



FEDERATION INTERNATIONALE DE L'AUTOMOBILE

CHEVROLET - CORVETTE

MARQUE ET MODELE

1/64

VALIDITE HOMOLOGATION

150

FICHE NR.

GT / 5500

GROUPE / CLASSE

EXTENSIONS	DEBUT VALIDITE	DESCRIPTION	NOTES

Autres homologations du modèle

Vérifiée le 18/03/96 par [Signature] visée ce jour le _____ par _____

[Handwritten initials]

Name of Manufacturer Chevrolet Motor Division

Name of Model Corvette (837)

Manufacturer's Reference No. of Application 837-64

We certify that in excess of 100 cars identical with the basic specification stated in this application were completed on September 10, 1963. Production commenced on September 3, 1963. Cars conforming to this specification may be identified by Chassis Nos. 40837S100001. Engine Nos. RF (Indicates 375 HP Fuel Injection Engine).

Name of Company or Division Chevrolet Motor Division

By *Z. Ams-Dunbar*
Title Staff Engineer, Corvette Engine and Chassis

By *AR Mackenzie*
Title Manager, Technical Projects Public Relations

*George Coland
Secy.*



Telephone: Eldorado 5-0900



Cable Address: "ACCUSFIA-NEW YORK"

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 837-64

FIA Recognition No. 150

Manufacturer Chevrolet

Model Corvette Year of manufacture 1964

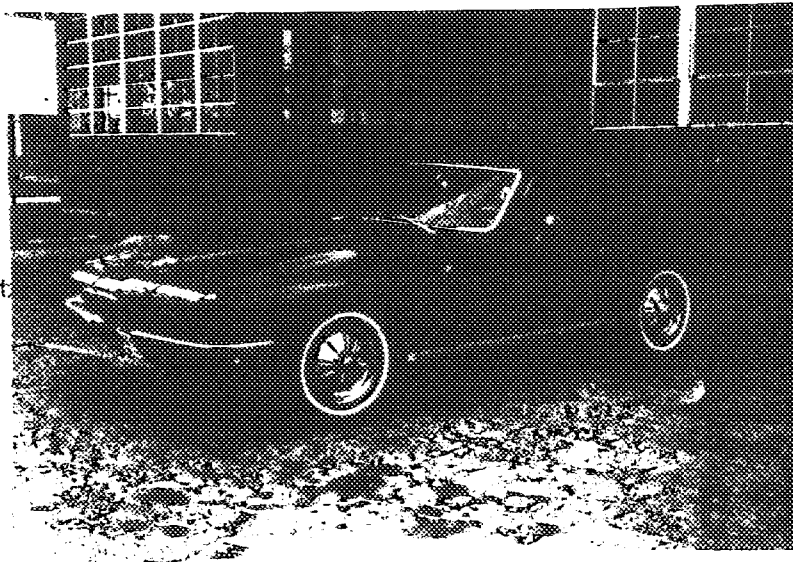
Serial No. of Chassis starts with 40837S10001

Engine starts with RF (indicates 375 HP fuel injection engine)

Type of bodywork Fiber glass reinforced plastic body

Recognition is valid from 13 JANV 1964 In category Touring
(FIA to insert date) or Grand Touring X

(Photograph of)



