

THE

AUSTIN A40-A50 CAMBRIDGE





With sales totalling 600,000 in a little over six years, the Austin A40 Devon and Somerset models achieved a worldwide popularity unequalled by any other light car. Now comes the A40-A50 Cambridge, a successor to these two famous cars and indeed the finest of them all.

Already making a name for itself as a car of unlimited scope and versatility the Cambridge embodies a great many features that will whet the appetite of motorists everywhere. It offers comfortable coachwork with a choice of style, colour, trim and equipment, alternative O.H.V. 1200 c.c. or 1500 c.c. engine, new high-efficiency steering, special easy change gear mechanism, large-diameter hydraulic brakes and independent coil spring front suspension. It has everything, in fact, to bring a new delightful quality to inexpensive motoring.

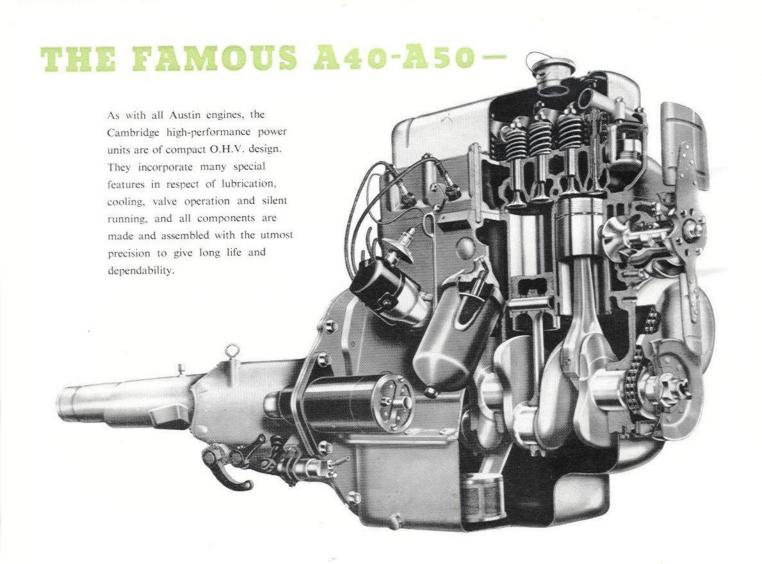


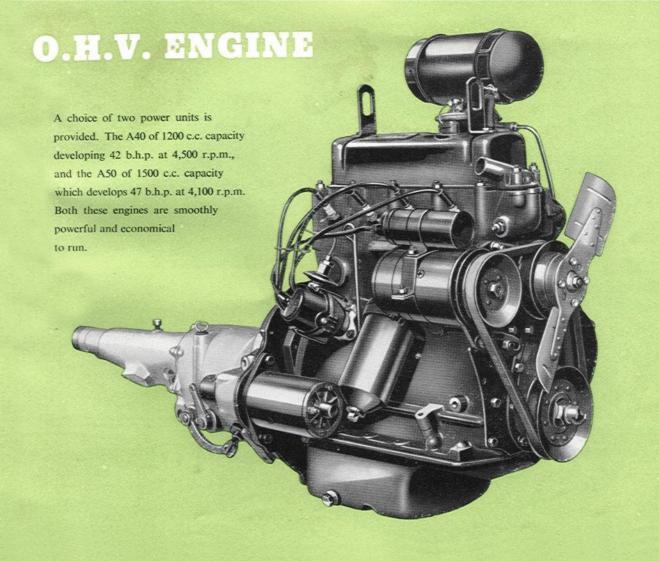
The Cambridge is available in four versions; 4-door Standard and 4-door De Luxe Saloons with the 1200 c.c. A40 engine: also 4-door Standard and De Luxe Saloons with the 1500 c.c. A50 engine. Thus, there is a Cambridge model to suit all tastes and pockets.

