



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

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

Original  
1528

Federation Internationale de l'Automobile  
FORM OF RECOGNITION

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

Cylinder capacity 4956.3 cm3 302.3 in3

Manufacturer Pontiac Model Firebird 22337

Serial # Chassis 223378L100001 Manufacturer Pontiac

Serial # Engine - Manufacturer Pontiac

Recognition valid from 1st May 1968 List 1968/6

The manufacturing of the model described in this recognition form was started on Dec. 1, 1967 and the minimum production of 1000 identical cars, in accordance with the specifications of this form, was reached on March 10, 1968.

- (\*) 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 \*\*



*Handwritten signatures and notes:*  
Steel  
John V. Oliveau  
Banyan  
Feminin  
JMS

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

*Handwritten signature of John V. Oliveau*  
JOHN V. OLIVEAU  
TECHNICAL DIRECTOR  
ACCUS, F.I.A., INC.

Stamp/Signature  
F.I.A.

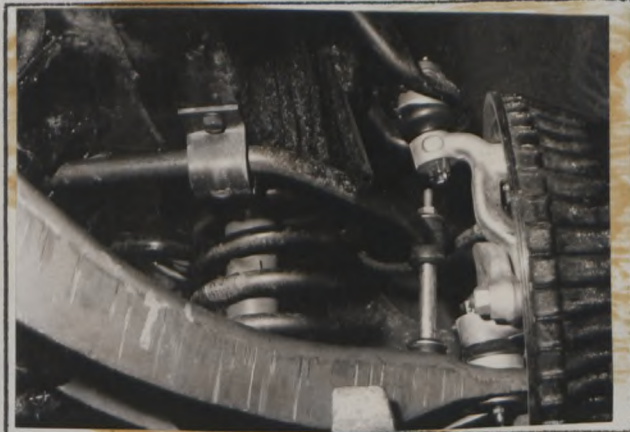
B 3/4 rear car (\*\*)



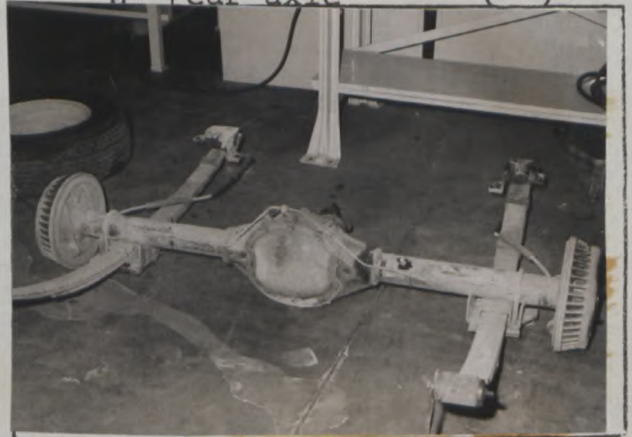
C interior-car (\*\*)



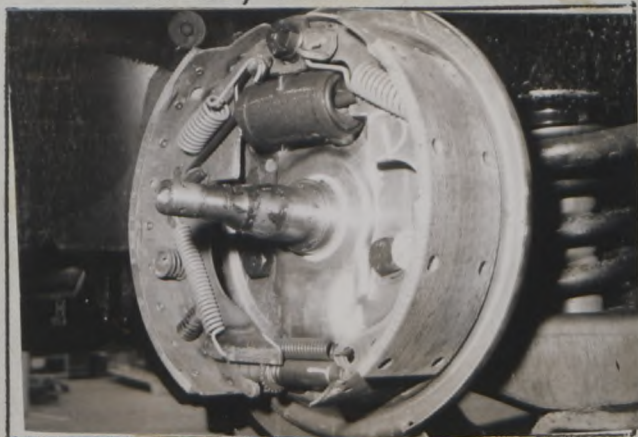
D front axle (\*\*)



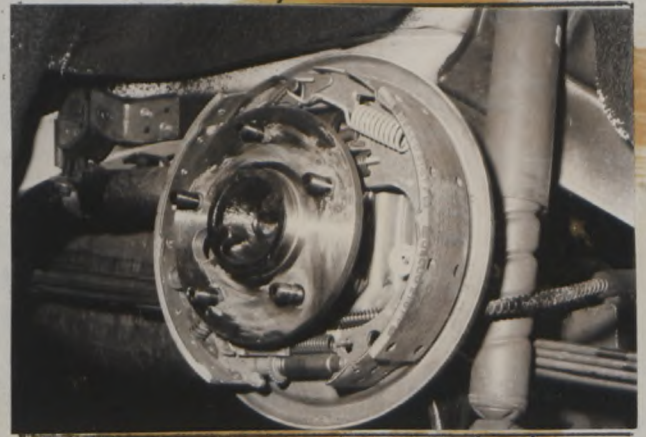
E rear axle (\*\*)



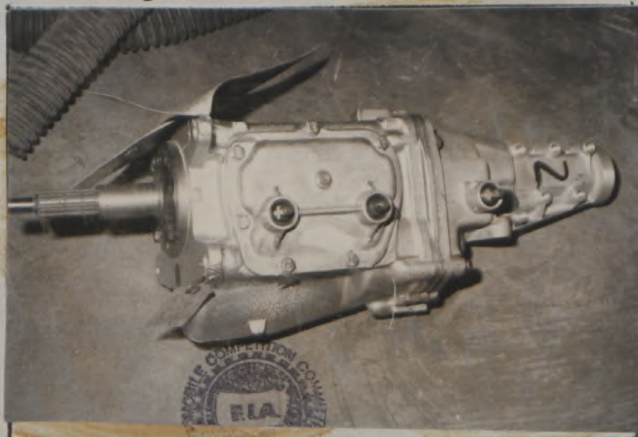
F brake, front (\*\*)



G brake, rear (\*\*)



H gear box (\*\*)



I exhaust system (\*)

NOT REQUIRED  
muffler and exhaust pipes  
after exhaust manifold

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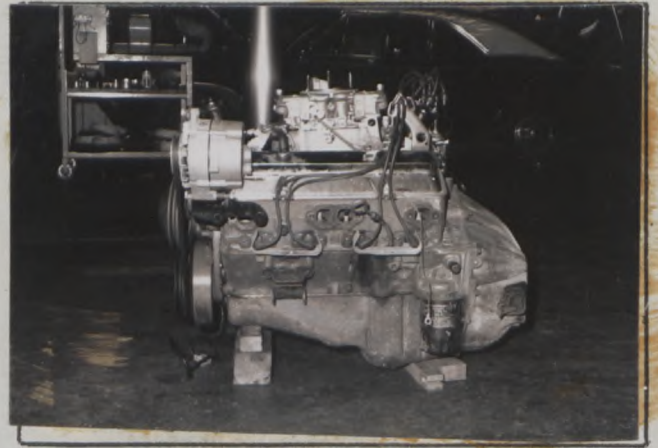
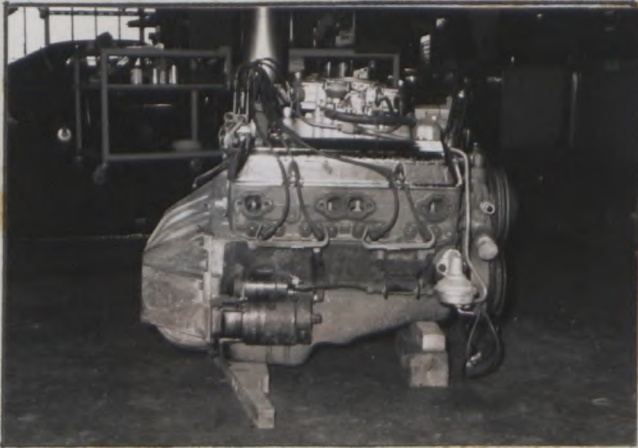
MAKE PONTIAC FIREBIRD

