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Telephones: Eldorado 5-0900



Cable Address: "ACCUS-FIA, INC."

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AUTOMOBILE COMPETITION COMMITTEE FOR THE UNITED STATES FIA, INC.

515 MADISON AVENUE, NEW YORK 22, N. Y.

FORM OF RECOGNITION IN ACCORDANCE WITH APPENDIX J TO THE INTERNATIONAL SPORTING CODE

Manufacturer's Reference No. for application 1847-64

FIA Recognition No. 1189

Manufacturer Chevrolet

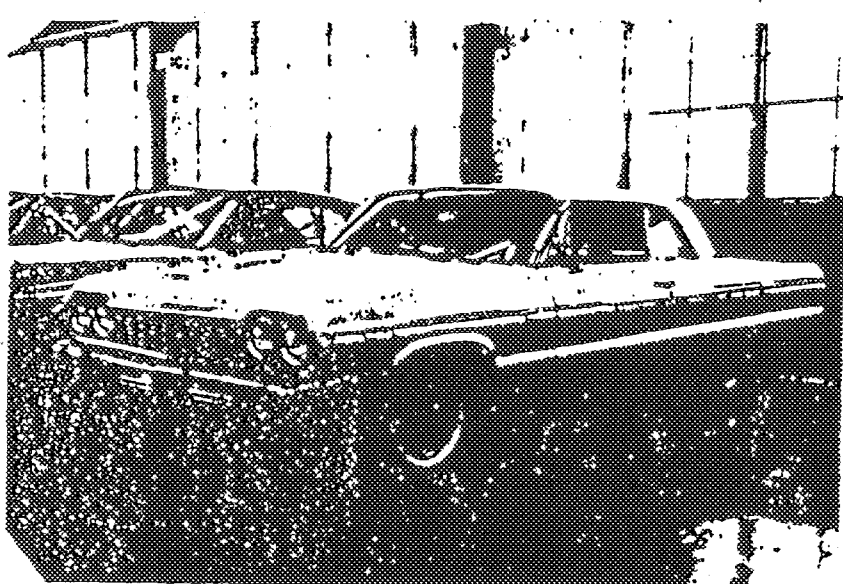
Model Impala (88) - 1847 Year of manufacture 1964

Serial No. of Chassis starts with 4-1847 C 100001 (Letter indicates Assembly Plant)

Engine starts with QA(Date)F Letters indicate engine type and Assembly Plant.

Type of bodywork Welded Steel

Recognition is valid from _____ In category Touring X
(FIA to insert date) or Grand Touring _____



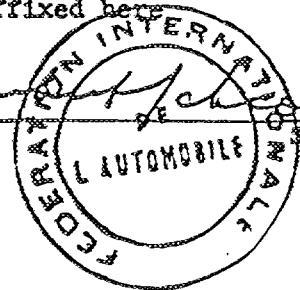
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Stamp of FIA to be affixed here



