



FEDERATION INTERNATIONALE DE L'AUTOMOBILE

CHEVROLET - CORVETTE

MARQUE ET MODELE

2/65

VALIDITE HOMOLOGATION

187

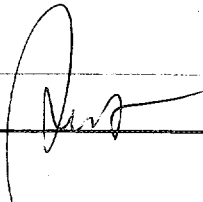
FICHE NR.

GT/6500

GROUPE / CLASSE

| EXTENSIONS | DEBUT VALIDITE | DESCRIPTION | NOTES |
|------------|----------------|-------------|-------|
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Autres homologations du modèle

Vérifiée le 18/03/96 par  visée ce jour le _____ par _____

Name of Manufacturer Chevrolet Motor Division

Name of Model Corvette (19467)

Manufacturer's Reference No. of Application 19467-65A

We certify that in excess of 100 cars identical with the basic specification stated in this application were completed on December 24, 1964. Production commenced on August 24, 1964. Cars conforming to this specification may be identified by Chassis Nos. beginning with 194675100001. Engine Nos. IF (Indicates optional 425 HP Engine).

Name of Company or Division Chevrolet Motor Division

By *Z. Adams - Quindoc*
Title Staff Engineer, Corvette Engine
and Chassis

By *W. Amacker*
Title Manager, Technical Projects
Public Relations

[Signature]
AUTOMOBILE COMPETITION COMMITTEE
FOR THE UNITED STATES, FIA, INC.
107 EAST 38TH STREET
NEW YORK 16, N. Y.
DEC 29 1964

Telephone: (212) LExington 2-5521



Cable Address: "ACCUSFIA-NEW YORK"

*photos in
replacer*

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

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

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

Manufacturer's Reference No. for application 19467-65A

FIA Recognition No. 188 187

Manufacturer Chevrolet

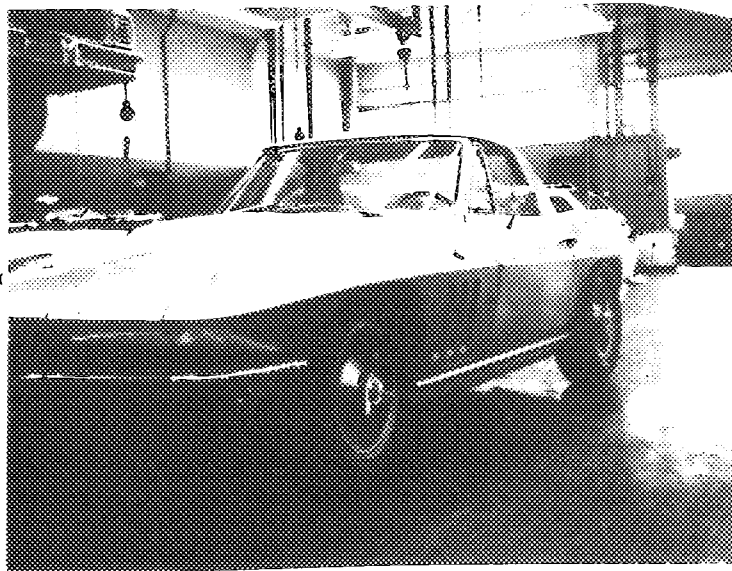
Model Corvette Year of manufacture 1965

Serial No. of Chassis starts with 194675100001

Engine starts with Prefix IF (Opt. 425 HP Engine)

Type of bodywork Fiberglass Reinforced Plastic Body

Recognition is valid from 1st Feb. 1965 In category Touring
(FIA to insert date) or Grand Touring X



(Photograph taken from _____ ft. to _____ ft.)

