

Manufacturers Reference No. for Application

TURNER CLIMAX 1220



F.I.A. Recognition No. ....

81

# ROYAL AUTOMOBILE CLUB

PALL MALL, LONDON, S.W.1.

## Federation Internationale de l'Automobile.

Form of Recognition in accordance with  
Appendix J to the  
International Sporting Code.

Manufacturer TURNER SPORTS CARS (WTON) LTD.

Model CLIMAX SPORTS. Year of Manufacture 1961 - 1962

Serial No. of Chassis 61/— 62/—

Engine FWE. 400

Type of Coachwork 2 SEATER WITH OR WITHOUT HARDTOP.

Recognition is valid from 8 OCT 1962 In category G.T. or Prod. Sports.

Photograph to be affixed here  $\frac{3}{4}$  view of car from front right.



Stamp of F.I.A. to be  
affixed here.



*Handwritten signature*



General description of car:

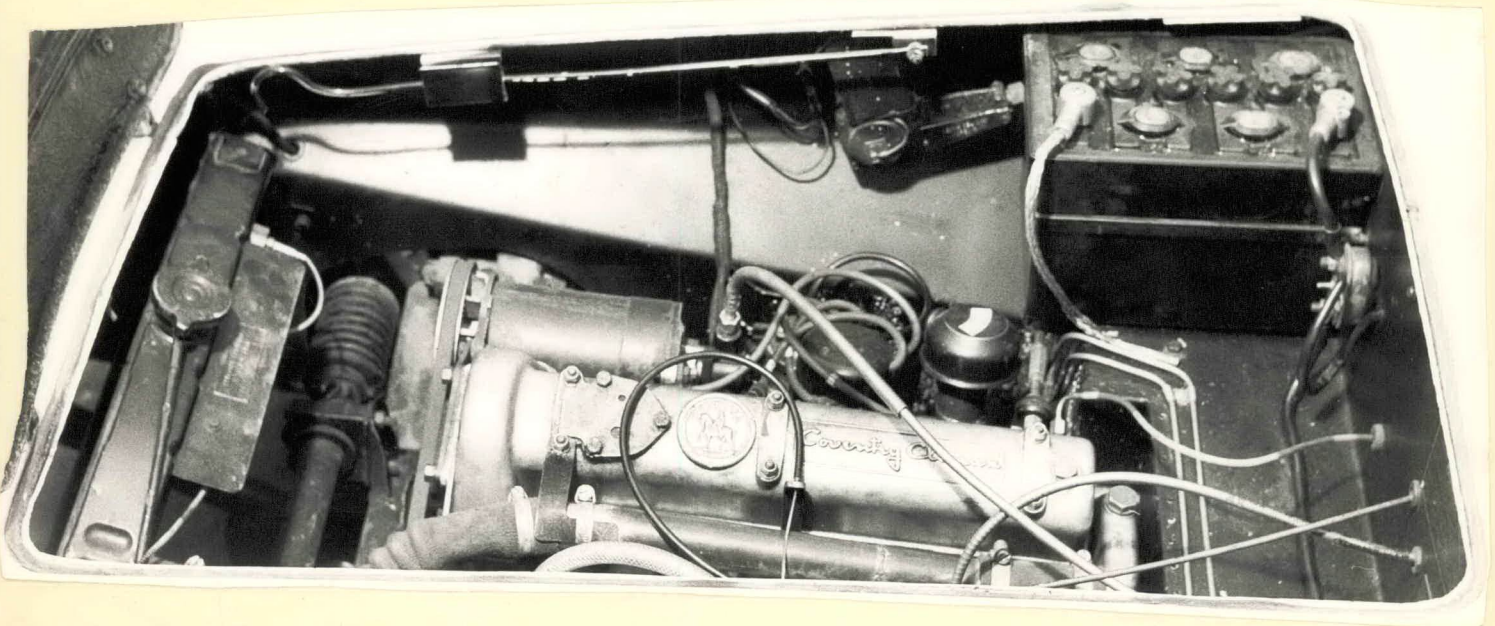


photos to

*3/4 view of car from rear left.*



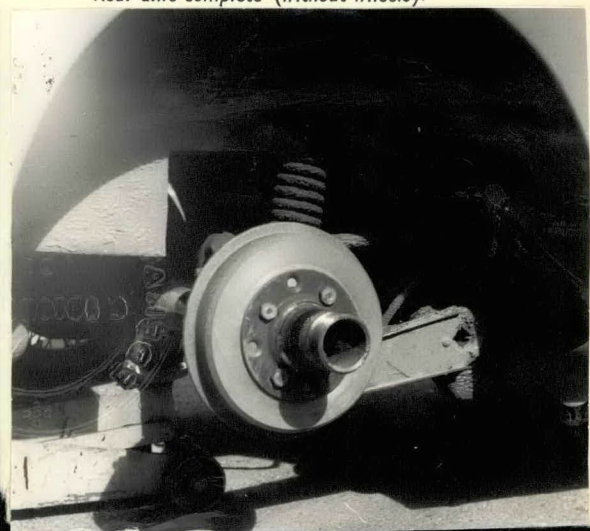
*Interior view of car through driver's door.*



*Front axle complete (without wheels).*



*Rear axle complete (without wheels).*





**ENGINE**

No. of cylinders 4 in line YES  
 in V —  
 opposed —  
 Cycle 4 Firing order 1342  
 Capacity 1216 c.c. Bore 76.2 m.m. Stroke 66.7 m.m.  
 Maximum rebore — Resultant capacity — c.c.  
 Material of cylinder block ALUM Material of sleeves, if fitted CAST IRON  
 Distance from crankshaft centre line to top face of block at centre line of cylinders 190.5 m.m.  
 Material of cylinder head ALUM Volume of one combustion chamber 28.8 c.c.  
 Compression ratio 10-1  
 Material of piston ALUM No. of piston rings 2 comp. 1 scraper.  
 Distance from gudgeon pin centre line to highest point of piston crown 36.207 m.m.  
 Bearings { Crankshaft main bearings: Type SHELL Dia. 53.975 m.m.  
 Connecting rod big end: Type SHELL Dia. 47.62 m.m.  
 Weights { Flywheel 8.618 kg.  
 Crankshaft 11.567 kg.  
 Connecting rod .461 kg.  
 Piston with rings .320 kg.  
 Gudgeon pin .099 kg.  
 No. of valves per cylinder 2 Method of valve operation DIRECT  
 No. of camshafts 1 Location of camshafts O.H.C.  
