

THE AUTOMOBILE COMPETITION COMMITTEE
FOR THE UNITED STATES, FIA INC.
515 MADISON AVENUE
NEW YORK 22, N. Y.

TEL: Eldorado 5-0900

CABLE: ACCUSFIA NEW YORK

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Form of Recognition in accordance with Appendix J to the International Sporting Code.

Manufacturers Reference No. for

Application VV2 - P-29

F.I.A. Recognition No. 1331.

Manufacturer Plymouth Division - Chrysler Corporation

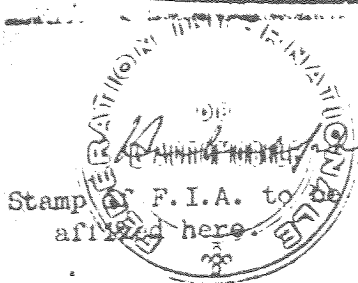
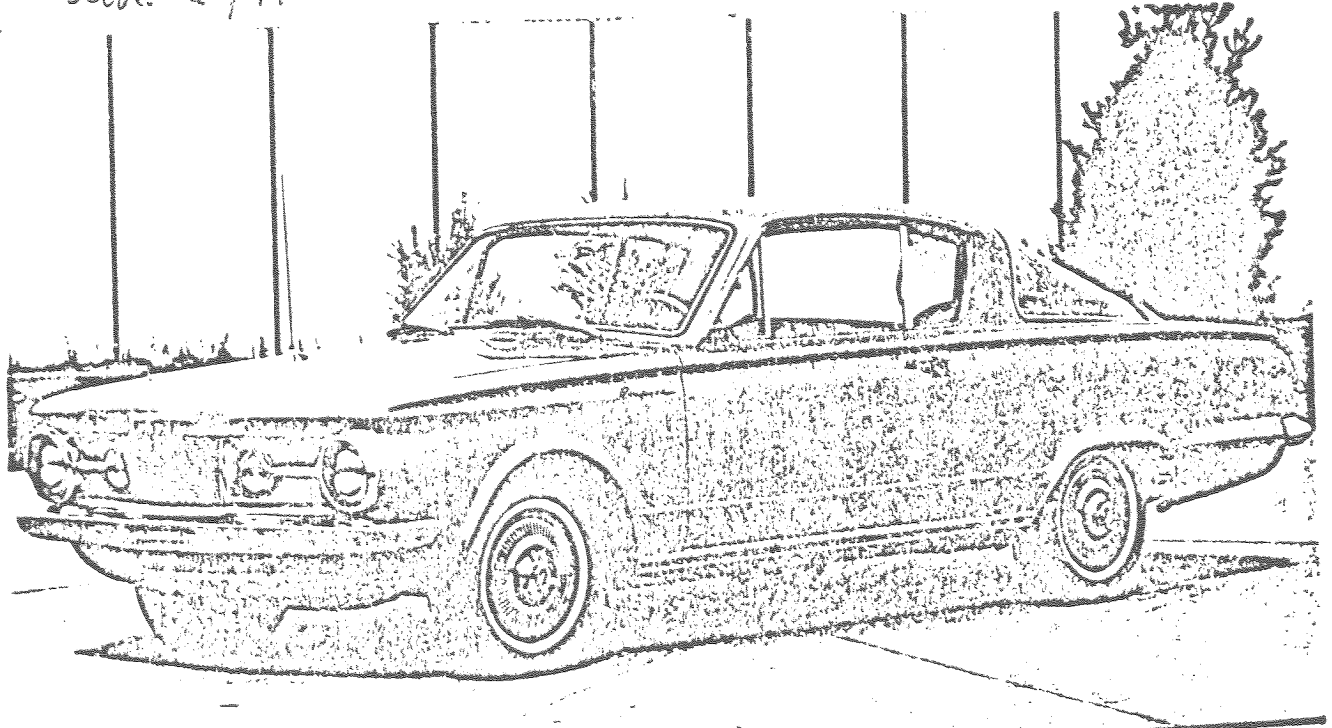
Model Barracuda Year of Manufacture 1964

