AUTOMOBILE COMPETITION
FOR THE UNITED STATES
330 Vanderbilt Motor P
HAUPPAUGE, L. I., NEW YORK 11787

AUTOMOBILE COMPETITION COMMITTEE
FOR THE UNITED STATES, FIA, INC.
330 Vanderbilt Motor Parkway
HAUPPAUGE, L. I., NEW YORK 11787

TEL: ~~ELdorado 5-0900~~ BLE: 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 _____ F.I.A. Recognition No. 1353

Manufacturer Chevrolet

Model Corvair Corsa 10737 Year of Manufacture 1965 & 1966

Serial No. of Chassis starts with 107375W100001 (Letter indicates assembly plant)

Engine starts with T0708 RL (1965) T 0730 RA (1966)

Type of Bodywork Welded heavy gauge steel

Recognition is valid from NOV 2 0 1964 In Category Touring X (1966 Group II)
or Grand Touring _____

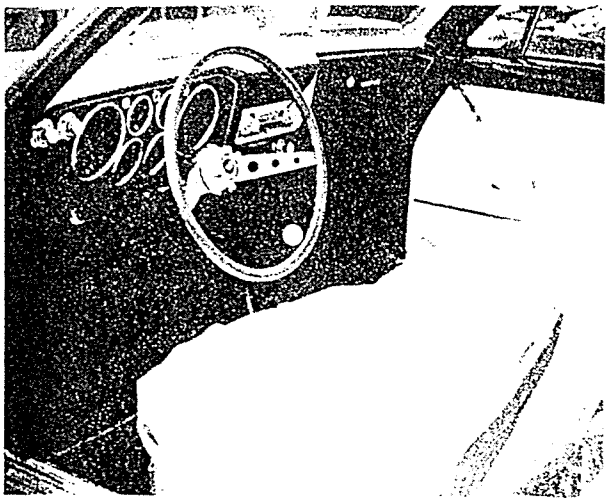
Stamp of F.I.A. to be affixed here.

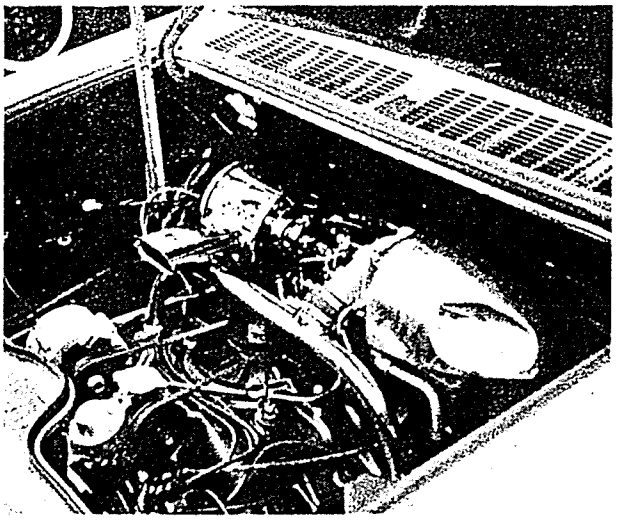
Stamp of ACCUSFIA, INC.
to be affixed here.