MODEL 22337

FIA REC #

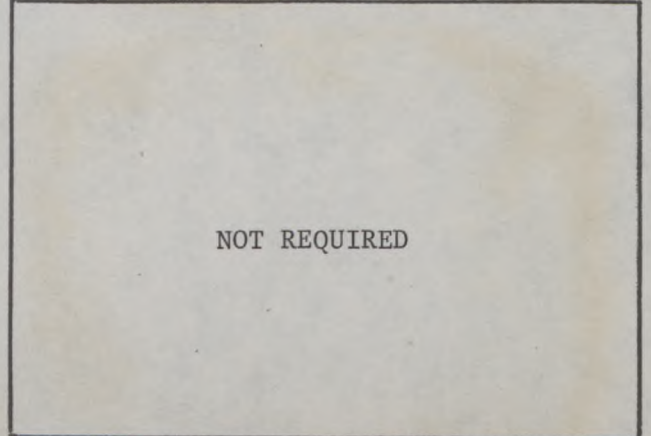
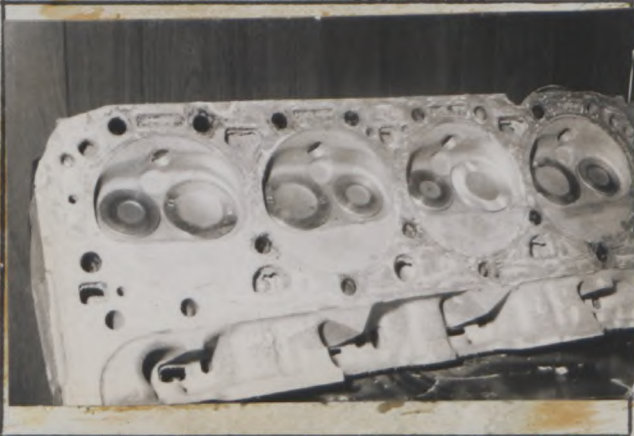
J ENGINE RIGHT (\*\*)

K ENGINE LEFT (\*\*)



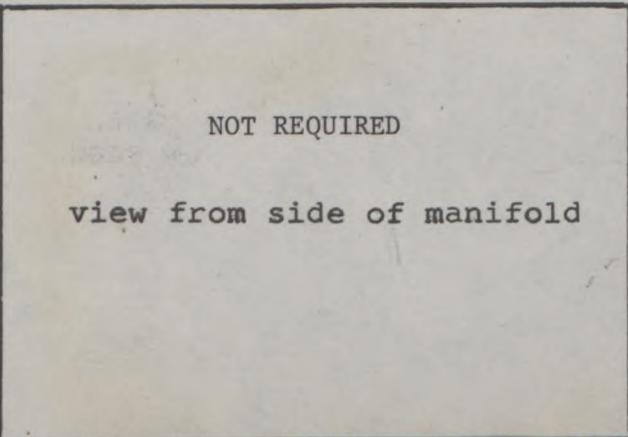
L COMBUSTION CHAMBER

M PISTON TOP (\*)



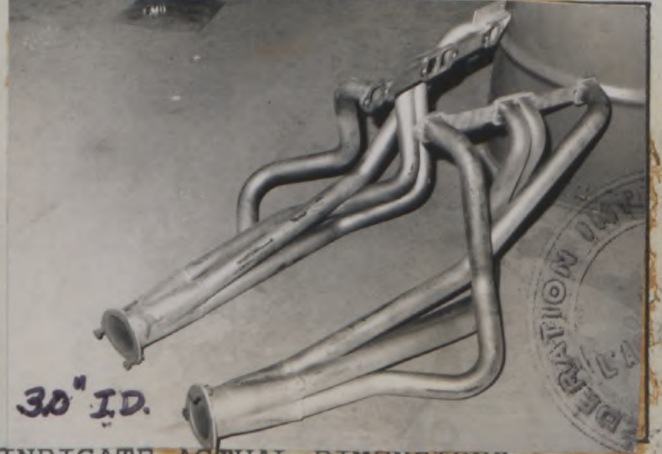
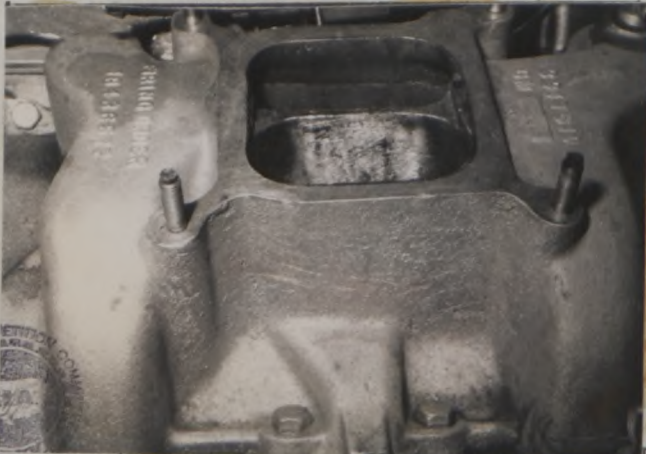
N CARBURETOR (\*)

O ENGINE IN PLACE (\*\*)



P MANIFOLD INLET

Q MANIFOLD EXHAUST



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

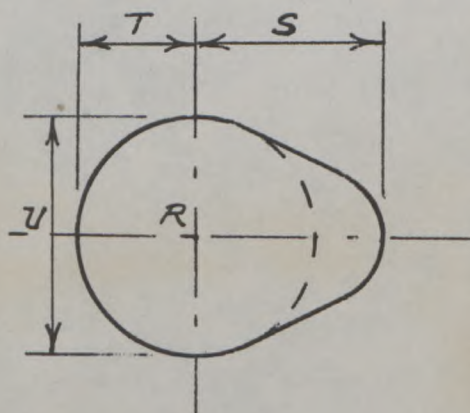
\*Exhaust

Manifold  
Porting  
Cyl. Head  
Face

\*Cylinder

Head  
Porting  
Exhaust  
Face

CAM



Inlet cam

S=23.47/23.42 mm .9241/.9221 in  
T=15.26/15.21 mm .6007/.5987 in  
U=30.52/30.42 mm 1.201/1.197 in

Exhaust cam

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

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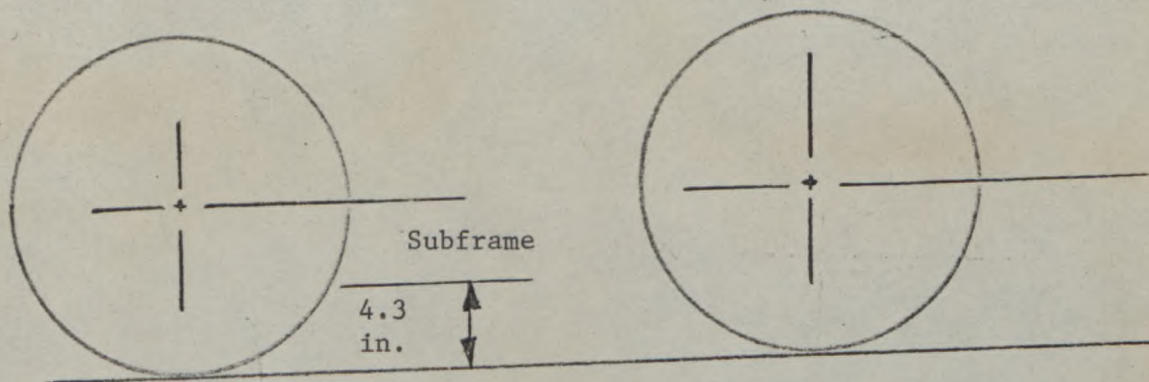
**IMPORTANT:** Questions 1 through 9 must be answered in two measuring systems, one of which must be the metric system. See conversion table at index.