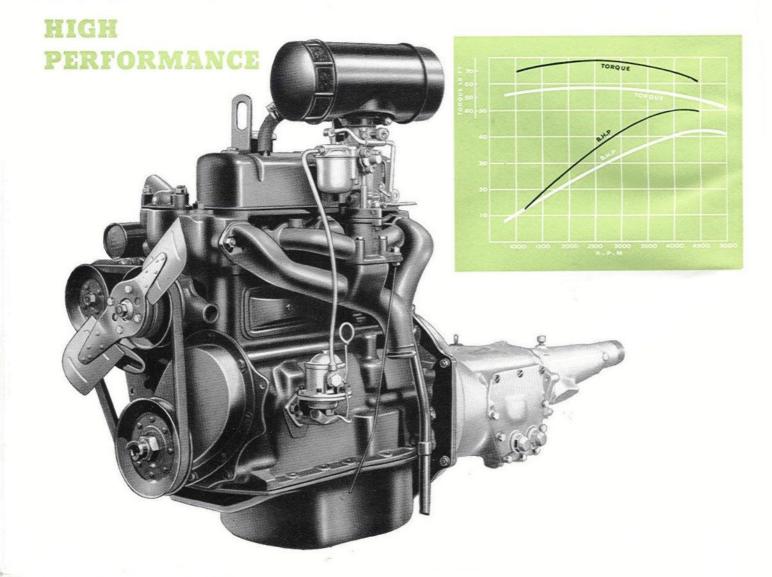
Of all-steel unitary construction the Cambridge body has great torsional strength. It provides safe and comfortable accommodation for four or five passengers and there is a fine choice of exterior colours

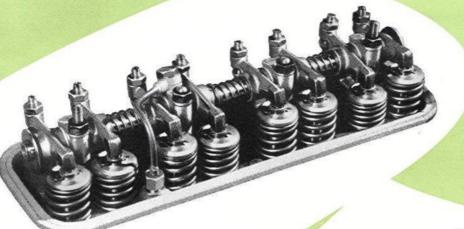
and interior trim.











OVERHEAD VALVES

The position of the overhead valves at the top of the engine makes them exceptionally accessible for periodical inspection and adjustment. They are actuated by push-rods from the camshaft and are extremely efficient and silent in operation.

CAST-IRON CRANKCASE

Foundation for dependable power is the tough cast-iron crankcase and cylinder block with its perfectly machined jointing surfaces. Ample water passages incorporated in the block provide for generous cooling of the cylinder bores.



INSIDE INFORMATION



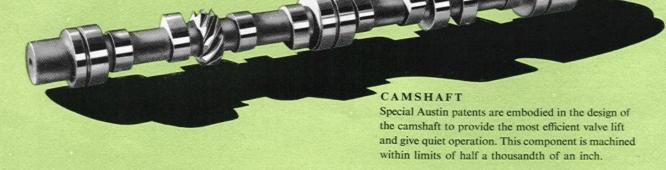
TENSIONER RING

A synthetic rubber ring is fitted between the sprockets of the camshaft gear to maintain timing chain tightness and ensure silent running.



PISTONS

The aluminium alloy pistons are concave-topped to assist even combustion and give vibrationless running. They are fitted with four rings—three compression and one slotted for oil return.



CRANKSHAFT

Holes drilled in the crankpins of the tough forged steel crankshaft ensure an ample





Main and connecting rod bearings are shell type, steel-backed and lined with white metal.





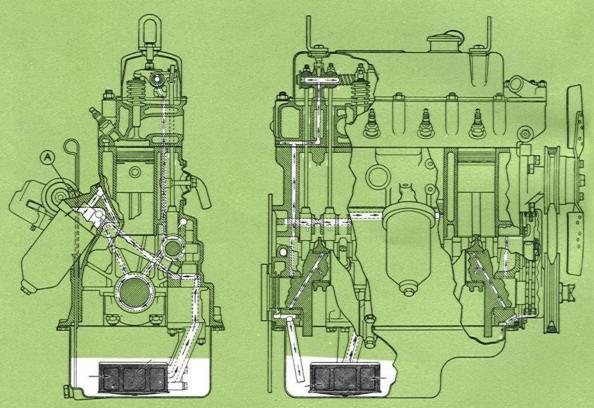
A by-pass filter with renewable element is included in the lubrication system. This extracts any harmful foreign matter and allows only clean oil to circulate round the engine.

CONNECTING-RODS

The forged steel connecting rods have jet holes to provide lubrication for the cylinder walls immediately the engine is started. This ensures maximum life for bores and pistons.



