CAMS

5TH CATEGORY - HISTORIC RACING

GROUP Na

APPROVED VEHICLE SPECIFICATION

This form details the approved specification of individual vehicle models in the Na production saloon car group. To be issued with an Historic log book, cars need to comply with these specifications, the physical appearance sl in the illustrations and the general historic rules as detailed in the current CAMS manual.

Make of car:

AUSTIN

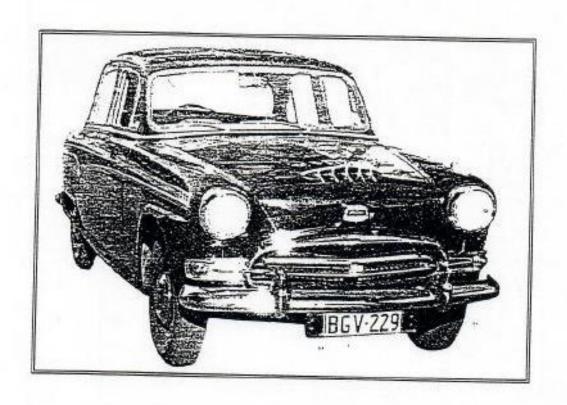
Model:

A90, A95, A105

Period of original manufacture: A90 1954-56, A95 1956-59, A105 1956-60

CAMS Historic group:

Date of issue of this Document: 2/05/95



SECTION 1 - CHASSIS

1.1 CHASSIS FRAME

Description:

UNITARY CONSTRUCTION

to:

Manufacturer:

AUSTIN

Period of manufacture:

1954-60

Chassis nos. from:

Chassis no. location : FIREWALL Material:

MILD STEEL

COMMENTS:

NIL

1.2 FRONT SUSPENSION

Description:

IFS TWIN WISHBONES

Spring medium:

COIL

Damper type :

GIRLINGLEVER

Adjustable:

N/A

Anti-sway bar :

NO

Adjustable

N/A

Suspension adjustable NO

Method:

NA

COMMENTS:

ANTI SWAY BAR ALLOWED

RIDE HEIGHT AND SPRING RATE FREE

1.3 REAR SUSPENSION

Description:

LIVE AXLE

Spring medium :

SEMI ELLIPTIC LEAF

Damper type :

GIRLING LEVER

Adjustable:

NO

Anti-sway bar :

Adjustable :

NO

Suspension adjustable No

YES

Method:

NIA

COMMENTS:

RIDE HEIGHT AND SPRING RATE FREE

1.4 STEERING

Type:

WORM & PEG

Make: BMC

COMMENTS:

NIL

1.5 BRAKES

Type:

Front DRUM

Rear DRUM

Dimensions:

11"

11"

Material of drum:

CAST IRON

No. cyls per wheel:

2 (2LS)

CAST IRON 1(SINGLE LS)

Actuation:

HYDRAULIC

HYDRAULIC

Caliper; Make, Material, Type:

N/A

N/A

Master cyl make;

GIRLING

Type: SINGLE

Adjustable bias:

NO

Servo fitted:

NO

COMMENTS:

TANDEM WCYL ALLOWED

SERVO ALLOWED

SECTION 2 - ENGINE

2.1 ENGINE

Make:

AUSTIN

Model:

A90, A95, A105

mm

mm

GC

No. cylinders:

Configuration:

INLINE

FOUR stroke.

Cylinder block, materia CAST IRON

Bore : original :

79.4

Max, allowed:

80.9

mm

Stroke; original: Capacity; original;

88.9 2639

Max allowed: -Max. allowed :

88.9 2743

mm CC

Cooling method:

WATER

dentifying marks:

COMMENTS:

NIL

2.2 CYLINDER HEAD

Make:

AUSTIN

 No. valves per cyl: No of ports, total:

2

Inlet:

Exhaust 1

No camshafts:

12 1

Inlet: Location:

BLOCK

Exhaust 6 Drive: CHAIN

Valve actuation : OHV

Spark plugs per cyl.;

Identifying marks:

COMMENTS:

NIL

1

2.3 LUBRICATION

Method:

WET SUMP

Oil cooler standard :

NO

Location:

NIA

COMMENTS:

OIL COOLER ALLOWED

2.4 IGNITION SYSTEM

Type:

Make:

LUCAS

COMMENTS:

DISTRIBUTER AND COIL

NIL

2.5 FUEL SYSTEM

Carburettor : Make :

A90, A95 : ZENITH

Model:

No.:

Size:

A105: SU

Model: H4

No.:

Fuel injection; Make: NO Supercharged:

NO

Type: N/A

N/A

Make:

Type: Drive:

COMMENTS:

