



F.I.A. Recognition No. 1160

CONFEDERATION OF AUSTRALIAN MOTOR SPORT

(Authorised to control the sport of Automobilmism in the Commonwealth of Australia.)

Federation Internationale de l'Automobile.

Form of Recognition in accordance with
Appendix J to the
International Sporting Code.

Manufacturer BRITISH MOTOR CORPORATION (AUSTRALIA) PTY. LTD.

Model Austin Freeway Year of Manufacture 1962

Chassis YABS 1

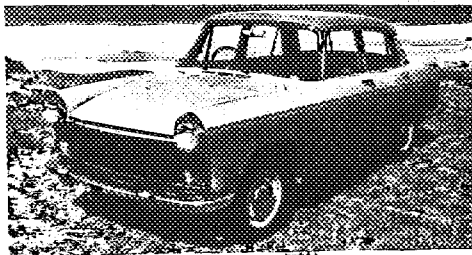
Serial No. of Engine 2LY/ZA/1

Type of Coachwork All-metal mono-construction four door saloon

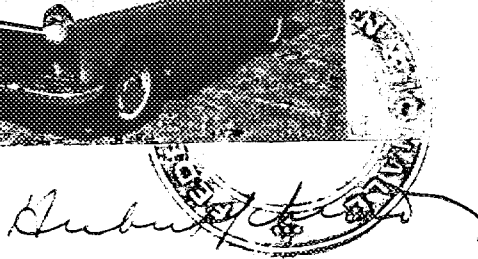
Recognition is valid from 29 JANV 1963 In category Tourisme

liste générale 9
additionnelle 19

Photograph to be affixed here 3/4 view of car from front right.



Stamp of F.I.A. to be
affixed here.



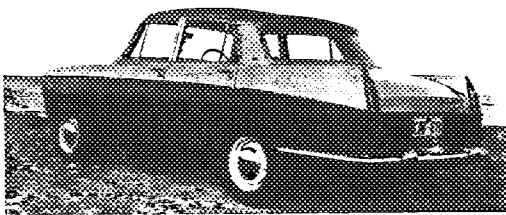
General description of car: specifying materials of coachwork

Four-door saloon body of all-metal construction, Bench seats in front and rear upholstered in PVC coated cloth, Six-cylinder water-cooled engine of 2433 cc driving conventional rear axle through a 3-speed gear box with steering column control -

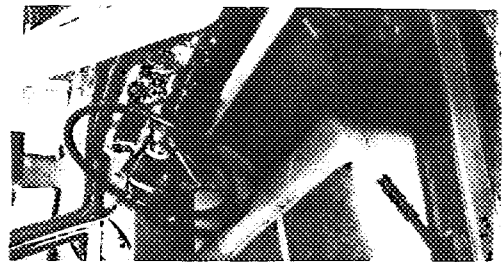
-Front suspension is by independent coil springs, Car is classed as a 6-seater.

Photographs to be affixed below.

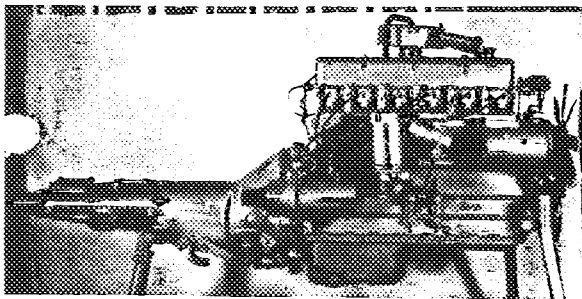
3-view of car from rear left.



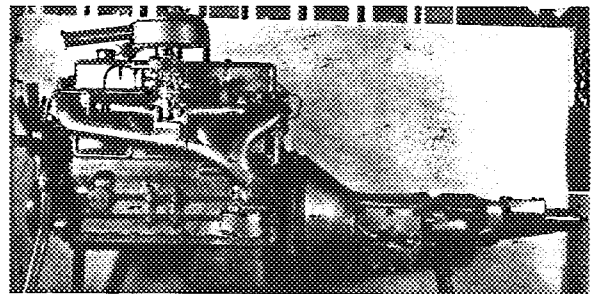
Interior view of car through driver's door.



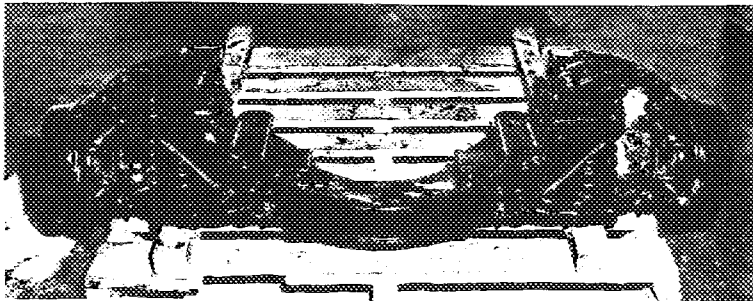
Engine unit with accessories from right.



