

Manufacturers Reference No. for Application

1025



F.I.A. Recognition No.

197

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.....STANDARD TRIUMPH INTERNATIONAL LTD.....

Model.....TRIUMPH SPITFIRE 4. MK II..... Year of Manufacture 1965 ONWARDS

Serial No. of Chassis FC 50,001 Onwards

Engine FC 50,001 HE Onwards

Type of Coachwork.....2 SEATER, 2 DOOR, SOFT TOP.....

Recognition is valid from..... In category Grand Tourisme



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



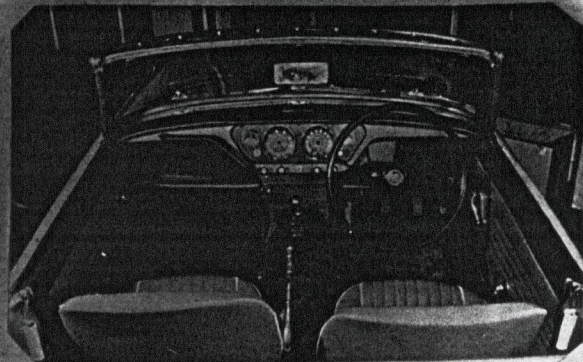
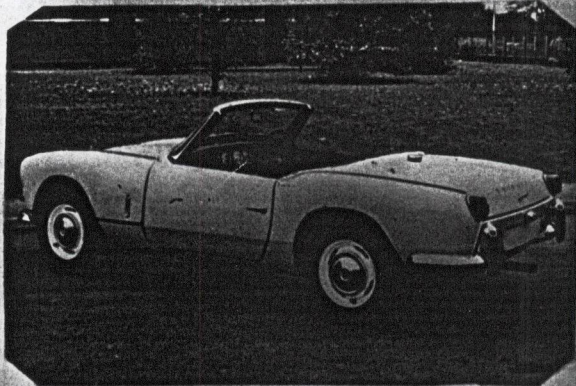
Form: R.F.I.A.

General description of car:

Specify here material/s of chassis/body construction

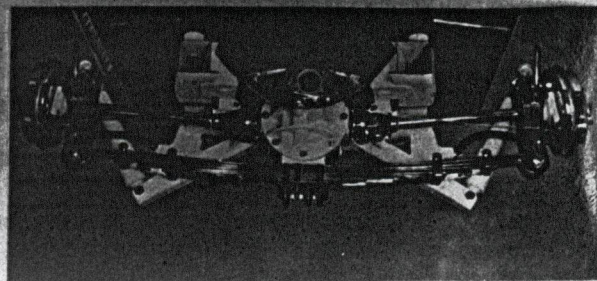
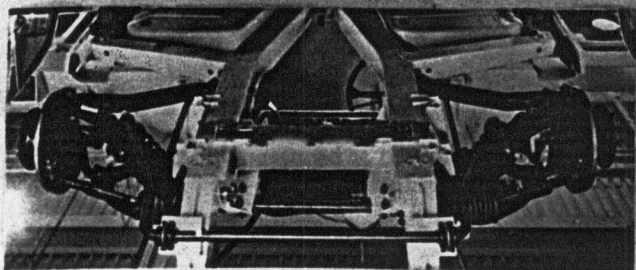
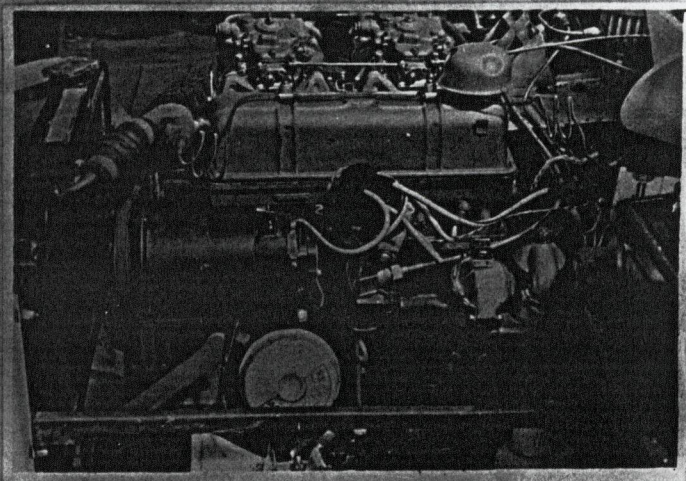
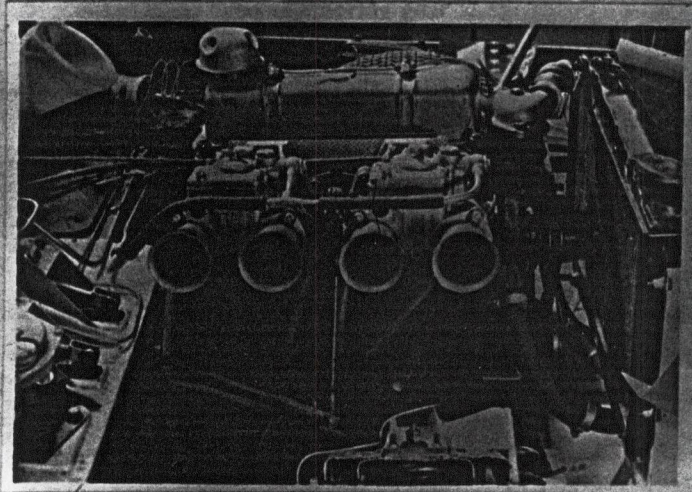
2 Seater Sports Car having steel chassis and steel body, detachable hardtop and independent front and rear suspension.

