



PONTIAC - FIREBIRD

MARQUE ET MODELE

6/73 -

VALIDITE HOMOLOGATION

1652

FICHE NR.

2 /  $\frac{1000}{7500}$

GROUPE / CLASSE

EXTENSIONS	DEBUT VALIDITE	DESCRIPTION	NOTES
1/1V	6/73	MOTEUR 7400CC - MODELE 300CV	Manque
2/2V	6/73	MOTEUR 7400CC MODELE 335CV	Manque

Autres homologations du modèle

Vérifiée le 8/12/95 par *[Signature]* visée ce jour le \_\_\_\_\_ par \_\_\_\_\_



FEDERATION INTERNATIONALE DE L'AUTOMOBILE

PONTIAC - FIREBIRD TRANS AM

MARQUE ET MODELE

6/73

VALIDITE HOMOLOGATION

1652

FICHE NR.

2 / 700

GRUPE / CLASSE

EXTENSIONS	DEBUT VALIDITE	DESCRIPTION	NOTES
1/1 V	6/73	MODELE AVEC MOTEUR 7400 cc	
2/2 V	6/73	4          2          1          5	

Autres homologations du modèle

Vérifiée le 18/05/96 par [Signature] visée ce jour le \_\_\_\_\_ par \_\_\_\_\_



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

432 MAIN ST.  
STAMFORD, CONN. 06321  
(203) 345-4238

FIA NO. 1652  
GROUP II

Federation Internationale de l'Automobile  
FORM OF RECOGNITION

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

Cylinder capacity 6552 cm3 400 in3

Manufacturer Pontiac Model Firebird

Serial # Chassis 22487 Manufacturer Pontiac

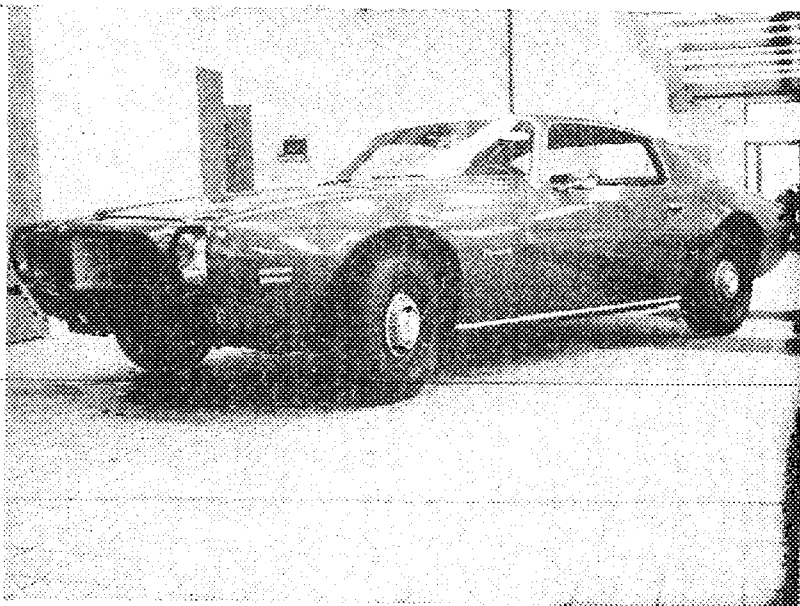
Serial # Engine Same Manufacturer Pontiac

Recognition valid from \_\_\_\_\_ List \_\_\_\_\_

The manufacturing of the model described in this recognition form was started on 1/5/70 and the minimum production of \_\_\_\_\_ identical cars, in accordance with the specifications of this form, was reached on \_\_\_\_\_, 19\_\_\_\_.

(\*\*) 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  
ACCUS, FIA, INC.



MAKE

PONTIAC

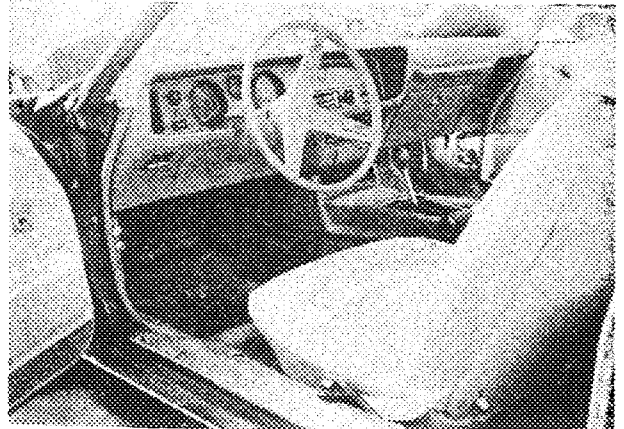
MODEL FIREBIRD

FIA REC #

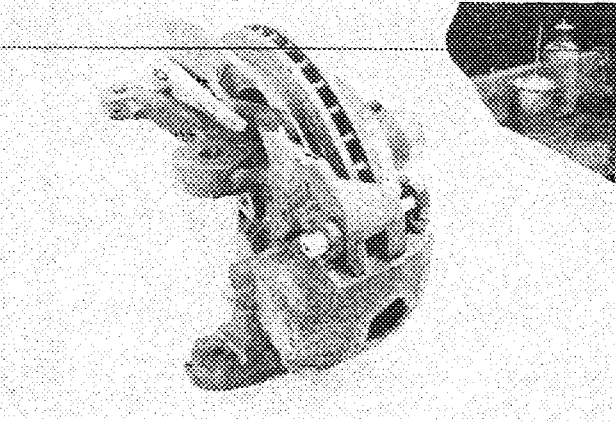
B 3/4 rear car (\*\*)



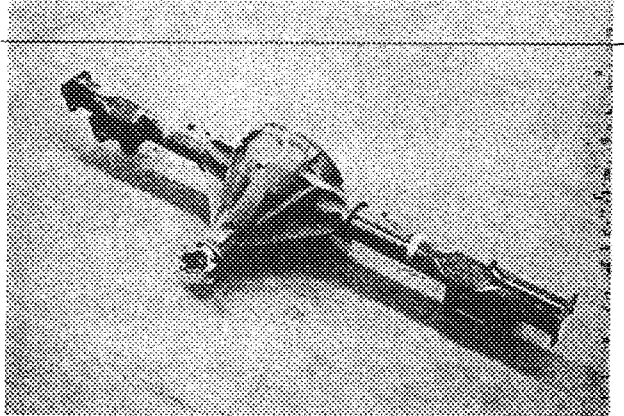
C interior-car (\*\*)



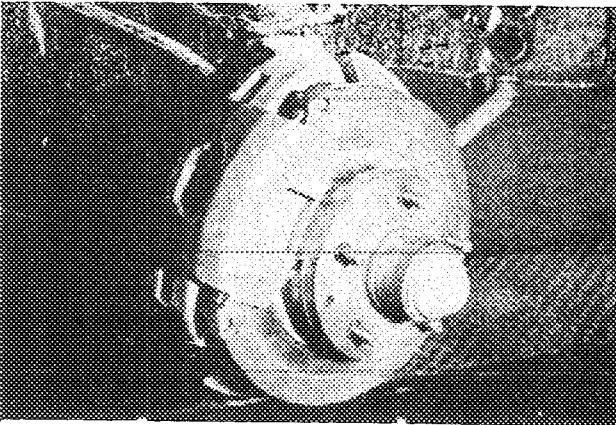
D front axle (\*\*)



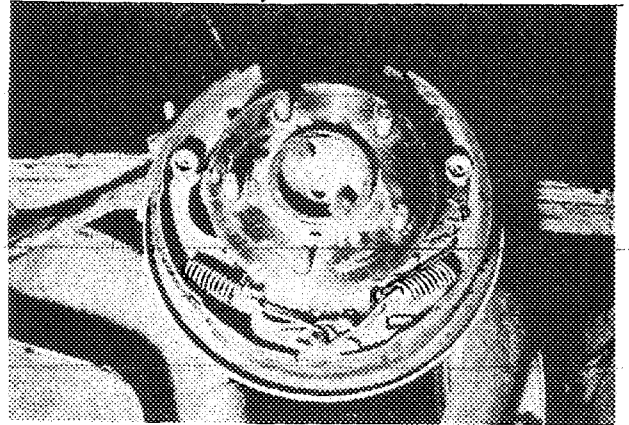
E rear axle (\*\*)



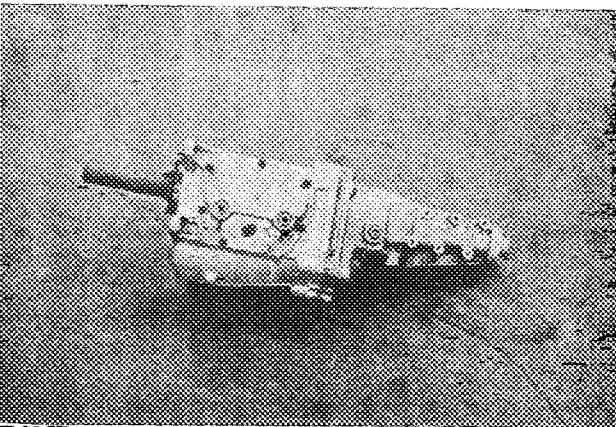
F brake, front (\*\*)



G brake, rear (\*\*)



H gear box (\*\*)



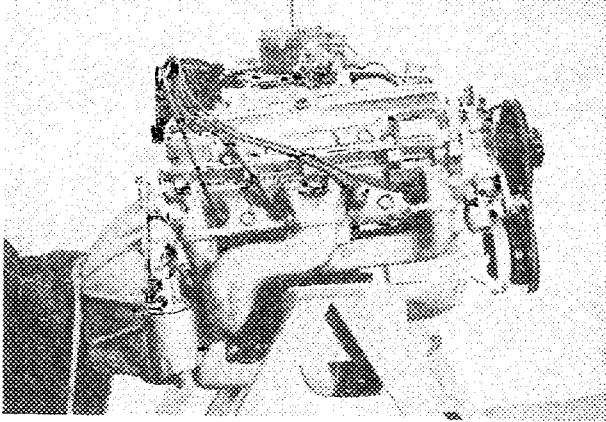
I exhaust system ( )

STAMP

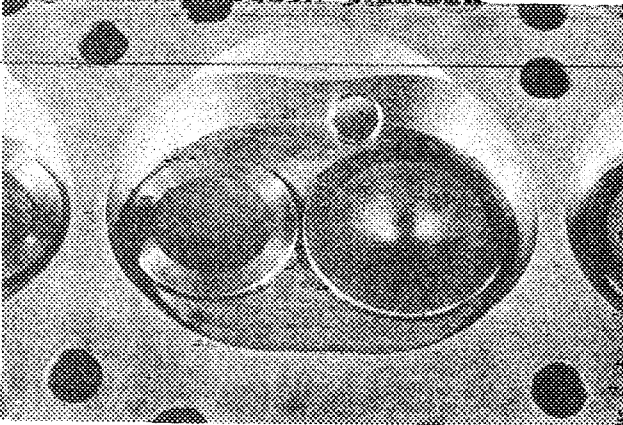


MAKE PONTIAC  
J ENGINE RIGHT (\*\*)

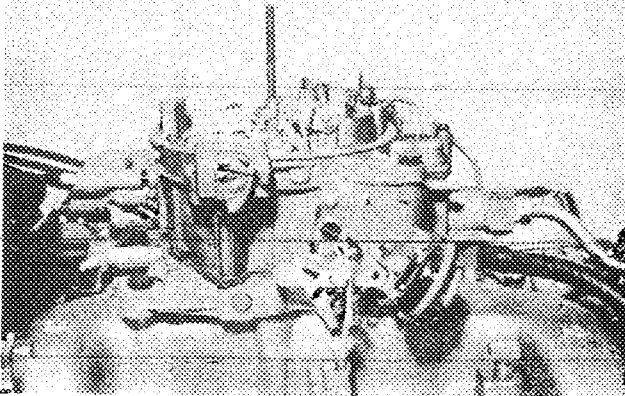
MODEL FIREBIRD  
FIA REC # \_\_\_\_\_  
K ENGINE LEFT (\*\*)