N/A NA 3 X SU CARBURETTORS ALLOWED THROAT SIZE UNRESTRICTED

SECTION 3-TRANSMISSION

3.1 CLUTCH

Make:

BORG AND BECK Type: A6-G

Dia. :

No. of plates:

Actuation:

COMMENTS:

HYDRAULIC NIL

3.2 TRANSMISSION

Make:

AUSTIN

Model: BMC C SERIES

Case material:

C.IRON

Gearchange Type:

COLUMN CHANGE

Gearbox location: Identifying marks:

No. forward speeds:

COMMENTS:

BEHIND ENGINE

RATIOS FREE & OVERDRIVE ALLOWED

3.3 FINAL DRIVE

Make:

AUSTIN

Model: BMC C SERIES

Wheel drive method :

REAR

Ratio:

Differential:

FREE

Model: BMC C SERIES

COMMENTS:

RATIOS FREE

3.4 TRANSMISSION SHAFTS (EXPOSED)

No.

Location:

TAILSHAFT

Description:

TUBULAR

COMMENTS

NIL

3.5 WHEELS AND TYRES

Wheel, type:

DISC

Material:

Fixture method:

BOLTON

No. studs :

STEEL

Wheel dia. & rim width; original;

Front

Allowed:

Allowed:

15 x 4.5" 15 x 5"

15 x 4.5"

Tyre section ;

640 x 15

15 x 5"

original:

205 x 15

640 x 15 205 x 15

Rear

Aspect ratio, minimum: 65%

COMMENTS:

NIL

SECTION 4-GENERAL

4.1 FUEL SYSTEM

Tank location:

FRONT OF BOOT

Capacity, litres:

Fuel pump; type :

MECHANICAL

Make:

COMMENTS: NIL

4.2 ELECTRICAL SYSTEM

Voltage:

12

Battery; location :

ENGINE BAY

COMMENTS:

NIL

4.3 BODYWORK

Type:

SALOON

Material:

STEEL

No. of seats: COMMENTS:

NIL

No. doors :

4.4 DIMENSIONS

Track; front;

1308

mm

kg

Track, rear :

1301

mm

Wheelbase: Dry weight:

2665 mm

Overall length:

4572

mm

COMMENTS:

1395

NIL

4.5 SAFETY EQUIPMENT

Fire Extinguisher:

REQUIRED

Seat belt :

REQUIRED

Roll bar :

REQUIRED

Electrical cut off switch :

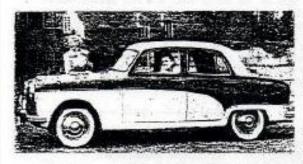
RECOMMENDED

Safety fuel tank: COMMENTS:

RECOMMENDED NIL

AEC 2/5/95

AUSTIN'S NEW, FAST A105



USTIN have joined the growing list of British car-makers who won't wait for London's October motor show to launch a new model.

It's true that, in their case, the car is not an entirely

but a high-performance luxury version of the existing A90 Westmisster.

Ausin sprang the news in May, but warned home buyers that most of the production would be earmarked

for export for the fint few months.

The A105 can hit at least 95 m.p.h. as against the top speed of 89 Modern Motor's tester obtained from the A90. Mechanical charges to the six-cylinder o.h.v. engine layout include:

- Compression ratio of 8.25 to 1 (instead of 7.3 to 1), obtained by using pistons with flat tops instead of the standard concave crowns;
- · Twin SU H4 carburettors feeding into a circular induction callery cast integral with the head;
- Modified exhaust system with a special muffler designed to reduce back-pressure;

• Dual valve springs to prevent valve bounce.

These changes have boosted the engine's output to
102 b.l.p. at 4000 rp.m., instead of 85 at 4000. To
allow full use of the extra horses without tining the
engine on long runs. a Boop-Warner overdrive unit is fitted as standard, with a repr-axie ratio of 4.1 to 1 (the A90's ratio is 3.91 to 1). Gear ratios are: 13.57, 9.10, 3.89 (o.d. third ±.12) and ±.10 to 1 (e.d. top 1.87).

Roadroiding has been improved to match the extra broance by reducing the overall height of the car Smally more than one inch. This was done by fitting shorter coil springs to the front suspension and altering the camber of the sent-elliptic rear springs.

Standard equipment includes twin for lamps, wing mirrors, hooded headlights, humper-bar overriders, vacuum-operated screen-washers and a heater. The wheels have scriniest-steel discrelored to easier brake cooling and are that with waterwall tubeless tyres. Finish offers a variety of two-tones.

Inside, front-seat width has been increased by two inches and there's an inch more leg-room for rear-seat passeneers. The back of the split front seat houses two ashtrays. The dash is padded along the top and they indicate lights identify the main central knobs as night. Uphoisters is leather ever foam lates.

