F.I.A. Recognition No. 528

Group 3 Grand Jouring



IR.S.

ROYAL AUTOMOBILE CLUB

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

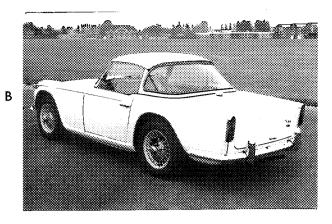
Form of recognition in accordance with appendix J to the International Sporting Code of the FEDERATION INTERNATIONALE DE L'AUTOMOBILE

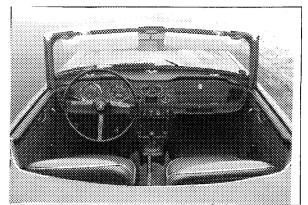
	was
•	Cylinder-capacity2138 cm.31305 in.3
Manufacturer Standard-Triumph Motor Co. Ltd.	Model TR-4A
Serial No. of chassis/body.CTC50, COlonwards	Manufacturer Standard-Triumph Motor Co. Ltd.
	Manufacturer Standard-Triumph Motor Co. Ltd.
Recognition is valid from 1st Februario	List
The manufacturing of the model described in this recog	nition form started onJanuary19.65
and the minimum production of500ic	
this form was reached on18thFebruary19.65	for each of the two
•	for each of the two engines (1000 in all).

Photograph A, 1 view of car from front



F.I.A. Stamp

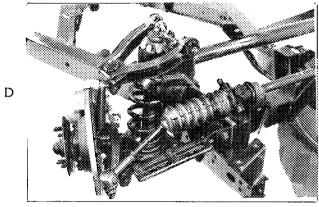


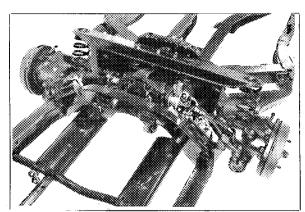


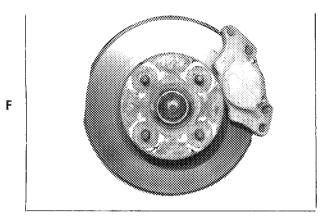
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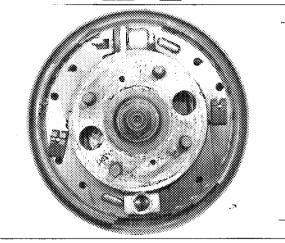
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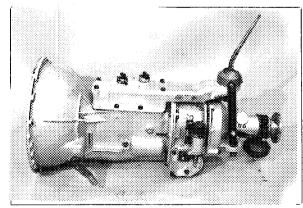
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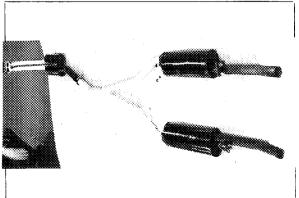


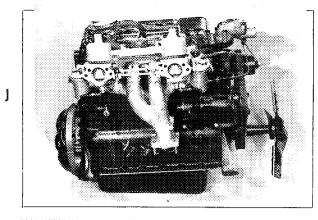


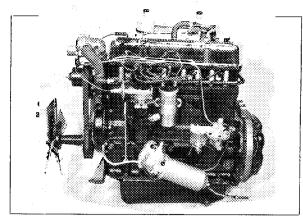




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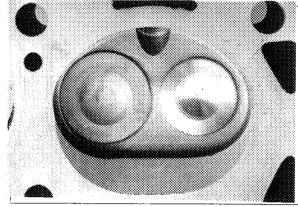




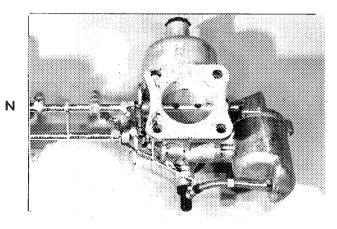


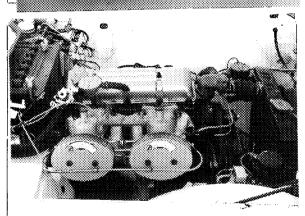
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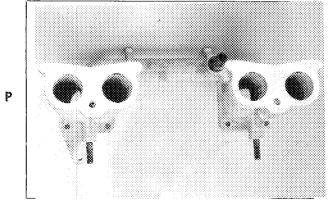
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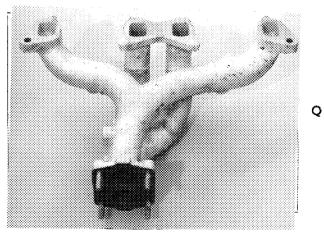