**CAPACITIES & DIMENSIONS**

- (\*\*) 1. Wheelbase 2745.7 mm 108.1 in
  - (\*\*) 2. Front track 1524.0 mm 60.0 in + .5
  - (\*\*) 3. Rear track 1524.0 mm 60.0 in + .5
- + 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"



Front of Car

- 4. Overall length of car 479.6 cm 188.8 in
- 5. Overall width of car 184.9 cm 72.8 in
- 6. Overall height of car 127.0 cm 50.0 in
- 7. Capacity of fuel tank (reserve included) 140.0 ltrs.  
37.0 gallons US 30.8 gallons, Imp.
- 8. Seating capacity 4
- (\*\*) 9. Weight - total weight of car with normal equipment, water, oil and spare wheel but without fuel or repair tools. 127.9 kg 2819 lbs

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CHASSIS & BODYWORK - Photos A, B, C

- (\*\*) 20. Chassis/body construction - separate/unit construction  
Body frame integral and separate frame.
- (\*\*) 21. Unit construction - material/s 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 --
- 31. Windows - actuating system Sector Gear and Linkage
- 32. Window, rear quarter - material/s Tempered Glass

ACCESSORIES AND UPHOLSTERY

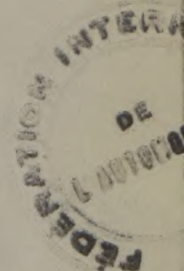
- 38. Heating, interior - yes  no  Optional
- 39. Air conditioning - yes  no  Optional
- 40. Ventilation -  yes  no
- (\*) 41. Seats, front - type of seat and upholstery
- 42. Seats, front - weight  
 (complete with supports & rails out of car) kg lbs
- CHECK: BENCH \_\_\_\_\_ BUCKET  X \_\_\_\_\_ CONSOLE INCLUDED  NO \_\_\_\_\_
- 43. Seats, rear - type of seat and upholstery Bench, Cloth Trimmed
- 44. Bumper, front - material/s Steel kg 9.62 lbs 21.2 Weight
- 45. Bumper, rear - material/s Steel kg 7.35 lbs 16.2 Weight

WHEELS

- 50. Type Pressed Steel
- 51. Weight (per wheel, without tire) 7.35kg 16.2 lbs
- 52. Method of attachment 5 Lug Bolts
- 53. Rim, diameter 381.0 mm 15.0 in
- 54. Rim, width 152.4 mm 6.0 in

STEERING

- 60. Type Recirculating Ball Bearing
- 61. Servo assistance Optional
- 62. Number of turns of steering wheel from lock to lock 4.7
- 63. In case of servo assistance 2.5



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SUSPENSION

- (\*\*) 70. Suspension, front (photo D) - type Short and Long Arm, Independent
- (\*\*) 71. Spring - type Coil
- (\*) 72. Stabilizer - if fitted
- 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
- 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
- 92. Master Cylinders - number and type Duplex  
(indicate if duplex master cylinder) Front Rear
- 93. Cylinders - number per wheel 1 1
- 94. Cylinders - wheel bore 28.58 mm 1.125 in <sup>22.23</sup> mm .875 in  
(indicate stepped bore dimensions if applicable)

Drum Brakes

- |                              |                        | <u>Front</u>                 | <u>Rear</u>  |
|------------------------------|------------------------|------------------------------|--|
| 95. Diameter, inside         | 241.3 mm               | 9.5 in <sup>241.3</sup> mm   | 9.5 in   |
| 96. Linings, length          | 443.2 mm               | 17.45 in <sup>443.2</sup> mm | 17.45 in   |
| 97. Linings, width           | 63.5 mm                | 2.5 in                       | 2.0 in   |
| 98. Shoes - number per brake |                        | 2                            | 2  |
| 99. Area, total - per brake  | 2812.2 mm <sup>2</sup> | 243.6 in <sup>2</sup>        | <sup>2251.1</sup> mm <sup>2</sup> 34.9 in <sup>2</sup> |

Disc Brakes

- |                              |                        |                      |                 |                 |
|------------------------------|------------------------|----------------------|-----------------|-----------------|
| 100. Diameter, outside       | 279.4 mm               | 11.0 in              | mm              | in              |
| 101. Thickness of disc       | 25.4 mm                | 1.0 in               | mm              | in              |
| 102. Lining - length         | 151.4 mm               | 5.96 in              | mm              | in              |
| 103. Lining - width          | 56.1 mm                | 2.21 in              | mm              | in              |
| 104. Pads - number per brake |                        | 2                    |                 |                 |
| 105. Area, total - per brake | 1393.6 mm <sup>2</sup> | 21.6 in <sup>2</sup> | mm <sup>2</sup> | in <sup>2</sup> |

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

BEARINGS

- (\*\*) 158. Crankshaft, main - type Aluminum On Steel diameter 62.23 mm 2.45 in
- (\*\*) 159. Connecting rod, big end - type Aluminum On Steel diameter 53.34 mm 2.10 in

WEIGHTS

- ( \*) 160. Flywheel (clean) kg lbs
- ( \*) 161. Flywheel with clutch (all rotating parts) kg lbs
- ( \*) 162. Crankshaft kg lbs
- 163. Connecting Rod .567 kg 1.250 lbs (See Below)
- ( \*) 164. Piston with rings & pin kg 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 Pushrod

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 51.31 mm 2.02 in
- ( \*) 182. Valve lift - maximum mm in
- 183. Springs, valve - number 8 + 8 Dampers
- 184. Spring - type Coil
- (\*\*) 185. Valves, per cylinder - number One
- ( \*) 186. Tappet - clearance for checking timing (cold) mm in
- ( \*) 187. Valves - open at (with tolerance for tappet clearance indicated)
- ( \*) 188. Valves - close at (with tolerance for tappet clearance indicated)
- ( \*) 189. Air filter - type

NOTE: Connecting rod weight consists of rod, cap, bolt & nuts.

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EXHAUST (See Photo Q )

- 195. Manifold, exhaust - material/s Steel Tubing
- 196. Valves (overall) - diameter 40.64 mm 1.60 in
- 197. Valve, lift - maximum 11.557 mm .455 in
- 198. Valve Springs/valve - number One per Valve + One Damper. per Valve
- 199. Springs - type Coil
- (\*\*) 200. Valves - number per cylinder One
- ( \*) 201. Tappet - clearance for checking timing (cold)  
mm in
- ( \*) 202. Valves - open at (with tolerance for tappet  
clearance indicated)
- ( \*) 203. Valves - close at (with tolerance for tappet  
clearance indicated)

CARBURETION (See Photo N)

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

INJECTION

- 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 FIREBIRD MODEL 22337 FIA REC #           

ENGINE ACCESSORIES

- ( \*) 230. Pump, fuel - mechanical and/or electrical
- 231. Number fitted        One
- 232. Ignition system - type        Coil or Transistor
- 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
- 238. Voltage, generator - volts        12
- 239. Battery - number        One
- 240. Location        In Trunk
- 241. Voltage - volts    12 amp hrs    45

ENGINE & CAR PERFORMANCE as declared by mfr. in catalogue

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

DRIVE TRAIN

Clutch

- 260. Type        Dry Plate
- 261. Plates - number of driven        One
- 262. Plates - diameter        26.416 cm        10.4 in
- 263. Linings - diameter - inside    16.51 cm        6.5 in
- Linings - diameter - outside 26.416 cm        10.4 in
- 264. Method of operation        Mechanical

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Gear Box (Photo H)

- (\*\*) 270. Manual type - make Chevrolet
- (\*\*) 271. Ratios, forward - number 4
- 272. Ratios, forward - number synchronized 4
- 273. Gear-Shift - location Floor optional
- (\*\*) 274. Automatic - make NA type
- (\*\*) 275. Ratios, forward - number
- 276. Gear-Shift - location

277.	Manual		Automatic		Alternative manual/automatic			
	Ratio	# Teeth	Ratio	# Teeth	Ratio	# Teeth	Ratio	# Teeth
1	2.20	$\frac{27}{26} \times \frac{36}{17}$			2.52	$\frac{25}{21} \times \frac{36}{17}$		
2	1.64	$\frac{27}{26} \times \frac{30}{19}$			1.88	$\frac{25}{21} \times \frac{30}{19}$		
3	1.27	$\frac{27}{26} \times \frac{27}{22}$			1.47	$\frac{25}{21} \times \frac{27}{22}$		
4	1.00				1.00			
5								
6								
reverse	2.26	$\frac{27}{25} \times \frac{18}{17} \times \frac{35}{17}$			2.89	$\frac{25}{21} \times \frac{18}{17} \times \frac{35}{17}$		

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



FINAL DRIVE

- (\*\*) 290. Type Hotchkiss
- (\*\*) 291. Differential - type Positraction
- (\*\*) 292. Limited Slip Differential (if fitted) - type ≠ Friction

293. Ratio	3.08	3.36	3.55	3.90	4.1	4.56	4.88
Teeth - number	40,13	11,37	39,11	39,10	41,10	41,9	39,8

( ≠ ) Specify friction or positive locking type



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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

Spoiler - Rear Deck Mounted - Part Number 3916633 (See Photo).  
Front Valance - Part Number 3916673 (See Photo).