Photographs to be affixed below.



Engine unit with accessories from right.

Engine unit with accessories from left.



ENGINE

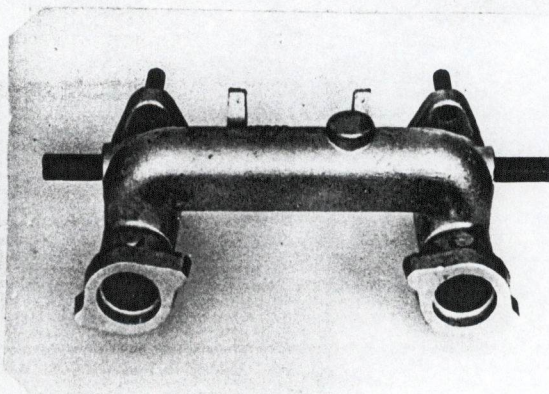
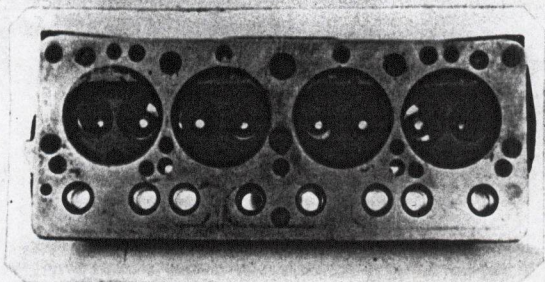
~~HOOK~~ IN LINE
 No. of cylinders 4 ~~XXX~~
~~XXXXXX~~
 Cycle 4 STROKE Firing order 1, 3, 4, 2
 Capacity 1147 c.c. Bore 69.3 m.m. Stroke 76 m.m.
 Maximum rebore 1 m/m Resultant capacity 1171 c.c.
 Material of cylinder block CAST IRON Material of sleeves, if fitted NOT NORMALLY FITTED
 Distance from crankshaft centre line to top face of block at centre line of cylinders 275.8 m.m.
 Material of cylinder head CAST IRON Volume of one combustion chamber 30.14 c.c.
 Compression ratio 9 : 1 or 7.5 : 1
 Material of piston ALUMINIUM ALLOY No. of piston rings 3
 Distance from gudgeon pin centre line to highest point of piston crown 38.46 m.m.
 Bearings { Crankshaft main bearings: Type LEAD INDIUM Dia. 50.8 m.m.
 Connecting rod big end: Type LEAD INDIUM Dia. 41.28 m.m.
 Weights { Flywheel 6.69 kg.
 Crankshaft 10.88 kg.
 Connecting rod .61 kg.
 Piston with rings .3 kg.
 Gudgeon pin .09 kg.
 No. of valves per cylinder 2 Method of valve operation PUSH RODS IN BLOCK
 No. of camshafts 1 Location of camshafts IN BLOCK
 Type of camshaft drive CHAIN
 Diameter of valves: Inlet 31.62 m.m. Exhaust 29.21 m.m.
 Diameter of port at valve seat: Inlet 28.60 m.m. Exhaust 26.31 m.m.
 Tappet clearance for checking timing: Inlet .254 m.m. Exhaust .254 m.m.
 Valves open: Inlet 25° B.T.D.C. Exhaust 65° B.B.D.C.
 Valves close: Inlet 65° A.B.D.C. Exhaust 25° A.T.D.C.
 Maximum valve lift: Inlet _____ m.m. Exhaust _____ m.m.
 Degrees of crankshaft rotation from zero to—
 Maximum lift: Inlet 134° Exhaust 134°
 ½ Maximum lift: Inlet 74° Exhaust 74°
 Valve springs: Inlet _____ Exhaust _____
 Type COIL _____ COIL _____
 No. per valve 2 _____ 2 _____
 Carburettor: Type HORIZONTAL No. fitted 2
 (up or down draft, horizontal)
 Make S.U. Model HS.2
 Flange hole diameter 31.8 m.m. Choke diameter VARIABLE m.m.
 Main jet identification No. 90

