POPSCHE

914

MODEL 73

PORSCHE-AUDI

A DIVISION OF VOLKSWAGEN OF AMERICA INC.

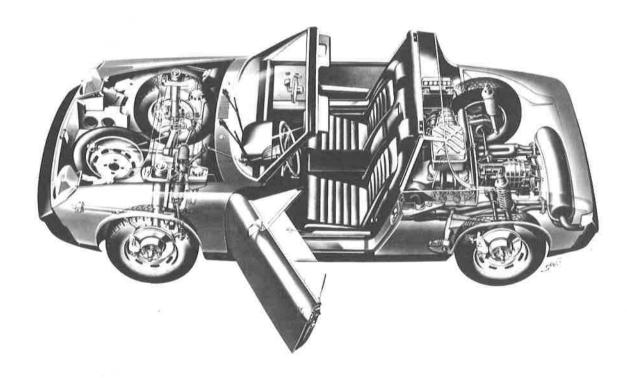


MODEL'73

Beginning with model year 1973 the Porsche 914 will be offered with a number of technical modifications and improvements.

In addition to the well-known 1.7 liter version, an engine with a displacement of 2.0 liters and an output of 95 HP (DIN) is available.

All modifications as well as technical data and the important repair instructions are given in this brochure.

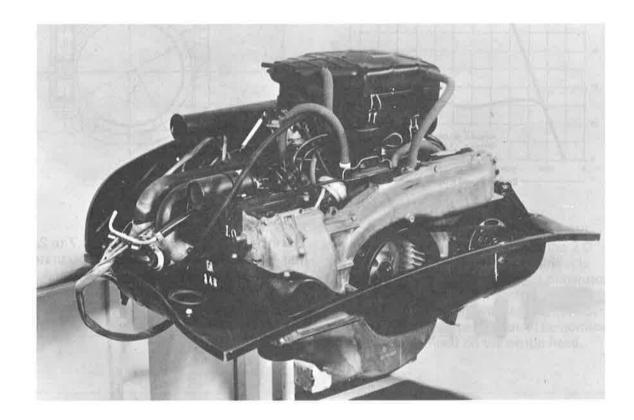


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USA, excluding California USA, excluding California California only California only		900 001 Consecutive number	EA 0057 001 = USA, excluding California EB 0000 001 = California (72 DIN HP)	GA 0000 001 = USA (95 DIN HP) HA 0051 316 = 5-speed manual transmission HB = 5-speed manual transmission with limited slip differential
Output (DIN HP) 80 95 72 95		32 Model year 02 = 1970 12 = 1971	22 = 1972 32 = 1973 Code letter E	Code letter G Code letter H
Displacement (Liter) 1.7 2.0 1.7 2.0	5-speed transmission	47 . Type series	Engine type 022 – 1.7 liter	Engine type 039 – 2.0 liter Transmission type 914/12
Index 3 = 4 = 5 = 6 = Transmission Index (Digit 6)	Index 4 = 5 Chassis number and component code	1. Chassis Number	2. Engine Numbers	3. Transmission Numbers

ENGINE

A new engine type - 914 S - with a displacement of 2.0 liters and a rated output of 95 HP (DIN) has been developed from the well-known 1.7 liter 4 cylinder engine of the 914/4 model.



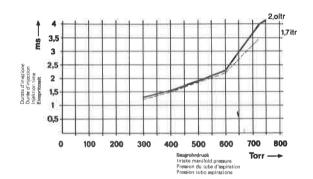


A dry air filter with Micronic element is installed on all engines. The filter elements must be changed every 12000 miles or at least every two years.

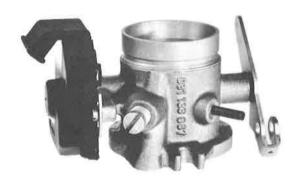


The control unit with adjusting potentiometer corresponds to that of the 1.7 liter engines.

On 2.0 liter engines the CO control value is max. 1.5% CO at idling speed 900 ± 50 rpm and an oil temperature of $50-70^{\circ}$ C (122–158°F).



