

F.I.A. Recognition No... *509* .....  
Group *3. Grand Touring*

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

Rootes Group.	Cylinder-capacity... <i>4261</i> ...cm <sup>3</sup> ... <i>260</i> ...in <sup>3</sup>
Manufacturer... Sunbeam Talbot Ltd....	Model... Tiger .....
Serial No. of chassis <i>B.9470001</i> .....	Manufacturer... Sunbeam Talbot Ltd. ....
engine... <i>1000</i> .....	Manufacturer... Ford Motor Co. Ltd. U.S.A. ....
Recognition is valid from... <del>1965</del> <i>1st Jan 1966</i> .....	List... <i>14</i> .....

The manufacturing of the model described in this recognition form was started on  
. *1st July* ..... *1964* and the minimum production of... *500* ..... identical cars,  
in accordance with the specifications of this form was reached on. *31st Oct. 1964*

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



F.I.A. Stamp  
FEDERATION INTERNATIONALE DE L'AUTOMOBILE  
*[Signature]*

R.A.C. Stamp  
THE ROYAL AUTOMOBILE CLUB  
APPROVED  
GREAT BRITAIN

Make Sunbeam

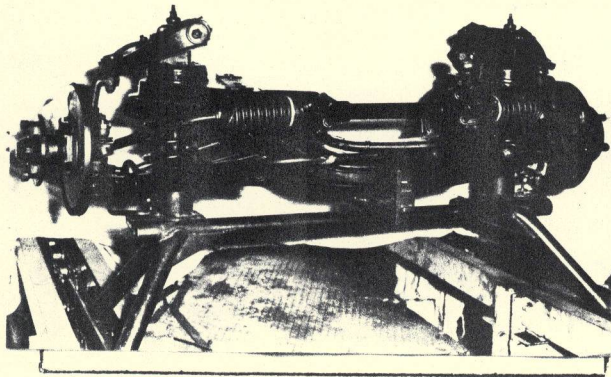
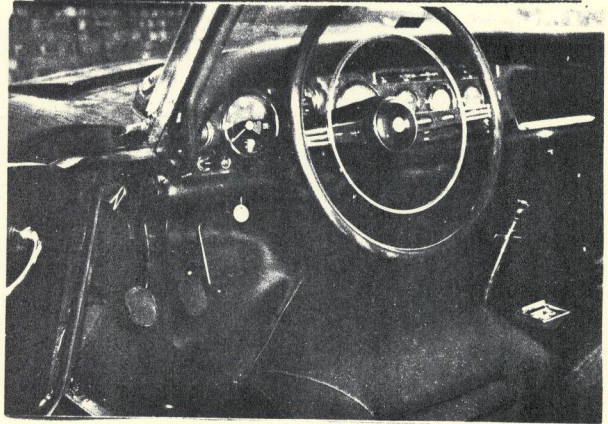
Model Tiger.

F.I.A. Rec.no. 509

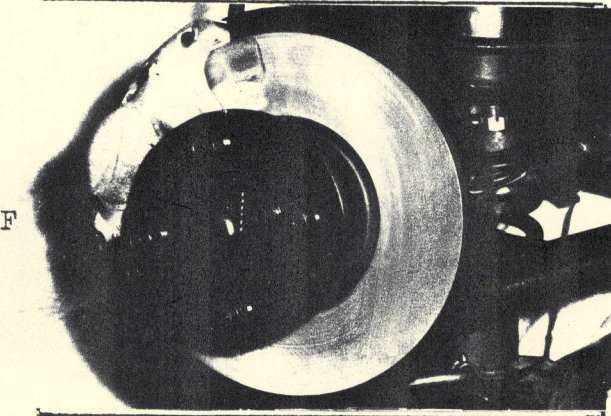
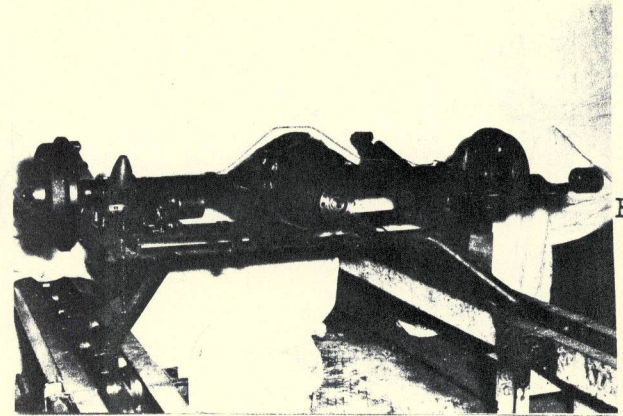
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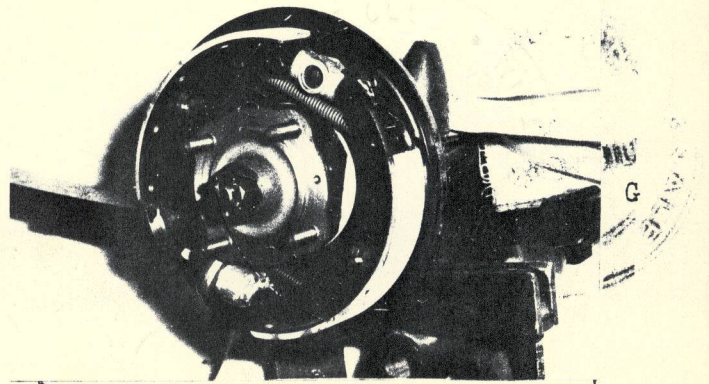
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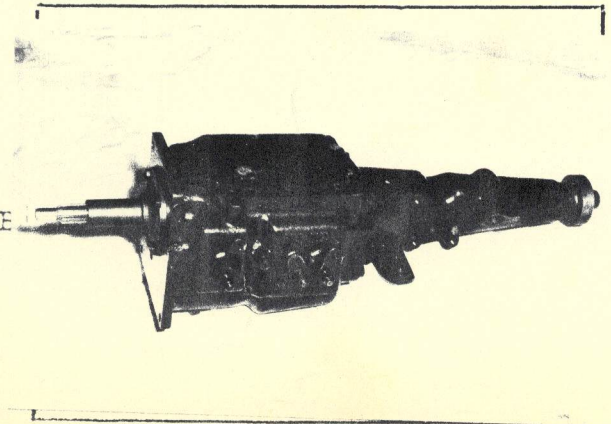
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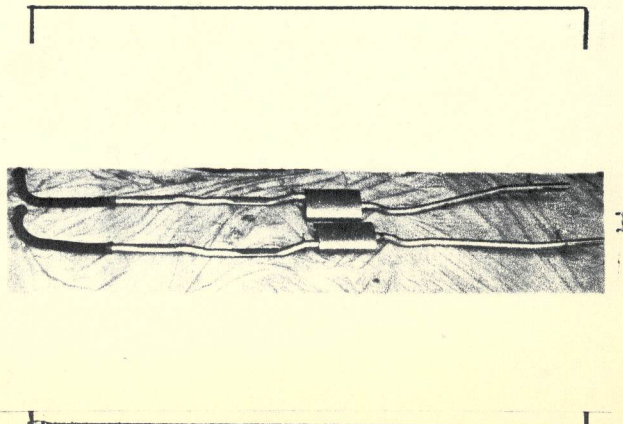
F



G



H



I

Make

Sunbeam

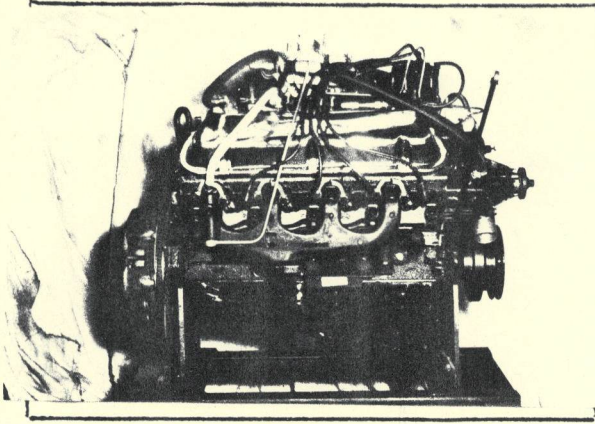
Model

Tiger.

