

F.I.A. Recognition No. 553

Group 3



ROYAL AUTOMOBILE CLUB

31, Belgrave Square, London, S.W.1

Form of recognition in accordance with appendix J to the International Sporting Code of the
FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Cylinder-capacity 1998 cm.³ 122 in.³

Manufacturer Standard-Triumph Motor Co. Ltd. Model Spitfire G.T.6

Serial No. of chassis/body KC 1 onwards Manufacturer Standard-Triumph Motor Co. Ltd.

Serial No. of engine KC 1 E onwards Manufacturer Standard-Triumph Motor Co. Ltd.

Recognition is valid from 1st Jan 1967 List 15/2

The manufacturing of the model described in this recognition form started on 4th July 1966

and the minimum production of 500 identical cars, in accordance with the specifications of
this form was reached on 14th October 1966.

Photograph A, $\frac{3}{4}$ view of car from front



F.I.A. Stamp



R.A.C. Stamp

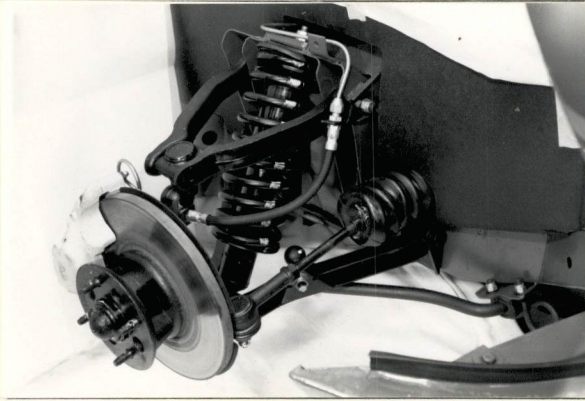
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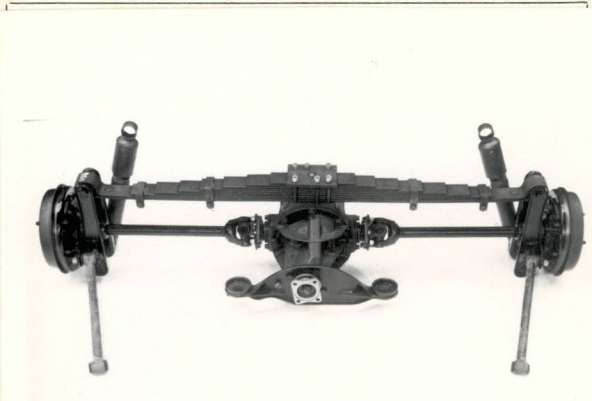
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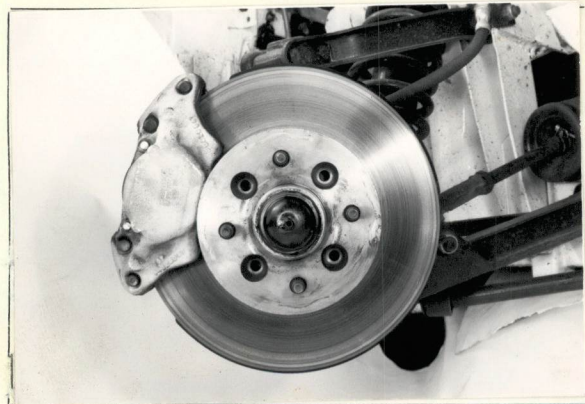
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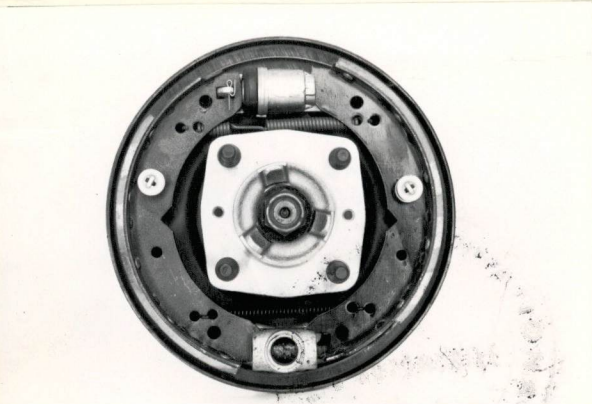
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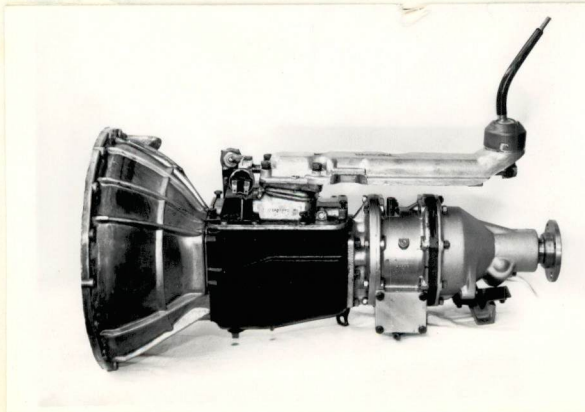
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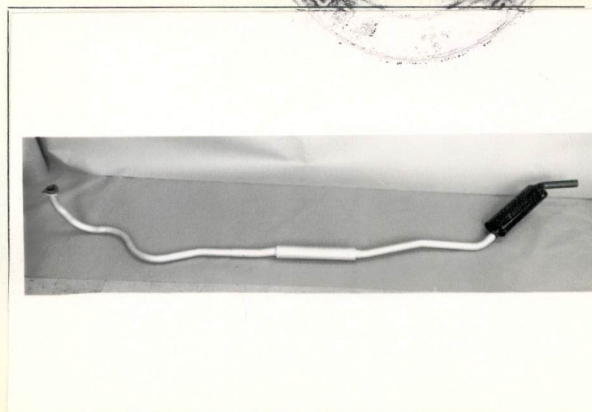
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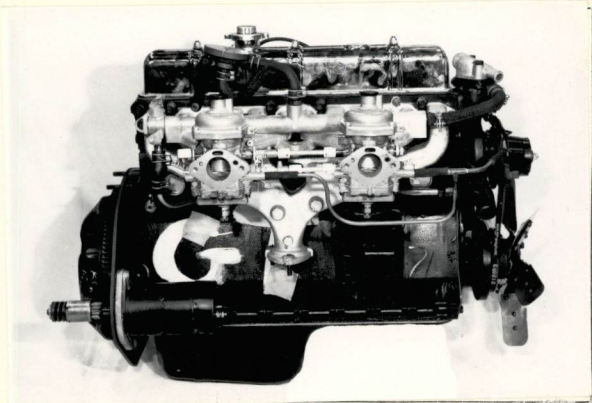
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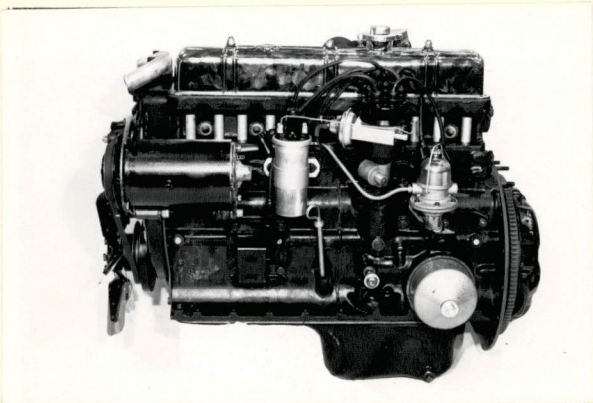
I