Uphoistery is leather ever foam lates.

The £103 owes many of its features to lessons learns during meet and rallies its release tame at a time when motoring lans were talking about the performance of a hot A90 in the hands of Ken Wharton, who got a second place assists strong apposition in a closed-car nice at Silversione. The car's bottle price suggests it will cost about £130 more than the A90 in Australia.

WANTED. Holden E. Hissensplutter, Jnr. ridigen E. rissensplutter, Jar.

Free cares, bard—and fast 10 prepred cares, bard—and fast 20 prepred cares, bard—and fast 20 prepred cares, bard—and fast 20 prepred will sond Carpool, 250 Lto
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you 24 & Respice.

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MAKE YEAR H P T AND COMPANY OF THE PART EASY

MODERN MOTOR - August 1956

windows, when they acted as quite powerful extractors. For a car in this price category the rear compartment is very well appointed. The seat is comfortable, with room for three if the central folding armrest is russed. The cushion has a well-padded roll on its forward edge, and the back rest, piaced at a comfortable angle, gives good support. A passenger 6it 2in in height found that he was seated comfortably, with adequate leg room. The whole of the floor is covered in thick carpet; the door trim is nearly carried out. There is a wide shelf behind the seat. The rear door locks have additional safety catches to prevent them being opened by small children. An asittray is placed on the back of each front seat, but of such shape as to be of little use. A single ashtray is fitted centrally in the facts panel.

A feature of the A.105 is the excellent luggage locker. The lid opens wide and is self-supporting; there is a far

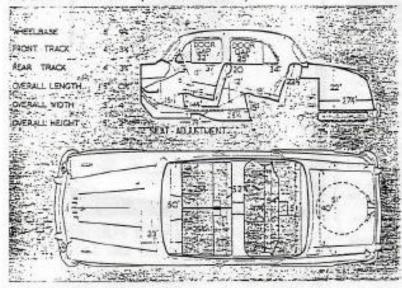
floor, and the edge is so shallow that it is not difficult to lift luggage over. The petrol tank is separated from the locker by a hardboard panel, and above the tank is a shelf to which is clipped the tool kit.

Benesth the bonnet the amiliaries of the engine are reasonably accessible, except that the oil level dipstick is rather awkward to reach. According to the instruction book there are 19 lubrication points requiring attention every

1.000 miles.

To sum up, the Austin A.105 is a very likeable, sturdy car. It has a good carrying capacity and, at the same time, is pleasingly compact in difficult traffic conditions where a large car can be an embarrassment. It covers long dis-tances in an easy way, and the automatic transmission relieves the driver of a considerable amount of work. In addition to its merits in the mad conditions of its native country, it should appeal to the overseas buyer,

AUSTIN A.105 (AUTOMATIC)



Measurements in these \$\forall in to Ift scale body diagrams are taken with the driving seat in the central position of fire and aft adjustment and with the seat cashions uncompressed

PERFORMANCE-

Reversi Speed R MLP.H. 10-30 20-40 30-50 40-60 50-70 40-80		7.35. ive Ra 4.9 5.5 7.9 9.5 12.4 17.1		Low R 4.5 5.3	
	MLP.HL 50 60 70 80			13.5 13.5 18.3 26.1 34.5	
SPEEDS Gear Tep	(=	ALIES .	M.P.E (normal and man 94.5	i (no c.) and 15 15 64	P.H. stral max.) (1.4 (4.5 —92 —72

ACCELERATION: from constant speeds. ear Batios: Top (direct) 3.91 to 1; Inter-mediate (2.) to 5.6% Low 19.4 to 9.03 TRACTIVE RESISTANCE: 40 lb per ton at 10 M.P.H. TRACTIVE EFFORT: Equivalent Gudient

Pull (lb per ton) 107.5 Top . . . 191,5 Intermediate . 387.5 BRAKES Efficiency 21.0 per cent 43.5 per cent 60.5 per cent 72.7 per cent Fedal Pressure (1b) 24 50 100

FUEL CONSUMPTION: 20.3 m.p.g. overall for 620 miles (13.6 litres per 100 km). Approximate normal range 17.5-27.5 m.p.g. (16.1-10.3 licres per 100 km). Fuel, Premium grade.

WEATHER: Dry, sunny, slight breeze. Air temperature 70 deg F. Acceleration figures are the means of several runs in opposer directions.
Tractive effort and resistance obsained by
Tapicy meter.
Model described is The Associated 12 October,
1950.

True speed:

DATA

PRICE (baic), with de luxe saloon body, C\$71.

British purchase tax £436. Total (in Greet Brimin), £1,307. Extras: Radio £39 7s 6d.

