

Telephone: (203) 348-6233

Cable Address: "ACCUSFIA" Stamford, Conn.

AUTOMOBILE COMPETITION COMMITTEE FOR THE UNITED STATES, FIA. INC. 433 MAIN STREET, STAMFORD, CONN. 06901

Federation Internationale de l'Automobile



STANDARD CERTIFICATE OF PRODUCTION In accordance with Appendix $^{\prime\prime}J^{\prime\prime}$ of the International Sporting Code

Nexe	of	Manufa:	sturer LINCO	IN-MERCURY DI	IVISION, I	FORD MOTOR	COMPANY	
Make	or	Car	Mercu	ry	Model	1969 Cyclo	ne 428	
Wa ce	rti	fy that	10,000	cars identica	l with th	e basic spe	eification,	, 8 .5
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				were comple				\$
Cars	002	forming	to this sp	ecification m	ay be ide	ntified by	chassis num	abers
9_01	500	0001	9	and engine n	nmbers	None		3
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JOHN VACAUSEAULA, TECHNICAL DIRECTOR ACCUS, PLA. INC.



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AUTOMOBILE COMPETITION COMMITTEE FOR THE UNITED STATES, FIA, INC. 433 MAIN STREET, STAMFORD, CONN. 06901

Federation Internationale de l'Automobile FORM OF RECOGNITION

In accordance with Appendix "J" of the International Sporting Code

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CONVERSION TABLE:

1	inch / pouce	2,54	C m	
1	foot / pied	30.479		
1	square inch / pouce carre	6.452		
1	cubic inch / pouce cube	16.387		
	pound (lb.) / livre	453,593	gr	
	pint (U.S.)	.473	ltrs	.833 pt. Imp.
	quart (U.S.)	.946	ltrs	.833 qt. Imp.
	gallon (U.S.)	3,785	ltrs	.833 gal.Imp.
	pint (Imp.)	, 568	ltrs	1.20 pt. U.S.
1	quart (Imp.)	1.136	ltrs	1.20 qt. U.S.
1	gallon (Imp.)	4.546	ltrs	1.20 gal. U.S.

AUTOMOBILE COMPETITION COMMITTEE FOR THE UNITED STATES, FIA, INC.



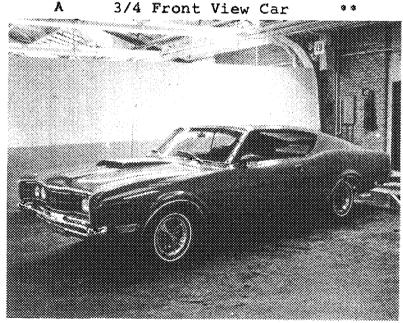
433 MAIN ST. STAMFORD, CONN. 06901 (203) 348-6233

 $\frac{Federation\ Internationale\ de\ l'Automobile}{FORM\ OF\ RECOGNITION}$ In accordance with Appendix "J" of the International Sporting Code

	Cylinder capacity Lincoln Mercury Division		n3 <u>427.36</u> in3
Manufacturer _	Ford Motor Company	Model <u>1969 C</u>	yclone 428
Serial # Chass	sis ⁹ 0 1 500001	Manufacturer	Lincolm Division Ford Motor Company
Serial # Engir	ne none	Manufacturer	Lincoln Mercury Division Ford Motor Company
Recognition va	alid from	List	
was started or identical cars	ring of the model description Aug. 19, 1968 and the model of the model of the model description and the model description are also as a second and the model of the model of the model of the model of the model description are also as a second and the model of the model description are also as a second are a second are also as a second are also as a second are a second ar	minimum produc he specificati	rtion of 10 coo
(*) need not	be answered for Group	II and III car	îs,

*) only need to be answered for Group IV cars.





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

Variants		Normal evolution	on of the type
on 19 rec on 19 rec on 19 rec	# list # list # list	on 19 rec on 19 rec on 19 rec	# list # list
	T LUC	on19rec	# TTPL

Stamp/Signature of National Sporting Authority

JOHN V. OLIVEAU TECHNICAL DIRECTOR ACCUS, FLA. INC.

