

Press Information On The

CONFIDENTIAL NOT FOR PUBLICATION 1957

INTRODUCTION TO ANOTHER TRIUMPH FIRST

Earls Court 1952 marked the entry of Standard Triumph into the production sports car field and the beginning of what has been probably the most successful range of sports cars in the world. The eye-catching blend of established Triumph components with a new body shown at the 1952 Motor Show was, in greatly modified form, soon to be seen as the TR2 on the roads of Britain, Europe and the Americas. It was Britain's first 100 m.p.h. sports car to be sold at a popular price.

Since July 1953 over 112,000 TRs have been produced and over 90% of these exported, earning for the Company over £50 million in foreign exchange - a remarkable achievement for a single range of cars.

One of the landmarks in the development of the range came in 1955 with the introduction of the TR3 which featured increased comfort and greater power. In October 1956 this model was the <u>first</u> production car in the world to be fitted with disc brakes as standard equipment.

In 1961 the TR4 was introduced, and this marked a departure from the classic line of the earlier models, with Standard-Triumph's first sports car body designed by Giovanni Michelotti. In 1965 - another first - the TR4A was introduced with independent suspension all round, and this Standard-Triumph became the <u>first</u> major British manufacturer to have this feature on its entire range of passenger cars.

The TR series has an unequalled record in motoring competition, having won awards all over the world in almost every type of motoring event. It is the only marque to have entered three cars and finished three cars, three years in succession in the gruelling Le Mans 24 Hour Race, and the record of five Coupes des Alpes in one Alpine Rally won by TRs has yet to be beaten.

Now, with the introduction of the TR5 PI the Company maintains its eminent position on the British sports car market - the TR5 is the first British production car to have fuel injection as standard equipment. This equipment is the result of many years research and development in co-operation with the Joseph Lucas Company who have been responsible for the fuel injection equipment fitted to the majority of the world's Grand Prix racing cars.

The TR5 PI continues the TR tradition. Fitted with a 2500 c.c. version of Triumph's successful 2 litre six cylinder engine, it combines outstanding performance plus the smoothness and flexibility associated with its sister saloon the Triumph 2000.

A greater degree of passenger comfort has also been provided by extensive restyling of the cars interior, and with a top speed of 125 m.p.h. it is the fastest production car ever marketed by the Company.

The TR5 will be available in all markets except the U.S.A. where a special version designed to meet the requirements of anti pollution legislation will be available in 1968.

The Company is confident that this new technical lead will vastly improve its penetration of overseas sports car markets, and continue its predecessors' record as a top contributor to Great Britain's export drive.

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TRIUMPH TR5 FEATURE BY FEATURE

Chassis and Bodywork

The attractive TR4A body line is retained with detailed alterations to the interior and exterior trim.

Revised stainless steel side flashes, a new radiator grille, indicator repeater lights, reversing lights, TR5 badges and "custom" wheel trims differentiate it from earlier models externally.

The interior has been extensively reworked. The seats are now covered with ventilated "Ambla" material, as in the 1300 and 2000 models, and new door trims with revised handles and anti-burst locks are incorporated.

The non-reflective wooden dash panel has rev. counter, speedometer, ammeter, fuel, oil pressure and temperature gauges, all with anti-glare bezels. There are warning lights for oil pressure, ignition, high beam and indicators. Blue lights illuminate the instruments and are controlled by a rheostat on the dash. Rocker switches operate the two-speed wipers and washer. Knobs operate choke, heater, fan and air distribution.

Lights are controlled by a lever on the column and a foot operated dip-switch.

A new hood is fitted. This incorporates a rigid channel section above the side window so that a positive weather seal is maintained at high speed. New catches attach the front of the hood to the screen top and the levers fold away in the locked position.

The heater system incorporates foot level vents as well as new face level vents for driver and passenger which are adjustable for flow and direction. The steering column is designed to collapse in the event of an accident and the steering wheel is padded to give maximum crash protection. The dash panel lip is also padded.

The chassis is generally similar to that of the TR4A though detail modifications have been made to accept the additional length of the 6-cylinder engine.

The suspension is independent all-round, by wishbone and coil springs at the front and trailing arms and coil springs at the rear as on the TR4A, but the rear suspension has been stiffened up by about 25% over the TR4A, to give even better roadholding.

