

Manufacturers Reference No. for Application

1026



F.I.A. Recognition No. 195

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.....TR-4A I.R.S..... Year of Manufacture.....1965 onwards.....

Serial No. of Chassis.....CTC50,001 onwards.....

Engine.....CT 50,001 onwards.....

Type of Coachwork.....2 seater, 2 door, soft or hard top.....

Recognition is valid from.....1st June, 1965..... In category.....Grand Tourisme

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



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



Form: R.F.I.A.

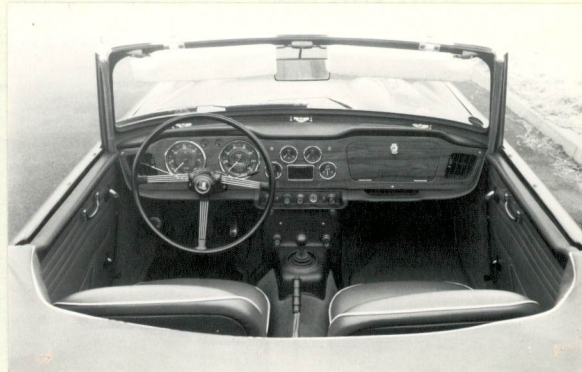
Make Triumph Model TR-4A I.R.S.F.I.A. Recognition No. 195

General description of car:

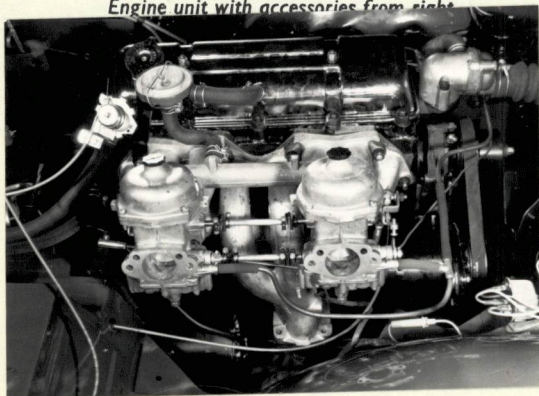
Specify here material/s of chassis/body construction

2 seat sports car having steel body and chassis. Soft top or hard top with optional live axle or independent rear suspension.

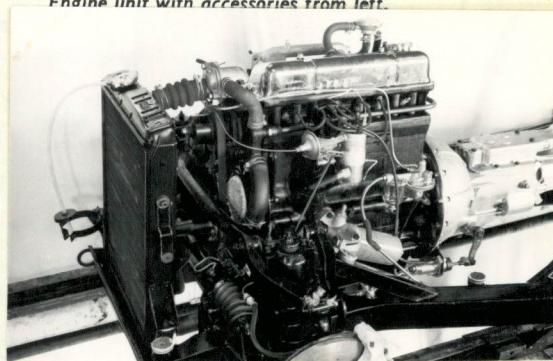
Photographs to be affixed below.



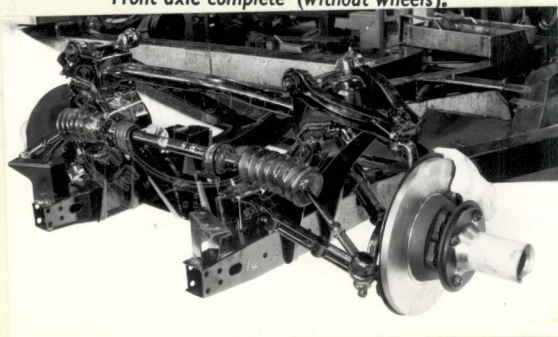
Engine unit with accessories from right



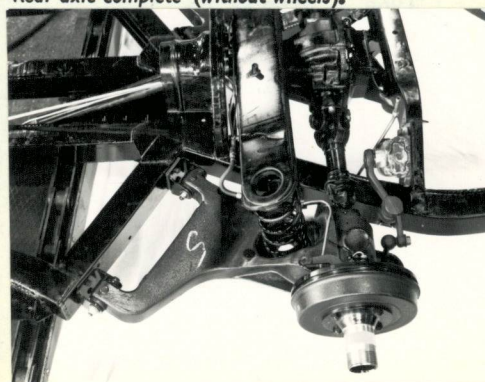
Engine unit with accessories from left



Front axle complete (without wheels).



Rear axle complete (without wheels).



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ENGINE

in line In line Catalogued B.H.P. 109 gross

No. of cylinders 4 in V at R.P.M. 4700

opposed

Cycle four stroke Firing order 1, 3, 4, 2.

Capacity 2138 c.c. Bore 86 m.m. Stroke 92 m.m.

Maximum rebore Resultant capacity c.c.

Material of cylinder block Cast iron Material of sleeves, if fitted Cast nickel chrome

Distance from crankshaft centre line to top face of block at centre line of cylinders 256 m.m.

