

Manufacturers Reference No. for Application

5B/64



F.I.A. Recognition No.

160

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 Grantura Engineering Ltd.

Model TVR Mark 111. 1800

Year of Manufacture 1963

Chassis 9/601

Serial No. of

Engine 18G - U - H

Type of Coachwork 2 Seater Sports

Recognition is valid from 11 April 1964 In category G.T.

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



Hubert Chondy



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*

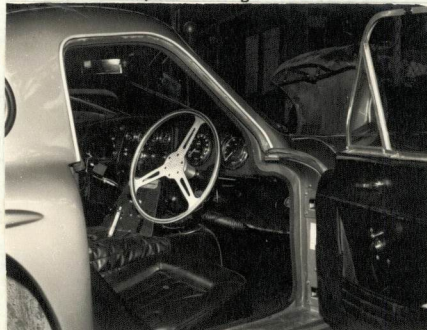
Fibreglass 2 seater body with multi-tubular
steel chassis powered by 4 cylinder OHV engine
in unit with 4 speed gearbox driving rear
wheels through chassis mounted differential unit.
Independent suspension all round by coil and
wishbones.

Photographs to be affixed below.

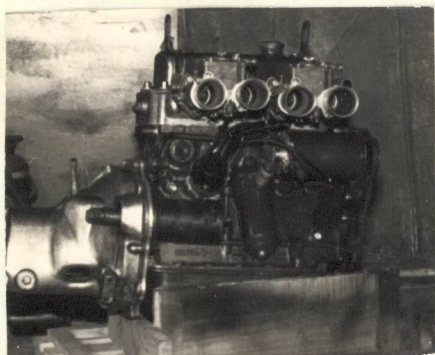
$\frac{3}{4}$ view of car from rear left.



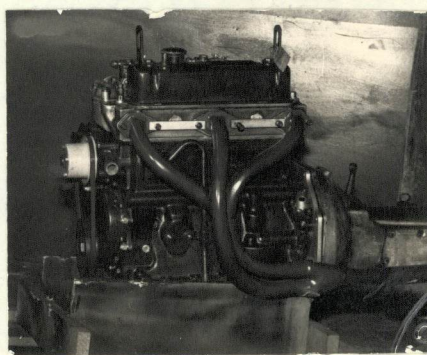
Interior view of car through driver's door.



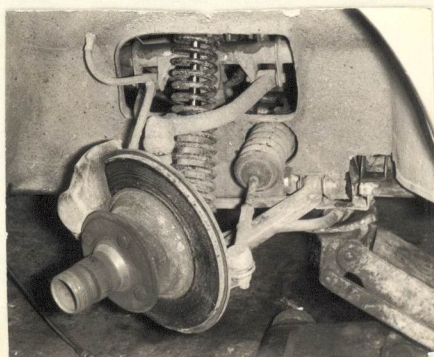
Engine unit with accessories from right.



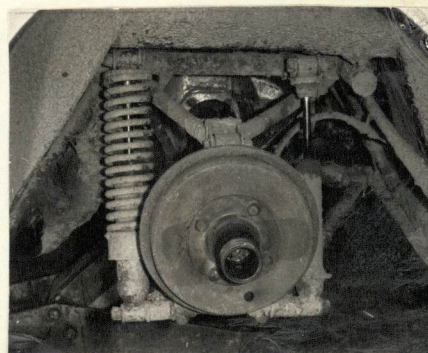
Engine unit with accessories from left.



Front axle complete (without wheels).



Rear axle complete (without wheels).



