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1982 Corvette Engine Specifications

Engine	
General	
Availability:	Standard
Type:	Overhead valve, pushrod V8, 2 valves/cylinder
Displacement:	350 ci. (5.735 L)
Horsepower:	200 hp @ 4,200 rpm
Torque	285 lb-ft. @ 2800 rpm
Bore x Stroke	4.00 in. (101.6 mm) x 3.48 in. (3.48 mm)
Bore Spacing (C/L - C/L):	4.40 in. (11.8 mm)
Cylinder No. System:	Left Hand Bank: 1-3-5-7 Right Hand Bank: 2-4-6-8
Firing Order:	1-8-4-3-6-5-7-2
Cylinders	
Head & Block Material:	Cast alloy iron
Block Deck Height:	9.03 in. (229.4 mm)
Head Volume (cm³):	73.27
Head Gasket Thickness (compressed):	0.021
Head Gasket Volume (cm³):	4.60
Mounting Points:	Front: 2 Rear: 1
Min. Combustion Chamber Total Vol. (cm³):	75.47
Deck Clearance - Min Below:	0.025
Recommended Fuel:	87 Octane Unleaded
Total Dressed Engine Dry Weight*:	584 lbs (264.8 kg)
* - Dry weight includes front of engine from fan to rear face of block including coolant, radiator hoses, engine mountings and accelerator controls.	
Pistons	
Material:	Cast Aluminum Alloy
Type and Finish:	Closed Skirt and Sump Head
Mass Weight:	21.24 oz. (0.606 kg)
Clearance Limitations:	Top Land: 0.030 - 0.33 (0.762 - 0.838) Top Skirt: 0.0012 - 0.0017 (0.03 - 0.043)
Ring Groove Diameter:	Ring No. 1: 3.541 - 3.556 (89.94 - 90.32) Ring No. 2: 3.541 - 3.556 (89.94 - 90.32) Ring No. 3: 3.577 - 3.592 (90.86 - 91.24)
Ring Function:	Ring No. 1: Compression Ring No. 2: Compression Ring No. 3: Oil
Ring Compression:	Upper: Radius Face - Molybdenum Filled Channel Lower: Tapered Face, Inside Bevel Width: 0.0773 - 0.0780 (1.963 - 1.981) Gap - Upper: 0.010 - 0.020 (0.25 - 0.51) Gap - Lower: 0.013 - 0.025 (0.33 - 0.63)
Ring Oil:	Type: 0.50 - Stainless Steel

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	Coating: Minimum Chrome Thickness: 0.002 (0.051) Width: 0.185 - 0.187 (4.700 - 4.75) Gap: 0.015 - 0.055 (0.38 - 1.40)
Expanders:	In oil ring assembly
Pins:	Type: Locked in Rod Material: Chromium Steel (1018) Length: 2.990 - 3.010 (75.95 - 76.15) Diameter: 0.9270 - 0.9273 (23.546 - 23.553) Clearance in Piston: 0.00025 - 0.00035 (0.0063 - 0.0089) AMT Offset in Piston: Major Thrust Side - 0.060 (1.52)
Rods	
Material:	1037 or 1038 Steel
Mass Weight:	21.32 oz (604.47 g)
Length (C/L to C/L):	5.696 - 5.705 (144.6 - 144.9)
Bearing:	Material: Premium Aluminum Length: 0.837 (21.26) Clearance Limitations: 0.0010 - 0.0025 (0.0254 - 0.0635) End Play: 0.006 - 0.016 (0.15 - 0.41)
Valves	
Type:	Standard Exhaust
Push Rods:	Diameter & Length: 0.3125 & 7.724 (7.9 x 196.2) Material: Carbonitrided - Welded Steel Tubing
Rocker Ratio:	1.50:1
Operating Tappet Clearance:	0
Timing:	Intake: Opens BTC: 32 Closes BTC: 104 Degree Duration: 316 Exhaust: Opens BTC: 84 Closes BTC: 56 Degree Duration: 320
Valve Open Overlap Deg.:	88
Overall Intake Valve:	Material: SAE 3140 a - Forged Steel, Chrome Flash Stem - (full chrome) Length: 4.880 (123.95) Actual Overall Head Diameter: 1.940 (49.28) Seat Angle & Face Degree: 46, 45 Stem Diameter: 0.3410 - 0.3417 (8.661 - 8.679) Stem to Guide Clearance: 0.0010 - 0.0027 (0.025 - 0.069) Lift @ Zero Lash: 0.410 (10.41) Outer Spring / Valve Closed: 76 - 84 @ 1.70 (338 - 474 @ 43.2_) Press & Length / Valve Open: 194 - 206 @ 1.25 (863 - 916 @ 31.75) - (N @ mm (Newton meters - Pound at inches))
Exhaust Valve:	Material: 21 - 2N Steel - Aluminized Head - (chrome flash stem) Overall Length: 4.920 (125.0) Overall Head Diameter: 1.50 (38.1) Seat Angle & Face Degree: 46, 45 Stem Diameter: 0.3410 - 0.3417 (8.661 - 8.679) Stem to Guide Clearance: 0.0010 - 0.0027 (0.025 - 0.069) Lift @ Zero Lash: 0.423 (10.74) Outer Spring / Valve Closed: 76 - 84 @ 1.70 (338 - 474 @ 43.2_) Press & Length / Valve Open: 194 - 206 @ 1.25 (863 - 916 @ 31.75) Inner Spring Valve Closed & Open: Spring Damper - (N @ mm (Newton meters - Pound at inches))
Crankshaft	
Material:	Cast Nodular Iron
Vibration Damper Type:	Rubber Mounted Inertia
End Thrust:	Taken by bearing #5
End Play:	0.002 - 0.007 (0.051 - 0.178)
Main Bearing:	Material: Steel Backing with Aluminum Alloy Backing Clearance: 0.002 - 0.0035 (0.0508 - 0.0889) Journal Diameter and Bearing Overall Length: No. 1: 2.4489 x 0.802 (62.202 x 20.37) No. 2: 2.4486 x 0.802 (62.194 x 20.37) No. 3: 2.4486 x 0.802 (62.194 x 20.37) No. 4: 2.4486 x 0.802 (62.194 x 20.37) No. 5: 2.4484 x 1.533 (62.189 x 38.94)
Camshaft	
Location:	In Block Above Crankshaft
Material:	Cast Alloy Iron
Bearing Material and No.:	Steel Backed Babbit - 5
Drive Type:	Drive: Silent Chain Crankshaft Gear / Sprocket Material: Sintered Iron