Air filter: Type A.C. DELCO (Paper element) No. fitted 2 (enclosed in single pressing)

Inlet manifold:

Diameter of flange hole at carburettor 33.3 m.m.

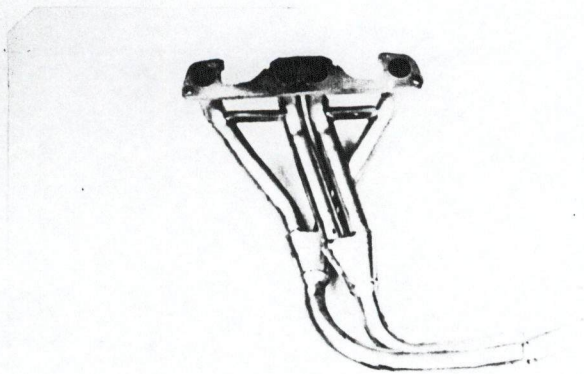
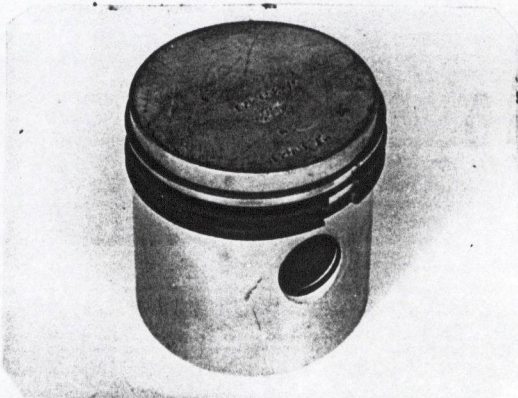
Diameter of flange hole at port 26.9 m.m.



Exhaust manifold:

Diameter of flange hole at port 30.2 m.m.

Diameter of flange hole at connection to silencer inlet pipe 31.8 m.m.



ENGINE ACCESSORIES

Make of fuel pump A.C. No. fitted 1

Method of operation MECHANICAL

Type of ignition system COIL coil or magneto

Make of ignition LUCAS OR A.C. Model

Method of advance and retard CENTRIFUGAL AND VACUUM AUTOMATIC

Make of ignition coil LUCAS Model LA.12

No. of ignition coils 1 Voltage 12

Make of dynamo LUCAS Model C40/1

Voltage of dynamo 12 Maximum output 20 amps.

