



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

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

FIA NO. 1589

GROUP II

APR 1 1970

Federation Internationale de l'Automobile  
FORM OF RECOGNITION

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

Cylinder capacity 4955.2 cm3 302.4 in3

Manufacturer Ford Motor Co. Model BOSS 302 Mustang

Serial # Chassis 0F02G Manufacturer Ford Motor Co.

Serial # Engine 0F02G Manufacturer Ford Motor Co.

Recognition valid from APR 1 1970 List 1970/4

The manufacturing of the model described in this recognition form was started on August 1969 and the minimum production of over 1,000 identical cars, in accordance with the specifications of this form, was reached on December, 1969.

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

A 3/4 Front View Car \*\*

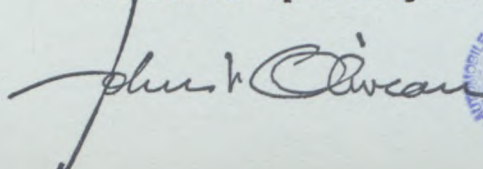



The vehicle described in this form has been subject to the following amendments:

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

Stamp/Signature  
F.I.A.



MAKE Ford

MODEL 1970 BOSS 302 Mustang

FIA REC # 1589

M  
BOSS  
302  
G II

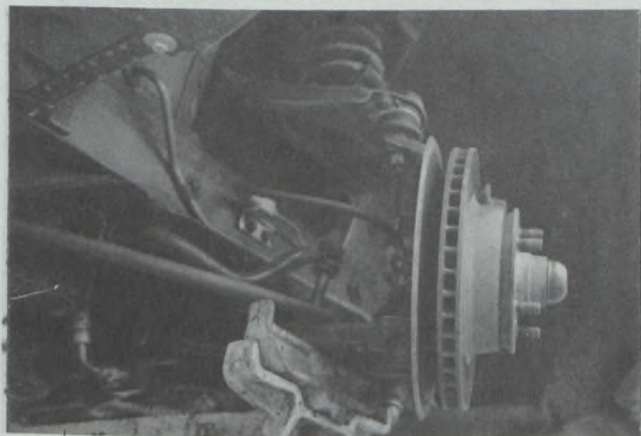
B 3/4 rear car (\*\*)



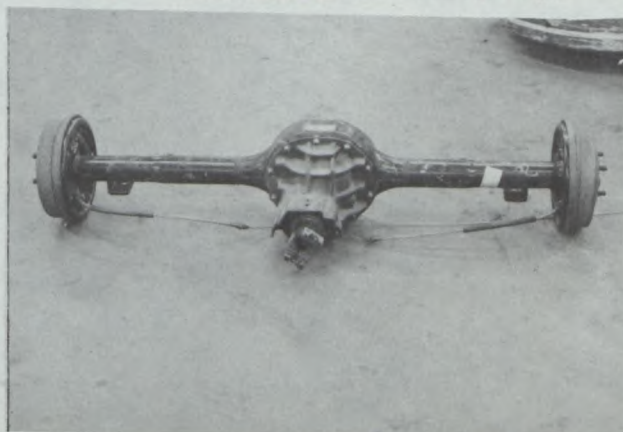
C interior-car (\*\*)



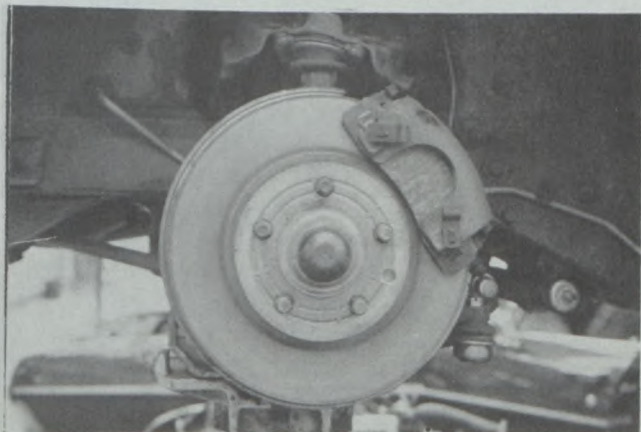
D front axle (\*\*)