ENGINE: Capacity: 2,639 c.c. (16) cu in). Number of cylinders: 6. Bere and stroke: 79.4 × 69 mm (3.125 × 3.5) Valve gear: Overhead, pushrods and rocket. Compression ratio: 8.25 to 1. B.H.P.: 102 at 4.600 r.p.m. (B.H.P. per ton laden do. 8. : 142 lb ft at 2,400 r.o.m

Terque: 142 to ft at 2,400 r.p.m. M.P.H. per 1,000 r.p.m. on top gear, 19.85.

WEIGHT (with 3 gais fuel); 274 ewt (3,073 lb). Weight distribution (per dentit F, 38; R, 42, Laden as tested; 304 ewt (3,423 lb). Lb per c.a. (aden); 1.3.

BRAKES: Type: F, two-leading shoe: R, leading and trailing.
Method of operation: F, bydraulie; R, hydraulic.
Drum dimensions: F and R, 11a diameter: Ziein wide.

Lining area: F, 95 sq in. R, 95 sq in (123 sq in per too laden).

TYRES: 6.40--(5in. Pressures (Ib per sq in): F, 25; R, 25 (normal).

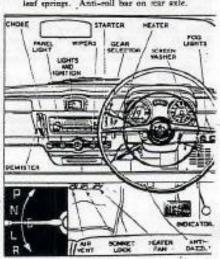
TANK CAPACITY: 16 Imperial gallons. Od sump: 12] pints. Cooling system: 25 pints.

TURNING CIRCLE: 40ft (L and R).

DIMENSIONS: Wheelbase: 8ft \$\$in.
Track: F, 4ft 3\$in. R, 4ft 3\$in.
Length (everall): 15ft 0\$in.
Width: 5ft \$in.
Height 5ft \$in.
Ground clearance: 7\$in.

ELECTRICAL SYSTEM: 12-voic; 51 ampere-hour bettery. Head lights: Double dip; 42-36 wat bulbs.

SUSPENSION: Front, independent, coil springs and wishbones. Rear, half-elliptic leaf eprings. Anti-coil bar on car axie.



Experience something new—today!

AUSTIN

WESTMINSTER A90 'six'



Slip behind the wheel of a Westminster, open the throttle and see what this A90 can dol its new 6-criinder engine delivers all the power you can use — and that little bit extra when you really want it. It can take you from 0 to 70 m.p.h. in 26 seconds flat — and then up to 90 and leyond. Gears are matched for this great performance. In third you can get up to 70 m.p.h. That makes overtaking easy. The gear-change system gives

swift and easy changes, but so flexible is the engine that, in top, you can dawdle smoothly at only 10 m.p.h. Brakes are super safe with over 168 square inches of braking surface. This is a big. fast stylish car with fittings, lines and comfort that are in the luxury class. Imported de-luxe model, with heater, £1145 plus tax. OVER-DRIVE is available as an optional extra,

Try something thrilling - today! See your ustin Distributor or Dealer for a lemonstration drive.





THE AUSTEN NOTOR COMPANY (AUSTRALIA) PTT. LTD., A TNET OF THE SECTION MICTOR CORPORATION (AUSTRALIA) PTY, LTD.

FRONT or REAR, the hasis design is like that of the 450, but the whole car is higger all round. langer bonnet, chrome side strips are main distinguishing marks.

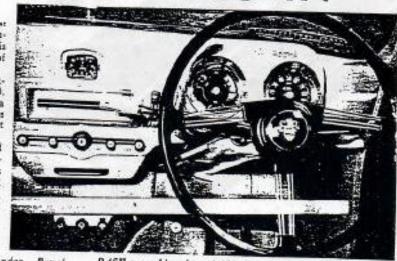


SIX-CYLINDER AUSTIN

The wide boot has 14 cubic feet of luggage space and is unencum-bered by the spare tyre, which is carried in a tray under the tear of the car.

The petrol filler pipe has an ex-ternal cop, unlike that of the A30. Those who deplore the absence of a crankhandle on many modern cars will be glad to find one stowed at the side of the boot.

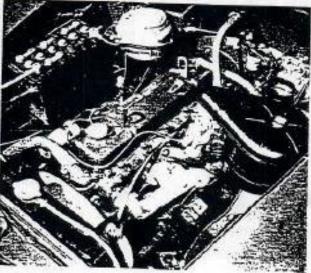
A wide, curved windscrees and large rear window give good visi-bility all round. General finish is excellent, both inside and out and the car looks well worth its price in every way. Pity about those import 102 tions.



OOT is wide but short, with spare under. Petrol mk is behind the rear seat; filler pipe has its un lacking external lid. And look—a crankhande!

