HOMOLOGATION FORM

WOLVERHAMPTON
ENGLAND

TELEPHONE
FORDHOUSES
3223

TURNER SPORTS CARS (Wolverhampton) LTD.

SPORTS CAR MANUFACTURERS

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

Name of Manufacturer Turner Sports Cars (Luton) Ltd

Name of Model 1600

Manufacturer's Reference No. of Application 1600

We certify that in excess of 100 cars identical with the basic specification stated in this application were completed on APRIL 19.. (date) 1963 Production commenced on OCT. 1 (date) 1962 Cars conforming to this specification may be identified by

Chassis Nos. 62/— 63/—

Engine Nos. S—

Signature J H Turner

Official Designation. Managing Director

Tudor.
Works Foreman

Sent 25.4.63

Manufacturers Reference No. for Application 1600

F.I.A. Recognition No. 102

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 FORD 1600 Year of Manufacture 1962 - 1963.

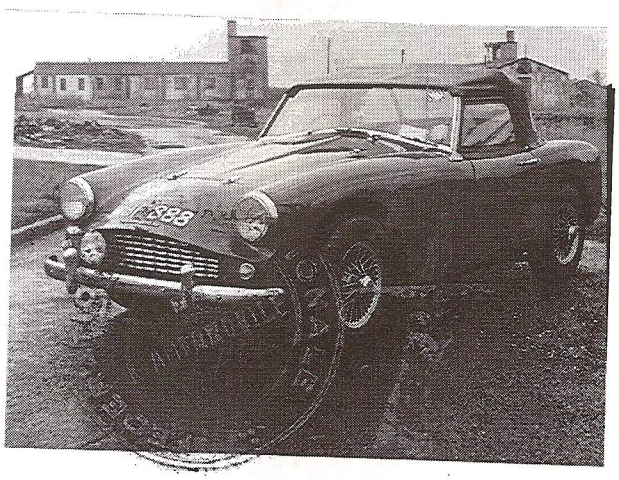
Serial No. of Chassis 62/— 63/—

Engine 5 ——— 6 numbers.

Type of Coachwork 2 seater with or without Hard Top

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

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



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

Form: R.F.I.A.

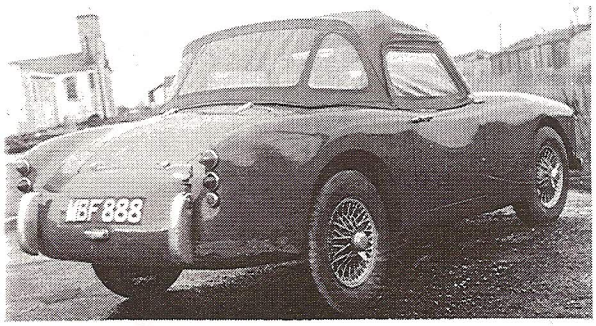
General description of car:

Specify here material/s of chassis/body construction

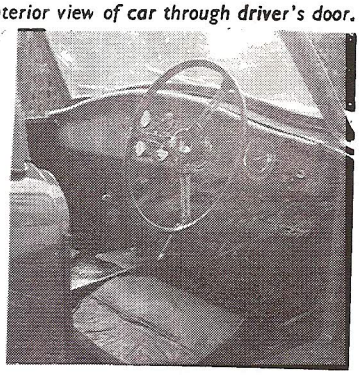
CHASSIS. 3" Tubular STEEL.
BODY STEEL INNER FRAME
Fibreglass SHELL.

Photographs to be affixed below.

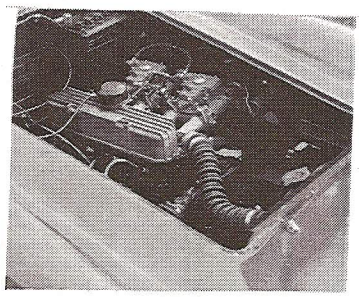
¾ view of car from rear left.



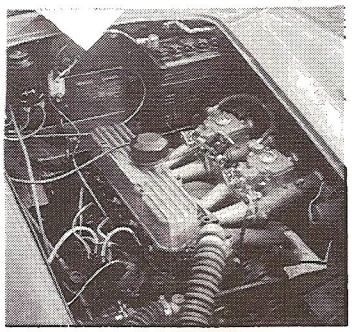
Interior view of car through driver's door.



