

F.I.A. Recognition No .. 5290

Group

FEDERATION INTERNATIONALE DE L' AUTOMOBILE

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

Manufacturer	A. B. VOLVO	Cylinder-capacity	1986	.....cm3	121,2	..in3
Serial No of chassis	312500	Model	122 S			
engine	1	Manufacturer	A. B. VOLVO			
Recognition is valid from	1/4/1969	Manufacturer	A. B. VOLVO			
		List	69/2			

The manufacturing of the model described in this recognition form was started on 15.8.1968 and the minimum production of 5.000 identical cars, in accordance with the specifications of this form was reached on 26.2.1969

Photograph A, 3/4 view of car from front



The vehicle described in this form has been subject to the following amendments

Variants

Normal evolution of the type

on	19..	rec.No	.....	List	.....	on	19..	rec.No	.....	List	.....
on	19..	rec.No	.....	List	.....	on	19..	rec.No	.....	List	.....
on	19..	rec.No	.....	List	.....	on	19..	rec.No	.....	List	.....
on	19..	rec.No	.....	List	.....	on	19..	rec.No	.....	List	.....
on	19..	rec.No	.....	List	.....	on	19..	rec.No	.....	List	.....

Stamp and signature of the
National Sporting Authority

Stamp and signature of the F.I.A.

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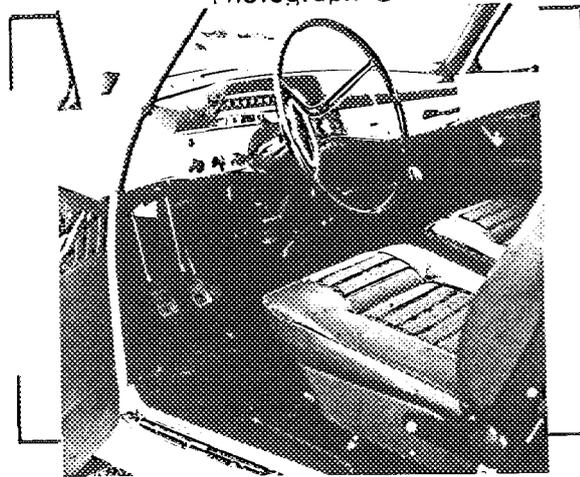
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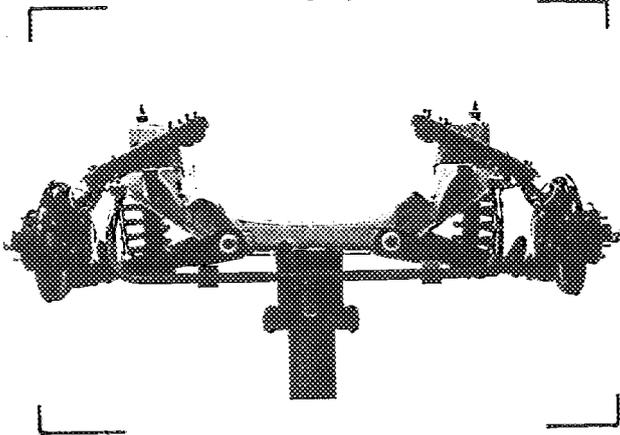
Photograph B



