



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

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

F
427
G II-68
1513
Group II

Federation Internationale de l'Automobile
FORM OF RECOGNITION

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

Cylinder capacity 6982,4 cm3 426.1 in3

Manufacturer FORD MOTOR COMPANY Model 1968 Torino

Serial # Chassis 8F63R100001 Manufacturer Ford Motor Company

Serial # Engine None Manufacturer Ford Motor Company

Recognition valid from 1st Jan 1968 List 1968/1

The manufacturing of the model described in this recognition form was started on August 23, 1967 and the minimum production of 1,000 identical cars, in accordance with the specifications of this form, was reached on November 30, 191967.

- (*) 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. Oliveau
JOHN V. OLIVEAU
TECHNICAL DIRECTOR



Stamp/Signature
F.I.A.

Robert Johnson

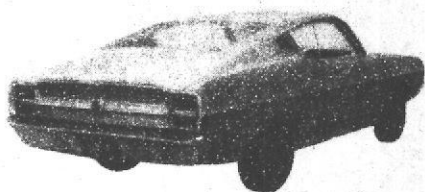
MAKE FORD

MODEL 1968 Torino 427

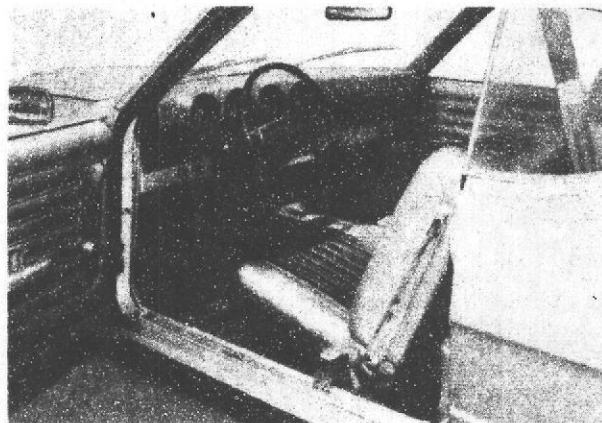
FIA REC # 1513

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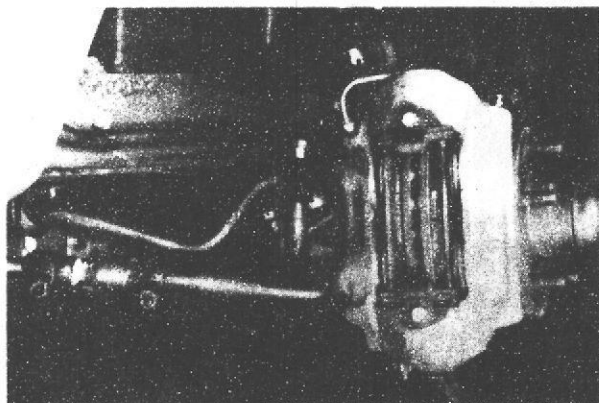
B 3/4 rear car (**)



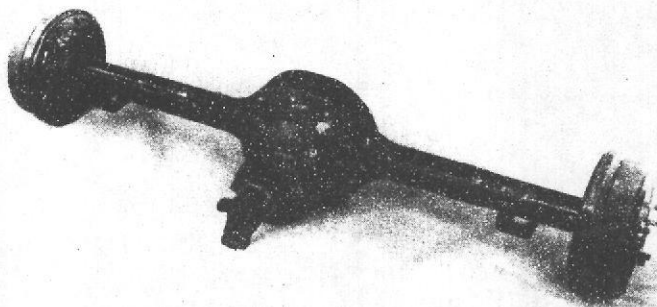
C interior-car (**)



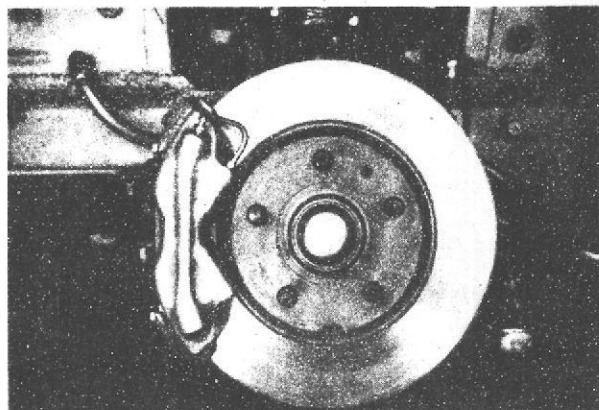
D front axle (**)