Signed [Signature]
[Signature]
[Signature]

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

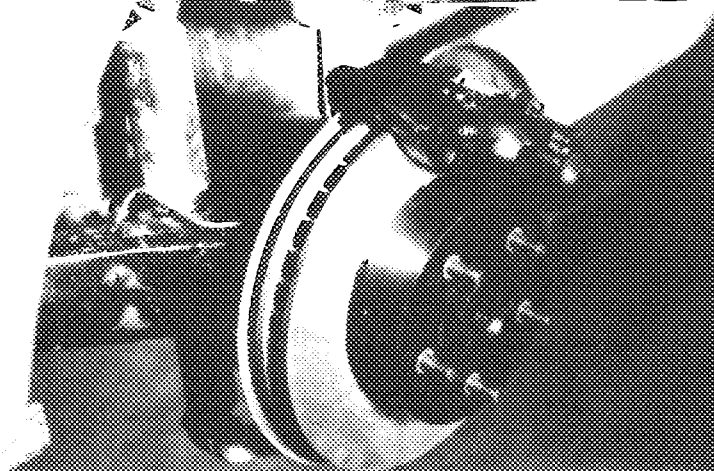
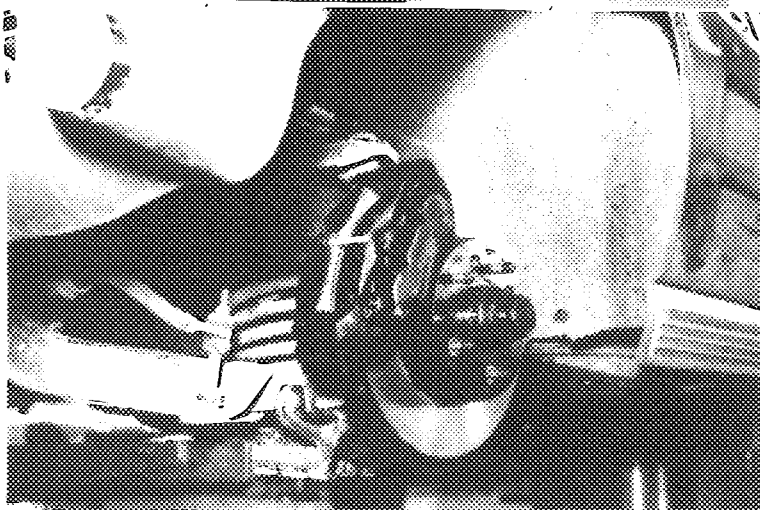
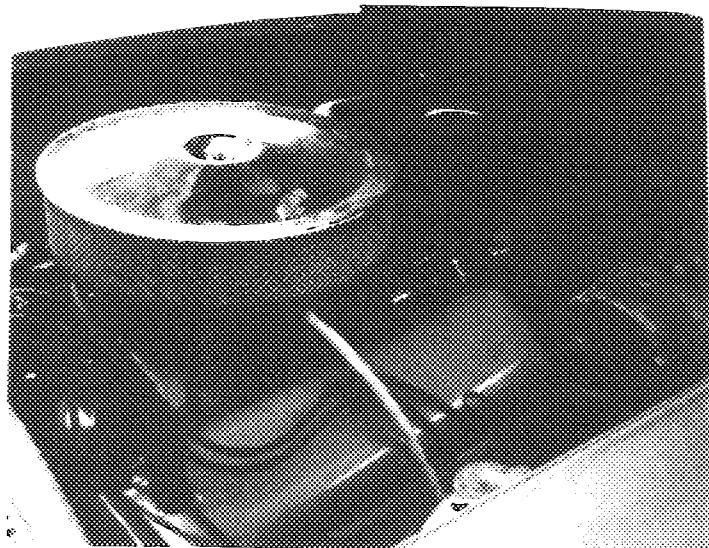
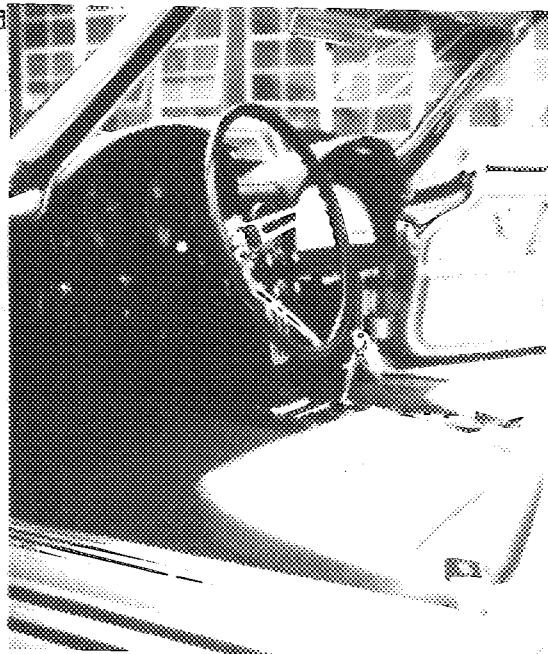
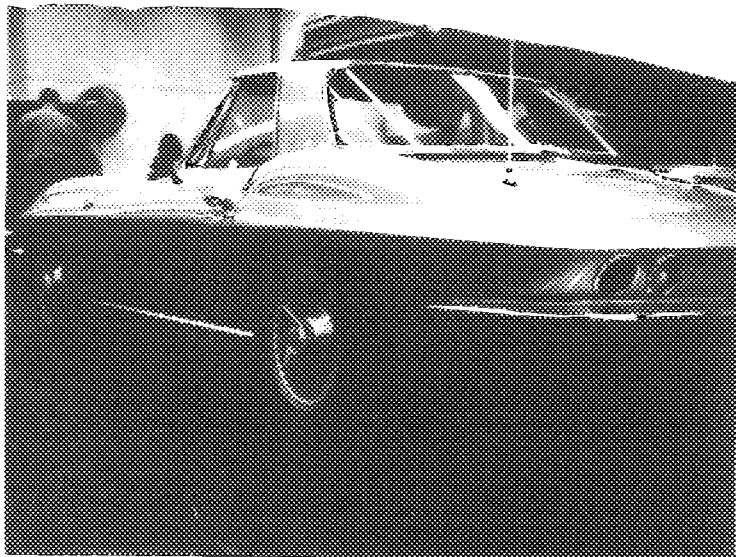
Stamp of FIA to be
affixed here