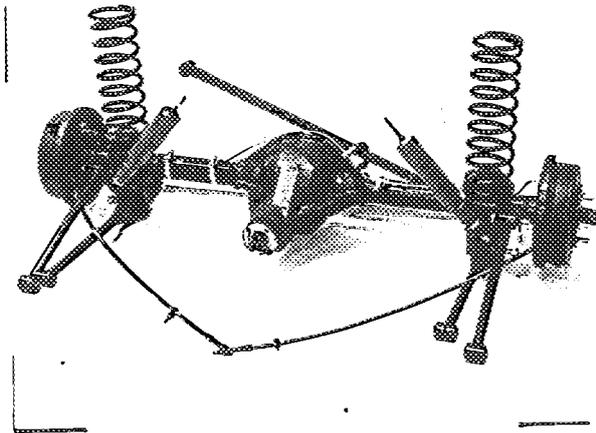
Photograph C



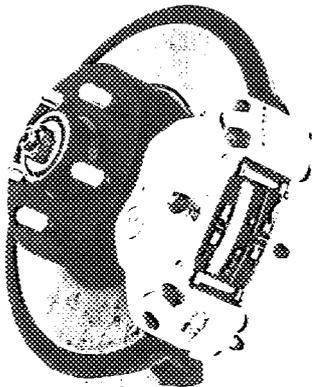
Photograph D



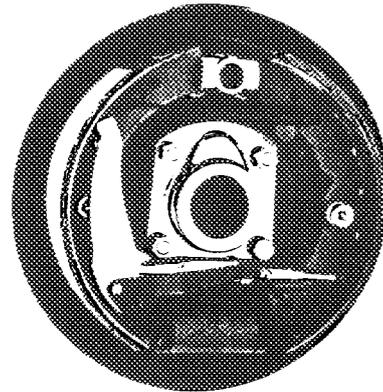
Photograph E



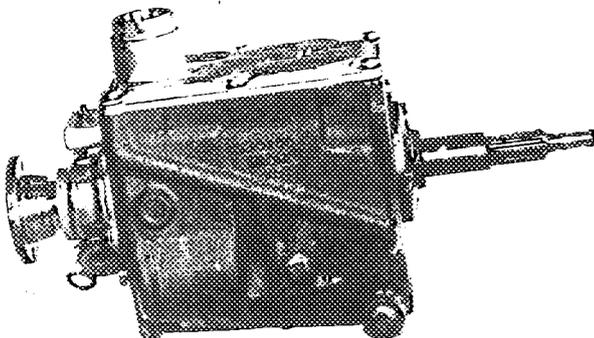
Photograph F



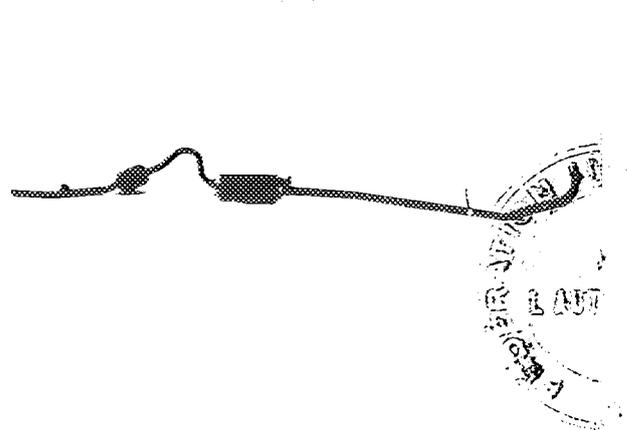
Photograph G



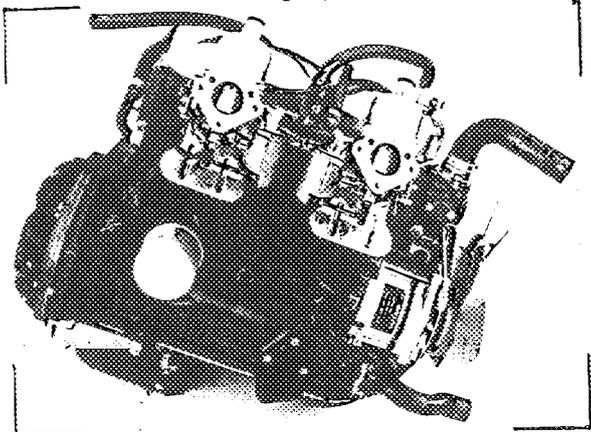
Photograph H



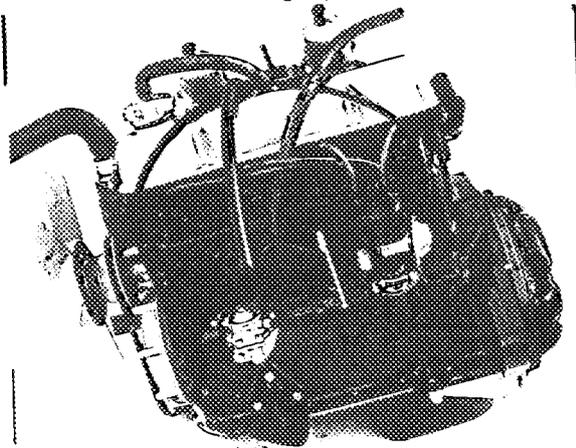
Photograph I



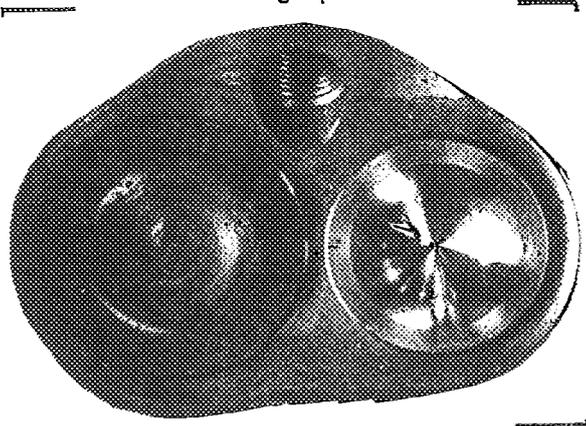
Photograph J



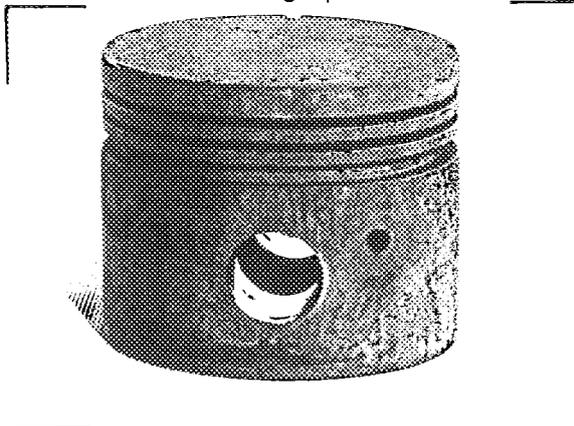
Photograph K



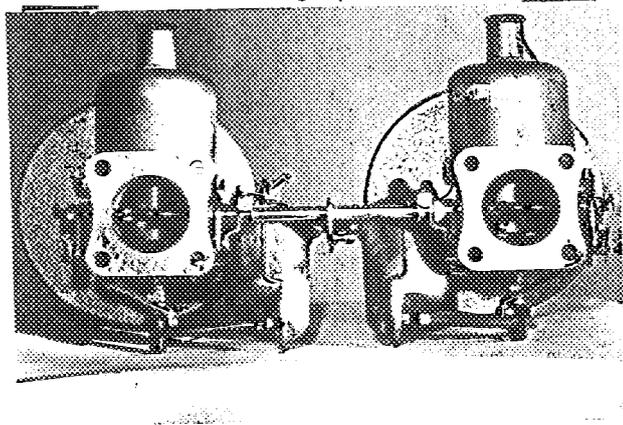
Photograph L