WHEELS INCORRECT - SEE PAGE 9

Stamp of FIA to be affixed here

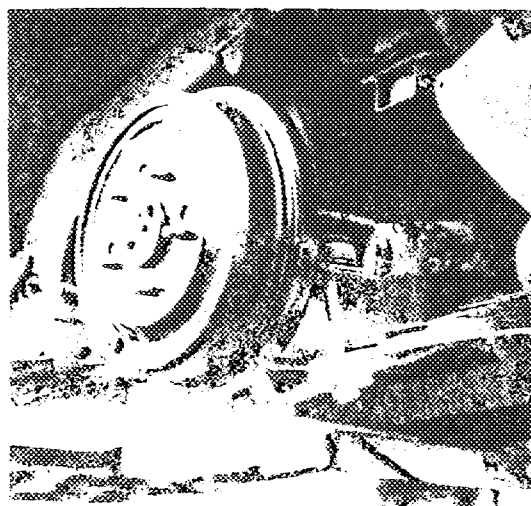
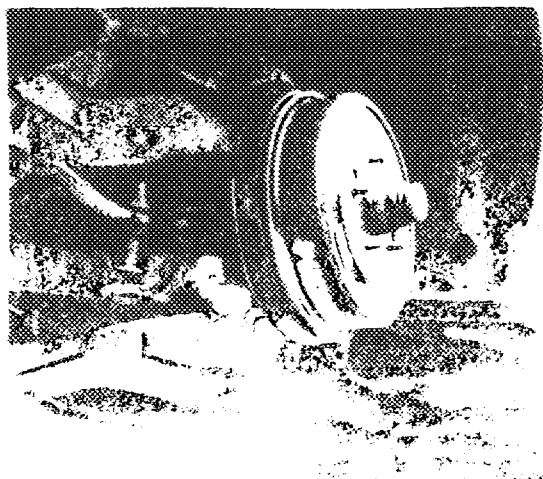
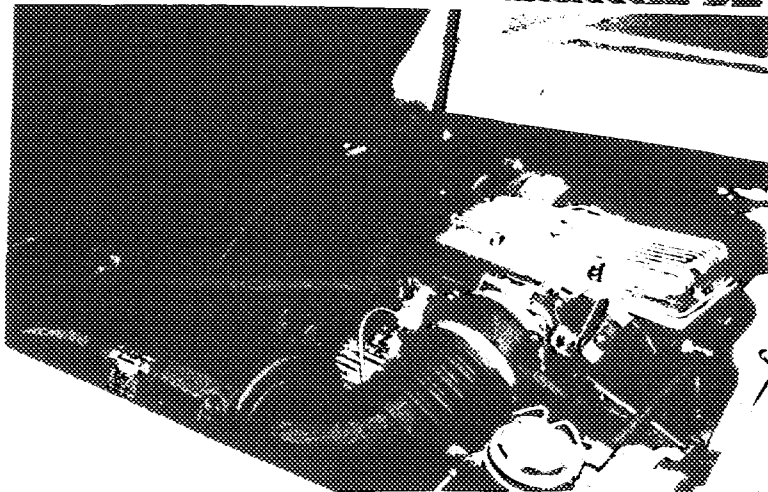
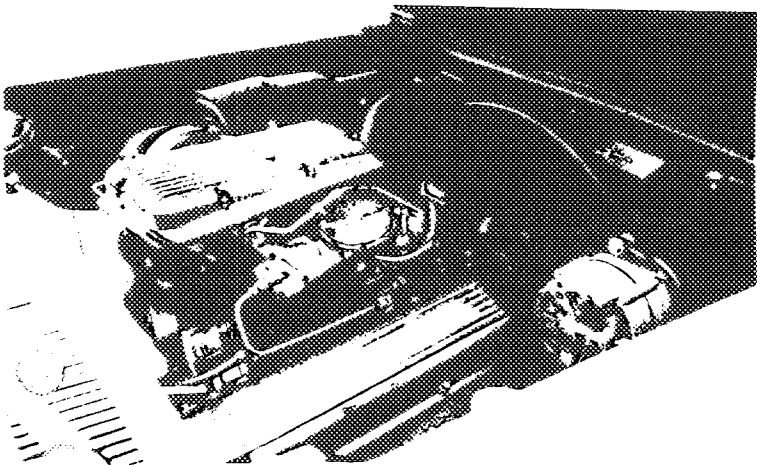
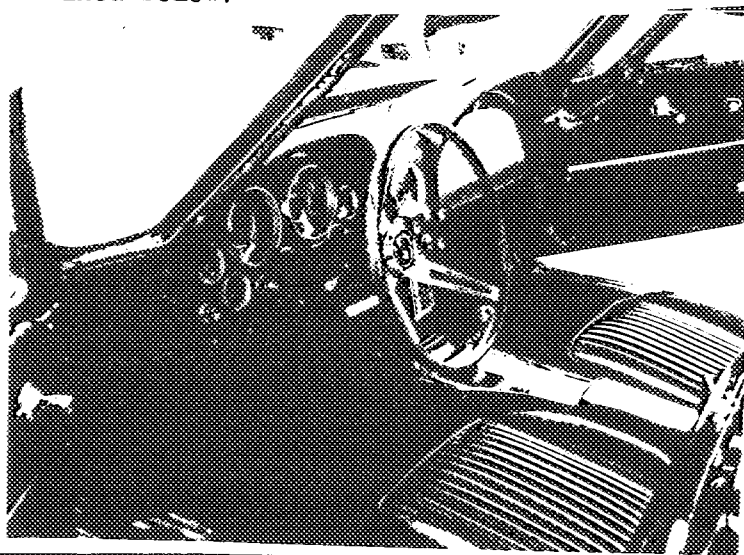
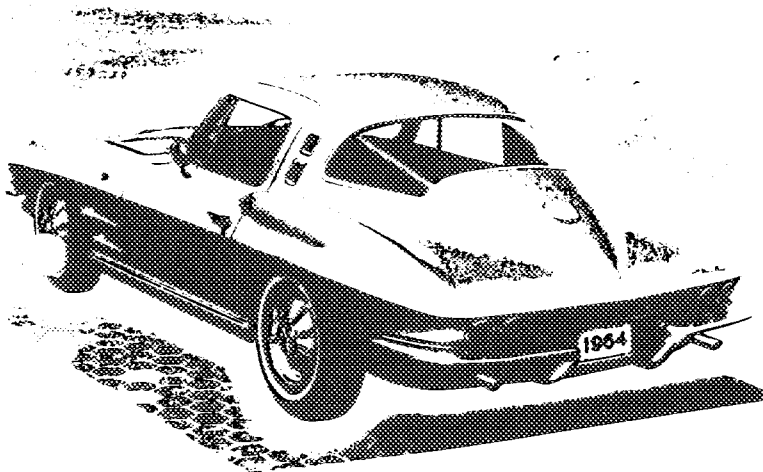
Stamp of ACCUS-FIA, INC. to be affixed here