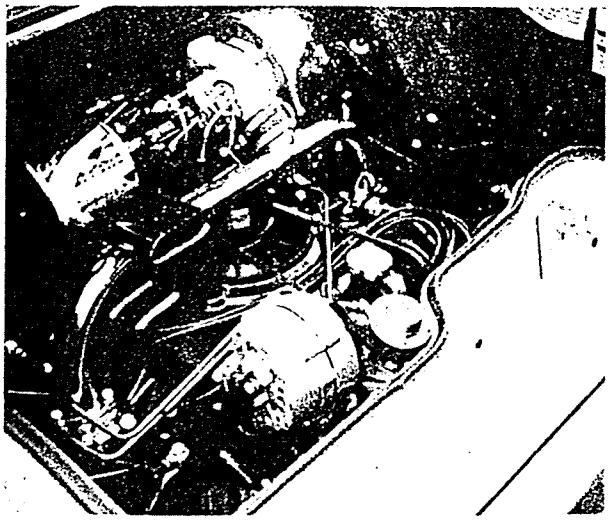
Signed _____
OCT 28 1964

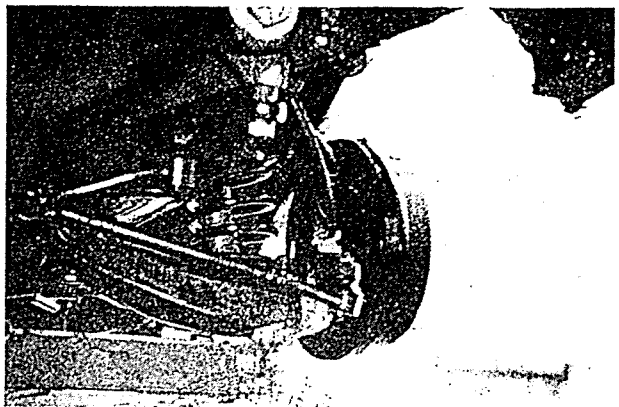
General description of car: (specifying materials of bodywork)

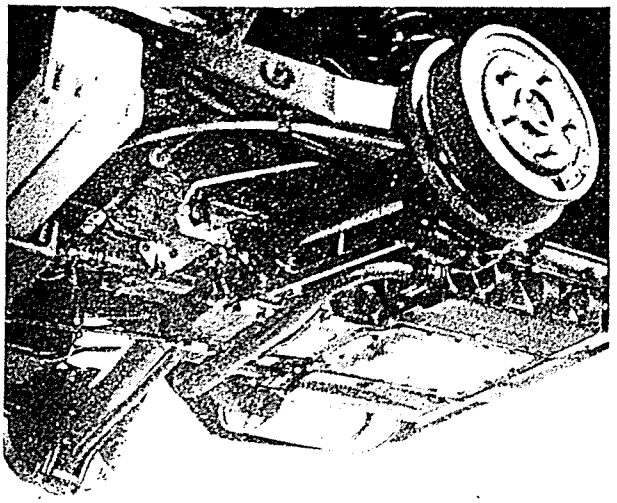
Fully unitized welded heavy gauge steel body integral with frame, coil spring, spherical joint independent front suspension independent rear suspension with coil springs. Rear mounted engine and transaxle drive.











ENGINE

No. of cylinders 6 — in line ____ / in V ____ / opposed X

Cycle 4 — Firing order 1-4-5-2-3-6

Capacity 164 Cu. In. — Bore 3.438 In. — Stroke 2.94 In.

Maximum rebore 3.467 In. — Resultant capacity 169.56 Cu. In.

Material of cylinder block Cast Aluminum — Material of sleeves, if fitted Cast Iron

Distance from crankshaft center line to top face of block at center line of cylinders ____

Material of cylinder head Aluminum — Volume of one combustion chamber 10.6 c.c.

Compression ratio 8.25:1

Material of piston Aluminum Alloy — No. of piston rings 3 2-Comp. 1-Oil

Distance from wrist pin center line to highest point of piston crown 1.58 In.

Bearings
- Crankshaft main bearings: Type Premium Aluminum Dia. 2.1008 In.
- Connecting rod big end: Type Premium Aluminum Dia. 1.8018 In.

Weights
- Flywheel 14.0 Lbs.
- Crankshaft 27.50 Lbs.
- Connecting rod .995 Lbs.
- Piston with rings 1.042 Lbs.
- Wrist pin .226 Lbs.

No. of valves per cylinder 2 — Method of valve operation Push rod spring and Rocker Arm

No. of camshafts One — Location of camshafts In Cyl. Case below crankshaft

Type of camshaft drive Gear

Diameter of valves:	Inlet 1.345 In.	Exhaust 1.245 In.
Diameter of port at valve seat:	Inlet 1.233 In.	Exhaust 1.091 In.
Tappet clearance for checking timing:	Inlet Zero	Exhaust Zero
Valves open:	Inlet 82° BTC	Exhaust 110° BBC
Valves close:	Inlet 110° ABC	Exhaust 70° ATC
Maximum valve lift:	Inlet .3741 In. m.m.	Exhaust .3741 In.