Serial No. of Chassis starts with 114xxxxxxx, 134xxxxxxx, 144xxxxxxx
154xxxxxxx, 174xxxxxxx
Engine starts with V-273

Type of Bodywork 2 Dr. Sedan

Recognition is valid from 11/2/64 In Category Touring X
or Grand Touring _____

List 2/41



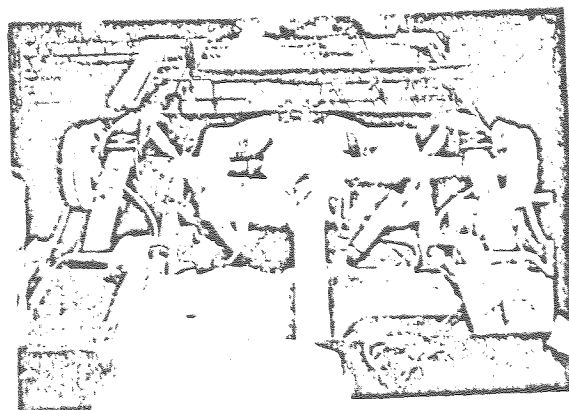
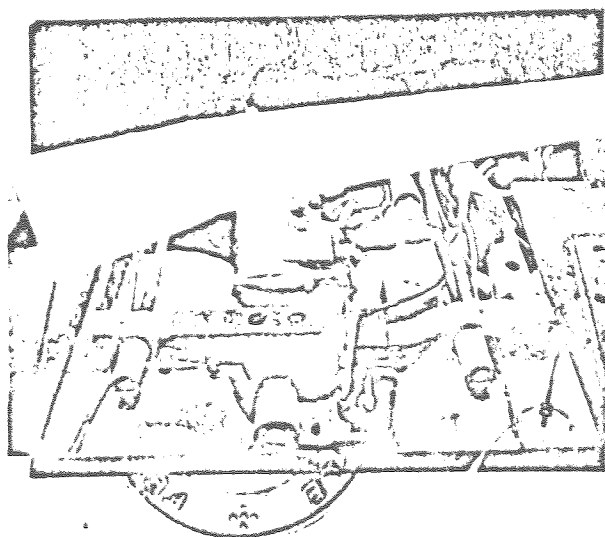
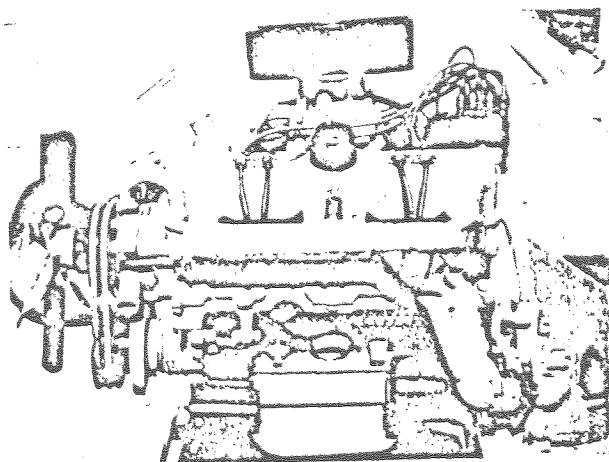
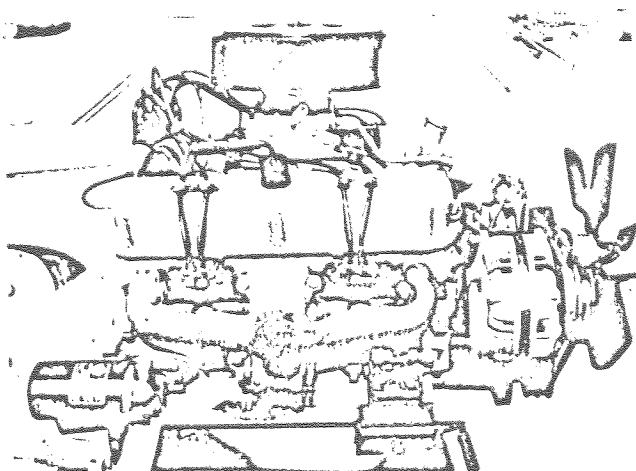
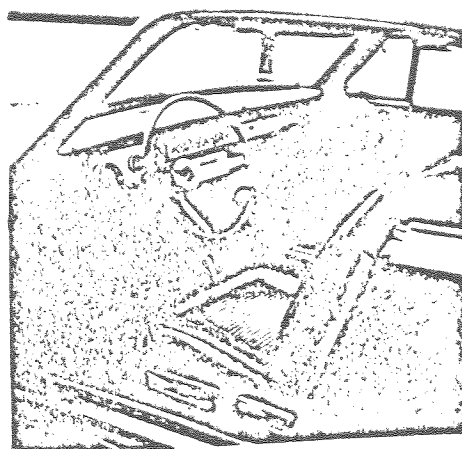
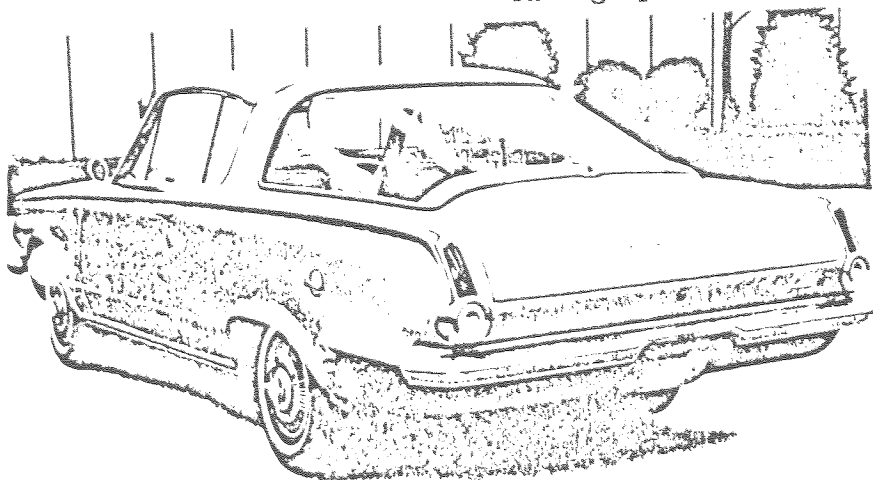
Stamp of ACCUSFIA, INC.
to be affixed here.