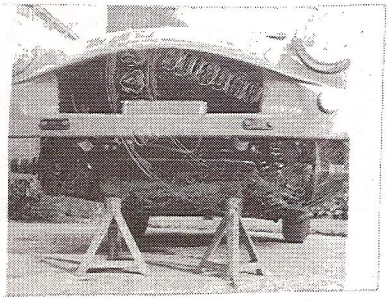
Engine unit with accessories from right.



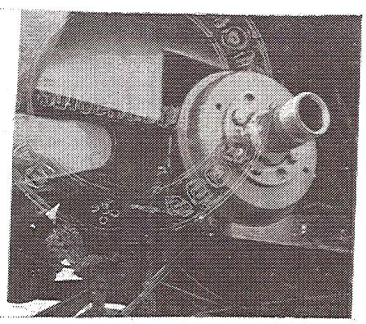
Engine unit with accessories from left.



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 2 4 3.

Capacity 1650 c.c. — Bore 85 m.m. — Stroke 72.75 m.m.

Maximum rebore — — Resultant capacity — c.c.

Material of cylinder block CAST IRON. — Material of sleeves, if fitted —

Distance from crankshaft centre line to top face of block at centre line of cylinders 4.812" m.m.

Material of cylinder head CAST IRON · Volume of one combustion chamber 35 c.c.

Compression ratio 11-1

Material of piston ALUM. — No. of piston rings 2 comp. 1 scraper.

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

Bearings
- Crankshaft main bearings: Type SHELL. — Dia. 2.125" m.m.
- Connecting rod big end: Type SHELL. — Dia. 1.937" m.m.

Weights
- Flywheel 8.20 kg.
- Crankshaft — kg.
- Connecting rod .554 kg.
- Piston with rings .360 kg.
- Gudgeon pin .106 kg.

No. of valves per cylinder 2. — Method of valve operation POSH ROD.

No. of camshafts 1 — Location of camshafts IN BLOCK.

Type of camshaft drive CHAIN.

		Inlet	Exhaust
Diameter of valves:		1.75 m.m.	1.562" m.m.
Diameter of port at valve seat:		1.625" m.m.	1.515" m.m.
Tappet clearance for checking timing:		.023" m.m.	.623" m.m.
Valves open:		50°	8.5°
Valves close:		86°	53°
Maximum valve lift:		.39" m.m.	.39" m.m.
Degrees of crankshaft rotation from zero to—			
Maximum lift:		130°	130°
¾ Maximum lift:		70°	70°

Valve springs:

	Inlet	Exhaust
Type	COIL	COIL.
No. per valve	2	2

Carburettor: Type HORIZONTAL (up or down draft, horizontal) — No. fitted 2 40 & 45 DCOE.

Make WEBER — Model —

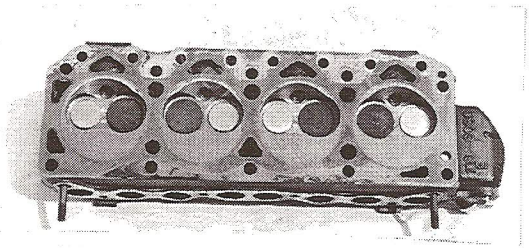
Flange hole diameter — m.m. — Choke diameter — m.m.

Main jet identification No. 40 & 45 mm

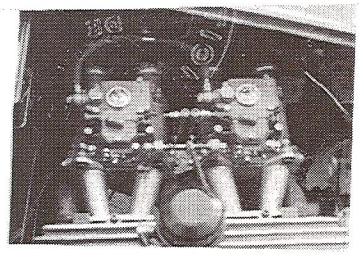
Air filter: Type — No. fitted —

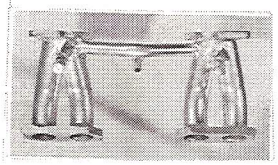
Inlet manifold:
Diameter of flange hole at carburettor 1 1/2" m.m.
Diameter of flange hole at port 1.28" m.m.