Stamp/Signature F.I.A.

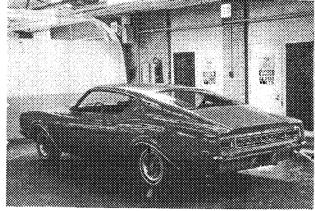
1. 4. 69

B 3/4 rear car

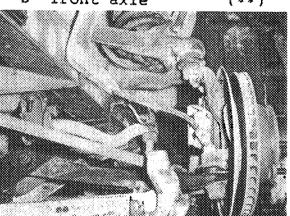


C interior-car (**)

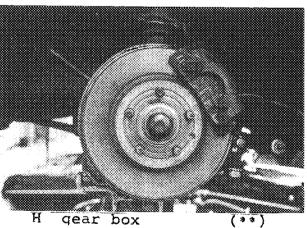


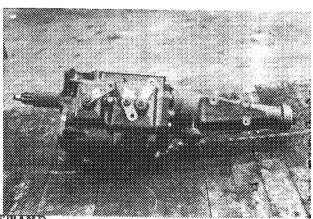


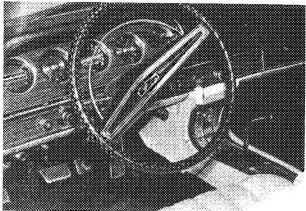
front axle



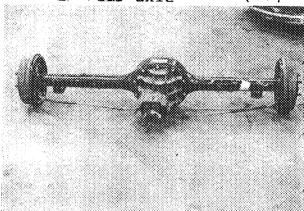
brake, front





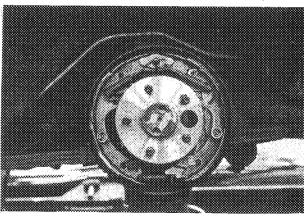


rear axle

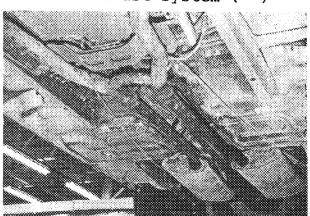


G brake, rear

(* *)



exhaust system (*)

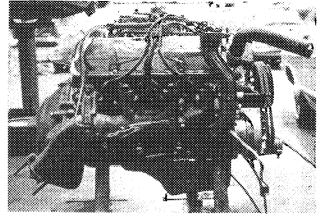


STAMP

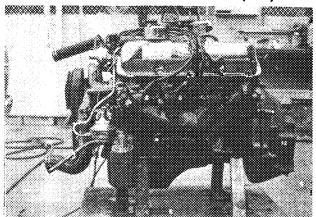
Mercury

ENGINE RIGHT

ENGINE LEFT



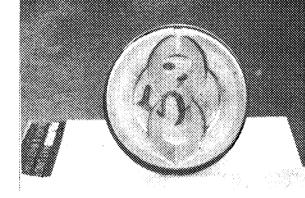
COMBUSTION CHAMBER



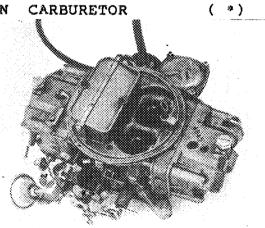
PISTON TOP



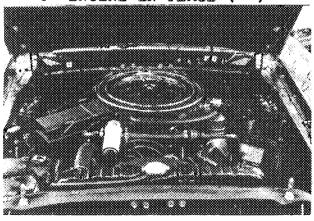
CARBURETOR



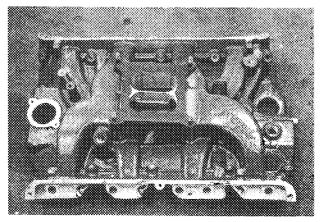
ENGINE IN PLACE (**)