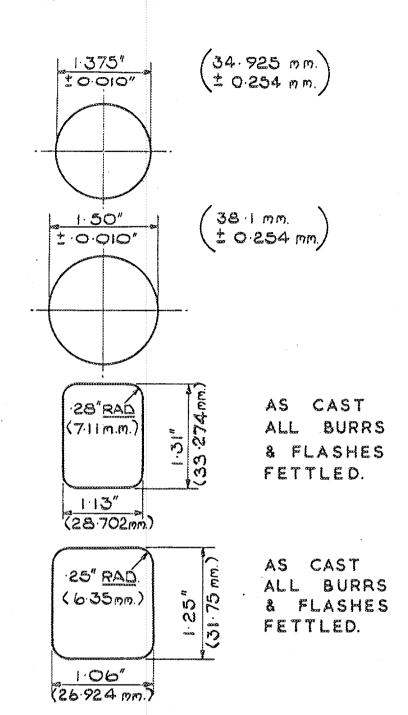


Drawing inlet manifold ports, side of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.

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

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

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



F.I.A. Rec. No.

NOTE 1.

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

CAPACITIES AND DIMENSIONS

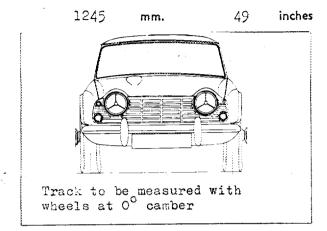
1. Wheelbase

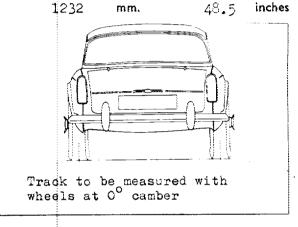
2440 mm.

88 inches

2. Front track

3. Rear track





4. Overall le	ngth of the car			390.2	cm.	153音	inches
5. Overall w	idth of the car			147	cm.	58	inches
6. Overall h	eight of the car	(hood ere	ct)	127	cm.	50	inches
7. Capacity	of fuel tank (reser	ve included)					
		53.5	ltrs.	14.13 ga	II. U.S.	$11\frac{3}{4}$	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:

Hard top	979.3	kg.	21.59 II	bs. 19,277	cwts.
Soft top	969.8		2138	. 19.0 89	

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	itrs.
1 foot/pied	-	30.4794	cm.	- 1	pint (pt)		0.568	itrs.
1 sq. inch/pouce carre		6.452	cm. ²	1	gallon Imp.	(Access)	4.546	itrs.
l cubic inch/pouce cube	****	16.387	cm.3	1	gallon US	*****	3.785	itrs.
I 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/unitaryxconstructionx
- 21. Unitary construction, material(s)
- 22. Separate construction, Material(s) of chassis Steel
- 23. Material(s) of coachwork Steel
- 24. Number of doors 2 Material(s)
- 25. Material(s) of bonnet Steel
- 26. Material(s) of boot lid Steel
- 27. Material(s) of rear-window Glass
- Glass 28. Material(s) of windscreen
- 29. Material(s) of front-door windows Glass
- 30. Material(s) of rear-door windows
- 31. Sliding system of door windows Wind up
- 32. Material(s) of rear-quarter light Glass

ACCESSORIES AND UPHOLSTERY

- 38. Interior heating: yes no (extra)
- 39. Air conditioning: xxxx-no

40. Ventilation : yes — дя

- 4). Front seats, type of seat and upholstery Bucket, PVC
- 42. Weight of front seat(s), complete with supports and rails, out of the car:

leathercloth lbs.

lbs.

- Each seat 43. Rear seats, type of seat and upholstery
- 44. Front bumper, material(s) Steel
- Weight
- 2.495

5.5.

22

- 45. Rear bumper, material(s) Steel
- chrome plated Weight
- 3.402
- kg. kg.
- 7.5 lbs.

- chrome plated

9.98

- overrider 2 lb each 8 lb total .907 kg / - 3.629 kg total

WHEELS

- 50. Type Disc 4J rim
- 51. Weight (per wheel, without tyre)

- 7.711 kg.
- lbs. 17

- 52. Method of attachment 4 studs
- 53. Rim diameter 381 mm.
- 15 ins. 54. Rim width
- 101.6
- mm.
- ins.