Signed George Coland
Sec'y

General description of car: (specifying materials of bodywork)

Two passenger sport coupe; structural steel members integrated with fiber glass reinforced plastic body. Box-girder frame with five cross members welded to side rails. Independent rear suspension with transverse multi-leaf spring. Spherical joint front suspension. Fixed differential and one piece prop shaft. Front mounted engine.

Photographs to be affixed below:



BRAKES INCORRECT - SEE PAGE 9

ENGINE

No. of cylinders 8 ~~in line~~ in V 90° V-8

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

Capacity 327 in.³ ~~xx~~ Bore 4.00 in. ~~xxx~~ Stroke 3.25 in. ~~xxx~~

Maximum rebore 4.030 in. Resultant capacity 331.48 in.³ ~~xx~~

Material of cylinder block Cast iron alloy Material of sleeves, if fitted ---

Distance from crankshaft center line to top face of block at center line of cylinders 9.025 in. ~~xxx~~

Material of cylinder head Cast iron alloy (high chrome) Volume of one combustion chamber 3.980 in.³ ~~xxx~~

Compression ratio 11.0:1

Material of piston Cast aluminum alloy No. of piston rings 3(2 comp., 1-oil)

Distance from wrist pin center line to highest point of piston crown 1.795 in. ~~xxx~~

Bearings { Premium aluminum
(Crankshaft main bearings: Type (removable) Dia. 2.3020 in. ~~xxx~~
(Connecting rod big end: Type (removable) Dia. 2.0024 in. ~~xxx~~