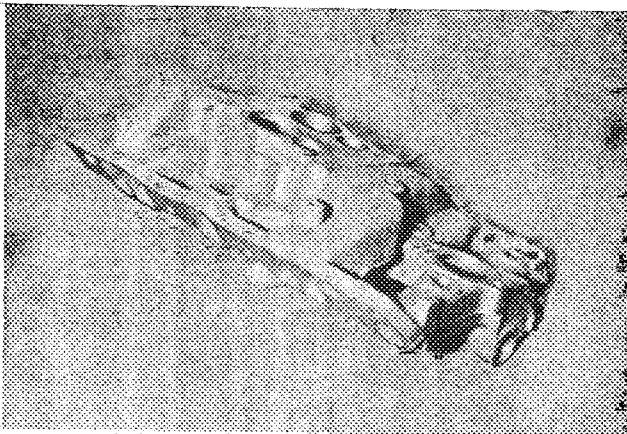
L COMBUSTION CHAMBER ( )



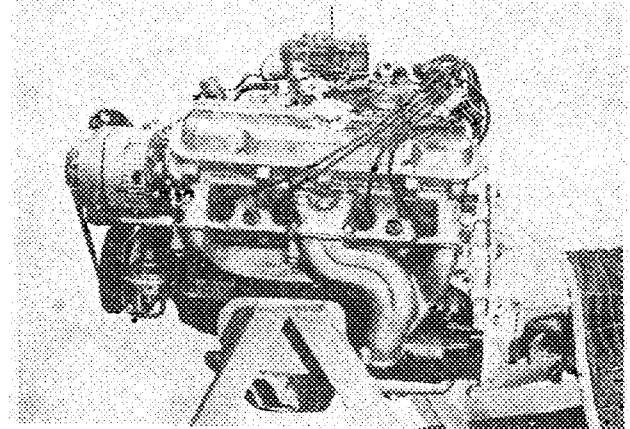
N CARBURETOR ( )



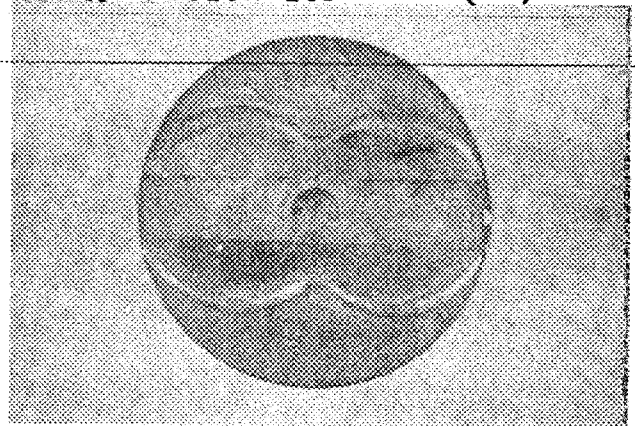
P MANIFOLD INLET



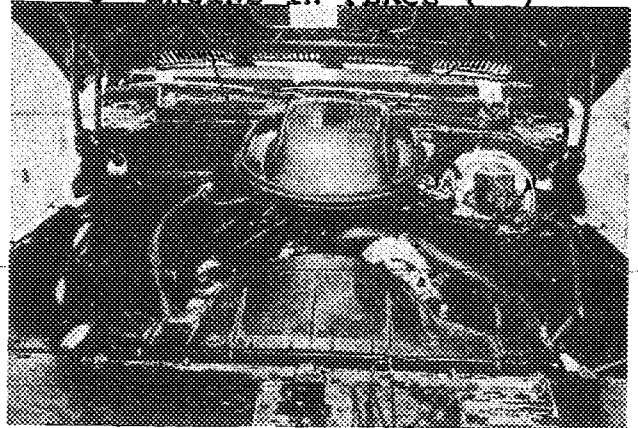
STAMP



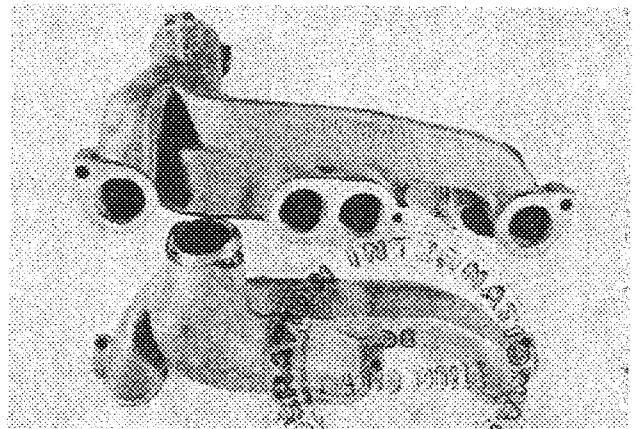
M PISTON TOP ( )



O ENGINE IN PLACE (\*\*)



Q MANIFOLD EXHAUST



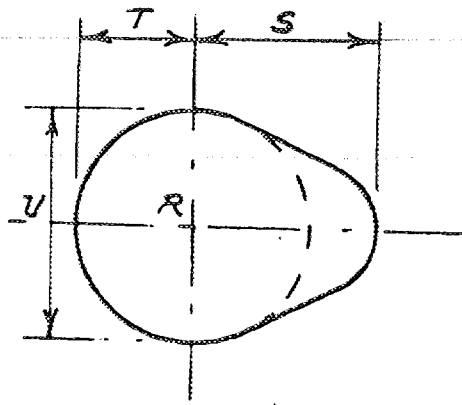
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ALL SKETCHES MUST INDICATE ACTUAL DIMENSIONS AND MANUFACTURER'S TOLERANCES.

Inlet	
Manifold	
Porting	
Cyl.	
Head	
Face	
Cylinder	
Head	
Porting	
Inlet	
Face	
Exhaust	
Manifold	
Porting	
Cyl. Head	
Face	
Cylinder	
Head	
Porting	
Exhaust	
Face	

SEE PAGE (4A)

CAM



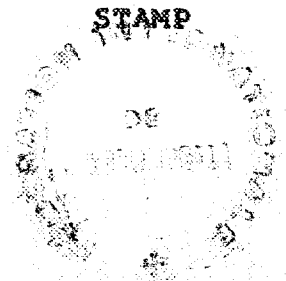
Inlet cam

S=	mm	.939 in
T=	mm	.667 in
U=	mm	1.334 in

Exhaust cam

S=	mm	.9386 in
T=	mm	.667 in
U=	mm	1.334 in

STAMP





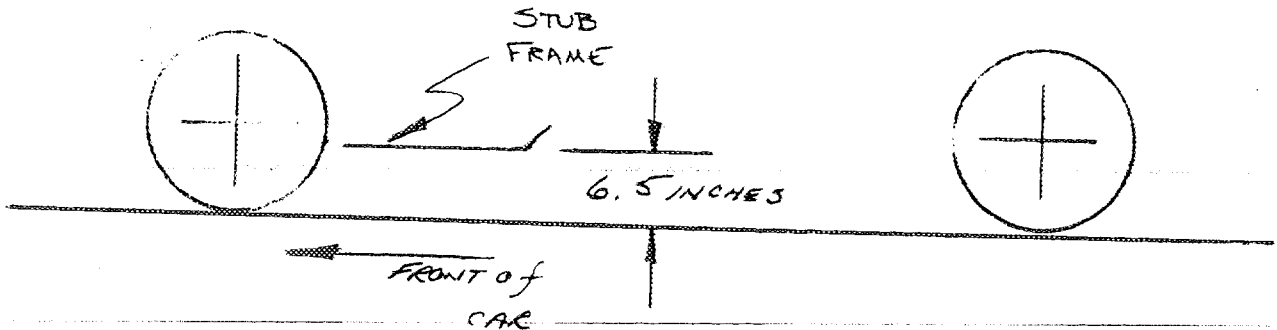
**IMPORTANT:** Questions 1 through 9 must be answered in two measuring systems, one of which must be the metric system. See conversion table at index.

CAPACITIES & DIMENSIONS

- (\*\*) 1. Wheelbase 2750 mm 108 in
  - (\*\*) 2. Front track 1560 mm 61.7 in +
  - (\*\*) 3. Rear track 1530 mm 60.4 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 485 cm 191.6 in
- 5. Overall width of car 186 cm 73.4 in
- 6. Overall height of car 128 cm 50.4 in
- 7. Capacity of fuel tank (reserve included) 73.5 ltrs.  
gallons US 19.5 gallons, Imp. 16.2
- 8. Seating capacity 4
- (\*\*) 9. Weight - total weight of car with normal equipment, water, oil and spare wheel but without fuel or repair tools. 1740 kg 3611 lbs

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CHASSIS & BODYWORK - Photos A, B, C

- (\*\*) 20. Chassis/body construction - separate/unit construction
- (\*\*) 21. Unit construction - material/s Body - Frame integral and separate  
frame stamped steel
- (\*\*) 22. Chassis - material/s steel separate construction
- (\*\*) 23. Body - material/s steel separate construction
- (\*\*) 24. Doors - number 2 material/s steel
- (\*\*) 25. Hood - material/s steel
- (\*\*) 26. Trunk Lid - material/s steel
- 27. Window, Rear - material/s tempered glass
- 28. Windshield - material/s laminated safety plate glass
- 29. Windows, front door - material/s tempered glass
- ~~30. Windows, rear door - material/s tempered glass~~
- 31. Windows - actuating system sector gear and linkage
- 32. Window, rear quarter - material/s none

ACCESSORIES AND UPHOLSTERY

- 38. Heating, interior - yes no optional
- 39. Air conditioning - yes no optional
- 40. Ventilation - yes X no
- ( ) 41. Seats, front - type of seat and upholstery bucket-vinyl
- 42. Seats, front - weight  
(complete with supports & rails out of car) 20.7kg 46 lbs
- CHECK: BENCH            BUCKET X            CONSOLE INCLUDED NO
- 43. Seats, rear - type of seat and upholstery bucket - vinyl
- 44. Bumper, front - material/s steel/  
rubber kg 11.3lbs 25 Weight
- 45. Bumper, rear - material/s steel kg 7.15lbs 15.6 Weight

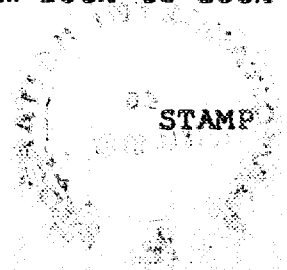
WHEELS

- 50. Type pressed steel
- 51. Weight (per wheel, without tire) kg 25 lbs
- 52. Method of attachment 5 - lug nuts and studs
- 53. Rim, diameter 380 mm 15 in
- 54. Rim, width 178 mm 7 in

STEERING

- 60. Type Recirculating Ball
- 61. Servo assistance Hydraulic (Manual Optional)
- 62. Number of turns of steering wheel from lock to lock 5.4
- 63. In case of servo assistance 2.50

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SUSPENSION

- (\*\*) 70. Suspension, front (photo D) - type Short & Long Arm Independent
- (\*\*) 71. Spring - type Coil
- ( ) 72. Stabilizer - if fitted 1.250 dia. front (1.125 optional)
- 73. Shock absorbers - number 2
- 74. Type Direct Acting - Telescoping
- (\*\*) 78. Suspension, rear (photo E) - type Hotchkiss
- (\*\*) 79. Spring - type Leaf
- ( ) 80. Stabilizer - if fitted .875 dia. Rear (.625 optional)
- 81. Shock absorbers - number 2
- 82. Type Direct Acting Telescoping

BRAKES (Photos E and F)

- (\*\*) 90. Method of operation Foot pedal hydraulic
- ( ) 91. Power assisted (if fitted) - type Vacuum Assist (Manual Optiona
- 92. Master Cylinders - number and type One Duplex  
(indicate if duplex master cylinder) Front Rear
- 93. Cylinders - number per wheel One One
- 94. Cylinders - wheel bore mm 2.9375 in mm .875 in  
(indicate stepped bore dimensions if applicable)

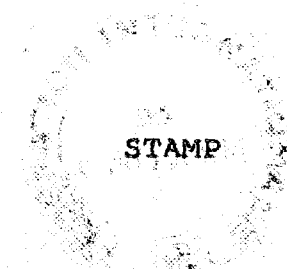
Drum Brakes

	<u>Front</u>	<u>Rear</u>
95. Diameter, inside	mm in 242mm	9.5in
96. Linings, length	mm N.A.	in 434mm 17.45in
97. Linings, width	mm in 508mm	2.0in
98. Shoes - number per brake		Two
99. Area, total - per brake	mm2 in2 44900	mm2 69.8in2

Disc Brakes

100. Diameter, outside	277 mm 10.94in	mm	in
101. Thickness of disc	26.2 mm 1.035 in	mm N.A.	in
102. Lining - length	103.7 mm 5.40 in	mm	in
103. Lining - width	49.0 mm 1.93 in	mm	in
104. Pads - number per brake	Two		
105. Area, total - per brake	1320 mm2 20.6in2	mm2	in2