STEERING

- 60. Type Rack and pinion
- 61. Servo-assistance:
- MAXX- no
- 62. Number of turns of steering wheel from lock to lock $3\frac{1}{4}$
- 63. In case of servo-assistance

SUSPENSION

70. Front suspension (photograph D), type Independent double wishbone

71. Type of spring Coil

72. Stabiliser (if fitted)

73. Number of shock absorbers | per side | 74. Type | Telescopic

78. Rear suspension (photograph E), type Independent semi-trailing arms

79. Type of spring Coil

80. Stabiliser (if fitted)

81. Number of shock absorbers 1 per side 82. Type Piston

BRAKES (photographs F and G)

90. Method of operation Hydraulic

91. Servo-assistance (if fitted), type

92. Number of hydraulic master cylinders One

72.	reduited of hydraune master cymineers	one				
93.	Number of cylinders per wheel	2 FRO	NT	1	REAR	
94.	Bore of wheel cylinder(s)	mm.	2 inches	17.8	mm. ,7 in	ches
	Drum Brakes					
95.	Inside diameter	mm.	inches	228.6	mm. 9 in	ches
96.	Length of brake linings	mm.	inches	219.5	mm. 8,64 in	ches
97.	Width of brake linings	mm.	inches	44.5	mm. $1\frac{3}{4}$ in	ches
98.	Number of shoes per brake			•	2	
99.	Total area per brake	mm.²	sq. in.	19516	mm.230.25 s	q. in.
	Disc Brakes					
100.	Outside diameter	275.006mm.	10.82 inches		mm. ir	nches
101.	Thickness of disc	12,827 mm.	•505 inches		mm. ir	nches
102.	Length of brake linings	67.818 mm.	2.67 inches		mm. ir	nches
103.	Width of brake linings	52.324 mm.	2.06 inches		mm. ir	nches
104.	Number of pads per brake	. 2				
105.	Total area per brake	7097 mm.	ll sq.in.	l	mm. ² s	q. in.

2,004

50.94 148. Type of crankshaft: integral/.xxxxxx in.

ENGINE	(photographs	land K)	

		•						
130.	Cycle OTTO		131.	Number	of cylinders	4		
132.	Cylinder Arrangement In	line						
133.	Bore 86 mm.	3.386 in.	134.	Stroke	92	mm.	3,622	in.
135.	Capacity per cylinder				534.5	cm.³	36,625	cu. in.
136.	Total cylinder capacity			s	2138	cm.³	130,5	cu. in.
137.	Material(s) of cylinder block	Cast iron	138.	Material(s) of sleeves (if fitted)		igally chill
139.	Cylinder head, material(s)	Cast iron		Number	fitted 1		case nic	kel chrome
140.	Number of inlet ports	4	141.	Number	of exhaust po	rts 4		
142.	Compression ratio 9:1							
143.	Volume of one combustion cha	amber		57.	6 = 1 cc	cm. ³ 3	.515*.06]	cu. in.
144.	Piston, material Aluminiu	m alloy	145.	Number	of rings 3			
146.	Distance from gudgeon pin ce	ntre line to highes	t poi	nt of pisto	n crown		0.004	in

149. Number of crankshaft main bearings

147. Crankshaft: xnoulded/stamped

150. Material of bearing cap Cast iron

151. System of lubrication: stryxsutrapy/oil in sump

quarts U.S. 6.56 11분 pts. 152. Capacity, lubricant

154. Method of engine cooling 153. Oil cooler: yes/no

155. Capacity of cooling system quarts U.S. 6.2 itrs. 11 with heater

in. 36.83 cm. 156. Cooling fan (if fitted) dia. 14분

157 Number of blades of cooling fan

Bearings

2.479 62.97 in. 158. Crankshaft main, type Shell lead indium dia. m.m.

159. Connecting rod big end, type Shell lead indium dia. 52.98 2.086 in. m.m.

Weights

32훏 14.80 kg. lbs. 160. Flywheel (clean) and ring gear

19,84 $43\frac{3}{4}$ lbs. kg. 161. Flywheel with clutch (all turning parts)