ENGINE LUBRICATION



The lubrication system of the Austin Cambridge engine incorporates many patented features. Oil is delivered to an oil gallery on the right-hand side of the crankcase, and thence under pressure to main, connecting rod and camshaft bearings. The front camshaft bearing feeds

oil to the camshaft gear for timing chain lubrication while the camshaft rear bearing supplies lubricant to the overhead valve rocker gear. There is a pressure feed to each tappet, and the oil returns to the sump by way of the push-rod apertures.

THE FUEL SYSTEM

HOT-SPOT

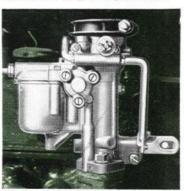
A stainless-steel hot-spot is fitted in the induction system just below the carburetter.

The lower portion of this device diverts some of the hot exhaust gases on to the upper plate which in turn pre-heats the fuel passing over it. This ensures more efficient vaporisation of the fuel in the carburetter.



CARBURETTER

A40 and A50 engines are fitted with a Zenith downdraught carburetter. It has an accelerator pump and economy device to give a brisk performance with low fuel consumption. A straightforward and dependable unit, it requires the minimum of attention to keep it in good trim.



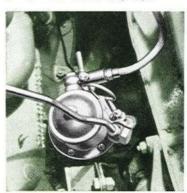
AIR CLEANER

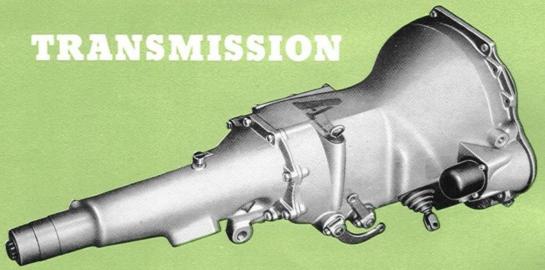
Most cars for export are fitted with an oil bath air cleaner. Dust particles are extracted from the ingoing air by both the oil and the gauze strainer so that only clean air enters the carburetter. A simplified gauze-type air cleaner is supplied for territories where bad dust conditions are not usually met.



PETROL PUMP

Petrol is drawn from a tank located behind the rear seat by a mechanical pump fitted with a stop tap.





FOUR-SPEED GEARBOX

Synchromesh engagement is provided for second, third and top speeds of the four-speed gearbox. Special baulk rings fitted to the gears make for easy, direct changes of speed. The gearbox is extended at the rear to provide extra support and permit the use of a short propeller shaft, thus assisting the smooth transmission of power.

GEAR CARRIER

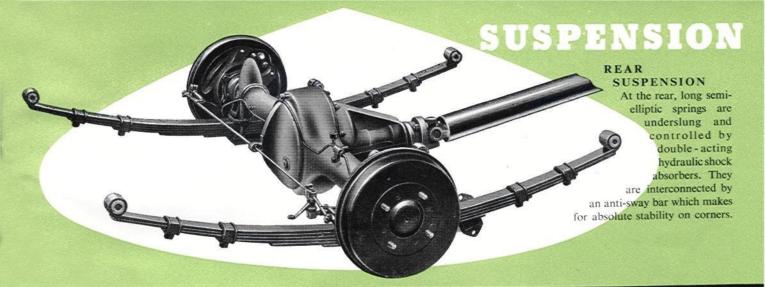
Crown wheel, pinion and differential gears are mounted in a detachable carrier. This compact form of assembly enables the gears to be removed as a unit without dismantling the complete rear axle.

CROWN WHEEL AND PINION

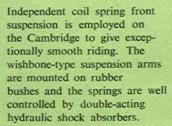
Final drive gears are of hypoid design in which the pinion is mounted below the centre line of the crown wheel. This reduces the height of the transmission and permits the use of a lower body floor.