Material of cylinder head Cast iron Volume of one combustion chamber 59.2 c.c.

Compression ratio 9 : 1

Material of piston Aluminium alloy No. of piston rings 3

Distance from gudgeon pin centre line to highest point of piston crown 50.90 m.m.

Bearings { Crankshaft main bearings: Type D2 Bimetal Dia. 62.97 m.m.
Connecting rod big end: Type Lead indium Dia. 52.98 m.m.

Weights { Flywheel 11.4 kg.
Crankshaft 19 kg.
Connecting rod .94 kg.
Piston with rings } .6 kg.
Gudgeon pin 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 Drive by chain

Diameter of valves: Inlet 36.9 m.m. Exhaust 29.8 m.m.

Diameter of port at valve seat: Inlet 37.3 m.m. Exhaust 30.2 m.m.

Tappet clearance for checking timing: Inlet .381 m.m. Exhaust .381 m.m.

Valves open: Inlet 24° BTDC Exhaust 64° BBDC

Valves close: Inlet 64° ABDC Exhaust 24° ATDC

Maximum valve lift: Inlet 9.8 m.m. Exhaust 9.8 m.m.

Degrees of crankshaft rotation from zero to—

Maximum lift: Inlet 132° Exhaust 132°

$\frac{3}{4}$ Maximum lift: Inlet 80° Exhaust 80°

Valve springs: Inlet Exhaust

Type Coil Coil

No. per valve 2 3

Carburettor: Type Semidowndraught No. fitted 2
(up or down draft, horizontal)

Make Stromberg Model 175 CD

Flange hole diameter 46 m.m. Choke diameter Variable m.m.

Main jet identification No.

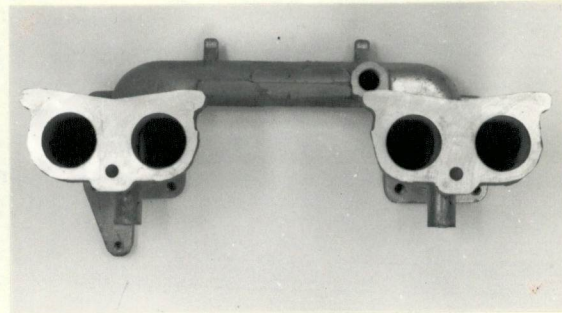
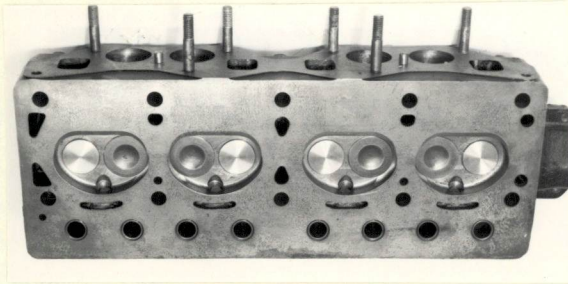
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Air filter: Type Flame trap wire gauze No. fitted 2

Inlet manifold:

Diameter of flange hole at carburettor 46 m.m.

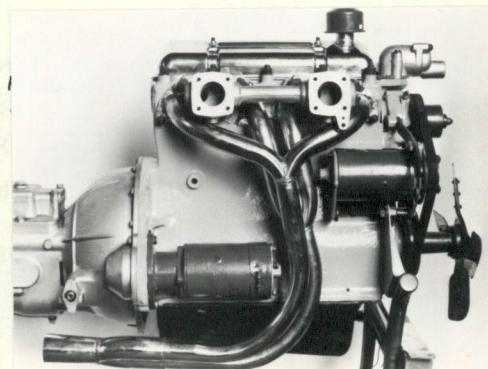
Diameter of flange hole at port 38 m.m.



Exhaust manifold:

Diameter of flange hole at port 37.5 x 33 rectangular m.m.

Diameter of flange hole at connection to silencer inlet pipe 50.8 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 Model 25 D 4

Method of advance and retard Centrifugal and vacuum automatic

Make of ignition coil Lucas Model HA 12

No. of ignition coils 1 Voltage 12

Make of dynamo Lucas Model C 40/1

Voltage of dynamo 12 Maximum output 20 amps.