Stamp of ACCUS-FIA, INC. to be affixed here

Signed [Signature]
Sec'y

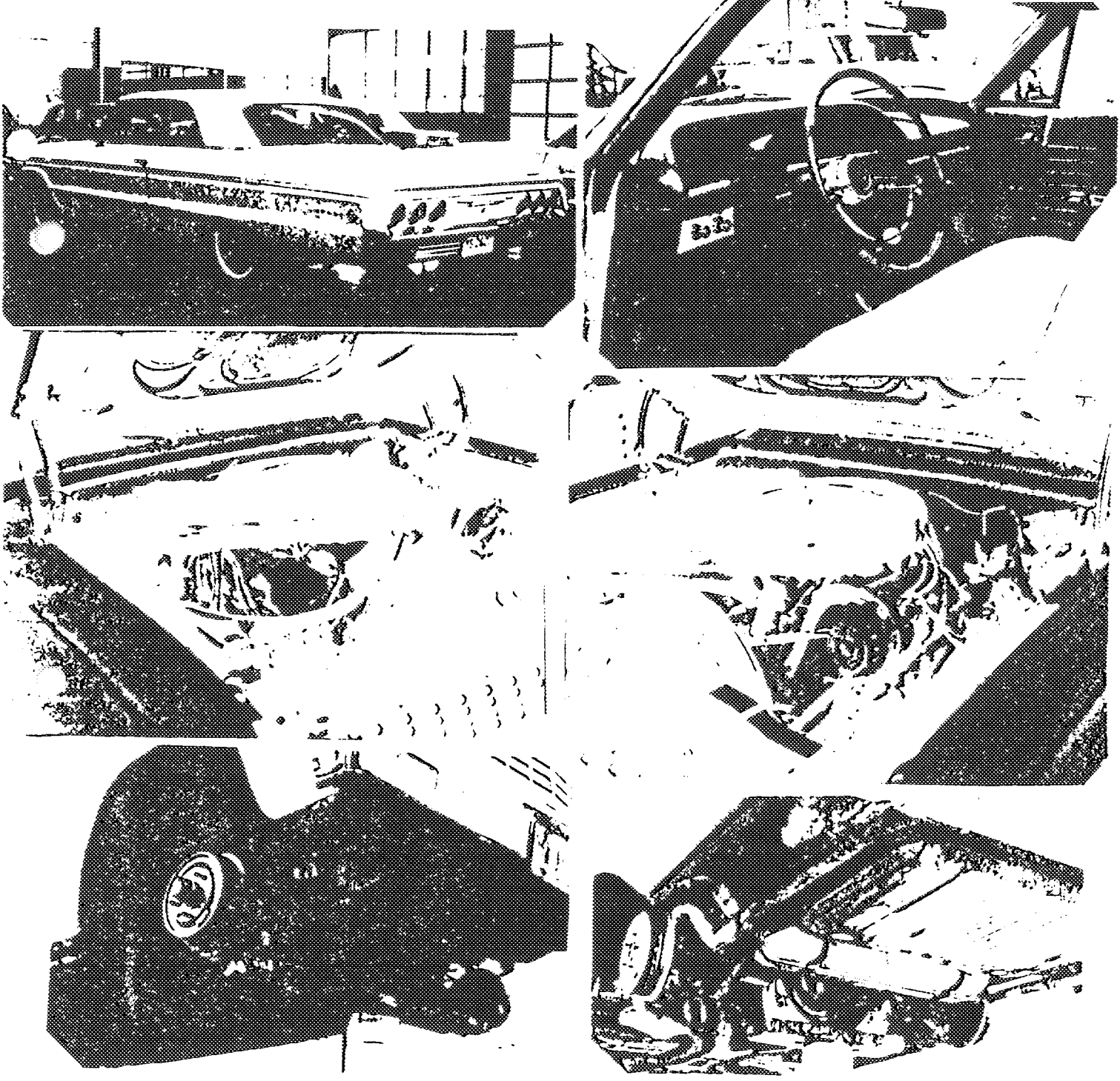


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General description of car: (specifying materials of bodywork)

Heavy gauge steel body; box section X-type steel frame; independent coil spring spherical joint front suspension; coil spring rear suspension; front mounted engine.

Photographs to be affixed below:



ENGINE

No. of cylinders 8 in line --
 in V V-8
 opposed --
 Cycle 4 Firing order 1-8-4-3-6-5-7-2
 Capacity 427 Cu. In. Bore 4.313 In. Stroke 3.63 In.
 Maximum rebore 4.3723 In. Resultant capacity 438.23 Cu. In.

Material of cylinder block Cast Iron Alloy Material of sleeves, if fitted No Sleeves
 Distance from crankshaft center line to top face of block at center line of cylinders 10.218 In.

Material of cylinder head Cast Iron Alloy Volume of one combustion chamber 10.3 cc's

Compression ratio 11.0:1 (1-Oil)
 Material of piston Aluminum No. of piston rings 3 (2-Compression)
 Distance from wrist pin center line to highest point of piston crown ---

Bearings (Crankshaft main bearings: Type Aluminum Dia. 2.50 In.
 Premium
 (Connecting rod big end: Type Aluminum Dia. 2.20 In.
 Premium

Weights (Flywheel 27.63 Lbs. kg
 (Crankshaft 66.25 Lbs. kg
 (Connecting rod 1.73 Lbs. kg
 (Piston with rings 3.05 Lbs. kg
 (Wrist pin .37 Lbs. kg

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No. of valves per cylinder 2 Method of valve operation Push Rod, Spring & Rocker Arm
 No. of camshafts 1 Location of camshafts Above crankshaft
 Type of camshaft drive Sprocket gear driven by chain from crankshaft.