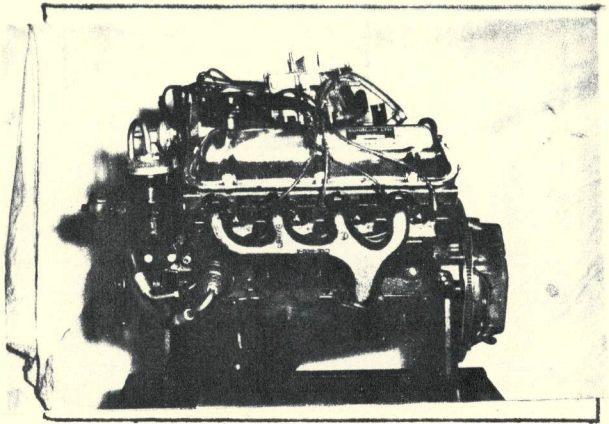
F.I.A. Rec.no.

509

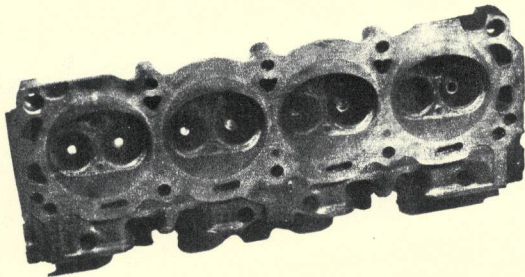
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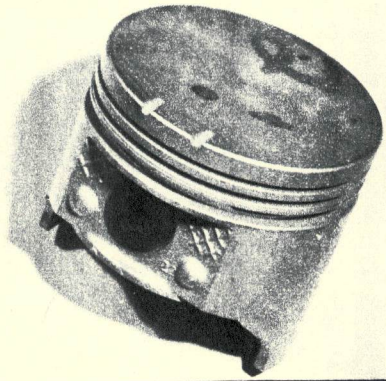
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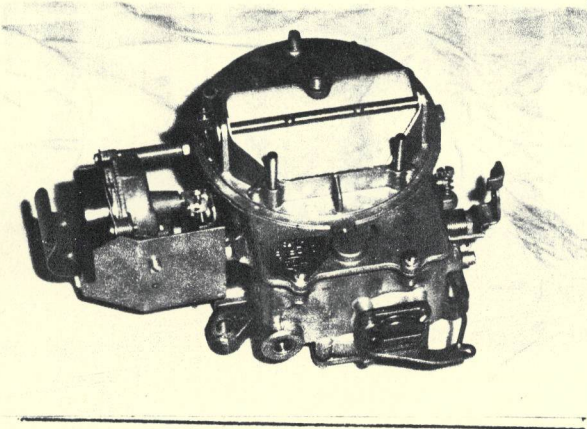
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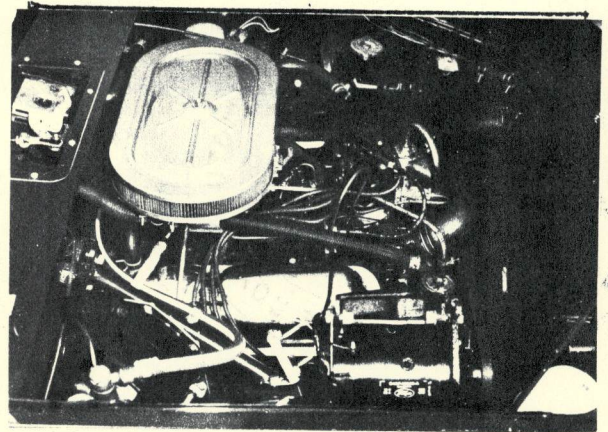
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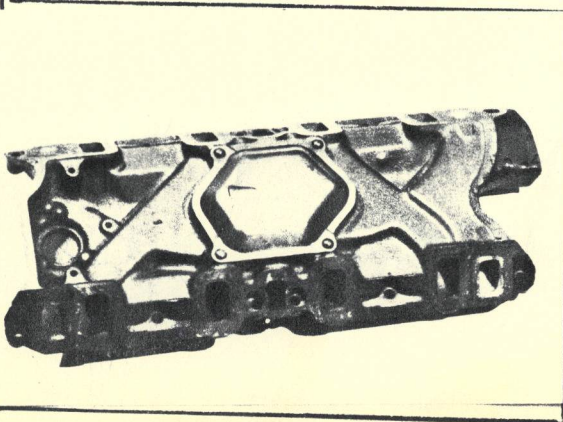
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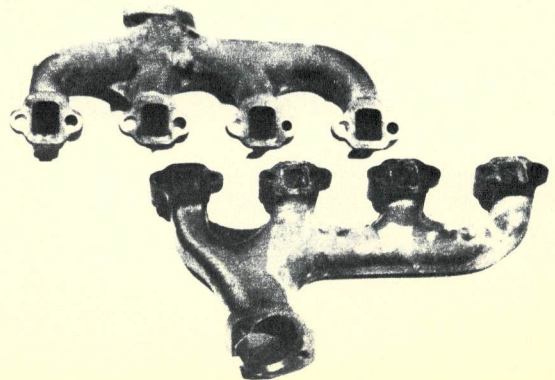
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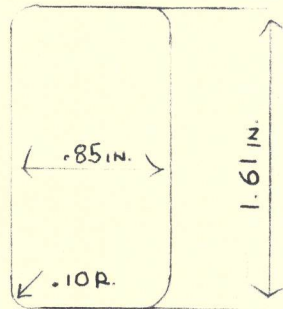
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Q

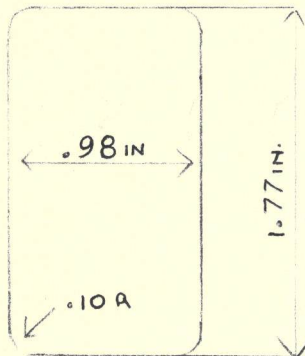


Drawing inlet manifold ports, side of cylinder head. Indicate scale or dimensions and manufacturing tolerance.



