

Original Specifications

1965 Chevrolet Impala Sport Coupe 283 V-8 Turbo-fire Powerglide

Summary

Data for Chevrolet Impala Sport Coupe 283 V-8 Turbo-Fire Powerglide, model year 1965, version for North America U.S. (up to October) with 2-door coupe body type, RWD (rear-wheel drive) and automatic 2-speed gearbox.

Basic specs and characteristics: gasoline engine of 283 cubic inch (cu in) displacement with advertised power 195 hp / 198 PS (SAE gross) @ 4800 rpm and 285 lb-ft torque @ 2400 rpm.

Dimensions: this model's outside length is 213.1 in, it's 79.6 in wide, and has wheelbase of 119 in.

The value of a drag coefficient, estimated by a-c, is $C_d = 0.55$

Reference vehicle weights are: official base curb weight 3699 lbs

Performance: top speed 104 mph (theoretical); accelerations 0- 60 mph 11.2 sec; 1/4 mile drag time 18.7 sec

Identification Data

Chevrolet Impala Sport Coupe 283 V-8 Turbo-Fire Powerglide as offered for the year 1965 until October in North America U.S.

Production/sales period of cars with these particular specs: September 1964 - October 1965

Model year: 1965

Country of origin: USA

Make: Chevrolet (USA)

Model: Full-Size 07th generation 1965-1970

Submodel: Impala Sport Coupe 1965-1970

EEC segmentation: E (executive cars)

Subsegment: SCL (sport luxury coupe cars)

Class: full-size / executive car

Body style: hardtop coupe

Identification Data (cont'd)

Doors: 2

Traction: RWD (rear-wheel drive)

Dimensions and Capabilities

Length: 213.1 in

Width: 79.6 in

Height: 53.9 in

Wheelbase: 119 in

Front track: 62.5 in

Rear track: 62.4 in

Ground clearance: 5.3 in

Turning circle btw. walls: 44 ft

Turning circle btw. curbs: 40.8 ft

Drag coefficient estimated by a-c: 0.55

Trunk (cargo) capacity SAE: 17.7 cu ft

Loading height: 24.6 in

Weight

Curb weight (without a driver): 3699 lbs

Powertrain

Engine manufacturer: GM Chevrolet Small-Block V-8 283 cu in

Engine type: spark-ignition 4-stroke

Fuel type: gasoline

Fuel system: carburetor

Charge system: naturally aspirated

Powertrain (cont'd)

Valves per cylinder: 2

Additional features: Rochester 2-barrel

Cylinders alignment: V 8

Displacement: 283 cubic inch

Bore: 3.875 in

Stroke: 3 in

Compression ratio: 9.25: 1

Power gross: 195 hp /198 PS (SAE gross) @ 4800 rpm

Torque gross: 285 ft-lb @ 2400 rpm

Fuel capacity: 20.1 U.S. gal

Drivetrain

Gearbox: Powerglide

Transmission type: automatic

Number of gears: 2

Gear ratios (overall): 1st gear 6.12; 2nd gear 3.36; Reverse 1.82

Speed range (max speed on gears, top gear value theoretical):

1st gear: 63 mph

2nd gear: 116 mph

1000 rpm speed:

1st gear: 12.6 mph

2nd: 22.8 mph

Torque converter factor: 2.1

Final drive ratio std: 3.36

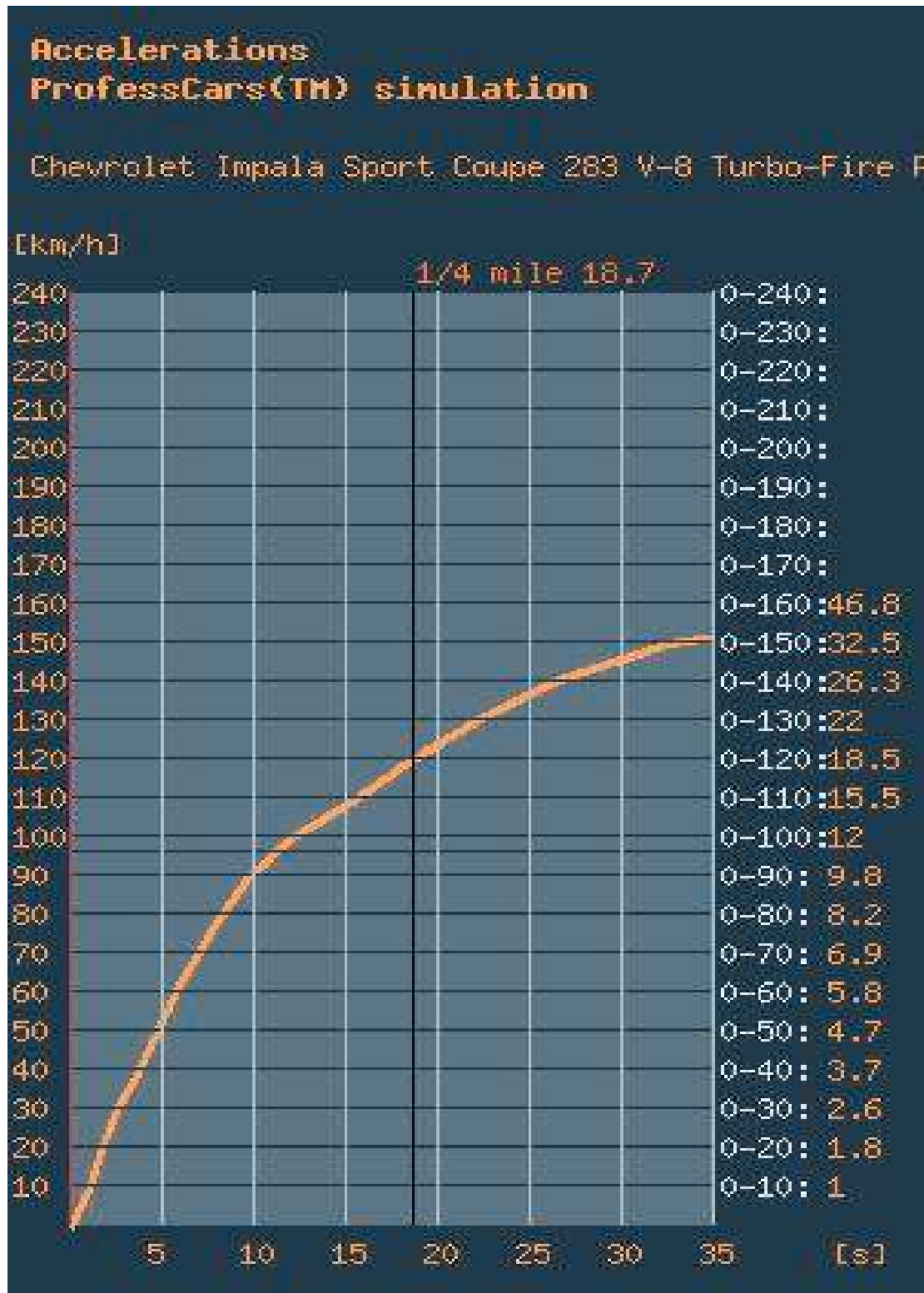
Optional: 3.55

Front brakes: drum

Rear brakes: drum

Drivetrain (cont'd)

Standard tires: G78-14



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For the car with basic curb weight, full fuel tank and 90 kg (200 lbs) load

Top speed (theoretical without speed governor): 104 mph

Acceleration

0-20 mph (s): 2.9

0-30 mph (s): 4.6

0-40 mph (s): 6.3

0-50 mph (s): 8.3

0-60 mph (s): 11.2

0-70 mph (s): 16.3

0-80 mph (s): 21.5

0-90 mph (s): 29

0-100 mph (s): 48.1

Drag times

0- ¼ mile: 18.7 sec @ 75 mph

Overtaking Factors

The times show how fast a car accelerates using the optimal gear or gears, in typical overtaking situations. It is an overtaking with gear reduction or kick-down, the best possible times. Not including the transmission reaction time.

40-70 mph through gears (sec): 10

50-90 mph through gears (sec): 20.7

Fuel Consumption

Highway: 18.8 mpg

City: 10.2 mpg

Average: 12.3 mpg

Sourced from http://www.automobile-catalog.com/make/chevrolet_usa/full-size_chevrolet_7gen/full-size_impala_3gen_hardtop_coupe/1965.html on April 23, 2014.