2000

Engine and Transmission

The TR5 PI is powered by an enlarged version of the familiar 6-cylinder 2-litre engine which powers the Triumph 2000, Vitesse 2-litre and GT6. The bore of the engine remains the same at 74.7 mm. but the stroke is lengthened by 19 mm. to give a capacity of 2498 c.c. The most important feature of the new engine is that it is fitted with petrol injection equipment. It is the first British production engine to be so fitted, and the system chosen is that produced by Joseph Lucas. The advantages of this system are that the fuel is metered in exact quantities for all operating conditions directly into each inlet manifold and this gives smoother running, particularly at low speeds, better pick-up and greater torque. The removal of the carburettor choke and hot spot on the inlet manifold permit a larger air change to the engine resulting in greatly increased power output.

The injection system consists of a filter, an electric fuel pump supplying petrol at 100 lbs. sq. in. to a rotor metering unit which is driven at half engine speed. Fuel quantity is determined by a mixture control unit mounted integrally with the metering unit which is actuated by a manifold pressure device. Excess fuel is returned to supply from the filter and the metering unit. From the metering unit the fuel goes

to the injectors which are mounted in the separate inlet manifolds on the engine side of the throttle butterflies.

The engine develops 150 b.h.p. at 5,500 r.p.m. and 1970 lbs.in.

torque at 3,500 r.p.m. These are increases of 46 b.h.p. or 45%

and 380 lbs.in. torque or 23%. The increase in torque is most noticeable

when the car is pulling in top gear and this in conjunction with the 6
cylinder smoothness gives a flexible effortless performance.

A four speed all synchromesh gear box is fitted with overdrive available as optional equipment. The rear axle and half shafts have been strengthened to transmit additional power of the $2\frac{1}{2}$ litre engine.

Performance

The TR5 outperforms its predecessor all the way through the speed range. The standing quarter mile through the gears is achieved in a time of 16½ seconds, 1.2 seconds faster than the TR4A and 0-50 m.p.h. in 6.5 secs. 1.4 secs. faster. 40-60 m.p.h. in 7 secs. is an improvement of 1.2 secs and this is achieved with considerable less 'fuss' and noise from the engine compartment. The top speed is 125 m.p.h. (though this may be lower in some markets where local regulations dictate modifications for noise prevention.) It is a first class high speed

touring car and at 100 m.p.h. in overdrive top gear the engine is running at a mere 3860 r.p.m.

Brakes

Larger 10-7/8" dia. disc brakes are fitted to the front wheels
and leading and trailing shoe drum brakes to the rear. They are powerassisted and a fail-safe system is incorporated. There are separate
systems for front and rear operated from tandem master cylinders,
which means that in the event of failure of one system, braking is
assured by the second.

Colours

Sec. 1		
	Body	Trim
	White	Midnight Blue or Black
8 4	Wedgwood	Midnight Blue
	Conifer	Black
	Signal Red	Light Tan or Black
	Royal Blue	Midnight Blue or Black
	Valencia	Light Tan or Black
16	Jasmine	Light Tan or Black

Prices

	List		P.T.	Total
Soft-top	£985	60	£227. 8.11d.	£1212. 8. 11d.
Hard-top	£1020	- 10	£235. 9. 4d.	£1255, 9, 4d,

SPECIFICATION OF THE TR5

Brief Description

Two-seater convertible Sports Car. All weather equipment. Steel body rust proofed. Detachable windscreen. Doors hinged at front. Front and rear wings are bolted-on detachable type.

Engine

Number of cylinders	 6	
Bore of cylinders	 74.7 mm,	2.94 in.
Stroke of crank	 95 mm.	3.74 in.
Capacity	 2498 c.c.	152 cu.in.
R.A.C. rating	 20.75 h.p.	