Degrees of crankshaft rotation from zero to -

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

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

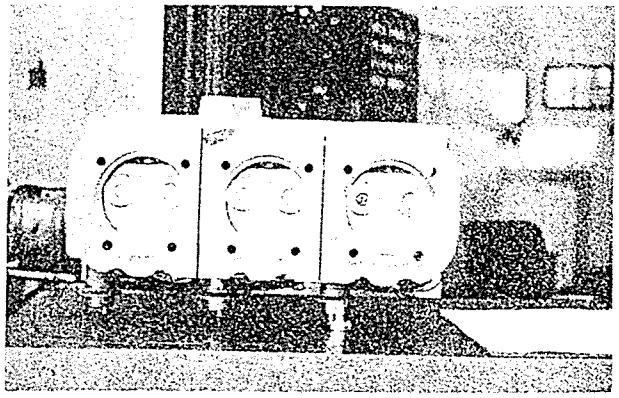
Carburetor: Type Horizontal Side Draft (up or down draft, horizontal) — No. fitted One

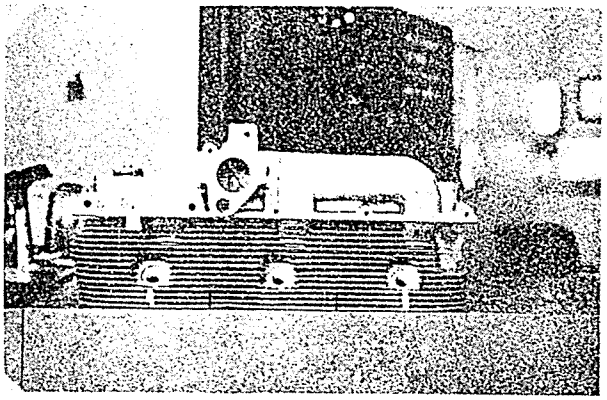
Make Carter — Model 3873818 YH4020-S

Flange hole diameter 1.605 In. — Choke diameter 2.0625 In.

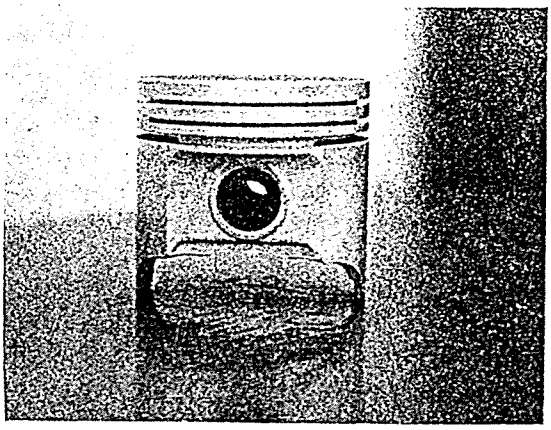
Main jet identification No. 120-257

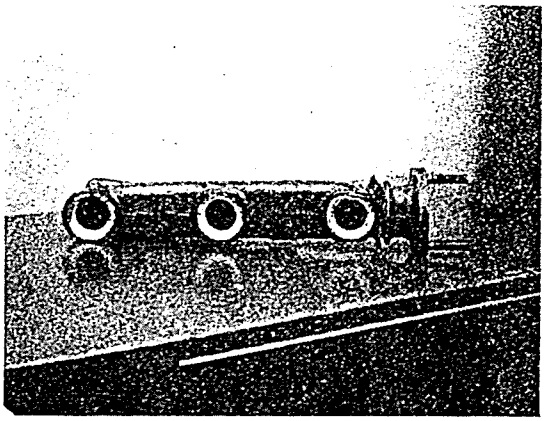
Air filter: Type Oil Wetted Polyurethane No. fitted One
Inlet manifold:
Diameter of flange hole at carburetor Air Inlet on Blower 1.625 In.
Diameter of flange hole at port 1.312 In. Cast Integral with Head





Diameter of flange hole at port 1.171 In.
Diameter of flange hole at connection to muffler inlet pipe 1.406 In.