DASH resembles that of 450, but there are two instrument groups instead of our. Engine compartment (below) is roomy, houses heater and screen-washer, fitted as standard.







SEEN for the first time in Australia at Sydney's Royal Easter Show, the Austin A90 Westminster saloon is a handsome big brother to the popular A30 Cambridge.

It is bigger all round than the A50—six cylinders instead of four, 8‡ inches longer overall, 2‡ inches higher, 5 cwt. heavier, and about 4‡ inches longer in the wheelbase.

inches longer in the wheelbase.

The engine is the car's newstest feature, being the first medium-priced Austin Six since 1938. Its coming was first rumored more than a year ago.

Although not quite in the luxury class, the five/six-seater A90 offers many refinements that should make it attractive to both the family man and the business user. Its design is very similar to that of the A50, but the bigger Westminster has a longer, sleeker look.

The car is keenly priced at £1317, including tax, and should find plenty of buyers when it reaches the Australian market. But the distributors cannot say when it will be available here, because of recently imposed import restrictions.

The only Westminster now in the country was brought out for exhibition only, and is not yet sufficiently run-in for road-testing.

Engine. Transmission

The engine is the same as that of the new Wolseley 6/90 and is fully described on page 44. In the review of that ear. But the A90 has only one carburettor—a Zenith—and develops 85 h.h.p. at 4000 r.p.m., 10 h.p. less than the Woiseley with its twin carburettors.

The four-speed gearbox has a form of baulk ring synchromesin linown as inertia lock, which prevents gear engagement until synchronisation has been achieved.

The hydraulically operated clutch is Borg and Beck single dry-plate, of Sin. diameter. Hypoid bevel drive takes the power to the rear end through a gearing of 3.91 to 1.

The Undercart

Front suspension is independent, by coil springs controlled by doubleacting hydraulic shock absorbers. At rear, long semi-elliptic reverse-camber springs, underslung and mounted or rubber bushes, are also controlled by double-acting hydraulic thockers, interconnected by a stabiliser bar.

The slotted, pressed-steel disc wheels take 6.40 x 15in, cashion tyres. Four-wheel Girling hydraulic brakes are fitted, with two leading shoes in front. The handbrake acts mechanically, on rear wheels only, and is operated by a jistol-grip control at the steering column.

Steering is high-efficiency cam type, and the car has a turning circle of 36ft.

Body, Interior

The all-steel body is of unitary construction, with fully exceed akin.

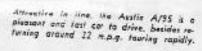
Front seat is of the split bench type, with both sides individually adjustable.

Dash loyout is similar to that of the A50, with all instruments grouped in front of driver. These include speedo and trip recorder, 1 "no charge" warning light, and a head-lamp beam indicator, plus fuel, oil pressure and water temperature gauges. There is a glowebox on the passenger's side and a full-width parted shelf under the dash.

The flashing-light direction indicators are operated by a self-cancelling finger lever on the steering column. Twin forms are standard equipment.

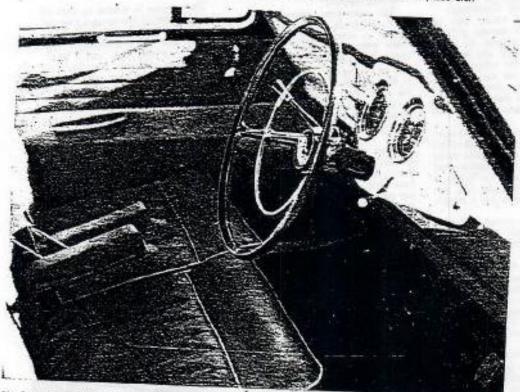
ARMRESTS provided on all the sents give extra comfort. Joiding back into squads when not needed.







Operator's comportment is next and functional. Note dished wheel and trafficular arm below therein what



56 SPORTS CAR WORLD, January, 1958

A PART from the Healey, Austins have never made a car which fits comfortably into the classification of "fast touring with nossibly better things to come". The A/55, however, breaks with tradition and is definitely a high performance car reflecting the generally high standard which can now be found in modestly priced, mass production machines.

But more important, it appears to be a car with great possibilities for sedan car racing. Several are racing in England, and there are reports of considerable success.

The motor, the B.M.C. C-type, is virtually a single carburettor version of the Healey power plant, turning out 92 b.h.p. instead of 102.

Technically this unit is interesting because it has a 12 port cylinder head, and no doubt some clever enthusiast could quickly devise a method of applying triple carburettors and a six branch exhaust system.

Those who play at guessing games declare that 140 b.h.p.

would be quickly obtainable, while 160 b.h.p. should present no great difficulties. Naturally, this sort of output in a car weighing about 25 hundredweight puts it in a race winning position.

