# TESTS Citroen 2400 CX GTi • Peugeot 504 T



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**RTF 565S** 

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WEEK ENDING JANUARY 28 - 1978

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# Road Test PEUGEOT 504 T1

Power steering makes a much nicer car around town, and its performance, economy, ride, handling and refinement are all competitive

SINCE we last tested a Peugeot 504 (a GL in 1974) there have been many new arrivals in the two-litre class, among them the Citroen CX, Leyland Princess, new Audi 100, and Renault 20TS, so standards have risen appreciably.

In that 1974 test we reported quite favourably on the Peugeot. Its only serious failing was, as it always had been, ponderous low-geared steering. Now, on the TI version as tested here, power assisted steering is fitted as standard, but apart from this the 504 has remained essentially unchanged since it was voted Car of the Year after its 1968 debut.

WLC 763S

We were curious to discover whether the adoption of power steering has been enough to keep the Peugeot abreast of rising standards, or whether it has been surpassed by the new generation of two-litre executive cars. At £4623 (the carburetted GL costs £4210) the fuelinjected TI is competitively priced — cheaper than the Audi 100LS (£5145), Renault 20TS (£4724) and Volvo 244DL (£4769), but more expensive than the Citroen CX 2000 (£4495), Fiat 132 (£4226) and the Princess 2200 HLS (£4320), all of which also have power steering as standard. Other alternatives (without power steering) include the Datsun Laurel Six (£4095), Saab 99 GLS (£4575) and the very keenly priced Toyota Cressida at £3,646. Among fuel-injected cars, however, only the VW Golf GTi is cheaper. In TI form the 504's 1971 cc

In TI form the 504's 19/1 cc engine produces 106 bhp (DIN) at 5200 rpm, 10 bhp more than the carburetted GL 8 which has the







The interior is dominated by the huge steering wheel and the facia is dated and unattractive to our eyes. Electric window switches are on the console

consumption of the injected engine, but with a 12.3-gallon tank capacity a maximum range of 300 miles or more should be quite feasible.

It is difficult to fault the 504's transmission: a smooth and nicely weighted clutch action is combined with a particularly light and precise gearchange. The ratios are well spaced apart from an excessive gap between second and third. Our only other complaint is of some whine in the intermediates. The gearing in top is on the high side for a hefty two-litre (the TI has a 3.8:1 final drive compared to the GL's 3.9) yet, even so, the engine speed is well past peak power revs at maximum speed, suggesting that higher gearing still would improve the top speed and make cruising even more restful. The 504TI has benefited enorm-

The 504TI has benefited enormously from the adoption of power steering, which contributes to the car's new easy-driving nature. However, as power-assisted systems go it is not particularly notable compared to those available from Renault, Mercedes and Rover. The opportunity has been taken to make the steering much "quicker" and it now only requires  $3\frac{1}{2}$  turns from lock to lock compared to the non-assisted car's arm-twirling  $4\frac{1}{2}$  turns. Thus it is now responsive, accurate, and very light — rather too light and feel-less for our taste. It is a pity that the over-large steering wheel of the non-assisted cars has been retained: so much leverage is no longer necessary and it makes the steering feel lower-geared than it is.

Although the steering has little feel, on a wet road it is possible to detect impending loss of adhesion. When the limit is reached in the wet it is the tail which goes first — and at fairly modest speeds. In the dry the limit of adhesion is high and most of the time the Peugeot handles neatly with mild understeer and not too much body roll. The transition to oversteer on the limit is fairly abrupt, but few drivers are ever likely to reach this point on a dry road.

With large disc brakes on all four wheels the Peugeot ought to stop well — and it does. We never encountered fade and the car always

same aluminium cylinder head with inclined valves in nearhemispherical combustion chambers, operated by push-rods and twin rocker shafts.

The all-independent suspension is by MacPherson struts at the front and semi-trailing arms at the rear, with coil springs and an anti-roll bar at each end. Braking is by discs on all four wheels and the steering is by rack and pinion.

The advantages offered by the injected engine extend beyond its superior performance. Whereas we have found carburetted 504s to suffer from hesitations and flat spots, the TI is notable for its clean throttle response and smooth power delivery. In poor conditions our test car lapped MIRA at 103.9 mph, and accelerated from rest to 60 mph in 11.4 sec, and did 30-50 mph in top gear in 9.9 sec. These figures are about par for the class. Moreover, this performance is very useable too: although the engine sounds busy from about 4500 rpm, it is commendably smooth and unstrained throughout its rev range.