Diameter of valves: Inlet 2.195 In. Exhaust 1.725 In.
 Diameter of port at valve seat: Inlet 2.258 In. Exhaust 1.790 In.
 Tappet clearance for checking timing: Inlet .018 Exhaust .030
 Valves open: Inlet 49° 13' 20" Exhaust 95° 20'
 Valves close: Inlet 93° 13' 20" Exhaust 45° 20'
 Maximum valve lift: Inlet .5068 Exhaust .5185

Degrees of crankshaft rotation from zero to -
 Maximum lift: Inlet 112° ATC Exhaust 115° BTC
 3/4 Maximum lift: Inlet 49° ATC Exhaust 178° BTC

Valve springs: Inlet Exhaust
 Type Coil Steel Coil Steel
 No. per valve 2 2

Carburetor: Type Aluminum - 4 BBL. Downdraft No. fitted 2
 (up or down draft, horizontal)

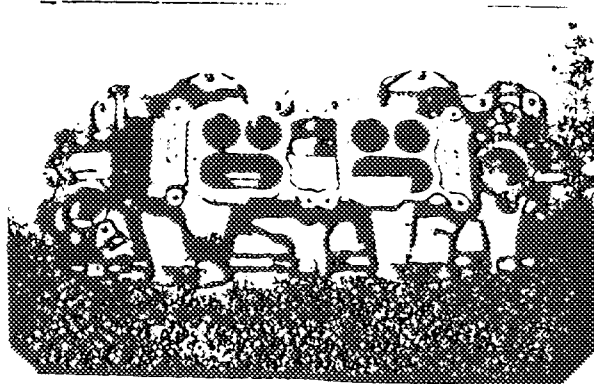
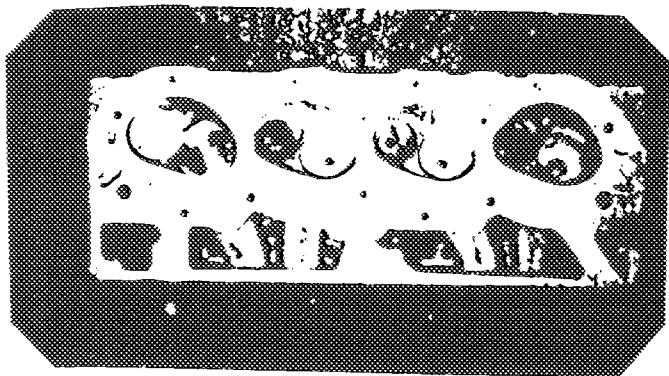
Make Carter Model #3815403 (Frt.) #3815405 (Rr.)
 Flange hole diameter * Choke diameter ---
 Main jet identification No. Prim. 120-162 (.1015) Secondary 120-176 (.0635)

* Primary 1.5625 Secondary 1.6875 - 3 -

Air filter: Type Resin impregnated paper element No. fitted One

Inlet manifold:

Diameter of flange hole at carburetor Primary 1.67 In., Secondary 1.72 In. ~~SEE~~
Diameter of flange hole at port Rectangular shaped 2.40 In. x 1.25 In. ~~SEE~~

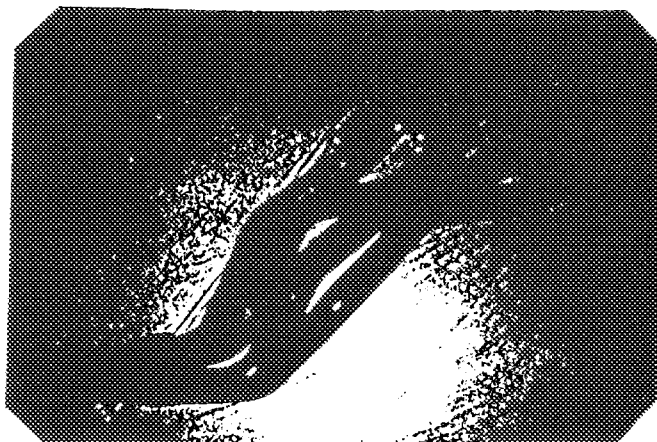
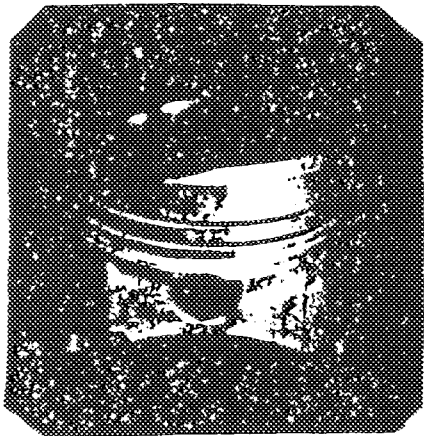


Exhaust manifold:

End Ports 2.04 In. x 1.56 In.