Signed [Signature] Sec'y

FTA Rec No 1331

General description of car: (specifying materials of Bodywork) Two door body shell of "unit construction with chassis". All major body and chassis panels are of pressed steel and are welded or bolted together. Grill and grill frame are aluminum. Other trim items are either stainless steel, aluminum or die castings.

Photographs to be affixed below:



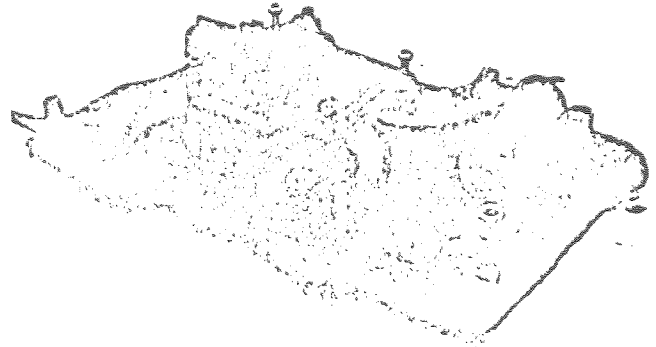
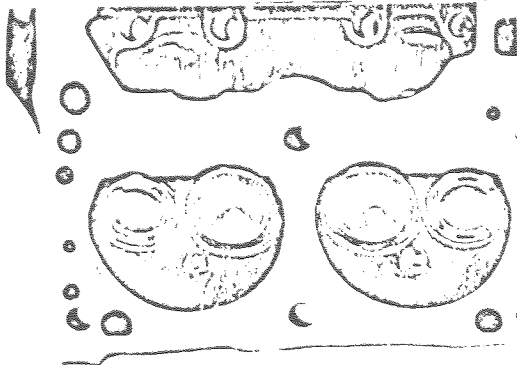
TIA Rec No 1331