Make of starter motor Lucas Model M/418/G

Battery: No. fitted 1 Voltage 12 Capacity 57 amp. hour

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

Optional Extra

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TRANSMISSION

Make of clutch Borg and Beck Type Diaphragm
 Diameter of clutch plate 8 $\frac{1}{2}$ " No. of plates 1
 Method of operating clutch Hydraulic
 Make of gearbox Standard Triumph Type Manual synchromesh
 No. of gearbox ratios 4 forward and 1 reverse
 Method of operating gearshift Manual
 Location of gearshift Floor mounted
 Is overdrive fitted? Optional extra
 Method of controlling overdrive, if fitted Electrically operated

	GEARBOX RATIOS		ALTERNATIVE RATIOS					
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1.	3.14	$\frac{35 \times 35}{23 \times 16}$						
2.	2.01	$\frac{35 \times 33}{23 \times 25}$						
3.	1.33	$\frac{35 \times 27}{23 \times 31}$						
4.	1.00	DIRECT						
REVERSE	3.22	$\frac{35 \times 36}{23 \times 17}$						

Type of final drive Hypoid bevel
 Type of differential Non limited slip. Limited slip optional extra.
 Final drive ratio 3.7 Alternatives 4.1 4.3 4.55
 No. of teeth 10/37 10/41 10/43 9/41
 Overdrive ratio, if fitted .821 : 1 Optional extra

WHEELS

Type Steel disc 4J x 15" Weight 7.7 kg.
 Method of attachment 4 stud fixing
 Rim diameter 381 m.m. Rim width 102 m.m.
 Tyre size: Front 5.90 x 15" Rear 5.90 x 15"

BRAKES

Method of operation Hydraulic
 Is servo assistance fitted? Optional extra
 Type of servo, if fitted Vacuum
 No. of hydraulic master cylinders 1 Bore 17.78 m.m.

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	<u>Front</u>	<u>Rear</u>
No. of wheel cylinders	<u>2 per brake</u>	<u>1 per brake</u>
Bore of wheel cylinders	<u>54</u> m.m.	<u>17.78</u> m.m.
Inside diameter of brake drums m.m.	<u>228.6</u> m.m.
No. of shoes per brake
Outside diameter of brake discs	<u>279.4</u> m.m. m.m.
No. of pads per brake	<u>2</u>
Dimensions of brake linings per shoe or pad (if all shoes or pads in each brake are not of same dimensions, specify each)		

	<u>Front</u>	<u>Rear</u>
Length	<u>77 @ Eff Rad of 111</u> m.m.	<u>438.8</u> m.m.
 m.m. m.m.
Width	<u>57</u> m.m.	<u>44.5</u> m.m.
Total area per brake	<u>17000</u> m.m. ²	<u>39000</u> m.m. ²

SUSPENSION

	<u>Front</u>	<u>Rear</u>
Type	<u>Independent</u>	<u>Independent</u>
Type of spring	<u>Coil</u>	<u>Coil</u>
Is stabiliser fitted?	<u>Optional extra</u>	<u>No</u>
Type of shock absorber	<u>Telescopic</u>	<u>Piston type</u>
No. of shock absorbers	<u>2</u>	<u>2</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 $\frac{1}{8}$

CAPACITIES AND DIMENSIONS

Fuel tank 53.5 litres Sump 6.25 litres

Radiator 8.0 litres

Overall length of car 396.0 cm. Overall width of car 146 cm.

Overall height of car, unladen (with hood up, if appropriate) 127 cm.

Distance from floor to top of windscreen :

Highest point 114.3 cm. Lowest point 112.4 cm.

Width of windscreen :

Maximum width 115.6 cm. Minimum width 103.5 cm.

*Interior width of car 123 cm.

No. of seats 2

Track: Front 124.5 cm. Rear 123 cm.

Wheelbase 224 cm. Ground clearance 15.2 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 946 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:—

Alternative carburettor equipment (Appendix J - Article 265)

2 Horizontal 42 DCOE Weber Double choke units

Sump/Radiator skid shield kit

Aluminium sump kit

Optional wheels

60 spoke wire centre lock wheels 4 $\frac{1}{2}$ J x 15

(Front and rear track increase by 2cm when fitted)

Steel belt on 5J x 15 wheels

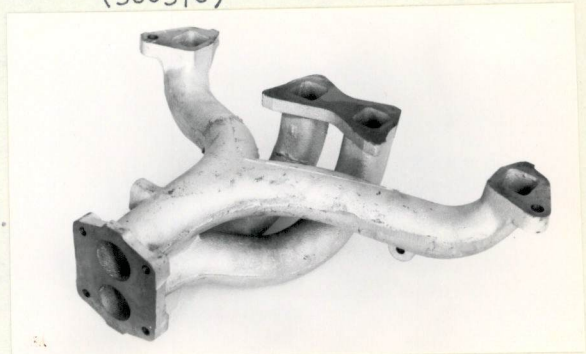
Aluminium alloy belt on 5J x 15 wheels

Alternative exhaust manifold (photograph) Flange hole 33.3 x 28.6 rect.

Silencer hold 2 x 38mm Dia.

(306378)

Alfin brake drums - rear



Alternative engine available

Capacity 1991 cc
Bore 83 mm

} Eng. no. CTA 1 onwards

All other details as page 3.