914

Printed in Germany Copyright by Dr.-Ing. h. c. F. Porsche Aktiengesellschaft **4528.21** MODEL 74

PORSCHE+AUDI
A DIVISION OF VOLKSWAGEN OF AMERICA INC.



MODEL '74

In essence the model 74 changes of the VW-Porsche 914/2.0 ltr. are limited to the compliance with the safety regulations issued by the different countries and a few furnishing details such as:

Sport steel rims Changed symbols for the control switches Reduced forward longitudinal adjustment of the seats Three-point safety belts

Additional rear bumper horns Starter detention interlocked with safety belts more attractive improved readability

(mandatory in Germany effective 1.1.74) (USA only) (USA only)

Details as to the equipment furnished may be learned from the survey chart.



Chart of 914/2.0 vehicle types, model 74

No. of	speeds	-		Ŋ	വ	വ	D.
	-,						47
Gearbox	Туре			914/12	914/12	914/12	914/12
Η				100	100	92	92
Engine	Swept volume Itr.			2.0	2.0	2.0	2.0
Area of delivery	.2			world-wide except North America	world-wide except North America	North America only	North America only
Sales type nomenclature				Basic equipment	Comfort equipment	Basic equipment	Comfort equipment
		9	Gearbox	4	4	4	4
		2	∃engine	_		4	4
O		4 j	Equipmen	2	က	4	Ω
Order type No.	_	က	ngisəQ	က	က	က	က
der t	Numeral	2	IsboM	_	7	_	7
Ö	ž		Tγpe	4	4	4	4

DESCRIPTION OF STANDARD AND APPEARANCE GROUP OF TYP 914 MODEL YEAR 1974

Index 2 = Standard equipment worldwide -2,0 ltr.

Black bumpers with chromed grills, Sport-wheels (Steel) $5\,1/2\times15$ with tires $165\,HR\,15$, laminated windshield, Vinyl covered roll bar with chrome strips and pile type carpet Shoulder/Lap Belts

Index 3 = Appearance group, worldwide 2,0 ltr.

Black bumpers with chromed grills, Sport-wheels (Steel) 5 1/2 x 15 with tires 165 HR 15, laminated windshield, Vinyl covered roll bar with chrome stips and pile type carpet. Iodine head lights, leatherette covered steering wheel, dual tone horn, center console with instruments and leather boot for shift lever. Automatic Seat Belts

Index 4 = Standard equipment USA/Canada 2,0 ltr.

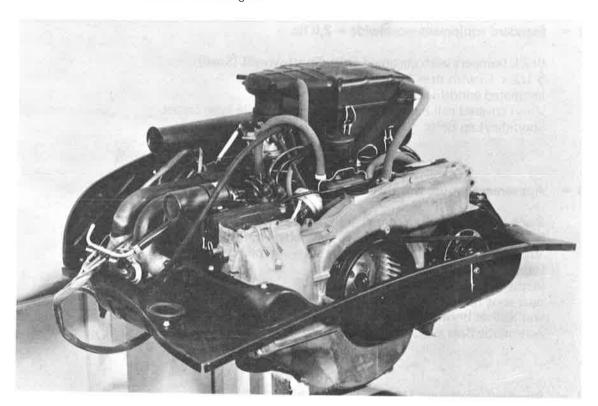
Black bumpers with chromed grills,
Sport-wheels (Steel)
5 1/2 x 15 with tires 165 HR 15
Vinyl covered roll bar with chrome strips and pile type carpet

Index 5 = Appearance group USA/Canada 2,0 ltr.

Black bumpers with chromed grills, Sport-wheels (Steel) 5 1/2 x 15 with tires 165 HR 15, Vinyl covered roll bar with chrome strips and pile type carpet, leatherette covered steering wheel, fog lights in front bumper, dual tone horn, center console with instruments and leather boot for shift lever

ENGINE

The engines of the 914/2.0 ltr. vehicle types were subjected to minor corrections only. The technical data remained unchanged.