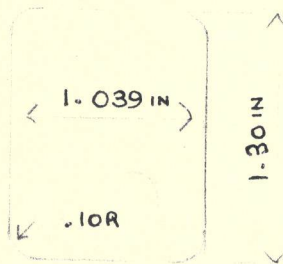
Cast in Manifold

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



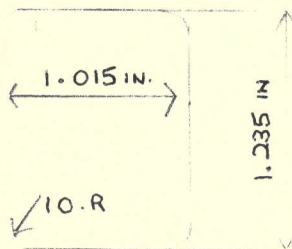
Cast in Cylinder Head

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

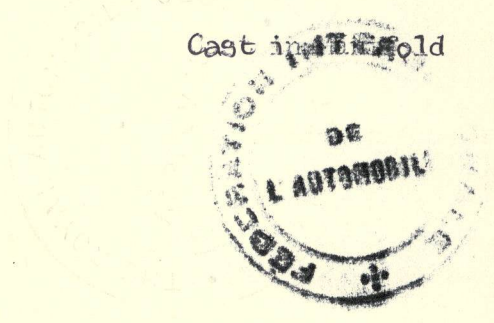


Cast in Manifold

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



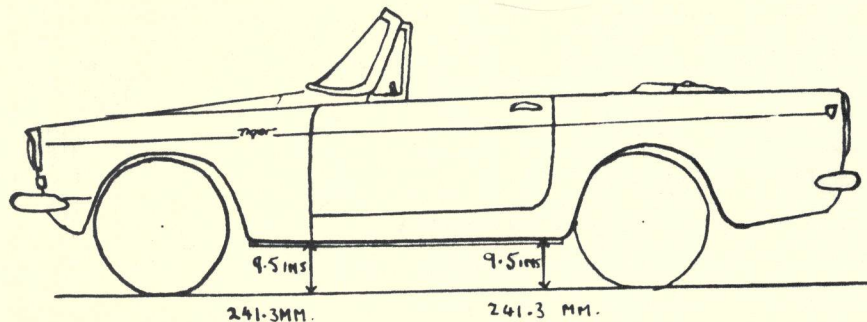
Cast in Cylinder Head



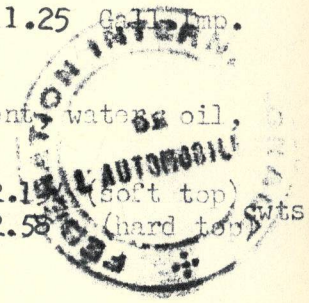
Make Sunbeam. Model Tiger. F.I.A. Rec.no. 509

NOTE 1. All dimensions must be given in two measuring systems, see Note 3.  
CAPACITIES AND DIMENSIONS.

1.	Wheelbase	2184	mm	86	inches.
2.	Front track	1331	mm.	52.4	inches.
3.	Rear track.	1229.3	mm.	48.4	inches.



4.	Overall length of the car	3962	cm.	156	inches.
5.	Overall width of the car	1537	cm.	60.5	inches.
6.	Overall height of the car	1308	cm.	51.5	inches.
7.	Capacity of fuel tank (reserve included)	51.143	ltrs.	13.5	Gall.US
				11.25	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:	1124.474	(soft top) kg.	2479	(soft top) lb.
		1147.154	(hard top) kg.	2529	(hard top) lb.



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 ltr
1 foot/pied	- 30.4794 cm.	1 pint (pt)	- 0.568 ltr
1 sq. inch/pouce carre	- 6.452 cm2.	1 gallon Imp.	- 4.546 ltr
1 cubic inch/pouce cube	- 16.387 cm3.	1 gallon US.	- 3.785 ltr
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) Pressed steel with fibre hood.

SEPARATE CONSTRUCTION - MATERIALS

22. Chassis 23. Coachwork  
 24. Number of doors 2 Material(s) Pressed steel.  
 25. Bonnet Pressed steel 26. Boot Lid Pressed steel.  
 27. Rear Window I.C.I. 'Vybak' 28. Windscreen Triplex laminated glass  
 29. Front door windows Triplex safety (toughened) glass 30. Rear door windows none.  
 31. Sliding system of door windows Winding vertical  
 32. Material(s) of rear-quarter light Safety-glass (on detachable hard-top variant only)

ACCESSORIES AND UPHOLSTERY

38. Interior heating : yes - no 39. Air conditioning : ~~yes~~ - no  
 40. Ventillation : yes - no  
 41. Front seats, type of upholstery I.C.I. 'Ambla'.  
 42. Weight of front seat(s), complete with supports and rails, out of the car:

11.34 kg. 25 lbs.

43. Rear seats, type of upholstery nil.

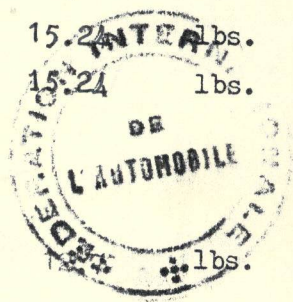
44. Front bumper, material(s) Chrome plated steel Weight 7 kg. 15.24 lbs.  
 45. Rear bumper, material(s) " " Weight 7 kg. 15.24 lbs.

WHEELS

50. Type Disc  
 51. Weight (per wheel, without tyre) 5.76 kg. lbs.  
 52. Method of attachment 4 studs and nuts  
 53. Rim diameter 330.2 mm. 13 ins.  
 54. Rim width 114.2 mm. 4.5 ins.

STEERING

60. Type Rack and Pinion  
 61. Servo-assistance : yes - no  
 62. Number of turns of steering wheel from lock to lock 3.1  
 63. In case of servo-assistance. nil





ENGINE (photographs J and K)

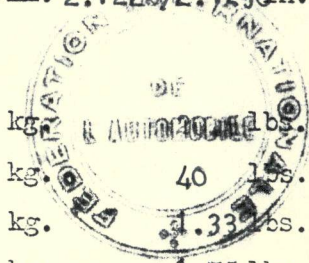
- 130. Cycle 4
- 131. Number of cylinders 8
- 132. Cylinder Arrangement 90° in V
- 133. Bore 96.5 mm. 3.80 in.
- 134. Stroke 73 mm. 2.87 in.
- 135. Capacity per cylinder 532.6 cm<sup>3</sup> 32.5 cu.in.
- 136. Total cylinder capacity 4261 cm<sup>3</sup> 260 cu.in.
- 137. Material(s) of cylinder block Cast iron.
- 138. Material(s) of sleeves (if fitted) none.
- 139. Cylinder head, material(s) Cast iron Number fitted 2
- 140. Number of inlet ports 8
- 141. Number of exhaust ports 8
- 142. Compression ratio 8.8 : 1
- 143. Volume of one combustion chamber 66.4 / 70.2 68.3 cm<sup>3</sup> 4.16 cu.in.
- 144. Piston, material Aluminium alloy Tin Plated
- 145. Number of rings 2 compression and 1 scrape
- 146. Distance from gudgeon pin centre line to highest point of piston crown 40.665 mm. 1.601 in.
- 147. Crankshaft : ~~moulded~~ <sup>Cast</sup> / Stamped
- 148. Type of crankshaft : integral / ...Yes...
- 149. Number of crankshaft main bearings 5
- 150. Material of bearing cap Cast iron.
- 151. System of lubrication : ~~dry sump~~ / oil in sump
- 152. Capacity, lubricant 4.83 ltrs. 8.5 IMP pts. 5 Quarts U.S.
- 153. Oil cooler : yes / no
- 154. Method of engine cooling Water (Pump)
- 155. Capacity of cooling system 15.3 ltrs. 27 pts. 16.2 quarts U.S.
- 156. Cooling fan (if fitted) dia. 355 cm. 14 in.
- 157. Number of blades of cooling fan 4

Bearings

- 158. Crankshaft main, type Steel shell inlaid copper lead. Dia. 57.09/57.11 mm. 2.2482/2.2490 in.
- 159. Connecting rod, big end Steel shell copper lead alloy lined Dia. 53.91/53.93 mm. 2.1223/2.1236 in.

