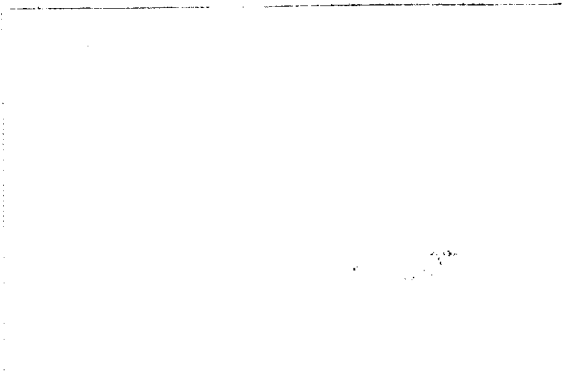


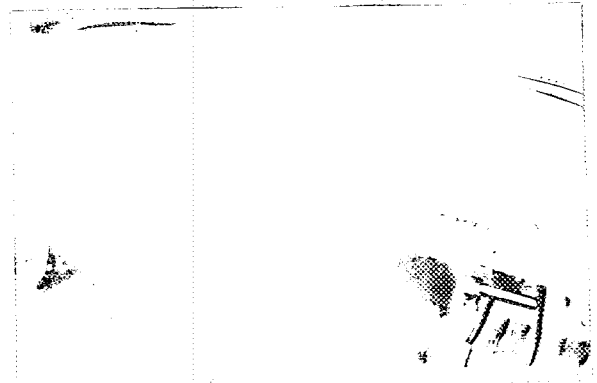


General description of car: specifying materials of coachwork

Photographs to be affixed below.



*Engine unit with accessories from right.*



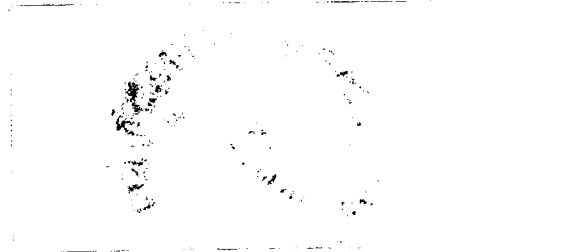
*Engine unit with accessories from left.*



*Front axle complete (without wheels).*



*Rear axle complete (without wheels).*



NOTE: 179 cu. in. Engine - Standard on 'EH' 235 model  
 Optional on 'EH' 225A model only