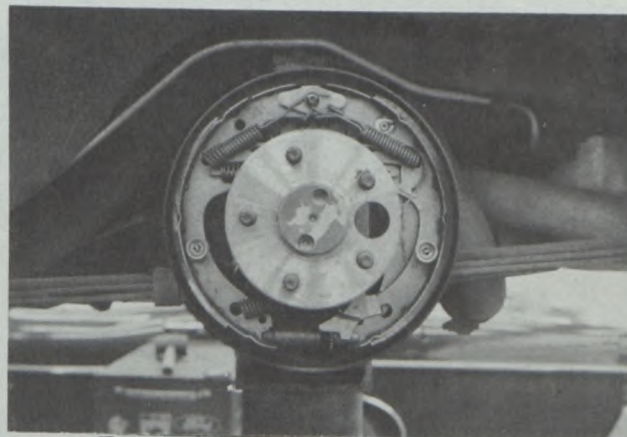
E rear axle (\*\*)



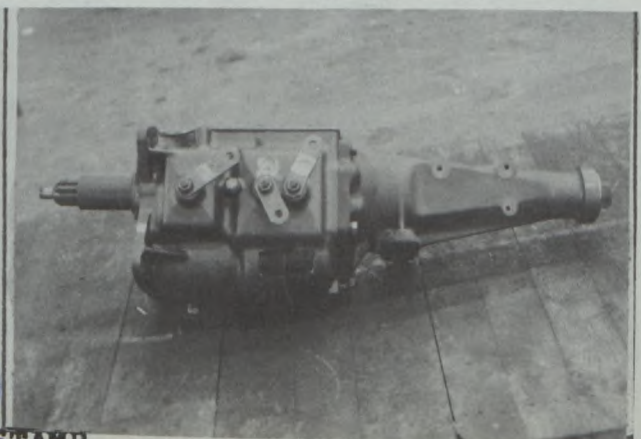
F brake, front (\*\*)



G brake, rear (\*\*)



H gear box (\*\*)



I exhaust system ( )



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(2)



MAKE

Ford Motor Co.

MODEL

1970 BOSS 302

Mustang

FIA REC #

1589

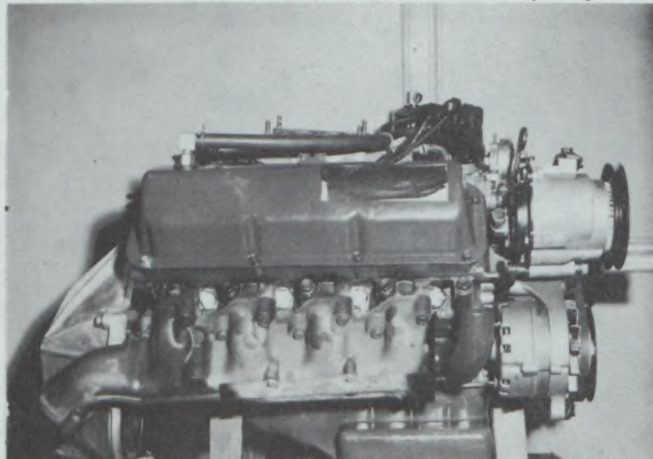
M  
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302  
G II

J ENGINE RIGHT

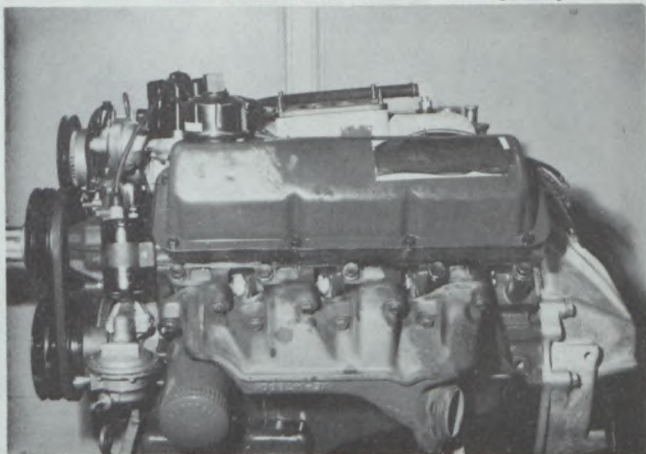
(\*\*)