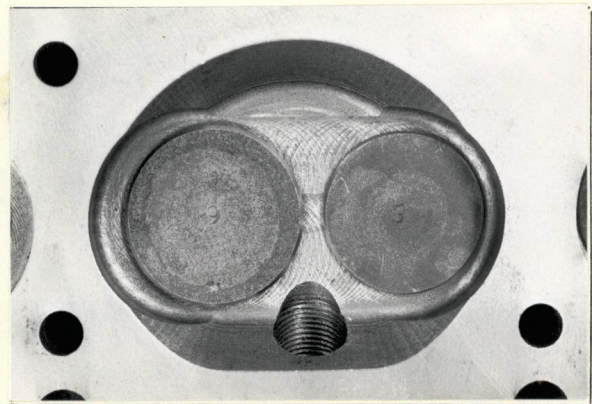
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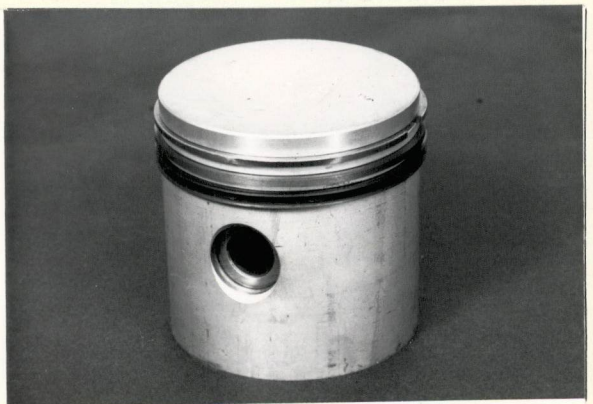
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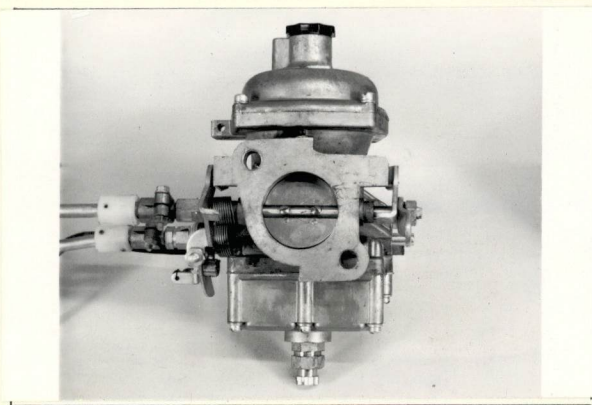
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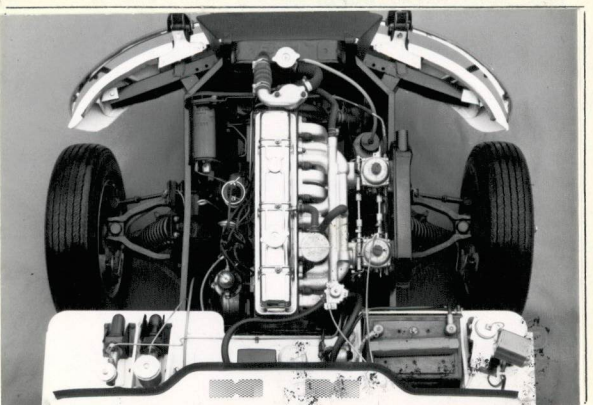
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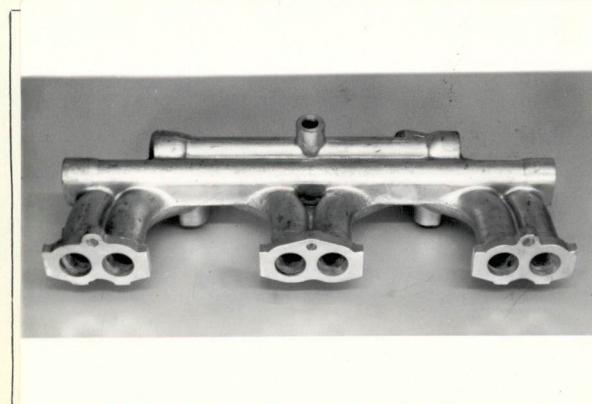
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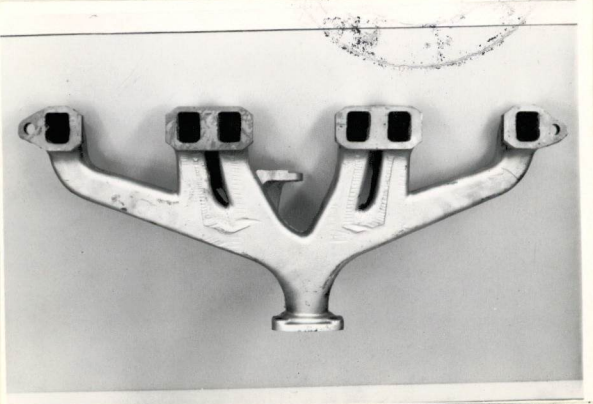
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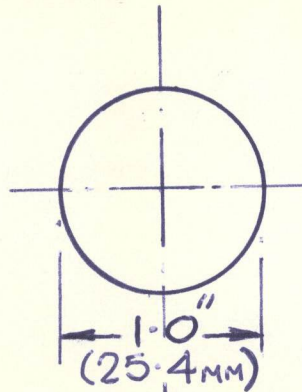
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Q