**ENGINE**

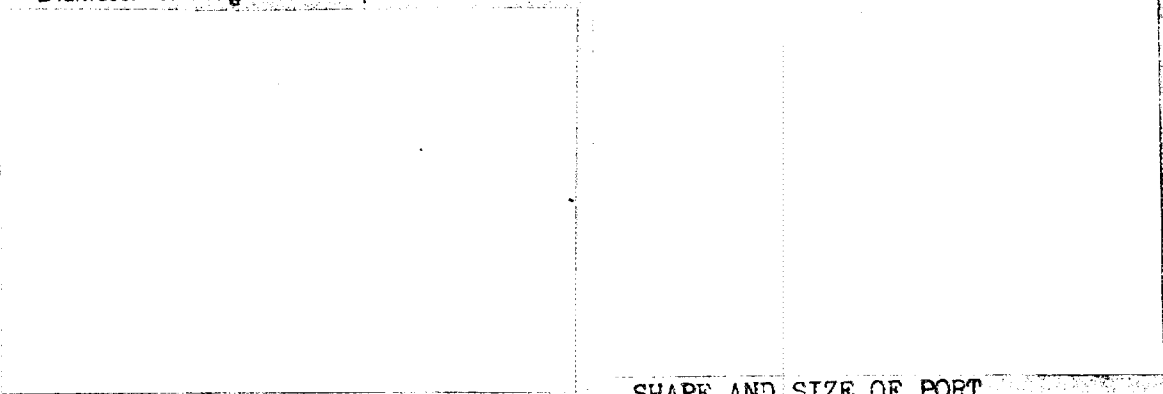
		In line	Yes		
No. of cylinders	6	in V	-		
		opposed	-		
Cycle	4-stroke (Otto cycle)	Firing order	1-5-3-6-2-4		
Capacity	2930 c.c.	Bore	90.50 m.m.	Stroke	76.2 m.m.
Maximum rebore	91.52	Resultant capacity	3007		c.c.
Material of cylinder block	Cast Iron	Material of sleeves, if fitted	-		
Distance from crankshaft centre line to top face of block at centre line of cylinders			217.705 (Nom.)		m.m.
Material of cylinder head	Cast Iron	Volume of one combustion chamber	53.544 ± 1		c.c.
Compression ratio	8.8 to 1				
Material of piston	Aluminium Alloy	No. of piston rings	Three		
Distance from gudgeon pin centre line to highest point of piston crown			45.72		m.m.
Bearings	Crankshaft main bearings: Type Precision Removable	Di.	55.88		m.m.
		Connecting rod big end: Type Precision Removable	Di.	48.29	
Weights	Flywheel and Ring Gear	kg.	10.43		
	Crankshaft	kg.	20.40		
	Connecting rod Assy & Nuts & Bolts	kg.	0.49		
	Piston with rings	kg.)	0.65		
	Gudgeon pin	kg.)			
No. of valves per cylinder	Two	Method of valve operation	Push rods & rocker arms		
No. of camshafts	One	Location of camshafts	Crank case at top R.H. side		
Type of camshaft drive	Gear				
Diameter of valves:	Inlet 37.92 (Nom.)	m.m.	Exhaust 32.410 (Nom.)		m.m.
Diameter of port at valve seat:	Inlet 34.80 (Nom.)	m.m.	Exhaust 28.22 (Nom.)		m.m.
Tappet clearance for checking timing:	Inlet Zero	m.m.	Exhaust Zero		m.m.
Valves open:	Inlet *15° BTC & 35 BTC		Exhaust * 50 BBC & 70° BBC		
Valves close:	Inlet *45° ABC & 75 ABC		Exhaust * 10° ATC & 40° ATC		
Maximum valve lift:	Inlet 8.585	m.m.	Exhaust 8.585		m.m.
Degrees of crankshaft rotation from zero to—	* without ramps	% with ramps			
Maximum lift:	Inlet 105°		Exhaust 250°		
‡ Maximum lift:	Inlet 57°		Exhaust 202°		
Valve springs:		Inlet		Exhaust	
Type	Coil		Coil		
No. per valve	One		One		
Carburettor: Type	Downdraft		No. fitted	One	
	(up or down draft, horizontal)				
	BENDIX-STROMBERG		Model	BXV-2	
	Choke diameter 36.58	m.m.	Choke diameter	29.36	m.m.
	Jetification No. 1358, 1059 or other, as determined by carburettor manufacturer to meet Holden flow curve specification.				