Technical data 914 Model 74

Engine (code letter)		95 HP (GA)	100 HP (GB)
Number of cylinders Bore/mm (inch) Stroke/mm (inch) Displacement/cu. cm (cu. inch) Compression ratio Engine capacity		4 94 (3.701) 71 (2.793) 1971 (120.27) 7.6 : 1	4 94 (3.701) 71 (2.793) 1971 (120.27) 8.0 : 1
DIN 70020 — HP (kW) max. torque		95 (70) b. 4900	100 (73.5) b. 5000
DIN 70020 — kpm (Nm) Litre capacity — HP/I (KW/I) Required fuel octanes ROZ Standard fuel consumption (I/100 km) Engine weight kg (Ibs) Oil quantity required		15.0 (147) b. 3500 48 (35) 91 8.0 app. 140 (308) app. 3.5 I HD-oil as per API-	16 (157) b. 3500 51 (37) 95 7.8 app. 140 (308) classification SD or SE
Electrical system			
Operating voltage Battery capacity Alternator output Firing order Ignition timing Spark plug gap Grade of suppression	V Ah W	12 45 700 1-4-3-2 from top D.C. at 3500 Rpm Bosch W 175 T 2 (0.7) Beru 175/14/3 (0.7) VDE 0879 Part 1 resp. ECE Regl. No. 10	12 45 700 1-4-3-2 27° from top D.C. at 3500 Rpm Bosch W 175 T 2 (0.7) Beru 175/14/3 (0.7) VDE 0879 Part. 1 resp. ECE Regl. No. 10

Engine index (Numeral 5)

Index	Swept volume ltr.	Fuel system	HP	Country
1	2.0	Electronic Injection	100	world-wide except North America
4	2.0	Electronic Injection	95	North America

Gearbox index (Numeral 6)

Index

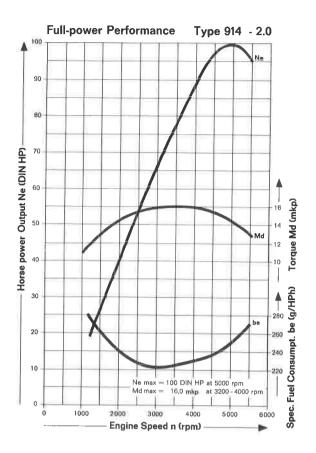
4 5-speed gearbox

Composition of chassis No.

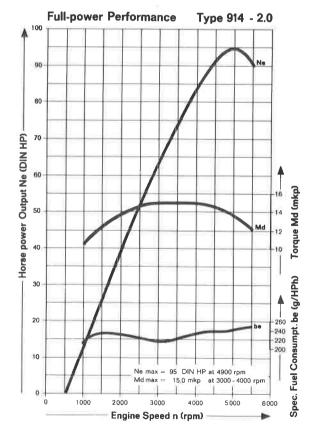
chassis No. 47 42 900 001

type series model year sequential No.

32 = 197342 = 1974



The 100 HP maximum output are obtained at 5000 rpm engine speed. Maximum torque of 16 mkp is obtained within the speed range 3200 to 4000 rpm.



The USA version reaches 95 HP at 4900 rpm and a torque of 15 mkp from 3000 to 4000 rpm.





Engine

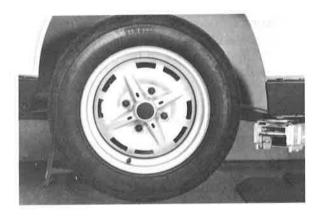
The throttle of the USA engines is equipped with an additional spring on the throttle valve shaft to ensure throttle valve return to the idling position.

The accelerator bowden cable was changed for improved operation.

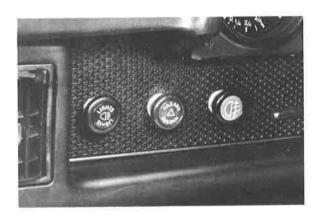


Body and chassis

The vehicles delivered to the USA are equipped with rubber horns on the rear bumpers.



The basic equipment of all vehicles includes sport steel rims. The rim offset is 41 mm.