K ENGINE LEFT

(\*\*)

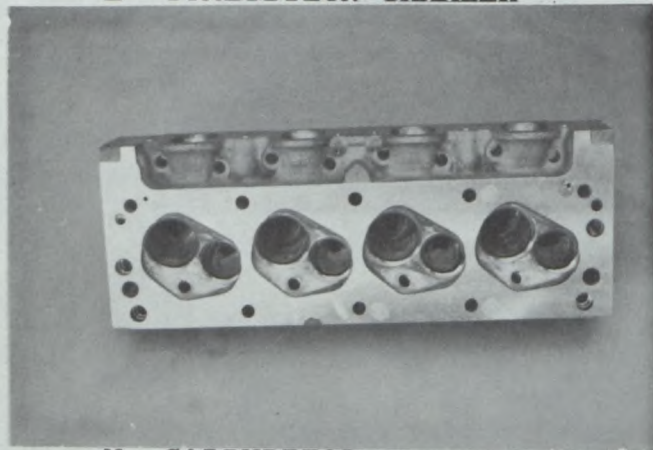


L COMBUSTION CHAMBER



M PISTON TOP

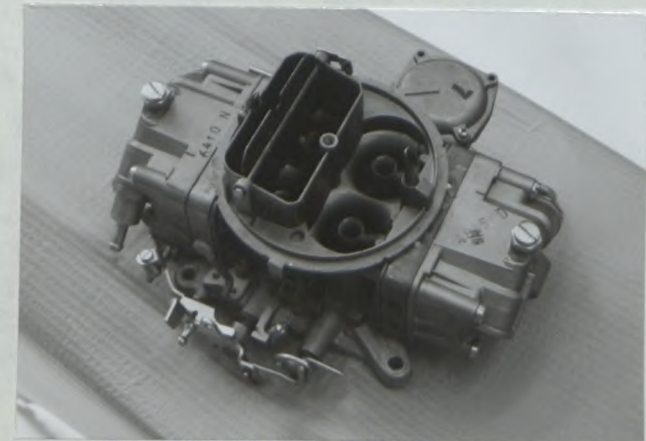
( )



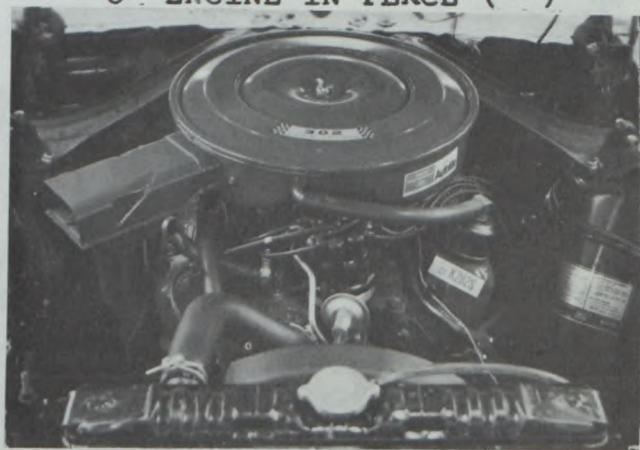
N CARBURETOR



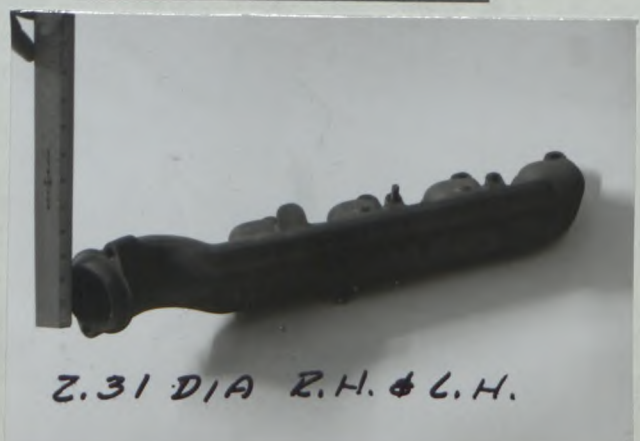
O ENGINE IN PLACE (\*\*)



