



F.I.A. Recognition No. 1161

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 THE BRITISH MOTOR CORPORATION (AUST.) PTY. LIMITED

Model MORRIS MAJOR ELITE Year of Manufacture 1962

Chassis YMHS/3

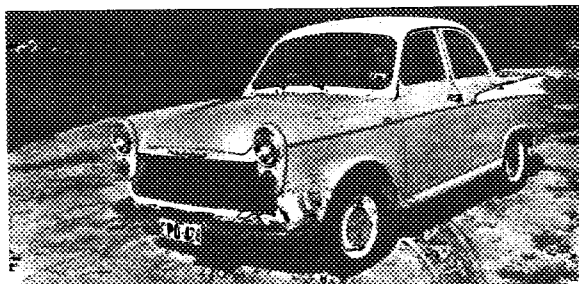
Serial No. of Engine 16Y/U/L

Type of Coachwork METAL MONO CONSTRUCTION FOUR DOOR SALOON

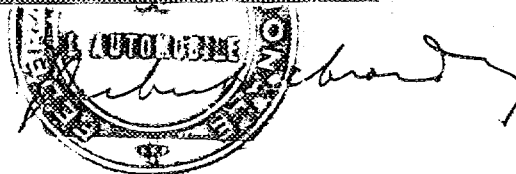
Recognition is valid from 29 JANV 1963 In category Tourisme

liste generale 9
additionnelle 19

Photograph to be affixed here $\frac{3}{4}$ view of car from front right.



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

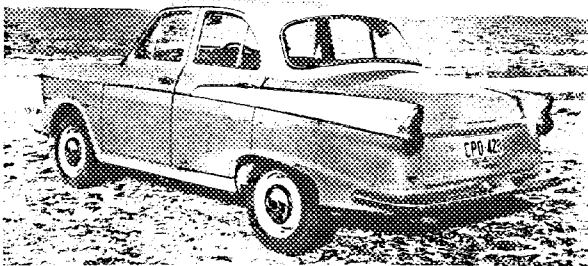


General description of car: specifying materials of coachwork

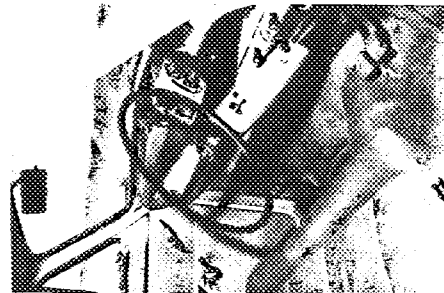
Four door Saloon of all-metal construction. Bench seats front and rear, upholstered in P.V.C. coated cloth. Four cylinder inline water cooled engine of 1622 c.c. capacity, driving conventional rear axle through a 4-speed gearbox with centre floor control. Front suspension is independent with torsion bar springs. Steering is by rack and pinion steering box. Car is generally classed as a 4/5 seater.

Photographs to be affixed below.

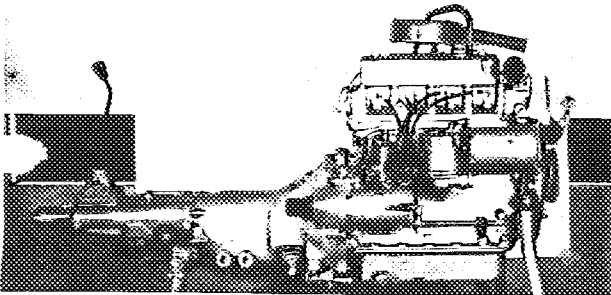
3/4-view of car from rear left.



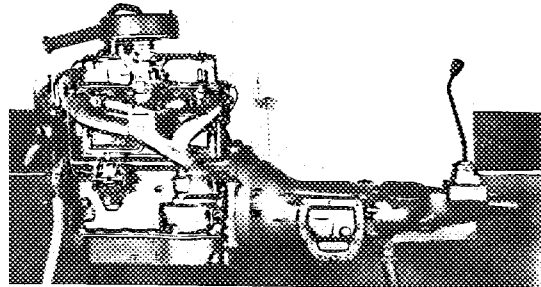
Interior view of car through driver's door.



