



AUTOMOBILE COMPETITION COMMITTEE
FOR THE UNITED STATES, F.I.A., INC.

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

1562 M
Boss
302
G II

Federation Internationale de l'Automobile
FORM OF RECOGNITION

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

Cylinder capacity 4948.9 cm3 302 in3

Manufacturer Ford Motor Company Model 1969 Mustang Boss 302

Serial # Chassis 9-02-100001 Manufacturer Ford

Serial # Engine None Manufacturer Ford

Recognition valid from APR 1 1969 List 1969/2

The manufacturing of the model described in this recognition form was started on November 4, '68 and the minimum production of 1,000 identical cars, in accordance with the specifications of this form, was reached on January 17, 1969.

- (*) need not be answered for Group II and III cars.
- (**) only need to be answered for Group IV cars.

A 3/4 Front View Car **



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

Variants
on 19 rec # list
on 19 rec # list
on 19 rec # list

Normal evolution of the type
on 19 rec # list
on 19 rec # list
on 19 rec # list

Stamp/Signature of
National Sporting Authority

John V. Clonan
updated July 24 69



Stamp/Signature
F.I.A.

MAKE Ford

MODEL '69 Mustang Boss FIA REC # 1562 M Boss 302

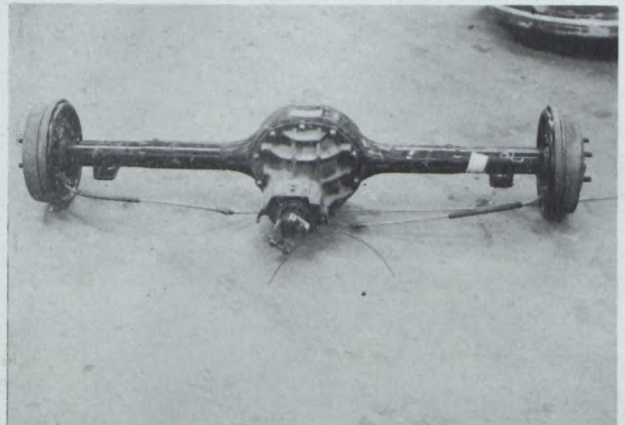
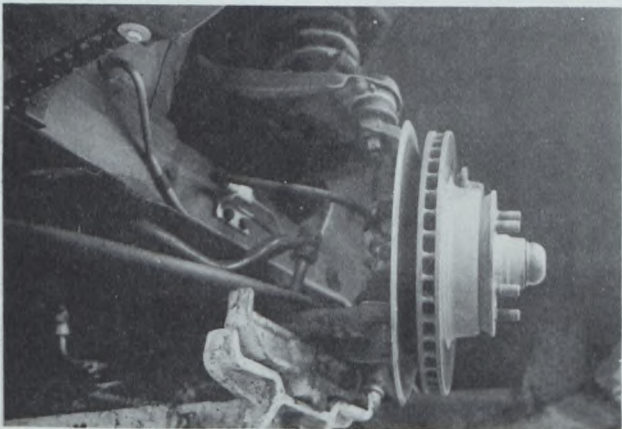
B 3/4 rear car (**)

C interior-car (**)



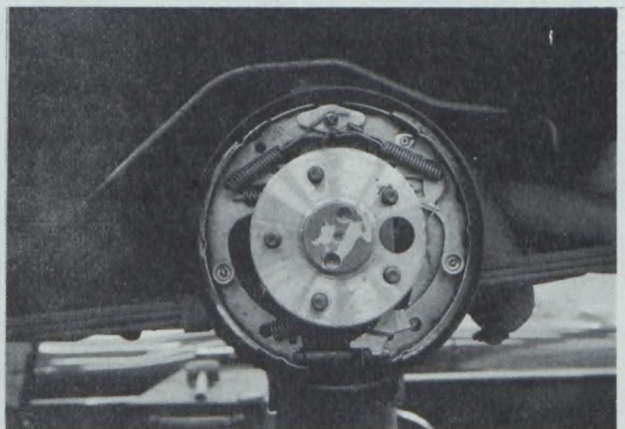
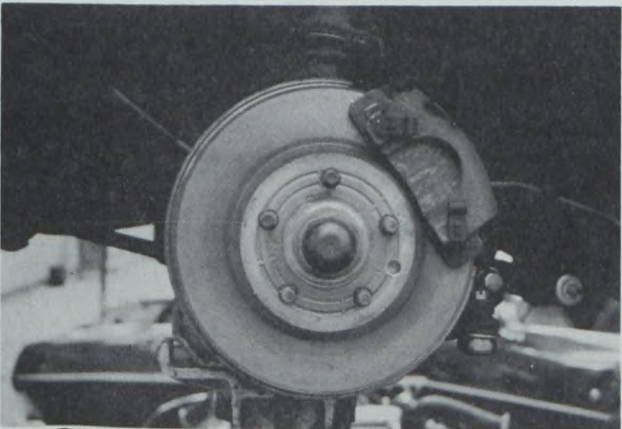
D front axle (**)

E rear axle (**)



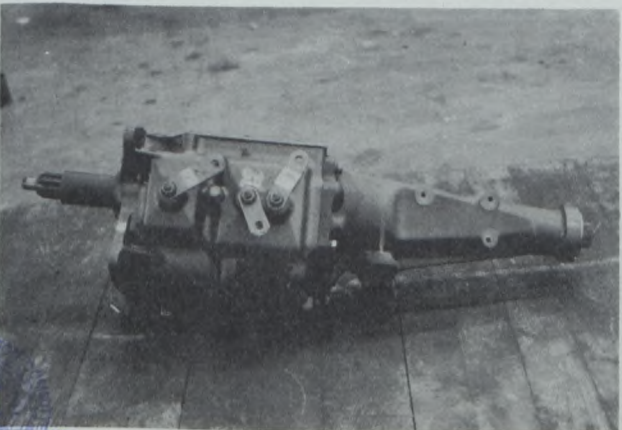
F brake, front (**)

G brake, rear (**)



