HOMOLOGATION FORM

PENDEFORD AIRPORT
WOLVERHAMPTON
ENGLAND

TELEPHONE
FORDHOUSES
3223

TURNER SPORTS CARS (Wolverhampton) LTD.

SPORTS CAR MANUFACTURERS

Your Ref. ..... Our Ref. .....

Name of Manufacturer TURNER SPORTS CARS (WTON) LTD

Name of Model CHIMAK 1100

Manufacturer's Reference No. of Application 1100

We certify that in excess of 100 cars identical with the basic specification stated in this application were completed in a twelve month period.

Chassis Nos. 60/——— 61/———

Engine nos. FWA 400 ———

Signature J. H. Turner

Official designation Managing Director,
Chairman.
Works Foreman.

Manufacturers Reference No. for Application 1100

F.I.A. Recognition No. 120

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 (WOTON) LTD.

Model CLIMAX. 1100. Year of Manufacture 1960 - 1961.

Serial No. of Chassis 601

Engine FWA 400

Type of Coachwork 2 seater with or without Hard Top.

Recognition is valid from 9/5/63 In category GT. or Prod. Sports

Photograph to be affixed here ¾ view of car from front right.

Stamp of F.I.A./R.A.C. to be affixed here.

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Form: R.F.I.A.

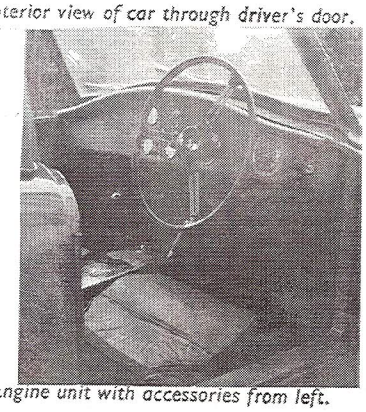
General description of car: *Specify here material/s of chassis/body construction*

Chassis. 3" Tubular Steel.
Body. Steel Inner Frame
Fibreglass. Shell.

Photographs to be affixed below.

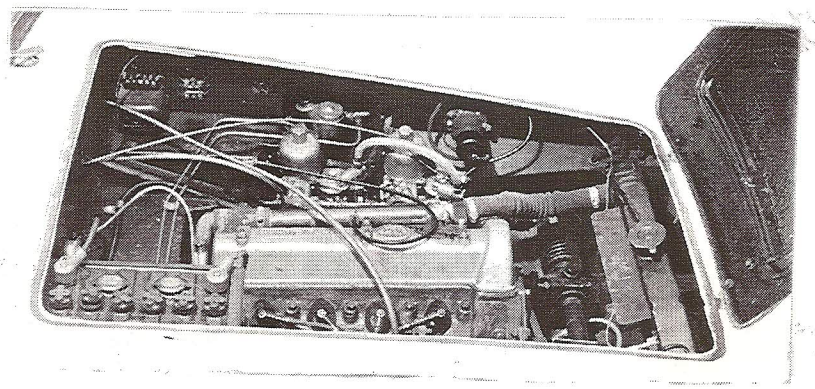
¾ view of car from rear left.

Interior view of car through driver's door.

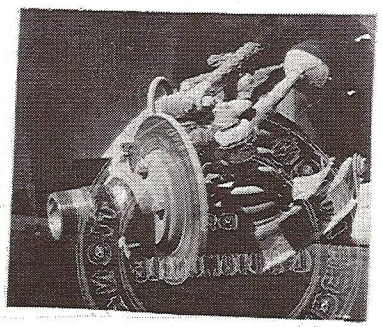


Engine unit with accessories from right.

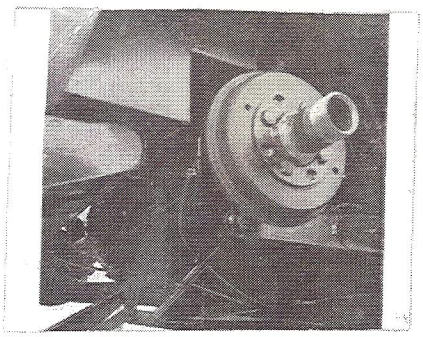
Engine unit with accessories from left.



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 1 3 4 2.

Capacity 1098 c.c. — Bore 2.85" m.m. — Stroke 2.625" 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. / Scraper.

Distance from gudgeon pin centre line to highest point of piston crown — m.m.

Bearings — Crankshaft main bearings: Type SHELL — Dia. 53.975 m.m.

Bearings — Connecting rod big end: Type SHELL — Dia. 47.62 m.m.

Weights — Flywheel 8.618. kg.

Weights — Crankshaft 11.567. kg.

Weights — Connecting rod .461. kg.

Weights — Piston with rings .320. kg.

Weights — 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°	Exhaust	60°
Valves close:	Inlet	60°	Exhaust	30°
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 (up or down draft, horizontal) — No. fitted 2.

Make SU. — Model H4

Flange hole diameter 1 1/2" m.m. — Choke diameter — m.m.