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MAKE PONTIAC MODEL \_\_\_\_\_ FIA REC # \_\_\_\_\_ENGINE (Photos J and K)

(\*\*) 130. Cycle two four X Wankel

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

(\*\*) 132. Cylinders - arrangement  $\gamma$  Wankel - # of elements and basic dimensions

(\*\*) 133. Bore 10.47 mm  $\frac{4.120}{4.124}$  in

(\*\*) 134. Stroke 9.525 mm  $\frac{3.746}{3.754}$  in

(\*\*) 135. Cylinders - capacity 819.35 cm<sup>3</sup> 50 in<sup>3</sup>

(\*\*) 136. Cylinders, total capacity 6552 cm<sup>3</sup> 400 in<sup>3</sup>

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

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

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

(\*\*) 140. Port, inlet - number Eight (8)

(\*\*) 141. Port, exhaust - number Eight (8)

( ) 142. Compression - ratio 10.0 to 1

( ) 143. Combustion chamber - volume 62 cm<sup>3</sup> 3.78 in<sup>3</sup>

( ) 144. Piston - material/s Alum inum

( ) 145. Rings - number Three (3)

( ) 146. Distance from gudgeon pin centre line to highest point of piston crown 43.6 mm  $\frac{1.718}{1.7222}$  in

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(\*\*) 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 12 pts 6 qts US

( ) 153. Cooler, oil - yes no

154. Cooling - method Water

155. Cooling - capacity of system 19.0 ltrs 40.6 pts 20.3 qts US

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MAKE PONTIAC MODEL FIREBIRD FIA REC # \_\_\_\_\_

- ( ) 156. Fan, cooling (if fitted) - diameter 47.75 cm 18.8 in
- ( ) 157. Fan, cooling - number of blades Five(5) material/s Steel

BEARINGS

- (\*\*) 158. Crankshaft, main - type Steel diameter 76.2 mm 3.00 in  
Aluminum on
- (\*\*) 159. Connecting rod, big end - type Aluminum steel diameter 57.2 mm 2.250 in  
on

WEIGHTS

- ( ) 160. Flywheel (clean) 15.7 kg 34 lbs
- ( ) 161. Flywheel with clutch (all rotating parts) kg 54.5 lbs
- ( ) 162. Crankshaft 31 kg 65 lbs
- 163. Connecting Rod kg 1.75 lbs
- ( ) 164. Piston with rings & pin kg 1.38 lbs

FOUR CYCLE ENGINES

- (\*\*) 170. Camshafts - number One material/s cast alloy iron
- (\*\*) 171. Camshaft - location Cylinder Block
- (\*\*) 172. Camshaft Drive, type Chain & Sprocket
- (\*\*) 173. Valve operation - type Push Rod

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

- 180. Inlet manifold - materials Iron
- 181. Valves (overall) - diameter 53.7 mm 2.113 in
- ( ) 182. Valve lift - maximum 10.5 mm .413 in
- 183. Springs, valve - number 2/Valve
- 184. Spring - type Coil
- (\*\*) 185. Valves, per cylinder - number One
- ( ) 186. Tappet - clearance for checking timing (cold) mm N.A. in
- ( ) 187. Valves - open at (with tolerance for tappet clearance indicated) 38° BTDC  
.002" @ Valve
- ( ) 188. Valves - close at (with tolerance for tappet clearance indicated) 83° ABDC  
.008" @ Valve
- ( ) 189. Air filter - type Paper

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EXHAUST (See Photo Q)

195. Manifold, exhaust - material/s Cast Iron
196. Valves (overall) - diameter 45 mm 1.773 in
197. Valve, lift - maximum 10.5 mm .413 in
198. Valve Springs/valve - number 2/Valve
199. Springs - type Coil
- (\*\*) 200. Valves - number per cylinder One
- ( ) 201. Tappet - clearance for checking timing (cold) N.A.  
mm in
- 
- ( ) 202. Valves - open at (with tolerance for tappet 95° BBDC  
clearance indicated) .002" @ Valve
- ( ) 203. Valves - close at (with tolerance for tappet 38° ATDC  
clearance indicated) .008" @ Valve

CARBURETION (See Photo N)

210. Carburetors, fitted - number One
211. Type Downdraft
- ( ) 212. Make Rochester
- ( ) 213. Model 4 MV
214. Carburetors - number of mixture passages 4
- ( ) 215. Carburetor - flange hole diameter of exit port  
35 mm 1.38 in Primary  
55.2 mm 2.25 in Secondary  
1.00 in Primary  
No Secondary Venturi

INJECTION N.A.

220. Pump - make
221. Plungers - number
- ( ) 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 PONTIAC MODEL FIREBIRD FIA REC #                     

ENGINE ACCESSORIES

- ( ) 230. Pump, fuel - mechanical and/or electrical  
231. Number fitted One  
232. Ignition system - type Coil  
233. Distributors - number One  
234. Coils, ignition - number One  
235. Spark plugs - number per cylinder One  
236. Generator (or Alternator) - number fitted One

- 
237. Drive - method Belt (V-Type)  
238. Voltage, generator - volts 12  
239. Battery - number One  
240. Location Engine compartment  
241. Voltage - volts 12 amp hrs 45

ENGINE & CAR PERFORMANCE as declared by mfr. in catalogue

- ( ) 250. Horsepower - maximum engine output 345 at 5000 rpm  
(indicate SAE or DIN)  
( ) 251. RPM - maximum 5000 output at that figure 345 MP  
( ) 252. Torque - maximum 430 lb.ft at 3400 rpm  
( ) 253. Speed - maximum km/hour 125 miles/hour

---

DRIVE TRAIN

Clutch

260. Type Dry plate  
261. Plates - number of driven One  
262. Plates - diameter 26.5 cm 10.4 in  
263. Linings - diameter - inside 16.5 cm 6.5 in  
Linings - diameter - outside 26.5 cm 10.4 in  
264. Method of operation Mechanical - Foot

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Gear Box (Photo H)

- (\*\*) 270. Manual type - make GM - Muncie
- (\*\*) 271. Ratios, forward - number Four
- 272. Ratios, forward - number synchronized Four
- 273. Gear-Shift - location Floor optional
- (\*\*) 274. Automatic - make GM type Turbo Hydramatic
- (\*\*) 275. Ratios, forward - number 3
- 276. Gear-Shift - location Floor

277.	Manual		Automatic		Alternative manual/automatic			
	Ratio	# Teeth	Ratio	# Teeth	Ratio	# Teeth	Ratio	# Teeth
1	2.20	$\frac{27}{26} \times \frac{36}{17}$	2.48	-	2.52	$\frac{25}{21} \times \frac{36}{17}$		
2	1.64	$\frac{27}{26} \times \frac{30}{19}$	1.48	-	1.88	$\frac{25}{21} \times \frac{30}{19}$		
3	1.27	$\frac{27}{26} \times \frac{27}{22}$	1.00	-	1.46	$\frac{25}{21} \times \frac{27}{22}$		
4	1.00			-	1.00	-		
5				-				
6				-				
reverse	2.26	$\frac{27}{25} \times \frac{18}{17} \times \frac{35}{17}$	2.08	-	2.59	$\frac{25}{21} \times \frac{18}{17} \times \frac{35}{17}$		

278. Overdrive - type N.A.

279. Forward gears on which overdrive can be selected

280. Overdrive - ratio

FINAL DRIVE

- (\*\*) 290. Type Hotchkiss
- (\*\*) 291. Differential - type Hypoid
- (\*\*) 292. Limited Slip Differential (if fitted) - type  $\neq$  Fraction (Non-locking, Optional)

293. Ratio	3.55	3.73	4.10
Teeth - number	39:11	41:11	41:10

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

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MAKE PONTIAC MODEL FIREBIRD FIA REC # \_\_\_\_\_

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

STAMP

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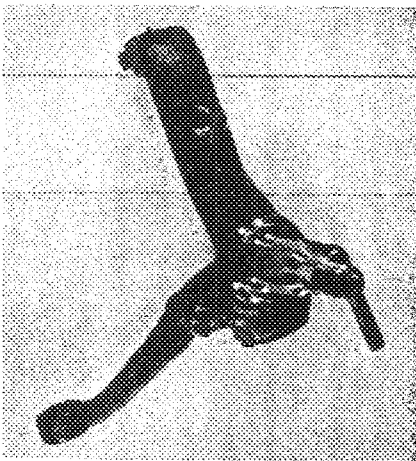
FIREBIRD

MAKE PONTIAC MODEL \_\_\_\_\_ FIA REC # \_\_\_\_\_

Optional Equipment - CATALOGUE PART NUMBER MUST BE GIVEN

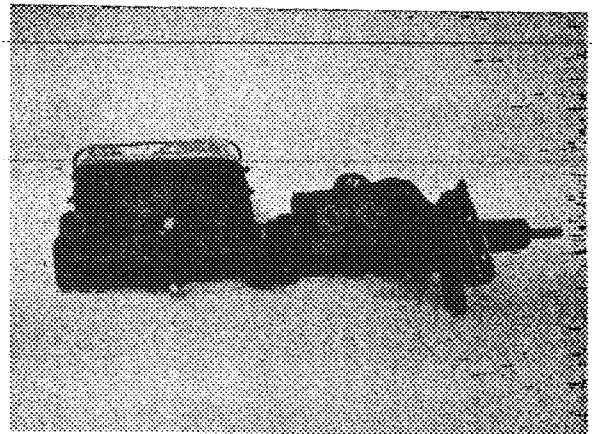
<u>Part Name</u>	<u>Part No.</u>
Cylinder Block	9799915
Cylinder Heads	9799614 (bare head)
Steering Knuckle	DS 1490
Steering Arm LH & RH	DS 1491-1492
Hydraulic Booster (Brake Assist)	HXE-22176-122
*Rear Wheel Opening Spoiler - RH & LH	480703, 480704
<del>*Hood Asm - Shaker</del>	<del>481845</del>
*Front Fender With Extractor	480898, 480899
*Rear Spoiler - Center	480161
*Rear Spoiler - RH	480160
*Rear Spoiler - LH	480159
*Front Spoiler - Center	481629
*Front Spoiler - RH	481623
*Front Spoiler - LH	481624
Propshaft - Special Balance	DS 1667 45.90" long
Motor Mounts - for use with DS 1667 Propshaft	DS 1670 RH, 1671 LH
*Hood Asm. - Dual Scoop	479672

\*See Page 14A.



STAMP

Steering Knuckle  
and Arm Asm.



STAMP

Hydraulic Booster and  
Master Cyl. Asm.



Telephone: (203) 348-6233

Cable Address: "ACCUSFIA" Stamford, Conn.

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

433 MAIN STREET, STAMFORD, CONN. 06901

Federation Internationale de l'Automobile

STANDARD CERTIFICATE OF PRODUCTION

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

Name of Manufacturer PONTIAC MOTOR DIVISION

Make of Car PONTIAC Model FIREBIRD 22337

We certify that 1000 cars identical with the basic specification, as well as \_\_\_\_\_ cars as modified by the listed optional equipment (when required by Appendix "J"), were completed as of March 10, 1968.

Cars conforming to this specification may be identified by chassis numbers 223378L100001, and engine numbers \_\_\_\_\_.

Signed:

*George S. Stephens*

*Pontiac Motor Division*

Certified:

*John V. Oliveau*  
JOHN V. OLIVEAU  
TECHNICAL DIRECTOR  
ACCUSFIA, Inc.





AUTOMOBILE COMPETITION COMMITTEE  
 FOR THE UNITED STATES, F.I.A., INC.  
 330 Vanderbilt Motor Parkway  
 Hauppauge, L.I., N.Y. 11787  
 (516) 582-4040

F.I.A. NO. 1652  
 GROUP II

FEDERATION INTERNATIONALE DE L'AUTOMOBILE  
 FORM OF RECOGNITION

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

Cylinder Capacity 6552 cm<sup>3</sup> 400 in<sup>3</sup>

Manufacturer PONTIAC MTR. DIV.