H gear box (**)

I exhaust system (*)



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MAKE

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MODEL 169 Mustang

FIA REC # 1562

M Boss

J ENGINE RIGHT (**)

(**)

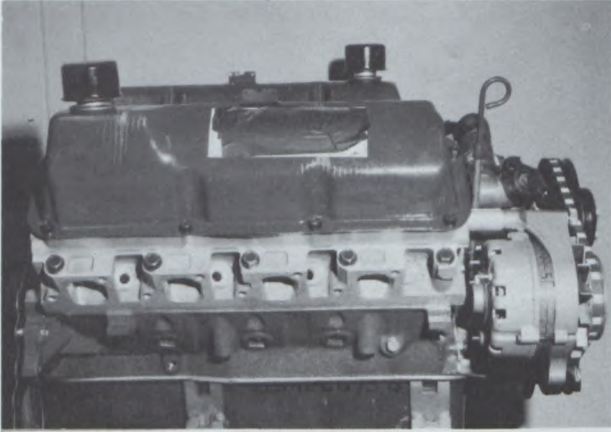
Boss 302

K ENGINE LEFT (**)

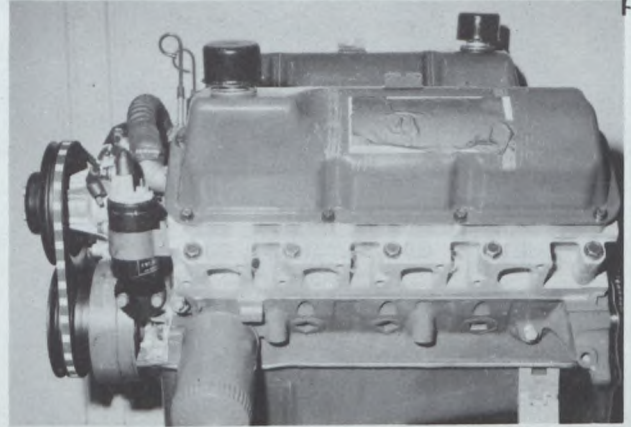
(**)

302

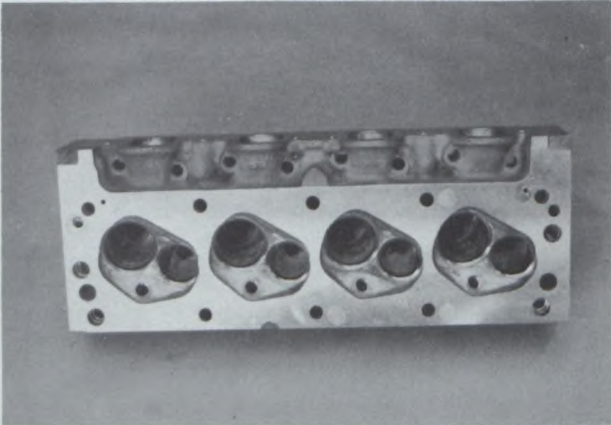
I



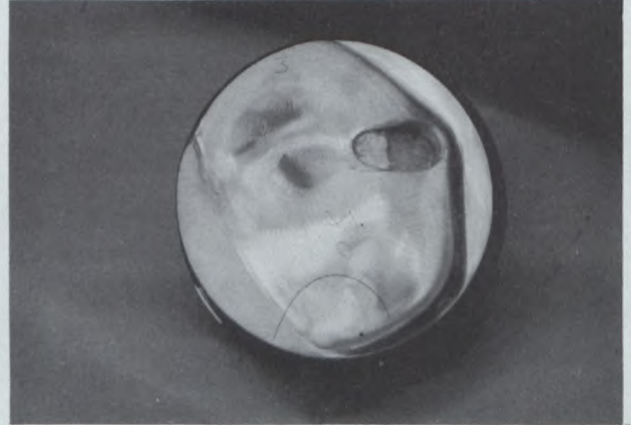
L COMBUSTION CHAMBER



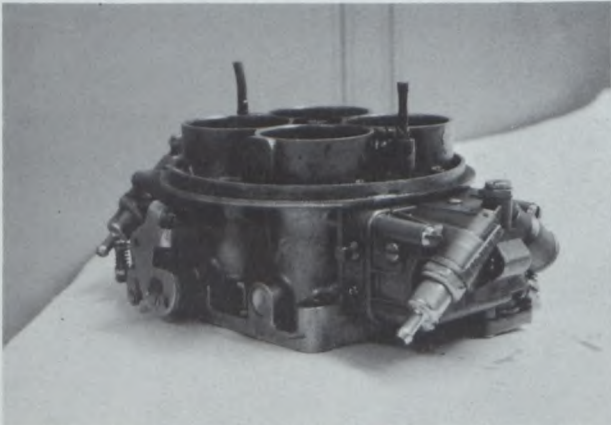
M PISTON TOP (*)



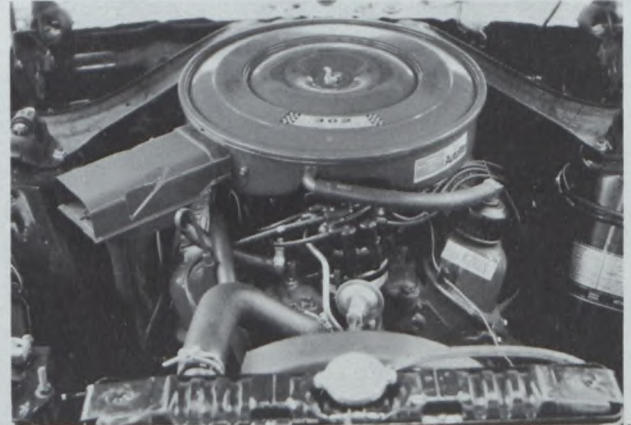
N CARBURETOR (*)