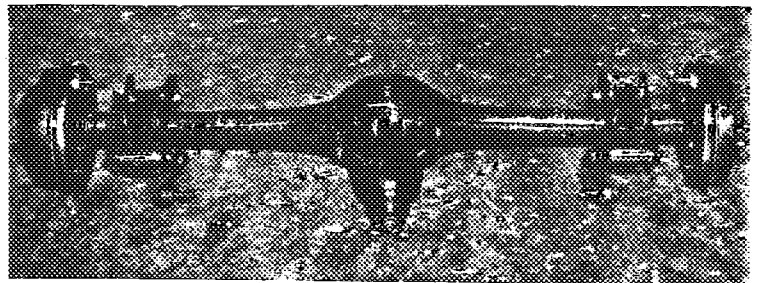
Engine unit with accessories from left.



Front axle complete (without wheels).



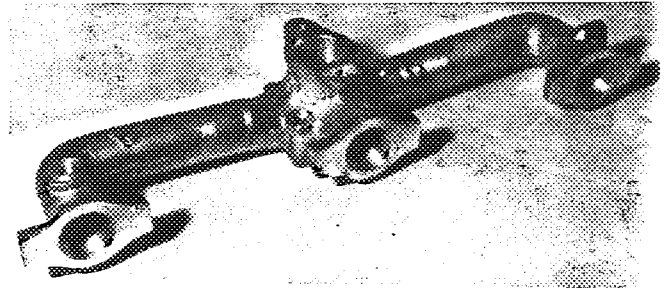
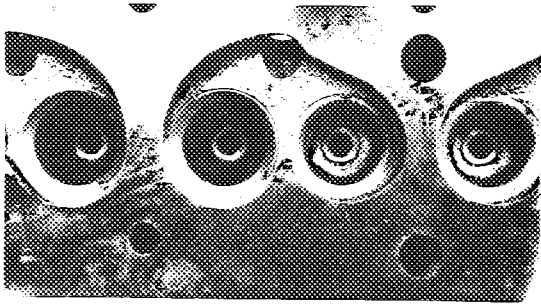
Rear axle complete (without wheels).



ENGINE

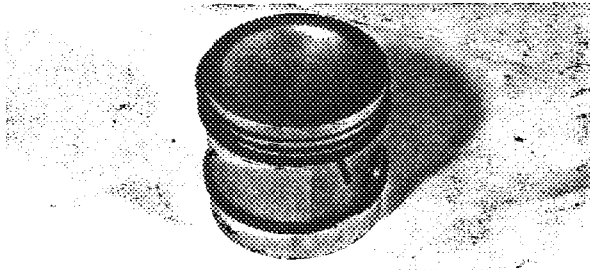
in line Yes
 No. of cylinders Six in V -
 opposed -
 Cycle Four Firing order 1,5,3,6,2,4
 Capacity 2433 c.c. Bore 76.2 m.m. Stroke 88.9 m.m.
 Maximum rebore 1.01 mm Resultant capacity 2495 c.c.
 Material of cylinder block cast iron Material of sleeves, if fitted cast iron
 Distance from crankshaft centre line to top face of block at centre line of cylinders 252.3 to 252.5 m.m.
 Material of cylinder head Cast Iron Volume of one combustion chamber 38.7 to 39.7 c.c.
 Compression ratio 7.7 :1
 Material of piston Aluminium Alloy No. of piston rings Four
 Distance from gudgeon pin centre line to highest point of piston crown 41.9 to 42.0 m.m.
 Bearings { Crankshaft main bearings: Type Copper Lead Indium Dia. 54.04-54.06 m.m.
 Connecting rod big end: Type Copper Lead Indium Dia. 47.67 to 47.70 m.m.
 Weights { Flywheel 12.81 kg.
 Crankshaft 21.42 kg.
 Connecting rod 1.00 kg. (with bearing.)
 Piston with rings .35 kg.
 Gudgeon pin .09 kg.
 No. of valves per cylinder Two Method of valve operation Push Rod
 No. of camshafts One Location of camshafts In Block
 Type of camshaft drive Chain
 Diameter of valves: Inlet 34.8-34.9 m.m. Exhaust 30.0-30.1 m.m.
 Diameter of port at valve seat: Inlet 31.4 - 31.9 m.m. Exhaust 27.4-27.9 m.m.
 Tappet clearance for checking timing: Inlet .53 m.m. Exhaust .53 m.m.
 Valves open: Inlet T.DC Exhaust 35° BBDC
 Valves close: Inlet 50° ABDC Exhaust 15° ATDC
 Maximum valve lift: Inlet 7.9 m.m. Exhaust 7.9 m.m.
 Degrees of crankshaft rotation from zero to—
 Maximum lift: Inlet 115° Exhaust 115°
 1/2 Maximum lift: Inlet 67° Exhaust 67°
 Valve springs: Inlet Exhaust
 Type Coil Coil
 No. per valve One One
 Carburettor: Type Down Draft No. fitted One
 (up or down draft, horizontal)
 Make Zenith Model 34VN
 Flange hole diameter 34 m.m. Choke diameter 29mm ± 1 Bar m.m.
 Main jet identification No. 120

Air filter: Type Paper element No. fitted One
 Inlet manifold:
 Diameter of flange hole at carburettor 31.1 m.m.
 Diameter of flange hole at port 30.0 - 31.1 m.m.

