REPARATURLEITFADEN WORKSHOP MANUAL MANUEL DE RÉPARATION



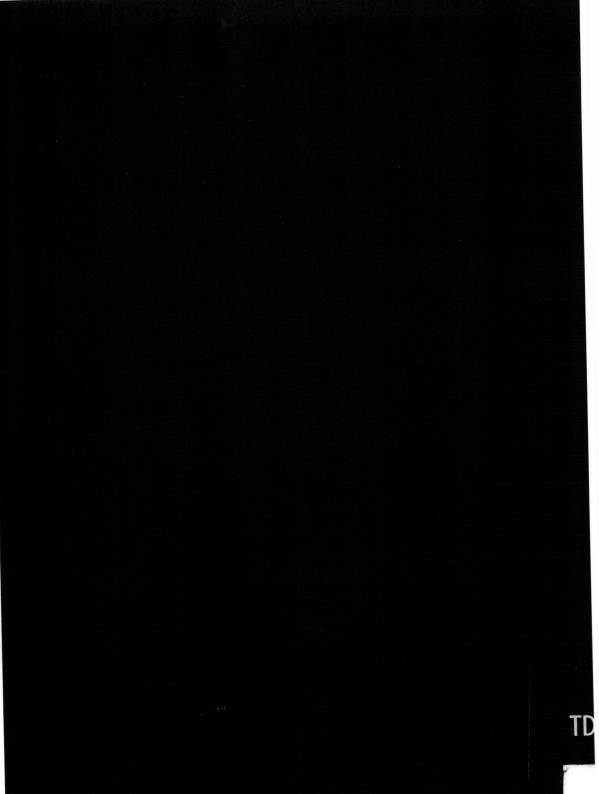
VOLUME

SECTIONS INDEX

B Body

- L Lights and Electrical System
- M Maintenance and Lubrication
- TD Technical Data

TRA Technical Remarks, Accessories



TECHNICAL DATA

Vehicle Type: 911

Engine Type: officially - 2000 internally - 901/01

Engine

8	
Туре	air cooled four stroke cycle Otto engine, unitized with clutch, transmission, and differential to form one assembly at rear of vehicle
Number of cylinders	6
Cylinder arrangement	horizontally opposed six, three cylinders in each bank
Bore	80 mm (3.15 in.)
Stroke	66 mm (2, 60 in.)
	1991 cc (121,5 cu.in.)
Total piston displacement	9:1
Compression ratio	
Total weight (dry)	approx. 84 kp (185 lbs)
Crankcase	two-piece, light alloy
Cylinders	individual
Cylinder material	light alloy
Cylinder bore,	cast iron coat
Cylinder heads	individual for each cylinder, light alloy
Valve seat inserts	shrunk in
Valve guides	shrunk in, special bronze
Spark plug seat inserts	helicoil
Crankshaft	forged
Crankshaft bearings	8 plain journal bearings
Main bearing 1 thru 7	split inserts, tri-metal
Main bearing 8	one-piece sleeve, hard lead
Main bearing 1	guide bearing
Connecting rods	forged steel, H-section shank
Big end bearings	tri-metal
Piston pin bushings	pressed in, bronze
Pistons	light alloy
Piston rings	2 compression rings, 1 oil scraper
9	OHC, 1 cam per cylinder bank
Valve timing	cast; 3 plain bearings directly in camshaft housing
Camshafts	by chains
Camshaft drive	,
Valve arrangement	overhead
Valve springs	2 coil springs per valve
Valve clearance (adjust cold):	0.10 (004 :-)
intake	0.10 mm (.004 in.) measure between valve and rocker arm
exhaust	0.10 mm (.004 in.)
Valve timing with 1 mm(,040in,)	
valve clearance:	
intake opens before TDC	290
intake closes after BDC	39°
exhaust opens before BDC	39°
exhaust closes after TDC	190
Cooling	air cooled by blower on generator shaft
Cooling blower drive	off crankshaft by V-belt
Blower air flow	1390 l/sec at 6100 rpm (49 cfs at 6100 rpm)
Lubrication	forced feed, dry sump
Eublication	•

oil cooler on crankcase in blower air stream Oil cooling..... Oil pressure indication electrically controlled Ignition type..... battery TK 12A 10 mV Ignition coil type..... Distributor type Bosch JFR 6 Contact breaker gap 0.4 mm (.016 in.) Ignition firing point TDC 1-6-2-4-3-5 Firing order Bosch W 250 P 21 14 x 1.25 mm Electrode gap..... 0.35 mm (.014 in.) Clutch single plate, dry, M 215 $\ensuremath{\mathrm{K}}$ - Fichtel and Sachs Туре Pedal free travel approx. 20 mm (.8 in.) 203 cm² (31.5 sq.in.) Total facing area..... Fuel System 6 overflow carburetors Solex, type 40 PI from engine No. 907 001 on 2 triple throat carburetors Weber, type 40 IDA 3 C and 3 C 1 intake silencer with micronic filter cartridge Carburetors..... Air cleaner..... Fuel pumps..... 1 electric and 1 mechanical twin pump Delivery pressure: 0.22 to 0.30 atm (3.23 to 4.41 psi) electric pump..... 0.18 to 0.22 atm (2.65 to 3.23 psi) mechanical pump..... Fuel screen..... in fuel tank Fuel filter..... in fuel pumps Electrical System 12 Volt Operating voltage 12 V / 84 Ah Battery..... Bosch K1-14V 35A Generator Bosch VDN 1 Voltage regulator Crankshaft/generator ratio..... approx. 1:1.4 Bosch EB (L) 12V 0, 8 (AL 50/20 W 12) Starter motor

45/40 Watts each (left-hand drive countries)

45/40 Watts each

4 Watts each

2 headlamps, high and low beam:

2 clearance lights:

with symmetric low beam ...

with asymmetric low beam ..

in headlamps for all countries except USA; in directional blinkers for USA......

2 tail lights (in directional blinker and stop light units	5 Watts each 18 Watts each 4 Watts each 25 Watts 10 Watts each 2 Watts
Transmission and Rear Axle	
Type	integral 5-speed transmission and differential 5 forward speeds with Porsche servo-synchromesh $i=3.1473$ mechanical rod, floor mounted shift lever spiral bevel gears, bevel gear differential, limited slip differential optional $i=4.428$
Chassis Frame Front wheel suspension Rear wheel suspension Rear wheel springing Rear wheel springing Attitude of rear radius arms Front shockabsorbers Rear shockabsorbers Stabilizer Steering Steering Steering damper Steering damper Steering wheel turns lock-to-lock Smallest turning circle (diameter) Toe-in, front	welded sheetmetal box-section frame unitized with body independently suspended on struts and transverse arms independently suspended on longitudinal links, powered over half-axles 1 round longitudinal torsion bar per wheel 1 round transverse torsion bar per wheel Coupe = 30° (nominal inclination) acting as suspension struts telescopic, double-action front, transverse ZF rack and pinion with hydraulic damper 1:16.5 overall hydraulic, double-acting approx. 2,8 approx. 10.3 m (33.8 ft) + 15' to + 20' per wheel under load, steering box in center position 0°

Camber, front Camber, rear Steering axis inclination. Caster Angle variation each side. Wheel rims Wheels. Tires. Nominal tire pressures: front rear Service brakes (foot brake) Service brake actuation. Total effective brake area Front brake disc diameter Rear brake disc diameter Parking brake. Chassis lubrication	0° + 20' - 1° 15' + 20' 1° 56' 6° 45' + 45' 40' until 1° 10' (curve inside wheel set to 20°) drop center rims 4 1/2 J x 15 perforated steel discs 165 HR 15 normal highway driving 1. 8 atm (26.5 psi) high speed expressways 2.0 atm (29.4 psi) normal highway driving 2.0 atm (29.4 psi) high speed expressways 2.2 atm (32.3 psi) discs hydraulic 185 cm² (28.7 sq.in.) 282 mm (11.1 in.) 285 mm (11.2 in.) mechanical, acting on rear wheels individual grease nipples
Body	
Doors	All-steel body unitized with frame, declining front contour, fastback rear in Coupes 2 doors hinged on front posts 1050 mm (41, 3 in.) average approx. 70° one-piece, constant radius crank lowered, with vent panel hinged, with position lock one-piece, curved safety glass electric, 2 parallel wiper arms hinged at rear, with hydraulic prop, opened from passenger compartment hinged at front, with hydraulic prop, opened from passenger compartment 2/2 2 fully reclining bucket-type seats 2 occasional seats, folding forward to form luggage platforms speedometer with odometer and trip mileage counter, clearance light control lamp illuminated electric tachometer with high beam indicator and directional indicator pilot lamps; combination instrument cluster including oil temperature gauge, oil pressure gauge, and generator control lamp - illuminated; clock; 3-position windshield wiper switch on steering column; ignition/starter switch, light switch

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cigar lighter, ashtray, locking glove compartment, hand grip;
Instrument panel (cont'd) ......
                               blinker-dimmer-flasher switch on steering column, steering wheel
                                with signal horn button
Interior trim:
                                rubber mats
  floor.....
                                front with rubber padding, rear with carpets
  center tunnel .....
                                carpet covered
  forward side panels .....
                                upholstered
  doors and side panels.....
                                leatherette
  headlining.....
                                hot air, remotely controlled, 2 defroster nozzles at windshield,
  heating.....
                                2 hot air outlets in side members below doors
                                fresh air outlets thru defroster nozzles and outlets in side members
Ventilation .....
                                below doors
Miscellaneous:
                                front and rear with 2 overriders each
   bumpers .....
                                concealed under locked front lid
   spare tire.....
                                under front lid
   fuel tank .....
                                under front lid
   tools and accessories ......
Weights and Measures
                                2211 mm (87.05 in.)
 Wheelbase .....
                                1337 mm (52, 64 in.) from chassis No: 305 101 1353 mm (53, 23 in.)
 Track, front.....
                                1317 mm (51, 85 in.) from chassis No: 305 101 1321 mm (52, 03 in.)
 Track, rear .....
                                4163 mm (163, 9 in.)
 Length .....
                                1610 mm (63, 39 in.)
 Width .....
                                 1320 mm (51, 97 in.)
 Height (empty), Coupe......
                                  865 mm (34.1 in.)
 Body overhang, front.....
                                 1055 mm (41.5 in.)
 Body overhang, rear .....
                                  150 mm ( 5,9 in.)
 Ground clearance, loaded ......
                                  140 mm ( 5.5 in.)
 Chassis clearance .....
                                 1080 kp (2380 lbs)
 Empty weight (DIN) Coupe .....
 Maximum permissible weight
                                 1400 kp (3086 lbs)
   (total).....
                                  600 kp (1323 lbs)
 Maximum axle load, front .....
                                  840 kp (1852 lbs)
 Maximum axle load, rear ......
                                 approx. 184 kp (406 lbs)
 Engine weight, complete (w/o oil)
 Transmission weight, complete
                                 approx. 50 kp (110 lbs)
    (w/ oil) .....
 Capacities
                                  approx. 62 liters incl. 6 liters reserve
 Fuel tank .....
                                  (16.4 US gals incl. 1.6 gals reserve)
                                  approx. 9 liters premium HD oil, summer SAE 30,
  Engine and oil tank .....
                                  winter SAE 20 (9.5 US qts)
                                  approx. 2.5 liters Hypoid SAE 90 (2.6 US qts)
  Transmission and differential....
                                  approx. 0.2 liters (7 fl. oz)
  Brake fluid reservoir .....
                                  approx. 2.0 liters (2.1 US qts)
  Windshield washer reservoir .....
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Performance