6-cylinder engine - Standard on GH/215 and GH/225 models

ENGINE

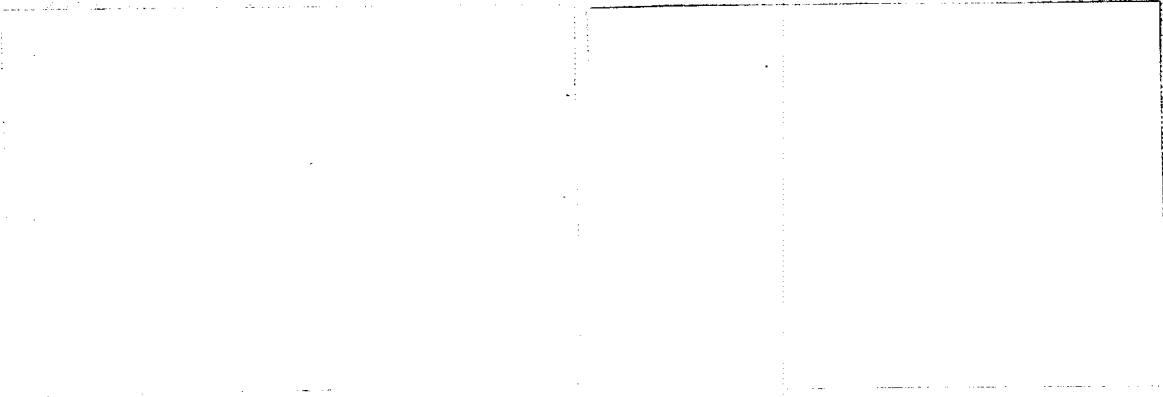
In line Yes  
 No. of cylinders 6 In V -  
 opposed -  
 Cycle 4-stroke (Otto cycle) Firing order 1-5-3-6-2-4  
 Capacity 2440 c.c. Bore 82.55 m.m. Stroke 76.2 m.m.  
 Maximum rebore 83.56 Resultant capacity 2507 c.c.  
 Material of cylinder block Cast Iron Material of sleeves, if fitted -  
 Distance from crankshaft centre line to top face of block at centre line of cylinders 217.705 (Nom.) m.m.  
 Material of cylinder head Cast Iron Volume of one combustion chamber 45.37 ± 1 c.c. (8.8:1)  
 Compression ratio 8.8:1 standard 7.7:1 optional 53.544 ± 1 (7.7:1)  
 Material of piston Aluminium Alloy No. of piston rings Three  
 Distance from gudgeon pin centre line to highest point of piston crown 45.72 m.m.  
 Bearings { Crankshaft main bearings: Type Precision Removable Dia. 55.88 m.m.  
 Connecting rod big end: Type Precision Removable Dia. 48.29 m.m.  
 Weights { Flywheel and ring gear kg. 10.43  
 Crankshaft kg. 20.40  
 Connecting rod Assy & Nuts & Bolts kg. 0.49  
 Piston with rings kg.) 0.548  
 Gudgeon pin kg.)  
 No. of valves per cylinder Two Method of valve operation Push rods & Rocker arms  
 No. of camshafts One Location of camshafts Crankcase at top R.H. side  
 Type of camshaft drive Gear  
 Diameter of valves: Inlet 37.92 (Nom.) m.m. Exhaust 32.410 (Nom.) m.m.  
 Diameter of port at valve seat: Inlet 34.80 (Nom.) m.m. Exhaust 28.22 (Nom.) m.m.  
 Valve clearance for checking timing: Inlet Zero m.m. Exhaust Zero m.m.  
 Valves open: Inlet \* 15° BTC % 35 BTC Exhaust \* 50° BBC % 70° BBC  
 Valves close: Inlet \* 45° ABC % 75 ABC Exhaust \* 10° ATC % 40° ATC  
 Maximum valve lift: Inlet 8.585 m.m. Exhaust 8.585 m.m.  
 Degrees of crankshaft rotation from zero to \* without ramps % with ramps  
 Maximum lift: Inlet 105° Exhaust 250°  
 Maximum lift: Inlet 57° Exhaust 202°  
 Springs: Inlet Coil Exhaust Coil  
 Type Coil No. per valve One  
 Carburettor Type Downdraft No. fitted One  
 (up or down draft, horizontal)  
BENDIX-STROMBERG Model BXUV-2  
 Inlet diameter 33.27 m.m. Choke diameter 27.79 m.m.  
 Throat diameter 25.7 or other, as determined by Carburettor  
 Manufacturer to meet Holden flow curve specification.

Air filter: Type AC Fluid treated paper element No. fitted One  
 Inlet manifold: 36.373 (179 cu.in. Engine)  
 Diameter of flange hole at carburettor 33.528 (149 cu.in. Engine) m.m.  
 Diameter of flange hole at port Length 52.892 x Width 35.052 Radius 9.144 m.m.



SHAPE AND SIZE OF PORT

Exhaust manifold:	Ports Each	33.528x36.068	Centre	84.328x33.528
	End	with Radius	Ports	with Radius
Diameter of flange hole at port		Corners 11.176	(2)	Corners 11.176 m.m.
Diameter of flange hole at connection to silencer inlet pipe				41.656 (Cast) m.m.



ENGINE ACCESSORIES

Make of fuel pump A.C. No. fitted One  
 Method of operation Driven From Camshaft  
 Type of ignition system Coil coil or magneto  
 Make of ignition Distributor Bosch or Lucas Model U-ZV/PDU6R1 or 29D6  
 Method of advance and retard Vacuum and Centrifugal  
 Make of ignition coils Bosch or Lucas Model U-OK12N6-5 or 8C12  
 No. of ignition coils One Voltage 12  
 Make of distributor Bosch or Lucas Model LJ/GG200/12/1800 FR23 or C40/LQ  
 Maximum output 25 amps.  
 a. EED 0.8/12 R52 or M35G  
 Model b. AL/BGF 1/12 R13 or M40  
 Capacity 44 amp. hour  
 a. 149 cu.in. Engine  
 b. 179 cu.in. Engine.

Make HOLDEN Model EH F.I.A. Recognition No. \_\_\_\_\_  
 Manufacturers Reference No. of Application \_\_\_\_\_

**TRANSMISSION**

Make of clutch Own Type Diaphragm Spring Dry Plate  
 Diameter of clutch plate 20.32 c.m. No. of plates One  
 Method of operating clutch Hydraulic Linkage  
 Make of gearbox Own (Man.) or Hydra-Matic (Auto) Type \* 3-speed synchro mesh (Man.)  
 No. of gearbox ratios \* 3 Forward, 1 reverse  
 Method of operating gearshift Remote - Manual Shift Lever  
 Location of gearshift Mounted on Steering column  
 Overdrive fitted? No  
 Method of controlling overdrive, if fitted \_\_\_\_\_