ENGINE ACCESSORIES

Make of fuel pump AC No. fitted One
Method of operation Eccentric drive off rear of crankshaft

Type of ignition system Coil coil or magneto
Make of ignition Delco-Remy Model 1110329
Method of advance and retard Centrifugal and Boost Pressure

Make of ignition coil Delco-Remy Model 1115200
No. of ignition coils One Voltage 12 Volt

Make of generator Delco-Remy Model 1100639
Voltage of generator 14.8 Maximum output 9-37 amps.

Make of starter motor Delco-Remy Model 1108306

Battery: No. fitted One Voltage 12 Capacity 44 @ 20 Hr. Rate amp. hour

TRANSMISSION

Make of clutch Chevrolet — Type Semi centrifugal diaphragm spring with single dry disc.
Diameter of clutch plate 9.12 In. — No. of plates One
Method of operating clutch Foot pedal thru linkage
Make of gearbox Chevrolet — Type Syncromesh Manual
No. of gearbox ratios 4
Method of operating gearshift Lever (floor-mounted) thru linkage
Location of gearshift Floor
Is overdrive fitted? No
Method of controlling overdrive, if fitted ----

	GEARBOX RATIOS		ALTERNATIVE RATIOS					
Speed	Ratio	No.of Teeth	Ratio	No.of Teeth	Ratio	No.of Teeth	Ratio	No.of Teeth
1st.	3.20							
2nd.	2.19							
3rd.	1.44							
4th.	1.0:1							
5th.								
Reverse	3.66							

Type of final drive Transaxle - Straddle mounted hypoid gear - Integral with eng. & trans.
Type of differential Positraction
Final drive ratio 3.55:1 — Alternatives 3.27:1 3.89:1
No. of teeth 32 & 9 — 36 & 11 35 & 9
Overdrive ratio, if fitted No

WHEELS

Type Short Spoke Disc. - Steel — Weight 16.0 Lbs. Approx.
Method of attachment 5 - Hex Nuts
Rim diameter 13.0 In. — Rim width 5.50 In.
Tire size: Front 6.50 x 13 — Rear 6.50 x 13

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. * m.m.
* .875 w/optional metallic brakes.

	Front	Rear
No. of wheel cylinders	2	2
Bore of wheel cylinders	.875 In.	.9375 In.
Inside diameter of brake drums	9.5 In.	9.5 In.
No. of shoes per brake	2	2
Outside diameter of brake discs	- m.m.	- m.m.
No. of pads per brake	16	16

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	Prim. 1.64 In. Sec. 1,64 In.	Prim. 1.64 In. Sec. 1,64 In.
Width	1.25 In.	1.00 In.
Total area per brake	32.80 In^2	26.24 In^2

SUSPENSION	Front	Rear
Type	Independent	Independent
Type of spring	Coil	Coil
Is stabiliser fitted?	Yes	Yes
Type of shock absorber	Hyd. Double Acting Direct	Same as Front
No. of shock absorbers	2	2

STEERING

Type of steering gear Semi-reversible, recirculating ball
Turning circle of car Outside Front 35.2 Ft. Curb to Curb. approx.
No. of turns of steering wheel from lock to lock 4.70 (3.25 @)

CAPACITIES AND DIMENSIONS

Fuel tank 14 Gal. Sump 4.5 Qts. **
Radiator None litres
Overall length of car 183.3 In. Overall width of car 69.7 In.
Overall height of car, unladen (with top up, if appropriate) 51.2 In.
Distance from floor to top of windshield:
Highest point 39-3/4 In. Lowest point 39-5/8 In.

Width of windshield:
Maximum width 54-5/8 In. Minimum width 44-3/4 In.

*Interior width of car 54.7 In.
No. of seats 2 Front, 1 Rear

Track: Front 55.0 In. Rear 57.2 In.

Wheelbase 108 In. Ground clearance 5.4 In.

Overall weight with water, oil and spare wheel, but without fuel 2218 Lbs.

*(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.)