Horsepower	130 DIN/HP (148 SAE/HP) at 6100 rpm 17.8 mkp (128.7 lbs/ft) at 4200 rpm 13.4 m/sec (44 ft/sec)
Mean working pressure at max. power Minimum fuel consumption Maximum speed Specific power output	11.3 kp/cm ² (161 psi) 225 g/PSh at 3400 rpm 210 kmh (130 mph) 65 DIN-HP/liter (1.22 SAE-HP/cu.in.)
Power/weight ratio (road condition) Road speed in gears (theoretical)	8.8 DIN kp/HP (17 lbs/SAE HP) see Transmission Diagram, Group R

Fuel Consumption

Nominal fuel consumption	
(DIN 70030)	9.6 liters/100 km (24.5. mpg US)
Dequired fuel octane rating	approx. 98 - 100 ROZ

SUPPLEMENTS

GROUP **TD**TECHNICAL DATA

TECHNICAL DATA

Vehicle Type: 911 S

Engine Type: 2000 S

Engine

Туре	air cooled four-stroke cycle Otto engine, unitized with clutch, transmission, and differential at rear of vehicle
Bore Stroke Total piston displacement	6 horizontally opposed six, three cylinders in each bank 80 mm (3.15") 66 mm (2.60") 1991 cc (121.5 cu.in)
Compression ratio	approx. 184 kp (406 lbs)
Cylinders Cylinder material	removable individual units Biral (cast iron liner with light alloy cooling fin acket) light alloy, individual for each cylinder
Cylinder heads	shrunk in special bronze, shrunk in
Spark plug seat inserts	Helicoil forged 8 plain journal bearings
Main bearings 1 thru 7 Main bearing 8	tri-metal split inserts hard lead sleeve thrust bearing
Main bearing 1 Connecting rods Big end bearings	soft nitrated forged steel tri-metal
Piston pin bushings	Kuprodur, machined forged light alloy, box-shaped 2 compression rings, 1 oil scraper
Valve timing	cast steel, in 3 plain bearings in base metal of camshaft housing
Valve arrangement	overhead
Valve clearance (adjust cold): intake exhaust	0.10 mm (.004") 0.10 mm (.004") measured between valve and rocker arm
Valve timing with 1 mm (.040*) valve clearance: intake opens before TDC	29 ⁰
intake closes after BDC	390 390
Cooling blower drive	air cooled by blower on generator shaft off crankshaft by V-belt
Blower air flow	1390 l/sec 6100 rpm (49 cfs 6100 rpm) forced feed, dry sump

Oil cooling oil cooler on crankcase in air stream of blower Oil pressure indication electrical Ignition type battery Ignition coil type TK 12 A 10mV Distributor type Bosch 0231159002, yellow nomenclature plate Contact breaker gap 0.4 mm (.016") Firing order 1-6-2-4-3-5 Spark plug type Bosch W 265 P 21 Electrode gap 0.35 mm (.014") Clutch Total facing area 203 cm² (31.5 sq.in.) Fuel system Carburetors Weber 40 IDA (S), or 40 IDS 3 C and 3 C 1, respectively Air cleaner induction silencer with micronic filter cartridge Delivery pressure 0.22 to 0.30 atm (3.23 to 4.41 psi) Delivery rate 900 cc/min (30.4 fl.oz.) Fuel screen in fuel tank Fuel filter in fuel pump Electrical System Battery rating 12 V, 45 Ah Alternator Bosch Kl-14 V 35 A Voltage regulator Bosch VDN 1 Crankshaft/alternator rpm ratio approx. 1:1.4 Starter motor Bosch EB (L) 12 V 0.8 (AL 50/20 W 12) 2 headlamps, high and low beam: 2 clearance lights: in headlamps for all countries except USA; in directional blinkers for USA. 4 Watts each

2 tail lights in blinker/stop light units 2 front directional blinkers 2 combination blinker/stop lights 2 license plate lights 1 backup light 2 interior lights (Coupe) Tachometer illumination High beam indicator Blinker indicator Multi-gauge cluster illumination Alternator control lamp Oil pressure control lamp Speedometer illumination	5 Watts each 18 Watts each 18 Watts each 4 Watts each 25 Watts 10 Watts each 2 Watts
Transmission and Rear Axle	
Type Transmission Gear ratios Reverse gear ratio Gearshift mechanism Differential drive Reduction ratio	integral transmission and differential 5 forward speeds with Porsche servo-synchromesh see transmission diagram, Group R i = 3.1473 mechanical rod, floor mounted shift lever spiral bevel gears, bevel gear differential, limited slip differential optional i = 4.428
Chassis	
Frame	welded sheetmetal box-section underbody unitized with body independently suspended on struts and transverse arms independently suspended on longitudinal links with half-axle drive 1 round longitudinal torsion bar per wheel 1 round transverse torsion bar per wheel Coupe = 30° nominal inclination acting as suspension struts telescopic, double-action front, transverse mounted ZF rack and pinion 1.:16.5 overall approx. 2.8
Smallest turning circle diameter Toe-in, front	approx. 10.3 m (33.8') + 40' (preloaded with 15 kp or 33.1lbs)

rear	0 ± 20' - 1° 6' 10° 56' 7° 45' 40' to 1° ± 10' (increasing to forged light alloy drop center rims 4 1/2 J x 15 165 HR 15 normal highway speeds	pe - in) 1.8 atm (26.5 psi)
rear	fast driving (Autobahn) normal highway speeds fast driving (Autobahn) discs hydraulic 185 cm ² (28.7 sq.in.)	2.2 atm (32.3 psi) 2.0 atm (29.4 psi) 2.2 atm (32.3 psi)
Total effective brake area Brake disc diameter, front rear Parking brake Chassis lubrication	185 cm ⁻ (28.7 sq. iii.) 282 mm (11.1"), vented disc 285 mm (11.2"), vented disc mechanical, acting on rear w individual grease nipples	
Body		
Туре	All-steel body unitized with fastback rear in Coupe	frame, declining front contour,
Doors door width door swing angle Windows: windshield door windows	2 doors hinged on front posts 1050 mm (41.3") average approx. 70° one-piece, constant radius crank-lowered, with vent par	nel
rear side windows rear window type of glass windshield wipers Compartment lids:	hinged, with position lock one-piece, curved safety-glass electrical, 2 parallel wiper a	
frontrear	compartment	ic prop, opened from passenger
Seats: seating capacity front seats rear seats Instrument panel	illuminated speedometer wit and clearance light control l illuminated electric tachome directional indicator pilot la multi-gauge cluster with oil	orward to form luggage platforms hodometer and trip mileage counter amp; eter with high beam indicator and mps; temperature gauge, oil pressure of lamp (illuminated); clock; switch on steering column;

Instrument panel (cont*d)	cigar lighter, ashtray, locking glove compartment, hand grip, blinker-dimmer-flasher switch on steering column, steering wheel with signal horn button
Interior trim: floor center tunnel forward side panels doors and side panels headlining heating Ventilation	carpeted rubber padded front, carpeted rear carpeted upholstered leatherette hot air, remotely controlled, 2 defroster nozzles at windshield, 2 hot air outlets in side members below doors fresh air outlets thru defroster nozzles and outlets in side members below doors
Miscellaneous; bumpers	front and rear with 2 overriders each concealed under locked front lid beneath luggage compartment in luggage compartment
Weights and Measures	
Wheelbase Track, front rear Length Width Height (empty), Coupe Body overhang, front rear Ground clearance, loaded Chassis clearance Empty weight (DIN), Coupe Maximum permissible weight (total) Maximum axle load, front rear Engine weight, complete (w/o oil) Transmission weight, complete, with oil	2211 mm (87.05") 1353 mm (53.27") 1325.4 mm (52.18") 4163 mm (163.9") 1610 mm (63.39") 1320 mm (51.97") 865 mm (34.06") 1055 mm (41.54") 150 mm (5.91") 140 mm (5.51") 1030 kp (2271 lbs) 1400 kp (3086 lbs) 600 kp (1323 lbs) 840 kp (1852 lbs) 184 kp (406 lbs)
Capacities	
Fuel tank Engine and oil tank Transmission and differential Brake fluid reservoir Windshield washer reservoir	approx. 62 liters incl. 6 liters reserve (16.4 US gals incl 1.6 gals reserve) approx. 9 liters premium HD oil (9.5 US qts) summer SAE 30, winter SAE 20 approx. 2.5 liters Hypoid SAE 90 (2.6 US qts) approx. 0.2 liters (7 fl.oz.) approx. 2.0 liters (2.1 US qts)