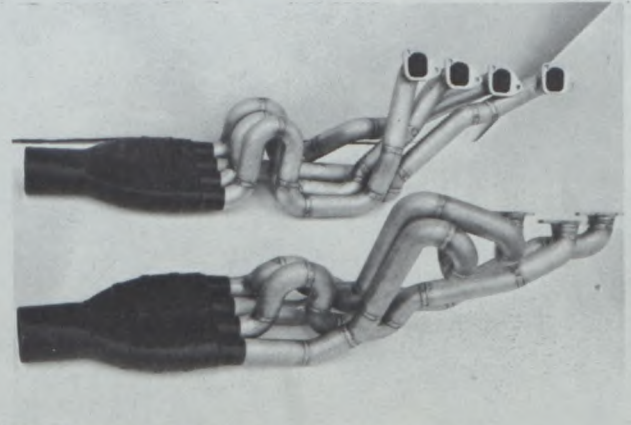
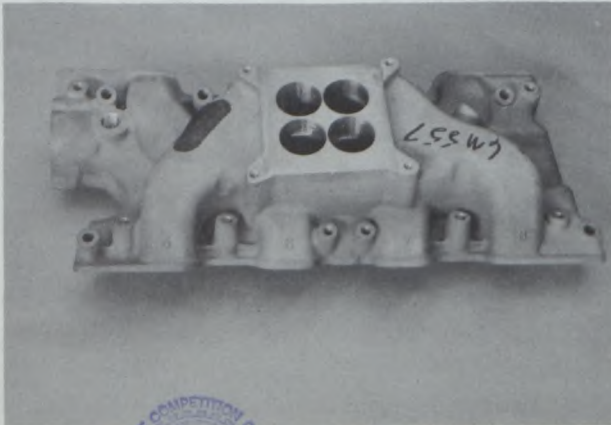
O ENGINE IN PLACE (**)



P MANIFOLD INLET



Q MANIFOLD EXHAUST



3.5" I.D.

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

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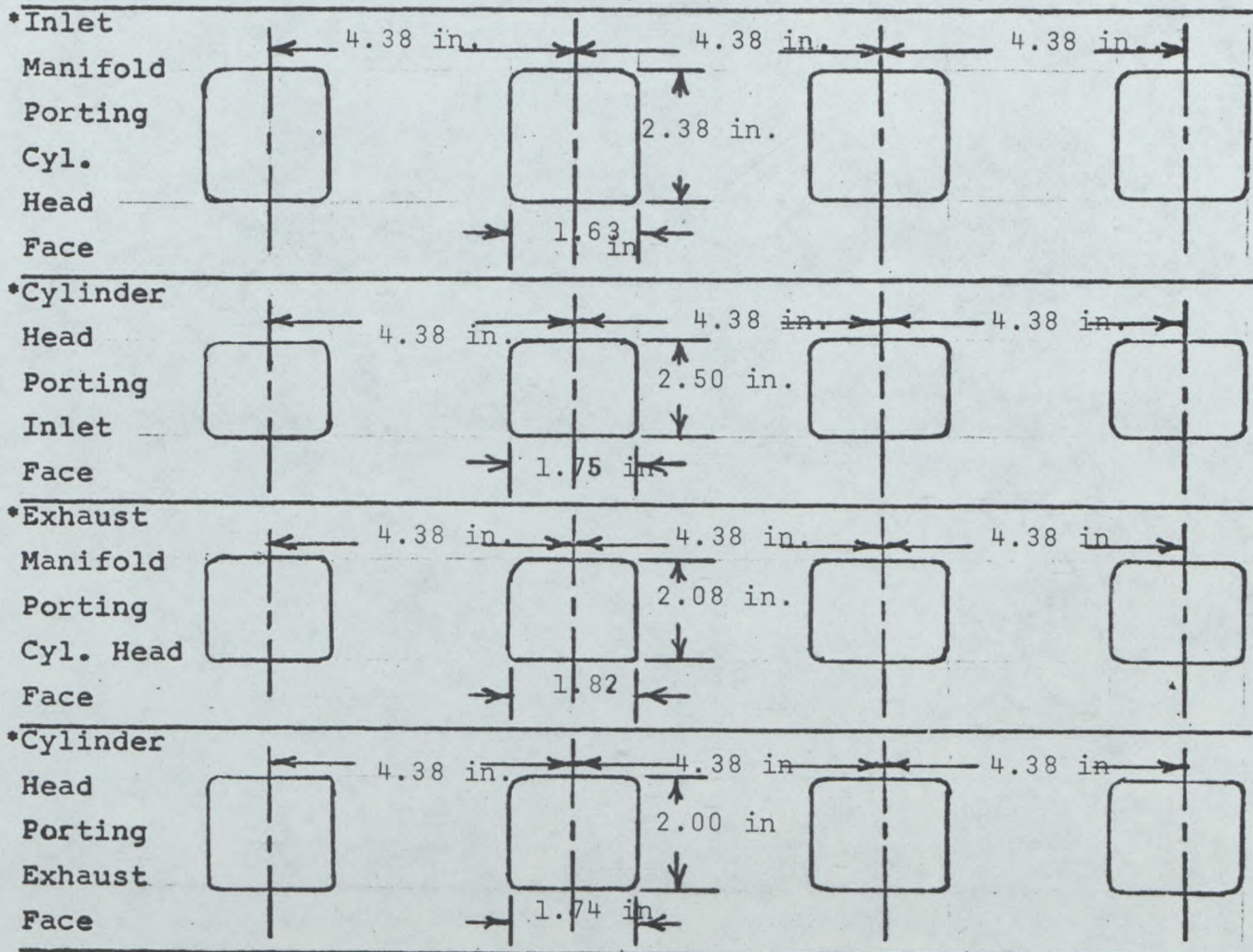
MAKE FORD