Signed [Signature]
Sec'y

General description of car: (specifying materials of bodywork)

Two passenger: Structural steel members integrated with fiberglass reinforced plastic body. Box-girder frame with five crossmembers welded to side rails. Independent rear suspension with transverse multi-leaf spring. Spherical joint front suspension. Fixed differential and one piece drop shaft. Front mounted engine.

Photographs to be affixed



ENGINE

No. of cylinders 8 in line in V 90° OHV V-8
opposed

Cycle 4 Firing order 1-8-4-3-6-5-7-2

Capacity 396 cu. in. ~~98~~ Bore 4.09 in. mm Stroke 3.76 in. ~~100~~

Maximum rebore 4.251 in. Resultant capacity 427 cu. in. ~~98~~

Material of cylinder block Cast Alloy Iron Material of sleeves, if fitted None

Distance from crankshaft center line to top face of block at center line of cylinders 9.800 in. ~~100~~

Material of cylinder head Cast Alloy Iron Volume of one combustion chamber 4.95 in.³ (Nominal) ~~98~~

Compression ratio 11.0:1.0

Material of piston Aluminum No. of piston rings 3 (2 Comp., 1 oil)

Distance from wrist pin center line to highest point of piston crown 2.127 in. ~~100~~

Bearings (Crankshaft main bearings: Type Premium Alum. 1-4: 2.7506 in. 5: Steel backed babbit Dia. 5: 2.7517 in. ~~100~~
(Premium Aluminum) (Connecting rod big end: Type Removable Dia. 2.3249 in. ~~100~~)