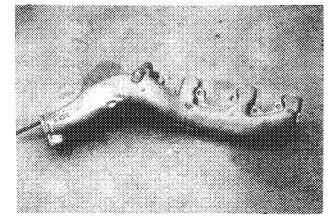
MANIFOLD INLET



MANIFOLD EXHAUST

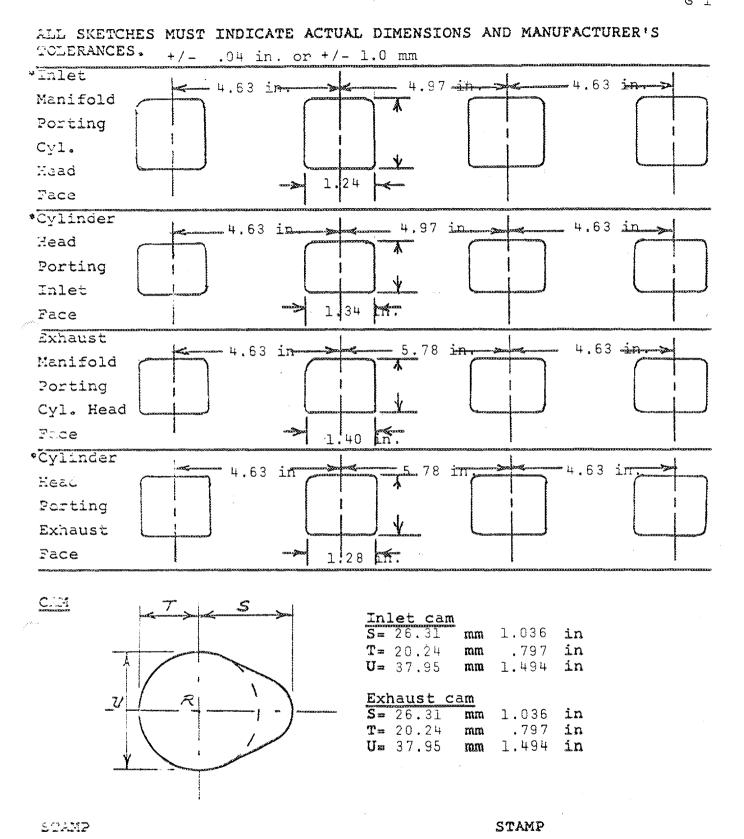


Strip out: STAMP



ALL SKETCHES MUST INDICATE ACTUAL DIMENSIONS AND MANUFACTURER'S TOLERANCES.

STAMP



MAKE Mercury

IMPORTANT: Questions 1 through 9 must be answered in two measuring systems, one of which must be the metric system.

See conversion table at index.

CAPACITIES & DIMENSIONS

(**) l. Wheelbase

2946.4 mm 116.0 in

(**) 2. Front track

1493.5 mm 58.8 in + at 0° camber

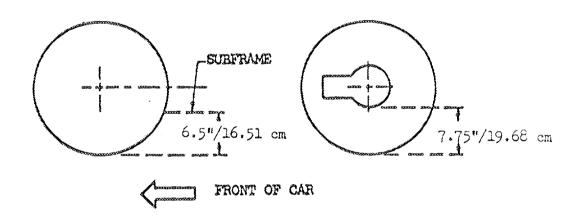
(**) 3. Rear track

1485.9 mm 58,5 in + 0" toe-in

* Differences in track resulting from use of optional wheel and rim sizes must be stipulated on recognition application forms.

Dimensional relationship between track (front and/or rear) and ground clearance resulting from use of optional wheel sizes shall also be stipulated and a sketch illustrating suspension reference points shall be shown below to establish the "reference chassis height." The reference chassis height dimension is to be used only when checking track and shall not affect eligibility of car in any manner.

Sketch, Ground Clearance: Dimensional Suspension & Chassis Reference Points"



*** NOTE: Geometry changes in front suspension will alter track.

4. Overall length of car

516.13 cm 203.2 in

5. Overall width of car

193.04 cm 76.0 in

6. Overall height of car

133.60 cm 52.6 in

7. Capacity of fuel tank (reserve included)
20 gallons US

75.70 ltrs. qallons. Imp.