MODEL '69 Mustang Boss 302

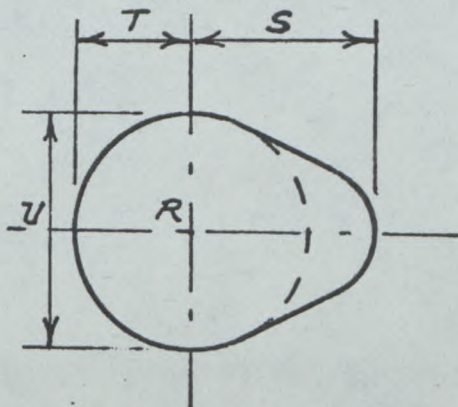
FIA REC # 1562

M
Boss
302
G II

ALL SKETCHES MUST INDICATE ACTUAL DIMENSIONS AND MANUFACTURER'S TOLERANCES. +/- .04 in. or +/- 1 MM



CAM



Inlet cam

S=	25.35	mm	.998	in
T=	17.73	mm	.698	in
U=	35.46	mm	1.396	in

Exhaust cam

S=	25.35	mm	.998	in
T=	17.73	mm	.698	in
U=	35.46	mm	1.396	in



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MAKE Ford MODEL '69 Mustang Boss 302 FIA REC # 1562 M
Boss 302 G II

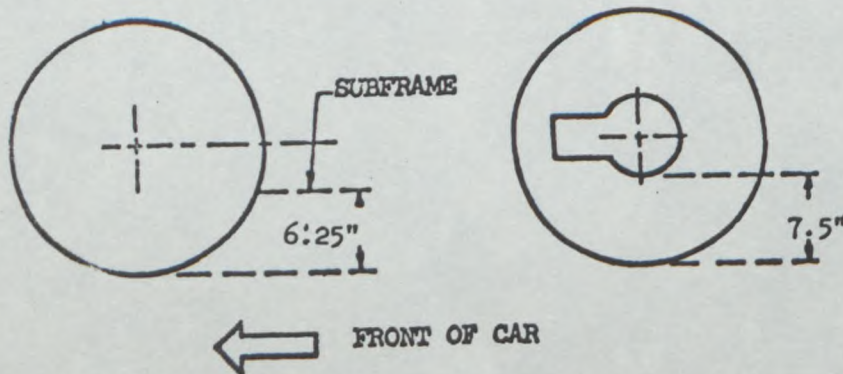
IMPORTANT: Questions 1 through 9 must be answered in two measuring systems, one of which must be the metric system.
See conversion table at index.

CAPACITIES & DIMENSIONS

- (**) 1. Wheelbase 2743.2 mm 108.0 in
 - (**) 2. Front track with 7" wheels 1549.4 mm 61.0 in + at 0° camber
 - (**) 3. Rear track with 7" wheels 1518.9 mm 59.8 in + 0" toe-in
- + Differences in track resulting from use of optional wheel and rim sizes must be stipulated on recognition application forms. * See note below

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 477 cm 187.4 in
- 5. Overall width of car 182.1 cm 71.7 in
- 6. Overall height of car 128 cm 50.4 in
- 7. Capacity of fuel tank (reserve included) 75.70 ltrs.
20 gallons US gallons, 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. 1235.6 kg 2724 lbs



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MAKE Ford MODEL '69 Mustang Boss FIA REC # 1562 M Boss 302 G II

CHASSIS & BODYWORK - Photos A, B, C 302

- (***) 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 two(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/hinged

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 BUCKET X CONSOLE INCLUDED optional
- 43. Seats, rear - type of seat and upholstery Bench/vinyl
- 44. Bumper, front - material/s steel kg 5.13 lbs 11.3 Weight
- 45. Bumper, rear - material/s steel kg 5.76 lbs 12.7 Weight

WHEELS

- 50. Type steel
- 51. Weight (per wheel, without tire) 5.9kg 13 lbs
- 52. Method of attachment stud and nut (5)
- 53. Rim, diameter 381 mm 15 in
- 54. Rim, width 178 mm 7 in

STEERING

- 60. Type Recirculating Ball and nut
- 61. Servo assistance Optional
- 62. Number of turns of steering wheel from lock to lock 4.64
- 63. In case of servo assistance 3.74



STAMP

MAKE Ford

MODEL '69 Mustang Boss 302

FIA REC # 302

M
Boss
~~302~~
G II
1562

SUSPENSION

- (**) 70. Suspension, front (photo D) - type Independent
- (**) 71. Spring - type coil
- (*) 72. Stabilizer - if fitted yes
- 73. Shock absorbers - number two (2)
- 74. Type tubular-adjustable
- (**) 78. Suspension, rear (photo E) - type live axle
- (**) 79. Spring - type leaf
- (*) 80. Stabilizer - if fitted sway bar/traction bars
- 81. Shock absorbers - number two (2)
- 82. Type tubular adjustable

BRAKES (Photos E and F)

- (**) 90. Method of operation Hydraulic
- (*) 91. Power assisted (if fitted) - type Pedal Boost
- 92. Master Cylinders - number and type one (1) dual
- (indicate if duplex master cylinder) Front Rear
- 93. Cylinders - number per wheel one (1) one (1)
- 94. Cylinders - wheel bore 60.2 mm 2.375 in 22.2 mm .875 in
- (indicate stepped bore dimensions if applicable)

Drum Brakes

- | | <u>Front</u> | <u>Rear</u> |
|------------------------------|--------------------------|--|
| 95. Diameter, inside | mm 125.4 | mm 10.0 in |
| 96. Linings, length | mm 49.5 | mm 19.5 in |
| 97. Linings, width | mm 44.45 | mm 1.75 in |
| 98. Shoes - number per brake | Two (2) | |
| 99. Area, total - per brake | mm ² 22,017.5 | mm ² 34.125 in ² |

Disc Brakes

- | | | | | |
|------------------------------|--------------------------|----------------------|-----------------|-----------------|
| 100. Diameter, outside | 287 mm | 11.3 in | mm | in |
| 101. Thickness of disc | 23.81 mm | .9375 in | mm | in |
| 102. Lining - length | 124.5 mm | 4.9 in | mm | in |
| 103. Lining - width | 52.6 mm | 2.07 in | mm | in |
| 104. Pads - number per brake | two (2) | | | |
| 105. Area, total - per brake | mm ² 13,097.4 | in ² 20.2 | mm ² | in ² |