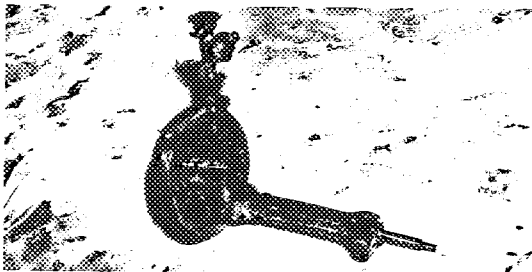
Engine unit with accessories from right.



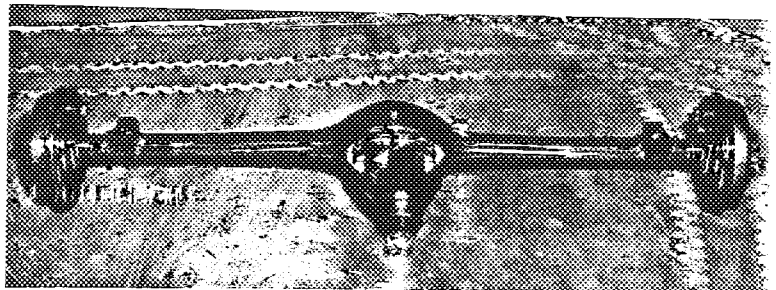
Engine unit with accessories from left.



Front axle complete (without wheels).



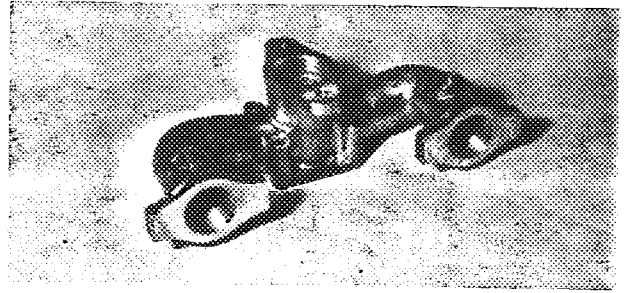
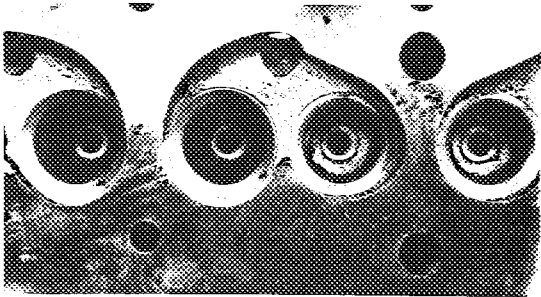
Rear axle complete (without wheels).



ENGINE

in line **Yes**
 No. of cylinders **Four** In V **No**
 opposed **No**
 Cycle **Four** Firing order **1.3.4.2**
 Capacity **1622** c.c. Bore **76.20** m.m. Stroke **88.90** m.m.
 Maximum rebore **1.01 mm** Resultant capacity **1666** c.c.
 Material of cylinder block **cast iron** Material of sleeves, if fitted **C.I.**
 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 **White Metal** Dia. **50.83 to 50.88** m.m.
 Connecting rod big end: Type **Copper Lead** Dia. **47.67 to 47.70** m.m.
 Weights { Flywheel **12.81** kg.
 Crankshaft **.....** kg.
 Connecting rod **1.00** kg.
 Piston with rings **.36** 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 to 34.9** m.m. Exhaust **30.0 to 30.1** m.m.
 Diameter of port at valve seat: Inlet **31.4 to 31.9** m.m. Exhaust **47.4 to 47.9** m.m.
 Tappet clearance for checking timing: Inlet **.53** m.m. Exhaust **.53** m.m.
 Valves open: Inlet **TDC** 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°**
 $\frac{3}{4}$ 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 **28 MM & 1 bar** m.m.
 Main jet identification No. **97**

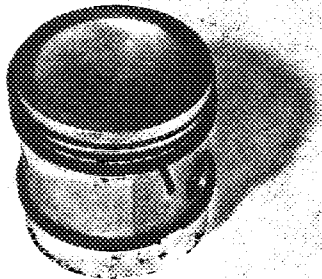
Air filter: Type Paper Element No. fitted One
 Inlet manifold:
 Diameter of flange hole at carburettor 36.1 m.m.
 Diameter of flange hole at port 34.0 to 34.1 mm m.m.