163. Connecting rod .92 assembly 2,031 lbs. 162. Crankshaft 21.32 kg. 47

lbs. 164. Piston with rings and pin 1.55 .70

Make	e Triumph Model TR-4A		F.I.A. Rec. No.	***************************************	• • • • • • • • • • • • • • • • • • • •
	FOUR STROKE ENGINES				
170.	Number of camshafts 1	171. Location	Side, base of	ylinders	
	Type of camshaft drive Chain	•	•	•	
	Type of valve operation Pushrod		, '		
	,,				
	INLET (see page 4)*				
180.	Material(s) of inlet manifold Aluminium al	lloy			
	Diameter of valves	v	39.675 mm.	1,562	ins.
	Max. valve lift 98.3 mm387 in.	183. Number	of valve springs 2		
	Type of spring Coil		of valves per cylinder	1	
	Tappet clearance for checking timing (cold)		.381 mm.	0.015	ins.
	Valves open at (with tolerance for tappet clearar	nce indicated)	24° BTDC		
	Valves close at (with tolerance for tappet clearar		64° ABDC		
	Air filter, type Paper element				
	•				
	EXHAUST (see page 4)*				
195.	Material(s) of exhaust manifold Cast iron	n			
	Diameter of valves	-	33.1 mm.	1.303	ins.
197.	Max. valve lift 98.3 mm. 38.7 in.	198. Number	of valve springs 2		
	Type of spring Coil	200. Number	of valves per cylinder	1	•
	Tappet clearance for checking timing (cold)		.381 mm.	0.015	ins.
	Valves open at (with tolerance for tappet clearance	ce indicated)	64° BBDC		
	Valves close at (with tolerance for tappet clearance		24° ATDC		
	•				
	CARBURETION (photograph N)			0	
210.	Number of carburettors fitted 2	211. Type	Horizontaly		
	Make S.U.		HSC		
		1			
	Flange hole diameter of exit port(s) of carburet	_	44,45 mm.	13/4	ins.
	Minimum diameter of venturi/minimum diam., w			-	
	:	•	33 mm.	1,300	ins.
			_	-	
	INJECTION (if fitted)				
ววด	Make of pump	221. Number	of plungers		
	Model or type of pump		mber of injectors		
	Location of injectors		erial and ringularity		
	Minimum diameter of inlet nine		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

One

- 231. No. fitted
- 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

1590 lb.in. at

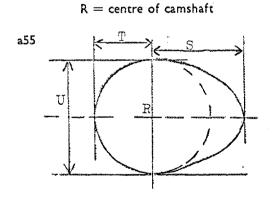
- 236. Generator, type: dynamo/aiternator—number 1 fitted
- 237. Method of drive V belt
- 238. Voltage of generator
- 12 volts
- 239. Battery, number 1
- 240. Location Under bonnet
- 241. Voltage of battery

252. Max. torque

12 volts

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

- 250. Max. engine output 104 bhp (type of horsepower: Net) at 4700 r.p.m.
- 251. Max. r.p.m. 6000 output at that figure 80 bhp
- TO STATE OF STATE OF
- 253. Max. speed of the car 177 km./hour 110 miles/hour



Inlet cam				
S =	27.381	mm.	1,078	inches
T =	20.574	mm.	,81	inches
U =	41.148	mm.	1.62	inches
= t .			•	
Exhaust cam				
S =	27.381	mm.	1.078	inches
T =	20.574	mm.	.81	inches
U =	41.148	mm.	1.62	inches
10				

3000

r.p.m.

Net

DRIVE TRAIN

CLUTCH

260. Type of clutch Diaphragm 261. No. of plates Single

262. Dia. of clutch plates

21.59

8.5 ins.

263. Dia. of linings, inside

14.6

5.75 ins.

outside

21.6

8,5 ins.

264. Method of operating clutch

Hydraulically

4

GEAR BOX (photograph H)

270. Manual type, make Standard-Triumph

Method of operation

Manual

cm.

cm.

cm.

271. No. of gear-box ratios forward

272. Synchronized forward ratios

4

273. Location of gear-shift

Centre floor (transmission tunnel)

2/4. Automatic, make

type

275. No. of forward ratios

276. Location of gear shift

277.	Ma Ratio	anual No. teeth	Auto Ratio	matic No. teeth	Ratio	Alternative ma No. teeth	nual/automati Ratio	c No. teeth
ı	3.14	33/16						
2	2.01	33/25		!				
3 .	1.33	27/31					·	
4	1.00	35/23	·					
5			-					
6								
reverse	3.22	35/17					•	
-	3.22	35/17						•

278. Overdrive, type

Laycock de Normaville Type "A" Electrical operation

279. Forward gears on which overdrive can be selected

2nd 3rd and Top gear

280. Overdrive ratio 0.82:1(22%)

FINAL DRIVE

290. Type of final drive Hypoid bevel

291. Type of differential

Bevel gear

292. Type of limited slip differential (if fitted)

293. Final drive ratio 3.7/4,1/4.3/4.55

Number of teeth (10/37)(10/41)(10/43)(9/41)



FEDERATION INTERNATIONALE DE L'AUTOMOBILE

TRIVAP	H - TRO	4 A	2/66	528
	MARQUE ET MOD	ELE	VALIDITE HOMOLOGATION	FICHE NR.
				3 /2500
	<u> </u>			GROUPE / CLASSE
EXTENSIONS	DEBUT VALIDITE	DESCF	RIPTION	NOTES
				ح
Autres homologat	ions du modèle 52	3 Hudole ovec e	sseu AR ligiole	
Vérifiée le <u>5/10</u>	/35 par /h	visée ce jour le	par	

PAG. A.1