Weights

- 160. Flywheel (clean) 9 kg. 19.8 lbs.
- 161. Flywheel with clutch (all turning parts). 18 kg. 40 lbs.
- 162. Crankshaft 17 kg. 37.25 lbs.
- 163. Connecting rod .6 kg. 1.33 lbs.
- 164. Piston with rings and pin 0.794 kg. 1.75 lbs.



FOUR STROKE ENGINES

170. Number of camshafts 1 171. Location Centre of Vee.  
 172. Type of camshaft drive Chain  
 173. Type of valve operation Push Rod.  
 INLET (see page 4)\*  
 180. Material(s) of inlet manifold Cast iron  
 181. Diameter of valves Min 42.2 mm. 1.661 ins.  
 Max 42.6 1.677  
 182. Max. valve lift 9.169 mm. .361 in. 183. Number of valve springs 1  
 184. Type of spring Coil 185. Number of valves per cylinder 1  
 186. Tappet clearance for checking timing (cold) 2.083 mm. 0.082 ins.  
 3.861 0.152  
 187. Valves open at (with tolerance for tappet clearance indicated) 21° B.T.D.C.  
 188. Valves close at (with tolerance for tappet clearance indicated) 51° A.B.D.C.  
 189. Air filter, type A.C. Paper Element.

EXHAUST (see page 4)

195. Material(s) of exhaust manifold Cast iron.  
 196. Diameter of valves Min. 36.6 mm. 1.441 ins.  
 Max. 37.0 1.457  
 197. Max. valve lift 9.169 mm. .361 in. 198. Number of valve springs 1  
 199. Type of spring Coil 200. Number of valves per cylinder 1  
 201. Tappet clearance for checking timing (cold) 2.083 mm. 0.082 ins.  
 3.861 0.152  
 202. Valves open at (with tolerance for tappet clearance indicated) 57° B.B.D.C.  
 203. Valves close at (with tolerance for tappet clearance indicated) 15° A.T.D.C.

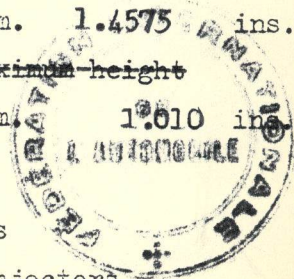
CARBURETION (photograph N)

210. Number of carburettors fitted 1 211. Type 2 barrel  
 212. Make Ford. 213. Model C.4 DF. 9510 - E  
 214. Number of mixture passages per carburettor 4  
 215. Flange hole diameter of exit port(s) of carburettor 36.51 mm. 1.4575 ins.  
 216. Minimum diameter of venturi/~~minimum diam., with piston at maximum height~~  
 25.65 mm. 1.010 ins.

INJECTION (if fitted) nil.

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.

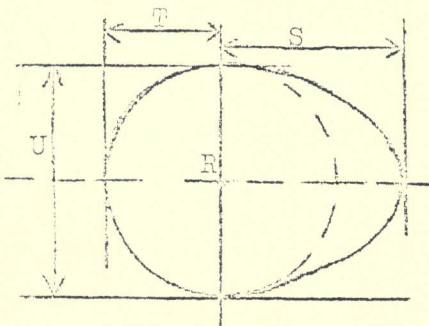


ENGINE ACCESSORIES

- 230. Fuel pump : ~~mechanical and~~/or electric.
- 231. No.fitted 1
- 232. Type of ignition system Coil 233. No.of distributors 1
- 234. No. of ignition coils 1 235. No. of spark plugs per cylinder 1
- 236. Generator, number fitted 1 237. Method of drive Belt
- 238. Voltage of generator 12 volts. 239. Battery, number 1
- 240. Location In luggage compartment
- 241. Voltage of battery 12 volts

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

- 250. Max. engine output 164 (type of horsepower: Gross ) at 4,400 rpm  
B.H.P.
- 251. Max. rpm 4,700 output at that figure not available for publication.
- 252. Max torque 258 lb. ft. at 2,200 rpm
- 253. Max speed of the car 192 km/hour 120 miles/hour



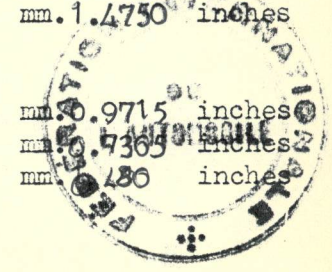
R = centre of  
canshaft.

Inlet cam

- S = 24.676 mm.0.9715 inches
- T = 18.555 mm.0.7305 inches
- U = 37.465 mm.1.4750 inches

Exhaust cam

- S = 24.676 mm.0.9715 inches
- T = 18.555 mm.0.7305 inches
- U = 37.592 mm.1.480 inches



DRIVE TRAIN

CLUTCH

- 260. Type of clutch Ford dry plate. 261. No of plates Single dry plate
- 262. Dia. of clutch plates 25.4 cm. 10 ins..
- 263. Dia. of linings, inside 17.145 cm. 6.75 ins.  
outside 25.4 cm. 10 ins.
- 264. Method of operating clutch Hydraulic with centrifugal assistance

GEAR BOX (photograph H)

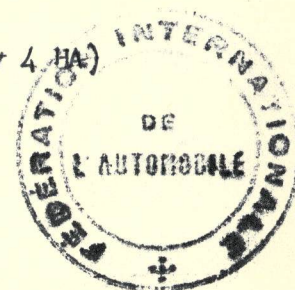
- 270. Manual type, make Ford type H E H - E
- 271. No. of gear-box ratios forward 4 272. Synchronized forward ratios 4
- 273. Location of gear-shift Centre floor
- 274. Automatic, make - type -
- 275. No. of forward ratios - 276. Location of gear shift -

277.	Manual		Automatic		Alternative manual / automatic			
	Ratio	No.teeth	Ratio	No.teeth	Ratio	No.teeth	Ratio	No.teeth
1	2.32:1	$\frac{23}{25} \times \frac{32}{15}$			2.78	$\frac{30}{23} \times \frac{32}{15}$		
2	1.69	$\frac{23}{25} \times \frac{28}{18}$			1.93	$\frac{30}{23} \times \frac{31}{21}$		
3	1.29	$\frac{23}{25} \times \frac{25}{19}$			1.36	$\frac{30}{23} \times \frac{25}{24}$		
4	1.0	Direct			1.0	Direct		
5								
6								
re-verse					2.32			

- 278. Overdrive, type -
- 279. Forward gears on which overdrive can be selected -
- 280. Overdrive ratio

FINAL DRIVE

- 290. Type of final drive Semi floating. Hypoid (Salisbury 4 HA)
- 291. Type of differential Double gears
- 292. Type of limited slip differential (if fitted) -
- 293. Final drive ratio 2.88 : 1  
Number of teeth 49 and 17



Make Sunbeam

Model Tiger.

F.I.A. Rec.No. 509

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, 184, 186, 187, 188, 189, 199, 201, 202, 203, 212, 213, 215, 216, 222, 225, 230, 250, 251, 252, 253, and photographs I, M and N.

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.

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

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.....on.....19.. rec.no.....List.....  
on.....19.. rec.no.....List.....on.....19.. rec.no.....List.....

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



FEDERATION INTERNATIONALE DE L'AUTOMOBILE.  
SUPPLEMENT TO FORM OF RECOGNITION.