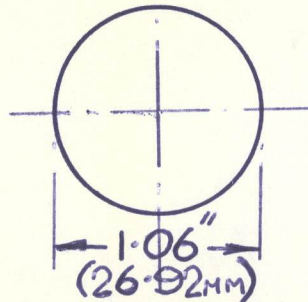


Drawing inlet manifold ports, side of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



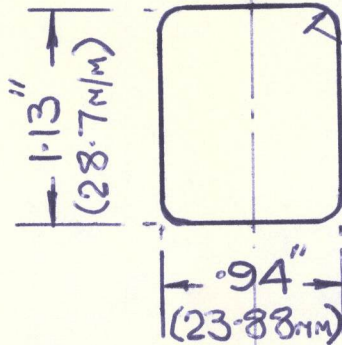
MACHINING TOLERANCE
 $\pm 0.010''$ (.254mm)

Drawing of entrance to inlet port of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



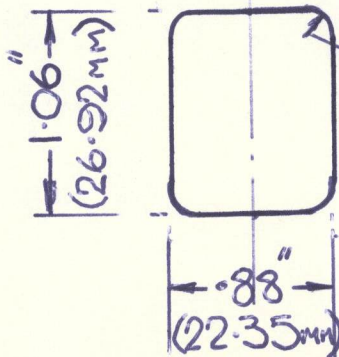
MACHINING TOLERANCE
 $\pm 0.010''$ (.254mm)

Drawing of exhaust manifold ports, side of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.

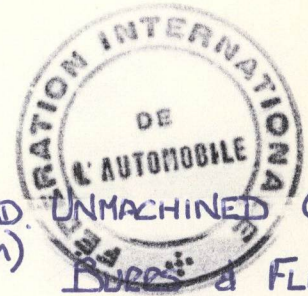


UNMACHINED CASTING
BURRS & FLASHES
FETTLED.
.13RAD.
(3.18mm)

Drawing of exit to exhaust port of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



UNMACHINED CASTING
BURRS & FLASHES
FETTLED.
.13RAD.
(3.18mm)

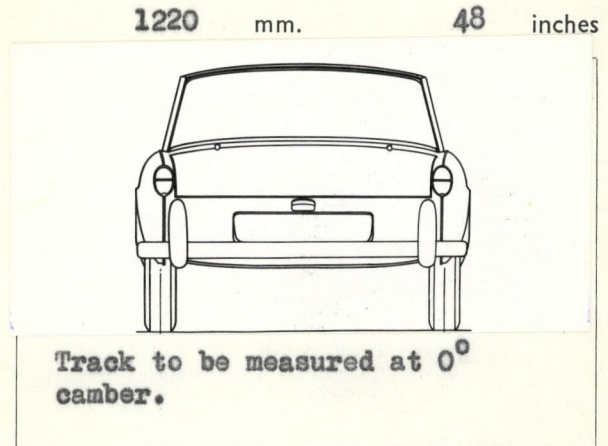
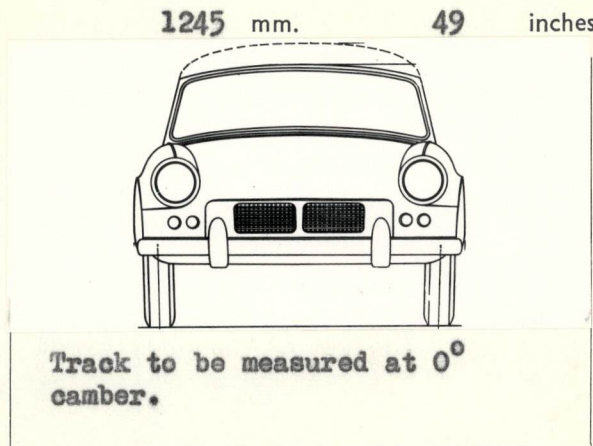


NOTE 1.

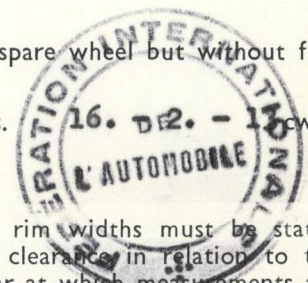
All dimensions must be given in two measuring systems, see Note 3.

CAPACITIES AND DIMENSIONS

- | | | |
|----------------|----------|-----------|
| 1. Wheelbase | 2110 mm. | 83 inches |
| 2. Front track | 1245 mm. | 49 inches |
| 3. Rear track | 1220 mm. | 48 inches |



- | | | | |
|--|------------|-----------------|-----------------|
| 4. Overall length of the car | 3685 cm. | 145 inches | |
| 5. Overall width of the car (over handles) | 144.8 cm. | 57 inches | |
| 6. Overall height of the car (unladen) | 119.5 cm. | 47 inches | |
| 7. Capacity of fuel tank (reserve included) | 44.3 ltrs. | 11.7 gall. U.S. | 9.75 gall. Imp. |
| 8. Seating Capacity. | 2 | | |
| 9. Weight. Total weight of the car with normal equipment, water, oil, and spare wheel but without fuel or repair tools : | 844.13 kg. | 1861 lbs. | 16.02 cwt. |



NOTE 2.