Weights (Flywheel 28.50 lb ~~kg~~
(Crankshaft 54.00 lb ~~kg~~
(Connecting rod .913 lb ~~kg~~ (assembled with cap, bolts & nuts - 1.378 lb)
(Piston with rings 1.392 lb ~~kg~~
(Wrist pin .310 lb ~~kg~~

No. of valves per cylinder 2 Method of valve operation Push rod, spring & rocker arm

No. of camshafts 1 Location of camshafts in block above crankshaft

Type of camshaft drive Sprocket gear driven by chain from crankshaft

Diameter of valves: Inlet 2.020 ~~mm~~ Exhaust 1.600 in. ~~mm~~

Diameter of port at valve seat: Inlet 1.898 in. ~~mm~~ Exhaust 1.424 in. ~~mm~~

Tappet clearance for checking timing: Inlet .030 in. ~~mm~~ Exhaust .030 in. ~~mm~~

Valves open: Inlet 60°50' BTC Exhaust 108°50' BBC

Valves close: Inlet 105°23' ABC Exhaust 57°23' ATC

Maximum valve lift: Inlet .48504 ~~mm~~ Exhaust .48504 ~~mm~~

Degrees of crankshaft rotation from zero to -
Maximum lift: Inlet 170°50' Exhaust 662°50'

3/4 Maximum lift: Inlet 108°44' Exhaust 600°44'

Valve springs: Inlet Exhaust

Type Coil Coil

No. per valve 2 2

Carburetor: Type Ramjet fuel injection No. fitted 1
(up or down draft, horizontal)

Make Rochester Products Model 7017380

Flange hole diameter mm Choke diameter mm

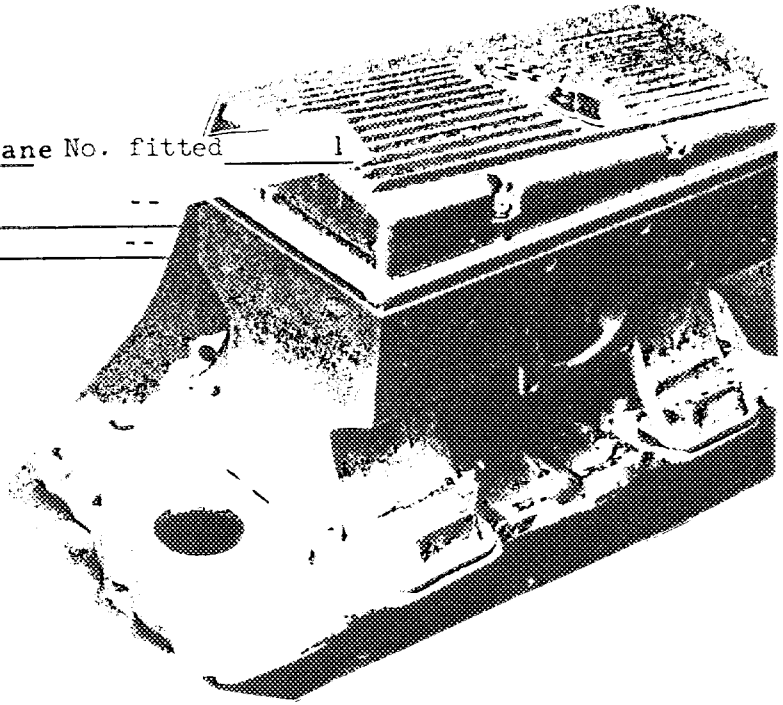
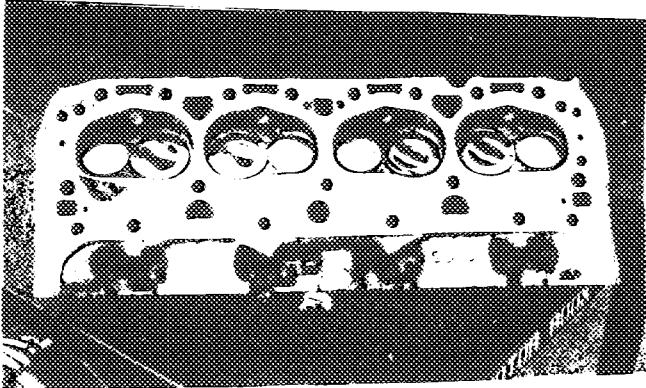
Main jet identification No. _____