8. Seating capacity

four (4)

(**) 9. Weight - total weight of car with normal equipment, water, oil and spare wheel but without fuel or repair tools.

1460.1 kg 3219 lbs

STAMP

CHASSIS & BODYWORK - Photos A, B, C

- (**) 20. Chassis/body construction separate/unit construction
- (**) 21. Unit construction material/s Sheet Steel
- (**) 22. Chassis material/s steel separate construction
- (**) 23. Body material/s Steel separate construction
- (**) 24. Doors number wo(2) material/s steel
- (**) 25. Hood material/s steel
- (**) 26. Trunk Lid = material/s steel
 - 27. Window, Rear material/s glass
 - 28. Windshield material/s glass
 - 29. Windows, front door material/s glass
 - 30. Windows, rear door material/s none
 - 31. Windows actuating system regulator
 - 32. Window, rear quarter material/s glass

ACCESSORIES AND UPHOLSTERY

- 38. Heating, interior yes no optional
- 39. Air conditioning yes no optional
- 40. Ventilation yes no
- (*) 41. Seats, front type of seat and upholstery Bucket/Vinyl
 - 42. Seats, front weight (complete with supports & rails out of car)14.8 kg 32.5 lbs ea.

 CHECK: BENCH X BUCKET CONSOLE INCLUDED Optional
 - 43. Seats, rear type of seat and upholstery Bench/Vinyl
 - 44. Bumper, front material/s steel kg 11.34bs 25.0 Weight
 - 45. Bumper, rear material/s steel kg 10.6 bs 23.5 Weight

WHEELS

- 50. Type steel
- 51. Weight (per wheel, without tire) 8.9kg 19.5 lbs
- 52. Method of attachment Stud and nut (5)
- t3. Rim, diameter 356/381 mm 34/15in
- 54. Rim, width 152/152 mm 6/6 in

STEERING

- co. Type recirculating ball and nut
- 61. Servo assistance optional
- 62. Number of turns of steering wheel from lock to lock 5.5
- 53. In case of servo assistance 4.0

SUSI	PENS	ION

(**)	70.	Suspension, front (photo D) - ty	pe	Indepe	ndent	
(**)	71.	Spring - type		Coil		
(*)	72.	Stabilizer - if fitted		Yes		
	73.	Shock absorbers - number		two (2)	
	74.	Туре		tubula	r-adjust	able
(* *)	78.	Suspension, rear (photo E) - typ	e	live	axyle	
(* *)	79.	Spring - type		leaf		
(*)	80.	Stabilizer - if fitted		no		
	81.	Shock absorbers - number		two (2		
	82.	Туре		tubula	r-adjust	able
: Januar	BRAK	ES (Photos E and F)				
(**)		Method of operation .		Hydrau	lic	
(*)	91.	Power assisted (if fitted) - type	oe	Pedal		
	92.	Master Cylinders - number and ty (indicate if duplex master cylin	ype nder)	one (1) dual Rear	
	93.	Cylinders - number per wheel		one (1)	one (1)	
	94.	Cylinders - wheel bore (indicate stepped bore dimension	60.2 ns if	mm 2,38 im2,2 applicable)	2mm .875	in
	Drum	n Brakes		Front	Rear	
	95.	Diameter, inside			$\frac{19.0}{2}$	
	96 。	Linings, length		211211	114144	ín ín in
	97.	Linings, width		mm in 50.8		in
	98.	Shoes - number per brake		24,9]		68
بيدير	99.	Area, total - per brake		mm2 in2	mm2	in2
	4	c Brakes	287	mm 11.3 in	mm	in
	100.	Diameter, outside		mm ±1.0 111		in

STAMP

23.81 mm .9375in

124.5 mm 4.9 in

52.6 mm 2.07in

13,097.4 mm2 7.12n2 20.2

two (2)