	GEARBOX RATIOS		Automatic Transmission		ALTERNATIVE RATIOS			
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1	2.99	$\frac{17}{20} \times \frac{13}{33}$	3.5133	to				
2	1.59	$\frac{17}{20} \times \frac{17}{23}$	2.9333					
3	Direct		1.5758					
4			Direct					

Make of final drive Spiral Hypoid  
 Type of differential Two Pinion  
 Final drive ratio 3.36:1 215 & 225 models Alternatives 3.55:1 Optional 215 & 225 models  
3.55:1 235 models Alternatives 3.36:1 Optional 235 models  
 No. of teeth 39 Ring Gear, 11 Pinion (3.55:1) 37 Ring Gear, 11 Pinion (3.36:1)  
 Overdrive ratio, if fitted \_\_\_\_\_

Clutch Spoke Disc Weight 5.6238 kg.  
 Attachment 5 Bolts 7/16 in. - 20 UNF 2A Thread  
 Diameter 330.2 m.m. Rim width 114.3 m.m.  
 Diameter Front 6.40-13 inch Rear 6.40 - 13 inch

Method of operation Hydraulic  
 Self-lubricating? No

Bore 25.40 m.m.  
 \* (Automatic Transmission, controlled coupling  
 with planetary gear system for  
 forward motion and one reverse.)

	Front		Rear
No. of wheel cylinders	One		One
Bore of wheel cylinders	25.4 m.m.		20.64 m.m.
Inside diameter of brake drums	228.6 (Nom.) m.m.		228.6 (Nom.) 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	Primary 199.4 Max. m.m.		Primary 199.4 Max. m.m.
	Secondary 227.6 " m.m.		Secondary 227.6 " m.m.
Width	44.45 Max. m.m.		44.45 Max. m.m.
	15322.6 Max. m.m. <sup>2</sup>		15322.6 Max. m.m. <sup>2</sup>
Total area per brake			

	Front		Rear
Type	Independant, Short & Long Arm		Hotchkiss - Rigid Rear Axle
Type of spring	Coil		Semi-Elliptic
Is stabiliser fitted?	Yes		No
Type of shock absorber	Direct Acting		Direct Acting
No. of shock absorbers	Two		Two

#### STEERING

Type of steering gear	Recirculating Ball
Turning circle of car	11.125 m., approx.
No. of turns of steering wheel from lock to lock	3.28

#### CAPACITIES AND DIMENSIONS

Fuel tank	43.18 litres	Sump	3.4 litres
Radiator	EH/215 EH/225 M 8.86 A 8.64	EH/235	9.32 with heater
Overall length of car	451.104 cm.	Overall width of car	172.72 cm.
Overall height of car, unladen (with hood up, if appropriate)	147.828 cm.		

Distance from floor to top of windscreen:

Highest point 88.4(A) 89.4(M) cm. Lowest point 98.0(A) 100.6(M) cm.

Width of windscreen:

Maximum width 137.16 cm. Minimum width 126.4 cm.

Interior width of car 134.6 cm.

No. of seats 6

Track: Front 138.4 cm. Rear 138.4 cm.

Wheelbase 266.7 cm. Ground clearance 182.88 m.m.

To be measured at the immediate rear of the steering wheel, and the width quoted to be maintained at all times of not less than 25 cms.)

Weight with water, oil and spare wheel, but without fuel % kgs.

6	%	EH/215M	1085.9
		EH/225M	1087.7
		EH/225A	1122.2
		EH/235A	1153.0



**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.<sup>2</sup>

**Size of exhaust port:**

Length measured around cylinder wall.....m.m.

Height.....m.m. Area.....m.m.<sup>2</sup>

**Size of transfer port:**

Length measured around cylinder wall.....m.m.

Height.....m.m. Area.....m.m.<sup>2</sup>

**Size of piston port:**

Length measured around piston.....m.m.

Height.....m.m. Area.....m.m.<sup>2</sup>

**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.....

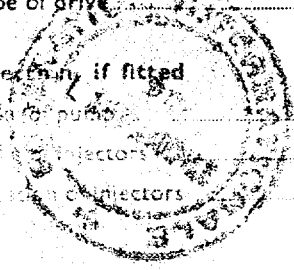
Type of drive..... Ratio of drive.....

**Fuel injection, if fitted**

Make of pump..... Model or Type No.....

No. of injectors..... Model or Type No.....

No. of connectors.....





Optional equipment affecting preceding information.