Performance

Fuel Consumption

Vehicle Type: 911 T

Engine Type: 2000T

Engine

Туре	air cooled four stroke cycle Otto engine, unitized with clutch, transmission, and differential, forming a power train at rear of vehicle
Number of cylinders Cylinder arrangement Bore Stroke Total piston displacement Compression ratio Total weight, dry Crankcase Cylinders Cylinder material Cylinder heads Valve seat inserts	horizontally opposed six, three cylinders in each bank 80 mm (3.15") 66 mm (2.60") 1991 cc (121.5 cu.in.) 8.6:1 approx. 184 kg (406 lbs) two piece, light alloy individual grey cast iron individual for each cylinder, light alloy shrunk in
Valve guides Spark plug seats Crankshaft Crankshaft main bearings	shrunk in, special bronze helicoil inserts forged
Main bearings 1 - 7 Main bearing 8 Main bearing 1 Connecting rods Big end bearings Piston pin bushings	8 plain journal bearings split inserts, tri-metal one piece sleeve, hard lead thrust bearing forged steel tri-metal machined Kuprodur
Pistons Piston rings Valve timing Camshafts Camshaft drive	die cast (Autotherm.) 2 compression rings, 1 oil scraper OHC, 1 cam per cylinder bank cast steel, in 3 plain bearings directly in camshaft housing by chains
Valve arrangement	overhead 2 coil springs per valve, or 1 coil spring per valve, respectively 0.10 mm (.004") measure between valve and rocker arm
Valve timing with 1 mm (.040") valve clearance:	0.10 mm (.004")
intake opens intake closes exhaust opens exhaust closes Cooling Cooling blower drive	15° BTC 29° ABC 41° BBC 5° BTC air cooled by blower on generator shaft off crankshaft by V-belt 1320 ltr/sec (47 cfs) at 5800 rpm
Lubrication	forced feed, dry sump

oil cooler on crankcase in blower air stream Oil cooling electrically controlled Oil pressure indication Ignition type battery TK 12A 10 mV Ignition coil type Marelli S112Ax Distributor type 0.4 mm \pm 0.03 mm (.016" \pm .001"), or dwell angle of 40° \pm 3° Contact breaker gap 350 BTC at 6000 rpm Ignition firing point 1-6-2-4-3-5 Firing order Bosch W 230 T 30, Beru 240/14/3 Spark plugs Spark plug threads 14x1.25 mm 0.6 mm (.024") Electrode gap Clutch single plate, dry, M215K Fichtel + Sachs Туре Pedal free travel approx. 20 mm (.8") 203 cm² (31.5 sq.in.) Total facing area Fuel System Weber Type 40 IDT 3C and 40 IDT 3C1 Carburetors Air cleaner intake silencer with micronic filter cartridge 1 electric fuel pump Fuel pump Fuel delivery pressure 0.28 - 0.33 atm (4.1 - 4.9 psi) for Bendix pump 0.28 - 0.30 atm (4.1 - 4.4 psi) for Hardi pump Fuel delivery rate 900 cc (30.4 fl. oz.) per minute filtering screen in fuel tank and pump Fuel filtering Electrical System Operating voltage 12V/45Ah Battery Motorola 14V 490W Alternator Voltage regulator Crankshaft/generator ratio ... approx. 1:1.4 Starter motor Bosch EB (L) 12V 0.8 (AL 50/20 W 12) 2 headlamps, high and low beams: with symmetric low beams .. 45/40 watts each (left hand drive countries only) w/asymmetric low beams ... 45/40 watts each 2 clearance lights: in headlamps for all countries except USA; in directional blinkers for USA 4 watts each

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2 tail lights (in blink/stop light units)	5 watts each
2 front directional blinkers	18 watts each
2 blink/stop light units	18 watts each
2 license plate light	4 watts each
1 backup light	25 watts
Interior lights:	
2 in Coupe models	10 watts each
Tachometer illumination	2 watts
High beam indicator	2 watts
Blinker control lamp	2 watts
Combination instrument cluster	
ıllumination	2 watts
Alternator control lamp	2 watts
Oil pressure indicator lamp	2 watts
Speedometer illumination	2 watts
Transmission and Rear Axle	
Туре	integral transmission and differential
Transmission	4 forward speeds with Porsche synchronization,
	5 speed transmission optional
Gear ratios	See Transmission Diagram, Group R
Reverse gear ratio	i = 3.1473
Gearshift mechanism	mechanical rod, floor mounted shift lever
Rear axle drive	spiral bevel gears, bevel gear differential,
	limited slip differential optional
Reduction ratio	i = 4,428
Chassis	
Frame	welded sheetmetal box section frame unitized with body
Front wheel suspension	independently suspended on struts and transverse arms
Rear wheel suspension	independently suspended on triangulated links, with half-axle
	drive
Front wheel springing	1 round longitudinal torsion bar per wheel
Rear wheel springing	1 round transverse torsion bar per wheel
Rear radius arm attitude	Coupe = nominal inclination 390
Front shockabsorbers	acting as suspension struts
Rear shockabsorbers	telescopic, double-action
Stabilizer	front, transverse mounted
Steering type	ZF rack and pinion
Steering ratio	1:16.5 overall
Steering wheel turns lock-to-lock	approx. 2.8
Smallest turning circle	approx. 10.5 m (34.4 ft)
Toe-in, front	± 00
rear	0° ± 10'

Camber, front rear Steering axis inclination Caster Angle variation Wheels Wheel rim type Tires Nominal tire pressures: front rear Type service brake Service brake actuation Total effective brake area Brake disc diameter, front rear	0° ± 20' -50' ± 20' 10° 55' 6° 45' ± 45' 0° ± 30' (increasing toe-in) Steel drop center, 5 1/2 J x 15 1.8 atm (26.5 psi) 2.0 atm (29.4 psi) disc hydraulic 185 cm ² (28.7 sq. in.) 282,5 mm (11.12") 286,0 mm (11.26")
Parking brake	mechanical, acting on rear wheels
Body	
Doors door width door swing angle Windows: windshield door windows rear side windows rear window type of glass windshield wipers Compartment lids: front rear Seats: seating capacity front seats rear seats Instruments panel	all-steel body unitized with frame, declining front contour, fastback rear in Coupe 2 doors hinged on front posts 1050 mm (41.3") overall approx. 70° one-piece, constant radius cranked, with vent panel hinged, with position lock one-piece, curved safety glass electric, 2 parallel wiper arms hinged at rear, with hydraulic prop, opened from passenger compartment hinged at front, with hydraulic prop, opened from passenger compartment 2/2 2 fully reclining bucket-type seats 2 occasional seats, folding forward to form luggage platforms illuminated speedometer with odometer and trip mileage counter, clearance light control lamp; illuminated electric tachometer with high beam indicator lamp, and directional blinker indicator lamp; illuminated oil temperature gauge with built in oil pressure and generator control lamps; illuminated fuel gauge with low-fuel indicator lamp; illuminated clock; windshield wiper switch (3-position) on steering post, ignition switch, light switch.

	011 1	
Instrument panel (cont'd)	cigarette lighter, ashtray, locking glove compartment, hand grip, blinker-dimmer-flasher switch on steering column, steering wheel with signal horn key (horn button for USA)	
Interior trim:		
floor	lined with rubber mats	
center tunnel	carpet lined	
forward side panels	carpet lined	
doors and side panels	upholstered	
headlining	plastic lined	
heating	remotely controlled hot air heating, 2 defroster nozzles at	
	windshield, 2 hot air outlets in side members below doors	
Ventilation	fresh air outlets thru defroster nozzles and outlets in side members below doors	
Miscellaneous:		
bumpers	front and rear, with 2 overriders each	
spare wheel	concealed under locked front lid	
fuel tank	beneath luggage compartment	
tools and accessories	in luggage compartment	
Weights and Measures		
Wheelbase	2211 mm (87.05")	
Track, front	1367 mm (53,82")	
rear	1335 mm (52, 56")	
Length	4163 mm (163, 90")	
Width	1610 mm (63, 39")	
Height, empty	1320 mm (51.97")	
Body overhang, front	865 mm (34, 06")	
rear	1055 mm (41,54")	
Ground clearance, loaded	150 mm (5.91")	
Chassis clearance	140 mm (5, 51")	
Empty weight (DIN)	up to 31 Nov 67: 1080 kp (2376 lbs)	
	from 1 Dec 67: 1020 kp (2244 lbs)	
Total permissible weight	1400 kp (3086 lbs)	
Maximum axle load, front	600 kp (1323 lbs)	
rear	840 kp (1852 lbs)	
Engine weight, complete but without oil	approx. 184 kp (406 lbs)	
Transaxle weight, complete with oil	approx. 50 kp (110 lbs)	
Capacities		
Fuel tank	approx. 62 liters incl. 6 liters reserve (16.4 US gals incl 1.6	
	gals reserve)	
Engine and oil tank	approx. 9 liters premium HD oil (9.5 US qts)	
	summer SAE 30, winter SAE 20	
Transaxle	approx. 2.5 liters Hypoid SAE 90 (2.6 US qts)	
Brake fluid reservoir	approx. 0.2 liters (7 fl. oz.)	
Windshield washer reservoir	approx. 2.0 liters (2.1 US qts)	

Performance

Horsepower rating	110 DIN HP (125 SAE HP) at 5800 rpm 16 mkp (131 ft-lb) at 4200 rpm 12.8 m/sec 8.6 kp/cm ² (122 psi) 210 g/HPh at 3300 rpm 200 kmh (125 mph) 55 DIN HP/liter (1.02 SAE HP/cu, in.) 10.4 kp/DIN HP (20.2 lbs/SAE HP) see transmission diagram, Group R
Fuel Consumption	
Nominal fuel consumption	9 ltr/100 km (26 US mpg) 96 ROZ (research octane rating)

TECHNICAL DATA

Vehicle type: 911 T

Engine type: 911 T

Engine	
Туре	Air cooled four cycle gasoline engine in unit with clutch, trans mission and differential to form a single assembly at rear of vehicle
Number of cylinders Cylinder arrangement Bore Stroke Total piston displacement	6 Horizontally opposed, three cylinders in each bank 80 mm (3.15") 66 mm (2,60") 1991 cc 8,6:1
Compression ratio Compression test pressure Total dry weight Crankcase Cylinders	9 - 11 kp/cm ² (128 - 157 psi) after 12 compression strokes Approx. 184 kg (406 lbs) Two-part, light alloy Individual
Cylinder material Cylinder heads Valve seat inserts Valve guides	Grey cast iron Individual for each cylinder, light alloy Shrunk in Shrunk in, special bronze Helicoil inserts
Spark plug seats Crankshaft Crankshaft main bearings Main bearings 1 thru 7 Main bearing 8	Forged 8 plain bearings Split half shells, tri-metal One piece, hard lead
Main bearing 1 Connecting rods Big end bearings Piston pin bushings	Thrust bearing Forged steel Tri-metal Kuprodur, machined
Pistons	Die cast, Autotherm. 2 compression rings, 1 oil scraper OHC, 1 camshaft per cylinder bank Cast steel, 3 plain bearings directly in camshaft housing
Camshaft drive	Chains Overhead 2 coil springs per valve
Inlet	0.10 mm (0.004") - measure between valve and rocker arm 0.10 mm (0.004")
Inlet opens before TDC Inlet closes after BDC Exhaust opens before BDC Exhaust closes before TDC	15° 29° 41° 5°
Cooling	Air cooled by axial blower on generator shaft From crankshaft by V-belt

Dry sump, forced feed Lubrication Oil cooler on crankcase in blower air stream Oil cooling Electrically controlled Oil pressure gauge Battery and coil Ignition TK 12 A 10 mV Coil Marelli S 112 A x Distributor 0. 4 $^{\pm}$ 0.03 mm (0.016 $^{\pm}$ 0.0012"), dwell angle 40 $^{\rm 0}$ $^{+}$ 3 $^{\rm 0}$ 35 $^{\rm 0}$ BTDC at 6000 rpm Contact breaker gap Ignition point 1 - 6 - 2 - 4 - 3 - 5 Firing order Bosch W 230 T 30 Spark plugs Beru 240/14/3 14 x 1,25 mm Spark plug threads 0.6 mm (0.024") Electrode gap Clutch Fichtel and Sachs - M 215 K single dry plate Туре Approx. 20 mm (0.8") 203 cm² (31.5 sq.in.) Free travel at pedal Total friction area Fuel system Weber Type 40 IDT 3 C or IDT 3 C 1 Carburetors Intake silencer with Micronic filter element Air cleaner 1 Hardi electric Fuel pump 0.28 - 0.30 atm (4.1 - 4.5 psi) Fuel delivery pressure 900 cc (30.4 fl. oz.)/min. Fuel delivery rate Fuel pre-filter Mesh screen in fuel tank Micro-filter in fuel pump Fuel filter Electrical system 12 V Operating voltage 2 x 12 V, 36 A mp/hr Batteries Alternator

1320 liters (47 cu. ft.)/sec at 5800 rpm

with asymmetrical low beams ... 2 clearance lights

2 headlights, high an low beam (standard bulbs) with symmetrical low beams (for driving on left only)

for all countries except USA.