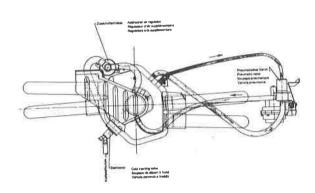
The pressure sensor curve was adapted to the vacuum ratios of the 2.0 liter engines, i.e. the injection times are slightly longer than on the 1.7 liter engine.



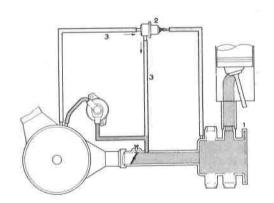
The throttle valve switch has also been redesigned. The new switch can be recognised by the angled plug connection.



The injectors for the 2.0 liter engines have been given a larger opening gap. They are marked with a green plug socket. The injectors of the 1.7 liter engines are yellow.

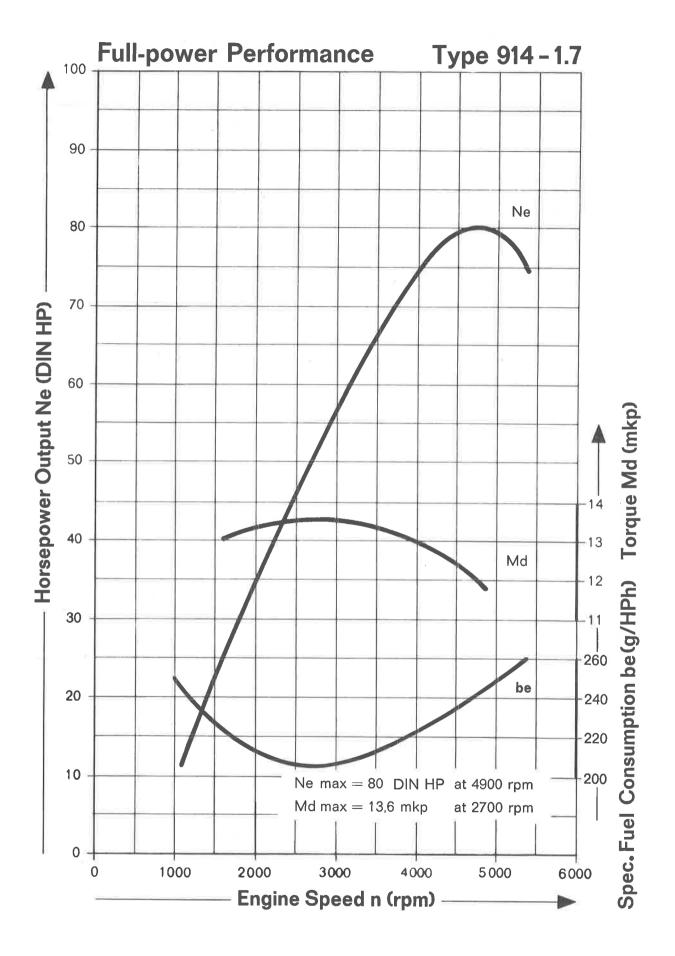


All 2.0 liter engines are equipped with the device for increasing air supply when decellerating. This device is the same as for '72 models. The purpose of this device is to convey air into the intake filter via an additional line during decelleration.

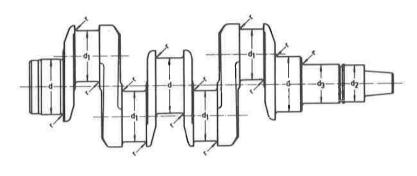


Function:

At high engine speeds with the throttle valve closed a high level of vacuum occurs in the intake air distributor. The vacuum acts on pneumatic valve 2. The valve opens so that additional air can pass through lines 3 from the air filter to the intake air distributor. The fuel/air mixture is leaned out in this way.