Model FIREBIRD TRANS-AM

Serial # Chassis 22887

Manufacturer PONTIAC

Serial # Engine SAME

Manufacturer PONTIAC

Recognition valid from 16.95

List \_\_\_\_\_

The manufacturing of the model described in this recognition form was started on 1-9-70 and the minimum production of 1000 identical cars, in accordance with the specifications of this form, was reached on 7-15-70

A 3/4 Front View Car \*



The following amendments apply to the vehicle identified above:

**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

*Handwritten:* 17/13/73 4-30-73  
 WKC\*

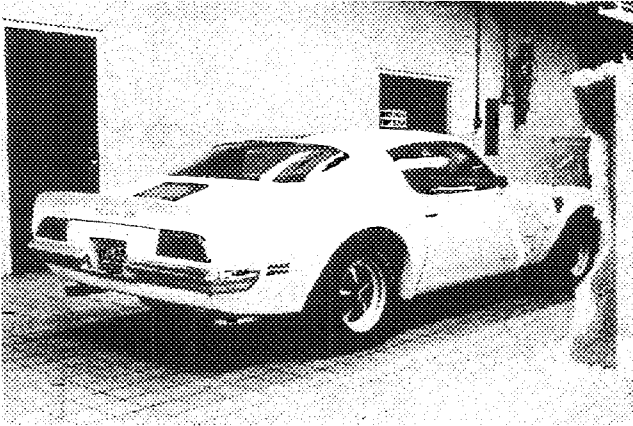
Stamp/Signature  
 F.I.A.

MAKE

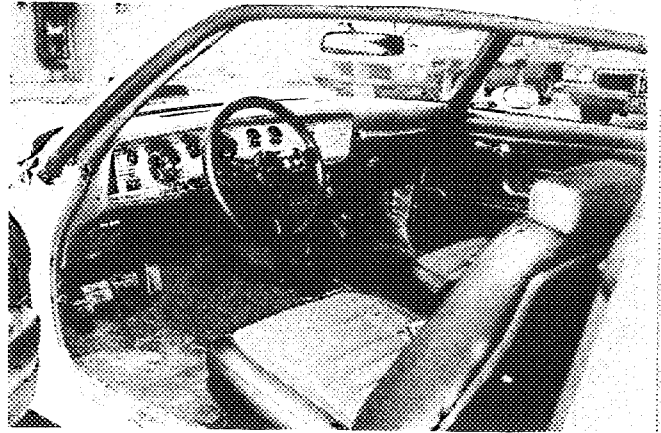
PONTIAC

MODEL FIREBIRD TRANS-AM IA REC # 1652

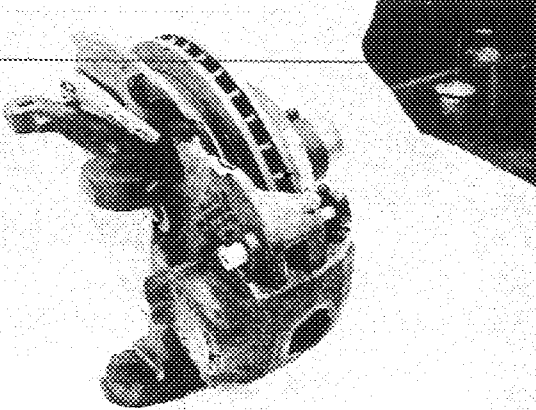
B 3/4 rear car (\*\*)



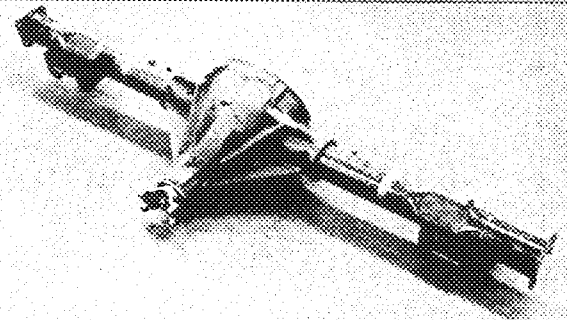
C interior-car (\*\*)



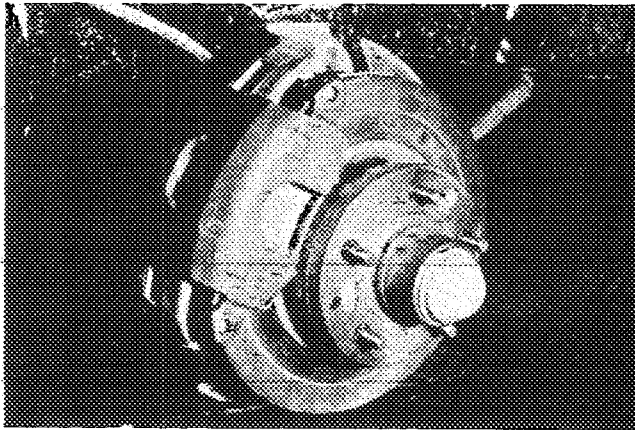
D front axle (\*\*)



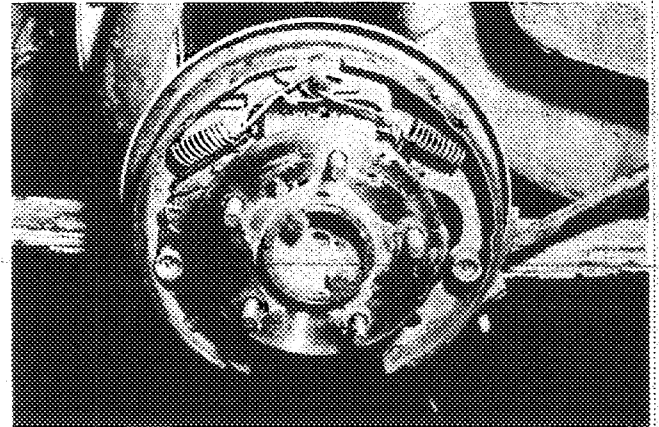
E rear axle (\*\*)



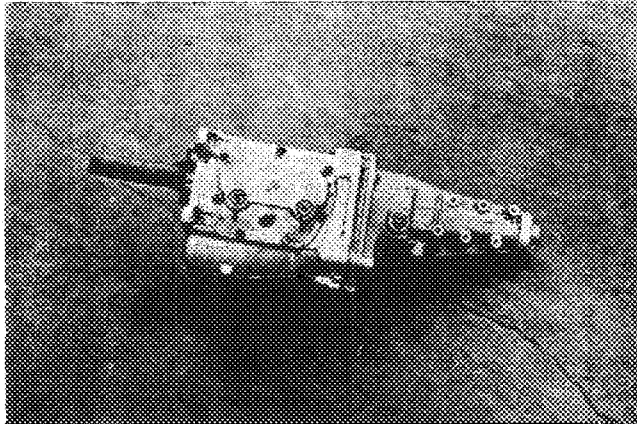
F brake. front (\*\*)



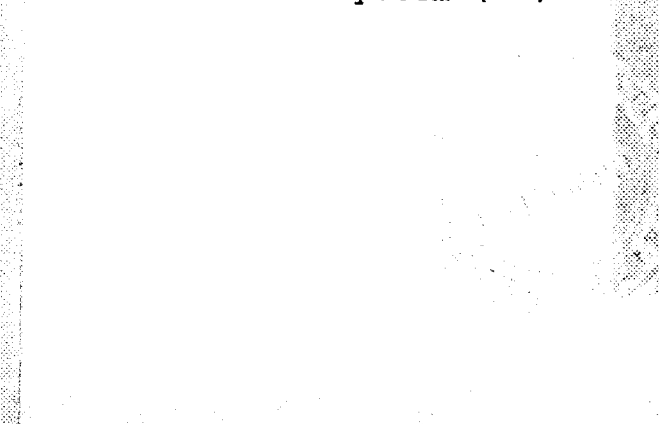
G brake. rear (\*\*)



H gear box (\*\*)



I exhaust system ( )



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ACCUS Recognition No. 1652

MAKE Pontiac

MODEL FIREBIRD TRANS-AM

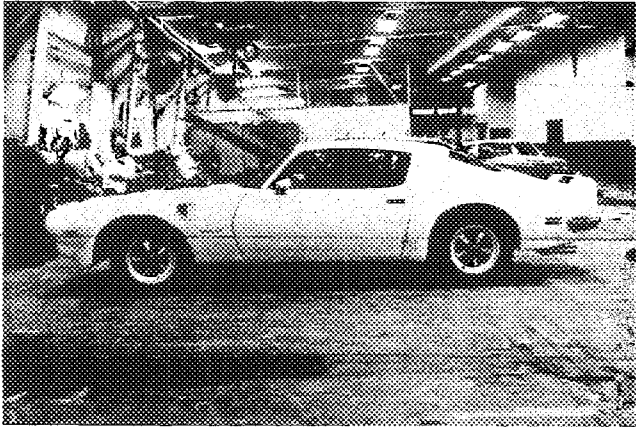
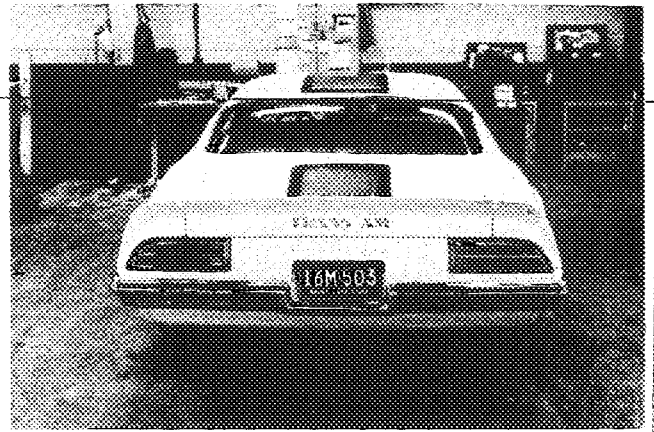


PHOTO IDENTIFICATION PAGE

(2a)

MAKE

PONTIAC

MODEL

FIREBIRD  
TRANS-AM

FIA REC #

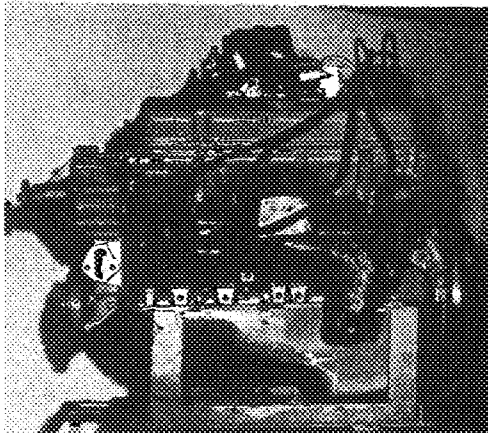
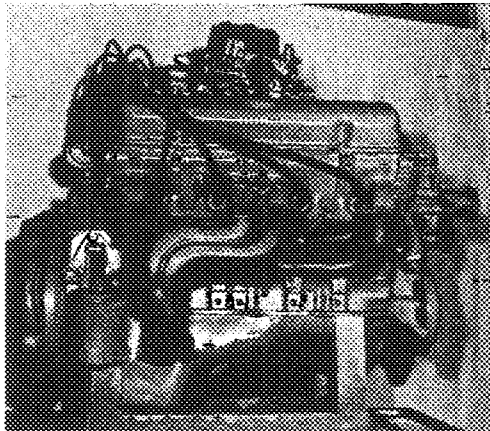
1652

J ENGINE RIGHT

(\*\*)

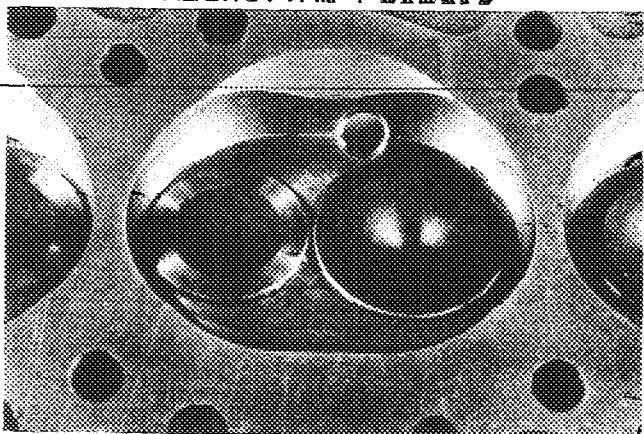
K ENGINE LEFT

(\*\*)