The TI also proved reasonably economical, returning a consumption of 23.1 mpg overall — a little better than the class norm. We were unable to measure the touring



The seats look good, and are very comfortable, in the rear as well as the front, with a reasonable amount of legroom available. The rear seat central arm rest and the retracting front seat headrests are all part of the standard specification

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Not many cars have a sliding steel sunroof, least of all in this price range, but it is standard on the Ti and carburetted GL models

pulled up safely without drama. Most of our drivers liked the rather heavy pedal, which made the brakes progressive and easy to feather, but women drivers might find them too heavy for comfort.

Now that many cars in the class have adopted a space-saving frontwheel drive configuration, the Peugeot is no longer unusually capacious, though the accom-modation is still generous. The front seats do not go as far back as those of most rivals, so tall drivers could use more legroom. But headroom is generous front and back, and even with the front seats right back there is sufficient legroom behind for a man of average height. The rear seat is particularly comfortable.

The boot is very large, and for interior storage there is a tray on the centre console, map pockets on the front doors, a parcel shelf and a lockable glove box.

There was a time when its ride was arguably one of the 504's best features but rivals have caught up with, and even surpassed it. All the same, the 504 is still a comfortable car to ride in. At low speeds it feels quite firm and sometimes a manhole cover or transverse ridge can transmit a jarring to the interior which is heard more than felt. At higher speeds the ride is very even and well damped on long-wavelength undulations: it is also particularly well behaved on really rough surfaces, and on unmade roads.

Apart from the limited legroom for our tallest driver, the seat and controls suited our testers well, though one commented that the seat cushion seemed rather short, and all would have preferred a smaller steering wheel. Although initially soft, the seats have an underlying firmness and prove comfortable for long distances.

There are two column stalk switches, the right-hand one operating the indicators and horn (the latter by pulling the stalk towards the driver); it has an irritatingly loose and floppy feel, and the self-cancelling tends to be erratic. The over-worked stalk on the left has a lot to do, operating the wash, wipe and lights in a rather confusing way.

Instrumentation and the facia design remain weak points, the former consisting of a speedometer calibrated only at 20 mph intervals, a tachometer that gives no indication of the maximum revs allowed, a volt

meter, and water temperature and fuel gauges. All are readable, but unattractive in appearance, and the bold chrome strip along the facia was universally disliked.

The heating and ventilation systems have four slide controls which, once mastered, operate a flexible system, with a rheostat fan speed control. Warmth takes a long time to come through after a cold start, and even at its best the heat output is modest. For the same reason demisting is slow, especially that of the side windows by means of the cheese-cutter vents at the outer ends of the facia. On the other hand the ventilation, through two rather ugly vents atop the centre of the facia, is effective and throughput and distribution easy to control.

Overall the 504 has a pleasant air of refinement, while not being exceptionally quiet in any department. The engine becomes busy, though not unpleasant, when revved over 4500 rpm, and is relaxed when cruising at 70 mph — indeed, it is possible to cruise without mechanical strain at speeds of 90 mph or more. Road roar is fairly well suppressed, while wind noise is particularly sensitive to the strength and the direction of the wind outside: on a still day or with a tail-wind it is negligible, but in a cross-wind or head-wind becomes noticeable at speeds as low as 50 mph and gets progressively worse as speed rises further.

The interior decor is a mixture of good and bad. We don't like the dated, rather austere facia and the door trims are rather plasticky in appearance. But the seats, with their built-in retractable headrests, look as good as they feel, being attractively trimmed in brushed nylon. Included in the TI specification is a sliding steel sunroof, and electric front windows operated by handy switches on the centre console behind the gearlever. Other worth-while standard fittings include halogen headlamps and a rear seat central armrest.

For about £400 more than the GL, the 504 in TI form offers a lot extra: not only has it superior performance and better driveability, but the power steering makes it much easier to drive, especially in town.

Compared to the opposition, the 504 is still a worthy contender in its class.