*Steel  
Spacers*



Bucket Seats: (Items 41 and 42) (Optional)  
Molded Fiberglass - Part Number 3931548 - Weight Complete out of car - 9.97 kg., 22.0 lbs.  
Radiator: (Optional)  
Part Number 3010180 - Capacity 24 qt., 22.7 litres.

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Optional Equipment - CATALOGUE PART NUMBER MUST BE GIVEN

Wheels: (Item 50)

Cast Magnesium 7.00 x 15 in.	380 mm dia. x 178 mm wide
Part Number: 3931546	Weight: 14.0 lbs., 6.35 kg.
Cast Magnesium 8.00 x 15 in.	380 mm dia. x 203.2 mm wide
Part Number: 3931547	Weight: 14.5 lbs., 6.56 kg.

Track for Magnesium Wheels:

Front 61.5 in., 1562.1 mm  
Rear 61.5 in., 1562.1 mm

Optional Auxiliary Fuel Tank:

Part Number: 3909904 Capacity: 18.5 gals. (See Page 5)

Optional Axle Ratios: (In addition to those listed on Page 12)

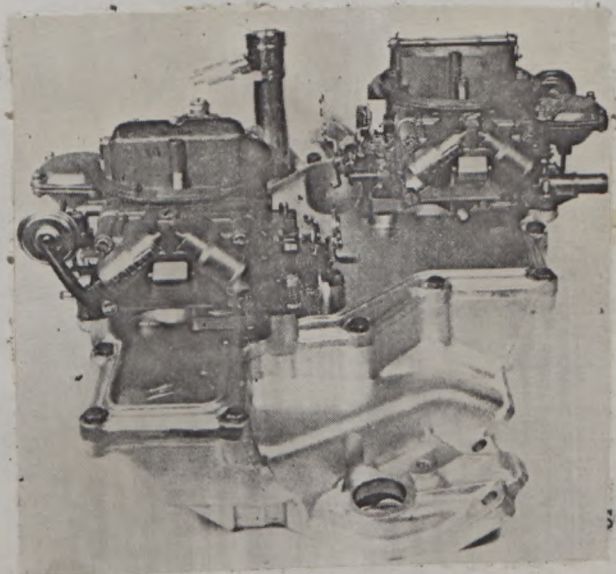
<u>Ratio</u>	<u>Teeth</u>	<u>Pt. No.</u>
3.23:1	13/42	9773233
4.33:1	9/39	9780494

Optional Inlet Manifold (Item 180):

Part Number: 3940077 (See Photo)

*Spencer*  
*Inlet*

D. Manifold Inlet



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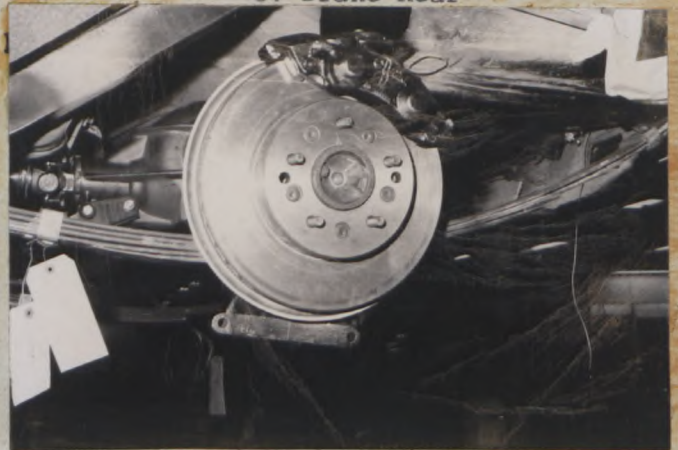
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F. Brake Front



G. Brake Rear



RPO J 56 Heavy Duty Disc Brakes - Optional

Item

- 93. Cylinders - Number per wheel - Front - 4 Rear - 4
- 94. Cylinders - Wheel Bore - Front 1.875 in. 47.6 mm  
Rear 1.375 in. 35.0 mm
- 100. Disc Dia. outside 

<u>Front</u>	<u>Rear</u>
11.75 in. - 298.4 mm	11.75 in. - 298.4 mm
- 101. Thickness of Disc 

1.25 in. - 31.75 mm	1.25 in. - 21.52 mm
---------------------	---------------------
- 102. Lining Length 

5.96 in. - 151.4 mm	5.96 in. - 151.4 mm
---------------------	---------------------
- 103. Lining Width 

2.21 in. - 56.1 mm	2.21 in. - 56.1 mm
--------------------	--------------------
- 104. Pads - Number per Brake 

2	2
---	---
- 105. Area, total - per brake 

26.3 in. <sup>2</sup> - 1696.8 mm <sup>2</sup>	26.3 in. <sup>2</sup> - 1696.8 mm <sup>2</sup>
--	--
- 203. Pump fuel - electrical #AC-EP-12 Optional

*In line  
specification*

Alternative Transmission Ratio

Ratio	Teeth
2.34	$\frac{27}{26} \times \frac{36}{16}$
1.53	$\frac{27}{26} \times \frac{28}{19}$
1.18	$\frac{27}{26} \times \frac{25}{22}$
1.00	Direct

Ratio	Teeth
2.20	$\frac{27}{26} \times \frac{36}{17}$
1.43	$\frac{27}{26} \times \frac{29}{21}$
1.19	$\frac{27}{26} \times \frac{25}{22}$
1.00	Direct



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FORM OF RECOGNITION

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

Cylinder capacity 4956.3 cm3 302.3 in3

Manufacturer Pontiac Model Firebird 22337

Serial # Chassis 223378L100001 Manufacturer Pontiac

Serial # Engine - Manufacturer Pontiac

Recognition valid from 1st May 1968 List 1968/6

The manufacturing of the model described in this recognition form was started on Dec. 1, 1967 and the minimum production of 1000 identical cars, in accordance with the specifications of this form, was reached on March 10, 1968.

- (\*) 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 <u>19</u>	rec # <u>    </u>	list <u>    </u>
on <u>19</u>	rec # <u>    </u>	list <u>    </u>
on <u>19</u>	rec # <u>    </u>	list <u>    </u>

Normal evolution of the type

on <u>19</u>	rec # <u>    </u>	list <u>    </u>
on <u>19</u>	rec # <u>    </u>	list <u>    </u>
on <u>19</u>	rec # <u>    </u>	list <u>    </u>

Stamp/Signature of  
National Sporting Authority

Stamp/Signature  
F.I.A.