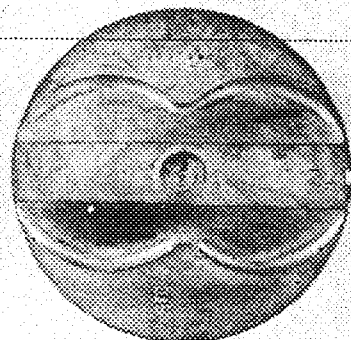
I COMBUSTION CHAMBER

M PISTON ROD

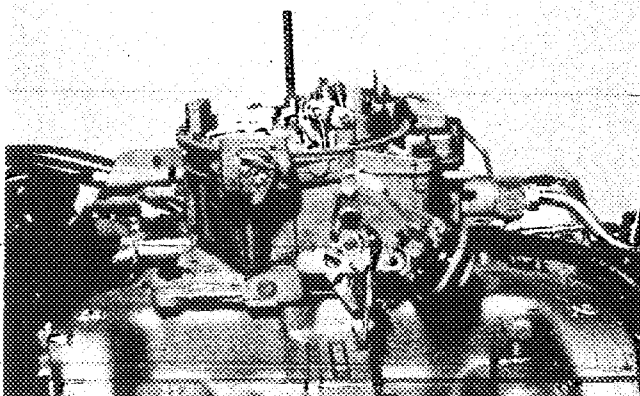


N CARRIER

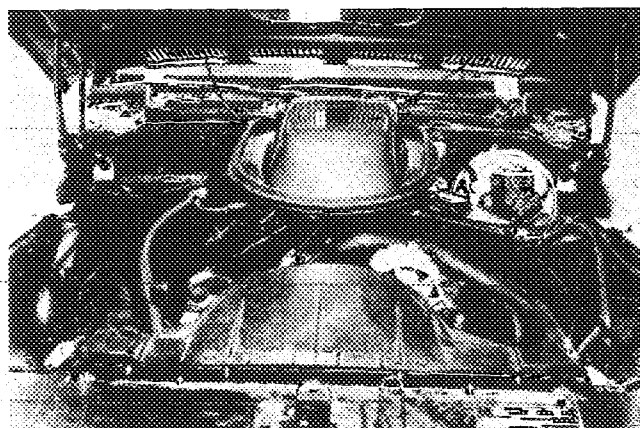
( )



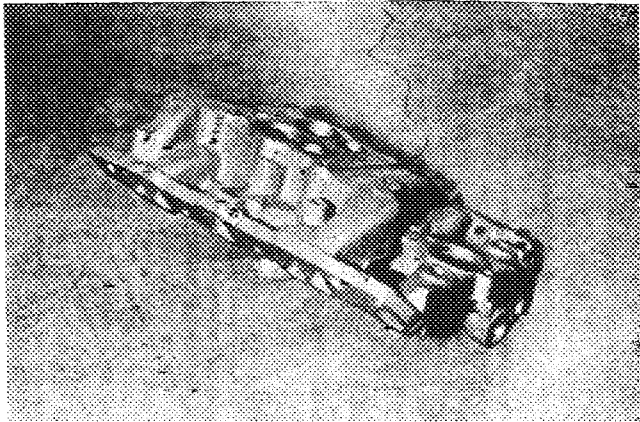
O ENGINE IN PLACE (\*\*)



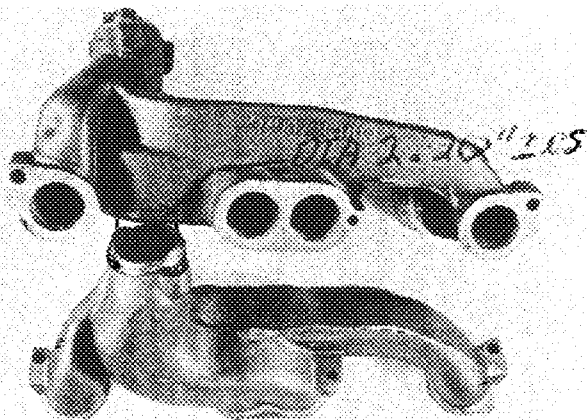
P MANIFOLD INLET



Q MANIFOLD EXHAUST

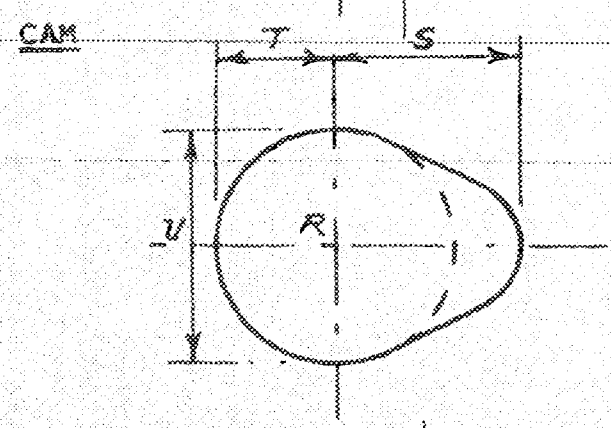
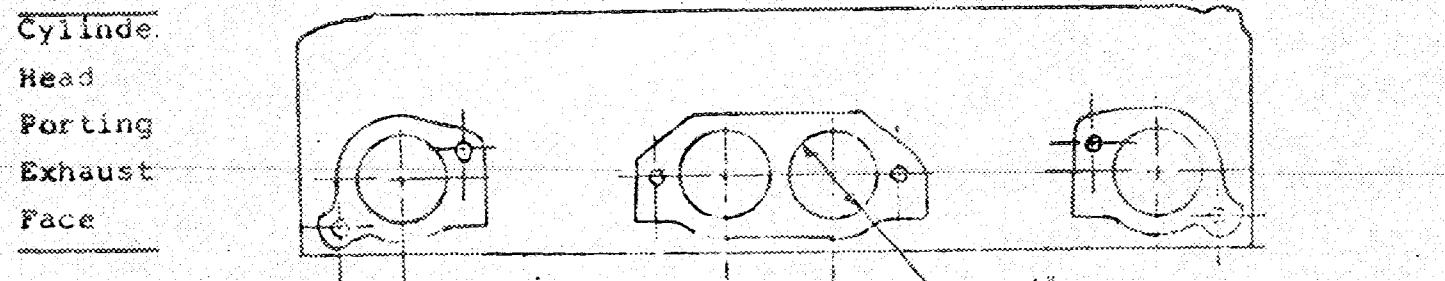
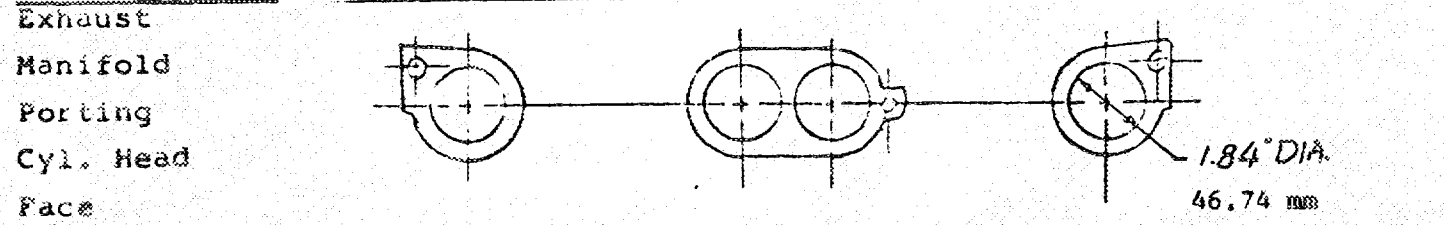
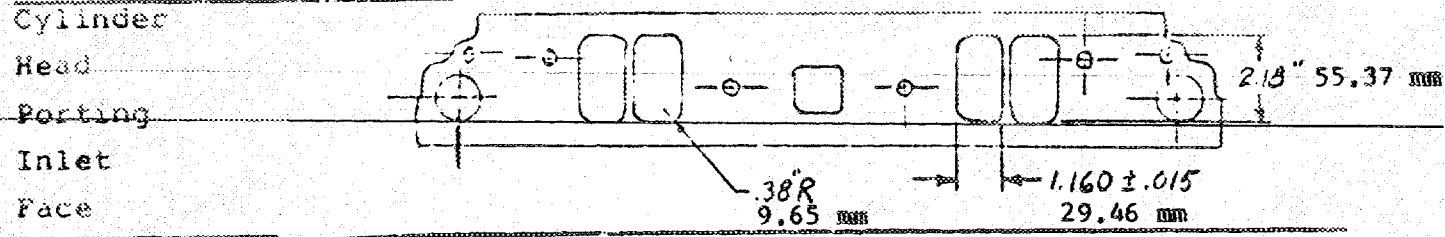
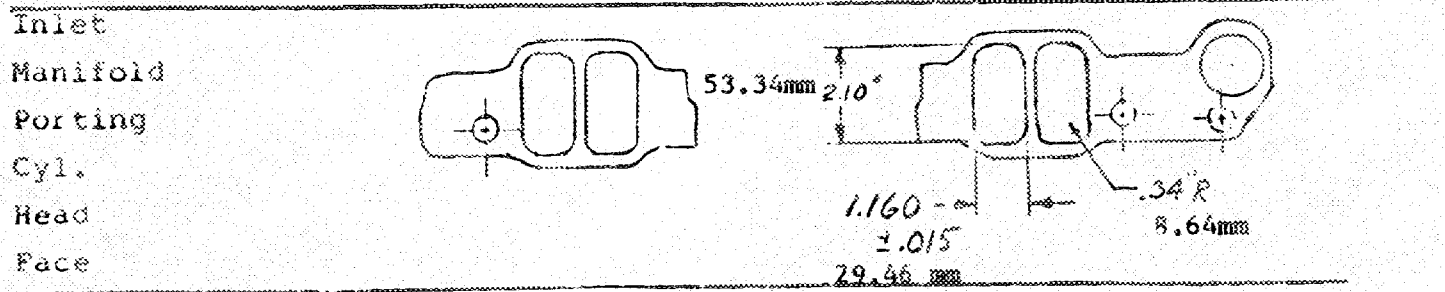


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ALL SKETCHES MUST INDICATE ACTUAL DIMENSIONS AND MANUFACTURER'S TOLERANCES.



<b>Inlet cam</b>		46.74 mm
S=	23.85 mm	.939 in
T=	16.94 mm	.667 in
U=	33.88 mm	1.334 in
<b>Exhaust cam</b>		
S=	23.84 mm	.9386 in
T=	16.94 mm	.667 in
U=	33.88 mm	1.334 in

STAMP

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MAKE PONTIAC

MODEL FIREBIRD TRANS-AM

FIA REC # 1652

**IMPORTANT** - Underlined items must be filled in, in both metric and English values.  
See Conversion Table below. SEE PAGE 10 FOR EXPLANATION OF SYMBOLS.

CAPACITIES AND DIMENSIONS

- \* 1. Wheelbase: 2750 mm 108 inches
- \* 2. Front track: 1560 mm 61.7 inches (1)
- \* 3. Rear track: 1530 mm 60.4 inches (1)
- 4. Overall length of car 485 cm 191.6 inches
- 5. Overall width of car (at widest point) 193 cm 76 inches
- 5a Overall width of car (at vertical plane through front wheels) 193 cm 76 in
- 5b Overall width of car (at vertical plane through rear wheels) 193 cm 76 in
- 6. Overall height of car 128 cm 50.4 inches
- \* 7. Capacity of fuel tank (reserve included) 73.5 Litres 19.5 U.S.Gals.
- 8. Seating capacity: 4
- \* 9. Weight - Total weight of vehicle with normal equipment described on homologation sheet, all required lubricants and coolants and one spare wheel and tire, but without fuel or repair tools  
1368 kg 3020 lbs

(1) Specify ground clearance Front and Rear corresponding to Front and Rear track measurements shown above. Indicate by sketch below reference points on chassis or suspension where these dimensions are checked. These specifications are for the purpose of checking the track with specified wheel rim size with the suspension at reference setting. Differences in track resulting from use of different rim widths must be shown with suspension at reference setting. A sketch showing the rim widths superimposed is desirable.