Air filter: Type Oil-wetted, Polyurethane No. fitted 1

Inlet manifold:

Diameter of flange hole at carburetor --

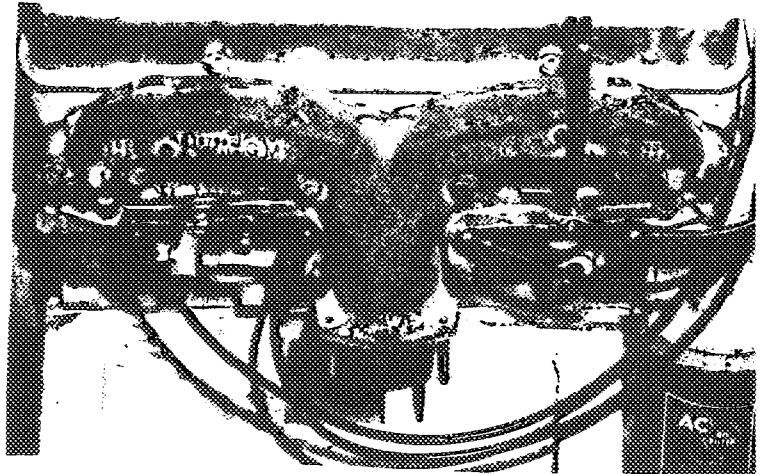
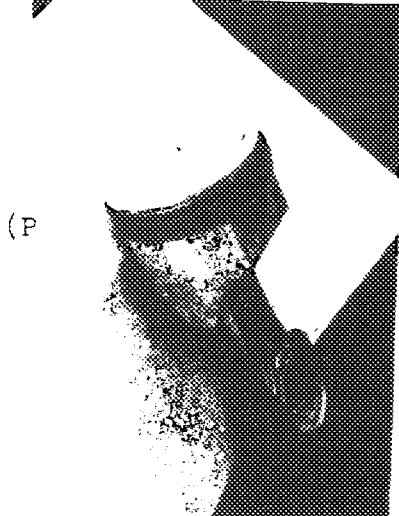
Diameter of flange hole at port --



Exhaust manifold:

Diameter of flange hole at port Width - 1.32 in.; height - 1.34 in. BCK

Diameter of flange hole at connection to muffler inlet pipe 2.531 in. BCK



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 magneto
Make of ignition Delco-Remy Model Distributor - 1111063
Method of advance and retard Automatic centrifugal and vacuum

Make of ignition coil Delco-Remy Model 1115091
No. of ignition coils 1 Voltage 12

Make of generator Delco-Remy Model 1100668
Voltage of generator 12 Maximum output 37 amps.

Make of starter motor Delco-Remy Model 1107320

Battery: No. fitted 1 voltage 12 Capacity 61 amp hour @ 20 hr.

* * *
* * *
* * *

TRANSMISSION

Make of clutch Chevrolet Type Single dry disk, centrifugal
 Diameter of clutch plate 10.0 x 6.50 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
 Method of operating gearshift Manual - lever through linkage
 Location of gearshift Floor mounted 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.	2.20:1	36	2.56:1	36			
2nd.	1.64:1	30	1.91:1	30			
3rd.	1.28:1	27	1.48:1	27			
4th.	1:1	26	1:1	24			
5th.	--		--				
Reverse	2.27:1	35	2.64:1	35			