Main jet identification No. —

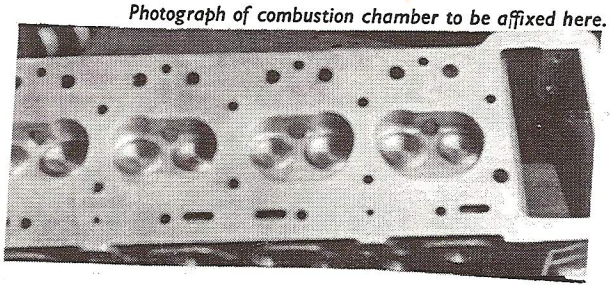
Air filter: Type ——— No. fitted ———

Inlet manifold:

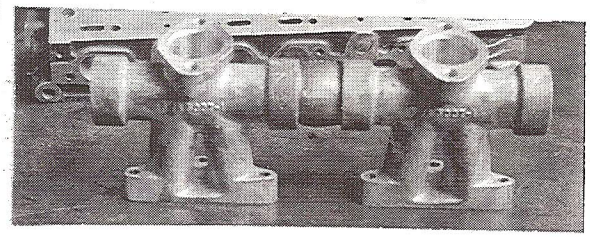
Diameter of flange hole at carburettor 38.1 m.m.

Diameter of flange hole at port 27.94 m.m.

Photograph of combustion chamber to be affixed here.



Photograph of inlet manifold to be affixed here.



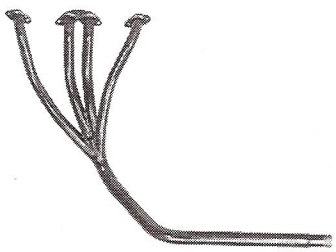
Exhaust manifold:

Diameter of flange hole at port 30. m.m.

Diameter of flange hole at connection to silencer inlet pipe 1 1/2" m.m.

Photograph of piston showing crown to be affixed here.

Photograph of exhaust manifold to be affixed here.



ENGINE ACCESSORIES

Make of fuel pump SU. No. fitted 1

Method of operation ELECTRIC.

Type of ignition system BATTERY + COIL. coil or magneto

Make of ignition LUCAS. Model D3. AH. 4A.

Method of advance and retard AUTO.

Make of ignition coil LUCAS. Model LA12.

No. of ignition coils 1 Voltage 12.

Make of dynamo LUCAS. Model C39. PVR/12.

Voltage of dynamo 12. Maximum output 25 amps.

Make of starter motor LUCAS. Model M35-G.

Battery: No. fitted 1 Voltage 12. Capacity 34 amp. hour

Oil Cooler (if fitted) type ARROW Capacity 1 pints

Make TURNER CLIMAX Model 1100 F.I.A. Recognition No.

Manufacturers Reference No. of Application

TRANSMISSION

Make of clutch BORG & BECK. Type DRY SINGLE PLATE

Diameter of clutch plate 7 1/4 No. of plates 1

Method of operating clutch HYDRAULIC.

Make of gearbox BMC. Type A Type C/R.

No. of gearbox ratios 4 + Rev.

Method of operating gearshift Remote Control

Location of gearshift Central.

Is overdrive fitted? —

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.	2.25-1							
2.	1.67-1							
3.	1.23-1							
4.	1-1							
5.								

Type of final drive HYPOID.

Type of differential ZF.

Final drive ratio 4.55-1 Alternatives 4.2-1 4.875-1 5.125-1

No. of teeth 9-41 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 5.20 x 15" Rear 5.20 x 15"

BRAKES

Method of operation HYDRAULIC.

Is servo assistance fitted? —

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 3/4" m.m.
	m.m.	m.m.
Width	1 1/2" m.m.	1 1/8 m.m.
Total area per brake	3 Sq. Ins. m.m.²	11.625 Sq. Ins. m.m.²

SUSPENSION

	Front	Rear
Type	INDEPENDENT.	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 32ft. m., approx.

No. of turns of steering wheel from lock to lock 2 1/4

CAPACITIES AND DIMENSIONS

Fuel tank 10 gal. litres Sump 1 gal. litres

Radiator 1 1/2 gal. 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 1/2" cm.

No. of seats 2

Track: Front 3'-9 1/2" cm. Rear 3'-8 3/4" 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 10cwt 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.²

Size of exhaust port:

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

Height.....m.m. Area.....m.m.²

Size of transfer port:

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

Height.....m.m. Area.....m.m.²

Size of piston port:

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

Height.....m.m. Area.....m.m.²

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 preceeding information:—

13" Wire Wheels + Knock on Hubs.

560 x 13" Tyres.

WEBER. [redacted] - 40 - [redacted] DCOE Cars.

/DHD/JMH/7714

13th May, 1963.

J. H. Turner Esq.,
Turner Sports Cars Ltd.,
Pendeford Airport,
WOLVERHAMPTON

Dear Mr. Turner,

At the meeting of the C.S.I. Homologation Committee on the 9th May your cars were accepted with the following reservations:-

Turner 950 — O.K. but the Alexander Head deleted from the options. If homologation of this is to be continued a separate application must be made with a complete set of forms.

Turner Climax 1100: — O.K. but only Weber 40 carburettor accepted as alternative and 38 and 45 deleted from optional equipment.

Turner 1600: — O.K. but alternative 1498 engine deleted from optional equipment. Again a separate homologation is required for this engine.

The next date for a meeting of the C.S.I. homologation committee is early September and the deadline for acceptance of applications by this Department is the 1st September.

A master form bearing the F.I.A. stamp will be sent to you as soon as they are received from Paris.

Yours sincerely,

D. H. DELAMONT
Manager, Competitions Department