101. Thickness of disc

104. Pads - number per brake

105. Area, total - per brake

102. Lining - length

103. Lining - width

in

in

in

in2

mm

mm

mm

mm2

as at the comment of the comment of

ENGINE (Photos J and K)

- (**) 130. Cycle two four Wankel
- (**) 131. Cylinders number eight (8)
- (**) 132. Cylinders arrangement Vee Wankel # of elements and basic dimensions
- (**) 133. Bore 104.95 mm 4.132 in
- (**) 134. Stroke 101.19 mm 3.984 in
- (**) 135. Cylinders capacity 875.4 cm3 53.42 in3
- (**) 136. Cylinders, total capacity 7003.2cm3 427.36 in3
 - *) 137. Cylinder Block material/scast iron
- (* 138. Sleeves material/s (if fitted) none
- (**) 139. Head, cylinder material/s cast iron number fitted two (2)
- (**) 140. Port, inlet number eight (8)
- (**) 141. Port, exhaust number eight (8)
- (*) 142. Compression ratio 10.6:1
- (*) 143. Combustion chamber volume72.5cm3 4.424 in3
- (*) 144. Piston material/s aluminum alloy with steel struts
- (*) 145. Rings = number three (3)
- (*) 146. Distance from gudgeon pin centre line to highest point of piston crown 42.67 mm 1.680 in
- (**) 147. Crankshaft cast-forged-mach from solid
- (**) 148. Crankshaft type integral sectioned # of sections
- (**) 149. Crankshaft, main bearings number five (5)
- (**) 150. Bearing cap material/s cast iron
 - 151. Lubrication system dry sump/oil in sump
 - 152. Lubricant capacity 4.73 ltrs pts 5 qts US
- (*) 153. Cooler, oil yes no
 - 154. Cooling method water radiator
 - 155. Cooling capacity of system18.54 ltrs pts19.6 qts US
 STAMP
 STAMP

EXHAUST (See Photo Q)

- 195. Manifold, exhaust - material/s cast iron
- 196. Valves (overall) - diameter 42.16 in mm 1.660
- 197. Valve, lift - maximum 12.7 mm .500 in
- two (2) 198. Valve Springs/valve - number
- 199. Springs - type coil and flat
- (**) 200. Valves - number per cylinder one(1)
- Tappet clearance for checking timing (cold) Hydraulic (*) 201. mm in
- Valves open at (with tolerance for tappet 82° BBC (*) 202. clearance indicated)
- (*) 203. Valves - close at (with tolerance for tappet 28° ATC clearance indicated)

CARBURETION (See Photo N)

- 210. Carburetors, fitted - number one (1)
- 211. Type down flow
- *) 212. Make Holley
- (*) 213. 9510 Model
 - 214. Carburetors - number of mixture passages

none fitted

- Carburetor flange hole diameter of exit port (*) 215. mm7.6875 42.86
 - 216. Venturi - throat diameter+ 31.75 mm 1.25 PRLin 35.05 1.38 SEC

INJECTION

- 220. Pump - make
- 221. Plungers - number
- (*) 222. Pump - model
 - 223. Injectors - location
 - 224. Injectors - total number
- (*) 225. Inlet pipe - minimum diameter in mm
 - + For variable throat type carburetors, indicate minimum lift of shutter mechanism such as pistons in S.U. STAMP STAMP

- (*) 156. Fan, cooling (if fitted) diameter 46.35 cm 18.25 in
- (*) 157. Fan, cooling number of bladesseven (7)material/s steel
 BEARINGS
- (**) 158. Crankshaft, main typeinsert diameter69.81 mm 2.7488 in
- (**) 159. Connecting rod, big end typeinserdiameter 61.9 pmp. 4384 in WEIGHTS
- (*) 160. Flywheel (clean) 12.92 kg 28.5 lbs
- (*) 161. Flywheel with clutch (all rotating parts)24,44kg 53,9 lbs
- (*) 162. Crankshaft 29.70 kg 65.5 lbs
 - 163. Connecting Rod 1940 kg 2.07 lbs
- (*) 164. Piston with rings & $pin_{1.853}$ kg 4.07 lbs

