n.a.
Trunk lid	Material & mass	glass
	Type (counterbalance, other)	counterbalance, gas cylinder assisted
	Internal release control (elec., mech., n.a.)	electric inner / release key outer sportpackage; n.a.
Hatch-back lid	Material & mass	
	Type (counterbalance, other)	
	Internal release control (elec., mech., n.a.)	
Tailgate	Material & mass	
	Type (drop, lift, door)	
	Internal release control (elec., mech., n.a.)	
Vent window control (crank, friction, pivot, power)	Front	n.a.
	Rear	n.a.
Window regulator type (cable, tape, flex, drive, etc.)	Front	integrated sheet steel frame, coil springs, foam
	Rear	foam padding
Seat cushion type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	n.a.
	Rear	see seat cushion
	3rd seat	n.a.
Seat back type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	see seat cushion
	Rear	foam padding
	3rd seat	n.a.

MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line 944
 Model Year 1990 Issued _____ Revised (e) _____

Body Type

944 S2 3,0 l

Restraint System

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

Glass	SAE Ref. No.	
Windshield glass exposed surface area (cm ² (in. ²))	S1	8.400
Side glass exposed surface area (cm ² (in. ²)) - total 2-sides	S2	6.200 (both sides)
Backlight glass exposed surface area (cm ² (in. ²))	S3	13.500
Total glass exposed surface area (cm ² (in. ²))	S4	28.100
Windshield glass (type)		tinted tempered glass, green
Side glass (type)		tinted tempered glass, green
Backlight glass (type)		tinted tempered glass, green

Lamps and Headlamp Locations

Headlamps	Description - sealed beam, halogen, replaceable bulb, etc.	sealed beam
	Shape	round
	Lo-beam type (2A1, 2B1, 2C1, etc.)	2 D1
	Quantity	
	Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.)	2 D1
	Quantity	

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	
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MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line 944
 Model Year 1990 Issued _____ Revised (e) _____

Body Type

944 S2 3,0 l

sportpackage

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

☒	Air conditioning (manual, auto. temp control)	std., fully automatic electronic control	manual heating
	Clock (digital, analog)	digital	
	Compass/thermometer	n.a.	
	Console (floor, overhead)	floor	
	Defroster, elec. backlight		
Electronic	Diagnostic monitor (integrated, individual)	see page 15a	
	Instrument cluster (list instruments)	see page 15a	
	Keyless entry	see page 15a	
	Tripminder (avg. spd., fuel)	see page 15a	
	Voice alert (list items)	see page 15a	
	Other	see page 15a	
	Fuel door lock (remote, key, electric)	n.a. (cap lockable with key)	
Lamps	Auto head on/off delay, dimming	n.a.	
	Cornering	n.a.	
	Courtesy (map, reading)	std.	
	Door lock, ignition		
	Engine compartment	std.	
	Fog	std.	
	Glove compartment	std.	
	Trunk	std.	
	Illuminated entry system (list lamps, activation)		
☒	Other		
Mirrors	Day/night (auto. man.)	manual	
	L.H. (remote, power, heated)	power, heated	manual
	R. H. (convex, remote, power, heated)	power, heated	manual
	Visor vanity (RH / LH, illuminated)	RH/LH	
☒	Navigation system (describe)	n.a.	
	Parking brake-auto release (warning light)	n.a.	

MVMA Specifications Form **METRIC (U.S. Customary)**

Vehicle Line 944
 Model Year 1990 Issued _____ Revised (e) _____

Body Type

944 S2 3,0 l

sportpackage

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

Power equipment	Deck lid (release, pull down)		
	Door locks (manual, automatic, describe system)		automatic manual
	Seats	2 - 4 - 6 way, etc.	std.: 2-way opt. 4-way/sports-seat racing-seat
		Reclining (R.H., L.H.)	std.
		Memory (R.H., L.H., preset, recline)	n.a.
		Lumber, hip, thigh, support	opt.
		Heated (R.H., L.H., other)	opt.
	Side windows		std. n.a.
	Vent windows		n.a. n.a.
	Rear windows		n.a. n.a.
Radio systems	Antenna (location, whip, w/shield, power)		windshield antenna n.a.
	Standard		
	Optional	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	AM, FM, stereo, tape compact disc, graphic equalizer n.a.
	Speaker (number, location)		2-front, 2-rear n.a.
Roof open air fixed (flip-up, sliding, "T")		opt. power flip up, detachable n.a.	
Speed control device		opt. n.a.	
Speed warning device (light, buzzer, etc.)		n.a. n.a.	
Tachometer (rpm)		std. std.	
Telephone system (describe)			
Theft deterrent system		std. n.a.	

MVMA Specifications Form

Vehicle Models

944

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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.	944 S2 3,0 1	sportpackage
Width			
Tread (front)	W101	1477	
Tread (rear)	W102	1451	
Vehicle width	W103	1735	
Body width at Sg RP (front)	W117	1724	
Vehicle width (front doors open)	W120	3424	
Vehicle width (rear doors open)	W121	n.a.	
Front fender overall width	W106		
Rear fender overall width	W107		
Tumble-home (deg.)	W122		
Vehicle width including mirrors			
Length			
Wheelbase	L101	2400	
Vehicle length	L103	4289	
Overhang (front)	L104	860	
Overhang (rear)	L105	1029	
Upper structure length	L123	n.a.	
Rear wheel C/L "X" coordinate	L127	n.a.	
Cowl point "X" coordinate	L125	n.a.	
Front end length at centerline	L126		
Rear end length at centerline	L129		
Height*			
Passenger distribution (front/rear)	PD1,2,3	2/2	
Trunk/cargo load		n.a.	
Vehicle height	H101	1275 (DIN curb weight)	adjustable
Cowl point to ground	H114	878	
Deck point to ground	H138	n.a.	
Rocker panel-front to ground	H112	163	
Bottom of door closed-front to ground	H133	n.a.	
Rocker panel-rear to ground	H111	194	
Bottom of door closed-rear to ground	H135	n.a.	
Windshield slope angle	H122		
Backlight slope angle	H121		
Ground Clearance*			
Front bumper to ground	H102	502	
Rear bumper to ground	H104	527	
Bumper to ground (front at curb mass (wt.))	H103		
Bumper to ground (rear at curb mass (wt.))	H105		
Angle of approach (degrees)	H106	14° 05'	
Angle of departure (degrees)	H107	17° 30'	
Ramp breakover angle (degrees)	H147		
Axle differential to ground (front / rear)	H153		
Min. running ground clearance	H158	120 (at perm. total weight)	adjustable
Location of min. run. grd. clear.			

