

Manufacturers Reference No. for Application

1018.



F.I.A. Recognition No.

94

ROYAL AUTOMOBILE CLUB

PALL MALL, LONDON, S.W.I.

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. Year of Manufacture 1962.

Serial No. of Chassis FC 1 Onwards.

Engine FC 1 HE Onwards.

Type of Coachwork 2 SEATER 2 DOOR SOFT TOP.

Recognition is valid from 29 JANV 1963 In category Grand Tourisme.

liste 9/19



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

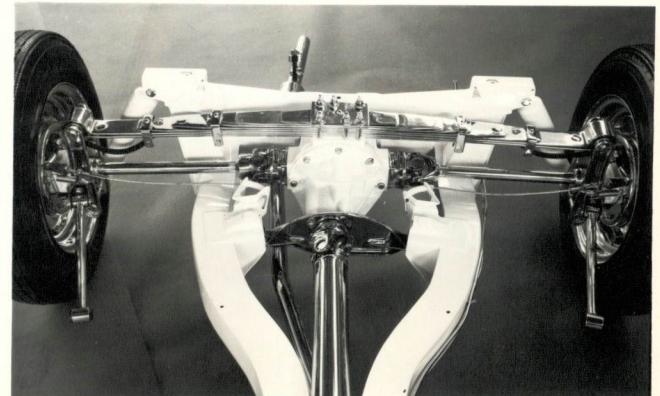
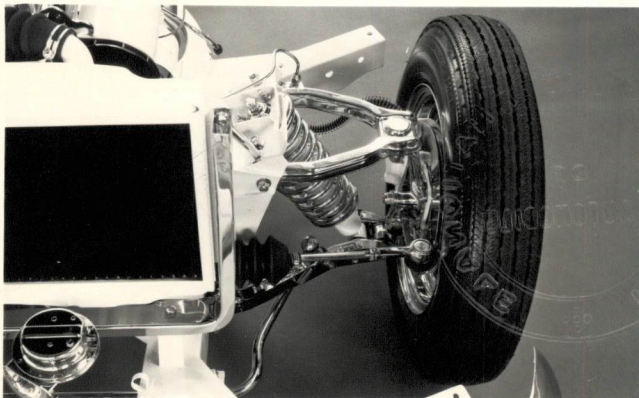
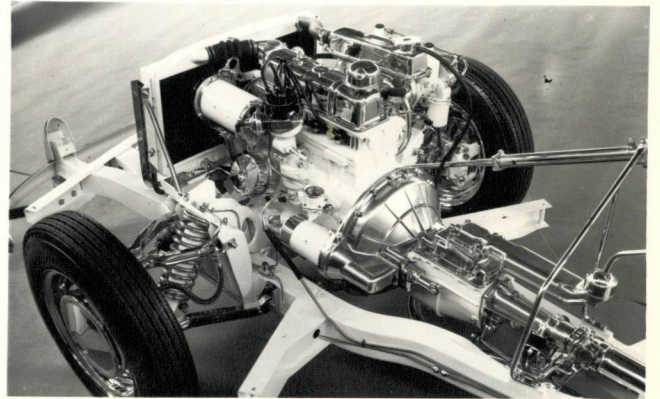
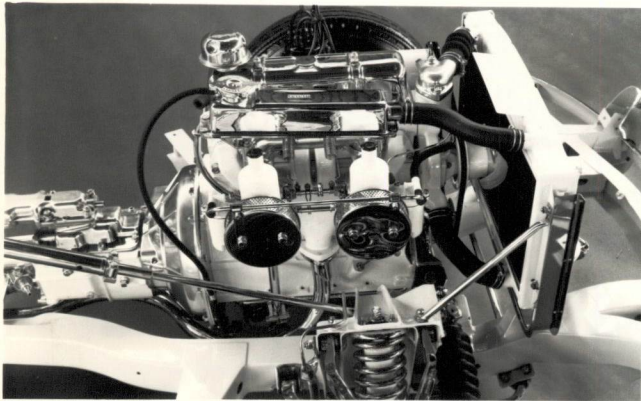
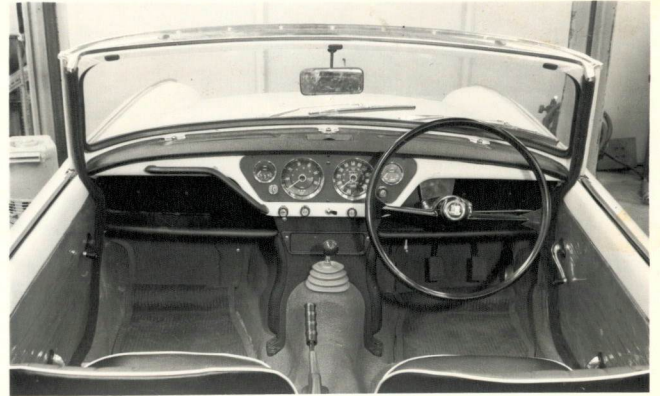
Hubert...

Form: R.F.I.A.

General description of car:

*Specify here material/s of
chassis/body construction*

STEEL CHASSIS AND SEPARATE STEEL BODY.