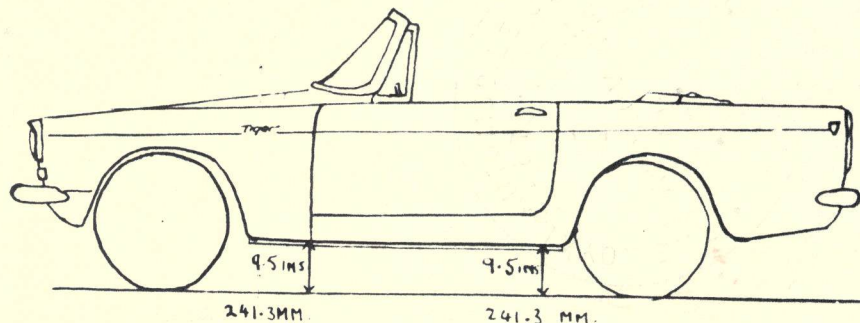
Manufacturer: Sunbeam Talbot Limited ( Rootes Group ).

Model: Sunbeam Tiger.

1. Wheels. Magnesium Alloy wheels available, Part No. 5221007.
50. Type: Ventilated magnesium alloy.
51. Weight: (per wheel, without tyre), 4.08 Kgs. 9lb.
52. Method of Attachment: 4 Stud with 1 spacer per wheel at front and 2 spacers per wheel at rear.
53. Rim diameter: 330.2 mm. 13 inches.

resulting increase in track with magnesium alloy wheels:

Front:	1330.	mm.	52.44	inches.
Rear:	1254.1	mm.	49.375	inches.



2. Limited slip differential available ; Part No. 1229810.

292. Type: Salisbury Powr Lok.

3. Final Drive Ratio's: Part No. 5221008.

293. Alternative final drive ratio: 3 $\frac{1}{2}$ . 77 : 1  
No. of teeth.



## FEDERATION INTERNATIONALE DE L'AUTOMOBILE.

Supplement to Form of Recognition.

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Manufacturer: Sunbeam Talbot Limited. (Rover Group.)

Model: Sunbeam Tiger.

The following optional equipment is available for this car:-

1. Steering.

Alternative steering rack. Part No. 5221021.

60. Type ; Rack and Pinion.

61. Servo Assistance : No.

62. Number of turns of steering wheel from lock to lock : 2.33

63. In case of servo assistance : nil.

2. The following items are supplied when alternative camshafts are fitted.

(i) Tachometer reading to 8,000 R.P.M. in place of 5,500 R.P.M.  
Part No. 5221020.

(ii) Mechanically operated tappets fitted in place of hydraulic.

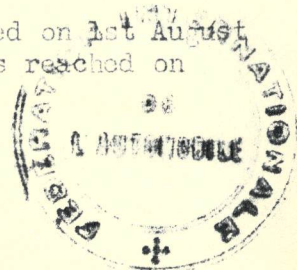
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Amendment to Specification of Interior Coachwork.

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Cars built after Chassis Number 382000001 are fitted with fixed leather-cloth rear squab and hood container in place of steel type previously fitted. No resulting change in weight of vehicle or exterior appearance.

The manufacture of the amended coachwork was started on 1st August 1965 and the minimum production of 500 identical cars was reached on 27th October 1965.



TIGERFEDERATION INTERNATIONALE DE L'AUTOMOBILESupplement No. 2 to Form of Recognition

Manufacturer: Rootes Group,  
Sunbeam Talbot Ltd.

Model: Tiger

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

CAPACITIES AND DIMENSIONS

7. Supplementary fuel tank kit to be used in conjunction with existing fuel tanks. Part No. 1219175 A.

Capacity of fuel tank (reserve included)

36.5 ltrs.      10.2 Gall.US.      8.5 Gall.Imp.

Total capacity of all fuel tanks

87.6 ltrs.      23.7 Gall.US.      19.75 Gall.Imp.

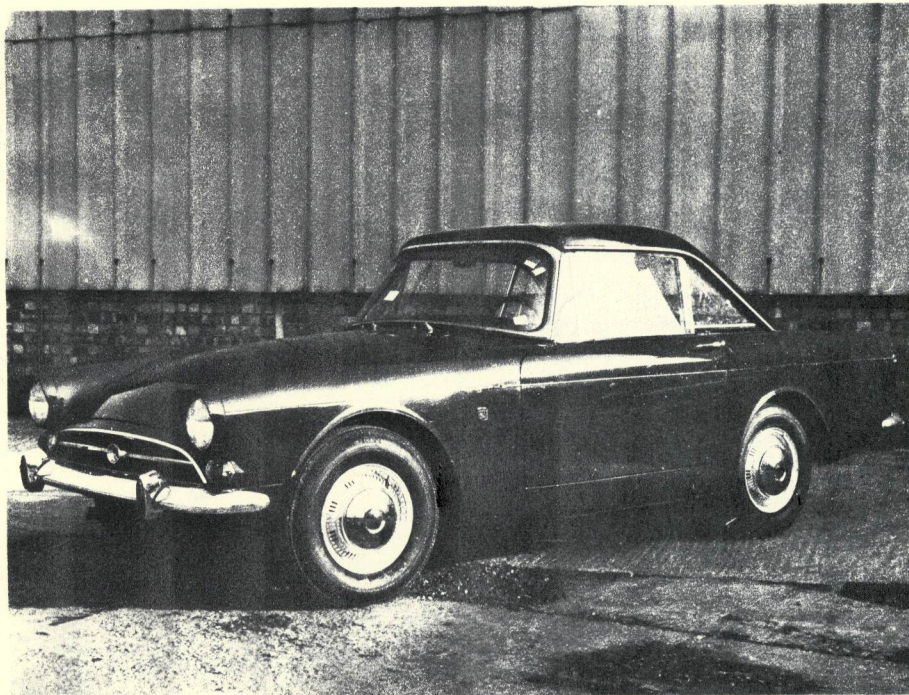


Federation Internationale de l'Automobile.  
Supplement to Form of Recognition.

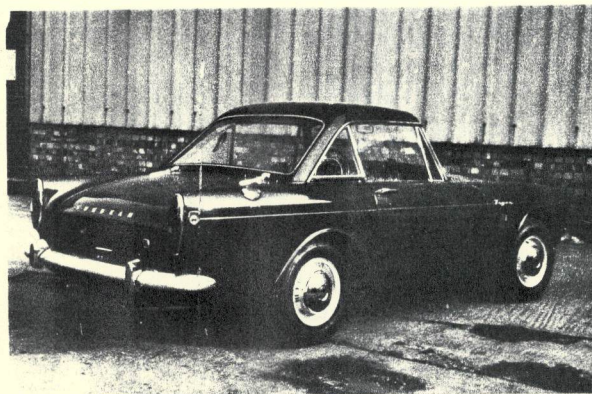
Manufacturer: Sunbeam Talbot Limited.

Model: Sunbeam Tiger.

1. Variation available in the form of detachable hard top :-



Photograph A, 3/4 view of car from front.



Photograph B, 3/4 view of car from rear.



509

NOT  
SAMPLED

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

Rootes Group.	Cylinder-capacity.....4261.....cm <sup>3</sup> .....260.....in <sup>3</sup>
Manufacturer.....Sunbeam Talbot Ltd.....	Model.....Tiger.....
Serial No. of chassis B.9470001.....	Manufacturer.....Sunbeam Talbot Ltd.....
engine.....1000.....	Manufacturer.....Ford Motor Co. Ltd. U.S.A.....
Recognition is valid from.....196.....	List.....