Regulator Crankshaft-generator shaft ratio

Starter 2 headlights, high an low

beam (Halogen)

Blower air flow

in headlights

for USA, in front turn indicators . .

Motorola 14 V 770 W

Motorola

Approx. 1:1.4 Bosch EB (12 V 0, 8 hp)

Each 2 x H 1 55 W

Each 45/40 W

Each 45/40 W

Each 4 Watt

4 side position lights in front and rear turn indicators (USA only) 2 tail lights in turn/stop tail light cluster) Emergency warning flashers (front and rear turn indicators) 2 front turn indicators	Each 4 Watt Each 5 Watt Each 18 Watt Each 18 Watt Each 4 Watt	
1 backup light Interior lights - Coupé (2) Glove box light Tachometer lighting High beam control lamp	25 Watt Each 10 Watt 10 Watt 2 Watt 2 Watt	
Turn indicator control lamp Combined instrument cluster lighting Battery charge control lamp	2 Watt 2 Watt 2 Watt	
Oil pressure warning lamp	2 Watt 2 Watt	
Window lift, windshield wipers, emergency warning light	25/40 Amp 16/25 Amp 8/15 Amp	
Turn indicators, position lights, license plate lights	5/ 9 Amp	
Transmission and rear axle		
Type	Integral manual shift gearbox and differential 4 forward speeds with Porsche servo synchromesh; gearbox optional 1st - 4th or 1st - 5th; see transmission diagram, O	
Reverse gear ratio	Manual rod linkage, ball pivot floor mounted cer Spiral bevel pinion and crownwheel, bevel gear d optional limited slip differential	nter shift lever
Rear axle ratio	4.428:1	
Chassis		
Frame	Welded sheet metal box section frame in unit wit Independent, spring struts and lower wishbones Independent, semi-trailing arms and half shafts 1 round section longitudinal torsion bar per wheel 1 round section transverse torsion bar per wheel 36°30′ - 37°	,

Front shock absorbers Rear shock absorbers Steering Total ratio Steering wheel turns lock to lock Smallest turning circle Toe-in, front rear Camber, front rear Steering axis inclination Caster Toe-out on turns, 20° wheel lock. Wheels Rims Tires Tire pressures (nominal), front rear Service brake (foot brake) Service brake actuation Total effective brake area Disc brake diameter, front rear Effective brake disc diameter, front	Acting as suspension struts Double acting, telescopic ZF-rack and pinion 17. 78: 1 (average) Approx. 3. 1 Approx. 10. 7 m (35. 1 feet) 00 0° ± 10° 0° ± 20° -50° ± 20° -50° ± 20° 10°55° 6°45° ± 45° 0° - 30° increasing toe-in Steel rim 5 1/2 J x 15, drop center 165 HR 15 1, 8 atm (26, 5 psi) 2. 0 atm (29. 5 psi) Disc (twin circuit) Hydraulic 210 cm² (32, 55 sq. in.) 282. 5 mm (11, 12") 290 mm (11, 42")
rear Parking brake	235 mm (9, 25) 244 mm (9, 61") Mechanical, acting on both rear wheels
Body	
Туре	All steel body in unit with frame, declining front contour, fast-back rear on Coupé
Doors	2 doors, front hinged 1050 mm (41, 3") average Approx, 70°
Windshield Door windows Rear side windows Rear window Type of glass Windshield wipers	One piece, constant radius Crank action wind down windows Front hinged, with position lock One piece, curved, electrically heated Safety glass Electric, 2 parallel action arms
Compartment lids front rear Seats Seating capacity	Rear hinged, with hydraulic prop, opened from car's interior Front hinged, with hydraulic prop, opened from car's interior 2 / 2
Front seats	2 adjustable fully reclining bucket seats 2 occasional seats, folding forward to form luggage platform

Dashboard	Speedometer with total and trip distance recorders, side-light telltale, illuminated
	Electric revolution counter with built-in telltales for high beam
	and turn indicators, illuminated Oil temperature gauge with built-in oil pressure and generator
	telltale, illuminated
	Fuel gauge with reserve warning light, illuminated
	Clock, illuminated
	3-position switch for windshield wipers on steering column
	outer tube
	Ignition/starter switch, main light switch
	Cigar lighter, ashtray, lockable glove box, grab handle
	Turn indicator/low beam/headlight flasher switch on steering
	column Steering wheel with horn push
Interior equipment	Steering wheer with north pasts
Floor	Fitted carpet
Center tunnel	Carpet trim
Front side panels	Carpet trim
Doors and side panels	Upholstered
Roof lining	Plastic material
Heating	Remote controlled warm air heater with hot and cold air mixing,
	2 defroster nozzles for windshield and 2 warm air outlets inside members below the doors
Ventilation	Flap controlled fresh air plenum chamber, with 3-speed blower
v Chthation	and air distribution system, centralized control unit
Various	,
Bumpers	Front and rear, each with two overrider horns
Spare wheel	Thief-proof mounting under front lid
Fuel tank	In front compartment
Tools and accessories	In front compartment
Dimanian and mainke	
Dimensions and weights	
Wheelbase	2268 mm (89.3")
Track front	13 62 mm (53, 6")
rear	1343 mm (52, 8")
Length	4163 mm (163.8")
Width	1610 mm (63.4")
Height (unladen)	1320 mm (52.0")
Overhang, front	865 mm (34.1")
rear	1055 mm (41. 6")
Ground clearance (laden)	150 mm (5, 9")
Ground clearance between wheels	140 mm (5. 5")
Dry weight (DIN)	1020 kg (2249 lbs) 1400 kg (3087 lbs)
Permitted axle load	
front	600 kg (1323 lbs)
rear	840 kg (1773 lbs)
Weight of engine, ready to	
install, without oil approx.	184 kg (406 lbs)
Weight of transmission, ready	50 1- (110 110)
to install, with oilapprox.	50 kg (110 lbs)

Filling capacities

Fuel tank	Approx. 62 liters (16.4 US gal.), including 6 liters (1.6 US gal.) reserve
Engine and oil tank	Approx. 9 liters (19 US pints) branded HD oil; in summer SAE 30, in winter SAE 20 for temperatures from $^{-1}5^{\circ}C$ (+ 5 F) to 0 C (32 $^{\circ}$ F), SAE 10 for temperatures below $^{-1}5^{\circ}C$ (+ 5 F)
Transmission and differential	Approx. 2, 5 liters (5, 3 US pints) SAE 90 hypoid
Brake fluid reservoir	Approx. 0. 2 liters (0.42 US pints)
Windshield washer	Approx. 2 liters (4.2 US pints)
Performance	
Output	110 BHP (DIN)
at engine speed	5800 rpm
Maximum torque	16 mkp (116 1b/ft)
at engine speed	4200 rpm
Mean piston speed	

at maximum engine output 8. 6 kp/cm² (122.3 Min, fuel consumption, 230 g/BHP/hr at engine speed, 3300 rpm

Maximum road speed, 200 kph (124 mph)

Output per liter, 55 BHP

Speeds in indirect ratios(theoretical) See transmission diagrams, group $\ensuremath{\mathtt{R}}$

Fuel consumption

 Fuel consumption (standard test method)
 9 liters per 100 km (26 US mpg)

 Min. octane rating
 96 (RM)

911 E

TECHNICAL DATA

Vehcile type: 911 E

Engine type: 911 E

Engine

Туре	Air cooled four-stroke gasoline engine combined to form a single
	unit with clutch, transmission and rear axle. Mounted at rear
	of vehicle
Number of cylinders	6
Cylinder layout	Horizontally opposed 3 x 3
Bore	80 mm (3, 150")
Stroke	66 mm (2, 598")
Capacity	1991 cc (121, 5 cu. in.)
Compression ratio	9.1:1
Compression test	9 - 11 kp/cm ² (128 - 157 psi) - after 12 compression strokes
Total dry weight	Approx. 184 kg (406 lbs)
Crankcase	Light alloy, two-part
Cylinders	Separate cylinder blocks
Cylinder material	Biral (cast-iron with light alloy fins)
Cylinder heads	Separate, light alloy
Valve seats	Shrink fit
Valve guides	Shrink fit, special bronze
Spark plug seats	Heli-coil inserts
Crankshaft	Forged
Main bearings	8 plain bearings
Main bearings 1 - 7	3-layer split shells
Main bearing 8	1 piece bushing, hard lead
Main bearing 1	Guide bearing
Connecting rods	Forged steel, soft nitrided
Big end bearings	3-layer
Piston pin bushings	Kuprodur, turned
Pistons	Light alloy, forged, box section
Piston rings	2 compression rings, 1 oil scraper
Valve operation	One overhead camshaft for each cylinder bank
Camshaft	Cast, with 3 plain bearings mounted directly in cambox
Camshaft drive	Chains
Valve layout	Overhead
Valve springs	2 coil springs per valve
Valve clearances	
(adjust with engine cold)	
Inlet	0, 10 mm (0, 0039")
Exhaust	0. 10 mm (0.0039") Measured between valve and rocker
Valve test timing	,
(measured with 1 mm/0.04"	
valve clearance)	
Inlet opens before TDC	29 ⁰
Inlet closes after BDC	39°
Exhaust opens before BDC	39°
Exhaust closes after TDC	19°
Cooling	Air cooled with axial blower on generator
Blower drive	By V-belt from crankshaft