Crankshaft Regrinding Specifications

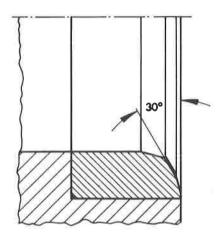


$$d_3 = \frac{42.006}{41.995} \,\text{mm} \,\phi \qquad r = \frac{2.5}{2.0} \,\text{mm}$$

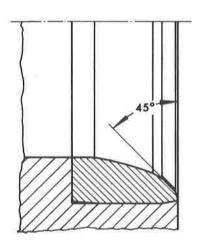
Careful grinding of the radii on the crankshaft and big-end journals is of great importance. A value of 2.5 mm should be maintained. The radii should be redressed.

ti.	Journals cranksha 1, 2 and	ft bearings	Journals big-end I (d ₁)		Journals cranksha 4 (d ₂)	for oft bearings
	Nom. φ mm	Lapping ϕ mm	Nom. φ mm	Lapping ϕ mm	Nom. ϕ mm	Lapping ϕ mm
Normal	60,00	59.990 59.971	50,00	49.996 49.983	40,00	40.000 39.984
1st Undersize	59,75	59,740 59,721	49,75	49,746 49,733	39,75	39,750 39,734
2nd Undersize	59,50	59,490 59,471	49,50	49,496 49,483	39,50	39,500 39,484
3rd Undersize	59,25	59,240 59,221	49,25	49,246 49,233	39,25	39,250 39,234