Diameter of flange hole at port Center Ports 1.78 In. x 1.72 In. ~~SEE~~

Diameter of flange hole at connection to muffler inlet pipe 2.96 In. ~~SEE~~



ENGINE ACCESSORIES

Make of fuel pump AC No. fitted One
Method of operation Mechanical (Drive Off Camshaft)

Type of ignition system Coil coil ~~XXXXXXXXXX~~

Make of ~~ignition~~ Distributor Delco-Remy Model #1111023

Method of advance and retard Centrifugal - Vacuum

Make of ignition coil Delco-Remy Model #1115083

No. of ignition coils One Voltage 12 Volt

Make of generator Delco-Remy Model #1100668

Voltage of generator 12 Volt Maximum output 37 amps.

Make of starter motor Delco-Remy Model #1107286

Battery: No. fitted One voltage 12 Volts Capacity 70 amp hour

@ 20 Hr. Rate

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TRANSMISSION

Make of clutch Chevrolet Type Single Dry Disk, Centrifugal
 Diameter of clutch plate 10.4 x 6.5 No. of plates One
 Method of operating clutch Lever Action
 Make of gearbox Chevrolet Type Four Speed
 No. of gearbox ratios Four
 Method of operating gearshift Lever thru Linkage
 Location of gearshift 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	No. of Teeth
1st.	2.56	36	2.20	36			
2nd.	1.91	30	1.64	30			
3rd.	1.48	27	1.28	27			
4th.	1.00	24	1.00	26			
5th.							
Reverse	2.64	35	2.27	35			

Type of final drive Four link type; upper control arm, lateral control bar and two lower control arms.
 Type of differential Four pinion with dual disk clutches
 Final drive ratio 5.57:1 Alternatives See last page
 No. of teeth 39-7
 Overdrive ratio, if fitted --

WHEELS

Type Short spoke spider Weight 15.7 Lbs.
 Method of attachment 5 Hex Nuts
 Rim diameter 14 In. Rim width 5.0 In.
 Tire size: Front 8.00 - 14 Rear 8.00 - 14

BRAKES

Method of operation Foot Pedal (4-Wheel Hydraulic)
 Is servo assistance fitted? No
 Type of servo, if fitted --
 No. of hydraulic master cylinders One Bore 1.00 In.

	Front	Rear
No. of wheel cylinders	One Per Wheel	One Per Wheel
Bore of wheel cylinders	<u>1.1875</u> xxx	<u>1.00</u> xxx
Inside diameter of brake drums	<u>11.0</u> xxx	<u>11.0</u> xxx
No. of shoes per brake	<u>Two</u>	<u>Two</u>
Outside diameter of brake discs	<u>--</u> xxx	<u>--</u> xxx
No. of pads per brake	<u>18</u>	<u>18</u>

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	Primary <u>1.64</u> xxx	<u>2.0</u> xxx
	Secondary <u>1.64</u> xxx	<u>2.0</u> xxx
Width	Primary <u>1.37</u> xxx	<u>1.0</u> xxx
	Secondary <u>1.37</u>	<u>1.0</u>
Total area per brake	<u>xxx²</u>	<u>xxx²</u>

SUSPENSION

	Front	Rear
Type	Independent combining long short control arms, spherical joints, \emptyset	Four Link - Upper control arm lateral control bar, lower control arms &
Type of spring	<u>Coil</u>	<u>Coil</u>
Is stabilizer fitted?	<u>Yes</u>	<u>Yes</u>
Type of shock absorber	<u>Double Acting</u>	<u>Double Acting</u>
No. of shock absorbers	<u>One Per Wheel</u>	<u>One Per Wheel</u>

STEERING

Type of steering gear	<u>Semi-Reversible Recirculating Ball</u>
Turning circle of car	<u>Outside front wall to wall 44.1</u> ft, approx.
No. of turns of steering wheel from lock to lock	<u>3.80</u>