** Optional 4.0 Qts.
@ With optional 14:1 Gear

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 Thompson — Model or Type No. Turbo-Supercharger
Type of drive Exhaust Turbine — Ratio of drive Does not apply

Fuel injection, if fitted
Make of pump _____ — Model or Type No. _____
Make of injectors _____ — Model or Type No. _____
Location of injectors _____

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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 Thompson Model or Type No. Turbo-Supercharger
Type of drive Exhaust Turbine Ratio of drive Does not apply

Fuel injection, if fitted
Make of pump _____ Model or Type No. _____
Make of injectors _____ Model or Type No. _____

Location of injectors _____

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Optional equipment affecting preceeding information:

Wheels - Wire, Aluminum, Magnesium 6 x 13 - 6.5 x 13 - 7 x 13 - 8 x 13
Fuel Tank - 20 Gal. Capacity
Oil Cooler - Heavy Duty
Engine Blower Pulley - 1.2:1 Ratio
Optional Brakes - Sintered Iron Metallic Lining
Optional Axle Ratios - 3.08:1, 3.70:1, 4.11:1
Optional Suspension - H.D.
Reduced Ratio Steering Gear - 14.0:1 and Linkage
Steel Tubing Exhaust Headers - 1.375 Inlet, 2.00 Outlet
H.P. Camshaft
Optional Electric Fuel Pump
Increased Capacity Oil Pan

FÉDÉRATION INTERNATIONALE DE L'AUTOMOBILE

1353/A/1

Optional Equipment Affecting Preceding Information

Wheels - Wire 6.5 x 13

Optional Axle Ratios 3.70:1

Optional Suspension H.D.

Reduced ratio steering gear and linkage (14:1 gear, 12:1 O.A.)

Increased capacity oil pan - 7 qts.

Optional engines 95 H.P. 110 H.P. 140 H.P.

Specifications for optional engines are the same except as noted on supplementary specification sheets.

Recognition is valid from 1st April 1965

FIA stamp and signature.

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

AUTOMOBILE COMPETITION COMMITTEE
FOR THE UNITED STATES, FIA, INC.
~~707 EAST 80th STREET~~
~~NEW YORK 36, N. Y.~~
FEB - 9 1965

SUPPLEMENTARY SHEET - 95 H.P. ENGINE

ENGINE

No. of cylinders _____ in line _____ in V _____ opposed _____

Cycle _____ Firing order _____

Capacity _____ cc Bore _____ mm Stroke _____ mm

Maximum rebore _____ Resultant capacity _____ cc

Material of cylinder block _____ Material of sleeves, if fitted _____

Distance from crankshaft center line to top face of block at center line of cylinders _____ mm

Material of cylinder head _____ Volume of one combustion chamber 55.3 cc

Compression ratio 8.25

Material of piston _____ No. of piston rings _____

Distance from wrist pin center line to highest point of piston crown _____ mm

Bearings (Crankshaft main bearings: Type _____ Dia. _____ mm

(Connecting rod big end: Type _____ Dia. _____ mm

Weights (Flywheel _____ kg

(Crankshaft _____ kg

(Connecting rod _____ kg

(Piston with rings _____ kg

(Wrist pin _____ kg

No. of valves per cylinder _____ Method of valve operation _____

No. of camshafts _____ Location of camshafts _____

Type of camshaft drive _____

Diameter of valves:	Inlet	mm	Exhaust	mm
Diameter of port at valve seat:	Inlet	mm	Exhaust	mm
Tappet clearance for checking timing:	Inlet	mm	Exhaust	mm
Valves open:	Inlet	44° BTC	Exhaust	78° BBC
Valves close:	Inlet	88° ABC	Exhaust	54° ATC
Maximum valve lift:	Inlet	.4030 In.	Exhaust	.4030 In.
Degrees of crankshaft rotation from zero to - Maximum lift:	Inlet		Exhaust	
3/4 Maximum lift:	Inlet		Exhaust	

Valve springs:	Inlet	Exhaust
Type		
No. per valve		

Carburetor: Type Down Draft (up or down draft, horizontal) No. fitted 2

Make Rochester Model 7025023

Flange hole diameter 1.250 In. Choke diameter 2.281 mm

Main jet identification No. 51

Addenda -2-

Air filter: Type _____ No. fitted _____
Inlet manifold:
Diameter of flange hole at carburetor 1.250 mm
Diameter of flange hole at port 1.312 Cast Integral w/head mm

(Photograph of combustion chamber to be affixed here.)