Photograph of combustion chamber to be affixed here.



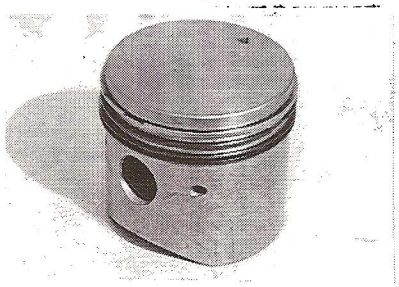
Photograph of inlet manifold to be affixed here.



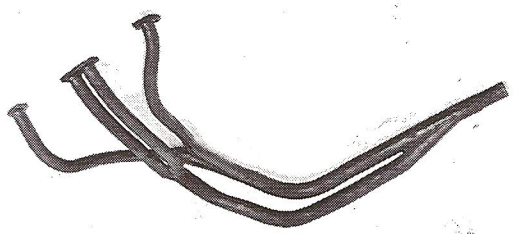


Exhaust manifold:
Diameter of flange hole at port 1 1/4" m.m.
Diameter of flange hole at connection to silencer inlet pipe 2" m.m.

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 —
Method of advance and retard AUTO.
Make of ignition coil LUCAS. Model LA 12.
No. of ignition coils 1 Voltage 12
Make of dynamo LUCAS. Model C.39. PVR/2
Voltage of dynamo 12. Maximum output 25 amps.
Make of starter motor LUCAS. Model M 35 G.
Battery: No. fitted 1 Voltage 12. Capacity 34 amp. hour
Oil Cooler (if fitted) type ALLOY Capacity 1 pints

Make TURNER 1600 Model ..... F.I.A. Recognition No. .....

Manufacturers Reference No. of Application 1600

TRANSMISSION

Make of clutch ..... Type DIAPHRAM.

Diameter of clutch plate 7¼" No. of plates 1

Method of operating clutch HYDRAULIC.

Make of gearbox FORD Type 1500 All Synchro.

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.	2.917-1		2.51-1					
2.	1.697-1		1.697-1					
3.	1.28-1		1.28-1					
4.	1-1.		1-1					
5.								

Type of final drive HYPOID.

Type of differential ZF.

Final drive ratio ~~3.78~~ Alternatives 4.2-1. 4.55-1. 4.875-1

No. of teeth 11-41. 5.125-1.

Overdrive ratio, if fitted —

WHEELS

Type WIRE. Weight ..... kg.

Method of attachment KNOCK ON HUB CAPS.

Rim diameter 13" m.m. Rim width 4 m.m.

Tyre size: Front 560 x 13" Rear 560 x 13"

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 1/2" 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	2" m.m.	1 1/2" m.m.
Total area per brake	Sq. ins. m.m.²	11.625 Sq. ins. m.m.²

SUSPENSION

	Front	Rear
Type	DOUBLE WISHBONE	TRAILING ARM.
Type of spring	COIL	TORSION BAR.
Is stabiliser fitted?	YES	NO.
Type of shock absorber	TELESCOPIC	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 1/4

CAPACITIES AND DIMENSIONS

Fuel tank 10 gal. litres Sump 9 gal. litres

Radiator 11 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 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.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:—

MAG. ALLOY WHEELS.

15" Tyres.

SU. H4 CARBS.

~~WEBER 40 45 DCOE CARBS.~~

~~3.187" DIA Pistons. [illegible]. [illegible].~~

/JMT/9048 30th July, 1963.

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

Dear Mr. Turner,

Turner Ford 1600 - No. 102
Turner Climax 1100 - No. 120

Further to my letter dated the 22nd May we have met with considerable trouble in trying to obtain an original stamped copy of the form of recognition from the C.S.I. and it now appears that these must have been lost in the recent postal strike in France.

The position is, therefore, that we have one original copy on our files from which we can take copies for competitors and have no alternative but to enclose herewith a photostat copy signed by Monsieur Schroeder for the C.S.I. which should be kept on your records.

Yours sincerely,

no actual Stamp.

Secretary to Mr. D. H. Delamont
Manager, Competitions Department