ENGINE

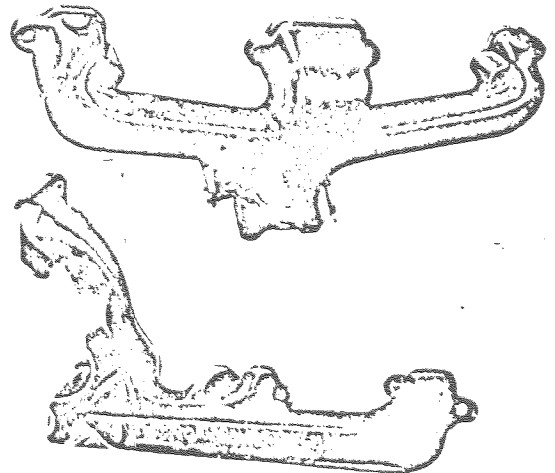
No. of cylinders * 8 in line _____
 in V X
 opposed _____
 Cycle 4 Firing order 18436572
 Capacity 4481.1 c.c. Bore 92.1 m.m. Stroke 84.1 m.m.
 Maximum rebore 1 m.m. Resultant capacity 4578.9 c.c.
 Material of cylinder block Cast Iron Material of sleeves, if fitted none
 Distance from crankshaft center line to top face of block at center line of cylinders 243.7 / 244.0 m.m.
 Material of cylinder head Cast Iron Volume of one combustion chamber 61.3 / 64.3 c.c.
 Compression ratio 10.5:1
 Material of piston aluminum No. of piston rings 3
 Distance from wrist pin center line to highest point of piston crown 48.9/49.0 m.m.
 Bearings { Crankshaft main bearings: Type Babbit on steel Dia. 63.5 m.m.
 { Connecting rod big end: Type Bimetal grid Dia. 54.1 m.m.
 Weights { Flywheel 9.08 - 9.12 kg.
 { Crankshaft 25.2 - 26.2 kg.
 { Connecting rod .70 - .76 kg.
 { Piston with rings .56 - .62 kg.
 { Wrist pin .20 - .22 kg.
 No. of valves per cylinder 2 Method of valve operation pushrod
 No. of camshafts 1 Location of camshaft cyl. block
 Type of camshaft drive Chain and Sprocket
 Diameter of valves: Inlet 45.2 m.m. Exhaust 38.1 m.m.
 Diameter of port at valve seat: Inlet 42.0 - 42.6 m.m. Exhaust 35.3 - 35.9 m.m.
 Tappet clearance for checking timing: Inlet .33 hot m.m. Exhaust .53 hot m.m.
 Valves open: Inlet 14 BTC Exhaust 56 BBC
 Valves close: Inlet 54 ABC Exhaust 12 ATC
 Maximum valve lift: Inlet 10.5 m.m. Exhaust 10.8 m.m.
 Degrees of crankshaft rotation from zero to -
 Maximum lift: Inlet 124 Exhaust 124
 3/4 Maximum lift: Inlet 74 Exhaust 74
 Valve springs: Inlet Exhaust
 Type Coil Coil
 No. per valve 1 1
 Carburetor: Type Downdraft No. fitted 1 (4BBL.)
 (up or down draft, horizontal)
 Make Carter Model AFB - 3853 S
 Flange hole diameter pri 36.6, Sec. 39.6 Choke diameter pri 27.0 m.m.
 Main jet identification No. 120-252 and 120-175 sec. 31.8

Air filter: Type Paper Element No. fitted One

Inlet manifold: 156 161
 Diameter of flange hole at carburetor 41.0 ± 2.0 m.m.
 Diameter of flange hole at port 48.0 ± 2.0 x 22.0 ± 2.0 m.m.