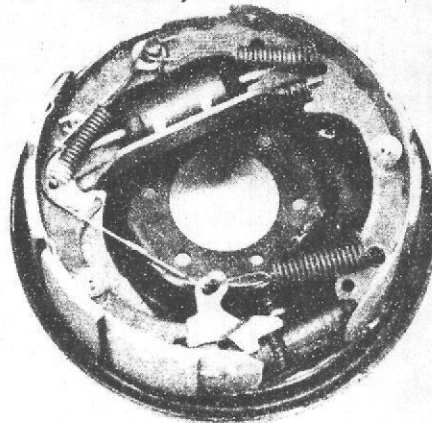
E rear axle (**)



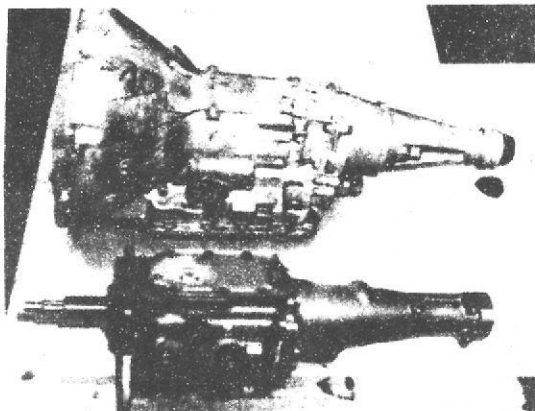
F brake, front (**)



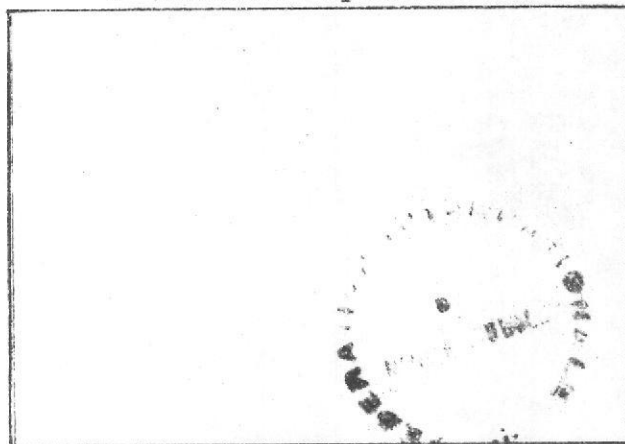
G brake, rear (**)



H gear box (**)



I exhaust system (*)



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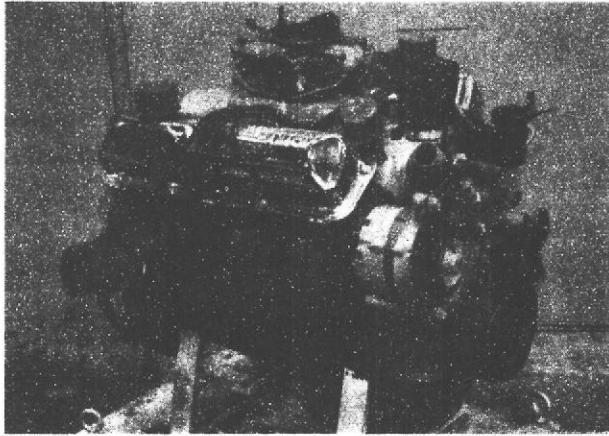
FORD