VALVE SEAT SPECIFICATIONS

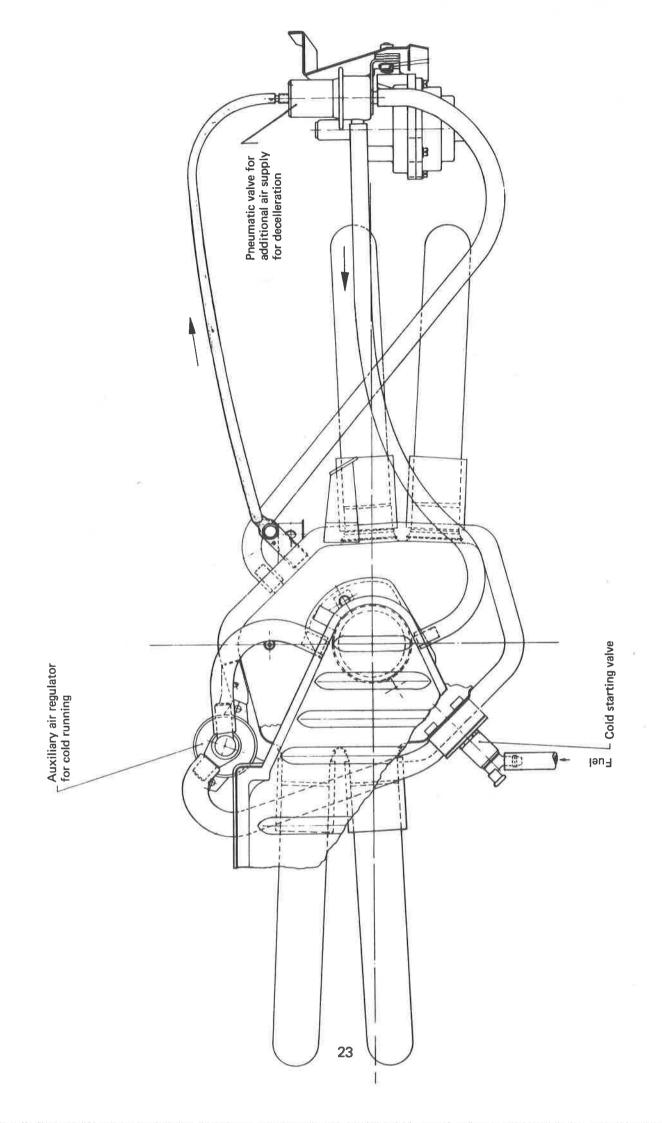


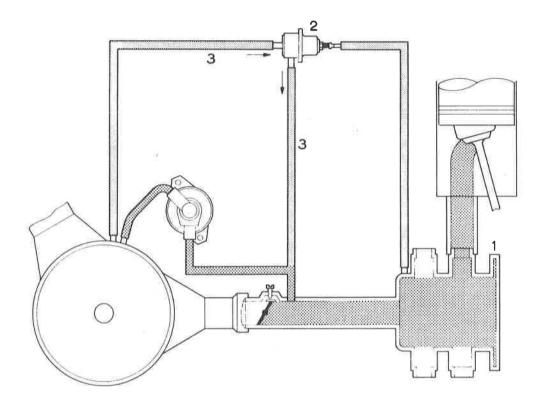
1.7 ltr. — Angle of intake seat ring



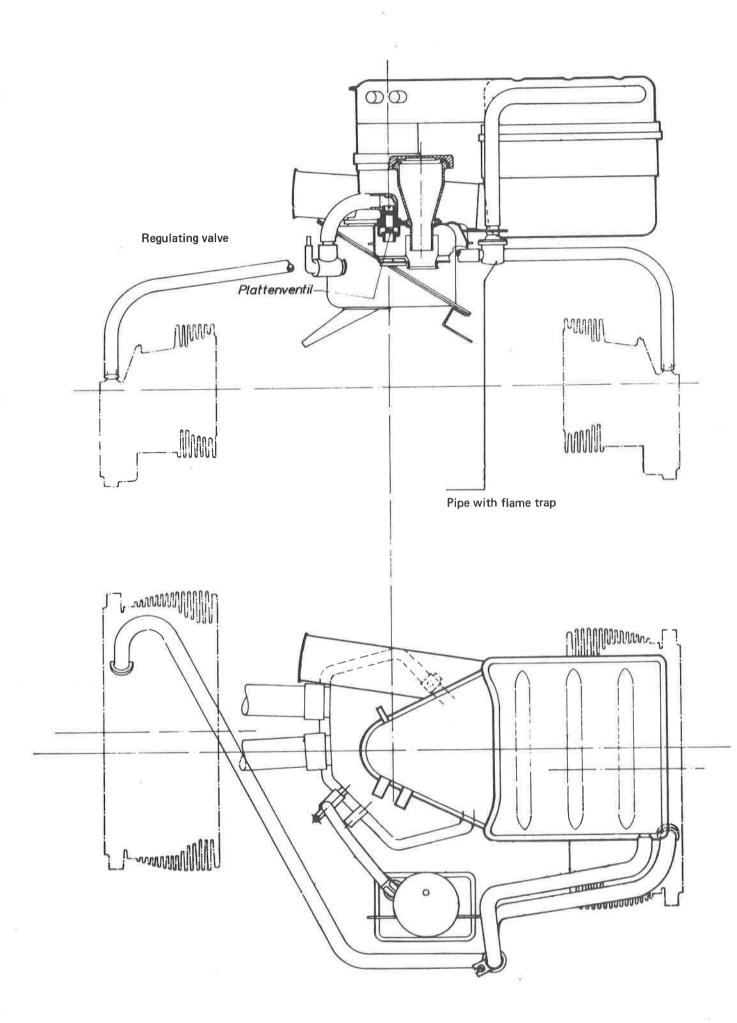
1.7 ltr. — Angle of exhaust seat ring

2.0 ltr. — Angle of intake and exhaust seat ring



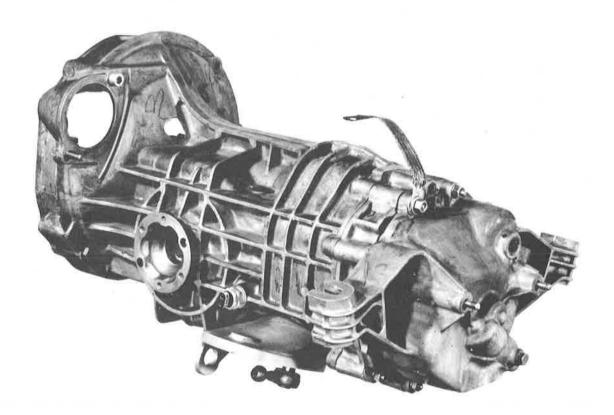


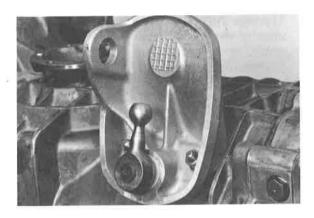
- Intake air distributor
 Pneumatic valve for decelleration
 Bypass line



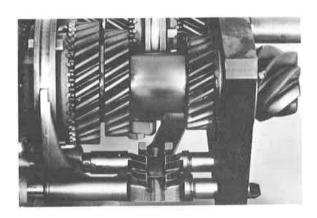
Transmission, gear shift, clutch

Beginning with model year 1973 the 914 vehicles are equipped with a modified transmission. This transmission — type designation 914/12 — is equipped with a side gear shift to improve the shift accuracy.