STAMP

MAKE Ford MODEL '69 Mustang Boss FIA REC # G II
302

1562

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 101.6 mm 4.0 in
- (**) 134. Stroke 76.2 mm 3.0 in
- (**) 135. Cylinders - capacity 619.4 cm³ 337.8 in³
- (**) 136. Cylinders, total capacity 4948.9 cm³ 302 in³
- (**) 137. Cylinder Block - material/s cast iron
- (**) 138. Sleeves - material/s (if fitted) none fitted
- (**) 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 12.0:1
- (*) 143. Combustion chamber - volume 65.5 cm³ 3.997 in³
- (*) 144. Piston - material/s Aluminium Alloy
- (*) 145. Rings - number Three (3)
- (*) 146. Distance from gudgeon pin centre line to highest point of piston crown 43.69 mm 1.72 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 nodular iron
- 151. Lubrication - system - dry sump/oil in sump
- 152. Lubricant - capacity 10.41 ltrs pts 11 qts US
- (*) 153. Cooler, oil - yes no
- 154. Cooling - method water radiator
- 155. Cooling - capacity of system 18.26 ltrs pts 19.3 qts US



STAMP

MAKE Ford MODEL '69 Mustang FIA REC # 302

M
Boss
302
G II
152

- (*) 156. Fan, cooling (if fitted) - ^{Boss 302} diameter ----- cm ----- in
(*) 157. Fan, cooling - number of blades ----- material/s

BEARINGS

- (**) 158. Crankshaft, main - type insert diameter 57.11 mm 2.249 in
(**) 159. Connecting rod, big end - type insert diameter 53.91 mm 2.1224 in

WEIGHTS

- (*) 160. Flywheel (clean) 9.07 kg 20.0 lbs ± 5 %
(*) 161. Flywheel with clutch (all rotating parts) 30.30 kg 66.8 lbs ± 5 %
(*) 162. Crankshaft 21.32 kg 47 lbs ± 5 %
163. Connecting Rod .748 kg 1.65 lbs ± 5 %
(*) 164. Piston with rings & pin .552 kg 1.216 lbs ± 5 %

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

INLET (See Photo P) (for addtl info re 2 stroke engines and super charged, see page 15)

180. Inlet manifold - materials Aluminum Alloy
181. Valves (overall) - diameter 55.63 mm 2.19 in
(*) 182. Valve lift - maximum 14.86 mm .585 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) .635 mm .025 in
(*) 187. Valves - open at (with tolerance for tappet 66° BTC clearance indicated)
(*) 188. Valves - close at (with tolerance for tappet 84° ABC clearance indicated)
(*) 189. Air filter - type Dry Element

STAMP



STAMP

MAKE Ford MODEL '69 Mustang RIA REC # 1562 M
Boss 302
G II

EXHAUST (See Photo Q)

195. Manifold, exhaust - material/s Tubular steel
196. Valves (overall) - diameter 41.91 mm 1.65 in
197. Valve, lift - maximum 15.24 mm .600 in
198. Valve Springs/valve - number two (2)
199. Springs - type coil and flat
(**) 200. Valves - number per cylinder one (1)
(*) 201. Tappet - clearance for checking timing (cold)
.635 mm .025 in
(*) 202. Valves - open at (with tolerance for tappet 94° BBC
clearance indicated)
(*) 203. Valves - close at (with tolerance for tappet 64° ATC
clearance indicated)

CARBURETION (See Photo N)

210. Carburetors, fitted - number one (1)
211. Type Down Flow
(*) 212. Make Holley
(*) 213. Model 1100
214. Carburetors - number of mixture passages four (4)
(*) 215. Carburetor - flange hole diameter of exit port
50.8 mm 2.00 in
216. Venturi - throat diameter+ 43.18 mm 1.70 in

INJECTION

220. Pump - make
221. Plungers - number none fitted
(*) 222. Pump - model
223. Injectors - location
224. Injectors - total number
(*) 225. Inlet pipe - minimum diameter mm in

+ For variable throat type carburetors, indicate minimum lift of
shutter mechanism such as pistons in S.U.

STAMP

STAMP

MAKE Ford MODEL '69 Mustang FIA REC # 1562
Boss 302

M
Boss
302
G II

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)
234. Coils, ignition - number One (1)
235. Spark plugs - number per cylinder one (1)
236. Generator (or Alternator) - number fitted One (1)
237. Drive - method Belt
238. Voltage, generator - volts 12.8
239. Battery - number one (1)
240. Location engine compartment or trunk
241. Voltage - volts 12 amp hrs 45

ENGINE & CAR PERFORMANCE as declared by mfr. in catalogue

- (*) 250. Horsepower - maximum engine output 290 at 6000 rpm SAE
(indicate SAE or DIN)
(*) 251. RPM - maximum 6000 output at that figure 290
(*) 252. Torque - maximum 345 at 3200 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 26.7 cm 10.5 in
263. Linings - diameter - inside 16.5 cm 6.5 in
Linings - diameter - outside 26.7 cm 10.5 in
264. Method of operation mechanical

STAMP

STAMP



MAKE Ford

MODEL '69 Mustang

FIA REC # 1562

M
Boss
302
G II

Boss 302

Gear Box (Photo H)

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

277.	Manual		Automatic		Alternative manual/automatic			
	Ratio	# Teeth	Ratio	# Teeth	Ratio	# Teeth	Ratio	# Teeth
1	2.78	$\frac{23}{30} \frac{32}{15}$	2.46	Torque converter maximum ratio at stall 2.02; 1	2.32	$\frac{23}{25} \frac{32}{15}$		
2	1.93	$\frac{23}{30} \frac{31}{21}$	1.46		1.69	$\frac{23}{25} \frac{28}{18}$		
3	1.36	$\frac{23}{30} \frac{25}{24}$	1.00		1.29	$\frac{23}{25} \frac{25}{21}$		
4	1.00	Direct			1.00	Direct		
5								
6								
reverse	2.78		2.20		2.32			