Differences in track caused by the use of other wheels with different rim widths must be stated when recognition is requested for the wheels concerned. Specify ground clearance in relation to the track and give drawing of two easily recognisable points at front and rear at which measurements are taken. These ground clearance dimensions are only for information when checking the track and can in no way affect the eligibility of the car.

NOTE 3.

CONVERSION TABLE

1 inch/pouce	— 2.54	cm.	1 quart US	— 0.9464	ltrs.
1 foot/pied	— 30.4794	cm.	1 pint (pt)	— 0.568	ltrs.
1 sq. inch/pouce carre	— 6.452	cm. ²	1 gallon Imp.	— 4.546	ltrs.
1 cubic inch/pouce cube	— 16.387	cm. ³	1 gallon US	— 3.785	ltrs.
1 pound/livre (lb)	— 453.593	gr.	1 hundred weight (cwt.)	— 50.802	kg.

CHASSIS AND COACHWORK (Photographs A, B and C)

- 20. Chassis/body construction: separate/~~unitary construction~~
- 21. Unitary construction, material(s)
- 22. Separate construction, Material(s) of chassis **Steel (pressed)**
- 23. Material(s) of coachwork **Steel**
- 24. Number of doors **2** Material(s) **Steel**
- 25. Material(s) of bonnet **Steel**
- 26. Material(s) of boot lid **Steel**
- 27. Material(s) of rear-window **Glass**
- 28. Material(s) of windscreen **Laminated glass or ZONE toughened**
- 29. Material(s) of front-door windows **Glass**
- 30. Material(s) of rear-door windows
- 31. Sliding system of door windows **Remote winder**
- 32. Material(s) of rear-quarter light **Glass**

ACCESSORIES AND UPHOLSTERY

- 38. Interior heating : **yes — no**
- 39. Air conditioning : **yes — no**
- 40. Ventilation : **yes — no**
- 41. Front seats, type of seat and upholstery **Exp. Bucket**
- 42. Weight of front seat(s), complete with supports and rails, out of the car : **Expanded P.V.C.**

10.8 kg.	26 lbs. each
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- 43. Rear seats, type of seat and upholstery
- 44. Front bumper, material(s) **Steel** Weight **3.7 kg.** **8 lbs.**
- 45. Rear bumper, material(s) **Steel** Weight **3.4 kg.** **8 lbs.**

WHEELS

- 50. Type **Steel disc or centre lock wire**
- 51. Weight (per wheel, without tyre) **5.5 (steel) 6.4 (wire)** kg. **12 (steel) 14 (wire)**
- 52. Method of attachment **Bolt on (disc) or centre nut (wire)**
- 53. Rim diameter **338.2 mm.** **13 ins.** 54. Rim width **114.3 mm.** **4½ ins.**



STEERING

- 60. Type **Rack and pinion**
- 61. Servo-assistance : **yes — no**
- 62. Number of turns of steering wheel from lock to lock **4¼**
- 63. In case of servo-assistance

SUSPENSION

- 70. Front suspension (photograph D), type Independent
- 71. Type of spring Coil
- 72. Stabiliser (if fitted) Anit-roll bar
- 73. Number of shock absorbers 1 per side 74. Type Telescopic
- 78. Rear suspension (photograph E), type Swing axle independent
- 79. Type of spring Transverse leaf
- 80. Stabiliser (if fitted) None
- 81. Number of shock absorbers 1 per side 82. Type Telescopic

BRAKES (photographs F and G)

- 90. Method of operation Pedal operated/hydraulic
- 91. Servo-assistance (if fitted), type
- 92. Number of hydraulic master cylinders One

93. Number of cylinders per wheel	2 FRONT	1 REAR
94. Bore of wheel cylinder(s)	53.975 mm. 2.125 inches	19.05 mm. .75 inches

Drum Brakes

95. Inside diameter	mm. inches	208 mm. 8.0 inches
96. Length of brake linings	mm. inches	194 mm. 7.65 inches
97. Width of brake linings	mm. inches	31.8 mm. 1.25 inches
98. Number of shoes per brake		2
99. Total area per brake	mm. ² sq. in.	12250 mm. ² 19 sq. in.