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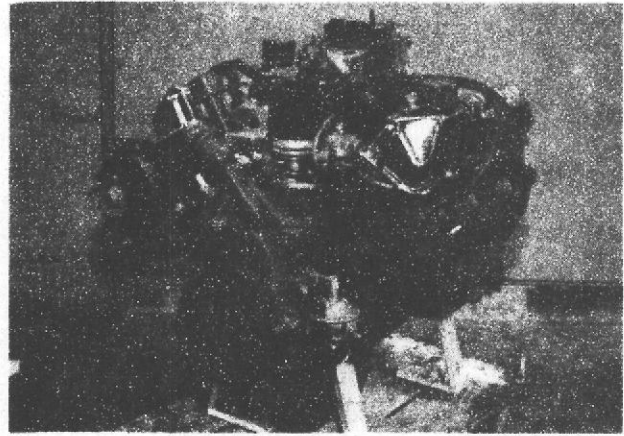
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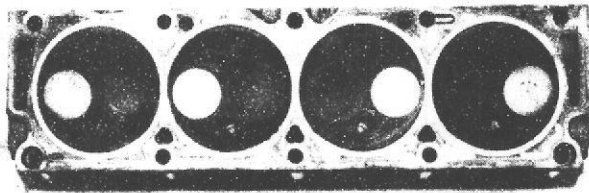
J ENGINE RIGHT (**)



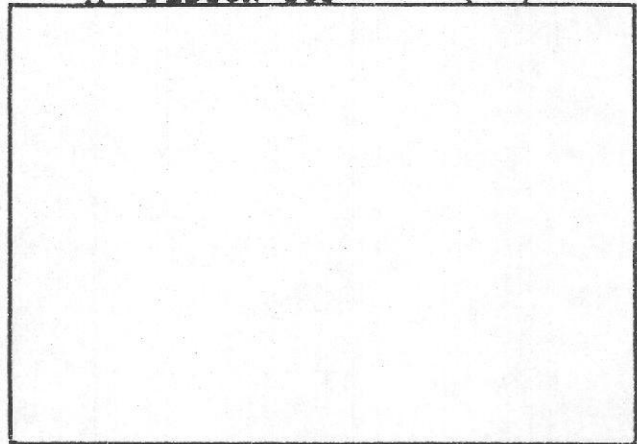
K ENGINE LEFT (**)



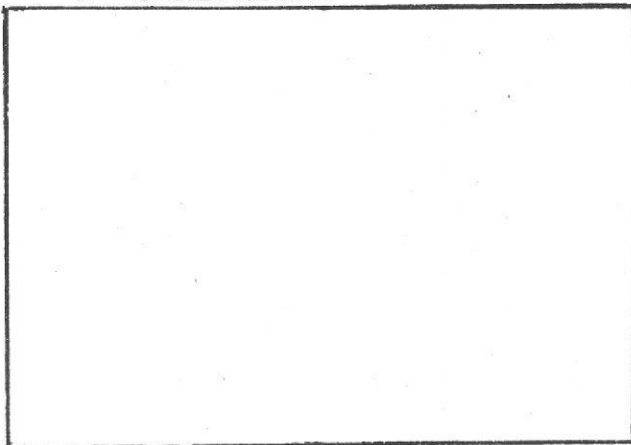
L COMBUSTION CHAMBER



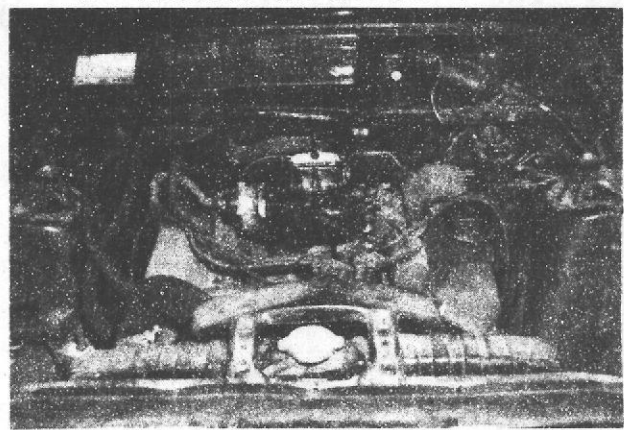
M PISTON TOP (*)