Weights (Flywheel 16.8 Lb. ~~kg~~
(Crankshaft 68.0 Lb. ~~kg~~
(Connecting rod 1.74 Lb. ~~kg~~
(Piston with rings ~~kg~~
(Wrist pin .33 Lb. ~~kg~~

No. of valves per cylinder 2 Method of valve operation Push Rod

No. of camshafts 1 Location of camshafts In block

Type of camshaft drive Chain/Gears

Diameter of valves: Inlet 2.190 in. ~~100~~ Exhaust 1.720 in. ~~100~~

Diameter of port at valve seat: Inlet 2.090 in. ~~100~~ Exhaust 1.586 in. ~~100~~

Tappet clearance for checking timing: Inlet .012 in. ~~100~~ Exhaust .018 in. ~~100~~

Valves open: Inlet 55° (BTC) Exhaust 103° (BBC)

Valves close: Inlet 103° (ABC) Exhaust 55° (ATC)

Maximum valve lift: Inlet .500 in. ~~100~~ Exhaust .500 in. ~~100~~

Degrees of crankshaft rotation from zero to -
Maximum lift: Inlet 163° Exhaust 163°

3/4 Maximum lift: Inlet 105° Exhaust 105°

Valve springs: Inlet Exhaust

Type Coil Coil

No. per valve 2 2

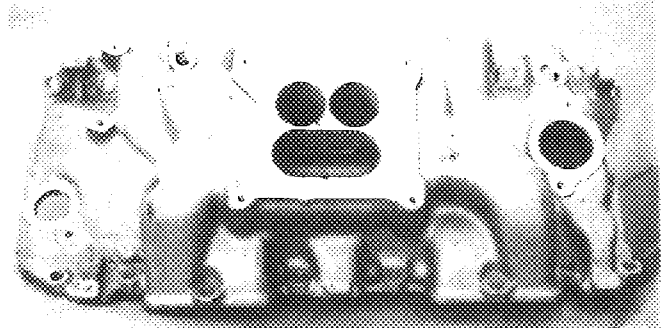
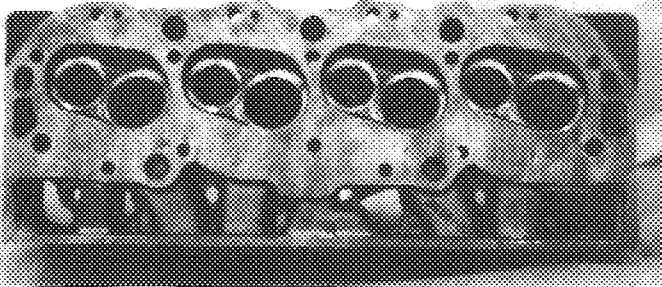
Carburetor: Type Downdraft (4-Bbl.) No. fitted 1
(up or down draft, horizontal)

Make Holley Model 3868826

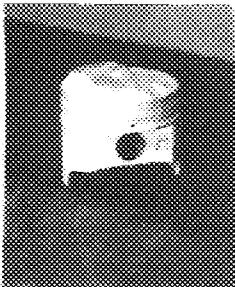
Flange hole diameter 5.00 in. ~~100~~ Choke diameter mm

Main jet identification No. _____

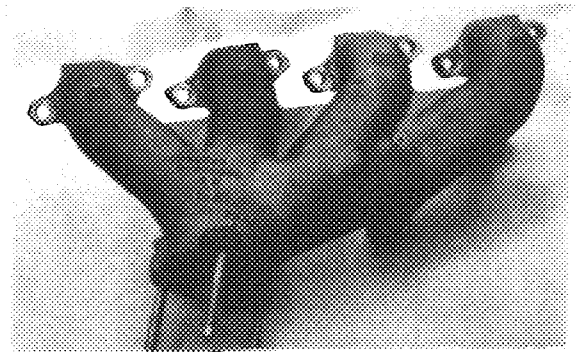
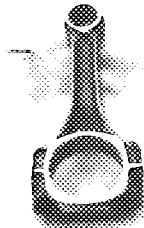
Air filter: Type Oil-wetted paper element No. fitted 1
 Inlet manifold:
 Diameter of flange hole at carburetor 2 1.72 in. Dia., 1 (Elongated) ~~xxxx~~ 1.72x3.53 in.
 Diameter of flange hole at port 1.60 x 2.30 in. ~~xxxx~~