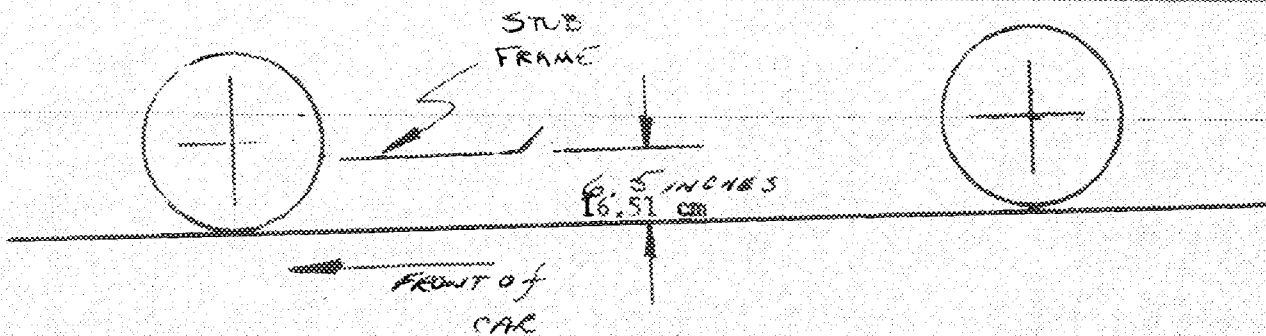


TABLE OF CONVERSIONS

1 inch	2.54 cm
1 foot	30.4794 cm
1 square inch	6.452 cm <sup>2</sup>
1 cubic inch	16.387 cm <sup>3</sup>

1 pound	453.593 gr
1 quart U.S.	0.9464 litres
1 pint U.S.	0.473 litres
1 gallon U.S.	3.785 litres



MAKE PONTIAC MODEL FIREBIRD FIA REC # 1652  
TRANS-AM

CHASSIS & BODYWORK - Photos A, B, C

- (\*\*) 20. Chassis/body construction - separate/unit construction  
Body - Frame integral and separate  
(\*\*) 21. Unit construction - material/s frame stamped steel  
(\*\*) 22. Chassis - material/s steel separate construction  
(\*\*) 23. Body - material/s steel separate construction  
(\*\*) 24. Doors - number 2 material/s steel  
(\*\*) 25. Hood - material/s steel  
(\*\*) 26. Trunk Lid - material/s steel  
27. Window, Rear - material/s tempered glass  
28. Windshield - material/s laminated safety plate glass  
29. Windows, front door - material/s tempered glass  
~~30. Windows, rear door - material/s tempered glass~~  
31. Windows - actuating system sector gear and linkage  
32. Window, rear quarter - material/s none

ACCESSORIES AND UPHOLSTERY

38. Heating, interior - yes no optional  
39. Air conditioning - yes no optional  
40. Ventilation - yes X no  
( ) 41. Seats, front - type of seat and upholstery bucket.vinyl  
42. Seats, front - weight  
(complete with supports & rails out of car) 20.7kg 46 lbs  
CHECK: BENCH \_\_\_\_\_ BUCKET X CONSOLE INCLUDED NO  
43. Seats, rear - type of seat and upholstery bucket - vinyl  
44. Bumper, front - material/s <sup>steel/</sup>rubber kg 11.3lbs 25 Weight  
45. Bumper, rear - material/s steel kg 7.15lbs 15.6 Weight

WHEELS

50. Type pressed steel  
51. Weight (per wheel, without tire) kg 25 lbs  
52. Method of attachment 5 - lug nuts and studs  
53. Rim, diameter 380 mm 15 in  
54. Rim, width 178 mm 7 in

STEERING

60. Type Recirculating Ball  
61. Servo assistance Hydraulic (Manual Optional)  
62. Number of turns of steering wheel from lock to lock 5.4  
63. In case of servo assistance 2.50

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SUSPENSION

- (\*\*) 70. Suspension, front (photo D) - type Short & Long Arm Independent
- (\*\*) 71. Spring - type Coil
- ( ) 72. Stabilizer - if fitted 1.250 dia. front (1.125 optional)
- 73. Shock absorbers - number 2
- 74. Type Direct Acting - Telescoping
- (\*\*) 78. Suspension, rear (photo E) - type Hotchkiss
- (\*\*) 79. Spring - type Leaf
- ( ) 80. Stabilizer - if fitted .875 dia. Rear (.625 optional)
- 81. Shock absorbers - number 2
- 82. Type Direct Acting Telescoping

BRAKES (Photos E and F)

- (\*\*) 90. Method of operation Foot pedal hydraulic
- ( ) 91. Power assisted (if fitted) - type Vacuum Assist (Manual Optiona
- 92. Master Cylinders - number and type <sup>One Duplex</sup>  
(indicate if duplex master cylinder) Front Rear
- 93. Cylinders - number per wheel One One
- 94. Cylinders - wheel bore mm 2.937 in mm .875 in  
(indicate stepped bore dimensions if applicable)

Drum Brakes

	<u>Front</u>	<u>Rear</u>
95. Diameter, inside	mm in 242mm	9.5in
96. Linings, length	mm N.A.	in 434mm 17.45in
97. Linings, width	mm in 508mm	2.0in
98. Shoes - number per brake		Two
99. Area, total - per brake	mm <sup>2</sup> in <sup>2</sup> 44900	mm <sup>2</sup> 69.8in <sup>2</sup>

Disc Brakes

100. Diameter, outside	277 mm 10.94in	mm	in
101. Thickness of disc	26.2 mm 1.035 in	mm N.A.	in
102. Lining - length	103.7 mm 5.40 in	mm	in
103. Lining - width	49.0 mm 1.93 in	mm	in
104. Pads - number per brake	Two		
105. Area, total - per brake	1320 mm <sup>2</sup> 206in <sup>2</sup>	mm <sup>2</sup>	in <sup>2</sup>

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MAKE PONTIAC MODEL FIREBIRD TRANS AM FIA REC # 1652

ENGINE (Photos J and K)

- (\*\*) 130. Cycle two four X Wankel
- (\*\*) 131. Cylinders - number Eight (8)
- (\*\*) 132. Cylinders - arrangement V Wankel - # of elements and basic dimensions
- (\*\*) 133. Bore 104.7 mm  $\frac{4.120}{4.124}$  in
- (\*\*) 134. Stroke 95.25 mm  $\frac{3.746}{3.754}$  in
- (\*\*) 135. Cylinders - capacity 819.35 cm<sup>3</sup> 50 in<sup>3</sup>
- 
- (\*\*) 136. Cylinders, total capacity 6552 cm<sup>3</sup> 400 in<sup>3</sup>
- 
- (\*\*) 137. Cylinder Block - material/s Cast Iron
- (\*\*) 138. Sleeves - material/s (if fitted)
- (\*\*) 139. Head, cylinder - material/s Cast Iron number fitted 2
- (\*\*) 140. Port, inlet - number Eight (8)
- (\*\*) 141. Port, exhaust - number Eight (8)
- ( ) 142. Compression - ratio 10.0 to 1
- ( ) 143. Combustion chamber - volume 62 cm<sup>3</sup> 3.78 in<sup>3</sup>
- ( ) 144. Piston - material/s Aluminum
- ( ) 145. Rings - number Three (3)
- ( ) 146. Distance from gudgeon pin centre line to highest point of piston crown 43.6 mm  $\frac{1.718}{1.722}$  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 5.68 ltrs 12 pts 6 qts US
- ( ) 153. Cooler, oil - yes no
154. Cooling - method Water
155. Cooling - capacity of system 19.0 ltrs 40.6 pts 20.3 qts US

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- ( ) 156. Fan, cooling (if fitted) - diameter 47.75 cm 18.8 in
- ( ) 157. Fan, cooling - number of blades Five(5) material/s Steel

BEARINGS

- (\*\*) 158. Crankshaft, main - type Steel diameter 76.2 mm 3.00 in. ±.001 Aluminum on
- (\*\*) 159. Connecting rod, big end - type diameter 57.2 mm 2.250 in. ±.0 Aluminum steel on

WEIGHTS

- ( ) 160. Flywheel (clean) 15.7 kg 34 lbs ± .25 lb.
- ( ) 161. Flywheel with clutch (all rotating parts) kg 54.5 lbs ± .25 lb
- ( ) 162. Crankshaft 31 kg 65 lbs ± .25 lb.
- 163. Connecting Rod .79 kg 1.75 lbs ± 4 grams
- ( ) 164. Piston with rings & pin .63 kg 1.38 lbs ± 2 grams

FOUR CYCLE ENGINES

- (\*\*) 170. Camshafts - number One material/s cast alloy iron
- (\*\*) 171. Camshaft - location Cylinder Block
- (\*\*) 172. Camshaft Drive, type Chain & Sprocket
- (\*\*) 173. Valve operation - type Push Rod

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

- 180. Inlet manifold - materials Iron
- 181. Valves (overall) - diameter 53.7 mm 2.113 in
- ( ) 182. Valve lift - maximum 10.5 mm .413 in
- 183. Springs, valve - number 2/Valve
- 184. Spring - type Coil
- (\*\*) 185. Valves, per cylinder - number One
- ( ) 186. Tappet - clearance for checking timing (cold) mm N.A. in
- ( ) 187. Valves - open at (with tolerance for tappet 38° BTDC clearance indicated) .002" @ Valve
- ( ) 188. Valves - close at (with tolerance for tappet 83° ABDC clearance indicated) .008" @ Valve
- ( ) 189. Air filter - type Paper

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EXHAUST (See Photo Q)

195. Manifold, exhaust - material/s Cast Iron
196. Valves (overall) - diameter 45 mm 1.773 in
197. Valve, lift - maximum 10.5 mm .413 in
198. Valve Springs/valve - number 2/Valve
199. Springs - type Coil
- (\*\*) 200. Valves - number per cylinder One
- ( ) 201. Tappet - clearance for checking timing (cold) N.A.  
mm in
- 
- ( ) 202. Valves - open at (with tolerance for tappet 95° BBDC  
clearance indicated) .002" @ Valve
- ( ) 203. Valves - close at (with tolerance for tappet 38° ATDC  
clearance indicated) .008" @ Valve

CARBURETION (See Photo N)

210. Carburetors, fitted - number One
211. Type Downdraft
- ( ) 212. Make Rochester
- ( ) 213. Model 4 MV
214. Carburetors - number of mixture passages 4
- ( ) 215. Carburetor - flange hole diameter of exit port  
35 mm 1.38 in Primary  
55.2 mm 2.25 in Secondary
216. Venturi - throat diameter+  
mm 1.00 in Primary  
No Secondary Venturi

INJECTION N.A.

220. Pump - make
221. Plungers - number
- ( ) 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

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MAKE PONTIAC MODEL FIREBIRD TRANS-AM FIA REC # 1652

ENGINE ACCESSORIES

- ( ) 230. Pump, fuel - mechanical and/or electrical  
231. Number fitted One  
232. Ignition system - type Coil  
233. Distributors - number One  
234. Coils, ignition - number One  
235. Spark plugs - number per cylinder One  
236. Generator (or Alternator) - number fitted One

---

237. Drive - method Belt (V-Type)

238. Voltage, generator - volts 12

239. Battery - number One

240. Location Engine compartment

241. Voltage - volts 12 amp hrs 45

ENGINE & CAR PERFORMANCE as declared by mfr. in catalogue

- ( ) 250. Horsepower - maximum engine output 345 at 5000 rpm  
(indicate SAE or DIN)  
( ) 251. RPM - maximum 5000 output at that figure 345 MP  
( ) 252. Torque - maximum 430 lb.ft at 3400 rpm  
( ) 253. Speed - maximum km/hour 125 miles/hour

---

DRIVE TRAIN

Clutch

260. Type Dry plate

261. Plates - number of driven One

262. Plates - diameter 26.5 cm 10.4 in

263. Linings - diameter - inside 16.5 cm 6.5 in

Linings - diameter - outside 26.5 cm 10.4 in

264. Method of operation Mechanical - Foot

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Gear Box (Photo H)

- (\*\*) 270. Manual type - make GM - Muncie
- (\*\*) 271. Ratios, forward - number Four
- 272. Ratios, forward - number synchronized Four
- 273. Gear-Shift - location Floor optional
- (\*\*) 274. Automatic - make GM type Turbo Hydramatic
- (\*\*) 275. Ratios, forward - number 3
- ~~276. Gear-Shift - location Floor~~

277.	Manual		Automatic		Alternative manual/automatic			
	Ratio	# Teeth	Ratio	# Teeth	Ratio	# Teeth	Ratio	# Teeth
1	2.20	$\frac{27}{26} \times \frac{36}{17}$	2.48	-	2.52	$\frac{25}{21} \times \frac{36}{17}$		
2	1.64	$\frac{27}{26} \times \frac{30}{19}$	1.48	-	1.88	$\frac{25}{21} \times \frac{30}{19}$		
3	1.27	$\frac{27}{26} \times \frac{27}{22}$	1.00	-	1.46	$\frac{25}{21} \times \frac{27}{22}$		
4	1.00			-	1.00	-		
5				-				
6				-				
reverse	2.26	$\frac{27 \times 18 \times 35}{25 \times 17 \times 17}$	2.08	-	2.59	$\frac{25 \times 18 \times 35}{21 \times 17 \times 17}$		

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

FINAL DRIVE

- (\*\*) 290. Type Hotchkiss
- (\*\*) 291. Differential - type Hypoid
- (\*\*) 292. Limited Slip Differential (if fitted) - type  $\neq$  Friction (Non-locking, Optional)
- 293.