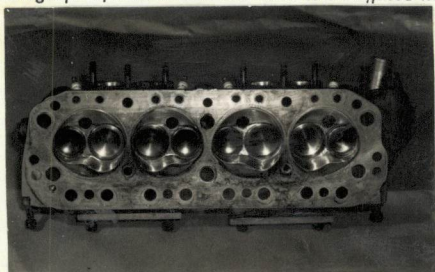
ENGINE

in line Yes
 No. of cylinders 4 in V
 opposed
 Cycle 4 Stroke Firing order 1.3.4.2.
 Capacity 1798 c.c. Bore 80.26 m.m. Stroke 89 m.m.
 Maximum rebore 1.2. MM. Resultant capacity 1840 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 252.4 m.m.
 Material of cylinder head Aluminium Volume of one combustion chamber 42.5/43.5 c.c.
 Compression ratio 11.9:1
 Material of piston Aluminium No. of piston rings 4
 Distance from gudgeon pin centre line to highest point of piston crown 42 m.m.
 Bearings { Crankshaft main bearings: Type Copper lead Dia. 53.97 m.m.
 Connecting rod big end: Type Copper lead Dia. 47.66 m.m.
 Weights { Flywheel 9.75 kg.
 Crankshaft 17.3 kg.
 Connecting rod 1.02 kg.
 Piston with rings 0.558 kg.
 Gudgeon pin 0.121 kg.
 No. of valves per cylinder 2 Method of valve operation Pushrod
 No. of camshafts 1 Location of camshafts Cylinder block
 Type of camshaft drive Roller chain
 Diameter of valves: Inlet 39.8 m.m. Exhaust 34.23 m.m.
 Diameter of port at valve seat: Inlet 33.33 m.m. Exhaust 29.37 m.m.
 Tappet clearance for checking timing: Inlet 0.46 m.m. Exhaust 0.46 m.m.
 Valves open: Inlet 50° BTDC Exhaust 75° BBDC
 Valves close: Inlet 70° ABDC Exhaust 45° ATDC
 Maximum valve lift: Inlet 11.12 m.m. Exhaust 11.12 m.m.
 Degrees of crankshaft rotation from zero to—
 Maximum lift: Inlet 157° Exhaust 157°
 ¾ Maximum lift: Inlet 98° Exhaust 98°
 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 Model 45 DCOE
 Flange hole diameter 45 m.m. Choke diameter 38 interchangeable m.m.
 Main jet identification No. 170 interchangeable

Air filter: Type _____ No. fitted _____

Inlet manifold:
Diameter of flange hole at carburettor 45 m.m.
Diameter of flange hole at port 37.92 m.m.

Photograph of combustion chamber to be affixed here.



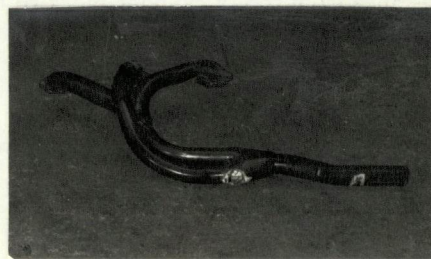
Exhaust manifold:

Diameter of flange hole at port 30.16 x 36.513 m.m.
Diameter of flange hole at connection to silencer inlet pipe 39 approx m.m.



here.

Photograph of exhaust manifold to be affixed here.



ENGINE ACCESSORIES

Make of fuel pump Bendix No. fitted One
Method of operation Electrical
Type of ignition system Coil coil or magneto
Make of ignition Lucas Model P4
Method of advance and retard Centrifugal and Vacuum
Make of ignition coil Lucas Model HA 12
No. of ignition coils 1 Voltage 12
Make of dynamo Lucas Model C40A
Voltage of dynamo 12 Maximum output 22 amps.
Make of starter motor Lucas Model M4.15G
Battery: No. fitted 1 or 2 Voltage 12 Capacity 38 amp. hour
Oil Cooler (if fitted) type BMC AEH 113 Capacity 1 pints

Make TVR Model Mark 111 1800 F.I.A. Recognition No. 160
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TRANSMISSION

Make of clutch Borg & Beck Type DSG
 Diameter of clutch plate 203.2 mm No. of plates 1
 Method of operating clutch Hydraulic
 Make of gearbox BMC Type Synchromesh. 2nd. 3rd. Top
 No. of gearbox ratios 4 Forward, 1 Reverse
 Method of operating gearshift Manual
 Location of gearshift Gearbox Tunnel
 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.	3:637	$\frac{21}{32} \times \frac{11}{28}$	2.44	$\frac{25}{26} \times \frac{11}{28}$				
2.	2:215	$\frac{21}{32} \times \frac{20}{31}$	1.618	$\frac{25}{26} \times \frac{19}{32}$				
3.	1:373	$\frac{21}{32} \times \frac{26}{25}$	1.266	$\frac{25}{26} \times \frac{29}{22}$				
4.	1:1	Direct	1:1	Direct				
5.								