*John V. Oliveau*  
JOHN V. OLIVEAU  
TECHNICAL DIRECTOR  
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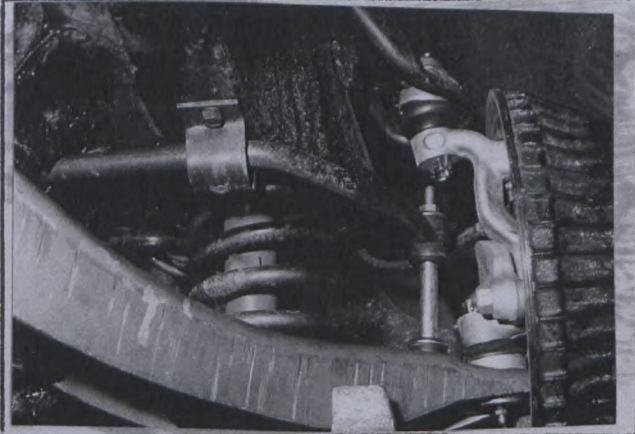
B 3/4 rear car (\*\*)



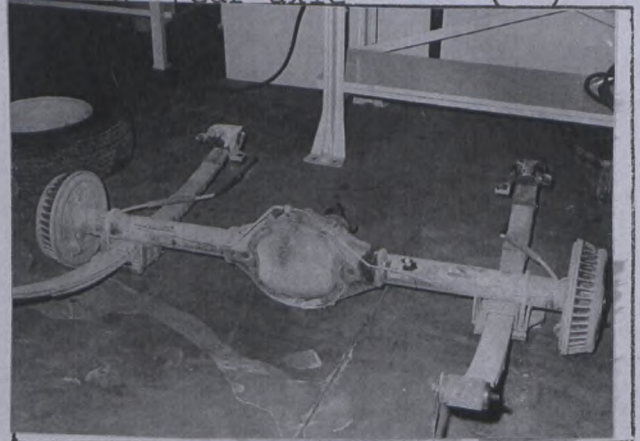
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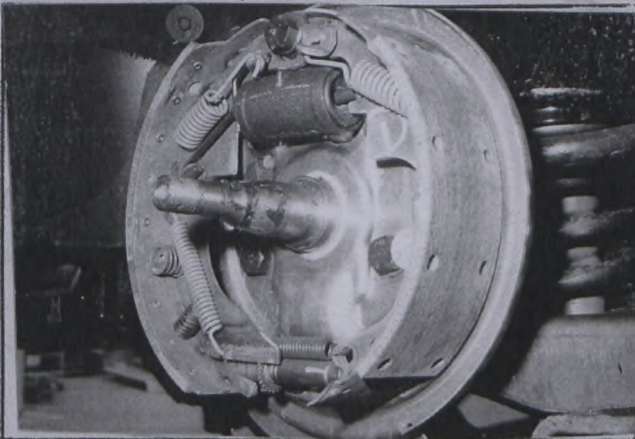
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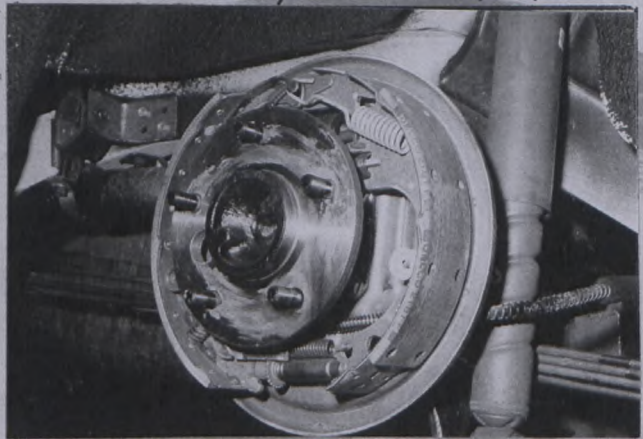
E rear axle (\*\*)



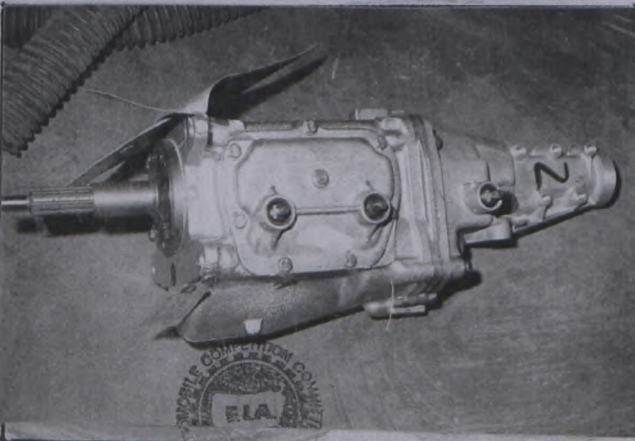
F brake, front (\*\*)



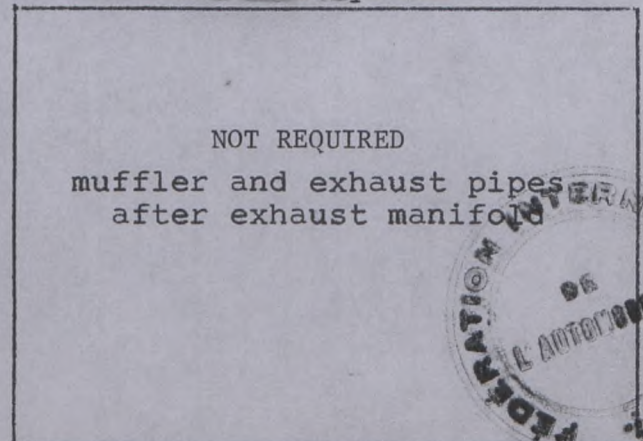
G brake, rear (\*\*)



H gear box (\*\*)



I exhaust system (\*)

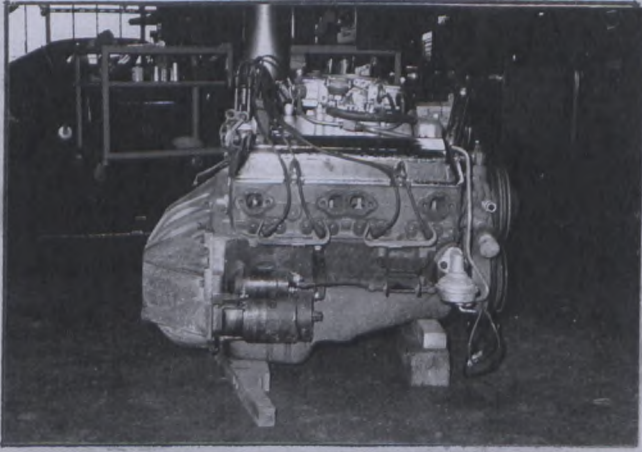


NOT REQUIRED  
muffler and exhaust pipes  
after exhaust manifold

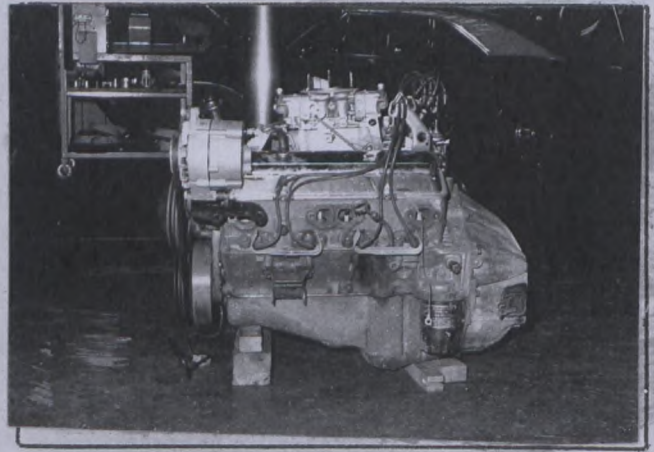


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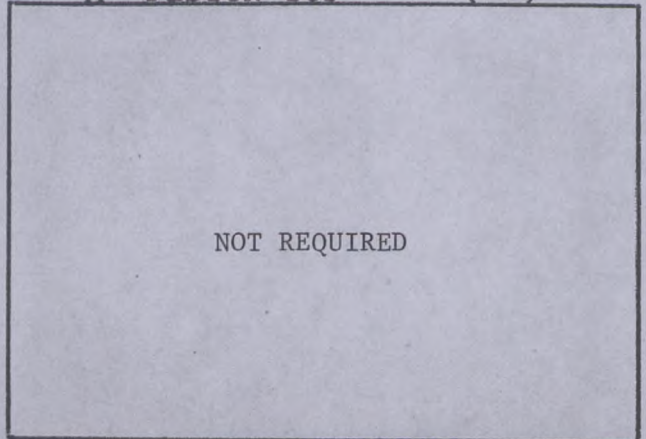
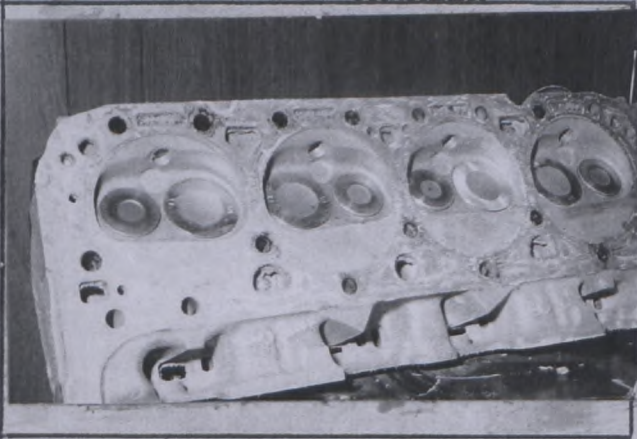
STAMP