Exhaust manifold:

Dimensions Diameter of flange hole at port End Ports 30.1 x 36.5 Centre Port 33.3 x 36.5 m.m.
 Diameter of flange hole at connection to silencer inlet pipe 35.7 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 Goes No. fitted One
 Method of operation Mechanical from camshaft eccentric
 Type of ignition system Coil coil or magneto
 Make of ignition Lucas Model DM2
 Method of advance and retard Centrifugal and Vacuum
 Make of ignition coil Lucas Model LA12
 No. of ignition coils One Voltage 12
 Make of dynamo Lucas Model C40/1
 Voltage of dynamo 12 Maximum output 22 amps.
 Make of starter motor Lucas Model M35G/1
 Battery: No. fitted One Voltage 12 Capacity 38 amp. hour
 @ 20 Hr. rate.

Make Lucas Model 12BST 38 F.I.A. Recognition No.
 Manufacturers Reference No. of Application

TRANSMISSION

Make of clutch Borg and Beck Type A6 - G
 Diameter of clutch plate 203.2 No. of plates 1
 Method of operating clutch Hydraulic Slave Cylinder
 Make of gearbox BMC Type "B"
 No. of gearbox ratios Four
 Method of operating gearshift Centre Lever
 Location of gearshift Floor
 Is overdrive fitted? No.
 Method of controlling overdrive, if fitted --

	GEARBOX RATIOS		ALTERNATIVE RATIOS					
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1.	3.636	21/30-11/28						
2.	2.214	21/30-20/31						
3.	1.374	21/30-26/25						
4.	Direct	Direct						
5.								

Type of final drive Hotchkiss
 Type of differential Conventional with Differential incorporated
 Final drive ratio 4.22:1 in centre of crown wheel
 No. of teeth 9/38 Alternatives

Overdrive ratio, if fitted --

WHEELS

Type Pressed Steel Weight 6.00 kg.
 Method of attachment Four Nuts
 Rim diameter 355.6 m.m. Rim width 101.6 m.m.
 Tyre size: Front 5.20" x 14" Rear 5.20" x 14"

BRAKES

Method of operation Hydraulic
 Is servo assistance fitted? No
 Type of servo, if fitted --
 No. of hydraulic master cylinders 1 Bore 19.0 m.m.

	Front		Rear
No. of wheel cylinders	Two		One
Bore of wheel cylinders	20.3	m.m.	19.0
Inside diameter of brake drums	228.6	m.m.	203.2
No. of shoes per brake	Two		Two
Outside diameter of brake discs	-	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.	176.8
	218.4	m.m.	176.8
Width	38.1	m.m.	38.1
Total area per brake	16642 sq.	m.m. ²	13460 sq.

SUSPENSION

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

STEERING

Type of steering gear	Rack and Pinion
Turning circle of car	10.5 m., approx.
No. of turns of steering wheel from lock to lock	2-2/3

CAPACITIES AND DIMENSIONS

Fuel tank	40.8	litres	Sump Inc. filter	4.25	litres
Radiator	7.3	litres	inc. heater		
Overall length of car	409	cm.	Overall width of car	154.9	cm.
Overall height of car, unladen (with hood up, if appropriate)	149.8	cm.			
Distance from floor to top of windscreen:					
Highest point	98	cm.	Lowest point	101	cm.
Width of windscreen:					
Maximum width	114.5	cm.	Minimum width	103	cm.
*Interior width of car	116	cm.			
No. of seats One Bench Front, One Bench Rear					
Track: Front	129.2	cm.	Rear	127.8	cm.
Wheelbase	233.6	cm.	Ground clearance	165.1	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	936	kgs.
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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 :-