- 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 Roller
- (**) 292. Limited Slip Differential (if fitted) - type \neq Positive locking by ratchet or roller
- 293. Ratio
Teeth - number $\frac{39}{13} \frac{31}{10} \frac{39}{12} \frac{34}{10} \frac{35}{10} \frac{37}{10} \frac{43}{11} \frac{37}{9} \frac{39}{9}$ 3.0 3.10 3.25 3.40 3.50 3.70 3.91 4.11 4.33(+ see below)

(\neq) Specify friction or positive locking type

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STAMP

++ 4.57 4.71 4.86 5.14
 $\frac{32}{7} \frac{33}{7} \frac{34}{7} \frac{36}{7}$



MAKE Ford

MODEL '69 Mustang
Boss 302

FIA REC # 1562

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 17.4 lbs
- Staggered shock absorber mounts - rear
- S8MR-2025-A Rear Disc Brake kit, includes: 65 lbs
 - 2-Brake rotors-ventilated
 - 2-caliper assemblies-R.H.+L.H.
 - 2-Brackets, caliper mounting-RH +LH
 - 2- Hubs, with required bearing assemblies, lines, fittings and attaching parts
 - applicable dimensions
 - 100. Diameter outside 11.3 in. 287 mm.
 - 101. thickness of rotor .94in. 24.2 mm
 - 102. Lining-Length 4.875 in. 123mm
 - 103. Lining-width 1.81 in. 45.97 mm.
 - 104. Pads-no.per brake two (2)
 - 105. Area-total per brake 17.65 in 2 12,214 mm 2
- Alternate Wheel-8" front track- 62.0 in. 1574.8 mm
 - rear track - 60.5 in. 1536.7 mm
 - Material: magnesium
 - rim diameter: 15 inch/381 mm.
 - Rim width: 8 inch/203 mm.



STAMP

MAKE Ford

MODEL '69 Mustang
Boss 302

FIA REC # 1362

M
Boss
302
G II

Optional Equipment - CATALOGUE PART NUMBER MUST BE GIVEN

277 (con't)	MANUAL		MANUAL		MANUAL	
	Ratio	Teeth	Ratio	Teeth	Ratio	Teeth
1.	2.36	$\frac{26}{29} \frac{36}{17}$	2.20	$\frac{27}{28} \frac{36}{17}$	1.64	$\frac{36}{17} \frac{27}{21}$
2.	1.62	$\frac{26}{29} \frac{29}{20}$	1.42	$\frac{27}{28} \frac{26}{19}$	1.40	$\frac{29}{16} \frac{27}{21}$
3.	1.20	$\frac{26}{29} \frac{27}{25}$	1.19	$\frac{27}{28} \frac{24}{21}$	1.16	$\frac{27}{18} \frac{27}{21}$
4.	1.00	Direct	1.00	Direct	1.00	

S8MR-2025-B Front disc brake fit-Four piston, includes: 21 Lbs.
2- Caliper assemblies-R.H. + L.H. (Piston Bore-1.625"-41.3mm)
2- Brackets, caliper mounting-R.H.+L.H., lines, fittings + attaching parts.

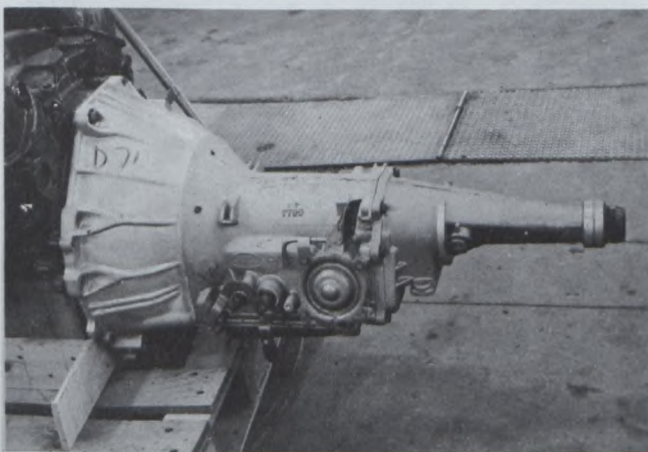
S8MR-2025-C Front disc brake kit-includes: 75 Lbs.
2-Brake rotors-ventilated
2-caliper assemblies-R.H. + L.H.
2-Brackets, Caliper mounting-RH + LH
2-Hubs, with required bearing assemblies, lines, fittings + attaching parts

Applicable dimensions:

- 100. Diameter, outside 11.96 in. 303.8 mm
- 101. Thickness of rotor 1.25 in. 31.8 mm
- 102. Lining length 5.36 in. 136.1 mm
- 103. Lining width 1.90 in. 48.3 mm
- 104. Pads-No. per Brake Two (2)
- 105. Area, total per brake 20.36 in 2 13,147.3 mm 2

K9MR-5790-A Watts linkage-Rear Axle
7379020 ~~Deletion option Deletes all sealers, sound deadeners & outside trim.~~

S1MR-61615-A Bucket seat assembly, driver and passenger-12 pounds each.



STAMP



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Automatic Transmission Photo H

Interior with Automatic Transmission

Code # C4



MAKE FORD

MODEL '69 Mustang
Boss 302

FIA REC # 1562

M
Boss
302
GII

- S7MR-6650-B Differential cooler Kit, includes:
1-Radiator-Oil
1-Duct-Air and flange assembly
1-Plenum box
2-Pump-oil circulating
1-Bracket-Pump mount
required lines, fittings & attaching hardware
- S8MR-7009-A Transmission cooler kit, includes:
1-Radiator-Oil
1-Duct-Air and flange assembly
1-Plenum Box
1-Pump-oil circulating
required lines, fittings, and attaching hardware
- S9MR-10849-A High Performance instrument cluster, includes:
1-Panel, instrument
1-Tachometer
1-Oil Pressure Gauge
1-Temperature Gauge
1-Water Temperature Gauge
1-Fuel Pressure Gauge
1-Speedometer
- K9MR-6675-A High Capacity oil pan assembly
- K9MR-6B068 8V induction Kit, Includes:
1-8V manifold-I.R.
2-Carburetors-Holley #720 or # 1100
Required lines, fittings, and attaching parts.
- S8MR-1103-A Knock off wheels and hub kit, includes 78 lbs.
4 hubs
4 nuts - Quick-off
4 wheels
required attaching hardware.
- GFMK-18127-A Traction Bar Kit
- K9MR-6A068 8V induction kit, includes:
1-8V Manifold Torque Box
2- Carburetors-Holley # 720 or # 1100
required lines, fittings and attaching parts