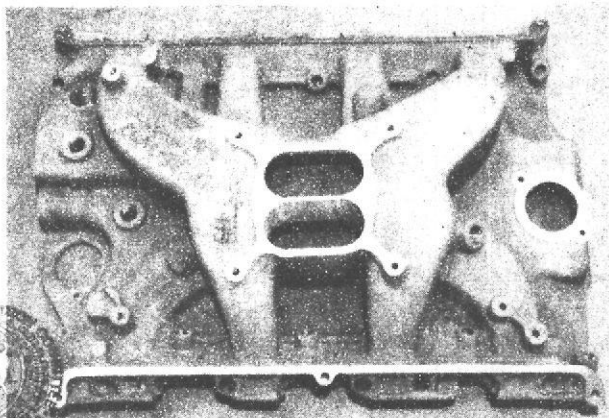
N CARBURETOR (*)



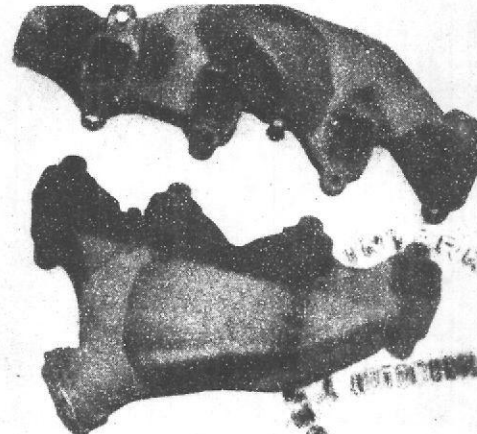
O ENGINE IN PLACE (**)



P MANIFOLD INLET



Q MANIFOLD EXHAUST



4.6
50 IN.
AREA
EA.

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

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

• Inlet

- Manifold
- Porting
- Cyl.
- Head
- Face

• Cylinder

- Head
- Porting
- Inlet
- Face

INFORMATION ON THIS PAGE DOES NOT

APPLY TO GROUP II CARS

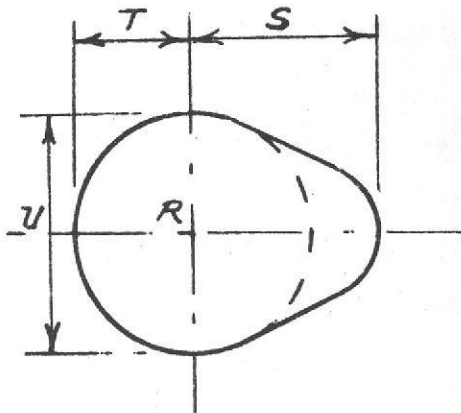
• Exhaust

- Manifold
- Porting
- Cyl. Head
- Face

• Cylinder

- Head
- Porting
- Exhaust
- Face

CAM



Inlet cam

S=	mm	in
T=	mm	in
U=	mm	in

Exhaust cam

S=	mm	in
T=	mm	in
U=	mm	in

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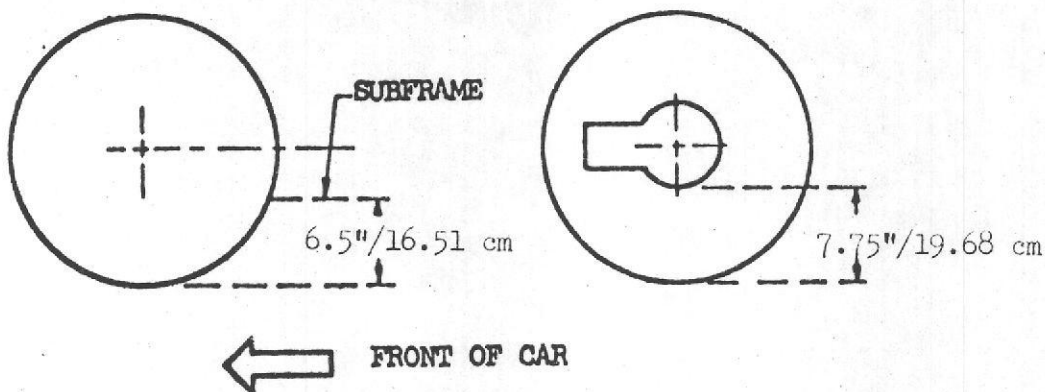
IMPORTANT: Questions 1 through 9 must be answered in two measuring systems, one of which must be the metric system.
See conversion table at index.