Disc Brakes

100. Outside diameter	246.38 mm. 9.7 inches
101. Thickness of disc	12.7 mm. .50 inches
102. Length of brake linings	67.818 mm. 2.67 inches
103. Width of brake linings	52.324 mm. 2.06 inches
104. Number of pads per brake	2
105. Total area per brake	7097 mm. ² 11 sq. in.



mm.² sq. in.

ENGINE (photographs J and K)

130. Cycle 4 stroke
131. Number of cylinders 6
132. Cylinder Arrangement In line
133. Bore 74.7 mm. 2.94 in. 134. Stroke 76 mm. 2.99 in.
135. Capacity per cylinder 333 cm.³ 20.33cu. in.
136. Total cylinder capacity 1998 cm.³ 122cu. in.
137. Material(s) of cylinder block Chrome cast iron 138. Material(s) of sleeves (if fitted)
139. Cylinder head, material(s) Chrome cast iron Number fitted 1
140. Number of inlet ports 6 141. Number of exhaust ports 6
142. Compression ratio 9.5 : 1
143. Volume of one combustion chamber ± 1 cc 31.6 cm.³ 1.928 cu. in.
144. Piston, material Aluminium alloy 145. Number of rings 3
146. Distance from gudgeon pin centre line to highest point of piston crown 38.1 mm. 1.5 in.
147. Crankshaft: ~~mounted~~/stamped 148. Type of crankshaft: integral/~~XXXXX~~
149. Number of crankshaft main bearings 4
150. Material of bearing cap Chrome cast iron
151. System of lubrication: ~~dry sump~~/oil in sump
152. Capacity, lubricant 4.5 ltrs. 8 pts. 4.81 quarts U.S.
153. Oil cooler: ~~yes~~/no 154. Method of engine cooling Water cooled
155. Capacity of cooling system 6.2 ltrs. 11 pts. 6.6 quarts U.S.
156. Cooling fan (if fitted) dia. 31.75 cm. 12.5 in.
157. Number of blades of cooling fan 6 (six)

Bearings

158. Crankshaft main, type Lead indium dia. 50.8 m.m. in.) } before re-grind
159. Connecting rod big end, type Lead indium dia. 47.55 m.m. 1.872 in.) }

Weights

160. Flywheel (clean) 7.94 kg. 17.5 lbs.
161. Flywheel with clutch (all turning parts) (bolts included) 13.95 kg. 30.75 lbs.
162. Crankshaft 20.669 kg. 45.5 lbs. 163. Connecting rod 0.68 kg. 1.5 lbs.
164. Piston with rings and pin .4575 kg. 1.0 lbs.



FOUR STROKE ENGINES

170. Number of camshafts one 171. Location Left side cylinder block (plan.)
 172. Type of camshaft drive chain
 173. Type of valve operation Push rod operated O.H.V. with rockers

INLET (see page 4)*

180. Material(s) of inlet manifold Aluminium alloy
 181. Diameter of valves 33.1 mm. 1.305 ins.
 182. Max. valve lift 7.9 mm. .312 in. 183. Number of valve springs 2
 184. Type of spring coil 185. Number of valves per cylinder 1
 186. Tappet clearance for checking timing (cold) 0.38 mm. .015 ins.
 187. Valves open at (with tolerance for tappet clearance indicated) 18° BTDC
 188. Valves close at (with tolerance for tappet clearance indicated) 58° ABDC
 189. Air filter, type Paper element

EXHAUST (see page 4)*

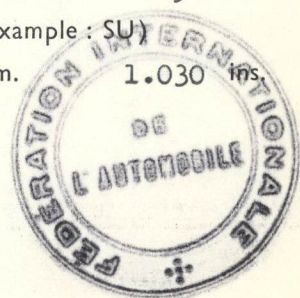
195. Material(s) of exhaust manifold Cast iron
 196. Diameter of valves 30 mm. 1.180" ins.
 197. Max. valve lift 7.9 mm. .312 in. 198. Number of valve springs 2
 199. Type of spring coil 200. Number of valves per cylinder 1
 201. Tappet clearance for checking timing (cold) 0.38 mm. .015 ins.
 202. Valves open at (with tolerance for tappet clearance indicated) 55° BBDC
 203. Valves close at (with tolerance for tappet clearance indicated) 18° ATDC

CARBURETION (photograph N)

210. Number of carburettors fitted 2 211. Type Side draught
 212. Make Stromberg 213. Model 150 CD
 214. Number of mixture passages per carburettor One
 215. Flange hole diameter of exit port(s) of carburettor 38.1 mm. 1.5 ins.
 216. ~~Minimum diameter of venturi~~ dimension minimum diam., with piston at maximum height (example: SU) 254.76 mm. 1.030 ins.