ENGINE

in line YES.
 No. of cylinders 4 ~~in V~~
 Cycle 4 STROKE. ~~OPPOSITE~~ ~~OPPOSITE~~
 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 9.0 or 7.5 to 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.
 Flywheel 6.69 kg.
 Weights { 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 BY PUSHROD.
 No. of camshafts 1 Location of camshafts IN SIDE OF BLOCK.
 Type of camshaft drive BY CHAIN.
 Diameter of valves: Inlet 31.62 m.m. Exhaust 29.21 m.m.
 Diameter of port at valve seat: Inlet 31.6 m.m. Exhaust 26.31 m.m.
 Tappet clearance for checking timing: Inlet .254 m.m. Exhaust .254 m.m.
 Valves open: Inlet 26° Exhaust 26°
 Valves close: Inlet 60° Exhaust 60°
 Maximum valve lift: Inlet 7.94 m.m. Exhaust 7.94 m.m.
 Degrees of crankshaft rotation from zero to—
 Maximum lift: Inlet 133° Exhaust 133°
 $\frac{3}{4}$ Maximum lift: Inlet 78° Exhaust 78°
 Valve springs: Inlet COIL. Exhaust COIL.
 Type COIL.
 No. per valve 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 FLAME TRAP WIRE GAUZE . No. fitted 2

Inlet manifold:
 Diameter of flange hole at carburettor 31.8 m.m.
 Diameter of flange hole at port 31.8 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 25 x 25 Rectangular. m.m.
 Diameter of flange hole at connection to silencer inlet pipe 39 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 A.C. No. fitted 1

Method of operation MECHANICAL.

Type of ignition system COIL. coil or magneto

Make of ignition LUCAS Model DM 2

Method of advance and retard CENTRIFUGAL AND VACUUM ADVANCE 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 amp. hour

Oil Cooler (if fitted) type AIR/OIL RADIATOR Capacity 2/3 pints
Optional extra.

Make **TRIUMPH.** Model **SPITFIRE 4** F.I.A. Recognition No.

Manufacturers Reference No. of Application **1018**

TRANSMISSION

Make of clutch **BORG AND BECK.** Type **SINGLE DRY PLATE.**
 Diameter of clutch plate **6 1/2"** No. of plates **1**
 Method of operating clutch **HYDRAULIC.**
 Make of gearbox **OWN MAKE.** Type **MANUAL.**
 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? **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.	3.746	$\frac{29 \ 31}{16 \times 15}$						
2.	2.158	$\frac{29 \ 25}{16 \times 21}$						
3.	1.394	$\frac{29 \ 20}{16 \times 21}$						
4.	1.000	DIRECT.						
5.	REVERSE	$\frac{29 \ 31}{16 \times 15}$						

Type of final drive **HYPOID BEVEL.**
 Type of differential **NON LIMITED SLIP.**
 Final drive ratio **9/37^{4.11}** Alternatives **4.55**
 No. of teeth **9/41**
 Overdrive ratio, if fitted **NOT FITTED.**

WHEELS

Type **STEEL DISC.** Weight **5.2** kg.
 Method of attachment **4 STUDS AND NUTS.**
 Rim diameter **330 mm** m.m. Rim width **89mm** 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 2 PER WHEEL.		Rear 1 PER WHEEL.	
No. of wheel cylinders	42.8		19.08	
Bore of wheel cylinders		m.m.		m.m.
Inside diameter of brake drums		m.m.	178	m.m.
No. of shoes per brake			2	
Outside diameter of brake discs	232	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	56	m.m.	178	m.m.
		m.m.		m.m.
Width	38.1	m.m.	31.8	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	2		2	

STEERING

	RACK AND PINION.	
Type of steering gear		
Turning circle of car	7.3	m., approx.
No. of turns of steering wheel from lock to lock	3 $\frac{3}{4}$	

CAPACITIES AND DIMENSIONS

Fuel tank	41	litres	Sump	4	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	1125	cm.	Lowest point		cm.
Width of windscreen :					
Maximum width		cm.	Minimum width		cm.
*Interior width of car		cm.			
No. of seats	2				
Track: Front	124.5	cm.	Rear	122	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
 675 | kg. |

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:—

4½ J x 13" SECTION STEEL DISC WHEELS.

SUMP SKID SHIELD KIT.

ALTERNATIVE CAMSHAFT. TIMING 18° 58° 58° 18° .
CRANK ROTATIONS TO FULL LIFT 128°
TO ¾ LIFT 76°

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Federation Internationale de l'Automobile.

Amendment to Form of Recognition

Manufacturer STANDARD TRIUMPH INTERNATIONAL LTD.

Model TRIUMPH SPIRIT 4 1962

Add to Optional Equipment

Overdrive. Ratio : .802 to 1 Laycock de Normanville unit.
Operated electrically.

Carburettor : One Dual choke Weber side draught 40DCOE with manifold to suit.



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

Date amendment is valid from November 4th 1963

Form: R.F.I.B.

Hubert Schmidt

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PALL MALL, LONDON, S.W.1.

Federation Internationale de l'Automobile.

Amendment to Form of Recognition

Manufacturer..... Standard-Triumph International Ltd.

Model..... Triumph Spitfire 4.

Alternative gear box ratios

<u>Gear</u>	<u>Ratio</u>	<u>Number of Teeth</u>
1st.	2.932	$\frac{26}{19} \times \frac{30}{14}$
2nd.	1.779	$\frac{26}{19} \times \frac{26}{20}$
3rd.	1.254	$\frac{26}{19} \times \frac{22}{24}$
4th. (Top)	Direct	
Reverse.	2.932	$\frac{26}{19} \times \frac{30}{14}$



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

Date amendment is valid from.....

13 JANV 1964

Form: R.F.I.B.

Manufacturers Reference No. for Application

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F.I.A. Recognition No.

94 1/ET

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Amendment to Form of Recognition

Manufacturer..... Standard Triumph International Ltd.

Model..... Triumph Spitfire 4.

Correction to original Homologation sheet :-

Make of Ignition should read "A.C. or Lucas". Alternative suppliers.
(Original reads "Lucas")



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

Date amendment is valid from

11th April 1964

Form: R.F.I.B.