CAPACITIES & DIMENSIONS

- (**) 1. Wheelbase 2946.4 mm 116 in
 - (**) 2. Front track 1526.5 mm 60.1 in + at 0° camber -
 - (**) 3. Rear track 1518.9 mm 59.8 in + 0" toe-in
- + Differences in track resulting from use of optional * See Note Below
wheel and rim sizes must be stipulated on recognition
application forms. (For track with other wheels, see option page)

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 510.8 cm 201.1 in
- 5. Overall width of car 189.23 cm 74.5 in
- 6. Overall height of car 135.64 cm 53.4 in
- 7. Capacity of fuel tank (reserve included) 140/128.7/75.7 ltrs.
37/34/20 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.
1406.1 kg 3100 lbs



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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 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 DNA
- 31. Windows - actuating system Regulator
- 32. Window, rear quarter - material/s Glass

ACCESSORIES AND UPHOLSTERY

- 38. Heating, interior - yes no
- 39. Air conditioning - yes no
- 40. Ventilation - yes no
- *) 41. Seats, front - type of seat and upholstery Bucket - Vinyl
- 42. Seats, front - weight 14.8 Kg 32.5 Lbs EA
(complete with supports & rails out of car) ~~11.34 kg 25.00 lbs~~

CHECK: BENCH BUCKET X CONSOLE INCLUDED

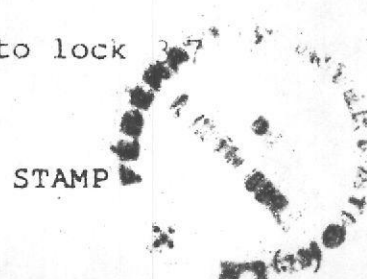
- 43. Seats, rear - type of seat and upholstery
- 44. Bumper, front - material/s Steel kg 11.34 lbs 25.00 Weight
- 45. Bumper, rear - material/s Steel kg 10.66 lbs 23.5 Weight

WHEELS

- 50. Type Steel or Magnesium
- 51. Weight (per wheel, without tire) 5.9 kg 13 lbs
- 52. Method of attachment Stud and Nut (five)
- 53. Rim, diameter 381 mm 15 in
- 54. Rim, width 178/203 mm 7/8 in

STEERING

- 60. Type Recirculating Ball and Nut
- 61. Servo assistance DNA
- 62. Number of turns of steering wheel from lock to lock
- 63. In case of servo assistance DNA



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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/Panhard Rod
- 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 DMA
- 92. Master Cylinders - number and type One - dual
(indicate if duplex master cylinder) Front Rear
- 93. Cylinders - number per wheel 4 1 or 4 (option)
- 94. Cylinders - wheel bore 49.2 mm 1.937 in 23 mm .906 in or
(indicate stepped bore dimensions if applicable) 41.3 mm 1.625 in.

Drum Brakes

- | | <u>Front</u> | <u>Rear</u> |
|------------------------------|--|--|
| 95. Diameter, inside | mm in 254 mm 10 in | |
| 96. Linings, length | mm in 495 mm 19.5 in | |
| 97. Linings, width | mm in 635 mm 2.5 in | |
| 98. Shoes - number per brake | | Two (2) |
| 99. Area, total - per brake | mm ² in ² 31,194 | mm ² in ² 248.75 in ² |

Disc Brakes

- | | | |
|------------------------------|--|--|
| 100. Diameter, outside | 303.8 mm 11.96 in | 287 mm 11.3 in |
| 101. Thickness of disc | 31.8 mm 1.25 in | 20.3 mm .8 in |
| 102. Lining - length | 136.1 mm 5.36 in | 123 mm 4.875 in |
| 103. Lining - width | 48.3 mm 1.90 in | 45.7 mm 1.81 in |
| 104. Pads - number per brake | Two (2) | Two (2) |
| 105. Area, total - per brake | 13,147.3 mm ² 20.36 in ² | 12,214 mm ² 17.65 in ² |