* All vehicle height and ground clearances 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.

MVMA Specifications Form

Vehicle Models 944
Model Year 1990 Issued _____ Revised (e) _____

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

Body Type 944 S2 3,0 I

Front Compartment

SAE
Ref.
No.

Sg RP front, "X" coordinate	L31	1530
Effective head room	H81	970
Max. eff. leg room (accelerator)	L34	1144
SgRP to heel point	H30	143
SgRP to heel point	L53	
Back angle	L40	25°
Hip angle	L42	
Knee angle	L44	
Foot angle	L46	
Design H-point front travel	L17	
Normal driving & riding seat track trvl.	L23	
Shoulder room	W3	1402
Hip room	W5	1338
Upper body opening to ground	H50	1159
Steering wheel maximum diameter*	W9	
Steering wheel angle	H18	16° 15'
Accel. heel pt. to steer. whl. ctr	L11	
Accel. heel pt. to steer. whl. ctr	H17	
Steering wheel to C/L of thigh	H13	
Steering wheel torso clearance	L7	
Headlining to roof panel (front)	H37	
Undepressed floor covering thickness	H67	

Rear Compartment

Sg RP Point couple distance	L50	520
Effective head room	H63	826
Min. effective leg room	L51	605
Sg RP (second to heel)	H31	279
Knee clearance	L48	260
Compartment room	L3	385
Shoulder room	W4	1384
Hip room	W6	371 1)
Upper body opening to ground	H51	1160
Back angle	L41	15°
Hip angle	L43	
Knee angle	L45	
Foot angle	L47	
Headlining to roof panel (second)	H38	
Depressed floor covering thickness	H73	

Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	184/282 (according to VDA) 2)
Liftover height	H195	899

Interior Volumes (EPA Classification)

Vehicle class		minicompact
Interior volume index (cu. ft.)		
Trunk / cargo index (cu. ft.)		

* See Page 14.

- 1) up-to central tunnel!
- 2) seat back upright(folded, measured at lower window edge level

MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

Vehicle Line 944

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Revised (e)

Body Type

944 S2 3,0 l

SAE
Ref.
No.

Station Wagon - Third Seat

Seat facing direction	SD1	
Sg RP couple distance	L85	
Shoulder room	W85	
Hip room	W86	n.a.
Effective leg room	L86	
Effective head room	H86	
Sg RP to heel point	H87	
Knee clearance	L87	
Back angle	L88	
Hip angle	L89	
Knee angle	L90	
Foot angle	L91	

Station Wagon - Cargo Space

Cargo length (open front)	L200	n.a.
Cargo length (open second)	L201	n.a.
Cargo length (closed front)	L202	1057
Cargo length (closed second)	L203	719
Cargo length at belt (front)	L204	1189
Cargo length at belt (second)	L205	783
Cargo width (wheelhouse)	W201	914
Rear opening width at floor	W203	1200
Opening width at belt	W204	1200
Min. rear opening width above belt	W205	1150
Cargo height	H201	513
Rear opening height	H202	513
Tailgate to ground height	H250	657
Front seat back to load floor height	H197	161
Cargo volume index [m ³ (ft. ³)]	V2	n.a.
Hidden cargo volume index [m ³ (ft. ³)]	V4	n.a.
Cargo volume, index-rear of 2-seat	V10	

Hatchback - Cargo Space

Cargo length at front seatback height	L208	
Cargo length at floor (front)	L209	
Cargo length at second seatback height	L210	
Cargo length at floor (second)	L211	
Front seatback to load floor height	H197	
Second seatback to load floor height	H198	
Cargo volume index [m ³ (ft. ³)]	V3	
Hidden cargo volume index [m ³ (ft. ³)]	V4	
Cargo volume index-rear of 2-seat	V11	

Aerodynamics*

Wheel lip to ground, front		
Wheel lip to ground, rear		
Frontal area [m ² (ft. ²)]	m ²	1.89
Drag coefficient (Cd)		0.33

* EPA Loaded Vehicle Weight, Loading Conditions

*) measured with 1 outer mirror included

MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line 944
 Model Year 1990 Issued _____ Revised (e) _____

Body Type

Vehicle Fiducial Marks

Fiducial Mark
Number

Define Coordinate Location

Front

n.a.

Rear

Fiducial
Mark
Number

Front	W21°	
	L54°	
	H81°	
	H161°	
	H163°	

Rear	W22°	
	L55°	
	H82°	
	H162°	
	H164°	

* Reference - SAE Recommended Practice, J162, Motor Vehicle Fiducial Marks.

MVMA Specifications Form

Vehicle Line 944

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METRIC (U.S. Customary)[illegible]**SHIPPING MASS** (weight) = Curd Weight Less Kg. (lbs.).

* 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.

METRIC (U.S. Customary)

Vehicle Line 744
Model Year 1990 Issued _____ Revised (e) _____

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