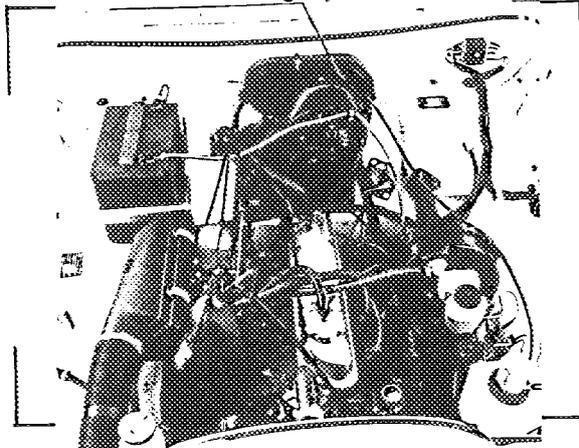
Photograph M



Photograph N

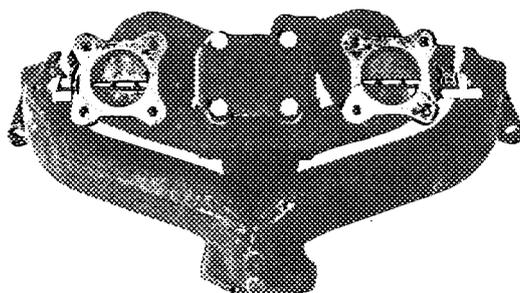


Photograph O



Photograph P

inlet manifold



Photograph Q

old

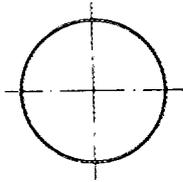


Make **VOLVO**

Model **1225**

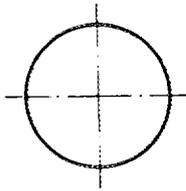
F.I.A. Rec.No

Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



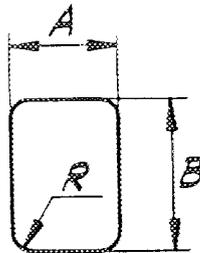
$$\varnothing 36 \pm 0,25$$

Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



$$\varnothing 36 \pm 0,25$$

Drawing exhaust manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.