The gear ratios are reasonably close, and the box itself is provided with a powerful synchromesh which permits very fast changes. In common with most steering column gear change levers, the one on 95 is best described as fair, rather than good. Main complaint is that it lacks feel.

With 30 m.p.h. available in first cog, 50 in second, and 75 in third the gearbax is obviously there to be used if maximum performance is desired.

The instruments, arranged in two dials, are directly in frost of the driver under a small cowi which effectively prevents reflections on the curved windscreen.

Steering by cam and roller, is light and accurate, and the dished wheel requires slightly more than three turns lock to lock. Seating arrangements are good. The front seat is a divided beach and each half has a folding armount in the centre, besides the ones supplied on each door. Six people can be accommodated.

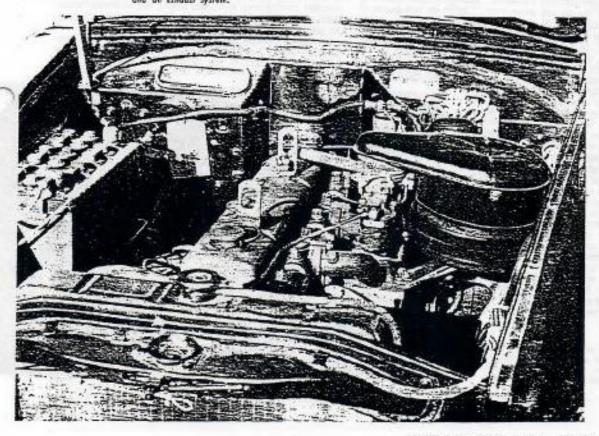
supplied on each door. Six people can be accommodated.
On the road the 95 returns a gratifying performance when the driver wishes to hasten along a little. The brakes are good and require only gentle pedal pressure. If pounded heavily, the drums vill overheat and fade, but recovery is quick, thanks to the drilled disc wheels which keep air sinculating around the drums.

Fast corners can be taken with full confidence. Although there is some understeer, it does not reach the proportions found in many modern cars.

Through tight bends, taken in a low gear, there seems to be slight wheel lifting at the rear, with some excess wheel spin, but it is far from making the car feel unstable.

Flat out the 95 will do a genuine 93 m.ph., and will accelerate to 50 m.p.h in 11.4 seconds and to 60 m.p.h. in 15.1 seconds.

Engine compartment of the Austic is neatly laid ast while the power unit lends itself to considerable helling up by the addition of usine consumettors and an exhaust system.



THE AUTOCAA 12 JULY

The A.105 has plated mouldings which help to brighten as well as add length to its ap-pearance. Each door has an opening querter rest



1649

Austin A.105

AUTOMATIC TRANSMISSION

ITH the exception of the larger and more costly Princess saloons and limousines, the A.105 saloon with Borg Warner suturnatic transmission is the most lavishly furnished model of the Austin range. It is a faster, de luxe version of the A.95 and, apart from the automatic transmission, the radio is the only item officially listed as an optional extra.

Twin S.U. carburettors are fitted to the 2.6-litre engine, and the standard transmission is by a four-speed synchromesh gear box, to which is coupled a Borg Warner overdrive. The automatic transmission version was the subject of this test.

Since a Road Test of the previous A.105 was published on 22 June 1956, there have been improvements in appearance and load-carrying capacity. Though engine power is unchanged, the car can cover over 27 miles on one gallon of petrol, it will reach 70 m.p.h. in just over 26sec and it has a maximum speed of 96 m.p.h. In addition, the total price, in the U.K., of the model tested is £1,329 12s, which represents good, competitive value.

The A.105 is an excellent family car; it is suitable for the business man who has to cover a big annual mileage; and

th the ample baggage space provided

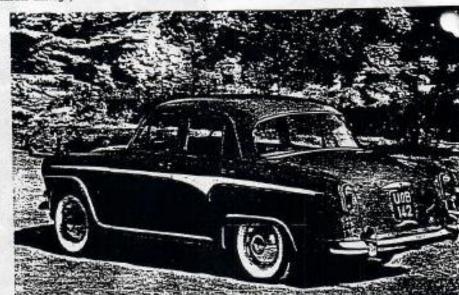
is a fine long-distance tourer.