INJECTION (if fitted)

220. Make of pump 221. Number of plungers
 222. Model or type of pump 223. Total number of injectors
 224. Location of injectors
 225. Minimum diameter of inlet pipe mm. ins.



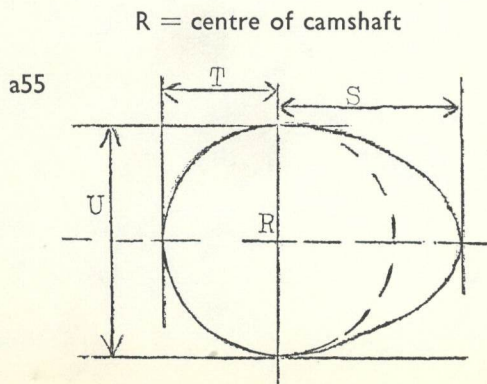
* For additional information concerning two-stroke engines and super-charged engines, see page 13.

ENGINE ACCESSORIES

230. Fuel pump : mechanical and/or ~~electrical~~
231. No. fitted One
232. Type of ignition system Coil 233. No. of distributors One
234. No. of ignition coils One 235. No. of spark plugs per cylinder One
236. Generator, type : dynamo/~~alternator~~—number fitted One
237. Method of drive Vee-belt
238. Voltage of generator 12 volts
239. Battery, number One
240. Location Under bonnet
241. Voltage of battery 12 volts 48 amp hr. at 10 amp rate

ENGINE AND CAR PERFORMANCES (as declared by manufacturer in catalogue)

250. Max. engine output 95 (type of horsepower: net) at 5000 r.p.m.
251. Max. r.p.m. 6500 output at that figure not quoted as not sustained
252. Max. torque 1408 lbs. in. at 3000 r.p.m.
253. Max. speed of the car 171 km./hour 107 miles/hour



Inlet cam

- S = 19.26 mm. 0.758 inches
- T = 13.74 mm. 0.541 inches
- U = 27.48 mm. 1.082 inches

Exhaust cam

- S = 19.26 mm. 0.758 inches
- T = 13.74 mm. 0.541 inches
- U = 27.48 mm. 1.082 inches



DRIVE TRAIN

CLUTCH

260. Type of clutch Spring diaphragm 261. No. of plates One
 262. Dia. of clutch plates 21.59 cm. 8.5 ins.
 263. Dia. of linings, inside 14.605 cm. 5.75 ins.
 outside 21.59 cm. 8.5 ins.
 264. Method of operating clutch Hydraulic

GEAR BOX (photograph H)

270. Manual type, make Standard-Triumph Method of operation Remote lever
 271. No. of gear-box ratios forward 4 272. Synchronized forward ratios 4
 273. Location of gear-shift Floor mounted (centre)
 274. Automatic, make type
 275. No. of forward ratios 276. Location of gear shift

277.	Manual		Automatic		Alternative manual/automatic			
	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth
1	2.65/1	29/15			2.93	30/14	No synchro	
2	1.78/1	26/20			1.78	26/20		
3	1.25/1	22/24			1.25	22/24		
4	Direct	19/26			1.0	19/26		
5								
6								
reverse	3.10	34/15			2.93	30/14		

278. Overdrive, type Laycock D. type (electrically operated)
 279. Forward gears on which overdrive can be selected 3rd and 4th
 280. Overdrive ratio .802 : 1

FINAL DRIVE

290. Type of final drive Hypoid 291. Type of differential Bevel gears
 292. Type of limited slip differential (if fitted)
 293. Final drive ratio 3.27 and 3.89 Number of teeth 11/36 and 9/35



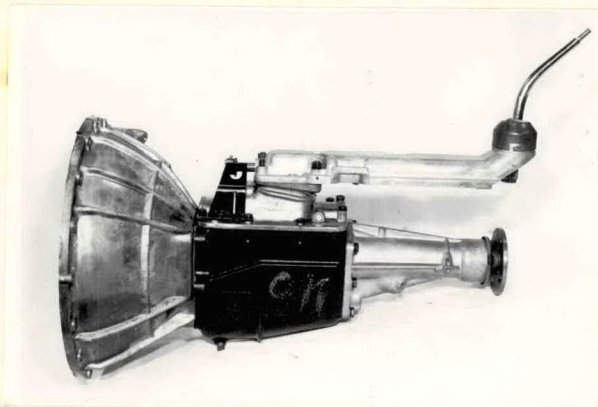
IMPORTANT—The conformity of the car with the following items of the present recognition form is to be disregarded during the scrutineering, when the vehicle has been entered in group 2 (Touring cars) or 3 (Grand Touring cars) : 41, 72, 80, 91, 142, 143, 144, 145, 146, 153, 156, 157, 160, 161, 162, 163, 164, 182, 186, 187, 188, 189, 201, 202, 203, 212, 213, 215, 216 222, 225, 230, 250, 251, 252, 253, 255 photographs I, M and N and page 4.