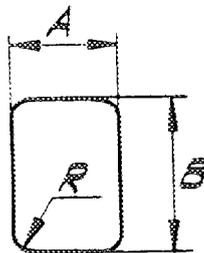


$$A = 27 \pm 0,7$$

$$B = 40 \pm 0,7$$

$$R = 5 \pm 0$$

Drawing of exit to exhaust port of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



$$A = 25 \pm 0,7$$

$$B = 38 \pm 0,7$$

$$R = 4 \pm 0$$



CHASSIS AND COACHWORK (Photographs A, B and C)

20. Chassis/body construction : ~~separate~~ / unitary construction

21. Unitary construction, material (s) *STEEL*

Separate construction

22. Material (s) of chassis _____ *STEEL*

23. Material (s) of coachwork

24. Number of doors *2* Material (s) *SHEET METAL*

25. Material (s) of bonnet _____ *SHEET METAL*

26. Material (s) of boot lid _____ *SHEET METAL*

27. Material (s) of rear-window _____ *TEMPERED GLASS*

28. Material (s) of windscreen _____ *LAMINATED GLASS*

29. Material (s) of front-door windows *TEMPERED GLASS*

30. Material (s) of rear-door windows

31. Sliding system of door windows _____ *WINDOW WINDERS*

32. Material (s) of rear-quarter light _____ *TEMPERED GLASS*

ACCESSORIES AND UPHOLSTERY

38. Interior heating : yes - ~~no~~

39. Air-conditioning : ~~yes~~ - no

40. Ventilation : yes - ~~no~~

41. Front seats, type of seat and upholstery *SEPARATE SEATS, CLOTH AND VINYL*

42. Weight of front seat (s), complete with supports and rails, out of the car :

14,6 kg

lbs

43. Rear seats, type of seat and upholstery *BENCH, CLOTH AND VINYL*

44. Front bumper, material (s) *CHROME-PLATED STEEL* Weight *9,6* kg lbs

45. Rear bumper, material (s) *CHROME-PLATED STEEL* Weight *9,6* kg lbs

WHEELS

50. Type *DISC WHEELS*

51. Weight (per wheel, without tyre) *6,9* kg lbs

52. Method of attachment *WITH 5 NUTS*

53. Rim diameter *381* mm *15* inches

54. Rim width *101* mm *4* inches

STEERING

60. Type *CAM AND ROLLER*

61. Servo-assistance : ~~yes~~ - no

62. Number of turns of steering wheel from lock to lock *3,25*

63. In case of servo-assistance



SUSPENSION

- 70. Front suspension (photogr. D), type *INDIVIDUAL*
- 71. Type of spring *COIL*
- 72. Stabiliser (fitted) *YES*
- 73. Number of shockabsorbers *TWO*
- 74. Type *TELESCOPIC*
- 78. Rear suspension (photogr. E), type *RIGID AXLE*
- 79. Type of spring *COIL*
- 80. Stabiliser (if fitted) *—*
- 81. Number of shockabsorbers *TWO*
- 82. Type *TELESCOPIC*

BRAKES (photographs F and G)

- 90. Method of operation *HYDRAULIC, SPLIT CIRCUIT SYSTEM*
- 91. Servo-assistance (if fitted), type *VACUUMSERVO*
- 92. Number of hydraulic master cylinders *TANDEM MASTER CYLINDER*

	FRONT		REAR	
93. Number of cylinders per wheel	<i>4</i>		<i>2</i>	
94. Bore of wheel cylinder (s)	<i>4 x 36</i> mm	in.	<i>2 x 36</i> mm	in.
Drum brakes				
95. Inside diameter	mm	in.	mm	in.
96. Length of brake linings	mm	in.	mm	in.
97. Width of brake linings	mm	in.	mm	in.
98. Number of shoes per brake				
99. Total area per brake	mm ²	sq.in.	mm ²	sq.in.
Disc brakes				
100. Outside diameter	<i>272</i> mm	in.	<i>295</i> mm	in.
101. Thickness of disc	<i>12,8</i> mm	in.	<i>9,6</i> mm	in.
102. Length of brake linings	<i>75</i> mm	in.	<i>57</i> mm	in.
103. Width of brake linings	<i>50</i> mm	in.	<i>42,5</i> mm	in.
104. Number of pads per brake	<i>2</i>		<i>2</i>	
105. Total area per brake	<i>7.300</i> mm ²	sq.in.	<i>4550</i> mm ²	sq.in.