**L COMBUSTION CHAMBER**

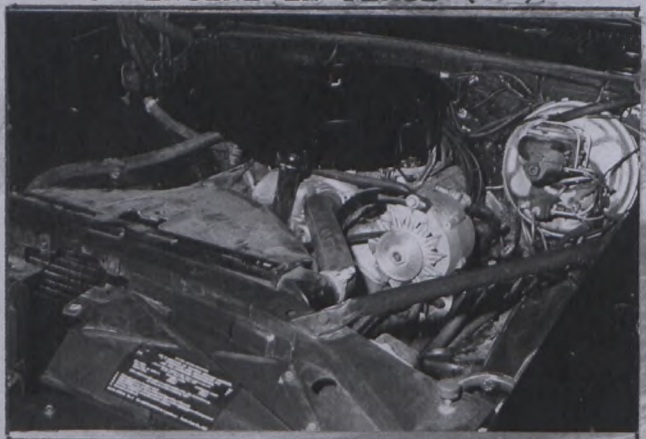
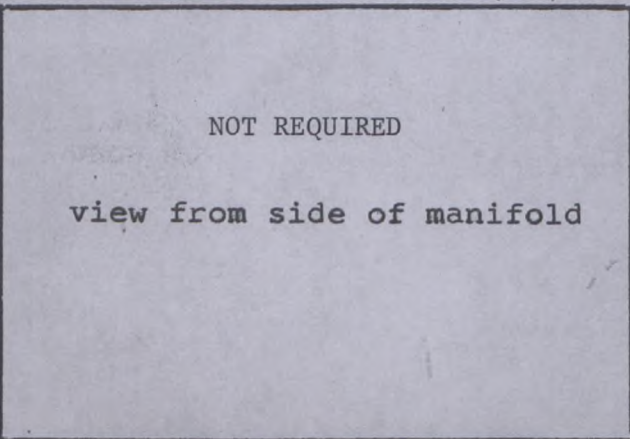


**M PISTON TOP (\*)**



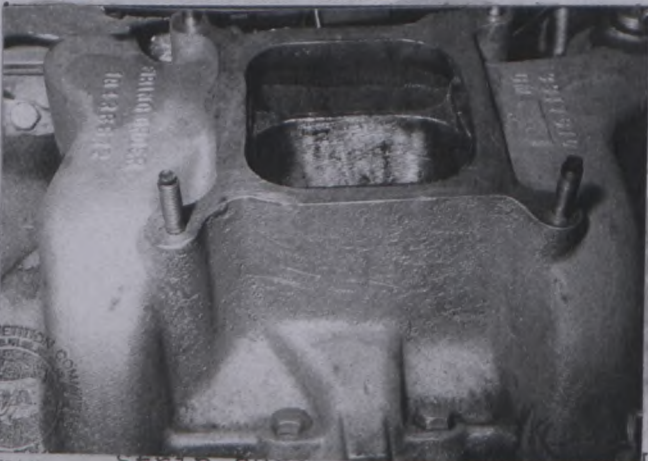
**N CARBURETOR (\*)**

**O ENGINE IN PLACE (\*\*)**



**P MANIFOLD INLET**

**Q MANIFOLD EXHAUST**



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

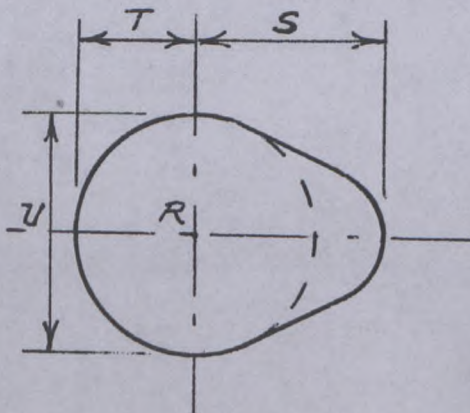
\*Exhaust

Manifold  
Porting  
Cyl. Head  
Face

\*Cylinder

Head  
Porting  
Exhaust  
Face

CAM



Inlet cam

S=23.47/23.42 mm .9241/.9221 in  
T=15.26/15.21 mm .6007/.5987 in  
U=30.52/30.42 mm 1.201/1.197 in

Exhaust cam

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

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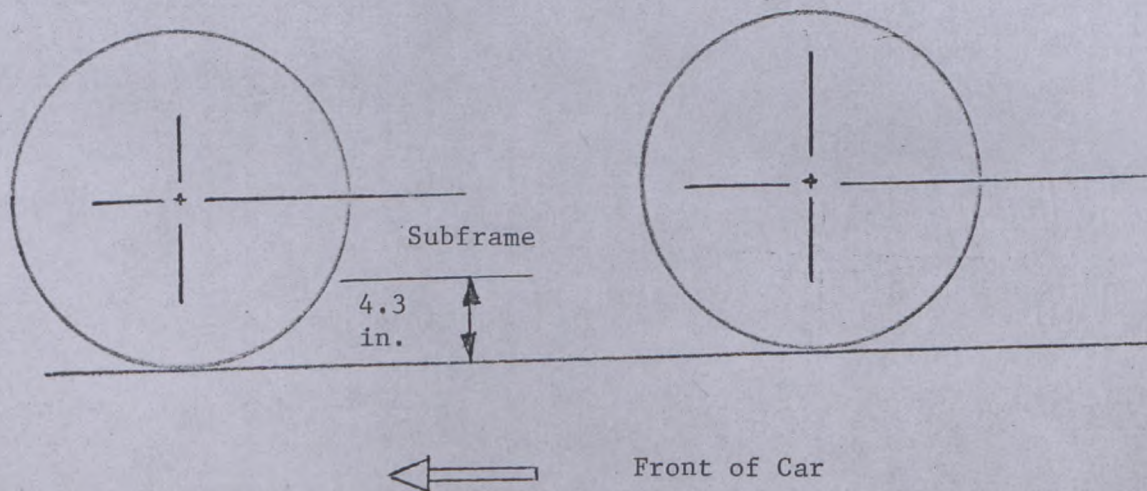
**IMPORTANT:** Questions 1 through 9 must be answered in two measuring systems, one of which must be the metric system. See conversion table at index.

**CAPACITIES & DIMENSIONS**

- (\*\*) 1. Wheelbase 2745.7 mm 108.1 in
  - (\*\*) 2. Front track 1524.0 mm 60.0 in + .5
  - (\*\*) 3. Rear track 1524.0 mm 60.0 in + .5
- + 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.