Type of final drive Hotchkiss (drive through torque control arms), one prop. shaft
 Type of differential Positraction (semi-floating, with overhung pin, gear & dual disk cl)
 Final drive ratio 5.57:1 Alternatives _____
 No. of teeth 39, 7
 Overdrive ratio, if fitted --

WHEELS

Type Aluminum 15 x 6L Weight 28.0 lb kg
 Method of attachment Wing nut
 Rim diameter 15.0 in. mm Rim width 6.0 in. mm
 Tire size: Front 7.10/7.60 x 15 Rear Up to 8.00/8.20 x 15

BRAKES

Method of operation Foot pedal (duo-servo 4-wheel hydraulic, power assisted)
 Is servo assistance fitted? Yes
 Type of servo, if fitted Vacuum
 No. of hydraulic master cylinders 2 Bore 1.0 in. mm

	Front	Rear
No. of wheel cylinders	<u>1 per wheel</u>	<u>1 per wheel</u>
Bore of wheel cylinders	<u>1.1875 in. MM</u>	<u>1.00 in. MM</u>
Inside diameter of brake drums	<u>11.2 in. MM</u>	<u>11.2 in. MM</u>
No. of shoes per brake	<u>2</u>	<u>2</u>
Outside diameter of brake discs	<u>--- MM</u>	<u>-- MM</u>
No. of pads per brake	<u>Primary 6, secondary 12</u>	<u>Primary 6, secondary 10</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	<u>1.64 in. per pad MM</u>	<u>2.00 in. per pad MM</u>
Width	<u>1.37 in. per pad MM</u>	<u>1.00 in. per pad MM</u>
Total area per brake	<u>40.6 in.² MM</u>	<u>32.0 in.² MM</u>

SUSPENSION

	Front	Rear
Type	<u>Independent, SLA</u>	<u>Full independent, fixed differential</u>
Type of spring	<u>Coil</u>	<u>1 multi-leaf, transverse</u>
Is stabilizer fitted?	<u>Yes</u>	<u>No</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 Semi-reversible, recirculating ball
 Turning circle of car 41.6 wall to wall; 39.9 curb to curb ~~MM~~ approx., feet
 No. of turns of steering wheel from lock to lock 2.92

CAPACITIES AND DIMENSIONS

Fuel tank <u>36.5 gal.</u> MM	Sump <u>6 qts with filter</u> MM
Radiator <u>19.0 qts. (with heater)</u> MM	
Overall length of car <u>175.3 in.</u> MM	Overall width of car <u>69.6 in.</u> MM
Overall height of car, unladen (with top up, if appropriate) <u>52.0 in.</u> MM	
Distance from floor to top of windshield:	
Highest point <u>40.6 in.</u> MM	Lowest point <u>40.2 in.</u> MM

Width of windshield:

Maximum width <u>47.9 in.</u> MM	Minimum width <u>42.2 in.</u> MM
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*Interior width of car 52.4 in. ~~MM~~
 No. of seats 2

Track: Front <u>56.3 in.</u> MM	Rear <u>57.0 in.</u> MM
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Wheelbase <u>98.0 in.</u> MM	Ground clearance <u>5.0 in.</u> MM
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Overall weight with water, oil and spare wheel, but without fuel 2700 lb. ~~MM~~

*(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 _____

Optional equipment affecting preceding information:-

1. Positraction axles - 3.08:1, 3.36:1, 3.55:1, 3.70:1, 4.11:1, 4.56:1
2. 20 gallon fuel tank
3. 6.70 x 15 tires
4. 15 x 5.5K wheels
5. Heavy-duty suspension (front and rear springs and shock absorbers, and front stabilizer bar)
6. Heavy-duty brakes (with provisions for cooling, power, divided output master cylinder, metallic linings)
7. Off-road exhaust equipment
8. Transistor ignition equipment

Magnetic pulse distributor - 1111064

Ignition coil, 12V - 1115176

Generator, 12V, 42 AMP - 1100669