Exhaust manifold:
 Diameter of flange hole at port 2 1.88 x 1.76 in., 2 1.84 x 1.76 in. ~~xxxx~~
 Diameter of flange hole at connection to muffler inlet pipe 2.46 in. ~~xxxx~~ mm



f pist
affix



ENGINE ACCESSORIES

Make of fuel pump AC No. fitted 1
 Method of operation Mechanical (Eccentric drive off camshaft)
 Type of ignition system Coil coil or magnet
 Make of ignition Delco-Remy Model 1111074
 Method of advance and retard Centrifugal Advance, Vacuum Retard (Automatic)
 Make of ignition coil Delco-Remy Model 1115210
 No. of ignition coils 1 Voltage 12 V
 Make of generator Delco-Remy Model 1100696 (Delcotron)
 Voltage of generator 12 V Maximum output 42 amps.
 Make of starter motor Delco-Remy Model 1107352
 Battery: No. fitted 1 voltage 12 V Capacity 61 amp hour

TRANSMISSION

Make of clutch Chevrolet Type Single Dry Disc, Centrifugal
 Diameter of clutch plate 11.0 x 6.5 in. (OD x ID) No. of plates 1
 Method of operating clutch Foot Pedal
 Make of gearbox Chevrolet Type 4-speed
 No. of gearbox ratios 4 Forward Speeds
 Method of operating gearshift Manual-Lever thru linkage
 Location of gearshift Floor (in console)
 Is overdrive fitted? No
 Method of controlling overdrive, if fitted --

| Speed | GEARBOX RATIOS | | ALTERNATIVE RATIOS | | | | No. of Teeth |
|---------|----------------|---|--------------------|--------------|-------|--------------|--------------|
| | Ratio | No. of Teeth | Ratio | No. of Teeth | Ratio | No. of Teeth | |
| 1st. | 2.20 | $\frac{27}{26} \times \frac{36}{17}$ | | | | | |
| 2nd. | 1.64 | $\frac{27}{26} \times \frac{30}{19}$ | | | | | |
| 3rd. | 1.28 | $\frac{27}{26} \times \frac{27}{22}$ | | | | | |
| 4th. | 1.00 | | | | | | |
| 5th. | | | | | | | |
| Reverse | 2.27 | $\frac{27}{26} \times \frac{18}{17} \times \frac{35}{17}$ | | | | | |

Type of final drive Hypoid Ring Gear and Pinion
 Type of differential Limited Slip
 Final drive ratio 3.36:1 Alternatives See Options
 No. of teeth 37, 11
 Overdrive ratio, if fitted --

WHEELS

Type 15 x 7 Steel and 15 x 6L Aluminum Weight _____ kg
 Method of attachment Aluminum - Wing Nut; Steel - Bolt On
 Rim diameter 15.0 In. Rim width 6.0 In. - Alum. 7.0 In. - Steel
 Tire size: Front 9.10 x 15 (Code Designation) Rear 9-15 (Code Designation)

BRAKES

Method of operation Foot Pedal (Caliper Disc, 4-wheel Hydraulic, Power Assist)
 Is servo assistance fitted? Yes, optionally
 Type of servo, if fitted Vacuum
 No. of hydraulic master cylinders 2 Bore 1.00 in.