Make of starter motor LUCAS Model M35C/1

Battery: No. fitted 1 Voltage 12 Capacity 38 amp. hour

Oil Cooler (if fitted) type Air/Oil Radiator Capacity 2/3 pints

Optional 4

MK.II
 Make TRIUMPH Model SPITFIRE 4 F.I.A. Recognition No. 797
 Manufacturers Reference No. of Application 1025

TRANSMISSION

Make of clutch BORG AND BECK Type DIAGHRAGM
 Diameter of clutch plate 6 1/2" No. of plates 1
 Method of operating clutch HYDRAULIC
 Make of gearbox OWN MAKE Type MANUAL SYNCHROMESH
 No. of gearbox ratios 4 FORWARD AND 1 REVERSE
 Method of operating gearshift LEVER ON CENTRE FLOOR
 Location of gearshift ON CENTRE FLOOR
 Is overdrive fitted? OPTIONAL
 Method of controlling overdrive, if fitted ELECTRICAL

	GEARBOX RATIOS		ALTERNATIVE RATIOS					
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1.	3.746	$\frac{29}{16} \times \frac{31}{15}$	2.932	$\frac{26}{19} \times \frac{30}{14}$				
2.	2.158	$\frac{29}{16} \times \frac{25}{21}$	1.779	$\frac{26}{19} \times \frac{26}{20}$				
3.	1.394	$\frac{29}{16} \times \frac{29}{26}$	1.254	$\frac{26}{19} \times \frac{22}{24}$				
4.	1.000	DIRECT	DIRECT					
5.								

Type of final drive HYPOID BEVEL
 Type of differential NON LIMITED SLIP
 Final drive ratio 4.11 : 1 Alternatives 4.55 4.875
 No. of teeth 9/37 9/41 8/39
 Overdrive ratio, if fitted .802 : 1

WHEELS

Type STEEL DISC Weight 5.2 kg.
 Method of attachment 4 STUD FIXING
 Rim diameter 330 m.m. Rim width 89 (3 1/2") or 114 (4 1/2") m.m.
 Tyre size: Front 5.20 x 13" Rear 5.20 x 13"

BRAKES

Method of operation HYDRAULIC
 Is servo assistance fitted? OPTIONAL EXTRA
 Type of servo, if fitted VACUUM
 No. of hydraulic master cylinders 1 Bore 15.9 m.m.

	Front		Rear
No. of wheel cylinders	2 PER WHEEL		1 PER WHEEL
Bore of wheel cylinders	42.8	m.m.	19.08
Inside diameter of brake drums		m.m.	178
No. of shoes per brake			2
Outside diameter of brake discs	232	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	56	m.m.	178
			m.m.
Width	38.1	m.m.	31.6
			m.m.
Total area per brake	8732	m.m. ²	17735
			m.m. ²

SUSPENSION

	Front		Rear
Type	INDEPENDENT		INDEPENDENT
Type of spring	COIL		TRANSVERSE
Is stabiliser fitted?	YES		NO
Type of shock absorber	TELESCOPIC		TELESCOPIC
No. of shock absorbers	1 PER WHEEL		1 PER WHEEL

STEERING

Type of steering gear..... RACK AND PINION

Turning circle of car..... 7.3 m., approx.

No. of turns of steering wheel from lock to lock..... 3.7

CAPACITIES AND DIMENSIONS

Fuel tank..... 41 litres Sump..... 4.4 FROM DRY litres

Radiator..... 5.4 litres

Overall length of car..... 368.5 cm. Overall width of car..... 145 cm.

Overall height of car, unladen (with hood up, if appropriate)..... 120.5 cm.

Distance from floor to top of windscreen:

Highest point..... 108 cm. Lowest point..... 104 cm.

Width of windscreen:

Maximum width..... 115.6 cm. Minimum width..... 103.5 cm.

*Interior width of car..... 111.8 cm.

No. of seats..... 2

Track: Front..... 124.5 cm. Rear..... 122.0 cm.

Wheelbase..... 211 cm. Ground clearance..... 125 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..... ~~475~~ 695 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 preceding information:—

SUMP SKIN SHIELD KIT
~~ALTERNATE EQUIPMENT (APPENDIX 5 PARA. 265)~~