1480 liters (52.5 cu. ft)/sec at 6500 rpm Air flow rate..... Dry sump with pressure oil circulation Lubrication Oil cooling Oil cooler on crankcase within flow from blower Oil pressure gauge High tension battery/condenser ignition Ignition Ignition transformer (coil) Bosch Distributor Bosch 0.3 mm (0.012") Contact breaker points (min.) 30° before TDC at 6000 rpm Ignition point 1 - 6 - 2 - 4 - 3 - 5 Firing order Spark plugs W 265 P 21, W 265 T 2SP Bosch 14 x 1.25 mm Spark plug thread 0.35 mm (0.014") Spark plug gap Clutch Fichtel and Sachs - M 215 K single dry plate Туре Approx. 20 mm (0.8") 203 cm² (31 sq. in.) Clutch pedal free travel Total lining area Fuel system Fuel injection Bosch 6 element double row injection pump Air cleaner Intake air muffler with Micronic element Fuel pump One electric fuel pump 0, 8 ± 0, 2 atm (11, 38 ± 2, 84 psi) Delivery pressure of electric pump... Flow rate of electric pump approx. 110 liters (29.1 US gal.)/hr. Fuel purification Mesh filter in fuel tank Fuel filter Micro filter in front of injection pump with built-in restrictor Electrical system Service voltage 12 Volt Batteries 2 x 12 Volt, 36 amp/hr. Generator Bosch K 1 - 14V 770 W Bosch VDN 1 Regulator Crankshaft - Generator shaft drive ration Approx. 1:1,4 Bosch EB (12 V 0, 8 hp) Starter 2 Headlights, high and low beam (Quartz-iodine) Each 2 x H 1 55 W 2 Headlights, high and low beam (spherical bulbs with

Each 45/40 Watt

Each 45/40 Watt

Each 4 Watt

STD 20

2 side lights

vertical dimming) for countries driving on left only

for all countries except USA, inside headlight units

for asymmetric low beam

for USA, in front turn indicators.

4 side boundary lights in front and rear turn indicators (USA only) 2 rear lights in turn indicator - stop - rear light units. Emergency warning flasher system (front and rear turn indicators) 2 front turn indicators 2 turn indicator - stop lights 2 license plate lights 1 reversing light Interior light (2 fitted to Coupe) Glove box light Revolution counter - instrument lighting High beam telltale Turn indicator telltale Combined instrument lighting Generator telltale Oil pressure telltale Speedometer lighting Fuses Window lifts, windshield wipers, emergency warning light Cigar lighter, stop light, sliding	Each 4 Watt Each 5 Watt Each 18 Watt Each 18 Watt Each 4 Watt 25 Watt Each 10 Watt 10 Watt 2 Watt
roof High beam, low beam Turn indicators, side lights, license	16/25 Amp. 8/15 Amp.
plate lights	5/ 9 Amp,
Transmission and rear axle	
Type	5-speed gearbox and differential in combined housing 5 forward gears with Porsche servo synchromesh
diagram, group R Reverse gear ratio	3,1473:1
Gear shift	Rod linkage with ball joint gear shift lever in center of floor
Final drive	Spiral bevel pinion, bevel pinion differential option: limited - slip differential
Rear axle ratio	4.428:1
Chassis	
Frame	Welded box section steel feet, welded to superstructure Independent, with wishbones and spring struts Independent, semi-trailing arms, drive to rear wheels by half shafts
Springing, frontrear	$1\ \mbox{self-levelling}$ hydropneumatic spring strut per wheel $1\ \mbox{round}$ section torsion bar, horizontally mounted, per wheel
ment value)	36 ⁰ 30' - 37 ⁰

```
In spring strut
Shock absorbers, front .....
                                   Double acting telescopic shock absorbers
             rear ......
                                   ZF - rack and pinion
Steering .....
                                   17.78: 1 (at straight ahead position)
Overall ratio .....
Number of turns of steering wheel
                                   Approx. 3.1
                                   Approx. 10.7 meters (35 ft. 2 in.)
 from lock to lock .....
Min. turning circle .....
Toe-in, front .....
                                   00 + 10'
       rear .....
                                   0° ± 20'
Camber, front .....
                                   -50' ± 20'
                                   10055
Kingpin inclination .....
                                   6°45' + 45'
Castor ......
Toe-out at 20° wheel lock ......
                                   00 to 30' towards toe-in
                                   Light alloy, forged
Wheels .....
                                   6 J x 15, for USA and Sportomatic 5 1/2 J x 14
Rims .....
                                   1, 8 atm (26 psi); for speeds above 200 kph (124 mph):
Tire pressures (suggested), front .....
                                   2. 2 atm (31 psi)
                                   2. 0 atm (28 psi); for speeds above 200 kph (124 mph):
                                   2.4 atm (34 psi)
                                   Disc brakes
Service brake (foot brake) ......
                                   Hydraulic
257 cm<sup>2</sup> (39.2 sq.in.)
Service brake operating system .....
Effective total rubbed area ......
                                   282.8 \text{ mm} (11.1 \text{ in.}), \text{ internally ventilated}
Brake disc diameter, front ......
                                   290 mm (11.4 in.), internally ventilated
                  rear ......
Effective brake disc diameter
                                   228 mm (8.97 in.)
          front .....
                                   244 mm (9.61 in.)
           rear .....
                                   Operates mechanically on both rear wheels
Parking brake .....
Superstructure
                                    All steel body shell welded to frame, dropped nose section,
Туре .....
                                    fast back on Coupé model
                                    2 doors, front hinged
Doors .....
                                   1050 mm (41.3 in.) mean width
  Width .....
                                    Approx. 70°
  Opening angle .....
Windows
                                    One piece, curved in both planes
  Windshield .....
                                    Fully retracting winding windows
  Door windows .....
                                    Front hinged with locking catch
  Rear side windows .....
                                    Full width, curved, electrically heated
  Rear window .....
  Type of glass .....
                                    Safety glass
                                    Electric, 2 parallel wiper arms
  Windshield wipers .....
Opening panels
                                    Rear hinged, with hydraulic prop, released from inside the car
  front .....
                                    Top hinged, with hydraulic prop, released from inside the car % \left( 1\right) =\left( 1\right) \left( 1\right) 
  rear ......
Seats
  Number of seats .....
                                    2\ \mbox{separate} adjustable seats with reclining mechanism
   front ......
                                    2 emergency seats with seat backs folding forwards to provide
   rear .....
                                    a baggage shelf
```

911 E

Dashboard	Speedometer with total and trip distance recorders, side-light
	telltale, illuminated
	Electric revolution counter with built-in telltales for high beam
	and turn indicators, illuminated
	Combined instrument with oil temperature gauge, oil pressure
	gauge and generator telltale, illuminated
	Clock
	3-position switch for windshield wipers on steering column
	outer tube
	Ignition/starter switch, main light switch
	Cigar lighter, ashtray, lockable glove box, grab handle
	Turn indicator/low beam/headlight flasher switch on steering
	column
	Steering wheel with horn push
Interior equipment	
Floor	Fitted carpet
Center tunnel	Carpet trim
Front side panels	Carpet trim
Doors and side panels	Upholstered
Roof lining	Plastic material
Heating	Remote controlled warm air heater with hot and cold air mixing,
	2 defroster nozzles for windshield and 2 warm air outlets inside members below the doors
Ventilation	
voncitation	Flap controlled fresh air plenum chamber, with 3-speed blower and air distribution system, centralized control unit
Various	and an distribution system, centralized control unit
Bumpers	Front and rear, each with two overrider horns
Spare wheel	Thief-proof mounting under front lid
Fuel tank	In front compartment
Tools and accessories	In front compartment
Dimensions and weights	
· ·	
Wheelbase	2268 mm (89, 3")
Track front	1374 mm (54, 0") - 14" rims = 1364 mm (53, 7")
rear	1355 mm (53, 3") - 14" rims = 1345 mm (52, 9")
Length	4163 mm (163,8")
Width	1610 mm (63.4")
Height (unladen)	1320 mm (52.0") - Coupé
Overhang, front	865 mm (34.1")
rear	1055 mm (41, 6")
Ground clearance (laden)	150 mm (5, 9")
Ground clearance between wheels	140 mm (5, 5")
Dry weight (DIN)	1020 kg (2249 lbs)
Permitted total weight	1400 kg (3087 lbs)
Permitted axle load, front	600 kg (1323 lbs)
rear	840 kg (1773 lbs)
Weight of engine, ready to install,	104 1- 4400 11 3
without oil approx.	184 kg (406 lbs)
Weight of transmission, ready to	50 b - (110 11)
install, with oilapprox.	50 kg (110 1bs)

Filling capacities

Fuel tank	Approx. 62 liters (16.4 US gal.), including 6 liters (1.6 US gal.) reserve
Engine and oil tank	Approx. 9 liters (19 US pints) branded HD oil; in summer SAE 30, in winter SAE 20 for temperatures from -15 $^{\circ}$ C (+5 $^{\circ}$ F) to 0 $^{\circ}$ C (32 $^{\circ}$ F), SAE 10 for temperatures below -15 $^{\circ}$ C (+5 $^{\circ}$ F)
Transmission and differential Brake fluid reservoir Windshield washer	Approx. 2. 5 liters (5. 3 US pints) SAE 90 hypoid Approx. 0. 2 liters (0. 42 US pints) Approx. 2 liters (4. 2 US pints)

Performance

Output	140 BHP (DIN)
at engine speed	6500 rpm
Maximum torque	17.8 mkp (128.8 lb/ft)
at engine speed	4500 rpm
Mean piston speed	
at maximum output	14.3 m/sec (2910 ft/min)
Mean effective pressure	0
at maximum engine output	9. 75 kp/cm ² (138. 7 psi)
Min. fuel consumption	228 g/BHP/hr
at engine speed	3300 rpm
Maximum road speed	215 kph (133 mph)
Output per liter	70 BHP
Power/weight ratio (ready for road)	7.8 kg. (17.2 lbs)/BHP (DIN)
Speeds in indirect ratios(theoretical)	See transmission diagrams, group R

Fuel consumption

Fuel consumption (standard test	
method)	9, 6 liters per 100 km (24, 5 US mpg)
Min. octane rating	Approx. 98 - 100 (RM)