ENGINE (photographs J and K)

- 130. Cycle **4-STROKE**
- 131. Number of cylinders **4**
- 132. Cylinder arrangement **IN LINE**
- 133. Bore **88,9 ± 0,01** mm in.
- 134. Stroke **80,0 ± 0,01** mm in.
- 135. Capacity per cylinder **496,6** cm3 **30,3** cu.in.
- 136. Total cylinder-capacity **1986** cm3 **121,2** cu.in.
- 137. Material (s) of cylinder block **CAST IRON**
- 138. Material (s) of sleeves (if fitted)
- 139. Cylinder-head, material (s) **CAST IRON** Number fitted
- 140. Number of inlet ports **4**
- 141. Number of exhaust ports **4**
- 142. Compression ratio **9,2:1**
- 143. Volume of one combustion chamber **52,0** cm3 cu.in.
- 144. Piston, material **LIGHT ALLOY**
- 145. Number of rings **3**
- 146. Distance from gudgeon pin centre line to highest point of piston crown
46 ± 0,1 mm inches
- 147. Crankshaft : ~~mounted~~ / stamped
- 148. Type of crankshaft : integral /
- 149. Number of crankshaft main bearings **5**
- 150. Material of bearing cap **CAST IRON**
- 151. System of lubrication : ~~dry sump~~ / oil in sump
- 152. Capacity, lubricant **3,75** ltrs pts quarts US
- 153. Oil cooler: ~~yes~~ / no
- 154. Method of engine cooling **WATER**
- 155. Capacity of cooling system **8,6** ltrs pints quarts US
- 156. Cooling fan (if fitted), dia. **36** cm **14** inches
- 157. Number of blades of cooling fan **5**

Bearings

- 158. Crankshaft main, type Dia. **63,45** mm **COPPER-LEAD-INDIUM** ^{TRA.}
- 159. Connecting rod big end, type Dia. **54,1** mm **COPPER-LEAD-INDIUM** ^{TRA.}

Weights

- 160. Flywheel (clean) **9,9** kg lbs
- 161. Flywheel with clutch (all turning parts) **15,9** kg lbs
- 162. Crankshaft **16,7** kg lbs
- 163. Connecting rod **0,680** kg lbs
- 164. Piston with rings and pin **0,710** kg lbs



Make *VOLVO*

Model *1225*

F.I.A. Rec.No

FOUR STROKE ENGINES

- 170. Number of camshafts *1*
- 171. Location *CYLINDER BLOCK*
- 172. Type of camshaft drive *GEARS*
- 173. Type of valve operation *PUSH ROD*

INLET (see page 4)*

- 180. Material (s) of inlet manifold *CAST IRON*
- 181. Diameter of valves *40* mm *1,58* inches
- 182. Max. valve lift *10,2* mm *0,40* in.
- 183. Number of valve springs *1*
- 184. Type of spring *COIL*
- 185. Number of valves per cylinder *1*
- 186. Tappet clearance for checking timing (cold) *1,44* mm inches
- 187. Valves open at (with tolerance for tappet clearance indicated) *0° T.D.C.*
- 188. Valves close at (with tolerance for tappet clearance indicated) *40° A.B.D.C.*
- 189. Air filter, type *PAPER*

EXHAUST (see page 4)

- 195. Material (s) of exhaust manifold *CAST IRON*
- 196. Diameter of valves *35* mm *1,38* inches
- 197. Max. valve lift *10,2* mm *0,40* in.
- 198. Number of valve springs *1*
- 199. Type of spring *COIL*
- 200. Number of valves per cylinder *1*
- 201. Tappet clearance for checking timing (cold) *1,44* mm inches
- 202. Valves open at (with tolerance for tappet clearance indicated) *40° B.B.D.C.*
- 203. Valves close at (with tolerance for tappet clearance indicated) *0° A.T.D.C.*

CARBURETION (photograph N)