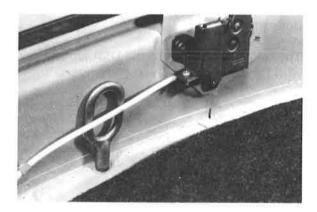
The symbols of some controls were changed. The changes apply to:

Control button for headlights and foglights

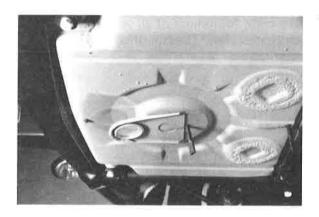


and to the heating/fresh air controls.

The indicating range with the combination instrument and oil temperature indicator was changed to $30^{\circ}\text{C} - 170^{\circ}\text{C}$ (previously $60^{\circ}\text{C} - 200^{\circ}\text{C}$). The remote control thermometer remained unchanged.



The new tow eye is now mounted in a bore of the front partition.



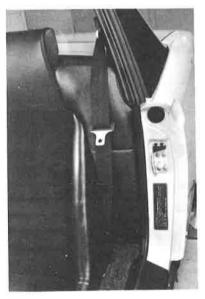
The front tow eye, mounted to the front bottom, was changed in design. The space between the tow eye and front bottom was increased.



The lateral defroster nozzles are now equipped with a lever in place of the previously used knurl (for lateral adjustment) in order to simplify the operation.



The longitudinal seat adjustment of the two seats in forward direction was reduced.



All vehicles have three-point safety belts as standard equipment (mandatory by law in Germany as of 1.1.74). Automatic belts are available as optional equipment.



All vehicles delivered to the USA are equipped with a safety belt warning system.

The warning system prevents the engine from starting as long as the belts are not properly applied.

A logic relay located underneath the passenger's seat controls the warning system.

Design

The warning system consists of:

seat contacts in the two seats, lock contacts in the two safety belt locks, a logic relay with a buzzer underneath the passenger's seat, a red warning light "FASTEN SEAT BELTS" in the instrument panel.

Function

Starting the engine requires:

1. The belts must be fastened when the seats carry a **load**. (Same conditions apply for the passenger's seat — if heavy items such as luggage are placed on the passenger's seat, the belt must be fastened).

Important:

The "logic sequence": loading of seat — fastening belt — starting — must be adhered to.

If this sequence is not maintained, the engine will not start (interruption of starter circuit).

- 2. If the engine has been running, it can be restarted within 2 min. ± 1 min after being stopped, without the belts being fastened.
- 3. The engine will start when the seats are **not loaded** (e. g. from the outside).

When the engine operates, optical and acoustic signals will be given if:

- 1. The seat is loaded but the belt is not fastened.
- 2. The "logic sequence" is not maintained.
- 3. The seat with belt fastened is unloaded for longer than 10 sec. and then reloaded.

(These warning signals operate only while the emergency brake is disengaged — they can be stopped by repeating the procedure in the "logic sequence").

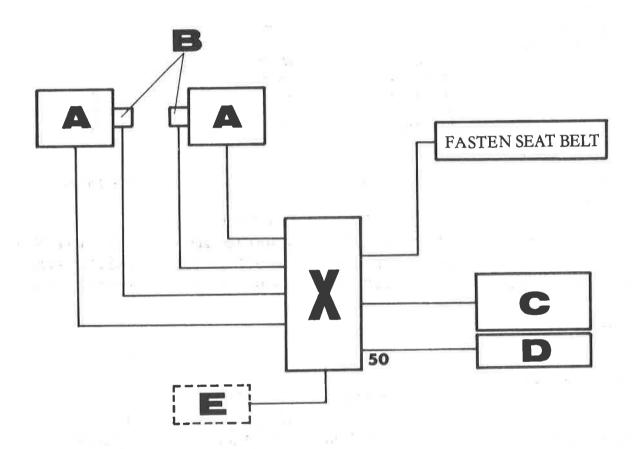
Operation of logic relay

The logic relay (X) is controlled by the following components:

by the seats	seat contacts	(A)
by the safety belts	 lock contacts 	(B)
by the engine	oil pressure	(C)
(by the emergency brake)	 emergency brake contact 	(E)

The control pulses received are computed; the logic relay controls:

the power for the starter (D) via terminal 50 as well as the optical acoustic warning system.