General Dimensions

Wheelbase		7' 4"	2,240 mm.
Track	12		88.4
Front - Disc Wheels Wire Wheels		4' 1 ¹ / ₄ " 4' 1 ³ / ₄ "	1251 mm. 1263 mm.
Rear - Disc Wheels Wire Wheels		4' 0 ³ '' 4' 1 ¹ ''	1239 mm. 1251 mm.
Ground Clearance		6 in.	152 mm.
Turning Circle (between ker	rbs)	33 ft.	10.1 metres

Overall Dimensions

٠.				
	Length	 12'	9-5/8"	3902 mm.
	Width	 4'	10"	1470 mm.
	Height (unladen)			
	Hood erect	 41	2"	1270 mm.
	Top of screen	 31	10"	1170 mm.
	Hood folded and	100		
	screen removed	 31	4"	1020 mm.

Weight (Touring Trim)

Dry (excluding extra-			
equipment) .		194 cwt.	983 kg.
Complete (including tools,		OF4	0.553
fuel, oil and water) .		201 cwt.	1034 kg.
Gross vehicle weight (max.)	24½ cwt.	1256 kg.

Capacities

300	IMP.		U.S.A
Fuel Tank	114 galls.	51 litres	13.5 galls.
	8 pints	4.52 litres	9.64 pints
Gearbox - from dry	2 pints	1,13 litres	2.4 pints
Rear Axle - from dry	$1\frac{1}{2}$ pints	0.85 litres	1.8 pints
Cooling System - with heater	11 pints	6.2 litres	13.2 pints

Tyre Size

... Dunlop SP41 165 HR 15

Engine Speeds

	Top	3rd.	2nd.	1st.	Rev.
Engine speed at 10 m.p.h.	471	626	947	1479	1516
Engine speed at 10 k.p.h.	296	393	595	940	952

Road speed at 1000 r.p.m. in top gear - 21,21 m.p.h.

Road speed at 2500 ft/min. piston speed in top gear - 85 m.p.h.

Maximum Recommended Speeds in Intermediate Gears

Gear	M.P.H.	K,P,H,		
3rd	88	142		
2nd	58	93		
1st	37	60		

Performance Data

150 b.h.p. @ 5,500 r.p.m. 1970 lb.ins. @ 3,500 r.p.m.

Acceleration

	Speed Range		Time (sec	s)
	30 - 50 m.p.h.		7.0	
Top	40 - 60 m.p.h.		7.0	
Gear	50 - 70 m.p.h.		7.5	
	60 - 80 m.p.h.		8.0	
Through	0 - 30 m.p.h.		2.8	
Gears	0 - 50 m.p.h.		6.5	
	0 - 60 m.p.h.		9.0	
	50 - 80 k.p.h.		7.0	
Top	70 - 100 k.p.h.		7.0	
Gear	90 - 120 k.p.h.	90	7.5	
	110 - 140 k.p.h.		8.2	
		100		
Through	0 - 40 k.p.h.		2.2	
Gears	0 - 80 k.p.h.		6.5	
	0 - 100 k.p.h.	*	9.3	
Standing ½ mile	•••		$16\frac{1}{2}$ secs.	
Top Speed			125 m.p.h.	

This figure may be lower in some export markets where local noise regulations dictate a drop in engine power.

Engine

482-1						
Number of cylinders		6				
Bore of cylinders		74.7 mm.	2.94 ins.			
Piston area		263 sq. cm.	40.7 sq.ins.			
Stroke of crank		95 mm.	3.74 in.			
Capacity		2498 cc.	152 cu.ins.			
Firing Order		1,5,3,6,2,4,				
Compression Ratio		9.5:1				
Cylinder block		Chrome cast	iron.			
Cylinder head		Chrome cast	iron.			
Pistons		Aluminium all	loy.			
Connecting rods	•••	60 ton steel with floating gudgeon pins.				
Crankshaft	• • •		ruction with integral ts. Four main bearings,			
Bearings		Aluminium tir	(1) - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			
Valves	• • • •	Push rod open	ated overhead valves, exhaust valves,			
Camshaft	•••	Five bearings chain driven.	, hyposine cams,			
Cooling System		'No loss' syst	em.			
Circulation		Pump driven l				
			ally controlled flow.			
Fan			5" dia. polypropylene.			
Fuel System			Electric lift pump.			
		Lucas fuel inj	(B) TO TO TO THE SOUTH OF A STOCK OF THE SOUTH OF THE SOU			
Mani folds		Three twin in	let manifolds with six			
		throttle valves	s.			
		Twin outlet ex	chaust manifold.			
Air Cleaner		Replaceable p	aper element.			
Lubrication:			AT-12			
Oil Pump		High capacity	, submerged, eccentric			
		lobe type. Fee	ed to main bearings,			
7			all camshaft bearings			
		under pressur	. B.			
Oil Filter			with replaceable			
		element.	30 g			
Ignition	• • •	Coil, automat vacuum advar	ic centrifugal and ace.			
Generator		Lucas type 15	A.C. alternator.			
		Vee belt drive				