Before the actual Road Test, the car had been used by The Autocor in covering the Tulip Rally. Provision of a car fitted with automatic transmission for this assignment caused the crew certain mispyings at the outset. It was realized that Rally conditions called for long bours of arduous driving, and previous experience of a transmission of similar type raised some doubts as to would behave on mountain how it would behave on mountain roads. It is in the accelerate-slowaccelerate conditions of fast, mountain pass climbing that the "brain" of an automatic transmission may sometimes be found wanting, and the ability to select and hold a ratio regardless of accelerator position would be welcome. In the event, on a journey of over

2,000 miles, it was found that this happy combination of car and transmission could be driven at much more than everyday average speeds, up hill and down, and still mainmin station with fast rally cars fitted with hand change, synchromesh gear boxes. Up hill, with numerous hairpin bends to negotiate, it was sometimes found that a quick change to Low range retained the optimum ratio for full control in rapid cornering, and the change up to Drive could be made as required.

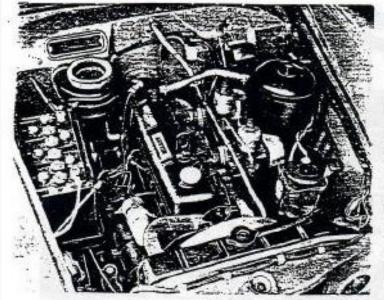
Although engine braking is not available in the Drive range, Low provides this in addition to the useful maximum of 45 m.p.h., and if a gradient is severe enough for engine braking to be required, then 45 m.p.h. is probably as fast as one would wish to go down that particular hill. For leisurely driving over mountain passes, the automatic transmission is efficient, and calls for the minimum effort on the part of driver and car.

in Alpine country continuous gear changing with con-ventional clutch pedal and gear lever calls for considerable activity on the part of the driver. The automatic transmission avoids this, and it was thought that the crew



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An excellent real view is obtained through the large curved window. A list, leaded by the ignition key, covers the petrol tank filler. White wall tyres are standard



Twin S.U. H4 corburettors are used on the A.105 engine; there is a mechanical petrol pump and AC ail both air deaner. The battery and fuses are accessible. Aight: The early marring sun of southern Germany shines on the ice-encrustes A.105

Austin A.105 . . .

fited physically. On part of the route snow and ice was encountered, and it was found possible to maintain control and reasonably high speeds in these conditions. Mechanically the automatic unit behaved without any vices, and the transmission is a whole was quiet.

The twin-carburettor engine develops 10 h.h.p. more than the single carburettor version used in the A95, which has the same body construction and dimensions. According to the makers' figures, the automatic transmission A.105 weighs 1 cwt more than the car from which it is derived, but the extra power is well able to take care of this. The acceleration figures quoted in the data tables are excellent, and the maximum speed almost lifts the A.105 into the gran turismo class. Although the automatic 105 accelerates to 60 m.ph. less rapidly than the manual change A.55 (The Autocar Road Test, 25 January 1957), thereafter it steps away very smartly.

The six-cylinder engine is an easy starter, and proved very smooth. Even in severe freezing conditions, little use of the choke was necessary, and the engine would pull without misfiring when cold. Surprisingly enough, having regard to the provision of two carburettors and automatic transmission, it could be made to propel the car in a very economical fashion. Consumption tests cirried out on in

undulating food gave a figure of 27.5 m.p.g. at a stead, 30 m.p.i.; even at 70 m.p.i., the car recorded 23.5 m.p.g. These tests were carned out with the driver only on board.

Included in the overall figure quoted—20.8 m.p.g.—were fast main road journeys where the maximum speed was used when passible fown graving, and, in general, conditional least favourable to economical metering. On most of these occasions all sents were occupied and some luggage was carried. The designers should be complimented on fitting the car with a sensible size fuel tank holding 16 gallons with the additional advantage of a large filler perifer.

with the additional advantage of a large filler orifice.

During the previous Road Test of an Austin A.105 published in June, 1956, the brakes came in for some grideism. It was wondered how those of the new car would behave, especially in view of exacting Rally requirements and the extra work put on them as a result of the automatic transmission, but at no time was there any sign of fade or unevenness. It was necessary to press the pedal hard for full

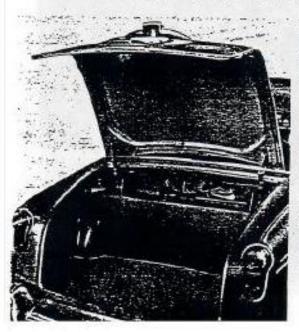


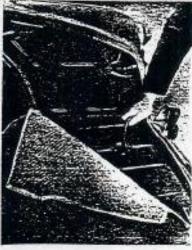
retardation (72.7 per cent), but check braking in traffic or out of town called only for average pressures. The band brake is effective, although the lever is rather tucked away behind the steering wheel.