Power transmission			95 HP	100 HP	
Clutch Transmission	1st speed 2nd speed 3rd speed 4th speed 5th speed reverse speed	ed ed ed peed	single disc dry clutch 11/34 i = 3.090 18/34 i = 1.889 23/29 i = 1.261 27/25 i = 0.926 31/22 i = 0.710 11/16 20/43 i = 3.127 7/31 i = 4.429	= = = = =	
Weight of gearbox			app. 47 kg ready for ins including oil and starter		
Required quantity of oil			app. 2.5 ltr. gear oil SAE 90, specification MIL-L-2105 B		
Climbing capacity (calculated values)					
Vehicle mass kg empty as per DIN			1095	1085	
+ half permissible load	1st spee 2nd spee 3rd spee 4th spee 5th spee	d d d	65.0 % 34.0 % 20.5 % 14.0 % 9.0 %	70.5 % 36.0 % 21.5 % 14.0 % 9.5 %	
Masses and forces					
Vehicle empty as per DIN		kg (lbs)		950 (2095)	
Vehicle empty as per DIN for USA and Canada		kg (Ibs)	970 (2139)		
Permissible total forces (sta	•	kp/N/Ibs	1220/11968/2690	1220/11968/2690	
Permissible front axle force		kp/N/Ibs	650/6377/1433	650/6377/1433	
Permissible rear axle force (static)		kp/N/Ibs	650/6377/1433	650/6377/1433	
Vehicle dimensions					
Length		mm		3985	
Length with bumper horns (USA)		mm (inch)	4095 (161.2)		
Width		mm (inch)	1650 (65.0)	1650 (65.0)	
Height unloaded		mm (inch)	1230 (48.4)	1230 (48.4)	
Ground clearance at permissible total weight		mm (inch)			
with tyres 165 x 15/5 1/	2 x 15	,,,,,,	130 (5.118)	130 (5.118)	
Filling capacities					
Fuel tank Brake fluid Windscreen washer		ltr. ltr. ltr.	62 (6 reserve) app. 0.35 app. 2.5	62 (6 reserve) app. 0.35 app. 2.5	

Chassis/Wheel Position			95 HP	100 HP
Steering reduce Front axle:	ction ratio camber toe caster		17.78 : 1 0° ± 20' + 20' ± 10' 6° ± 30'	17.78 : 1 0° ± 20' + 20' ± 10' 6° ± 30'
Rear axle:	camber toe		- 30' ± 20' 0° ± 15'	- 30' ± 20' 0° ± 15'
Tyre pressure	cold, front/rear			
	kp/sq. cm psi		1.8/2.0 26/29	=
Dimensions				
Wheel base	mm (inch)		2450 (96.50)	2450 (96.50)
Track	mm (inch) front rear	5 1/2 x 15 5 1/2 x 15	1343 (52.874) 1383 (54.449)	1343 (52.874) 1383 (54.449)
Turn circle	m (ft)		app. 11.0 (36.0)	арр. 11.0 (36.0)
Performance				
Max. speed	km/h (mph)		185 (115)	190 (118)
(Vehicle emp	0 – 100 km/h ty half permissible lo	ad)		
	sec.		11.0	10,5
(Vehicle emp	half permissible lo	ad)	20 5	22.0
Mass per unit	sec.		32.5	32.0
kg/HP resp.kg as per DIN 70	(kW)			9.5 (12.9)
Mass per unit kg/HP resp. (I per SAE J 24		kg)	10.7 (14.2)	

Performance			95 HP	100 HP	
Max. speed	ax. speed km/h (mph		185 (115)	190 (118)	
Acceleration 0 – 1 (Vehicle empty as per DIN + half p		sec.	11.0	10.5	
Kilometer with star start (Vehicle empt as per DIN + half p	У	sec.	32.5	32.0	
Mass per unit of po kg/HP resp. kg (kW as per DIN 70020 ()			9.5 (12.9)	