P MANIFOLD INLET



Q MANIFOLD EXHAUST



2.31 DIA R.H. & L.H.

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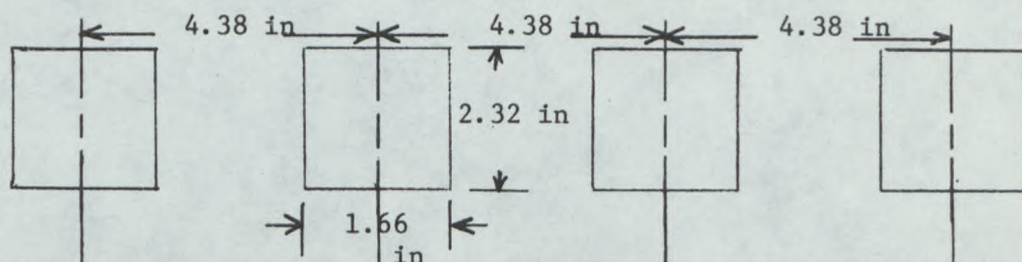
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(3)

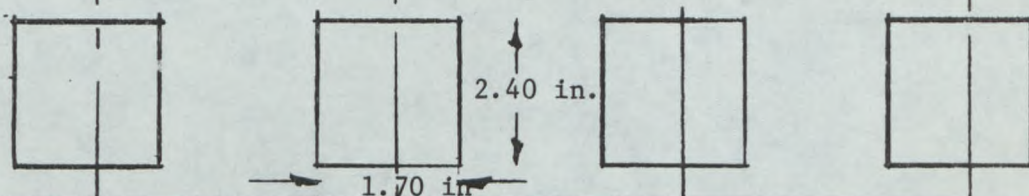


MAKE Ford Motor Co.MODEL 1970 BOSS 302 MustangFIA REC # 1589M  
BOSS  
302  
G IIALL SKETCHES MUST INDICATE ACTUAL DIMENSIONS AND MANUFACTURER'S TOLERANCES.  $\pm .10$  in. or  $\pm 2.54$  mm

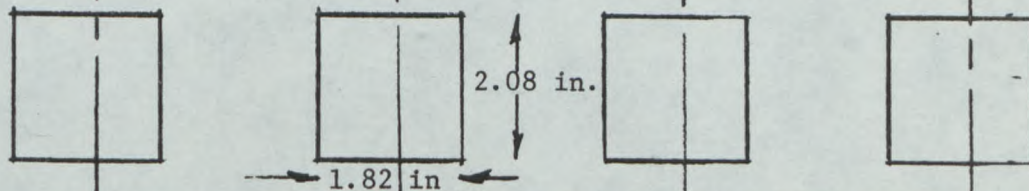
Inlet

Manifold  
Porting  
Cyl.  
Head  
Face

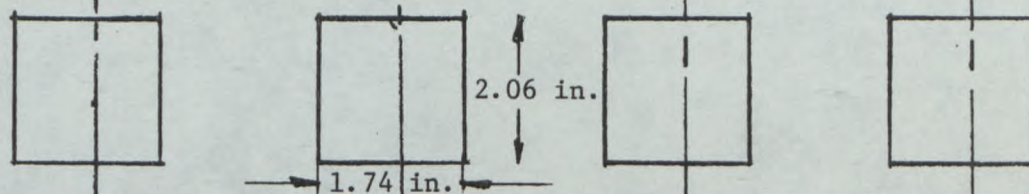
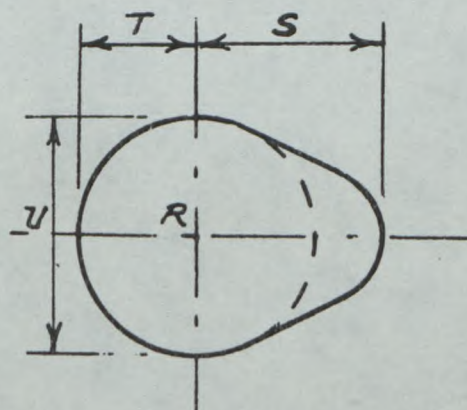
Cylinder