Exhaust manifold: 39.8 ± 2.0 x 27.9 ± 2.0 ends and
 Diameter of flange hole at port 68.6 ± 2.0 x 39.9 ± 2.0 center m.m.
 Diameter of flange hole at connection to muffler inlet pipe RT 44.7 ± 2.0 m.m.
LT 41.1 ± 2.0



ENGINE ACCESSORIES

Make of fuel pump Carter No. fitted One
 Method of operation Mechanical

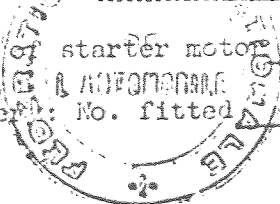
Type of ignition system Coil coil or magneto
 Make of ignition Chrysler Model 2444448
 Method of advance and retard Centrifugal and Vacuum

Make of ignition coil Essex or Prestolite Model 67-160-4 or 200759
 No. of ignition coils One Voltage 12

Make of ~~generator~~ alternator Chrysler Model 2098830
 Voltage of ~~generator~~ alternator 13.7 Maximum output 30 amps.

Make of starter motor Chrysler Model 2095150

Battery: No. fitted 1 Voltage 12 Capacity 48 amp. hour



TRANSMISSION

Make of clutch Auburn Type Dry Plate
 Diameter of clutch plate 24.1 cm No. of plates one
 Method of operating clutch Mechanical
 Make of gearbox Chrysler Type Synchro-Mesh
 No. of gearbox ratios 4 forward and 1 reverse
 Method of operating gearshift Manual
 Location of gearshift on floor
 Is overdrive fitted? No
 Method of controlling overdrive, if fitted ----

Speed	GEARBOX RATIOS		ALTERNATIVE RATIOS					
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1st.	3.09	22-33	2.66	24-31				
		17-35		17-35				
2nd.	1.92	22-33	1.91	24-31				
		25-32		23-34				
3rd.	1.40	22-33	1.39	24-31				
		29-27		29-27				
4th.	1.00	--	1.00	--				
5th.	--	22-33	2.58	24-31				
Reverse	3.00	11-22-34		11-22-34				

Type of final drive Hotchkiss
 Type of differential Semi Floating; Limited slip optional
 Final drive ratio 3.55 Alternatives 2.93, 3.23, 3.91
 No. of teeth 11-39 11-41 13-42 11-43
 Overdrive ratio, if fitted ---

WHEELS

Type Pressed Steel Disc. Weight 7.8 + 1.0 kg.
 Method of attachment Stud and Nut
 Rim diameter 330 m.m. Rim width 140 m.m.
 Tire size: Front 178 x 330 Rear 178 x 330

BRAKES

Method of operation Hydraulic
 Is servo assistance fitted? Yes - Optional
 Type of servo, if fitted Vacuum Actuated
 No. of master cylinders 1 Bore 28.6 m.m.