 Type of camshaft drive DUPLEX CHAIN  
 Diameter of valves: Inlet 34.29 m.m. Exhaust 30.48 m.m.  
 Diameter of port at valve seat: Inlet 28.575 m.m. Exhaust 26.67 m.m.  
 Tappet clearance for checking timing: Inlet 0.254 m.m. Exhaust 0.254 m.m.  
 Valves open: Inlet 30° BTDC Exhaust 60° BBDC  
 Valves close: Inlet 60° ABDC Exhaust 30° ATDC  
 Maximum valve lift: Inlet 8.89 m.m. Exhaust 8.89 m.m.  
 Degrees of crankshaft rotation from zero to—  
 Maximum lift: Inlet 135° Exhaust 135°  
 ¾ Maximum lift: Inlet 75° Exhaust 75°  
 Valve springs: Inlet Exhaust  
 Type COIL COIL  
 No. per valve 2 2  
 Carburettor: Type HORIZONTAL No. fitted 2  
 (up or down draft, horizontal)  
 Make WEBER S.U. Model 38, 40, 45 DGOE HI  
 Flange hole diameter 38 + 1.5" m.m. Choke diameter — m.m.  
 Main jet identification No. —





Make TURNER CLIMAX Model 1220 F.I.A. Recognition No. ....

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### TRANSMISSION

Make of clutch BORG + BECK Type SINGLE PLATE DRY  
Diameter of clutch plate 8" No. of plates 1  
Method of operating clutch HYDRAULIC  
Make of gearbox B.M.C. Type B. Type C/R.  
No. of gearbox ratios 4 + Rev.  
Method of operating gearshift Remote control  
Location of gearshift central  
Is overdrive fitted? NO.  
Method of controlling overdrive, if fitted —

	GEARBOX RATIOS		ALTERNATIVE RATIOS					
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1.	<u>2.25-1</u>							
2.	<u>1.67-1</u>							
3.	<u>1.23-1</u>							
4.	<u>1-1</u>							
5.	<u>—</u>							

Type of final drive HYPOID.  
Type of differential Z. F.  
Final drive ratio 4.2-1 Alternatives 4.5-1, 4.375-1, 5.125-1,  
No. of teeth 9-38 5.375-1.  
Overdrive ratio, if fitted —

### WHEELS

Type MAG. ALLOY Weight ..... kg.  
Method of attachment BOLT ON.  
Rim diameter 15" m.m. Rim width 4" m.m.  
Tyre size: Front 520 x 15" Rear 520 x 15"

### BRAKES

Method of operation HYDRAULIC.  
Is servo assistance fitted? NO.  
Type of servo, if fitted —  
No. of hydraulic master cylinders TWIN Bore 5/8" m.m.