Head  
Porting  
Inlet  
Face

Exhaust

Manifold  
Porting  
Cyl. Head  
Face

Cylinder

Head  
Porting  
Exhaust  
FaceCAMInlet 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 Motor Co. MODEL 1970 BOSS 302 Mustang FIA REC # 1589

M  
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302  
G II

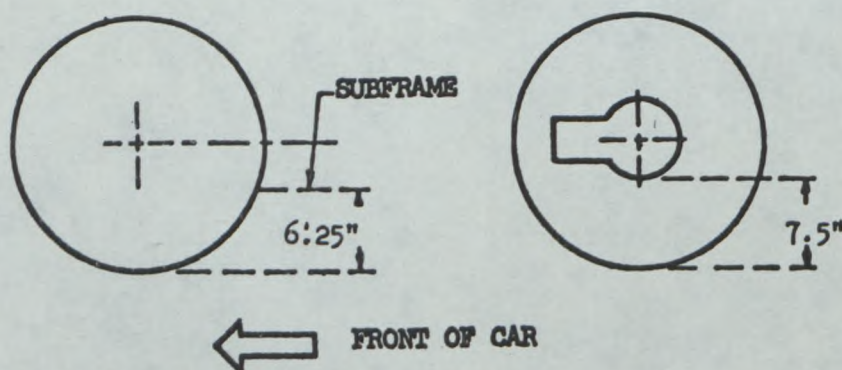
**IMPORTANT:** Questions 1 through 9 must be answered in two measuring systems, one of which must be the metric system.  
See conversion table at index.

**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 1549.4 mm 61.0 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"



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) 83.5/ ~~100~~ ltrs.  
     22/ ~~94~~ 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.

~~1285~~ 1450 kg ~~2784~~ 3195 lbs

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MAKE Ford Motor Co.MODEL 1970 BOSS 302 MustangFIA REC # 1589M  
BOSS  
302  
G IICHASSIS & 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 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 hand operated window 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  
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) 5.9 kg 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 3.74 turns to left  
4.64 turns to right  
63. In case of servo assistance 3.74



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MAKE Ford Motor Co.MODEL 1970 BOSS 302 Mustang FIA REC # 1589 <sup>M</sup> BOSS302  
G IISUSPENSION

(\*\*) 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 Rigid axle  
 (\*\*) 79. Spring - type leaf  
 ( ) 80. Stabilizer - if fitted yes  
 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 60.45 mm 2.38 in 22.2 mm .875 in  
 (indicate stepped bore dimensions if applicable)

Drum Brakes

	<u>Front</u>	<u>Rear</u>
95. Diameter, inside	mm in 254 mm	10.0 in
96. Linings, length	mm in 495 mm	19.5 in
97. Linings, width	mm in 50.8 mm	2.0 in
98. Shoes - number per brake		Two (2)
99. Area, total - per brake	mm <sup>2</sup> in <sup>2</sup> 25,162.8	mm <sup>2</sup> 239.0 in <sup>2</sup>

Disc Brakes

100. Diameter, outside	287 mm	11.3 in	mm	in
101. Thickness of disc	24.00 mm	.945 in	mm	in
102. Lining - length	Primary 163.23 mm	6.82 in	mm	in
	Secondary 124.5 mm	4.95 in	mm	in
103. Lining - width	Primary 55.8 mm	2.20 in	mm	in
	Secondary 52.6 mm	2.07 in	mm	in
104. Pads - number per brake	Two (2)	25.3		
105. Area, total - per brake	16,324 mm <sup>2</sup> /	in <sup>2</sup>	mm <sup>2</sup>	in <sup>2</sup>