	Front	Rear
No. of wheel cylinders		one
Bore of wheel cylinders	m.m.	23.2 ± .2 m.m.
Inside diameter of brake drums	m.m.	228.6 ± 1.0 m.m.
No. of shoes per brake		two
Outside diameter of brake discs	254.0 m.m.	m.m.
No. of pads per brake	two	

Dimensions of brake linings per shoe or pad (if all shoes or pads in each brake are not of same dimensions, specify each)

	Front	Rear
Length	segment	
	top 95.3 m.m.	195 m.m.
	bottom 73.6 m.m.	250 m.m.
Width	50.8 m.m.	50.8 m.m.
Total area per brake	8,760 m.m. ²	22,600 m.m. ²

	Front	Rear
SUSPENSION		
Type	Independent	semi elliptic
Type of spring	Torsion Bar	laminated leaf
Is stabiliser fitted?	yes	no
Type of shock absorber	telescopic	telescopic
No. of shock absorbers	two	two

STEERING

Type of steering gear Recirculating Ball and Nut
 Turning circle of car 11.5 m., approx.
 No. of turns of steering wheel from lock to lock 4.0 ± .3

CAPACITIES AND DIMENSIONS

Fuel tank 68.2 litres
 Radiator 16.1 litres
 Overall length of car 478 cm.
 Overall width of car 178 cm.
 Overall height of car, unladen (with top up, if appropriate) 140 cm.
 Distance from floor to top of windshield:
 Highest point 104 cm.
 Lowest point 101 cm.

Width of windshield:
 Maximum width 133 cm.
 Minimum width 119 cm.

*Interior width of car 137 cm.
 No. of seats 4

Track: Front 145 cm. Rear 142 cm.
 Wheelbase 270 cm. Ground clearance 165 m.m.
 Overall weight with water, oil and spare wheel, but without fuel 1177 kgs.

*(To be contained in the immediate rear of the steering wheel, and the width quoted to be contained in vertical plane or not less than 25 cms.)

Additional information for cars fitted with two-cycle engines only:

System of cylinder scavenging _____

Type of lubrication _____

Size of inlet port:

Length measured around cylinder wall _____

m.m.

Height _____ m.m.

Area _____

m.m.²

Size of exhaust port:

Length measured around cylinder wall _____

m.m.

Height _____ m.m.

Area _____

m.m.²

Size of transfer port:

Length measured around cylinder wall _____

m.m.

Height _____ m.m.

Area _____

m.m.²

Size of piston port:

Length measured around piston _____

m.m.

Height _____ m.m.

Area _____

m.m.²

Method of pre-compression _____

Bore and stroke of pre-compression cylinder, if fitted _____

m.m.

Distance from top of cylinder block to lowest point of inlet port _____

m.m.

Distance from top of cylinder block to highest point of exhaust port _____

m.m.

Distance from top of cylinder block to highest point of transfer port _____

m.m.

Drawing of cylinder ports.

Supercharger, if fitted

Make _____

Model or Type No. _____

Type of drive _____

Ratio of drive _____

Fuel injection, if fitted

Make of pump _____

Model or Type No. _____

Make of injectors _____

Model or Type No. _____

Location of injectors _____

Optional equipment affecting preceeding information:-

1. 3 speed auto trans.

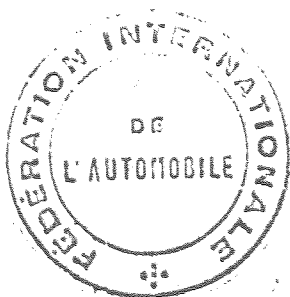
1 st. 2.45:1

2 nd. 1.45:1

3 rd. 1.00:1

Reverse 2.20:1

2. Steering - Recirculating Ball & Nut 3.5 turns L. to L. power
Optional



Valid from 1st August 1965.

Application for Variant to be attached to FIA Recognition Form No. 1331 A/

Manufacturer Chrysler-Plymouth Division, Chrysler Corporation

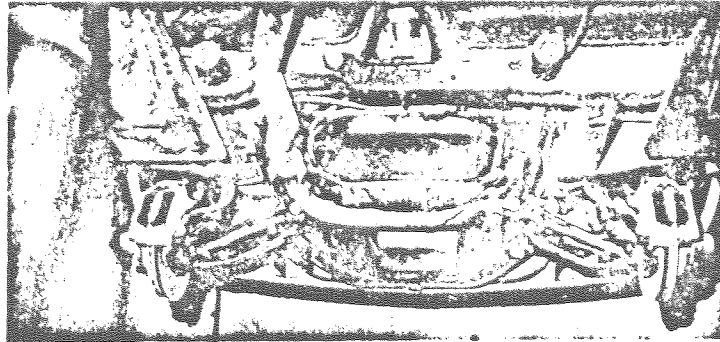
Model Plymouth Barracuda

Variant concerns the following parts:

Wheels: Pressed steel disc 355 mm dia. x 140 mm wide

Tires: 175 x 355 mm

Brakes: Kelsey-Hayes front disc. Hydraulic master cylinder 25.4 mm



Front Suspension with Kelsey-Hayes Disc Brakes

Front (disc)	
O.D. disc	283 mm
No. pads/brake	2

Linings:	
Length	122 mm
Width	47 mm

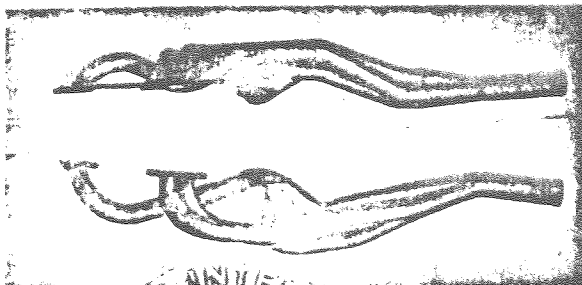
Rear (drum)	
Wheel Cylinder	23.2+ .2 mm
Brake drum I.D.	254 + 1.0 mm
Shoes/brake	2

Length:	
Primary	215 + 10 mm
Secondary	270 + 10 mm
Width:	44.5+ 2 mm

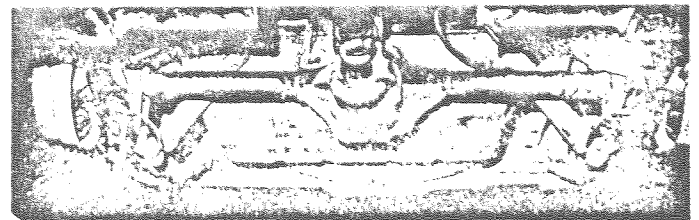
Engine: H.D. Radiator 17 liters; H.D. Oil Sump 7 liters

H.D. Clutch 241 mm Borg & Beck single dry plate

	Inlet	Exhaust
Sport Camshaft		
Valve Opens	34 BTC	70 BBDC
Valve Closes	74 ABDC	34 ATC
Max. Valve Lift	11.4 mm	11.6 mm



Exhaust manifolds of steel tubing



Suspension: Rear Suspension - additional rear axle control strut on each side.

Gas Tank: 49.2 liter trunk mounted aux. tank

AUTOMOBILE COMPETITION COMMITTEE
FOR THE UNITED STATES, F.A. INC.
107 EAST 38TH STREET
NEW YORK 16, N. Y.

Telephone: (212) LExington 2-5521



Cable Address: "ACCUSFIA-NEW YORK"

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

107 EAST 38th STREET, NEW YORK 16, N. Y.

May 25th, 1965

date

TO WHOM IT MAY CONCERN

This is to certify that the Homologation Recognition Form
for the PLYMOUTH BARRACUDA,

to which this letter is attached, is an exact and true
copy of the master form, stamped by the FIA, on file at
the office of the Automobile Competition Committee for
the United States, FIA, Inc. This car has been officially
recognized by the FIA in the TOURING category,
and assigned FIA recognition number 1331, valid
from 7/11/64.

The form contains 8 numbered pages. To be valid,
each sheet should contain the raised letter seal of the
ACCUS, FIA as it appears on this letter.

We will appreciate this form being accepted as a true,
FIA stamped recognition form by race organizers and
other interested parties.

Sincerely yours,

G. William Fleming
Executive Director