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(**) 130. Cycle two four Wankel

(**) 131. Cylinders - number Eight (8)

(**) 132. Cylinders - arrangement Vee Wankel - # of elements and basic dimensions

(**) 133. Bore 107.56 mm 4.23 in

(**) 134. Stroke 96.11 mm 3.78 in

(**) 135. Cylinders - capacity 872.8 cm3 53.26 in3

(**) 136. Cylinders, total capacity 6982.4 cm3 426.1 in3

(**) 137. Cylinder Block - material/s Cast Iron

(**) 138. Sleeves - material/s (if fitted) DNA

(**) 139. Head, cylinder - material/s Cast Iron number fitted Two (2)

(**) 140. Port, inlet - number Eight (8) - Four (4) per head

(**) 141. Port, exhaust - number Eight (8) - Four (4) per head

(*) 142. Compression - ratio DNA

(*) 143. Combustion chamber - volume cm3 in3 DNA

(*) 144. Piston - material/s DNA

(*) 145. Rings - number DNA

(*) 146. Distance from gudgeon pin centre line to highest point of piston crown mm in DNA

(**) 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 5.68 ltrs pts 6 qts US

(*) 153. Cooler, oil - yes no DNA

154. Cooling - method Water Radiator

155. Cooling - capacity of system 19.39 ltrs pts 20.5 qts US



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- (*) 156. Fan, cooling (if fitted) - diameter cm in DNA
- (*) 157. Fan, cooling - number of blades material/s DNA

BEARINGS

- (**) 158. Crankshaft, main - type Insert diameter 69.819 mm 2.7488 in
- (**) 159. Connecting rod, big end - type Insert diameter 61.935 mm 2.4388 in

WEIGHTS

- (*) 160. Flywheel (clean) kg lbs DNA
- (*) 161. Flywheel with clutch (all rotating parts) kg lbs DNA
- (*) 162. Crankshaft kg lbs DNA
- 163. Connecting Rod kg lbs DNA
- (*) 164. Piston with rings & pin kg lbs DNA

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, Push Rod, Rocker

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

- 180. Inlet manifold - materials Aluminum
- 181. Valves (overall) - diameter 55.75 mm 2.195 in
- (*) 182. Valve lift - maximum mm in DNA
- 183. Springs, valve - number Two (2)
- 184. Spring - type Coil
- (**) 185. Valves, per cylinder - number One (1)
- (*) 186. Tappet - clearance for checking timing (cold) mm DNA in
- (*) 187. Valves - open at (with tolerance for tappet clearance indicated) DNA
- (*) 188. Valves - close at (with tolerance for tappet clearance indicated) DNA
- (*) 189. Air filter - type DNA

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EXHAUST (See Photo Q)

- 195. Manifold, exhaust - material/s Cast Iron
- 196. Valves (overall) - diameter 44.02 mm 1.733 in
- 197. Valve, lift - maximum mm in DNA
- 198. Valve Springs/valve - number Two (2)
- 199. Springs - type Coil
- (**) 200. Valves - number per cylinder One (1)
- (*) 201. Tappet - clearance for checking timing (cold) DNA
mm in
- (*) 202. Valves - open at (with tolerance for tappet clearance indicated) DNA
- (*) 203. Valves - close at (with tolerance for tappet clearance indicated) DNA

CARBURETION (See Photo N)

- 210. Carburetors, fitted - number One (1)
- 211. Type 4V - down draft
- (*) 212. Make DNA
- (*) 213. Model DNA
- 214. Carburetors - number of mixture passages Four (4)
- (*) 215. Carburetor - flange hole diameter of exit port DNA
mm in
- 216. Venturi - throat diameter+ mm in DNA

INJECTION

- 220. Pump - make
- 221. Plungers - number
- (*) 222. Pump - model NONE FITTED
- 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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ENGINE ACCESSORIES

- (*) 230. Pump, fuel - mechanical and/or electrical 1
231. Number fitted One (1) each type - 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 (Vee)
238. Voltage, generator - volts 12.8
239. Battery - number One (1)
240. Location Rear of Car
241. Voltage - volts 12 amp hrs 55