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M  
BOSS  
302  
G II

	two	four	Wankel
(**) 130. Cycle			
(**) 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 37.8	in3
(**) 136. Cylinders, total capacity	4955.2	cm3 302.4	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	
(**) 140. Port, inlet - number	eight (8)		
(**) 141. Port, exhaust - number	eight (8)		
( ) 142. Compression - ratio	10.6 nominal	± .3	
( ) 143. Combustion chamber - volume	65.5	cm3 3.997	in3
( ) 144. Piston - material/s	Aluminum 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 - <u>cast-forged-mach</u> from solid			
(**) 148. Crankshaft - type - <u>integral</u> - sectioned - # of sections			
(**) 149. Crankshaft, main bearings - number	five (5)		
(**) 150. Bearing cap - material/s	cast nodular iron		
151. Lubrication - system - <u>dry sump/oil in sump</u>			
152. Lubricant - capacity	5.67	ltrs	pts 6 qts US
( ) 153. Cooler, oil - <u>yes</u> no			
154. Cooling - method	water radiator		
155. Cooling - capacity of system	14.19	ltrs	pts 15.0 qts US

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1970 BOSS 302  
MAKE Ford Motor Co. MODEL Mustang FIA REC # 1589 M  
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G II

( ) 156. Fan, cooling (if fitted) - diameter 44.6 cm 17.56 in

( ) 157. Fan, cooling - number of blades 5 material/s

#### BEARINGS

(\*\*) 158. Crankshaft, main - type insert diameter 57.11 mm 2.249 in

(\*\*) 159. Connecting rod, big end - type insert diameter 53.93 mm 2.1232 in

#### WEIGHTS

( ) 160. Flywheel (clean) 9.07 kg 20.0 lbs  $\pm$  5%

( ) 161. Flywheel with clutch (all rotating parts) 30.3 kg 66.8 lbs  $\pm$  5%

( ) 162. Crankshaft 21.32 kg 47 lbs  $\pm$  5%

163. Connecting Rod .748 kg 1.65 lbs  $\pm$  5%

( ) 164. Piston with rings & pin .552 kg 1.216 lbs  $\pm$  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

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MAKE Ford Motor Co. MODEL 1970 BOSS 302 Mustang RIA REC # 1589

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BOSS  
302  
G II

EXHAUST (See Photo Q)

195. Manifold, exhaust - material/s cast iron
196. Valves (overall) - diameter 43.20 mm 1.70 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° EBC  
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 Draft
- ( ) 212. Make Holley
- ( ) 213. Model 9510
214. Carburetors - number of mixture passages Four (4)
- ( ) 215. Carburetor - flange hole diameter of exit port  
4.29 mm 1.687 in
216. Venturi - throat diameter+ 4.29 mm 1.687 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.

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MAKE Ford Motor Co. MODEL 1970 BOSS 302 Mustang FIA REC # 1589 M  
BOSS 302  
G II

ENGINE ACCESSORIES

- ( ) 230. Pump, fuel - mechanical and/or electrical  
231. Number fitted One (1)  
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 - front R.H. corner  
241. Voltage - volts 12 amp hrs 45

ENGINE & CAR PERFORMANCE as declared by mfr. in catalogue

- ( ) 250. Horsepower - maximum engine output 290 at 5800 rpm SAE  
(indicate SAE or DIN)  
( ) 251. RPM - maximum 5800 output at that figure 290  
( ) 252. Torque - maximum 290 at 4300 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 26.4 cm 10.4 in  
263. Linings - diameter - inside 14.92 cm 5.875 in  
Linings - diameter - outside 26.4 cm 10.4 in  
264. Method of operation mechanical

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MAKE Ford Motor Co. MODEL 1970 BOSS 302 Mustang FIA REC # 1589 M  
BOSS  
302  
G II