(Photograph of inlet manifold to be affixed here.)

Exhaust manifold:
Diameter of flange hole at port _____ mm
Diameter of flange hole at connection to muffler inlet pipe _____ mm

(Photograph of piston showing crown to be affixed here.)

(Photograph of exhaust manifold to be affixed here.)

ENGINE ACCESSORIES

Make of fuel pump _____ No. fitted _____
Method of operation _____

Type of ignition system _____ coil or matneto
Make of ignition _____ Model _____
Method of advance and retard _____

Make of ignition coils _____ Model _____
No. of ignition coils _____ Voltage _____

Make of generator _____ Model _____
Voltage of generator _____ Maximum output _____ amps.

Make of starter motor _____ Model _____

Battery: No. fitted _____ voltage _____ Capacity _____ amp hour

SUPPLEMENTARY SHEET - 110 H.P. ENGINE

ENGINE

No. of cylinders _____ in line _____ in V _____ opposed _____

Cycle _____ Firing order _____

Capacity _____ cc Bore _____ mm Stroke _____ mm

Maximum rebore _____ Resultant capacity _____ cc

Material of cylinder block _____ Material of sleeves, if fitted _____

Distance from crankshaft center line to top face of block at center line of cylinders _____ mm

Material of cylinder head _____ Volume of one combustion chamber 48.0 cc

Compression ratio 9.25

Material of piston _____ No. of piston rings _____

Distance from wrist pin center line to highest point of piston crown _____ mm

Bearings
(Crankshaft main bearings: Type _____ Dia. _____ mm
(Connecting rod big end: Type _____ Dia. _____ mm

Weights
(Flywheel _____ kg
(Crankshaft _____ kg
(Connecting rod _____ kg
(Piston with rings _____ kg
(Wrist pin _____ kg

No. of valves per cylinder _____ Method of valve operation _____

No. of camshafts _____ Location of camshafts _____

Type of camshaft drive _____

Diameter of valves:	Inlet	mm	Exhaust	mm
Diameter of port at valve seat:	Inlet	mm	Exhaust	mm
Tappet clearance for checking timing:	Inlet	mm	Exhaust	mm
Valves open:	Inlet	55° BTC	Exhaust	97° BBC
Valves close:	Inlet	105° ABC	Exhaust	63° ATC
Maximum valve lift:	Inlet	.3907 In. xxx	Exhaust	.3907 In. xxx

Degrees of crankshaft rotation from zero to -

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

Valve springs:	Inlet	Exhaust
Type		
No. per valve		

Carburetor: Type Down Draft (up or down draft, horizontal) No. fitted 2

Make Rochester Model 7025024

Flange hole diameter 1.250 In. mm Choke diameter 2.281 In. xxx

Main jet identification No. 50

Air filter: Type _____ No. fitted _____

Inlet manifold:

Diameter of flange hole at carburetor 1.250 mm

Diameter of flange hole at port 1.312 Cast Integral w/head mm

(Photograph of combustion chamber to be affixed here.)

(Photograph of inlet manifold to be affixed here.)

Exhaust manifold:

Diameter of flange hole at port _____ mm

Diameter of flange hole at connection to muffler inlet pipe _____ mm

(Photograph of piston showing crown to be affixed here.)

(Photograph of exhaust manifold to be affixed here.)

ENGINE ACCESSORIES

Make of fuel pump _____ No. fitted _____

Method of operation _____

Type of ignition system _____ coil or matneto

Make of ignition _____ Model _____

Method of advance and retard _____

Make of ignition coil _____ Model _____

No. of ignition coils _____ Voltage _____

Make of generator _____ Model _____

Voltage of generator _____ Maximum output _____ amps.