Type of final drive Hypoid or Limited Slip
 Type of differential Bevel
 Final drive ratio 4.3:1 Alternatives 3.9. 4.1. 4.55. 4.875
 No. of teeth 10/43 11/43. 10/41. 9/41. 8/39.
 Overdrive ratio, if fitted ---

WHEELS

Type Wire or Disc Weight --- kg.
 Method of attachment 4 Stud or Centre Hub Lock Cap.
 Rim diameter 381 m.m. Rim width 127 m.m.
 Tyre size: Front 590 x 15 Rear 590 x 15

BRAKES

Method of operation Hydraulic
 Is servo assistance fitted? No
 Type of servo, if fitted ---
 No. of hydraulic master cylinders 2 Bore 17.8 m.m.

	Front		Rear
No. of wheel cylinders	<u>4</u>		<u>2</u>
Bore of wheel cylinders	<u>48</u> m.m.		<u>17.8</u> m.m.
Inside diameter of brake drums	<u>-----</u> m.m.		<u>228</u> m.m.
No. of shoes per brake	<u>-----</u>		<u>2</u>
Outside diameter of brake discs	<u>273</u> m.m.		<u>-----</u> m.m.
No. of pads per brake	<u>2</u>		<u>-----</u>
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	<u>60</u> m.m.		<u>222</u> m.m.
	<u>-----</u> m.m.		<u>-----</u> m.m.
Width	<u>48</u> m.m.		<u>44</u> m.m.
Total area per brake	<u>5760</u> m.m. ²		<u>19,500</u> m.m. ²

SUSPENSION

	Front		Rear
Type	<u>Wishbone</u>		<u>Wishbone</u>
Type of spring	<u>Coil</u>		<u>Coil</u>
Is stabiliser fitted?	<u>Yes</u>		<u>No</u>
Type of shock absorber	<u>Telescopic</u>		<u>Telescopic</u>
No. of shock absorbers	<u>Two</u>		<u>Four</u>

STEERING

Type of steering gear..... Rack and Pinion

Turning circle of car..... 10 m., approx.

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

CAPACITIES AND DIMENSIONS

Fuel tank..... 47 litres Sump..... 5.5 litres

Radiator..... 8 litres

Overall length of car..... 356 cm. Overall width of car..... 162.5 cm.

Overall height of car, unladen (with hood up, if appropriate)..... 122 cm.

Distance from floor to top of windscreen:

 Highest point..... 96 cm. Lowest point..... 63 cm.

Width of windscreen:

 Maximum width..... 134 cm. Minimum width..... 122 cm.

*Interior width of car..... 122 cm.

No. of seats..... 2

Track: Front..... 134 cm. Rear..... 137 cm.

Wheelbase..... 217.17 cm. Ground clearance..... 152 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..... 600 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.....

TOURING EQUIPMENT.

Cast iron cylinder head

Volume of one combustion chamber 42.5/43.5 cc

Low compression pistons 12H755

Camshaft 1H729

1.O. 16° BTDC

S.O. 51° BBDC

1.C. 56° ABDC

E.C. 21° ATDC

Max Valve lift 9.5 mm.

Inlet Manifold Part No. 713/37

Single Weber type 45 DCOE flange hole Dia. 45 mm.

Choke dia. 38 mm. Main jet 170 interchangeable.

OTHER EQUIPMENT.

As per MGB. tuning manuel.

Light alloy engine plates

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F.I.A. Recognition No.

160/1/ET

ROYAL AUTOMOBILE CLUB

PALL MALL, LONDON, S.W.1.

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Amendment to Form of Recognition

Manufacturer.....GRANTURA ENGINEERING LTD.

Model.....TVR MARK 111 1800.

1. Due to modifications made by the engine manufacturer, namely, The British Motor Corporation, all MGB 1798 c.c. engines supplied to us for installation in the TVR Mark 111 1800, now incorporate a five bearing crankshaft.
Bearings, material: copper-lead , diameter: 54,02 mm
2. Optional equipment now includes a wheel rim width of 152.4 m.m.



Hubert Schandy

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

Date amendment is valid from 1st June 1965

Form: R.F.I.B.