# MOTOR ROAD TEST NO 4/78 **PEUGEOT 504 TI**

#### PERFORMANCE

Temperature 48-50 Barometer 29.6	d 6-16 mph 0°F in Hg tarmacadan	n
MAXIMUM SPEEDS Banked Circuit Best 1 mile Terminal Speeds:	mph 103.9 105.9	kph 167.2 170.4
at 1 mile at kilometre Speed in gears (at 600	76 92	122 148
1st 2nd 3rd	32 54 83	51 87 134
ACCELERATION FROM mph sec 0-30 3.5 0-40 5.5 0-50 7.9 0-60 11.4 0-70 15.5 0-80 20.9 0-90 30.6 Stand'g $\frac{1}{4}$ 18.3	A REST kph 0-40 0-80 0-100 0-120 0-140 Stand'g kr	5.0 7.9 12.3 17.9 26.8
ACCELERATION IN TO mph sec 20-40 10.2 30-50 9.9 40-60 10.2 50-70 10.9	kph 40-60	6.3 6.2

Overall	IMP	23.1	mpg	s/100	km
Fuel grade		95 c	octan	e	
Tank capacity	,	12.3	ar ra gall itres	s	
Test distance	1	112	5 mil 0 km	es	
SPEEDOMET Speedo	ER	mph	)		
	50	60	70	80	90
27 36.5 Distance rec					
WEIGHT					
Unladen wei Weight as te *with fuel fo	stec	1	50 n	cwt 23.8 27.5 niles	
Performance staff at the	tes	ts ca	rried	out b	y Motor's Research

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#### **GENERAL SPECIFICATION**

#### Slant 4, in-line Cylinders Capacity 1971 cc (120.2 cu in) 88/81 mm Bore/stroke (3.46/3.19 in) Cooling Water Cast iron Aluminium Block Head Valves Valve timing ohv inlet opens inlet closes 3° btdc 44° abdc 33° bbdc 9° atdc ex opens ex closes Compression 8.8:1 Carburetter Kugelfischer fuel injection 5 main 106 bhp (DIN) at 5200 rpm 124.4 lb ft (DIN) at 3000 rpm Bearings Max power Max torque TRANSMISSION 4-speed manual, rwd Type Clutch Clutch Sdp, diaphragm spring Internal ratios and mph/1000 rpm 4th 1.00:1/18.9

sra	1.37.1/13.0	
2nd	2.11:1/9.0	
1st	3.56:1/5.3	
Rev	3.64:1	
nal drive	3.8:1	

#### BODY/CHASSIS

Fir

ENGINE

Monocoque all steel Wax over underbody, bitumen compound\*under Construction Protection wheel arches and door sills, wax injection into box sections and doors

#### SUSPENSION Front

Rear

Toe in Camber

Castor

Type

Servo

Circuit

Rear valve

WHEELS

ELECTRICAL

Battery Polarity

Fuses

Generator

Headlights

Type

Tyres

MacPherson struts, coil springs, anti-roll bar Ind: semi-trailing arms, coil springs, anti-roll bar

#### STEERING Rack and pinion Type Assistance. Yes 3±1 mm 0°38'±30' 2°40'±30' King pin Rear toe-in 8°54'±30' 4.5 mm+1 mm

BRAKES

Discs all round Yes Split front/rear Yes Adjustment Automatic

#### Steel 5J × 14 steel 175 ×14 Michelin XAS Pressures

23/27 psi front/rear

#### 12V, 44Ah Negative earth 500W alternator 2 × Halogen H4 55W

Make: Peugeot Model: 504 TI

Makers: Automobiles Peugeot, 75 Ave de la Grande Armee, Paris

UK Concessionaires: Peugeot UK, Peugeot House, Western Ave, London W3 0RS. Tel: 01-993 2331.

Price: £3,951 Basic plus £329.25 Car Tax plus £342.42 VAT equals £4,622.67. Extra fitted to test car was metallic paint finish, £79.56

# MOTOR week endin January 28, 1978 peugeot504.info

#### **PEUGEOT 504 Ti**



## LANCIA BETA 2000 ES

## 345 100 55.5 40% 60% 665 168-8

### **LEYLAND PRINCESS 2200 HLS**



# **RENAULT 20 TS** £4,724 63

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Power, bhp/rpm	110/5500
Torque, lb ft/rpm	125/3000
Tyres	165SR14
Weight, cwt	24.2
Max speed, mph	103.8
0-60 mph, sec	12.2
30-50 mph in 4th, sec	11.9
Overall mpg	22.1
Touring mpg	26.6
Fuel grade, stars	4
Boot capacity, cu ft	11.8
Test Date	December 3, 1977

#### been improved by styling changes, more power and higher gearing. Fuel consumption is mediocre, the brakes are too sensitive, the gear change notchy, and the steering still low geared at low speed - but roadholding is excellent, the ride but good, the performance above average, the interior capacious and it is very comprehensively equipped. A car we like and respect.

ugly facia remain weak points.