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 - 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					
2	1.93	$\frac{23}{30} \frac{31}{21}$	1.46					
3	1.36	$\frac{23}{30} \frac{25}{24}$	1.00					
4	1.00	Direct						
5								
6								
reverse	2.78	2.20						

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 4 pinion
- (\*\*) 292. Limited Slip Differential (if fitted) - type  $\neq$  Positive locking by clutch, ratchet or roller
293. Ratio 3.50
- Teeth - number  $\frac{35}{10}$

(  $\neq$  ) Specify friction or tooth type locking differential

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MAKE Ford Motor Co.1970 BOSS 302  
MODEL MustangFIA REC # 1589M  
BOSS  
302  
G II**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.

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 - R.H. & L.H.  
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	.94 in	24.2 mm
102.	Lining - Length	4.875 in	123 mm
103.	Lining - Width	1.81 in	45.97 mm
104.	Pads - no. per brake	Two (2)	
105.	Area - total per brake	17.65 in <sup>2</sup>	12,214. mm <sup>2</sup>

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Optional Equipment - CATALOGUE PART NUMBER MUST BE GIVEN

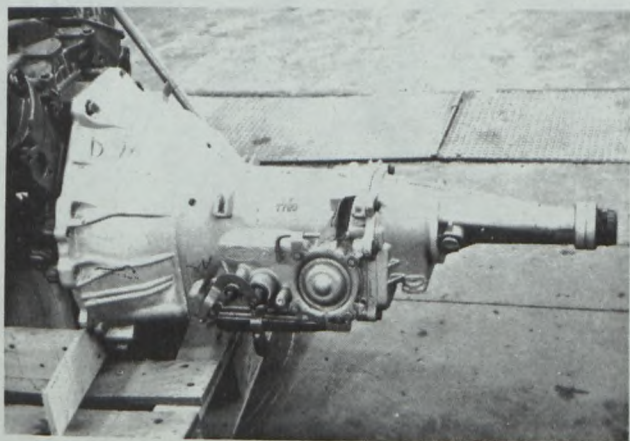
S8MR-2025-B Front disc brake kit - four piston, includes: 21 lbs.  
2 - Caliper assemblies - R.H. & L.H. (Piston Bore-1.625"-41.3 mm)  
2 - Brackets, caliper mounting - R.H. & L.H., lines, fittings and  
attaching parts

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 - R.H. & L.H.  
2 - Hubs, with required bearing assemblies, lines, fittings and  
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 <sup>2</sup>	13,147.3 mm <sup>2</sup>

7379029 Deletion option - Deletes all sealers, sound deadeners and  
outside trim.



Automatic Transmission Photo H



Interior with Automatic Transmission

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1970 BOSS 302  
 MAKE Ford Motor Co. MODEL Mustang FIA REC # 1589  
 M  
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 G II

Optional Equipment - CATALOGUE PART NUMBER MUST BE GIVEN  
 (Continued)

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 and 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
SK-37384	10.4" Metallic Clutch Disc
SK-37471	Clutch Pressure Plate Assy
KKX-3801-907-13	Front Spoiler
KKX-3849-907-13	" "
KKX-3361-41	Heavy Duty Competition Oil Pump
DOZX-7003-G-AL <u>Kit No. KKX-2860-41</u>	Transmission - Borg Warner with aluminum case
KKX-1990	Spindle
KKX-1983/4	Brake Caliper Mounting Brackets
KKX-2726/7	Brake Calipers - Front
C5VY-1102-C	Hub & Rotor Assembly
KKX-2864	Engine Compartment Cross Brace - Lower
KKX-2853	Engine Compartment Cross Brace - Upper