The manufacturing of the model described in this recognition form was started on  
.1st July.....1964 and the minimum production of....500.....identical cars,  
in accordance with the specifications of this form was reached on..31st Oct..1964

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



F.I.A. Stamp

R.A.C. Stamp

Make Sunbeam

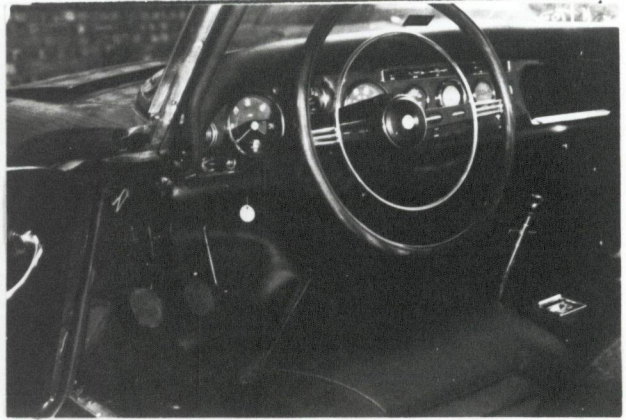
Model Tiger.

F.I.A. Rec.no.

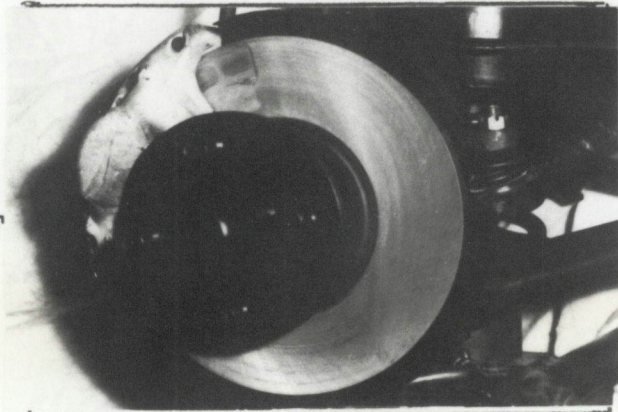
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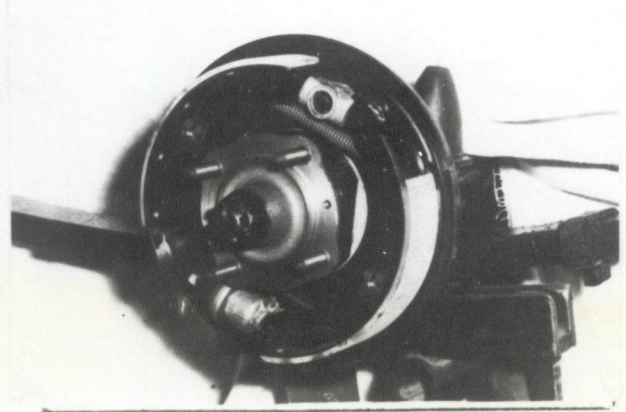
C



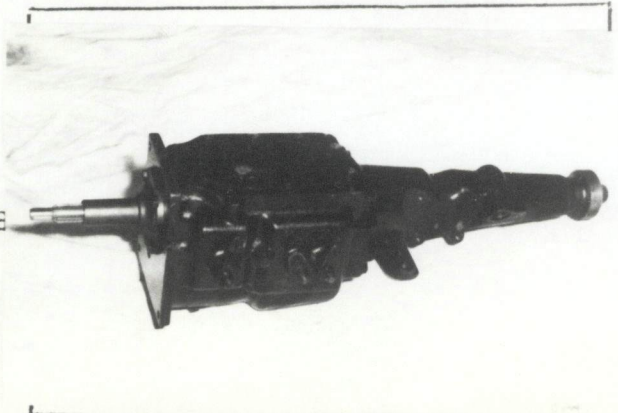
F



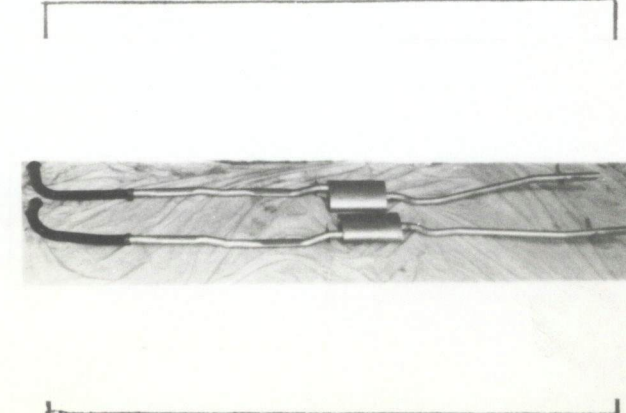
G



E



I



Make

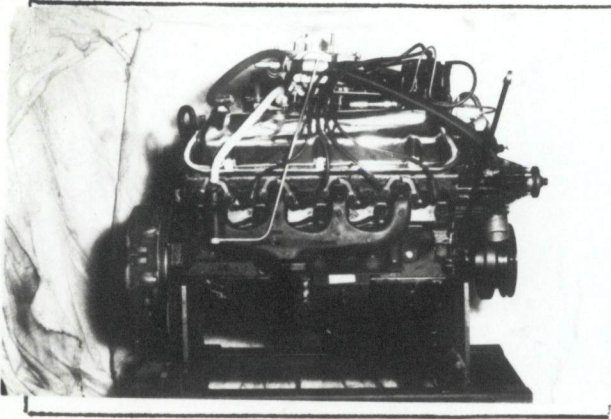
Sunbeam

Model

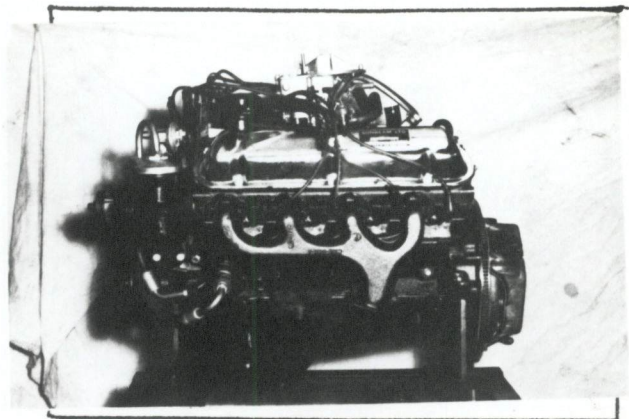
Tiger.

F.I.A. Rec.no.