A large proportion of the total weight of the car is on the front wheels, but this does not give rise to any road-holding peculiarities. An anti-roll har fitted to the rear anti-helps the car to corner without heeling over and without a great deal of tyle squeal, even when the car is driven hard. The ride in both front and mar compartments is good and the car holds the road well when driven fast—an indication of

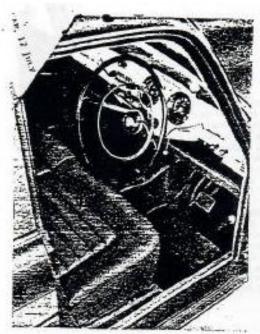
a renseuring reserve of stability in ordinary motoring. Rough surfaces are not apparent to a marked degree, though there was the feeling of firmness in the suspension. It did not however, give rise to adverse artitions by rear seat passengers.

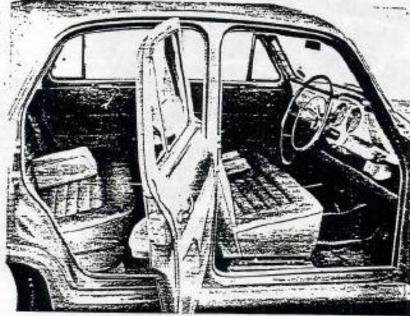
The steering is light and has a good self-centring action. There is very good directional stability at high speed and, at the other end of the scale, the car can be mannauvred easily when parking. Some arrivers do not like the rather large-





the luggage locker has a limed, flat floor one is easy to load. Tools are housed on a small above the fuel tank. The lid is countercadanced on two call springs. The source wheel is carried in a tray beneath the locker, lowered and raised by tarning a large, slotted but need





The sest cushiars are thickly uphalitered and there are folding central armosts. Separate switches are provided for the fag lamps. The direction signalling switch is to the right of the steering column housing.

diameter steering wheel which has become a feature of the marque; after a week of concentrated driving in the car, the size had not proved an embarrasament.

Reference was made earlier in this report to the suitability of the car for long-distance touring. It has a fine cruising speed range, and does not the however long or hard it is driven. In this respect the machine is better off than the driver; the rake of the front seat backrests is too upright, and on a long journey the driver has the feeling of being thrust towards the steering wheel. The large cover over the gear box intrudes into the space available for the driver's left foot, and his left leg is forced to adopt an "off centre" position which can become tiring after a time.

The seat cushions are well apholatered and there is good support for the thighs. There is an armrest on each door; that on the driving side does not interfere with movement. Central folding armrests on the separate seats add to the comfort of driver and passenger, and give lateral support when the car is being cornered briskly.

The actual driving position is good, in that there is ample visibility through the large, curved windscreen and the screen pillers do not interfere with sideways vision to any many a degree. The "flying A" mout makes a good atming polar, for those drivers who prefer such an iid, and the top of each wing can be seen clearly by drivers of varying heights. The brake pedal is well positioned and can be operated by either foot; the accelerator had in annoying habit of tapping the driver's foot at certain engine speeds.

Two large dists contain the main instruments, which can be read without difficulty except for two areas in which the driver's vision is obstructed by the born sing. There are only four main switches in addition to the light and ignition switch, and it is difficult to see the need for the four small identification lights on the lower part of the panel; they were found to be distracting at night. The main panel lighting, which does not have shoostat dimming control, is bright enough without causing glare, and the gear position indicator also is illuminated. As a safety provision, the top of the facia is covered with plastic-backed sponge rubber; though it is not very thick it his the additional advantage of preventing reflections in the windscreen.

Head lamps with good-quality reflectors are fitted on the A.105 and those who wish to do so may drive last at night with ample illumination. There is good beam length and width, and oncoming traffic did not appear to be troubled when the dipped beam was in use. It was difficult to

determine if the plated cowls over the lamp rims served any practical purpose. Twin for lamps—standard equipment—are controlled by individual switches on the right of the facia panel. Strangely enough, on this otherwise fully equipmed car there is no reversion links.

equipped car there is no reversing light.

The self-parking wipers clean the acreen well, but they have a slow movement. Dual Windtone horns, mounted behind the radiator grille, project an effective warning. Space for small articles is provided by a cubby hole, the lid of which when closed can be locked by a separate key, and when dropped down forms a useful small table. Beneath the facia is a full-width shelf of commendable depth.

Other comforts for driver and passengers include a screen washer, electric clock, sun vixors and a very effective heating and demisting unit, which cleared the screen readily in cold and wer conditions. The heater proved adequate in the severe winter weather encountered on the Tulip Rally. Later, during a heat wave in England, the extra fresh air commol beneath the facia admitted a pleasant cooling draught to the interior. Ample air flow through the car could be had by opening the quarter vents in the rear



Fresh air is taken in through the operative in the bonnet top. The twin fog lamps are part of the standard equipment