- 210. Number of carburetors fitted *2*
- 211. Type *HORIZONTAL*
- 212. Make *SU*
- 213. Model *HS-6*
- 214. Number of mixture passages per carburettor *1*
- 215. Flange hole diameter of exit port (s) of carburettor *44,5* mm *1 3/4* in.
- 216. Minimum diameter of venturi / minimum diam. with piston at maximum height

mm

inches

INJECTION (if fitted)

- 220. Make of pump
- 221. Number of plungers
- 222. Model or type of pump
- 223. Total number of injectors
- 224. Location of injectors
- 225. Minimum diameter of inlet pipe mm inches

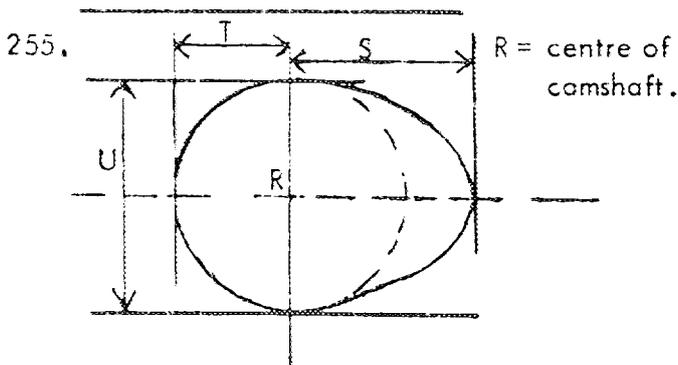


ENGINE ACCESSORIES

- 230. Fuel pump : mechanical ~~and/or electric~~
- 231. No fitted 1
- 232. Type of ignition system COIL
- 233. No of distributors 1
- 234. No of ignition coils 1
- 235. No of spark plugs per cylinder 1
- 236. Generator, type : ~~dynamo~~ / alternator - number fitted 1
- 237. Method of drive BELT DRIVEN
- 238. Voltage of generator 12 volts
- 239. Battery, number 1
- 240. Location ENGINE COMPARTMENT, LEFT FRONT
- 241. Voltage of battery 12 volts

ENGINE AND CAR PERFORMANCES (as declared by manufacturer in catalogue)

- 250. Max. engine output 118 (type of horsepower: SAE) at 5.800 rpm
- 251. Maximum rpm 5.800 output at that figure 118 SAE
- 252. Maximum torque 17,0 ~~kgm~~ SAE 3.500 rpm
- 253. Maximum speed of the car km/hour miles/hour



<u>Inlet cam</u>			
S =	<u>21,3</u>	mm	<u>0,839</u> inches
T =	<u>14,6</u>	mm	<u>0,575</u> inches
U =	<u>29,418</u>	mm	<u>1,158</u> inches
<u>Exhaust cam</u>			
S =	<u>21,3</u>	mm	<u>0,839</u> inches
T =	<u>14,6</u>	mm	<u>0,575</u> inches
U =	<u>29,418</u>	mm	<u>1,158</u> inches



Make *VOLVO*

Model *122 S*

F.I.A. Rec.No

DRIVE TRAIN
CLUTCH

260. Type of clutch *DRY DISC*

261. No of plates *1*

262. Dia. of clutch plates *21,6* cm

inches

263. Dia. of linings, inside *14,0* cm

in. outside *21,6* cm in.

264. Method of operating clutch *MECHANICAL*

GEAR BOX (photograph H)

270. Manual type, make *VOLVO M40*

Method of operation

271. No of gear-box ratios forward *4*

272. Synchronized forward ratios *4*

273. Location of gear-shift *CENTRE FLOOR LEVER*

274. Automatic, make type

275. No of forward ratios

276. Location of gear-shift

277.	Manual		Automatic		Alternative manual/automatic			
	Ratio	No teeth	Ratio	No teeth	Ratio	No teeth	Ratio	No teeth
1	<i>3,13:1</i>	<i>33:15</i>						
2	<i>1,99:1</i>	<i>28:20</i>						
3	<i>1,36:1</i>	<i>22:23</i>						
4	<i>1:1</i>							
5								
6								
reverse	<i>3,25:1</i>	<i>32:19</i>						

278. Overdrive, type

279. Forward gears on which overdrive can be selected

280. Overdrive ratio

FINAL DRIVE

290. Type of final drive *HYPOID*

291. Type of differential *RIGID AXLE*

292. Type of limited slip differential (if fitted)

293. Final drive ratio *4,1:1* *4,56:1*

Number of teeth *41:10* *41:9*