TECHNICAL DATA

Vehicle type: 911 S

Engine type: 911 S

Engine	
Туре	Air cooled four-stroke gasoline engine combined to form a single unit with clutch, transmission and rear axle. Mounted at rear of vehicle
Number of cylinders	6
Cylinder layout	Horizontally opposed 3 x 3
Bore	80 mm (3. 150")
Stroke	66 mm (2, 598")
Capacity	1991 cc (121, 5 cu, in,)
Compression ratio	9,9:1
Compression test	9 - 11 kp/cm ² (128 - 157 psi) - after 12 compression strokes
Total dry weight	Approx. 184 kg (406 lbs)
Crankcase	Light alloy, two-part
Cylinders	Separate cylinder blocks
Cylinder material	Biral (cast-iron with light alloy fins)
Cylinder heads	Separate, light alloy
Valve seats	Shrink fit
Valve guides	Shrink fit, special bronze
Spark plug seats	Heli-coil inserts
Crankshaft	Forged
Main bearings	8 plain bearings
Main bearings 1 - 7	3-layer split shells
Main bearing 8	1 piece bushing, hard lead
Main bearing 1	Guide bearing
Connecting rods	Forged steel, soft nitrided
Big end bearings	3-layer
Piston pin bushings	Kuprodur, turned
Pistons	Light alloy, forged, box section
Piston rings	2 compression rings, 1 oil scraper
Valve operation	One overhead camshaft for each cylinder bank
Camshaft	Cast, with 3 plain bearings mounted directly in cambox
Camshaft drive	Chains
Valve layout	Overhead
Valve springs	2 coil springs per valve
Valve clearances	
(adjust with engine cold)	
Inlet	0, 10 mm (0, 0039") Measured between valve and rocker
Exhaust	0, 10 mm (0, 0039")
Valve test timing	
(measured with 1 mm/0,04"	
valve clearance)	38°
Inlet opens before TDC	38 ° 6 ° 6 ° 6 ° 6 ° 6 ° 6 ° 6 ° 6 ° 6 °
Inlet closes after BDC	50
Exhaust opens before BDC	40° 20°
Exhaust closes after TDC	
Cooling	Air cooled with axial blower on generator
Blower drive	By V-belt from crankshaft

1550 liters (54.2 cu. ft)/sec at 6800 rpm Air flow rate..... Dry sump with pressure oil circulation Lubrication Oil cooling Oil cooler on crankcase within flow from blower Electric Oil pressure gauge High tension battery/condenser ignition Ignition Ignition transformer (coil) Bosch Distributor Bosch 0.3 mm (0.012") Contact breaker points (min.) 30° before TDC at 6000 rpm Ignition point Firing order 1 - 6 - 2 - 4 - 3 - 5 Spark plugs W 265 P 21, W 265 T 2SP Bosch Spark plug thread 14 x 1,25 mm 0, 35 mm (0, 014") Spark plug gap Clutch Fichtel and Sachs - M 215 K single dry plate Approx. 20 mm (0.8") 203 cm² (31 sq.in.) Clutch pedal free travel Total lining area Fuel system Fuel injection Bosch 6 element double row injection pump Air cleaner Intake air muffler with Micronic element One electric fuel pump 0.8 $^{\pm}$ 0.2 atm (11.38 $^{\pm}$ 2.84 psi) Fuel pump Delivery pressure of electric pump... Flow rate of electric pump Approx. 110 liters (29.1 US gal.)/hr. Fuel purification Mesh filter in fuel tank Fuel filter Micro filter in front of injection pump with built-in restrictor valve

Electrical system

for all countries except USA, inside headlight units

Service voltage 12 Volt 2 x 12 Volt, 36 amp/hr. Batteries Bosch K 1 - 14V 770 W Generator Regulator Bosch VDN 1 Crankshaft - Generator shaft drive ration Approx. 1:1.4 Starter Bosch EB (12 V 0, 8 hp) 2 Headlights, high and low beam (Quartz-iodine) Each 2 x H1 55 W 2 Headlights, high and low beam (spherical bulbs with vertical dimming) for countries driving on left only Each 45/40 Watt Each 45/40 Watt for asymmetric low beam 2 side lights

for USA, in front turn indicators.. Each 4 Watt

4 side boundary lights in front rear turn indicators (USA only) 2 rear lights in turn indicator - stop - rear light units Emergency warning flasher system (front and rear turn indicators) 2 front turn indicators 2 turn indicator - stop lights 2 license plate lights 1 reversing light Interior light (2 fitted to Coupe) Glove box light Revolution counter - instrument lighting High beam telltale Turn indicator telltale Combined instrument lighting Generator telltale Oil pressure telltale Speedometer lighting Fuses	Each 4 Watt Each 18 Watt Each 18 Watt Each 18 Watt Each 4 Watt 25 Watt Each 10 Watt 10 Watt 2 Watt
Window lifts, windshield wipers, emergency warning light	25/40 Amp. 16/25 Amp. 8/15 Amp. 5/ 9 Amp.
Transmission and rear axle	
Type	5-speed gearbox and differential in combined housing 5 forward gears with Porsche servo synchromesh
Reverse gear ratio	3, 1473 : 1
Gear shift	Rod linkage with ball joint gear shift lever in center of floor Spiral bevel pinion, bevel pinion differential option: limited - slip differential
Rear axle ratio	4.428:1
Chassis	
Frame	Welded box section steel feet, welded to superstructure Independent, with wishbones and spring struts Independent, semi-trailing arms, drive to rear wheels by half shafts 1 self-levelling hydropneumatic spring strut per wheel 1 round section torsion bar, horizontally mounted, per wheel
ment value)	36 [°] 30' - 37 [°]

```
In spring strut
Shock absorbers, front .....
                                 Double acting telescopic shock absorbers
            rear ......
                                 Front and rear, transverse
Stabilizers .....
                                 ZF-rack and pinion
Steering .....
                                 17.78:1 (at straight ahead position)
Overall ratio .....
Number of turns of steering wheel
 from lock to lock .....
                                 Approx. 3.1
                                 Approx. 10.7 meters (35 ft. 2 in.)
Min. turning circle .....
Toe-in, front .....
                                 0° ± 10'
       rear .....
                                 0° ± 20°
Camber, front .....
                                 -50' ± 20'
        rear .....
                                 10°55
Kingpin inclination .....
                                 6<sup>0</sup>45' ± 45'
00 to 30' towards toe-in
                                 Light alloy, forged
Wheels .....
                                 6 J x 15
Rims .....
                                 185/70 VR-15
                                 1.8 atm (26 psi); for speeds above 200 kph (124 mph):
Tire pressures (suggested), front ...
                                 2, 2 atm (31 psi)
                                  2.0 atm (28 psi); for speeds above 200 kph (124 mph):
                     rear ...
                                  2. 4 atm (34 psi)
Service brake (foot brake) ......
                                 Disc brakes
                                  Hydraulic
Service brake operating system ....
                                  257 cm<sup>2</sup> (39.2 sq. in.)
Effective total rubbed area ......
                                  282.8 mm (11.1 in.), internally ventilated
Brake disc diameter, front ......
                                  290 mm (11.4 in.), internally ventilated
                 rear .....
Effective brake disc diameter
                                  228 mm (8 97 in )
  front .....
                                  244 mm (9.61 in.)
  rear .....
                                  Operates mechanically on both rear wheels
Parking brake .....
Superstructure
                                  All steel body shell welded to frame, dropped nose section,
Туре .....
                                  fast back on Coupé model
                                  2 doors, front hinged
Doors .....
                                  1050 mm (41.3 in.) mean width
  Width .....
                                  Approx. 70°
  Opening angle .....
 Windows
                                  One piece, curved in both planes
  Windshield .....
  Doors windows .....
                                  Fully retracting winding windows
                                  Front hinged with locking catch
  Rear side windows .....
                                  Full width, curved, electrically heated
  Rear window .....
                                  Safety glass
   Type of glass .....
   Windshield wipers .....
                                  Electric, 2 parallel wiper arms
 Opening panels
                                  Rear hinged, with hydraulic prop, released from inside the car
   front .....
                                  Top hinged, with hydraulic prop, released from inside the car
   rear .....
 Seats
                                  2/2
   Number of seats .....
                                  2 separate adjustable seats with reclining mechanism
   front .....
                                  2 emergency seats with seat backs folding forwards to provide
   rear .....
                                   a baggage shelf
```

911 S

Dashboard	Speedometer with total and trip distance recorders, side-light
	telltale, illuminated
	Electric revolution counter with built-in telltales for high beam
	and turn indicators, illuminated
	Combined instrument with oil temperature gauge, oil pressure
	gauge and generator telltale, illuminated
	Clock
	3-position switch for windshield wipers on steering column outer
	tube
	Ignition/starter switch, main light switch
	Cigar lighter, ashtray, lockable glove box, grab handle
	Turn indicator/low beam/headlight flasher switch on steering
	column
*	Steering wheel with horn push
Interior equipment	District Language
Floor	Fitted carpet
Center tunnel	Carpet trim
Front side panels	Carpet trim Upholstered
Doors and side panels	Plastic material
Heating	Remote controlled warm air heater with hot and cold air mixing,
mouning	2 defroster nozzles for windshield and 2 warm air outlets inside
	members below the doors
Ventilation	Flap controlled fresh air plenum chamber, with 3-speed blower
	and air distribution system, centralized control unit
Various	,
Bumpers	Front and rear, each with two overrider horns
Spare wheel	Thief-proof mounting under front lid
Fuel tank	In front compartment
Tools and accessories	In front compartment
Dimension	
Dimensions and weights	
Wheelbase	2268 mm (89, 3")
Track front	1374 mm (54. 0")
rear	1355 mm (53, 3")
Length	4163 mm (163.8")
Width	1610 mm (63, 4")
Height (unladen)	1320 mm (52, 0") - Coupé
Overhang, front	865 mm (34, 1")
rear	1055 mm (41, 6")
Ground clearance (laden)	150 mm (5.9")
Ground clearance between wheels	140 mm (5,5")
Dry weight (DIN)	995 kg (2194 lbs)
Permitted total weight	1400 kg (3087 lbs)
Permitted axle load	and I stage it .
front	600 kg (1323 lbs)
rear	840 kg (1773 lbs)
Weight of engine, ready to	104 1 - 440 411)
install, without oilapprox.	184 kg (406 lbs)
Weight of transmission, ready	50 log/110 lbs)
to install, with oil approx.	50 kg (110 lbs)

Filling capacities

Approx. 62 liters (16.4 US gal.), including 6 liters (1.6 US gal.) Fuel tank

Approx. 9 liters (19 US pints) branded HD oil; in summer SAE 30, in winter SAE 20 for temperatures from -15° C ($+5^{\circ}$ F) to 0° C (32° F), SAE 10 for temperatures below -15° C ($+5^{\circ}$ F) Engine and oil tank

Approx. 2, 5 liters (5, 3 US pints) SAE 90 hypoid Transmission and differential

Approx. 0.2 liters (0.42 US pints) Brake fluid reservoir Approx. 2 liters (4.2 US pints) Windshield washer

Performance

170 BHP (DIN) Output

6800 rpm at engine speed

18.5 mkp (133.8 lb/ft) Maximum torque

5500 rpm at engine speed

Mean piston speed

14.9 m/sec (2934 ft/min) at maximum output

Mean effective pressure

 $11.3 \text{ kp/cm}^2 (160.7 \text{ psi})$ at maximum engine output

236 g/BHP/hr Min, fuel consumption 4000 rpm at engine speed

225 kph (140 mph) Maximum road speed 85 BHP

6.3 kg (13.9 lbs)/BHP (DIN) Power/weight ratio (ready for road) ...