Engine Mounting Flexible rubber mountings for engine and gearbox unit. Exhaust System Twin pipe system flexibly mounted and insulated against noise transmission to the body. Crankcase Closed circuit breathing system through one way valve to inlet manifold. Flywheel Cast iron with hardened steel starter gear ring. Transmission Clutch Diaphragm type 81" dia. Hydraulically operated. Gearbox Four forward ratios and reverse. Gears Synchromesh on all forward ratios. 3rd. Тор 2nd. 1st Rev. Ratios 1.00 1.33 2.01 3.14 3.22 Overall Ratios 3.45 4.59 6.94 10.83 11.11 Propellor Shaft All metal shaft, needle roller bearings. Short length to avoid whip and simplify frame construction. Rear Axle : Final drive unit rubber mounted. Drive Hypoid bevel gears. Taper roller bearings. Ratio 3.45:1 Suspension Front Low periodicity independent system. Patented bottom bush and top ball joint wheel swivels. Coil springs controlled by telescopic dampers. Taper roller hub bearings. Rear Semi-trailing arm independent suspension with coil springs controlled by piston dampers. Mounted on frame through rubber bushed pivots and with

rubber insulation of spring.

Wheels

... Steel disc type with simulated magnesium trims - 4½J rim.

Brakes

... Caliper disc brakes on front wheels; total swept area 233 sq.in. 10-7/8" dia.

Drum brakes, 9 x 1¾" of leading and trailing shoe type on rear wheels; total swept area 99 sq.in.

Pedal operates through direct acting servo and tandem master cylinder to front and rear brakes independently. Pressure differential valve and warning light fitted to left hand drive models only.

Frame

Rigid structure. Channel steel pressings from box section side members braced by a cruciform member. Complete frame rust proofed.

Steering

.. Rack and pinion type unit. 15"
diameter (381 mm) 3 spoke type
steering wheel with leather covered
rim, and spokes and boss padded.
3½ turns lock to lock. Energy absorbing
steering control system.

Battery

... 12 volt, 57 amp.hr. located under bonnet.

Body Specification

Type ... 2 seater convertible sports or 2 seater hard top with detachable roof panel. All weather equipment. Steel body. Detachable windscreen. Zone toughened safety glass. Safety styled window regulator handles and internal door release control handles. Doors hinged at front. Full anti-burst locks. Front and rear wings bolted on detachable type.

seating

Instruments

Controls

Upholstery ... P. V. C. leathercloth, 'Ambla' ventilated seat facings.

... Two bucket type seats with deep shaped squab.
Adjustable fore and aft. Both seats pivot forward
for access to rear, and are retained by selflocking quick release catches.

5 in, tachometer with 5 in, speedometer with trip, positioned in front of driver, Separate instruments for ammeter, fuel, water temperature and oil pressure, Ignition and high beam warning lights, Direction indicator warning light. Oil pressure warning light. Brake failure warning light and hazard warning light on left hand models only. Recessed blue illuminated instruments with non-glare bezels.

Combined ignition lock, starter control with third position for accessories. Knobs for choke, heater, fan and air distribution. Rocker switches for windscreen wipers, windscreen washers and hazard warning lights. Rheostat switch for variable intensity of instrument illumination. Three position lighting control lever incorporating daylight flasher on steering column for off, side and head lamps. Foot-operated dipswitch. Direction indicators operated by lever on steering column.

Luggage Accommodation

Enclosed glove locker with lock, fitted in facia panel on passenger side. Luggage space behind seats and in boot. Spare wheel housed below boot floor.

Petrol Tank

... Mounted between rear wheel arches, with petrol filler cap centrally situated in deck panel.

Locks

Full anti-burst locks. Both doors lock externally by ignition key. One piece bonnet arranged with pull type lock under left hand side of dash with an independent safety catch incorporated. Lockable handle for boot lid.