J



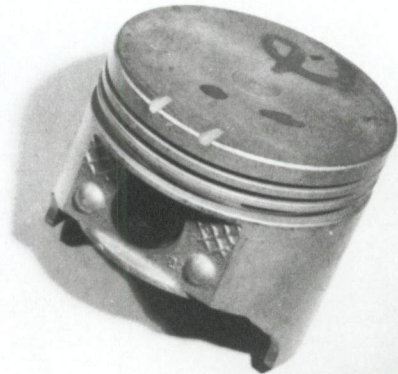
K



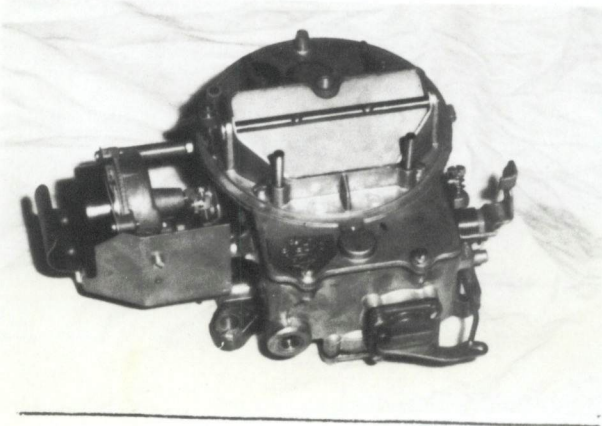
L



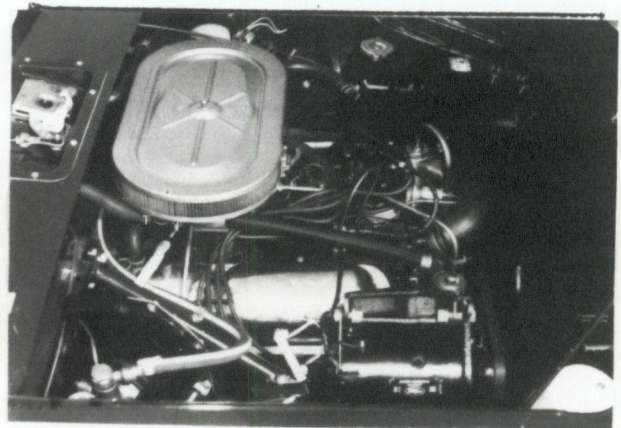
M



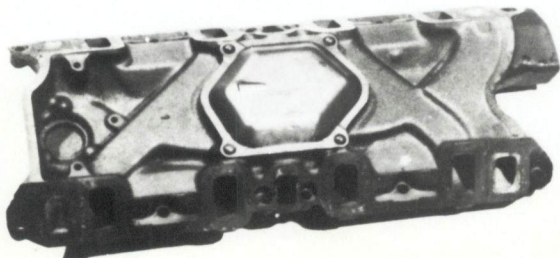
N



O



P



Q



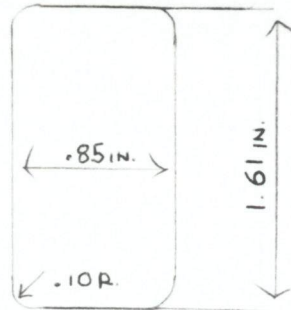
Make

Sunbeam

Model Tiger.

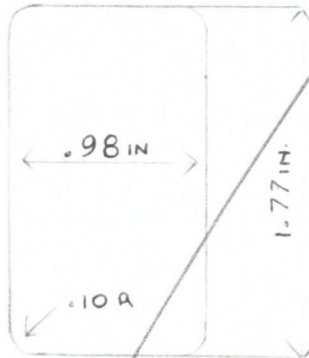
F.I.A. Rec.no.

Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



Cast in Manifold

Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



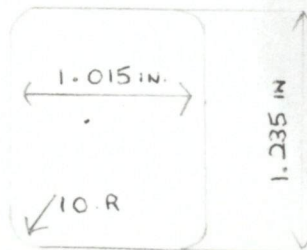
Cast in Cylinder Head

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



Cast in Manifold

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



Cast in Cylinder Head

Make Sunbeam Model Tiger. F.I.A. Rec.no.

NOTE 1 All dimensions must be given in two measuring systems, see Note 3.

CAPACITIES AND DIMENSIONS

1.	Wheelbase	2184	mm.	86	inches
2.	Front track	1314	mm.	51.75	inches
3.	Rear track	1235	mm.	48.62	inches

See Note 2

See Note 2

4.	Overall length of the car	3962	cm.	156	inches
5.	Overall width of the car	1537	cm.	60.5	inches
6.	Overall height of the car	1308	cm.	51.5	inches
7.	Capacity of fuel tank (reserve included)	51.143 ltrs.	13.5 Gall.US	11.25 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:				
	1124.474 (soft top) kg.	2529	2479	lbs.	22.134 (soft top) cwts.
	1147.154 (hard top)	(hard top)	(soft top)		22.58 (hard top)

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 <sup>2</sup>	1 gallon Imp.	- 4.546 ltrs
1 cubin inch/pouce cube	- 16.387 cm <sup>3</sup>	1 gallon US	- 3.785 ltrs
1 pound/livre (lb)	- 453.593 gr.	1 hundred weight(cwt)	- 50.802 kg

Make Sunbeam. Model Tiger F.I.A. Rec.no.

CHASSIS AND COACHWORK (Photographs A, B and C)

20. Chassis/body construction : ~~separate~~ / unitary construction  
 21. Unitary construction, material(s) Pressed steel with fibre hood.

SEPARATE CONSTRUCTION - MATERIALS

- |   |  |
|---|--|
| 22. Chassis   | 23. Coachwork                                      |
| 24. Number of doors 2                                   | Material(s) Pressed steel.                         |
| 25. Bonnet Pressed steel                                | 26. Boot Lid Pressed steel.                        |
| 27. Rear Window I.C.I. 'Vybak'                          | 28. Windscreen Triplex laminated glass             |
| 29. Front door windows Triplex safety (toughened) glass | 30. Rear door windows none.                        |
| 31. Sliding system of door windows                      | Winding vertical                                   |
| 32. Material(s) of rear-quarter light                   | Safety-glass (on detachable hard-top variant only) |

ACCESSORIES AND UPHOLSTERY

38. Interior heating : yes - no 39. Air conditioning : ~~yes~~ - no  
 40. Ventillation : yes - no  
 41. Front seats, type of upholstery I.C.I. 'Ambla'.

42. Weight of front seat(s), complete with supports and rails, out of the car:  
 11.34 kg. 25 lbs.  
 43. Rear seats, type of upholstery nil.  
 44. Front bumper, material(s) Chrome plated steel Weight 7 kg. 15.24 lbs.  
 45. Rear bumper, material(s) " " Weight 7 kg. 15.24 lbs.

WHEELS

50. Type Disc  
 51. Weight (per wheel, without tyre) 5.76 kg. 12.7 lbs.  
 52. Method of attachment 4 studs and nuts  
 53. Rim diameter 330.2 mm. 13 ins.  
 54. Rim width 114.2 mm. 4.5 ins.

STEERING

60. Type Rack and Pinion  
 61. Servo-assistance : yes - no  
 62. Number of turns of steering wheel from lock to lock 3.1  
 63. In case of servo-assistance. nil

Make Sunbeam

Model Tiger.

F.I.A. Rec.no.

SUSPENSION

- 70. Front suspension (photograph D), type I:F.S. S/L Wishbone
- 71. Type of spring Coil
- 72. Stabiliser (if fitted) Front - transverse Torsion Bar
- 73. Number of shock absorbers 2
- 74. Type Telescopic
- 78. Rear suspension (photograph E), type Orthodox, beam axle.
- 79. Type of spring Semi-elliptic leaf.
- 80. Stabiliser (if fitted) Panhard Bar.
- 81. Number of shock absorbers 2
- 82. Type Direct acting Telescopic

BRAKES (photographs F and G)

- 90. Method of operation Hydraulic
- 91. Servo-assistance (if fitted), type Vacuum Servo
- 92. Number of hydraulic master cylinders 1

		FRONT		REAR
93. Number of cylinders per wheel		2		1
94. Bore of wheel cylinder(s)	54	mm. 2.125 inches	19	mm. .75 inches

Drum Brakes

95. Inside diameter		mm. inches	229	mm. 9 inches
96. Length of brake linings		mm. inches	213	mm. 8.6 inches
97. Width of brake linings		mm. inches	44.4	mm. 1.75 inches
98. Number of shoes per brake 2		mm. inches		mm. inches
99. Total area per brake		mm <sup>2</sup> sq.in.	194.8	mm <sup>2</sup> 30.2 sq.in.