FRONT SUSPENSION

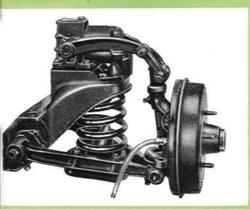


HYDRAULIC BRAKES

BRAKING

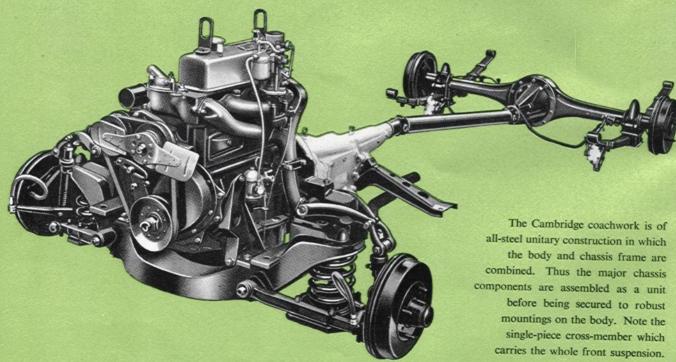
The large-diameter hydraulic brakes provide smooth, safe and powerful retardation. Front brakes are of twoleading-shoe design.





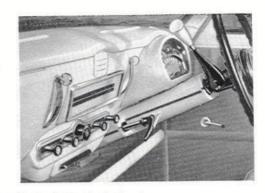
MAJOR UNIT ASSEMBLY







SENSIBLE AND HANDY CONTROLS



GEAR CHANGE

A well-placed control on the steering column makes gear changing a very simple operation. All connecting linkage consists of rods, no cables are used. The pistol-grip handbrake is neatly housed in the steering column cover. It applies mechanical brakes on the rear wheels.

HANDBRAKE

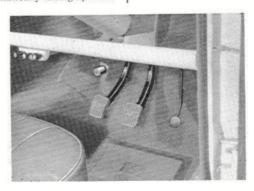
GEAR POSITIONS

Attractively designed in transparent plastic material, the knob of the gear lever clearly indicates the change speed positions.



Pendant pedals are conveniently positioned. The clutch is hydraulically operated, oil absorbing all engine movement and automatically taking up wear.

PENDANT PEDALS



LIGHTING

12-VOLT BATTERY

A 12-volt battery of 38 ampere-hour capacity is fitted in an accessible position under the bonnet.



FRONT LIGHTS

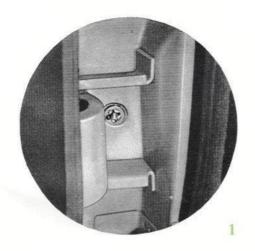
Headlights and flashing direction indicators are built into the front wings. Sidelights are mounted on top of the wings where they are visible to the driver.





REAR LIGHTS

At the rear, combined stop-tail lights and amber flashing direction indicators give fair warning to following traffic. There is a separate number-plate light.







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COURTESY LIGHT SWITCH

A switch, controlled by the opening and closing of the front doors, automatically operates the car interior roof light. The light can also be operated manually.

DIRECTION INDICATOR CONTROL

2 Amber flashing indicator lights are controlled by a neat self-cancelling finger lever incorporating a built-in warninglight.

CLEARLY VISIBLE INSTRUMENTS

Placed directly in front of the driver and visible through the steering wheel is the speedometer which also incorporates the fuel gauge, water temperature indicator and warning lights to show low oil pressure, no dynamo charge and headlamp beam position.





GLOVE BOX

A useful glove box is provided in the passenger side of the fascia. The lid, when open, is held in the horizontal position and may be used as a table.

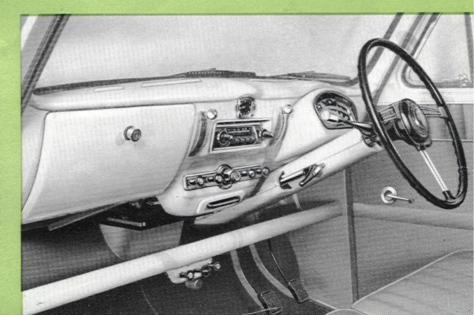


BONNET RELEASE

The bonnet release is operated from inside the car. The control knob is inconspicuous yet accessible when required.

FASCIA FEATURES

An attractively designed dash faces the driver of the Cambridge. Instruments and controls are sensibly positioned for maximum convenience, and the deep parcel shelf, which runs the full width of the car beneath the fascia, provides admirable storage space for handbags, parcels and the many incidental items carried by the motorist. The steering column is neatly encased in a metal cover and the spring-spoke steering wheel is 17 in. in diameter.