FOUR CYCLE ENGINES

- .**) 170. Camshafts number one (1) material/s alloy iron
- (**) 171. Camshaft location Cylinder block
- (**) 172. Camshaft Drive, type chain
- (**) 173. Valve operation type tappet, pushrod, rocker

- 180. Inlet manifold materials cast iron
- 181. Valves (overall) diameter 53.26 mm 2.097 in
- (*) 182. Valve lift maximum 12.7 mm .500 in
 - 183. Springs, valve number two (2)
 - 184. Spring type coil and flat
- (**) 185. Valves, per cylinder number one (1)
- *) 186. Tappet clearance for checking timing (cold) mm in Hydraulic
- (*) 187. Valves open at (with tolerance for tappet 18° BTC clearance indicated)
- (*) 188. Valves close at (with tolerance for tappet 72° ABC clearance indicated)
- (*) 189. Air filter type Dry Element

STAMP

ENGINE ACCESSORIES

- (*) 230. Pump, fuel - mechanical and/or electrical
 - 231. Number fitted one (1) each - two (2) total:
 - 232. Ignition system - type battery and coil
 - 233. Distributors - number one (1)
 - Coils, ignition number 234. one (1)
 - 235. Spark plugs - number per cylinder
 - 236. Generator (or Alternator) - number fitted one (1)
 - 237. Drive - method Belt
 - Voltage, generator volts 238. 12.8
 - 239. Battery - number one (1)
 - 240. Location engine compartment or trunk
 - 241. Voltage - volts 12 amp hrs 80

ENGINE & CAR PERFORMANCE as declared by mfr. in catalogue

- (*) 250. Horsepower - maximum engine output 335 at 5200 rpm S.A.E. (indicate SAE or DIN)
- (*) 251. RPM - maximum 5200 output at that figure 335
- (*) 252. Torque - maximum 440 at 3400 rpm
- (*) 253. Speed - maximum km/hour miles/hour

DRIVE TRAIN

Clutch

- 260. Type Dry plate
- 261. Plates - number of driven one (1)
- 262. Plates - diameter 29.21 cm 11.5 in
- 263. Linings - diameter - inside 17,78 cm 7.0 in Linings - diameter - outside 29.21 cm 11.5 in
- 264. Method of operation Mechanical

STAMP STAMP

Gear Box (Photo H)

- (**) 270. Manual type make Ford
- (**) 271. Ratios, forward number four (4)
 - 272. Ratios, forward number synchronized four (4)
 - 273. Gear-Shift locationfloor optional
- (**) 274. Automatic make Ford type Hydraulic with planetary gears and torque converter
- (**) 275. Ratios, forward number three (3)
 - 276. Gear-Shift location floor or column

	Manual		Automatic		Alternative manual/automatic			automatic	
277.	Ratio	# Teeth	Ratio	# Te	eeth	Ratio	# Teeth	Ratio	# Teeth
1	2.32	$\frac{23}{25} \frac{32}{15}$	2.46		러	2.78	23 32 38 15		
2	1,69	$\frac{23}{25} \frac{28}{18}$	1,46	Ma.	.02	1.93	$\begin{array}{cc} 23 & 31 \\ \hline 30 & 21 \end{array}$		
3	1.29	$\begin{array}{cc} 23 & 25 \\ \hline 25 & \overline{21} \end{array}$	1.0	ter	1 2	1.36	$\frac{23}{30} \frac{25}{24}$		
4	1,00	Direct		ver	ta]	1.00	Direct		
5				CO	д Т				
6	*******************************	32.003.003.0000000000000000000000000000		que	io				
reverse	2.78		2.175	Tor	rat				

- 278. Overdrive type none fitted
- 279. Forward gears on which overdrive can be selected
- 280. Overdrive ratio