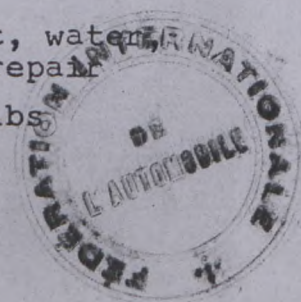
Sketch, Ground Clearance: Dimensional Suspension & Chassis Reference Points"



- 4. Overall length of car 479.6 cm 188.8 in
- 5. Overall width of car 184.9 cm 72.8 in
- 6. Overall height of car 127.0 cm 50.0 in
- 7. Capacity of fuel tank (reserve included) 140.0 ltrs.  
37.0 gallons US 30.8 gallons, Imp.
- 8. Seating capacity 4
- (\*\*) 9. Weight - total weight of car with normal equipment, water, oil and spare wheel but without fuel or repair tools. 127.9 kg 2819 lbs



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CHASSIS & BODYWORK - Photos A, B, C

- (\*\*) 20. Chassis/body construction - separate/unit construction  
Body frame integral and separate frame.
- (\*\*) 21. Unit construction - material/s 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 --
31. Windows - actuating system Sector Gear and Linkage
32. Window, rear quarter - material/s Tempered Glass

ACCESSORIES AND UPHOLSTERY

38. Heating, interior - yes no Optional
39. Air conditioning - yes no Optional
40. Ventilation - yes no
- (\*) 41. Seats, front - type of seat and upholstery
42. Seats, front - weight  
 (complete with supports & rails out of car) kg lbs
- CHECK: BENCH \_\_\_\_\_ BUCKET X CONSOLE INCLUDED NO
43. Seats, rear - type of seat and upholstery Bench, Cloth Trimmed
44. Bumper, front - material/s Steel kg 9.62 lbs 21.2 Weight
45. Bumper, rear - material/s Steel kg 7.35 lbs 16.2 Weight

WHEELS

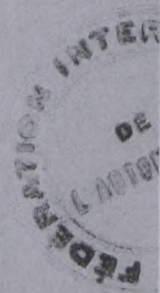
50. Type Pressed Steel
51. Weight (per wheel, without tire) 7.35kg 16.2 lbs
52. Method of attachment 5 Lug Bolts
53. Rim, diameter 381.0 mm 15.0 in
54. Rim, width 152.4 mm 6.0 in

STEERING

60. Type Recirculating Ball Bearing
61. Servo assistance Optional
62. Number of turns of steering wheel from lock to lock 4.7
63. In case of servo assistance 2.5

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SUSPENSION

- (\*\*) 70. Suspension, front (photo D) - type Short and Long Arm, Independent
- (\*\*) 71. Spring - type Coil
- (\*) 72. Stabilizer - if fitted
- 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
- 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

92. Master Cylinders - number and type (indicate if duplex master cylinder)	Duplex		
	<u>Front</u>		<u>Rear</u>
93. Cylinders - number per wheel	1		1
94. Cylinders - wheel bore (indicate stepped bore dimensions if applicable)	28.58 mm	1.125 in	<sup>22.23</sup> mm .875 in

<u>Drum Brakes</u>		<u>Front</u>		<u>Rear</u>
95. Diameter, inside	241.3 mm	9.5 in	<sup>241.3</sup> mm	9.5 in
96. Linings, length	443.2 mm	17.45 in	<sup>443.2</sup> mm	17.45 in
97. Linings, width	63.5 mm	2.5 in	mm	2.0 in
98. Shoes - number per brake		2		2
99. Area, total - per brake	2812.2 mm <sup>2</sup>	243.6 in <sup>2</sup>	<sup>2251.1</sup> mm <sup>2</sup>	234.9 in <sup>2</sup>

Disc Brakes

100. Diameter, outside	279.4 mm	11.0 in	mm	in
101. Thickness of disc	25.4 mm	1.0 in	mm	in
102. Lining - length	151.4 mm	5.96 in	mm	in
103. Lining - width	56.1 mm	2.21 in	mm	in
104. Pads - number per brake		2		
105. Area, total - per brake	1393.6 mm <sup>2</sup>	221.6 in <sup>2</sup>	mm <sup>2</sup>	in <sup>2</sup>

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MAKE PONTIAC FIREBIRDMODEL 22337

FIA REC # \_\_\_\_\_

ENGINE (Photos J and K)

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

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

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

(\*\*) 133. Bore 101.65 mm 4.002 in

(\*\*) 134. Stroke 76.327 mm 3.005 in

(\*\*) 135. Cylinders - capacity 619.538 cm<sup>3</sup> 37.799 in<sup>3</sup>

(\*\*) 136. Cylinders, total capacity <sup>4956.309</sup> cm<sup>3</sup> 302.398 in<sup>3</sup>

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

(\*\*) 138. Sleeves - material/s (if fitted) None

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

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

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

(\*) 142. Compression - ratio

(\*) 143. Combustion chamber - volume cm<sup>3</sup> in<sup>3</sup>

(\*) 144. Piston - material/s

(\*) 145. Rings - number

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

(\*\*) 147. Crankshaft - cast-forged-mach from solid

(\*\*) 148. Crankshaft - type - integral - sectioned - # of sections

(\*\*) 149. Crankshaft, main bearings - number Five

(\*\*) 150. Bearing cap - material/s Cast Iron

151. Lubrication - system - dry sump/oil in sump

152. Lubricant - capacity 8.04 ltrs pts qts US 8.5

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

154. Cooling - method Water

155. Cooling - capacity of system 17.028 ltrs pts

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

BEARINGS

- (\*\*) 158. Crankshaft, main - type Aluminum On Steel diameter 62.23 mm 2.45 in
- (\*\*) 159. Connecting rod, big end - type Aluminum On Steel diameter 53.34 mm 2.10 in

WEIGHTS

- ( \*) 160. Flywheel (clean) kg lbs
- ( \*) 161. Flywheel with clutch (all rotating parts) kg lbs
- ( \*) 162. Crankshaft kg lbs
- 163. Connecting Rod .567 kg 1.250 lbs (See Below)
- ( \*) 164. Piston with rings & pin kg 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 Pushrod

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 51.31 mm 2.02 in
- ( \*) 182. Valve lift - maximum mm in
- 183. Springs, valve - number 8 + 8 Dampers
- 184. Spring - type Coil
- (\*\*) 185. Valves, per cylinder - number One
- ( \*) 186. Tappet - clearance for checking timing (cold) mm in
- ( \*) 187. Valves - open at (with tolerance for tappet clearance indicated)
- ( \*) 188. Valves - close at (with tolerance for tappet clearance indicated)
- ( \*) 189. Air filter - type

NOTE: Connecting rod weight consists of rod, cap, bolt & nuts.

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EXHAUST (See Photo Q )

- 195. Manifold, exhaust - material/s Steel Tubing
- 196. Valves (overall) - diameter 40.64 mm 1.60 in
- 197. Valve, lift - maximum 11.557 mm .455 in
- 198. Valve Springs/valve - number One per Valve + One Damper per Valve
- 199. Springs - type Coil
- (\*\*) 200. Valves - number per cylinder One
- ( \* ) 201. Tappet - clearance for checking timing (cold)  
mm in
- ( \* ) 202. Valves - open at (with tolerance for tappet  
clearance indicated)
- ( \* ) 203. Valves - close at (with tolerance for tappet  
clearance indicated)

CARBURETION (See Photo N)

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

INJECTION

- 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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ENGINE ACCESSORIES

- ( \*) 230. Pump, fuel - mechanical and/or electrical
- 231. Number fitted      One
- 232. Ignition system - type      Coil or Transistor
- 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
- 238. Voltage, generator - volts      12
- 239. Battery - number      One
- 240. Location      In Trunk
- 241. Voltage - volts      12      amp hrs      45

ENGINE & CAR PERFORMANCE as declared by mfr. in catalogue

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

DRIVE TRAIN

Clutch

- 260. Type      Dry Plate
- 261. Plates - number of driven      One
- 262. Plates - diameter      26.416 cm      10.4 in
- 263. Linings - diameter - inside      16.51 cm      6.5 in
- Linings - diameter - outside      26.416 cm      10.4 in
- 264. Method of operation      Mechanical

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Gear Box (Photo H)

- (\*\*) 270. Manual type - make Chevrolet
- (\*\*) 271. Ratios, forward - number 4
- 272. Ratios, forward - number synchronized 4
- 273. Gear-Shift - location Floor optional
- (\*\*) 274. Automatic - make NA type
- (\*\*) 275. Ratios, forward - number
- 276. Gear-Shift - location

277.	Manual		Automatic		Alternative manual/automatic			
	Ratio	# Teeth	Ratio	# Teeth	Ratio	# Teeth	Ratio	# Teeth
1	2.20	$\frac{27}{26} \times \frac{36}{17}$			2.52	$\frac{25}{21} \times \frac{36}{17}$		
2	1.64	$\frac{27}{26} \times \frac{30}{19}$			1.88	$\frac{25}{21} \times \frac{30}{19}$		
3	1.27	$\frac{27}{26} \times \frac{27}{22}$			1.47	$\frac{25}{21} \times \frac{27}{22}$		
4	1.00				1.00			
5								
6								
reverse	2.26	$\frac{27}{25} \times \frac{18}{17} \times \frac{35}{17}$			2.89	$\frac{25}{21} \times \frac{18}{17} \times \frac{35}{17}$		

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



FINAL DRIVE

- (\*\*) 290. Type Hotchkiss
- (\*\*) 291. Differential - type Positraction
- (\*\*) 292. Limited Slip Differential (if fitted) - type  $\neq$  Friction

293. Ratio

3.08	3.36	3.55	3.90	4.1	4.56	4.8
------	------	------	------	-----	------	-----

Teeth - number

40,13	11,37	39,11	39,10	41,10	41,9	39,8
-------	-------	-------	-------	-------	------	------

(  $\neq$  ) Specify friction or positive locking type

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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.