See transmission diagrams, group R

Speeds in indirect ratios(theoretical)

Fuel consumption

Fuel consumption (standard test 10.2 liters per 100 km (23 US mpg)

method 98 - 100 (RM) Min. octane rating approx.

TECHNICAL DATA - TYPE 911 C

911 S		in at rear of vehicle	9		84 mm (3.31 in.)	66 mm (2,60 in,)	2195 cc (134 CID)	9.8:1	2 (21.4 psi) with	180 DIN HP/6500 (200 SAE HP)	20.3 mkp (164 ft.lbs.)/5200	7200 rpm	7300 <u>100 rpm</u>	98 (RON)	182 kp (400 lbs.)			1380 1/sec @ 6500 rpm of crankshaft rpm	dry sump	
911 E		air cooled, four stroke, gasoline combustion engine, unitized with clutch and drive train at rear of vehicle	9	per bank	84 mm (3,31 in.)	66 mm (2.60 in.)	2195 cc (134 CID)	9,1:1	9 - 11 kp/cm ² (128 - 157 ps1), max. pressure difference between cylinders 1.5 kp/cm 2 (21.4 psi) with oil temperature of 60^{9} C minimum	155 DIN HP/6200 (17 5 SAE HP)	19.5 mkp (160 ft.lbs.)/4500	6700 rp m	7100 ± 100 rpm	98 (RON)	182 kp (400 lbs.)			1380 1/sec @ 6500 rpm of crankshaft	dry sump	-
911 T		air cooled, four stroke, gasoline combust.	9	horizontally opposed six, three cylinders per bank	84 mm (3.31 in.)	66 mm (2,60 in.)	2195 cc (134 CID)	8.6:1	9 - 11 kp/cm ² (128 - 157 psi), max. pre oil temperature of $60^{\rm OC}$ minimum	125 DIN HP/5800 (142 SAE HP)	18 mkp (148 ft.1bs.)/4200	6500 rpm	6500 ± 100 rpm	96 (RON)	176 kp (387 lbs.)	air cooled	off crankshaft by V-belt	1230 1/sec @ 5800 rpm of crankshaft	dry sump	
	Engine	Type	Number of cylinders	Cylinder arrangement	Bore	Stroke	Total piston displacement	Compression ratio	Compression pressure	Horsepower @ rpm	Torque @ rpm	Maximum engine speed	Cut-off speed of rotor in ignition distributor	Required fuel octane rating	Engine weight approx.	Cooling	Cooling fan drive	Blower air flow	Lubric ation	

	911 T	911 E	911 S
Oil cooling	oil cooler on crankcase in air stream of blower	oil cooler on crankcase in air stream of blower	oil cooler on crankcase in air stream of blower, supplemental oil cooler in front of vehicle
Oil pressure indication	by warning light	by gauge (in psi)	by gauge (in psi)
Oil filter	full flow system	full flow system	full flow system
Oil capacity, w/filter	9 1tr (9.5 qts)	9 ltr (9.5 qts)	9 ltr (9.5 qts) (first filling approx. 10 ltr/ 10.5 qts incl. oil cooler)
Oil consumption	1.5 - 2.0 qts/600 mi	1.5 - 2.0 qts/600 mi	1,5 - 2,0 qts/600 mi
Cylinder heads	light alloy, finned individual castings for each cylinder	each cylinder	light alloy (Y-alloy) finned individual castings for each cylinder
Valve seat inserts	shrunk-in, grey cast iron	shrunk-in, grey cast iron	shrunk-in, grey cast iron
Valve guides	shrunk-in, special bronze	shrunk-in, special bronze	shrunk-in, special bronze
Spark plug threads	14x1.25, machined into cylinder heads	14x1.25, machined into cylinder heads	14x1.25, machined into cylinder heads
Valve timing	OHC, 1 cam per cylinder bank	OHC, 1 cam per cylinder bank	OHC, 1 cam per cylinder bank
Camshaft	cast steel, in three plain bearings in base metal of camshaft housing	e metal of camshaft housing	
Camshaft drive	by chain	by chain	by chain
Valves	1 intake and 1 exhaust valve per cylinder		
Valve arrangement	overhead in "V"	overhead in "V"	overhead in "V"
Exhaust valves	sodium cooled, with reinforced seat		
Valve springs	2 coil springs per valve		
Valve clearance, cold: intake exhaust	0.10 mm (.004 in.) measured between 0.10 mm (.004 in.)	measured between valve stem and rocker arm	

	911 T	911 E	911 S
Valve timing with 1 mm (.040 in.) valve clearance:			O
inlet opens inlet closes	15º BTC 29º ABC	20° BTC 34° ABC	38° BTC 50° ABC
exhaust opens exhaust closes	41 ⁰ BBC 5 ⁰ BTC	40° BBC 6° ATC	40 ^o BBC 20 ^o ATC
Cylinders	individual, grey cast iron with integral cooling fins	individual, cast iron with finned light alloy jacket	individual, cast iron with finned light alloy jacket
Pistons	die-cast light alloy	die-cast light alloy	forged light alloy
Piston pins	floating, circlip secured	floating, circlip secured	floating, circlip secured
Piston rings	2 compression rings 1 oil scraper ring	2 compression rings 1 oil scraper ring	2 compression rings 1 oil scraper ring
Crankcase	two-piece, light alloy pressure casting	two-piece, light alloy pressure casting	two-piece, light alloy pressure casting
Intermediate shaft	in plain journal bearings	in plain journal bearings	in plain journal bearings
Crankshaft	forged with 8 main bearings	forged with 8 main bearings	forged with 8 main bearings
Main bearings 1-7	tri-metal, split inserts	tri-metal, split inserts	tri-metal, split inserts
Main bearing 1	thrust bearing	thrust bearing	thrust bearing
Main bearing 8	hard lead sleeve	hard lead sleeve	hard lead sleeve
Connecting rods	forged steel	forged steel	forged steel (stress relieved)
Connecting rod bearings	three layer, split inserts	three layer, split inserts	three layer, split inserts
Piston pin bushings	pressed-in bronze bushings	pressed-in bronze bushings	pressed-in bronze bushings
Clutch	single plate, dry (pulltype)	single plate, dry (pulltype)	single plate, dry (pulltype)
Ignition system	capacitive discharge, battery ignition	capacitive discharge, battery ignition	capacitive discharge, battery ignition
Ignition transformer	Bosch	Bosch	Bosch

	E	911 E	911 S
		000	Rosch IFDRG 0231159007
Distributor type	Marelli S 112 BX or Bosch FFDRG 0231159008	Bosch JFDRG UZ31139000	
	35° 8TC @ 6000 mm	30° BTC @ 6000 rpm	30° BTC @ 6000 rpm
Ignition timing		1-6-2-4-3-5	1-6-2-4-3-5
Firing order	1-6-2-4-3-3		centrifugal
Spark advance	centrifugal	Centriugai	mm 8 0 to 06 + 000
reaker	Marelli = $40^{\circ} + 3^{\circ}$, or 0.4 + 0.03 mm (0.016 + 0.001 in.);	38 ⁷ ± 3°, or 0.3 mm (0.012 in.) minimum	(0.012 in.) minimum
	Bosch = 38 = 30		965/14/3P
Spark plugs	Beru 240/14/3, 250/14/3P	Beru 265/14/3P	Delu 200/ 13/ Ol
Optional brand	Bosch W230/T30, W250/P21	Bosch W265 P 21	BOSCII W ZOO F ZI
Spark plug gap	all plugs 0.6 mm	all plugs 0.6 mm	all plugs 0.6 mm
Fuel system	triple-throat downdraft Zenith carburetors	six-plunger, double-row Bosch fuel injection pump	six-plunger, double-row Bosch fuel injection pump
Air cleaner	induction silencer with micronic filter cartridge	induction silencer with micronic filter cartridge	induction silencer with micronic filter cartridge
	1 electric roll-cell pump	1 electric roll-cell pump	1 electric roll-cell pump
Fuel pullip	80 ltr/h (.352 gpm)	125 ltr/h (.55 gpm)	125 ltr/h (.55 gpm)
Delivery rate	0.3 atm (4.3 psi)	1 atm (14.2 psi)	1 atm (14.2 psi)
Drawne relief valve opens at	0.2 - 0.3 atm	approx. 2 atm	approx. 2 atm
Fuel filter	fine screen in fuel pump	fine screen ahead of fuel injection pump with integrated reduction valve	fine screen with integrated reduction valve
	12 volt	12 volt	12 volt
Electrical system	2x12 volt. 36 Ah each	2x12 volt, 36 Ah each	2x12 volt, 36 Ah each
Battery rating	770 W. AC	770 W, AC	770 W, AC
Voltage regulator	same brand as alternator	same brand as alternator	same brand as alternator
0			

911 S	approx, 1:1.4	50/40 W each	4 W each		5 W each	21 W each		21 W each		4 W each	18 W each	10 W each		10 W	2 W	2 W				
911 E	approx. 1:1.4	Bosch 12 V, 0.8 HP	50/40 W each	4 W each	W A W		21 W each		21 W each	1 W 000 th	4 V CaCII	18 W each	TO W CACII	10 W	77. 0	\$	≫			
911 T	approx. 1:1.4	Bosch 12 V, 0.8 HP	50/40 W each	4 W each		5 W each	21 W each		21 W each		4 W each	18 W each	10 W each		10 W	2 W	2 W		-	
	Cranbehaft/alternator ratio	Starter motor	2 sealed beam headlights	4 sidemarker lights in front	and rear directional signal lamps (USA only)	2 tail lights in the directional signal and stop light units	Emergency flasher lights (front and rear directional	signal units)	2 directional signal and	stop lights	2 license plate lights	2 backup lights	Interior light (2 in Coupe	models)	Glove compartment light	Instrument illumination	Warning lights			