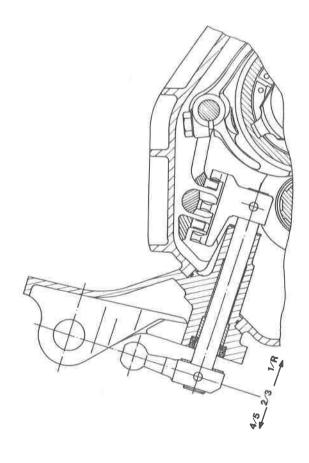


The basic construction of the Type 914/12 transmission corresponds to that of the previous transmission types. The laterally bolted-on shift housing is new.



The selector rails and the rear transmission cover were modified.

The following parts are omitted: The fork piece for the inner selector lever, the selector rails with inner selector lever and the selector shaft on the rear transmission cover.



Gear shifting is effected by a comb-type, three-claw selector finger which moves in a longitudinal direction and engages in the drivers of the selector rails. In the center position the gears 2 and 3 can be engaged; the first and reverse gears can be engaged when the finger is moved up and gears 4 and 5 when it is moved down.

Chassis/wheel alignment	72 HP (DIN)	80 HP (DIN)	95 HP (DIN)
Steering ratio Front axle: Camber Toe-in	17.78:1 0°± 20' +20'±10'	17.78:1 0°±20′ +20′±10′	17;78:1 0°± 20' + 20' ± 10'
Caster Rear axle: Camber Toe-in	6°± 30′ —30′ ± 20′ 0°± 15′	6°± 30′ 30′± 20′ 0°± 15′	6°± 30′ —30′± 20′ 0°± 15′
Wheels and tires			
Standard	4 1/2 × 15 steel 155 SR 15	4 1/2 x 15 steel 155 SR 15	5 1/2 x 15 LM forged 165 HR 15
C-Pack	5 1/2 x 15 steel 165 SR 15	5 1/2 × 15 steel 165 SR 15	
SW (special option)	4 1/2 x 15 steel 165 SR 15	5 1/2 × 15 steel 165 SR 15	
	5 1/2 × 15 LM cast 165 SR 15	5 1/2 × 15 LM cast 165 SR 15	
Winter tires	155 SR 15 MS(E) on 4 1/2 \times 15 165 SR 15 MS(E) on 4 1/2 \times 15 or 5 1/2 \times 15	15 15 or 5 1/2 × 15	
Tire pressures, cold front/rear — kg/cm² psi	1.8/2.0 or 2.0/2.2 on winter tires 26/29 or 29/32 on winter tires	tires tires	

Dimensions	72 HP (DIN)	80 HP (DIN)	95 HP (DIN)
Wheelbase mm (in.)	2450 (96.50)	2450 (96.50)	2450 (96.50)
Track mm (in.) front 41/2×15 51/2×15 rear 41/2×15 51/2×15	1331 (52.402) 1343 (52.874) 1371 (53.976) 1383 (54.449)	1331 (52.402) 1343 (52.874) 1371 (53.976) 1383 (54.449)	1331 (52.402) 1343 (52.874) 1371 (53.976) 1383 (54.449)
Turning circle diameter m (ft)	approx. 11.0 (36.0)	approx. 11.0 (36.0)	approx. 11.0 (36.0)
Road performance			
Maximum speed (km/h (mph)	170 (106)	175 (109)	185 (115)
Acceleration 0 -100 km/h (vehicle empty as per DIN + 1/2 payload) sec.	14.5	13.0	11.0
Standing kilometer (vehicle empty as per DIN + 1/2 payload) sec.	36.0	34.5	32.5
Power/weight ratio kg/HP (kg/kW) as per DIN 70020 (950 kg)		11.85 (16.1)	



To increase ground clearance and assist the guide plates to dissipate excess heat under the vehicle, the rear apron has been shortened.