FRONT VENTILATING LOUVRES





REAR VENTILATING LOUVRES

WINDOWS



Fine visibility and ample ventilation are afforded by the large door windows. Altogether there is nearly half a hundredweight of glass in the Cambridge, covering an area of more than 17 square feet. All the glass is toughened for safety and the windows can be quickly raised or lowered. Swivelling friction-controlled ventilating louvres are fitted to both front and rear doors to provide draught-free ventilation or a flow of fresh air into the car.

DRIVING VISION



The driver has an exceptionally wide range of vision through the toughened curved glass windscreen. It is deep, too, to give an excellent view of the road ahead. Even in wet weather clear visibility is assured by the wide sweep of the dual, electric windscreen wipers which are self-parking.

REAR VIEW

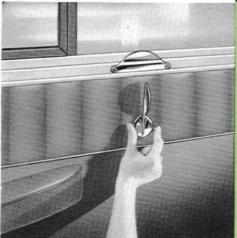


Completing the all-round visibility of the Cambridge is the large-area rear window through which can be gained a comprehensive view of the road behind the car. Manœuvring in reverse is made easy and following traffic can be safely kept in sight.

DOOR HANDLES

Door handles are of the pushbutton type. A recess in the door behind the handle affords ample room for the fingers.





SAFETY CATCH

A special safety catch inside the rear doors prevents their inadvertent opening by children. The doors may still be opened from the outside.

ARM-RESTS

On De Luxe saloons side arm-rests are fitted to the door casings. They are unobtrusively placed yet convenient to use.



WIDE-OPENING DOORS

Getting in and out through the wide doors of the Cambridge is a simple matter for young and old. All doors are forward-hinged for safety and open to a wide angle.



SEAT ADJUSTMENT

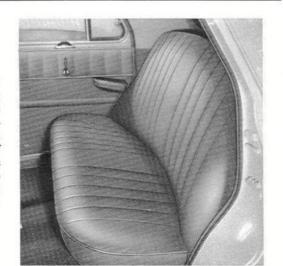
Front seats are individually adjustable to one of three set positions.

These positions are carefully graded to give maximum comfort to every size of driver, and the adjustment is quickly effected.

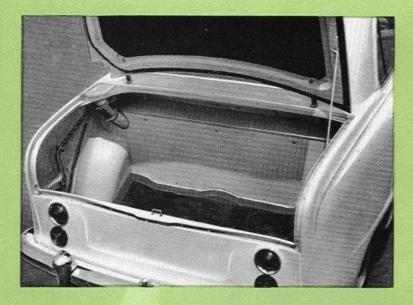


REAR SEATING

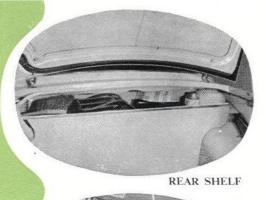
The rear seat, being positioned forward of the wheel arches, is completely unobstructed and extends the full width of the car. There is spacious accommodation for two passengers and occasional seating for three.

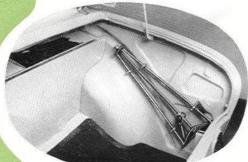


LUGGAGE COMPARTMENT



With a capacity of approximately 14 cubic feet the Cambridge boot has room for a vast amount of luggage and sporting equipment. A shelf at the back of the boot provides useful stowage for tools, tyre pump, washing sponge and similar items that would otherwise occupy floor space. The wheelbrace/starting handle and jack are held in special clips at the sides.

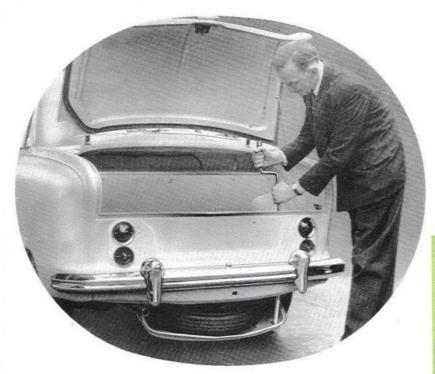




JACK CLIP



STARTING HANDLE CLIP



SPARE WHEEL CARRIER

The spare wheel is carried in a special tray beneath the boot. It is quickly and easily lowered without disturbing luggage by means of the starting handle, and just as easily raised by the same method.

JACKING

Jacking the car causes no problems. The triangular jack fits into a bracket in the body side and lifts one side of the car at a time. The bracket is protected by a metal cover when not in use.