ENGINE & CAR PERFORMANCE as declared by mfr. in catalogue

- (*) 250. Horsepower - maximum engine output at rpm DNA
(indicate SAE or DIN)
(*) 251. RPM - maximum output at that figure DNA
(*) 252. Torque - maximum at rpm DNA
(*) 253. Speed - maximum km/hour miles/hour DNA

DRIVE TRAIN

Clutch

260. Type Dry Plate
261. Plates - number of driven One (1)
262. Plates - diameter 29.2 cm 11.5 in
263. Linings - diameter - inside 17.78 cm 7 in
Linings - diameter - outside 29.2 cm 11.5 in
264. Method of operation Mechanical

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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 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	2.32	$\frac{23}{25} \frac{32}{15}$	2.46		2.32	$\frac{23}{25} \frac{32}{15}$	2.22	$\frac{23}{24} \frac{32}{15}$
2	1.69	$\frac{23}{25} \frac{28}{18}$	1.46		1.54	$\frac{23}{25} \frac{27}{19}$	1.43	$\frac{23}{24} \frac{26}{19}$
3	1.29	$\frac{23}{25} \frac{25}{21}$	1.00		1.19	$\frac{23}{25} \frac{24}{22}$	1.19	$\frac{23}{24} \frac{24}{21}$
4	1.00	Direct			1.00	Direct	1.00	Direct
5								
6								
reverse			2.175					

- 278. Overdrive - type DNA
- 279. Forward gears on which overdrive can be selected DNA
- 280. Overdrive - ratio DNA

FINAL DRIVE

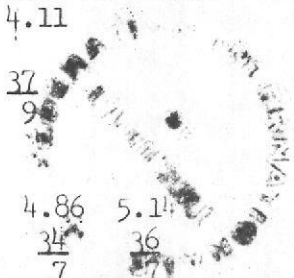
- (**) 290. Type Hypoid - Semi-Floating, straddle mounted pinion
- (**) 291. Differential - type Locking by Ratchet or Roller
- (**) 292. Limited Slip Differential (if fitted) - type Positive Locking by Ratchet or Roller
- 293. Ratio 3.0 3.10 3.25 3.40 3.50 3.70 3.89 4.11

Teeth - number $\frac{39}{13} \frac{31}{10} \frac{39}{12} \frac{34}{10} \frac{35}{10} \frac{37}{10} \frac{35}{9} \frac{37}{9}$

(/) Specify friction or positive locking type



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4.33 4.57 4.71 4.86 5.14
 $\frac{39}{9} \frac{32}{7} \frac{33}{7} \frac{34}{7} \frac{36}{7}$



MAKE FORD

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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

- S7MR-6650-B Differential Cooler Kit, includes: **10.9 Lls CAP 1.3 qt**
 - 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: **6.2 Lls CAP .9 qt**
 - 1 - Radiator - oil
 - 1 - Duct - air and flange assembly
 - 1 - Plenum Box
 - 1 - Pump - oil circulating
 - Required lines, fittings, and attaching hardware
- S1MR-61615-A Bucket Seat Assembly, Driver and Passenger - 12 pounds each
- 7379020 Deletion Option - deletes all sealers, sound deadeners and exterior trim.