| | Front | Rear |
|---------------------------------|--------------------------|--------------------------|
| No. of wheel cylinders | 4 per wheel | 4 per wheel |
| Bore of wheel cylinders | 1.875 in. xxx | 1.375 in. xxx |
| Inside diameter of brake drums | -- mm | -- mm |
| No. of shoes per brake | 2 | 2 |
| Outside diameter of brake discs | 11.75 in. xxx | 11.75 in. xxx |
| No. of pads per brake | -- | -- |

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 | 5.96 in. xxx | 5.96 in. xxx |
| Width | 2.21 in. xxx | 2.21 in. xxx |
| Total area per brake | 20.85 in. ² xxx² | 20.85 in. ² xxx² |

| | Front | Rear |
|------------------------|------------------------------|---|
| SUSPENSION | | |
| Type | <u>Independent, SLA</u> | <u>Full independent, Fixed differential</u> |
| Type of spring | <u>Coil</u> | <u>Multi-Leaf, transverse</u> |
| Is stabilizer fitted? | <u>Yes</u> | <u>Yes</u> |
| Type of shock absorber | <u>Direct, Double Acting</u> | <u>Direct, Double Acting</u> |
| No. of shock absorbers | <u>1 per wheel</u> | <u>1 per wheel</u> |

STEERING

| | | |
|--|---|--|
| Type of steering gear | <u>Semi-reversible, Recirculating ball</u> | |
| Turning circle of car | <u>41.6 wall to wall; 39.9 curb to curb</u> | xxx xxxx xxx ft. Approx. |
| No. of turns of steering wheel from lock to lock | <u>2.92</u> | |

CAPACITIES AND DIMENSIONS

| | | | | | |
|--|------------------|------------------|----------------------|-----------------------------|------------------|
| Fuel tank | <u>20 Gal.</u> | xxxxx | Sump | <u>6 qts. (Less filter)</u> | xxxxx |
| Radiator | <u>4 qts.</u> | xxxxx | | | |
| Overall length of car | <u>175.1 in.</u> | xx | Overall width of car | <u>69.6 in.</u> | xxx |
| Overall height of car, unladen (with top up, if appropriate) | <u>52.0 in.</u> | xxxx | | | |
| Distance from floor to top of windshield: | | | | | |
| Highest point | <u>40.6 in.</u> | xxx | Lowest point | <u>40.2 in.</u> | xxx |

Width of windshield:

| | | | | | |
|---------------|-----------------|----------------|---------------|-----------------|----------------|
| Maximum width | <u>47.9 in.</u> | xxx | Minimum width | <u>42.2 in.</u> | xxx |
|---------------|-----------------|----------------|---------------|-----------------|----------------|

| | | |
|------------------------|-----------------|----------------|
| *Interior width of car | <u>50.9 in.</u> | xxx |
| No. of seats | <u>2</u> | |

| | | | | | |
|--------------|-----------------|----------------|------------------|-----------------|----------------|
| Track: Front | <u>56.8 in.</u> | xxx | Rear | <u>57.6 in.</u> | xxx |
| Wheelbase | <u>98.0 in.</u> | xxx | Ground clearance | <u>5.0 in.</u> | xxx |

Overall weight with water, oil and spare wheel, but without fuel 2700 lb. ~~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.)

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 _____

replace

Optional equipment affecting preceding information:-

- 1 - Limited slip differential carrier equipment (Ratios: 2.70, 2.90, 3.08, 3.55, 3.70, 4.11, 4.56)
- 2 - Side mounted service exhaust system
- 3 - 36.5 Gal. and 42 Gal. fuel tank
- 4 - Special front and rear suspension equipment
- 5 - Heavy duty brake equipment
- 6 - Heavy duty radiator
- 7 - Exhaust headers
- 8 - Fender relief template
- 9 - Remote oil and axle cooler equipment
- 10 - Transistor ignition equipment
- 11 - Plenum intake manifold
- 12 - Rear mounted battery equipment
- 13 - Special hi-lift camshaft package
- 14 - Heavy duty 4-speed transmission