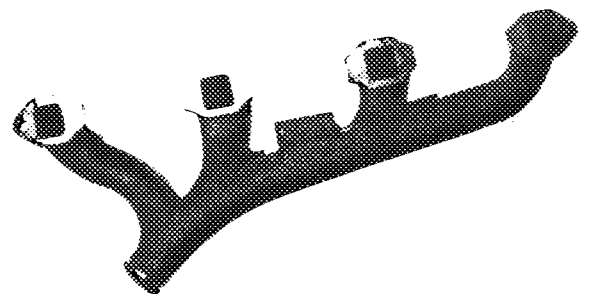


Exhaust manifold:
 Dimension ~~Diameter~~ of flange hole at port Two end ports 30.1 & 36.5 Two centre ports 33.5 & 36.5 m.m.
 Diameter of flange hole at connection to silencer inlet pipe 42.0 m.m.

Photograph of piston showing crown to be affixed here.



Photograph of exhaust manifold to be affixed here.



ENGINE ACCESSORIES

Make of fuel pump S.U. No. fitted One
 Method of operation Electric
 Type of ignition system Coil coil or magneto
 Make of ignition Lucas Model 25 D6
 Method of advance and retard Centrifugal and Vacuum
 Make of ignition coil Lucas Model 1A 12
 No. of ignition coils One Voltage 12
 Make of dynamo Lucas Model 0L0/1
 Voltage of dynamo 12 Maximum output 22 amps.
 Make of starter motor Lucas Model M35G/1
 Battery: No. fitted One Voltage 12 Capacity 68 amp. hour
 @ 20 hr. rate

Make Lucas Model 12BT68 F.I.A. Recognition No. _____
 Manufacturers Reference No. of Application _____

TRANSMISSION

Make of clutch Borg and Beck Type DS/G
 Diameter of clutch plate 215.9 No. of plates One
 Method of operating clutch Hydraulic
 Make of gearbox B.M.C. Type "B"
 No. of gearbox ratios Three
 Method of operating gearshift Hand Lever
 Location of gearshift Steering column for 3-speed,
 Is overdrive fitted? No
 Method of controlling overdrive, if fitted No

	GEARBOX RATIOS			ALTERNATIVE RATIOS				
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1.	3.09	19/32-18/33						
2.	1.62	19/32-26/25						
3.	Direct	Direct						
4.	-	-						
5.	-	-						

Type of final drive Hotchkiss
 Type of differential Conventional with differential incorporated
 Final drive ratio 3.91:1 in centre of crown wheel
 No. of teeth 11/43 Alternatives _____
 Overdrive ratio, if fitted _____

WHEELS

Type Pressed Steel Weight 6.23 kg.
 Method of attachment Four Nuts
 Rim diameter 355.6 m.m. Rim width 114.3 m.m.
 Tyre size: Front 5.90" x 14" Rear 5.90" x 14"

BRAKES

Method of operation Hydraulic
 Is servo assistance fitted? _____
 Type of servo, if fitted _____
 No. of hydraulic master cylinders One Bore 17.7 m.m.

	Front		Rear	
No. of wheel cylinders	Two		One	
Bore of wheel cylinders	22.2	m.m.	22.2	m.m.
Inside diameter of brake drums	228.6	m.m.	228.6	m.m.
No. of shoes per brake	Two		Two	
Outside diameter of brake discs	-	m.m.	-	m.m.
No. of pads per brake	-		-	
Dimensions of brake linings per shoe or pad (if all shoes or pads in each brake are not of same dimensions, specify each)				

	Front		Rear	
Length	218.4	m.m.	220.0	m.m.
	218.4	m.m.	220.0	m.m.
Width	63.5	m.m.	44.4	m.m.
Total area per brake	27760	m.m. ²	19560	m.m. ²

SUSPENSION

	Front		Rear	
Type	Independent		Rigid Axle	
Type of spring	Coil		Semi Elliptic Leaf	
Is stabiliser fitted?	No		No	
Type of shock absorber	Lever Arm Hydraulic		Lever Arm Hydraulic	
No. of shock absorbers	Two		Two	

STEERING

Type of steering gear	Cam and Roller		
Turning circle of car	11.2	m., approx.	
No. of turns of steering wheel from lock to lock	2.8		

CAPACITIES AND DIMENSIONS

Fuel tank	45.4	litres	Sump	5.6 litres inc.		
Radiator	8.0	litres	Filter			
Overall length of car	452.1	cm.	Overall width of car	153.6	cm.	
Overall height of car, unladen (with hood up, if appropriate)	151.8	cm.				
Distance from floor to top of windscreen:						
Highest point	91	cm.	Lowest point	105	cm.	
Width of windscreen:						
Maximum width	129	cm.	Minimum width	113	cm.	
*Interior width of car	124	cm.				
No. of seats	One Bench Front, One bench rear					
Track: Front	128.2	cm.	Rear	120.4	cm.	
Wheelbase	22	254.4	cm.	Ground clearance	158.7	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 1143 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 :-