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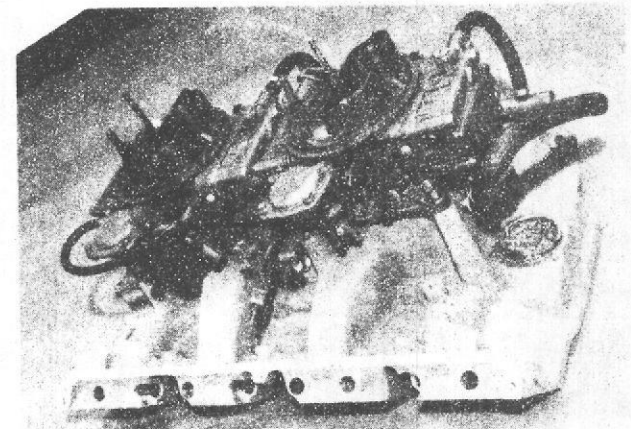
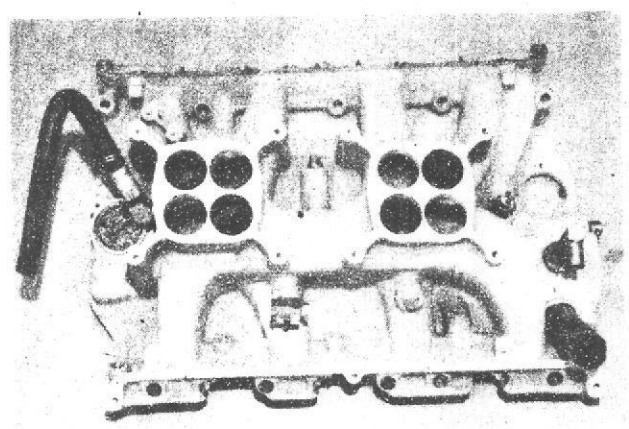
Optional Equipment - CATALOGUE PART NUMBER MUST BE GIVEN

S8MR-1103-A Knock-off Wheel and Hub Kit, includes: **78 Lgs**
4 - Hubs
4 - Nuts - quick-off
4 - Wheels
Required attaching hardware

S8MR-2025-A Rear Disc Brake Kit, includes: **65 Lgs**
2 - Brake Discs
1 - Caliper assembly - disc brake, R.H. rear
1 - Caliper assembly - disc brake, L.H. rear
1 - Bracket, caliper mount - R.H.
1 - Bracket, caliper mount - L.H.
Required lines, fittings and attaching parts

S8MR-5790-A Watts Link - rear axle

C6AZ-6B068-B 8V Induction Kit, includes: **54.5 Lgs**



S8MK-2120-A Front Disc Brake Kit, includes: **63 Lgs**
2 - Brake Discs
1 - Caliper assembly, disc brake, R.H. front
1 - Caliper assembly, disc brake, L.H. front
1 - Bracket, caliper mount - R.H.
1 - Bracket, caliper mount - L.H.
Required lines, fittings and attaching parts

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MAKE: FORD MODEL: 1968 Torino 427 FIA REC # 1513

Applicable Dimensions:

100 Diameter, outside	287 mm	11.3 in.
101 Thickness of Disc	20.3 mm	.8 in.
102 Lining - length	123 mm	4.815 in.
103 Lining - width	45.97 mm	1.81 in.
104 Pads - number per brake	Two (2)	
105 Area, total - per brake	12,214 mm	17.65 in. 2

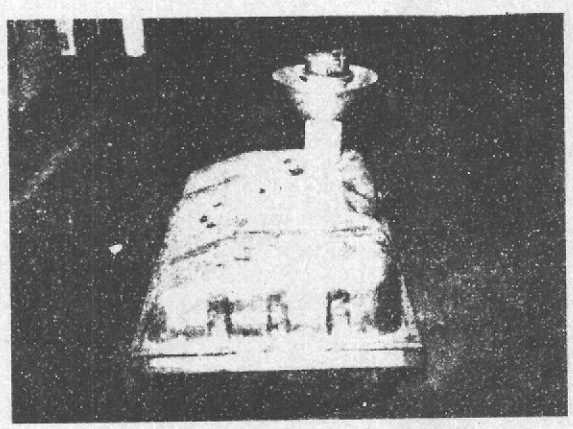
Alternate Wheel

		Track	
		Front	Rear
S7MR-1007-H/J	15" x 8" - 381 mm x 381 mm	60.6	59.0

Optional Wheels

C7ZZ-1007-D	15" x 6" - 381 mm x 152.4 mm	58.4	58.1
S7MR-1007-M/N	15" x 9" - 381 mm x 228.6 mm	61.1	58.0
S8MR-1007-A/B	15" x 10" - 381 mm x 254 mm	61.1	58.0

15.5 Lbs 7. kg



37 GAL. GAS TANK WITH
EXTERNAL FILLER ASSY.

36 Lbs