Ratio	3.55	3.73	4.10
Teeth - number	39:11	41:11	41:10

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

MAKE PONTIAC MODEL FIREBIRD TRANS-AM FIA REC # 1652

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

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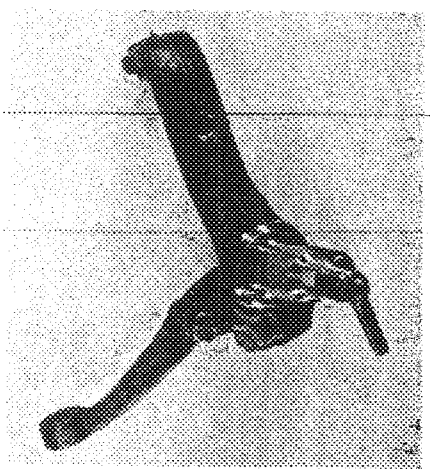


MAKE PONTIAC MODEL FIREBIRD TRANS-AM FIA REC # 1652

Optional Equipment - CATALOGUE PART NUMBER MUST BE GIVEN

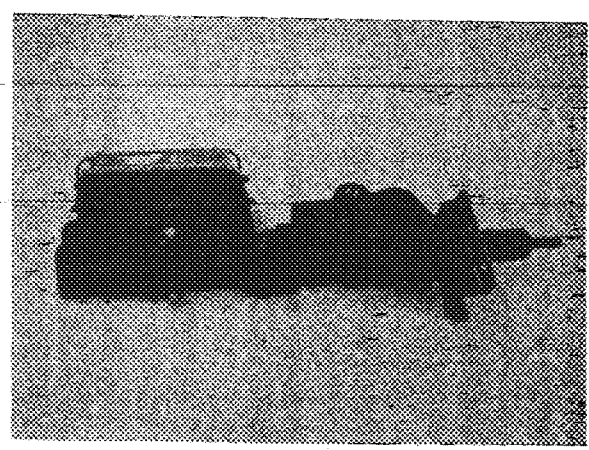
<u>Part Name</u>	<u>Part No.</u>
Steering Knuckle Steering Arm LH & RH	DS 1490 DS 1491-1492
Hydraulic Booster (Brake Assist)	HXE-22176-122
*Rear Wheel Opening Spoiler - RH & LH	480703, 480704
*Hood Asm - Shaker	481845
<del>*Front Fender With Extractor</del>	<del>480898, 480899</del>
*Rear Spoiler - Center	480161
*Rear Spoiler - RH	480160
*Rear Spoiler - LH	480159
*Front Spoiler - Center	481629
*Front Spoiler - RH	481623
*Front Spoiler - LH	481624
Propshaft - Special Balance	DS 1667 45.90" long
Motor Mounts - for use with DS 1667 Propshaft	DS 1670 RH, 1671 LH
*Hood Asm. - Dual Scoop	479672

\*See Page 14A.



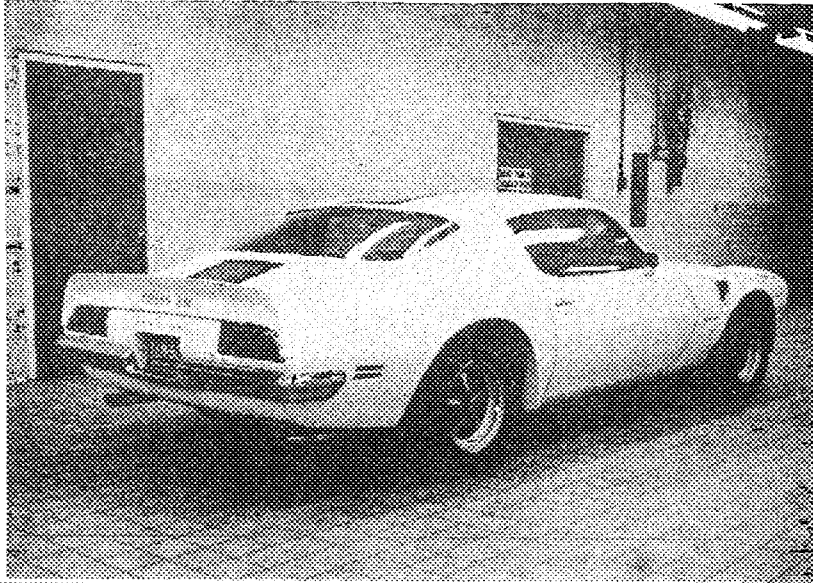
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Steering Knuckle  
and Arm Asm.

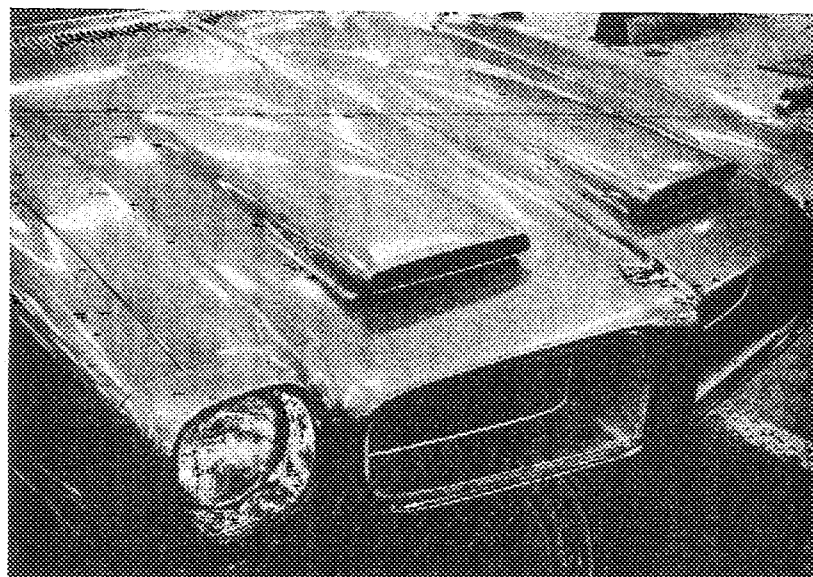


STAMP

Hydraulic Booster and  
Master Cyl. Asm.



Spoilers,  
Fender Extractors,  
& Shaker Hood



Dual Hood Scoop



AUTOMOBILE COMPETITION COMMITTEE  
 FOR THE UNITED STATES, FIA, INC.  
 330 Vanderbilt Motor Parkway  
 Hauppauge, L.I., N.Y. 11787  
 (516) 582-4040

FIA NO. 1652 /  
 GROUP II

FEDERATION INTERNATIONALE DE L'AUTOMOBILE  
 FORM OF RECOGNITION

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

Cylinder Capacity 7400 cm<sup>3</sup> 455 in<sup>3</sup>

Manufacturer Pontiac

Model Firebird Trans Am

Serial # Chassis 2FV87

Manufacturer Pontiac

Serial # Engine LS5

Manufacturer Pontiac

Recognition valid from [REDACTED] 1.6.73

List \_\_\_\_\_

The manufacturing of the model described in this recognition form was started on 8-15-71 and the minimum production of 1000 identical cars, in accordance with the specifications of this form, was reached on 4-8-72

A 3/4 Front View Car \*



The following amendments apply to the vehicle identified above:

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.

*Revised  
 4-30-73  
 JAMES H. H.*

MAKE Pontiac

MODEL Firebird Trans Am FIA REG # 1652

1/1V

ENGINE (Photos J and K)

- \* 130. Cycle: Four
- \* 131. Number of cylinders: Eight
- \* 132. Cylinder arrangement: "V" Wankel: # of elements & basic dimensions-
- \* 133. Bore: 105.44mm 4.1510/4.1534 inches
- \* 134. Stroke: 106.83mm 4.206/4.214 inches
- \* 135. Capacity per cylinder: 927.62cm<sup>3</sup> 46.9 cu in
- \* 136. Total cylinder capacity: 7400.0 cm<sup>3</sup> 455 cu in
- \* 137. Material of cylinder block: Cast Iron
- \* 138. Material of sleeves (if fitted): None
- \* 139. Cylinder head material: Cast Iron Number fitted: Two
- \* 140. Number of inlet ports: Eight (8)
- \* 141. Number of exhaust ports: Eight (8)
- (SP)142. Compression ratio: 8.4 to 1
- (SP)143. Volume of combustion chamber: 111.89 cm<sup>3</sup> 6.83 cu in
- (SP)144. Piston, material: Aluminum
- (SP)145. Number of rings: Three (3)
- (SP)146. Distance from gudgeon pin centre line to highest point of piston crown: 37.8 mm 1.488/1.4922 inches
- \* 147. Crankshaft: (cast) ~~Aluminum~~
- \* 148. Crankshaft, type: (integral) ~~cast iron~~
- \* 149. Crankshaft, number of main bearings: Five (5)
- \* 150. Material of bearing cap: Cast Iron
- 151. System of lubrication: ~~(dry sump)~~ (oil in sump)
- 152. Lubricant capacity: \_\_\_\_\_ litres \_\_\_\_\_ pints 5 quarts U.S.
- (SP)153. Oil cooler: ~~yes~~ (no)
- \* 154. Method of engine cooling: Water
- 155. Capacity of cooling system: \_\_\_\_\_ litres \_\_\_\_\_ pints 17.9 quarts U.S.
- (SP)156. Cooling fan (if fitted) diameter: 48.26 cm 19.0 inches
- (SP)157. Number of blades of cooling-fan: Five (5)

BEARINGS

- \* 158. Crankshaft, main, type: Aluminum on Steel Diameter: 82.55 mm 3.25 inches
- \* 159. Connecting rod, big end, type: Aluminum on Steel Diameter: 57.2 mm 2.250 inches

WEIGHTS

- (SP)160. Flywheel (clean): 15.44 kg 34 lbs
- (SP)161. Flywheel with clutch (all rotating parts): 24.74 kg 54.5 lbs
- (SP)162. Crankshaft: 31.78 kg 70.0 lbs
- (SP)163. Connecting Rod: .79 kg 1.75 lbs
- (SP)164. Piston with rings and pin: .63 kg 1.38 lbs

FOUR CYCLE ENGINES

- \* 170. Number of camshafts: One
- \* 171. Location of camshaft: Cylinder Block
- \* 172. Type of camshaft drive: Chain and Sprocket
- \* 173. Type of valve operation: Push Rod

INLET (see Photo P) +

- |          |  |   |                     |
|----------|--|---|---------------------|
| 180.     | Material of inlet manifold:                                      | Aluminum                                |                     |
| 181.     | Overall diameter of valves:                                      | <u>53.7</u> mm                          | <u>2.113</u> inches |
| (SP)182. | Maximum valve lift:  | <u>10.41</u> mm                         | <u>.410</u> inches  |
| 183.     | Number of valve springs:   | 2/Valve                                 |                     |
| 184.     | Type of spring:  | Coil                                    |                     |
| * 185.   | Number of valves per cylinder:                                   | One                                     |                     |
| (SP)186. | Tappet clearance for checking timing (cold):                     | _____ mm                                | N.A. inches         |
| (SP)187. | Valves open at (with tolerance for tappet clearance indicated):  | 31°BTC                                  | .002"@Valve         |
| (SP)188. | Valves close at (with tolerance for tappet clearance indicated): | 77°ABC                                  | .008"@Valve         |
| (SP)189. | Air filter: ( <del>yes</del> ) (dry)                             | Cartridge type: (yes) ( <del>no</del> ) |                     |

EXHAUST (see Photo Q)

- |          |  |                |                     |
|----------|--|----------------|---------------------|
| 195.     | Material of exhaust manifold:                                    | Cast Iron      |                     |
| 196.     | Overall diameter of valves:                                      | <u>45</u> mm   | <u>1.773</u> inches |
| (SP)197. | Maximum valve lift:  | <u>10.5</u> mm | <u>.413</u> inches  |
| 198.     | Number of valve springs:   | 2/Valve        |                     |
| 199.     | Type of spring:  | Coil           |                     |
| * 200.   | Number of valves per cylinder:                                   | One            |                     |
| (SP)201. | Tappet clearance for checking timing (cold):                     | _____ mm       | N.A. inches         |
| (SP)202. | Valves open at (with tolerance for tappet clearance indicated):  | 90°BBC         | .002"@Valv          |
| (SP)203. | Valves close at (with tolerance for tappet clearance indicated): | 32°ATC         | .008"@Valv          |
| (SP)204. | Inside diameter of exhaust manifold outlet:                      | 2.25"          |                     |

CARBURETION (see Photo N)

- |          |  |                |                    |
|----------|--|----------------|--------------------|
| 210.     | Number of carburetors fitted:  | One            |                    |
| (SP)211. | Type:  | Down Draft     |                    |
| (SP)212. | Make:  | Rochester      |                    |
| (SP)213. | Model:   | 4MV Quadra-jet |                    |
| 214.     | Number of mixture passages per carburetor:                                 | 4              | 35.05              |
| (SP)215. | Flange hole diameter of exit port of carburetor:                           | _____ mm       | <u>2.25</u> inches |
| (SP)216. | Depending on type of carburetor, indicate: diameter at throat of venturi/s |                |                    |
|          | at the plane of maximum restriction. Dimension of mixture passage at the   |                |                    |
|          | point of maximum restriction with the piston in its maximum open position  |                |                    |
|          | (example SU type):   | <u>25.4</u> mm | <u>1.00</u> inches |

+ For additional information concerning two-stroke engines and supercharged engines, add supplementary page

MAKE Pontiac

MODEL Firebird Trans Am FIA REC # 1652

1/1V

INJECTION (if fitted) N.A.