During the scrutineering of cars entered in group 4 (Sportscars) only the following items of the present recognition form are to be taken into consideration : 1, 2, 3, 9, 20, 21, 22, 23, 24, 25, 26, 70, 71, 78, 79, 90, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 147, 148, 149, 150, 158, 159, 170, 171, 172, 173, 185, 200, 270, 271, 274, 275, 290, 291, 292 and photographs A, B, D, E, F, G, H, J, K and O.

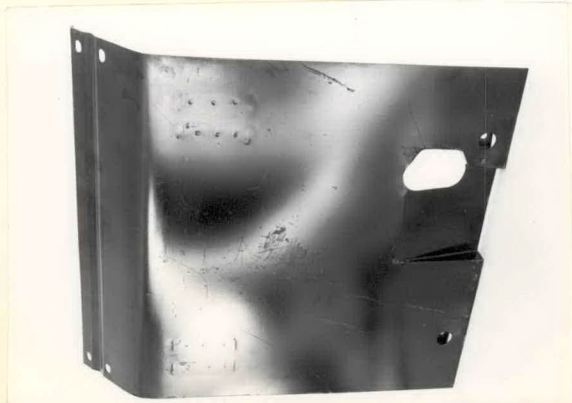
The vehicle described in this form has been subject to the following amendments :

on 1st APRIL 19 67 rec. no. 553 List 16/1 on 19 rec. no. List
 on JULY 19 67 rec. no. 553 List on 19 rec. no. List
 on 19 rec. no. List on 19 rec. no. List
 on 19 rec. no. List on 19 rec. no. List
 on 19 rec. no. List on 19 rec. no. List

Optional equipment affecting preceding information. This to be stated together with reference number.



NON OVERDRIVE GEARBOX DET. 515449



SKID SHIELD ASSEMBLY DET 306133





MOTOR SPORT DIVISION
The Royal Automobile Club,
31 Belgrave Square, London, S.W.1

Manufacturer: TRIUMPH
Model: G.T.6.
F.I.A. Recognition No. 553 *AN*
Amendment No. 1 (one)

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE
VARIANT

No.

Reference No.

ADDITIONAL AXLE RATIO,S (ARTICLE 257 PARA F)

4.11 : 1

No. OF TEETH 9/37.

CROWN WHEEL 208125

PINION 211763

} 516274
MATCHED SET

4.55 : 1

No. OF TEETH 9/41

CROWN WHEEL 208465

PINION 212618

} 516275
MATCHED SET.

ALTERNATOR DETAIL No. 211962 45 AMP. TO REPLACE DYNAMO.

Date amendment is valid from

1st April 1967
List 16/1





MOTOR SPORT DIVISION
The Royal Automobile Club,
31 Belgrave Square, London, S.W.1

Manufacturer Standard Triumph

Model G.T.6

F.I.A. Recognition No. 553 1/ET

Amendment No. 2

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No.

Reference No.

GROUP 3 - EVOLUTION

ENGINEERING CHANGE CRANKSHAFT AND CONNECTING RODS
MODIFIED AS DETAILS BELOW FROM ENGINE NO: KC5001E

- | | | |
|----|------|--|
| 1. | 158. | Crankshaft main diameter 58.712 mm/2.3115 inches top
58.699 mm/2.3110 inches bottom |
| 2. | 159. | Connecting rod big end diameter
47.638 mm/1.8755 inches top
47.625 mm/1.8759 inches bottom |
| 3. | 162. | Crankshaft 22.68 kgs. = 50 lbs. \pm 5% |
| 4. | 163. | Connecting rod $0\frac{1}{2}$ 659 kgs. = 1 lb. $7\frac{1}{4}$ ozs. \pm $2\frac{1}{2}$ % |

Date amendment is valid from

1st July 1967. list 16/4



Stamp of F.I.A./R.A.C.