7. Optional fuel tank - 37 gallons/140 liters

62. Optional steering - number turns - Lock to lock - 4.64



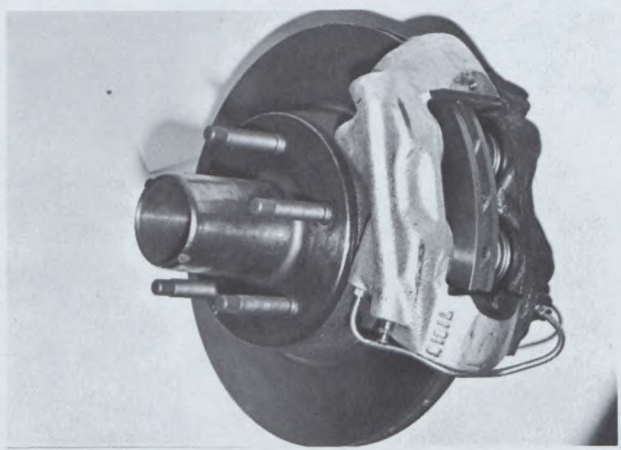
STAMP

MAKE: Ford

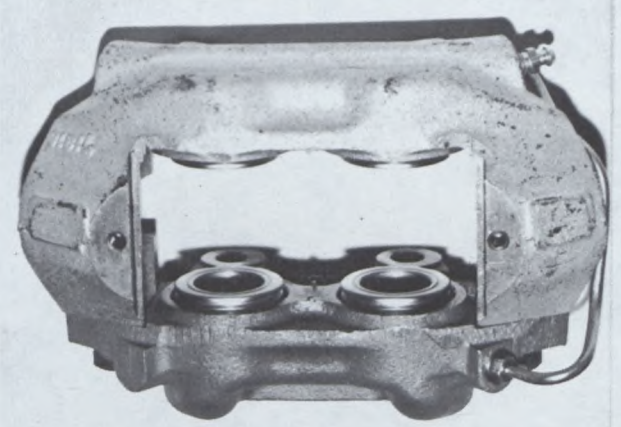
MODEL: '69 Mustang Boss
302

FIA REC. # 1562 M
Boss
302
G II

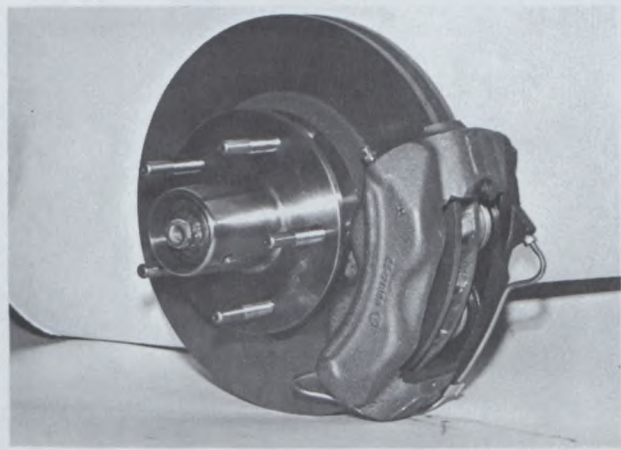
S8MR-2025-A Rear Disc Brake Kit



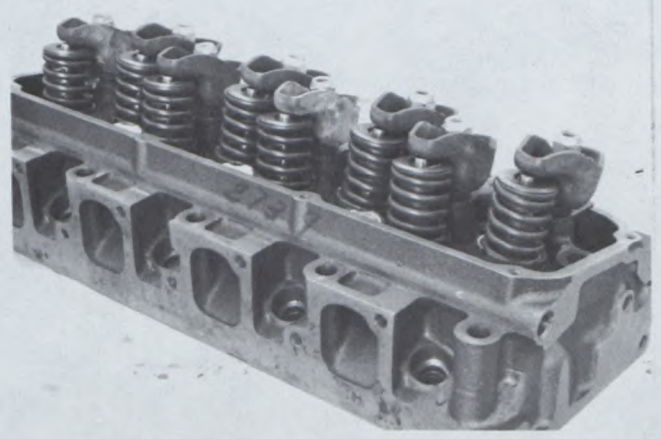
S8MR-2025-B Front Disc Brake Kit



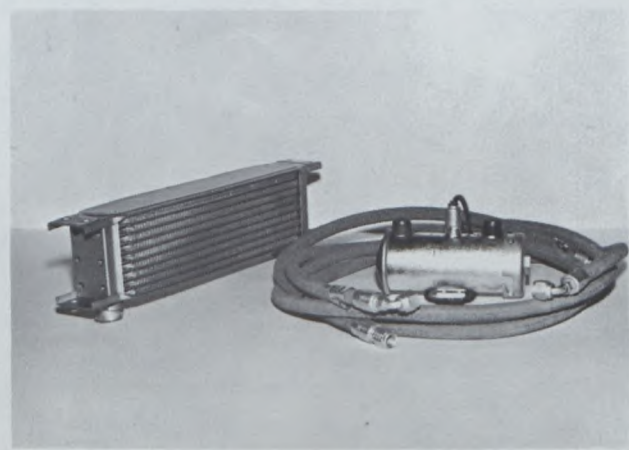
S8MR-2025-C Front Disc Brake Kit.