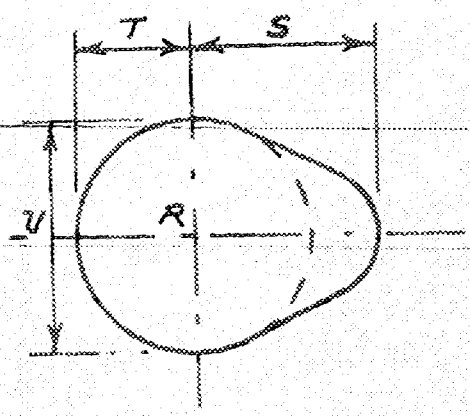
- 220. Make of pump:
- (SP)222. Model or type of pump:
- 224. Location of injectors:
- (SP)225. Minimum diameter of inlet pipe: \_\_\_\_\_ mm \_\_\_\_\_ inches
- 221. Number of plungers:
- 223. Total number of injectors:

ENGINE ACCESSORIES

- (SP)230. Fuel pump: ~~mechanical~~ ~~and/or electric~~
- 231. Number fitted: One
- 232. Type of ignition system: Coil
- 233. Number of distributors: One
- 234. Number of ignition coils: One
- 235. Number of spark plugs per cylinder: One
- (SP)236. Generator type: ~~dynamos~~ (alternator) ~~Number: One~~
- 237. Method of drive: Belt (V-Type)
- 238. Voltage of generator: 12 volts
- 239. Battery, number: One
- 240. Location of battery: Engine compartment
- 241. Voltage of battery: 12 volts

ENGINE & CAR PERFORMANCE (as declared by manufacturer in catalog)

- (SP)250. Horsepower, maximum engine output: 300 at: 4000 rpm  
(indicate SAE or DIN) Net h.p. as installed
- (SP)251. Maximum rpm: 5000 (SP) Output at that figure: 365 h.p.
- (SP)252. Maximum torque: 415 ft.lbs. at: 3200 rpm
- (SP)253. Maximum speed: \_\_\_\_\_ km/hour \_\_\_\_\_ miles/hour
- 255. CAM



(SP) <u>Inlet cam</u>			
S =	23.85	mm	.939 inches
T =	16.94	mm	.667 inches
U =	33.88	mm	1.334 inches
(SP) <u>Exhaust cam</u>			
S =	23.84	mm	.9386 inches
T =	16.94	mm	.667 inches
U =	33.88	mm	1.334 inches



AUTOMOBILE COMPETITION COMMITTEE  
 FOR THE UNITED STATES, FIA, INC.  
 330 Vanderbilt Motor Parkway  
 Hauppauge, L.I., N.Y. 11787  
 (516) 582-4040

FIA NO. 16522  
 GROUP II

FEDERATION INTERNATIONALE DE L'AUTOMOBILE  
 FORM OF RECOGNITION

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

Cylinder Capacity 7400 cm<sup>3</sup> 455 in<sup>3</sup>

Manufacturer Pontiac

Model Firebird Trans Am

Serial # Chassis 22287

Manufacturer Pontiac

Serial # Engine LS5

Manufacturer Pontiac

Recognition valid from [redacted] 1.6.73

List \_\_\_\_\_

The manufacturing of the model described in this recognition form was started on 8-15-70 and the minimum production of 1000 identical cars, in accordance with the specifications of this form, was reached on 7-31-71

A 3/4 Front View Car \*



The following amendments apply to the vehicle identified above:

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

*Variant I  
 Revised  
 4-30-73  
 ONLOAL*

Stamp/Signature  
 F.I.A.

MAKE Pontiac

MODEL Firebird Trans Am FIA REC # 1657

2/21

ENGINE (Photos J and K)

- \* 130. Cycle: Four
- \* 131. Number of cylinders: Eight
- \* 132. Cylinder arrangement: " " Wankel: # of elements & basic dimensions-
- \* 133. Bore: 105.46 mm 4.1510/4.1534 inches
- \* 134. Stroke: 106.83 mm 4.206/4.214 inches
- \* 135. Capacity per cylinder: 927.62 cm<sup>3</sup> 56.85 cu in
- \* 136. Total cylinder capacity: 7400 cm<sup>3</sup> 455 cu in
  
- \* 137. Material of cylinder block: Cast Iron
- \* 138. Material of sleeves (if fitted): None
- \* 139. Cylinder head material: Cast Iron Number fitted: Two
- \* 140. Number of inlet ports: Eight (8)
- \* 141. Number of exhaust ports: Eight (8)

---

- (SP) 142. Compression ratio: 8.4 to 1

---

- (SP) 143. Volume of combustion chamber: 107.75 cm<sup>3</sup> 6.57 cu in
- (SP) 144. Piston, material: Aluminum
- (SP) 145. Number of rings: Three (3)
- (SP) 146. Distance from gudgeon pin centre line to highest point of piston crown: 37.8 mm 1.488/1.4922 inches
  
- \* 147. Crankshaft: (cast) (forged) --Cast
- \* 148. Crankshaft, type: (integral) (sectioned) --Integral
- \* 149. Crankshaft, number of main bearings: Five (5)
- \* 150. Material of bearing cap: Cast Iron
- 151. System of lubrication: (dry sump) (oil in sump) --Oil in Sump
- 152. Lubricant capacity: litres pints 5 quarts U.S.
- (SP) 153. Oil cooler: ~~xxxx~~ (no)
- \* 154. Method of engine cooling: Water
- 155. Capacity of cooling system: litres pints 17.9 quarts U.S.
- (SP) 156. Cooling fan (if fitted) diameter: 48.26 cm 19.0 inches
- (SP) 157. Number of blades of cooling fan: Five (5)

BEARINGS Aluminum on

- \* 158. Crankshaft, main, type: Steel Diameter: 82.55 mm 3.25 inches
- \* 159. Connecting rod, big end, type: Diameter: 57.2 mm 2.250 inches

WEIGHTS

- (SP) 160. Flywheel (clean): 15.44 kg 34 lbs
- (SP) 161. Flywheel with clutch (all rotating parts): 24.74 kg 54.5 lbs
- (SP) 162. Crankshaft: 31.78 kg 70.0 lbs
- (SP) 163. Connecting Rod: .79 kg 1.75 lbs
- (SP) 164. Piston with rings and pin: .63 kg 1.38 lbs



MAKE Pontiac

MODEL Firebird Trans Am

FIA REC # 1652

2/2

FOUR CYCLE ENGINES

- \* 170. Number of camshafts: One
- \* 171. Location of camshaft: Cylinder Block
- \* 172. Type of camshaft drive: Chain and Sprocket
- \* 173. Type of valve operation: Push Rod

INLET (see Photo P) +

- 180. Material of inlet manifold: Aluminum
- 181. Overall diameter of valves: 53.7 mm 2.113 inches
- (SP) 182. Maximum valve lift: 10.41 mm .410 inches
- 183. Number of valve springs: 2/Valve
- 184. Type of spring: Coil
- \* 185. Number of valves per cylinder: One
- (SP) 186. Tappet clearance for checking timing (cold) \_\_\_\_\_ mm N.A. inches
- (SP) 187. Valves open at (with tolerance for tappet clearance indicated): 31°BTC .002" @Valv
- (SP) 188. Valves close at (with tolerance for tappet clearance indicated): 77°ABC .008" @Valv
- (SP) 189. Air filter: ~~xxxx~~ (dry) Cartridge type: (yes) ~~(yes)~~

EXHAUST (see Photo Q)

- 195. Material of exhaust manifold: Cast Iron
- 196. Overall diameter of valves: 45 mm 1.773 inches
- (SP) 197. Maximum valve lift: 10.5 mm .413 inches
- 198. Number of valve springs: 2/Valve
- 199. Type of spring: Coil
- \* 200. Number of valves per cylinder: One
- (SP) 201. Tappet clearance for checking timing (cold) \_\_\_\_\_ mm N.A. inches
- (SP) 202. Valves open at (with tolerance for tappet clearance indicated): 90°BBC .002" @Valv
- (SP) 203. Valves close at (with tolerance for tappet clearance indicated): 32°ATC .008" @Valv
- (SP) 204. Inside diameter of exhaust manifold outlet: 2.25" 57.15 mm

CARBURETION (see Photo N)

- 210. Number of carburetors fitted: One
- (SP) 211. Type: Down Draft
- (SP) 212. Make: Rochester
- (SP) 213. Model: 4MV Quadra-jet
- 214. Number of mixture passages per carburetor: 4 35.09 1.38 inches Primary
- (SP) 215. Flange hole diameter of exit port of carburetor: 57.15 mm 2.25 inches Second
- (SP) 216. Depending on type of carburetor, indicate: diameter at throat of venturi/s  
at the plane of maximum restriction. Dimension of mixture passage at the  
point of maximum restriction with the piston in its maximum open position  
(example SU type): 25.4 mm 1.00 inches Primary

+ For additional information concerning two-stroke engines and supercharged engines, add supplementary page

MAKE Pontiac

MODEL Firebird Trans Am FIA REC # 1652

2/81

INJECTION (if fitted) N.A.

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

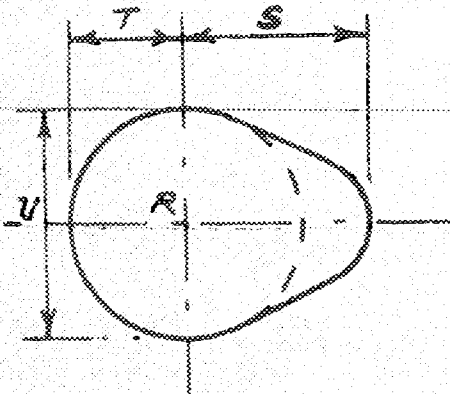
ENGINE ACCESSORIES

- (SP)230. Fuel pump: ~~mechanical~~ ~~or~~ ~~or~~ ~~electric~~
- 231. Number fitted: One
- 232. Type of ignition system: Coil
- 233. Number of distributors: One
- 234. Number of ignition coils: One
- 235. Number of spark plugs per cylinder: One
- (SP)236. Generator type: ~~(synchro)~~ (alternator) Number: One
- 237. Method of drive: Belt (V-Type)
- 238. Voltage of generator: 12 Volts
- 239. Battery, number: One
- 240. Location of battery: Engine Compartment
- 241. Voltage of battery: 12 volts

ENGINE & CAR PERFORMANCE (as declared by manufacturer in catalog)

- (SP)250. Horsepower, maximum engine output: 335 at: 4800 rpm  
(indicate SAE ~~SP~~ ~~CON~~)
- (SP)251. Maximum rpm: 5000 (SP) Output at that figure: 335
- (SP)252. Maximum torque: 480 at: 3600 rpm
- (SP)253. Maximum speed: \_\_\_\_\_ km/hour 125 miles/hour

254. CAM



(SP) <u>Inlet cam</u>			
S =	23.85	mm	.939 inches
T =	16.94	mm	.667 inches
U =	33.88	mm	1.334 inches
(SP) <u>Exhaust cam</u>			
S =	23.84	mm	.9386 inches
T =	16.94	mm	.667 inches
U =	33.88	mm	1.334 inches