CAPACITIES AND DIMENSIONS

Fuel tank	<u>20 Gal.</u> xxxx	Sump	<u>8 Qts. with Filter</u> xxxx
Radiator	<u>22 Qts. w/Heater</u> xxxx	Overall length of car	<u>cm</u>
Overall height of car, unladen (with top up, if appropriate)	<u>54.9 In.</u> xx	Overall width of car	<u>77.0 In.</u> xx
Distance from floor to top of windshield:			
Highest point	<u>41.7 In.</u> xx	Lowest point	<u>27.6 In.</u> xx

Width of windshield:	
Maximum width	<u>60.1 In.</u> xx
Minimum width	<u>Same</u> xx

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*Interior width of car 63.3 Approx. ~~xx~~
No. of seats 2

Track: Front 61.3 In. ~~xx~~ Rear 60.3 In. ~~xx~~

Wheelbase 119.0 In. ~~cm~~ Ground clearance 3.8 In. ~~xx~~

Overall weight with water, oil and spare wheel, but without fuel 3021 Lbs. ~~xxx~~

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

\emptyset Coil Springs.

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 _____ mm
Height _____ mm Area _____ mm²

Size of exhaust port:

Length measured around cylinder wall _____ mm
Height _____ mm Area _____ mm²

Size of transfer port:

Length measured around cylinder wall _____ mm
Height _____ mm Area _____ mm²

Size of piston port:

Length measured around piston _____ mm
Height _____ mm Area _____ mm²

Method of pre-compression _____

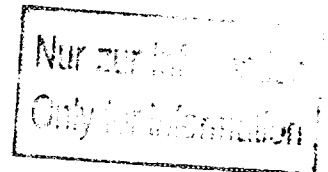
Bore and stroke of pre-compression cylinder, if fitted _____ mm

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

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

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

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:-

16.0:1 Strg. Gear

7 Qt. Oil Pan

Tires: ~~7.00 x 14~~
~~7.50 x 14~~
~~8.00 x 14~~
~~8.50 x 14~~
~~7.10 x 15~~
~~7.60 x 15~~

tires not required.

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RATIO	NO. OF TEETH	
3.08:1	R-37	P-12
3.36:1	R-37	P-11
3.55:1	R-32	P-9
3.70:1	R-37	P-10
4.11:1	R-37	P-9
4.56:1	R-41	P-9
4.88:1		



CHEVROLET MOTOR DIVISION General Motors Corporation

General Motors Building, Detroit, Michigan 48202

March 18, 1964

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Mr. George C. Rand, Secretary
Automobile Competition Committee
for the United States FIA, Inc.
515 Madison Avenue
New York 22, New York

Dear Mr. Rand: Reference: Manufacturers Reference #1847-64

Will you kindly supplement the data submitted in reference Homologation Form for the 1964 Chevrolet received by you on December 31, 1963, with the following data to complete and clarify specifications:

GEAR BOX RATIOS

<u>Speed</u>	<u>Ratio</u>	<u>No. of Teeth</u>	<u>Ratio</u>	<u>No. of Teeth</u>
1st	2.56	$\frac{24}{29} \times \frac{36}{17}$	2.20	$\frac{26}{27} \times \frac{36}{17}$
2nd	1.91	$\frac{24}{29} \times \frac{30}{19}$	1.64	$\frac{26}{27} \times \frac{30}{19}$
3rd	1.48	$\frac{24}{29} \times \frac{27}{22}$	1.28	$\frac{26}{27} \times \frac{27}{22}$
4th	1.00	DIRECT	1.00	DIRECT
Reverse	2.64	$\frac{24}{29} \times \frac{18}{17} \times \frac{35}{17}$	2.27	$\frac{26}{27} \times \frac{18}{17} \times \frac{35}{17}$

OPTIONAL AXLES

Ratio	3.08:1	3.36:1	3.70:1	4.11:1	4.56:1	4.88:1
No. of Teeth	37-12	37-11	37-10	37-9	41-9	39-8

* * *
* * *
* * *

CHEVROLET

Mr. George C. Rand, Secretary

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March 18, 1964

Manufacturers Reference #1847-64

WHEEL SIZES

Rim Diameter

Rim Width

14.0 In.
14.0 In.
15.5 In.
15.0 In.
15.0 In.
15.0 In.

5.0 In.
6.0 In.
3.0 In.
3.5 In.
6.0 In.
7.0 In.

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VEHICLE CATEGORY:

TOURING X

GRAND TOURING

The classification requested on the original form is confirmed.

Name of Company or Division Chevrolet Motor Division

By WFBurwell
Title Chief Special Products Engineer

By WRWinkler
Title Manager, Technical Projects
Public Relations