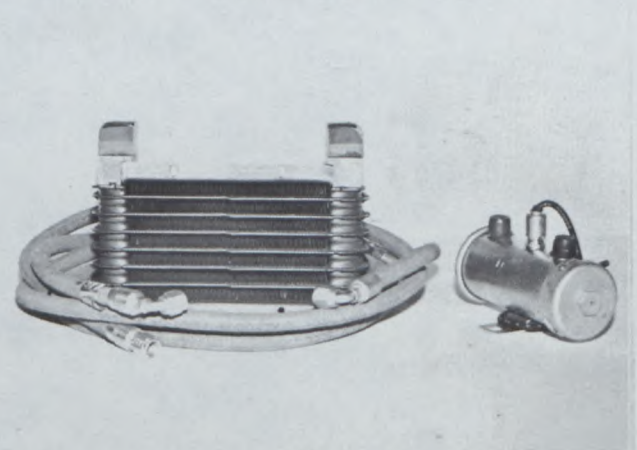
Cylinder Head - Top View Part #C9ZE6049C



S7MR-6650-B Diff. Cooler Kit



S8MR-7009-A Trans Cooler Kit.

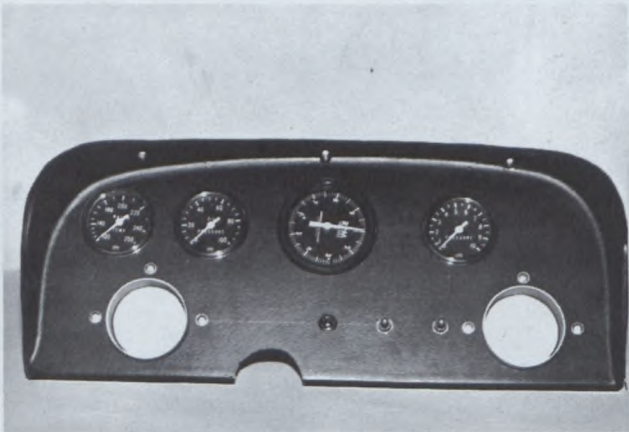


STAMP

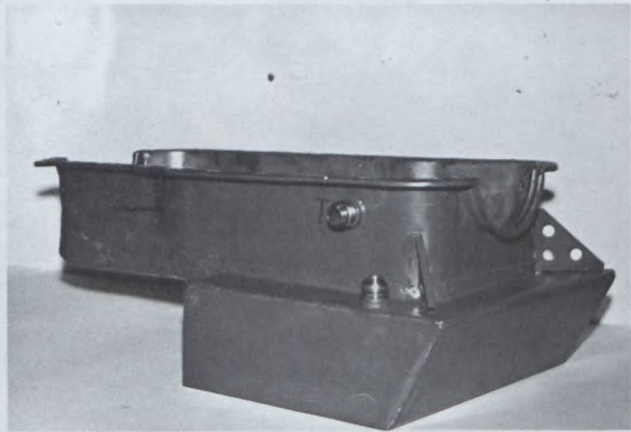
MAKE: Ford MODEL: '69 Mustang Boss FIA REC # 1562
302

M
Boss
302
G II

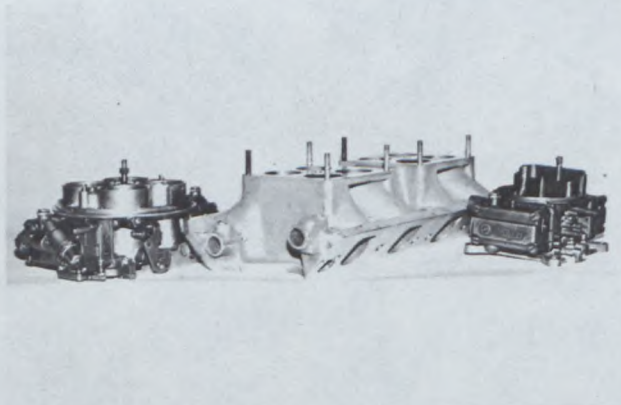
S9MR-10849-A Instrument Cluster



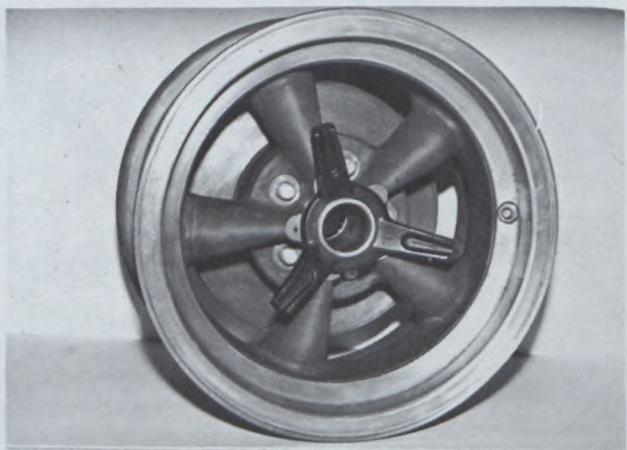
K9MR-6675-A Oil Pan Assembly



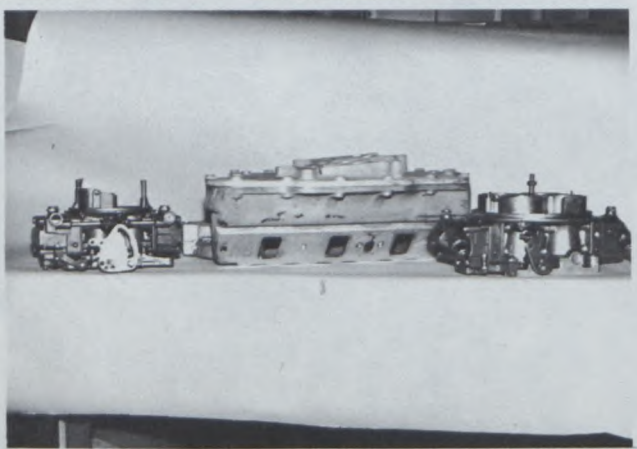
K9MR-6B068 8V Induction Kit (I.R.)



S8MR-1103-A Knock off kit



K9MR-6A068 8V Induction Kit (T.B)



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