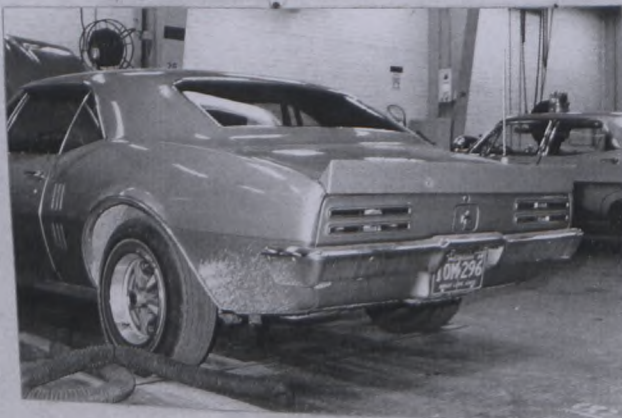
Optional equipment affecting preceding information:

**CATALOGUE PART NUMBER MUST BE GIVEN**

Spoiler - Rear Deck Mounted - Part Number 3916633 (See Photo).

Front Valance - Part Number 3916673 (See Photo).

*Steel  
Aluminum*



Bucket Seats: (Items 41 and 42) (Optional)  
Molded Fiberglass - Part Number 3931548 - Weight Complete out of car - 9.97 kg., 22.0 lbs.

Radiator: (Optional)  
Part Number 3010180 - Capacity 24 qt., 22.7 litres.

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Optional Equipment - CATALOGUE PART NUMBER MUST BE GIVEN

Wheels: (Item 50)

Cast Magnesium 7.00 x 15 in.	380 mm dia. x 178 mm wide
Part Number: 3931546	Weight: 14.0 lbs., 6.35 kg.
Cast Magnesium 8.00 x 15 in.	380 mm dia. x 203.2 mm wide
Part Number: 3931547	Weight: 14.5 lbs., 6.56 kg.

Track for Magnesium Wheels:

Front 61.5 in., 1562.1 mm  
 Rear 61.5 in., 1562.1 mm

Optional Auxiliary Fuel Tank:

Part Number: 3909904 Capacity: 18.5 gals. (See Page 5)

Optional Axle Ratios: (In addition to those listed on Page 12)

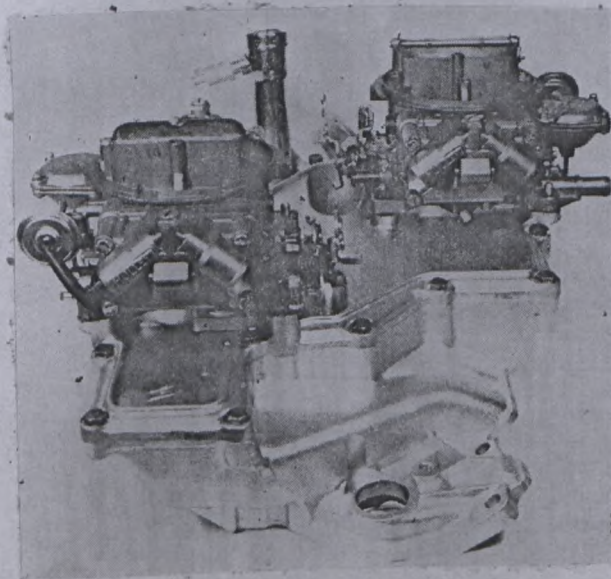
<u>Ratio</u>	<u>Teeth</u>	<u>Pt. No.</u>
3.23:1	13/42	9773233
4.33:1	9/39	9780494

Optional Inlet Manifold (Item 180):

Part Number: 3940077 (See Photo)

*Spencer  
 Inlet*

D. Manifold Inlet

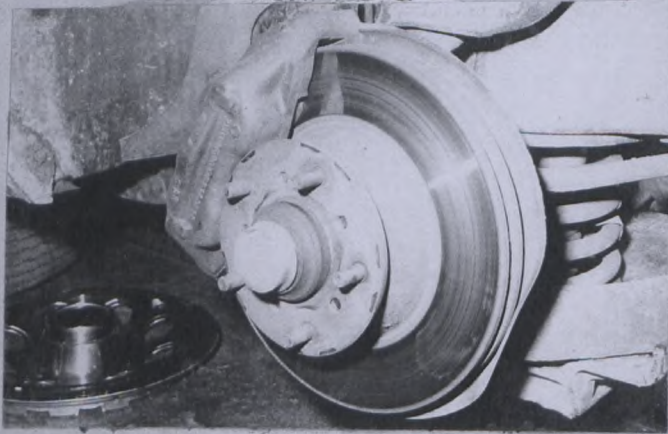


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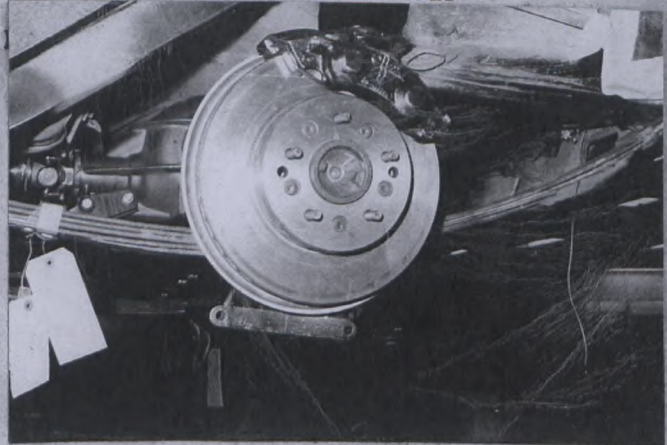
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F. Brake Front



G. Brake Rear



RPO J 56 Heavy Duty Disc Brakes - Optional

Item

93. Cylinders - Number per wheel - Front - 4 Rear - 4
94. Cylinders - Wheel Bore - Front 1.875 in. 47.6 mm  
Rear 1.375 in. 35.0 mm
100. Disc Dia. outside 

<u>Front</u>		<u>Rear</u>
11.75 in. - 298.4 mm		11.75 in. - 298.4 mm
101. Thickness of Disc 

1.25 in. - 31.75 mm		1.25 in. - 21.52 mm
---------------------	--	---------------------
102. Lining Length 

5.96 in. - 151.4 mm		5.96 in. - 151.4 mm
---------------------	--	---------------------
103. Lining Width 

2.21 in. - 56.1 mm		2.21 in. - 56.1 mm
--------------------	--	--------------------
104. Pads - Number per Brake 

2		2
---	--	---
105. Area, total - per brake 

26.3 in. <sup>2</sup> - 1696.8 mm <sup>2</sup>		26.3 in. <sup>2</sup> - 1696.8 mm <sup>2</sup>
--	--	--
203. Pump fuel - electrical #AC-EP-12 Optional

*In line  
Hydraulic*

Alternative Transmission Ratio

Ratio	Teeth
2.34	$\frac{27}{26} \times \frac{36}{16}$
1.53	$\frac{27}{26} \times \frac{28}{19}$
1.18	$\frac{27}{26} \times \frac{25}{22}$
1.00	Direct

Ratio	Teeth
2.20	$\frac{27}{26} \times \frac{36}{17}$
1.43	$\frac{27}{26} \times \frac{29}{21}$
1.19	$\frac{27}{26} \times \frac{25}{22}$
1.00	Direct



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