	Front		Rear	
No. of wheel cylinders	2		1	
Bore of wheel cylinders	—	m.m.	—	m.m.
Inside diameter of brake drums	—	m.m.	8"	m.m.
No. of shoes per brake	—		2	
Outside diameter of brake discs	9"	m.m.	—	m.m.
No. of pads per brake	2		—	
Dimensions of brake linings per shoe or pad (if all shoes or pads in each brake are not of same dimensions, specify each)				

	Front		Rear	
Length	2"	m.m.	7 <sup>3</sup> / <sub>4</sub> "	m.m.
		m.m.		m.m.
Width	1 <sup>1</sup> / <sub>2</sub> "	m.m.	1 <sup>1</sup> / <sub>2</sub> "	m.m.
Total area per brake	6 sq. ins.	m.m. <sup>2</sup>	11.625 sq. ins.	m.m. <sup>2</sup>

### SUSPENSION

	Front	Rear
Type	INDEPENDENT COIL	TRAILING ARM
Type of spring	COIL	TORSION BAR.
Is stabiliser fitted?	YES	NO.
Type of shock absorber	LEVER	TELESCOPIC.
No. of shock absorbers	ONE EACH SIDE	ONE EACH SIDE.

### STEERING

Type of steering gear..... RACK & PINION

Turning circle of car..... 32' ..... m., approx.

No. of turns of steering wheel from lock to lock..... 2<sup>1</sup>/<sub>4</sub>

### CAPACITIES AND DIMENSIONS

Fuel tank..... 10 gals. .... litres      Sump..... 1 gal. .... litres

Radiator..... 1<sup>1</sup>/<sub>2</sub> gals. .... litres

Overall length of car..... 11' 6" ..... cm.      Overall width of car..... 4' 6" ..... cm.

Overall height of car, unladen (with hood up, if appropriate)..... 48" ..... cm.

Distance from floor to top of windscreen:

    Highest point..... 35" ..... cm.      Lowest point..... 34" ..... cm.

Width of windscreen:

    Maximum width..... 49" ..... cm.      Minimum width..... 42" ..... cm.

\*Interior width of car..... 47<sup>1</sup>/<sub>2</sub>" ..... cm.

No. of seats..... 2

Track: Front..... 3' 9<sup>1</sup>/<sub>2</sub>" ..... cm.      Rear..... 3' 8<sup>3</sup>/<sub>4</sub>" ..... cm.

Wheelbase..... 6' 10" ..... cm.      Ground clearance..... 5" ..... m.m.

\*(To be measured at the immediate rear of the steering wheel, and the width quoted to be maintained in a vertical plane of not less than 25 cms.)

Overall weight with water, oil and spare wheel, but without fuel..... 10 cwt. .... kgs.



**Additional information for cars fitted with two-cycle engines**

System of cylinder scavenging.....

Type of lubrication.....

**Size of inlet port:**

Length measured around cylinder wall..... m.m.

Height..... m.m. Area..... m.m.<sup>2</sup>

**Size of exhaust port:**

Length measured around cylinder wall..... m.m.

Height..... m.m. Area..... m.m.<sup>2</sup>

**Size of transfer port:**

Length measured around cylinder wall..... m.m.

Height..... m.m. Area..... m.m.<sup>2</sup>

**Size of piston port:**

Length measured around piston..... m.m.

Height..... m.m. Area..... m.m.<sup>2</sup>

Method of pre-compression.....

Bore and stroke of pre-compression cylinder, if fitted..... m.m.

Distance from top of cylinder block to lowest point of inlet port..... m.m.

Distance from top of cylinder block to highest point of exhaust port..... m.m.

Distance from top of cylinder block to highest point of transfer port..... m.m.

Drawing of cylinder ports.

**Supercharger, if fitted**

Make..... Model or Type No.....

Type of drive..... Ratio of drive.....

**Fuel injection, if fitted**

Make of pump..... Model or Type No.....

Make of injectors..... Model or Type No.....

Location of injectors.....

Optional equipment affecting preceding information:—

13" wire wheels.

500 x 13" Tyres.

WEBER 38, 40, 45 DCOE