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302  
G II

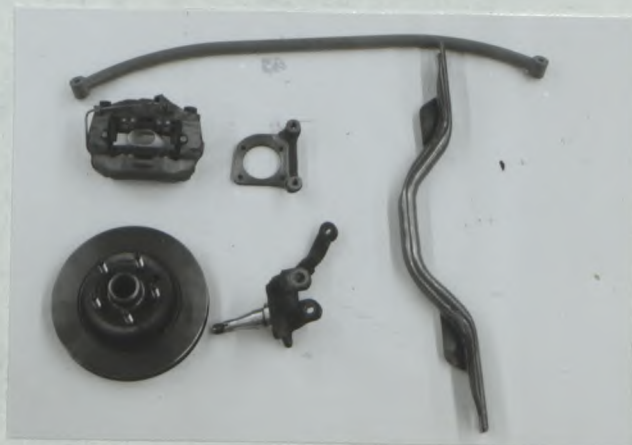
Optional Equipment - CATALOGUE PART NUMBER MUST BE GIVEN

(Continued)

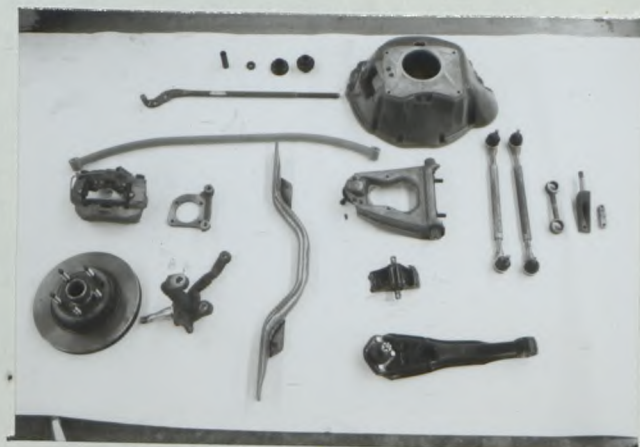
Kit Number:

KKX-2861-41

KKL 249	Front Hub Assembly
KKX-2254	Lower Control Arm L.H.
KKX-2392	Lower Control Arm R.H.
KKX-2585	Upper Control Arms
KKX-2758	Seat & Bushing Assembly Upper Arm
KKX-2696	Tie Strut & Pivot Assy R.H.
KKX-2697	Tie Strut & Pivot Assy L.H.
KKX-2691	Rod Assembly - Steering
KKX-2368	Tie Rod Assembly
KKX-2372	Idler Arm Assembly
KKX-2386	Engine Compartment Cross Brace - Lower
KKX-2853	Engine Compartment Cross Brace - Upper
DOZX-6200-A	Connecting Rod Assy
KKX-3856-907-13	Bellhousing - Explosion-Proof
DOZX-6A585-A	Rocker Arm - Valve



Kit KKX-2860-41



KKX-2861-41

STAMP



STAMP



MAKE Ford Motor Co.

1970 BOSS 302  
MODEL Mustang

FIA REC # 1589

M  
BOSS  
302  
G II

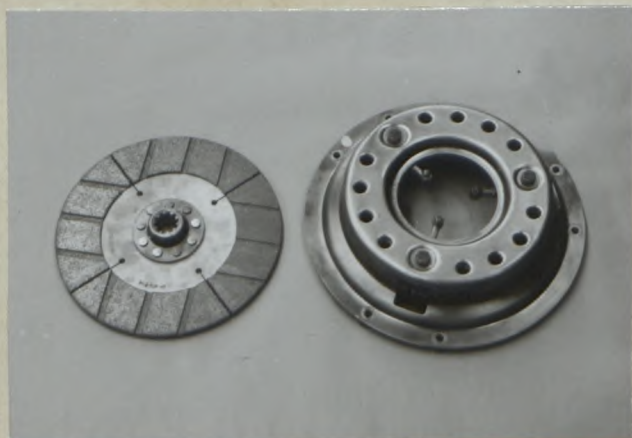
Optional Equipment - CATALOGUE PART NUMBER MUST BE GIVEN



Optional Rear Disc Brake with  
Protective Shield



Optional Front Disc Brake



Optional clutch - no modifications  
necessary to install



Front Valance Panel - 7 lbs.



Fuel Tank - 120 liters  
or 31.7 gallons

STAMP