FINAL DRIVE

- (**) 290. Type Hypoid, semi-floating, straddle mounted pinion
- (**) 291. Differential type locking by ratchet or friction
- Limited Slip Differential (if fitted) type ≠ Positive locking b (**) 292. 3.0 3.25 3.50 3.70 3.91 4.30 by ratchet or friction 293. Ratio 39 39 35 37 43 43 13 12 10 10 II 10

Teeth - number

(≠) Specify friction or positive locking type STAMP STAMP

IMPORTANT

The conformity of the car with the following items of the present recognition form is to be disregarded during the technical inspection when the vehicle has been entered in Group II (Touring Cars) or III (Grand Touring Cars):
41, 72, 80, 91, 142, 143, 144, 145, 146, 153, 156, 157, 160, 161, 162, 163, 164, 182, 186, 187, 188, 189, 201, 202, 203, 212, 213, 215, 216, 222, 225, 230, 250, 251, 252, 253, 255, photos I, M, N & items on page 5 as indicated.

During the technical inspection of cars entered in Group IV (Sports Cars) only the following items of the present recognition form are to be taken into consideration:
1, 2, 3, 9, 20, 21, 22, 23, 24, 25, 26, 70, 71, 78, 79, 90, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 147, 148, 149, 150, 158, 159, 170, 171, 172, 173, 185, 200, 270, 271, 274, 275, 290, 291, 292 & photos A, B, D, E, F, G, H, J, K, O.

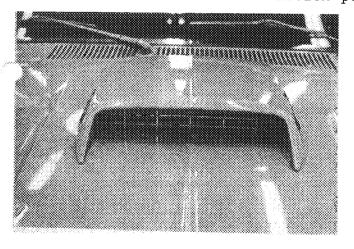
Optional equipment affecting preceding information:

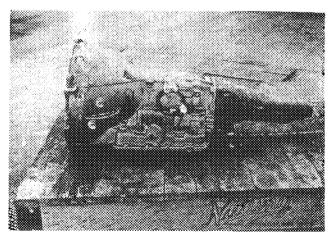
CATALOGUE PART NUMBER MUST BE GIVEN

S7MS-6675-B

Sump Guard

Ram Air induction package





Automatic Gearbox - Photo "H"

STAMP

IMPORTANT

The conformity of the car with the following items of the present recognition form is to be disregarded during the technical inspection when the vehicle has been entered in Group II (Touring Cars) or III (Grand Touring Cars):
41, 72, 80, 91, 142, 143, 144, 145, 146, 153, 156, 157, 160, 161, 162, 163, 164, 182, 186, 187, 188, 189, 201, 202, 203, 212, 213, 215, 216, 222, 225, 230, 250, 251, 252, 253, 255, photos I, M, N & items on page 5 as indicated.

During the technical inspection of cars entered in Group IV (Sports Cars) only the following items of the present recognition form are to be taken into consideration:
1, 2, 3, 9, 20, 21, 22, 23, 24, 25, 26, 70, 71, 78, 79, 90, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 147, 148, 149, 150, 158, 159, 170, 171, 172, 173, 185, 200, 270, 271, 274, 275, 290, 291, 292 & photos A, B, D, E, F, G, H, J, K, O.

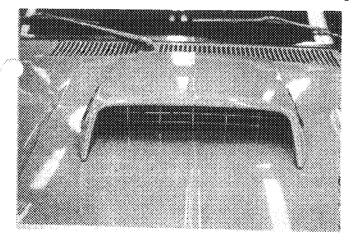
Optional equipment affecting preceding information:

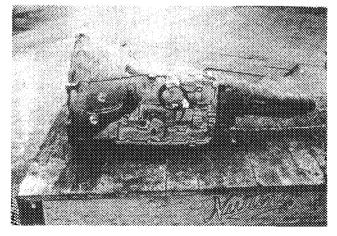
CATALOGUE PART NUMBER MUST BE GIVEN

S7MS-6675-B

Sump Guard

Ram Air induction package





Automatic Gearbox - Photo "H"

STAMP