Make of starter motor _____ Model _____

Battery: No. fitted _____ voltage _____ Capacity _____ amp hour

XXXXX

SUPPLEMENTARY SHEET - 140 H.P. ENGINE

ENGINE

No. of cylinders _____ in line _____ in V _____ opposed _____

Cycle _____ Firing order _____

Capacity _____ cc Bore _____ mm Stroke _____ mm

Maximum rebore _____ Resultant capacity _____ cc

Material of cylinder block _____ Material of sleeves, if fitted _____

Distance from crankshaft center line to top face of block at center line of cylinders _____ mm

Material of cylinder head _____ Volume of one combustion chamber 50.2 cc

Compression ratio 9.25

Material of piston _____ No. of piston rings _____

Distance from wrist pin center line to highest point of piston crown _____ mm

Bearings
(Crankshaft main bearings: Type _____ Dia. _____ mm
(Connecting rod big end: Type _____ Dia. _____ mm

Weights
(Flywheel _____ kg
(Crankshaft _____ kg
(Connecting rod _____ kg
(Piston with rings _____ kg
(Wrist pin _____ kg

No. of valves per cylinder _____ Method of valve operation _____

No. of camshafts _____ Location of camshafts _____

Type of camshaft drive _____

Diameter of valves:	Inlet 1.725 In. ~~mm~~	Exhaust 1.365 In. ~~mm~~
Diameter of port at valve seat:	Inlet _____ mm	Exhaust _____ mm
Tappet clearance for checking timing:	Inlet _____ mm	Exhaust _____ mm
Valves open:	Inlet 55° BTC	Exhaust 97° BBC
Valves close:	Inlet 105° ABC	Exhaust 63° ATC
Maximum valve lift:	Inlet .3907 In. ~~mm~~	Exhaust .3907 In. ~~mm~~

Degrees of crankshaft rotation from zero to -

Maximum lift:	Inlet _____	Exhaust _____
3/4 Maximum lift:	Inlet _____	Exhaust _____

Valve springs:	Inlet	Exhaust
Type	_____	_____
No. per valve	_____	_____

Carburetor: Type Down Draft (up or down draft, horizontal) No. fitted 4

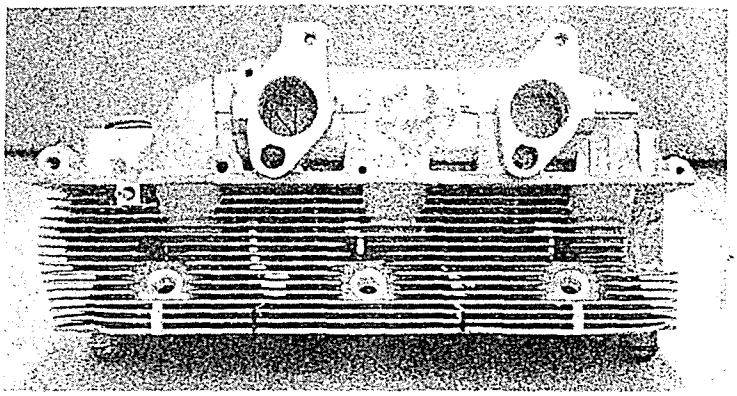
Make Rochester Model 7025023 (Prim.) 7025226 (Sec.)

Flange hole diameter 1.250 In. ~~mm~~ Choke diameter 2.281 In. ~~mm~~

Main jet identification No. 51 Pri. 48 Sec.

Air filter: Type _____ No. fitted _____
Inlet manifold:
Diameter of flange hole at carburetor 1.250 In. Both mm
Diameter of flange hole at port 1.312 Cast integral with head mm

(Photograph of combustion chamber to be affixed here.)



Exhaust manifold:
Diameter of flange hole at port _____ mm
Diameter of flange hole at connection to muffler inlet pipe _____ mm

(Photograph of piston showing crown to be affixed here.)

(Photograph of exhaust manifold to be affixed here.)

ENGINE ACCESSORIES

Make of fuel pump _____ No. fitted _____
Method of operation _____

Type of ignition system _____ coil or magneto
Make of ignition _____ Model _____
Method of advance and retard _____

Make of ignition coil _____ Model _____
No. of ignition coils _____ Voltage _____

Make of generator _____ Model _____
Voltage of generator _____ Maximum output _____ amps.

Make of starter motor _____ Model _____

Battery: No. fitted _____ voltage _____ Capacity _____ amp hour

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