			1
	911 T	911 E	911 S
Luggage compartment light	5 W	5 W	5 W
Fuses: Window regulators, windshield wipers,	25/40 amp	25/40 amp	25/40 amp
emergency flasher Cigarette lighter, stop lights, sun roof	16/25 amp	16/25 amp	16/25 amp
Headlight high/low beams, parking lights, directional signal lights	8/15 amp	8/15 amp	8/15 amp
License plate light	5/9 amp	5/9 amp	5/9 amp
Transmission and Rear Axle:			
Tvne	transmission and differential in common housing	housing	
Transmission	4 forward speeds with Porsche synchronization, 5 speeds optional	5 forward speeds with Porsche synchronization	5 forward speeds with Porsche synchronization
Reverse gear ratio	i = 1:3.1473	i = 1:3.1473	1 = 1:3,14/3
Gearshift type	mechanical linkage with floor- -mounted shift lever	mechanical linkage with floor- -mounted shift lever	mechanical linkage with most -mounted shift lever
Differential drive	spiral bevel gears, bevel gear differential; limited slip differential optional	al; limited slip differential optional	
Reduction ratio	7:31, i = 4.428	7:31, i = 4.428	7:31, 1 = 4,428
Rear axle drive	drive shafts with 2 CV joints per shaft		
Chassis:	11,000	with hody	
Frame	welded assembly, box-section, unfilzed with body	with body	
,			

	911 T	911 E	911 S
Front suspension	independent with struts and transverse control arms	introl arms	
Rear suspension	independent with triangulated control arms, power transfer over half-axles	ms; power transfer over half-axles	
Front springing	1 round longitudinal torsion bar per wheel, or 1 suspension strut per wheel	1 hydro-pneumatic suspension strut per wheel	1 round longitudinal torsion bar per wheel, or 1 suspension strut per wheel
Dear enringing	1 round transverse torsion bar per wheel		c
Basic nominal inclination	36030' to 370	36 ⁰ 30' to 37 ⁰	36 ⁰ 30' to 37 ⁹
of rear radius arms			
Shockabsorbers: front: rear:	shockabsorber struts telescopic, double-action shockabsorbers	hydro-pneumatic suspension struts telescopic, double-action shockabsorbers	shockabsorber struts telescopic, double-action shockabsorbers
	ZE rack & minion	ZF rack & pinion	ZF rack & pinion
Steering type	יייייייייייייייייייייייייייייייייייייי	1.17 78 71.1	1:17,78 overall
Steering ratio	1:17.78 overall	L. L	front and rear, transversely mounted
Stabilizers	ı		1 0
Steering wheel turns lock-to-lock	approx. 3.1	approx. 3.1	approx. o.1
Smallest turning circle diameter	approx. 10.7 m (35.0 ft.)	approx. 10.7 m (35.0 ft.)	approx 10,7 m (55,0 10.)
Toe-in, preloaded with 15 kp (33.1 lbs) front	00 00 ± 10°	0° ± 10°	00 00 + 10*
Camber, front	00 ± 20', max. deviation left to right 20'	00 ± 20', max, deviation left to right 20'	00 + 20', max. deviation left to right 20' -50' + 20'
rear	-50' + 20'	-50, 20,	000000000000000000000000000000000000000
Steering pivotangle	10055'	10 ⁰ 55'	10 55. + 15.
Caster	605. + 15.	605, 115,	00 +0 30+
Angle variation @	00 to 30'	0.0 to 30'	
20° wheel turn			

	911 T	911 E	911 S
	000	forged light alloy	forged light alloy
Wheels	101.5	6J x 15	6 J x 15
Wheel rims Nominal tire pressures, front	1.8 atm (26 psi)	1.8 atm (26 psi) 2.2 atm (32 psi) for speeds	1.8 atm (26 psi) 2.2 atm (32 psi) for speeds
ıear	2.0 atm (29 pst)	over 125 mph 2.0 atm (29 psi) 2.4 atm (35 psi) for speeds over 125 mph	over 123 inpu 2.0 atm (29 psi) 2.4 atm (35 psi) for speeds over 125 mph
Service brake	dual circuit disc brakes	dual circuit disc brakes	dual circuit disc brakes
Service brake actuation Total effective brake area	hydraulic 210 cm ² (32,55 sq.in.)	hydraulic 257 cm ² (39.84 sq.in.)	257 cm² (39.84 sq.in.)
(service brake) Brake disc diameter front rear	282.5 mm (11.12 in.), vented 290.0 mm (11.42 in.), vented	282.5 mm (11.12 in.), vented 290.0 mm (11.42 in.), vented	282.5 mm (11.12 in.), vented 290.0 mm (11.42 in.), vented
Effective brake disc diameter rear	235 mm (9.25 in.) 244 mm (9.61 in.)	228 mm (8.98 in.) 244 mm (9.61 in.)	228 mm (8.98 in.) 244 mm (9.61 in.) mechanical, acting on rear wheels
Parking brake	mechanical, acting on rear wheels	mechanical, actuig on real moos	
Body:	all-steel body unitized with frame, dec	all-steel body unitized with frame, declining front contour, fastback rear in Coupe	
Doors Door width Door swing angle	2 doors hinged on front posts 1050 mm (41.3 in.) average approx. 700	1050 mm (41,3 in.) average approx, 70 ⁰	1050 mm (41.3 in.) average approx. 70 ⁰
W in dows: Windshield Door windows Rear side windows	single piece, constant radius, laminated safety glass, convex contour crank-lowered ininged, with position lock	ed safety glass, convex contour crank-lowered hinged, with position lock	crank-lowered hinged, with position lock

911 S		d from passenger compartment In the directional signal indicator lights warning light; illuminated meter and trip mileage counter, and parking light warning light and directional signal indicator lights and illuminated combination instrument incorporating an oil temperature gauge, oil pressure gauge, and alternator control lamp oil pressure gauge, and alternator control lamp ator lamp; illuminated clock; windshield wiper switch with 3 positions, ator lamp; illuminated clock; windshield wiper switch with 3 positions, dignition switch, light switch; illuminated cigarette lighter, ashtray, and eering column mounted control lever for directional signals, headlight with signal horn ring controls for blending heated air with fresh outside air, two defroster outlets or heating passenger compartment leg area
	911 E Ily heated	binged at rear, with hydraulic props, opened from passenger compartment hinged at rear, with hydraulic props, opened from passenger compartment hinged at front, with hydraulic props, opened from passenger compartment hinded at front, with hydraulic prop opened from passenger compartment and parking light warning light; illuminated transistorized tachometer with high beam warning light and directional signal indicator lights transistorized tachometer with high beam warning light and directional signal indicator lights control lamps oil pressure gauge, and alternator control lamps control lamps oil pressure and alternator linky ator lamp; illuminated clock; windshield where switch, itserting wheel with signal hom ring dirmner and flasher switch; steering wheel with signal hom ring remote controlled hot air heating system; controls for blending heated air with fresh outside air, two defroster outlets at the windshield and two hot air outlets for heating passenger compartment leg area
	911 T 911 E single piece, convex contour, electrically heated	hinged at rear, with hydraulic props, opened from passenger compartment hinged at front, with hydraulic prop, opened from passenger compartment hinged at front, with hydraulic prop, opened from passenger compartment hinged at front, with hydraulic prop, opened from passenger compartment illuminated speedometer incorporating odometer and trip mileage counter illuminated oil temperature gauge with high beam warning light and directional significant oil pressure and alternator control lamps Illuminated fuel gauge with low fuel indivator lamp; illuminated clock; with oil pressure gauge, and alternator control lamps Illuminated fuel gauge with low fuel indivator lamp; illuminated clock; with mounted on the steering column; starter and ignition switch, light switch; nounted on the steering column mounted control lockable glove compartment; hand grip; steering column mounted control lamps remote controlled hot air heating system; controls for blending heated air at the windshield and two hot air outlets for heating passenger compartment with windshield and two hot air outlets for heating passenger compartment.
	Rear window	Class type Windshield wipers Luggage compartment lid Engine compartment lid Instrument panel

sures ded	th three-speed fan and flo	911 T 911 E 911 S 911 Anote with three-speed fan and flow distribution control, actuation by a single control unit	911 S
	Ith three-speed fan and flo	w distribution control, actuation by a single c	
) in.)		control unit
oty) rance, loaded ng, front rear ht (DIN) issible weight load, front	in.)		
oty) rance, loaded ng, front rear ht (DIN) issible weight load, front		l light alloy wheels	with light alloy wheels
(empty) clearance, loaded verhang, front rear weight (DIN) permissible weight axle load, front	in.) 7 in.)	1374 mm (54.09 III.); 1304 IIIII (52.75 III.) with light alloy wheels 1355 mm (53.35 III.); 1345 mm (52.95 III.) with light alloy wheels	with light alloy wheels
clearance, loaded verhang, front rear weight (DIN) permissible weight axle load, front	90 in.)		
	9 in.)		
	7 in.)		
	in.)		
1020 kp 1400 kp 600 kp 840 kp	6 in.) 4 in.)		
1400 kp 600 kp 840 kp	: 1bs)		
600 kp 840 kp	(1bs)		
) 1bs) 3 1bs)		
Max. trailer weight 600 kp (1320 lbs) trailer with brakes 480 kp (1060 lbs)	0 1bs) 0 1bs)		
Performance:	4	220 kmh (137 mph)	230 kmh (143 mph)
Max. speed 205 kmh (127 mpu) Power/weight ratio 8.7 kp/DIN HP 115.8 lbs/SAE HP 15.8 lbs/SA	mpu) P HP	7.1 kp/DIN HP 12.8 lbs/SAE HP	6.1 kp/DIN HP 11.2 lbs/SAE HP
weight) Nominal fuel consumption 9.0 ltr/100 km (26.1 mpg)	п	9.5 ltr/100 km (24.7 mpg)	10.2 ltr/100 km (23.0 mpg)

	911 T	911 E	911 S
Capacities:		27 / 37	incl 1 6 oal reserve):
Fuel tank	approx. 62 ltr, incl. 6 ltr reserve (16.4 gal, incl. 1.6 gal	approx, 62 ltr, incl. 6 ltr reserve (10.4 gat, incl. 10 gat) 90 ltr (23.8 gal) tank optional	1, 111(1, 1, 0, 0, 1, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
	reserve)		
Engine and oil tank	approx. 9 1tr premium HD oil (9.5 qts); -15° C and 0° C (+50F and +320F); SAE 1	approx. 9 1tr premium HD oil (9.5 qts); summer SAE 30; winter SAE 20 in ambient temperatures of between -15° C and 0° C ($+5^{\circ}$ F and $+32^{\circ}$ F); SAE 10 in ambient temperatures below -15° C ($+5^{\circ}$ F)	mperatures of between)
Transmission and	approx. 2.5 ltr (2.6 qts) Hypoid SAE 90 oil	011	
differential			
Hydraulic fluid reservoir	approx. 0.2 ltr (7 fl.oz.)		
Windshield washer	approx. 2.0 ltr (2.1 qts)		
reservoir			