GENERAL EQUIPMENT

Interior

Padded, swivelling sun visors with vanity mirror on passenger side. Dull wood finish facia with padded surround incorporating a shielded control panel for occupant safety.. Ashtray in top of facia. Door waist rails padded. Carpet with thick felt underlay. Safety belts.

Exterior

Headlamps to suit market requirements. Front parking lights mounted outboard of headlamps. Front direction indicators mounted below headlamps. Direction indicator repeaters on wings. Side marker lamps on rear wings. Brake lights and reflectors mounted integrally with parking lamps and direction indicators at rear. Two reversing lamps. Number plate illumination lamps mounted on overriders. Windscreen washers. Exterior mirror mounted on driver's door, adjustable from driving seat. Twin windtone horns in concealed mounting.

The fabric top in P.V.C. leathercloth with black interior embodies a large backlight together with quarter lights and is fitted with safety styled header catches. Bonnet is hinged at front and provided with prop.

One piece bumpers front and rear, with chromium plated overriders. Self parking twin two-speed electric screen wipers. Scuttle ventilator flap. Spare wheel and tyre. Wheelbrace, jack and tool roll.

Heating and Ventilation

Heater with two speed blower, provides air of the required temperature to the interior of car. It incorporates windscreen demister and defroster. Face level ventilation provided through two directional fresh air vents in facia and foot level ventilation provided through two vents under facia.

Interior Dimensions

			Ins.	Mm.
Seat width (each)			19	483
Seating width (between doors)			481	1232
Seat height (from floor)			8 3 4	222
Seat depth (fore and aft)			18	457
Head room (from seat cushion	1)		34	864
Steering wheel clearance from	n			
seat cushion			5.5	140
Steering wheel clearance from	n			
seat squab	Min.		15	381
	Max.		19	483
Squab to clutch pedal	Min.		36	914
	Max.		40	1016
Width of door opening at wais	t		28	720
Interior width (between sills)			$48\frac{3}{4}$	1230
Maximum interior height			401	1030
Luggage space (behind seats)	E .		10397	
Length	Min.		15	380
	Max.		19	483
Width (between	en rear			
wheel a	arches)		33-3/8	845
Height - fron	t (floor		15	
to top o	of front sq	uabs)	21	535
		7		
Luggage boot			9	
Height	Min.		$7\frac{1}{2}$	190
	Max.		$13\frac{1}{2}$	340
Depth (fore and aft)	Max.		20	510
Width	Max.		$46\frac{1}{2}$	1180
Boot opening width	Max.		40	1015
	Min.		381/2	980
Capacity	5.6	eu.ft.	200	.16 cu.m.

OPTIONAL EXTRAS

Lavenck de Normanville overdrive on 2nd. 3rd. and top gears, electrically operated, ratio .82.

This gives overall ratios and engine speed as follows:

	O/D Top	Тор	O/D 3rd.	3rd.	O/D 2nd.	2nd.	1st.	
Overall Ratios	2,83	3.45	3.76	4.59	5.69	6.94	10.83	
Pogino speeds:						1		
10 m.p.h.	386	471	514	626	777	947	1479	
10 k,p.h.	240	296	319	393	482	595	940	

Oil capacity of gearbox and overdrive unit from dry:

3½ IMP. pts. 2.0 litres. 4.2 U.S.pts.

Hood for use with roof panel removed (hard top only)

Conneau cover (fabric)

Short front undershield

Wire wheels and hubs - centre locking nut type (with tubed tyres only)

Radio - Agent fitment

Wichelin 165 SR-15 XAS tyres

Goodyear 185 HR-15 G800 red banded tyres

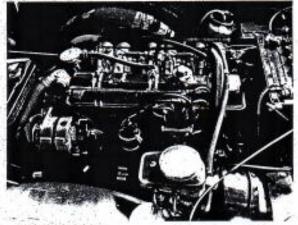
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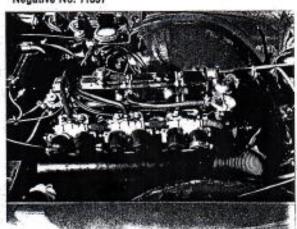
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PHOTOGRAPH ORDER FORM

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