All vehicles will be equipped with a speedometer reading up to 150 mph.



Basic equipment 2.0 liter vehicles are provided with a combined instrument containing an oil temperature gauge.



For the Porsche 914/2.0 liter a center console is offered. The console houses a clock, an oil temperature gauge and a voltmeter (battery). The gear shift lever is provided with a

leather boot.



The front bumpers are provided with overriders.

There is also additional lateral reinforcement for the front bulkhead.

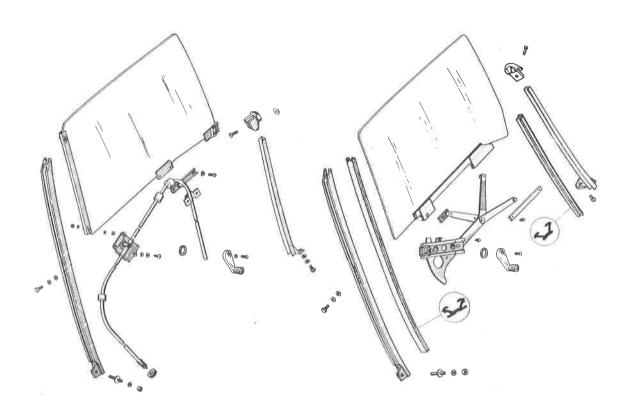


A summary of all modifications is listed on page 48.

The door window operating mechanisms have been completely redesigned.

The crank handle now operates a gear segment, which raises the window by means of a lift rail with 2-point support.

The inner door panel has been reshaped to accommodate the new window lift mechanism.



Summary of modifications to 914 vehicles — Model 73

Loudspeaker cover panel	 Cloth secured behind grille with adhesive (improved appearance)
Beige carpet now of a darker shade	 Less affected by dirt
Air outlet slot at windshield now framed	Visual improvement
Wire mesh under air outlet slot in front of windshield	Prevents blockages
Black door handles and window crank handles	- Visual improvement
Sloping footrest for passenger	- Improved comfort
'Baryfoam' mat in rear luggage compartment	 Improved heat insulation
Sound-absorbing mat in engine compartment	- Improved noise barrier
Complete interior trim	- Change to flame resistant materials

Mass and force data			72 HP	80 HP	95 HP
Vehicle empty (to DIN standard)	N standard)	kg (lbs)	970 (2139)	970 (2139)	970 (2139)
Permitted total forces (static)	s (static)	kp/N/lbs	1220/11968/2690	1220/11968/2690	1220/11968/2690
Permitted front axle force (static)	force (static)	kp/N/lbs	650/6377/1433	650/6377/1433	650/6377/1433
Permitted rear axle force (static)	orce (static)	kp/N/lbs	650/6377/1433	650/6377/1433	650/6377/1433
			4		
Vehicle dimensions					
Length incl. bumper overriders	overriders	mm (in.)	4050 (159.4)	4050 (159.4)	4050 (159.4)
Width		mm (in.)	1650 (65.0)	1650 (65.0)	1650 (65.0)
Height (unladen)		mm (in.)	1230 (48.4)	1230 (48.4)	1230 (48.4)
Ground clearance at permitted gross weight with $155 \times 15/4 1/2 \times 15$ tires	permitted gross 5/4 1/2 x 15 tire	mm (in.)	120 (4.724)	120 (4.724)	120 (4.724)
with 165 x 1!	with $165 \times 15/5 1/2 \times 15$ tires	Si	130 (5.118)	130 (5.118)	130 (5.118)
Filling capacities					
Fuel tank	liter (Imp. gal/US gal)	/US gal)	62 (13.6/16.4) [6 (1.3/1.6) reserve]) reserve]	
Brake fluid	liter (Imp. pts/US qts)	s/US qts)	approx. 0.35 (0.6/0.37)		
Windshield washer	liter (Imp. pts/US qts)	s/US qts)	approx. 2.5 (4.4/2.65)		