An excellent car that has recently

Power steering, now standard on TI.

now combines with smooth engine and transmission to make the 504 a pleasant and relaxed car in town as well as on the open road. Respectable performance and economy, and still good ride and refinement though no longer top of its class. Comfortable, spacious and well equipped (sliding sun roof and electric windows standard, it also has good ventilation. Feeble heating and

Tested by us as a Wolseley 2200, but only name and nose changed since. Version assessed was a manual but automatic versions available. Hydragas suspension gives excellent handling (aided by good power steering) and smooth ride. Comfortable and refined with multiadjustable seat and low noise levels. Very roomy but boot is difficult to load and the instrument faces reflect. One of Leyland's best efforts for vears.

Excellent addition to Renault's executive car line-up. New 2-litre engine gives fair performance and average fuel consumption. Pleasant power steering enhances very good handling, and the ride is excellent. Comfortable seats, commodious interior, very high level of equipment. Too much noise from engine and the ventilation. Dearer than most competitors, but has the advantage of a lifting tailgate.



103/5000
138/3000
175SR13
22.8
103.5
11.3
8.6
25.2
29.2
4
10.1
July 24, 1976

Worthy successor to FE Victor which itself has benefited from continuous improvement since its 1972 introduction. Torquey engine with eased breathing endows this spacious, four-/five-seater with good performance and economy in the manual version tested. Safe handling (though low geared steering), well appointed and comfortable.



Power, bhp/rpm	100/5250
Torque, lb ft/rpm	125/3000
Tyres	175SR14
Weight, cwt	25.2
Max speed, mph	98.0
0-60 mph, sec	12.6
30-50 mph in 4th, sec	10.2
Overall mpg	22.3
Touring mpg	26.8
Fuel grade, stars	3
Boot capacity, cu ft	13.1
Test Date	July 30, 1977

A much more competitive car than it used to be, not only because of notable improvements but also because currency exchange rates have made it relatively less expensive. Still not the most satisfying of cars to drive but good comfort and refinement make it an excellent long-distance tourer. Performance mediocre, running costs better than consumption indicates as it uses cheap fuel. Strong points are its quality, great solidity, and in-built safety.

There is no shortage of 2-litre competition for the Peugeot. Other cars include the Citroen CX 2000 (£4,495), Colt Sigma (£4,220), Fiat 132 (£4,226), Audi 100LS (£5,145) and Saab 99 GLS (£4,575).

106/5200

106.6

11.0

7.4

22.9

26.0

10.2

July 2, 1977

110/5250

125/3500

22.9

105.4

11.8

9.8

22.2

26.4

12.4

July 26, 1975

185/70SR14

		100/32.00
	Torque, lb ft/rpm	124.4/3000
	Tyres	175HR14
	Weight, cwt	23.8
	Max speed, mph	103.9
	0-60 mph, sec	11.4
1	30-50 mph in 4th, sec	9.9
	Overall mpg	23.1
	Touring mpg	N
	Fuel grade, stars	4
	Boot capacity, cu ft	11.9
	Test Date	January 28, 1978
	Power, bhp/rpm	119/5500
	Torque, lb ft/rpm	128/2800
	Tyres	175/70SR14
1	Weight, cwt	21.3

Power, bhp/rpm

Max speed, mph

30-50 mph in 4th, sec

0-60 mph, sec

Overall mpg

Touring mpg

Test Date

Tyres

Fuel grade, stars

Power, bhp/rpm

Torque, Ib ft/rpm

Max speed, mph

30-50 mph in 4th, sec

Weight, cwt

0-60 mph, sec

Overall mpg

Touring mpg

Test Date

Fuel grade, stars

Boot capacity, cu ft

Boot capacity, cu ft

£4,457

£4,320

Max speed, mph	103.9	
0-60 mph, sec	11.4	
30-50 mph in 4th, sec	9.9	
Overall mpg	23.1	
Touring mpg		
Fuel grade, stars	4	
Boot capacity, cu ft	11.9	
Test Date	January 28, 1978	
Power, bhp/rpm	119/5500	
Torque, Ib ft/rpm	128/2800	