Disc Brakes

100. Outside diameter	250	mm. 9.85 inches		mm. inches
101 Thickness of disc	12.7	mm. 0.50 inches		mm. inches
102 Length of brake linings		mm. inches		mm. inches
		Max- 73.66 mm. 2.9 inches		mm. inches
		Min- 53.34 mm. 2.1 inches		mm. inches
103 Width of brake linings	52	mm. 2.05 inches		mm. inches
104 Number of pads per brake	2			
105 Total area per brake	67.1	mm <sup>2</sup> 210.4 sq.in.		mm <sup>2</sup> sq.in.

Make

Sunbeam

Model Tiger.

F.I.A. Rec.no.

## ENGINE (photographs J and K)

130. Cycle	4	131. Number of cylinders	8
132. Cylinder Arrangement	90° in V		
133. Bore	96.5 mm.	134. Stroke	73 mm. 2.87 in.
135. Capacity per cylinder			532.6 cm <sup>3</sup> 32.5 cu.in.
136. Total cylinder capacity			4261 cm <sup>3</sup> 260 cu.in.
137. Material(s) of cylinder block		Cast iron.	
138. Material(s) of sleeves (if fitted)		none.	
139. Cylinder head, material(s)	Cast iron	Number fitted	2
140. Number of inlet ports	8	141. Number of exhaust ports	8
142. Compression ratio	8.8 : 1		
143. Volume of one combustion chamber		66.4 / 70.2 68.3 cm <sup>3</sup>	4.16 cu.in.
144. Piston, material	Aluminium alloy Tin Plated	145. Number of rings	2 compression and 1 scraper
146. Distance from gudgeon pin centre line to highest point of piston crown			40.665 mm. 1.601 in.
147. Crankshaft : <del>moulded</del> <sup>Cast</sup> / Stamped		148. Type of crankshaft :	integral/...Yes..
149. Number of crankshaft main bearings	5		
150. Material of bearing cap		Cast iron.	
151. System of lubrication :	<del>dry sump</del> / oil in sump		
152. Capacity, lubricant	4.83 ltrs.	3.5 IMP pts. 5	Quarts U.S.
153. Oil cooler : <del>yes</del> / no		154. Method of engine cooling	Water (Pump)
155. Capacity of cooling system	15.3 ltrs.	27 pts.	16.2 quarts U.S.
156. Cooling fan (if fitted) dia.		355 cm.	14 in.
157. Number of blades of cooling fan	4		
Bearings			
158. Crankshaft main, type	Steel shell implated copper lead.	Dia.	57.09/57.11 mm. 2.2482/2.2490 in.
159. Connecting rod, big end	Steel shell copper lead alloy lined	Dia.	53.91/53.93 mm. 2.1228/2.1236 in.
Weights			
160. Flywheel (clean)		9 kg.	20.5 lbs.
161. Flywheel with clutch (all turning parts).		18 kg.	40 lbs.
162. Crankshaft	17 kg. 37.25 lbs.	163. Connecting rod	.6 kg. 1.33 lbs.
164. Piston with rings and pin		0.794 kg.	1.75 lbs.

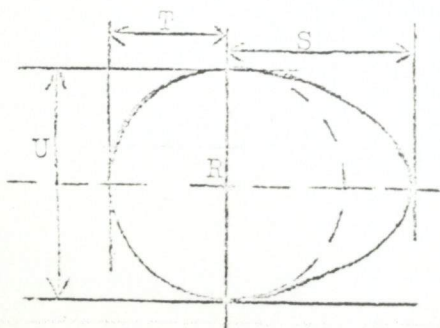


ENGINE ACCESSORIES

- 230. Fuel pump : ~~mechanical~~ and/or electric.
- 231. No. fitted 1
- 232. Type of ignition system Coil
- 233. No. of distributors 1
- 234. No. of ignition coils 1
- 235. No. of spark plugs per cylinder 1
- 236. Generator, number fitted 1
- 237. Method of drive Belt
- 238. Voltage of generator 12 volts.
- 239. Battery, number 1
- 240. Location In luggage compartment
- 241. Voltage of battery 12 volts

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

- 250. Max. engine output 164 (type of horsepower: <sup>Gross</sup> ) at 4,400 rpm  
B.H.P.
- 251. Max. rpm 4,700 output at that figure not available for publication.
- 252. Max torque 253 lb. ft. at 2,200 rpm
- 253. Max speed of the car 192 km/hour 120 miles/hour



R = centre of camshaft.

Inlet cam

S =	24.676	mm.	0.9715	inches
T =	18.555	mm.	0.7305	inches
U =	37.465	mm.	1.4750	inches

Exhaust cam

S =	24.676	mm.	0.9715	inches
T =	18.555	mm.	0.7305	inches
U =	37.592	mm.	1.480	inches



Make Sunbeam

Model Tiger.

F.I.A. Rec.No.

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, 184, 186, 187, 188, 189, 199, 201, 202, 203, 212, 213, 215, 216, 222, 225, 230, 250, 251, 252, 253, and photographs I, M and N.

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.

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

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.....on.....19.. rec.no.....List.....  
on.....19.. rec.no.....List.....on.....19.. rec.no.....List.....

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

Make

Sunbeam

Model

Tiger.

F.I.A. Ref.no.

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 mm.

Height mm. Area mm2

Size of exhaust port:

Length measured around cylinder wall mm.

Height mm. Area mm2

Size of transfer port:

Length measured around cylinder wall mm.

Height mm. Area mm2.

Size of piston port:

Length measured around piston mm.

Height mm. Area mm2

Method of pre-compression

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

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

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

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

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

Federation Internationale de l'Automobile.  
Supplement to Form of Recognition.

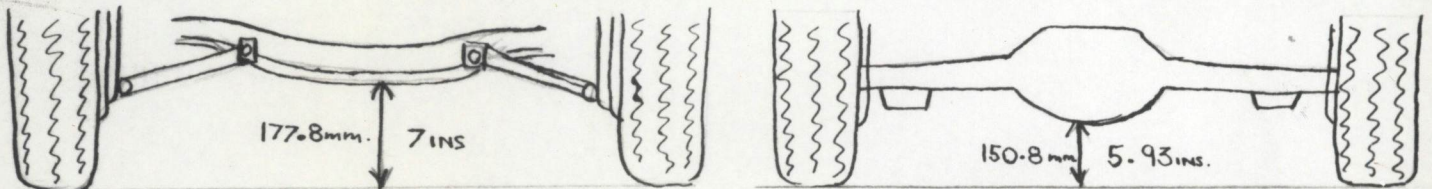
Manufacturer: Sunbeam Talbot Limited (Rootes Group.)

Model: Sunbeam Tiger.

1. Wheels. Magnesium alloy wheels available, Part No. 5221007.
50. Type: Ventilated magnesium alloy.
51. Weight: (per wheel, without tyre), 4.08 Kgs. 9 lbs.
52. Method of Attachment: 4 Stud with 1 spacer per wheel at front and 2 spacers per wheel at rear.
53. Rim diameter: 330.2 mm. 13 inches.

Resulting increase in track with magnesium alloy wheels:

Front:	1340.6	mm.	52.781	inches.
Rear:	1257.3	mm.	49.5	inches.



2. Limited slip differential available; Part No. 1229810.

292. Type: Salisbury Powr Lok.

3. Final Drive Ratios: Part No. 5221008

293. Alternative final drive ratio: 3.77 : 1

No. of teeth : 49 x 13