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	Camshaft Gear / Sprocket Material: Aluminum Nylon No. Timing Chain Links: 46 Chain / Belt Width & Pitch: 0.625 (15.87) & .0500 (12.7)
Lubrication System	
Type:	Main Bearings: Pressure Connecting Rods: Pressure Piston Pins: Splash Camshaft Bearings: Pressure Tappets: Pressure Timing Gear / Chain: Centrifugally Oiled by Camshft BRG Cylinder Walls: Pressure
Oil Pump Type:	Gear
Normal Oil Pressure: (kPa (PSI) @ ENG RPM)	310 (45)
Oil Intake Type	Stationary
Oil Filter System Type	Full Flow
Crankcase Capacity - L (qt)	3.8 (4.0)
Exhaust System	
Type	Dual System
Type & No. of Mufflers	Reverse Flow - 2
Muffler:	Shell: Sheet Heat Steel Aluminum Coating Cover: Stainless Steel Outer Wrap
Resonator Type	None
Exhaust Pipe	Material: Laminated Stainless Steel Tubing Branch OD Wall Thickness: 2.75 x 0.045 (69.85 x 1.143) Main OD Wall Thickness: 3.0 x 0.072 (96.0 x 1.83)
Intermediate Pipe:	Material: Aluminum Coated Stainless Steel Tubing OD Wall Thickness: 2.50 x 0.072 (63.5 x 1.83)
Tail Pipe:	Material: Aluminum Coated Steel Tubing OD Wall Thickness: 2.25 x 0.072 (57.15 x 1.83)
Fuel System	
Carburetor:	Type: Cross-Fire Injection SAE Flange Size: 1.50 Idle Speed (Automatic): 500 Intake Manifold Heat Control: Exhaust Choke Type: None
Air Cleaner:	Type: Single Snorkel Filter: Replaceable Paper Element
Fuel Pump:	Type: Electric Location: In Fuel Tank
Fuel Tank:	Capacity: Approximately 24 Gal. (90.9 L) Location: Body Cavity at Rear of Deck Area Filler: Center of Rear Upper Deck Area
Cooling System	
Type:	Pressure-Vented through Coolant Recovery System
System Capacity:	With Heater: 21.6 QTS (20.4 L) - Without Heater: Heater is Standard Equipment
Circulation Type:	Choke
Thermostat:	Type: Centrifugal Starts to Open: 195° F (90.6°C)
Water Pump:	Type: Centrifugal No. of Pumps: One Drive: V-Belt Bearing Type: Sealed Double Row Ball
Bypass Recirculation Type:	Internal
Radiator Core Type:	Crossflow - Tube and Center
Water Jackets:	Full Length of Cylinder
Water Circulation:	All Around Cylinder
Radiator Core:	Standard: Width: 26.3 (668.0) Height: 16.9 (429.7) Thickness: 1.58 (40.2) H.D: Width: 26.3 (668.0) Height: 17.0 (431.0) Thickness: 2.68 (68.1)
Radiator Hose:	Lower (No., Type, Diameter (in.)): One, Molded, 1.50 (38.1) Upper (No., Type, Diameter (in.)): One, Molded, 1.25 (31.75) Bypass: None
Radiator Cap Relief Valve:	Opens @ approximately 15.0 (103.4) PSI
Standard Fan:	No. of Blades & Diameter: 5 Staggered - 18.0 (457.2) - (The auxiliary electric cooling fan is listed as "Standard Equipment".) Ratio Fan to Crankshaft Revolutions: 1.24:1

	Fan Cutout: Thermomodulated Viscous Type Clutch Drive: One V-Belt
Exhaust Emission System	
Type:	Air injection with computer command control
Air Injection Pump:	Type: Vane Displacement: 19 (311.4) Drive Ratio: 1.53
Exhaust Gas Recirculation System:	Drive Type: V-Belt Type: Controlled Flow Valve Type: VAC Modulated Shut-Off and Meter Valve Valve Location: RH Rear at Manifold Energy Source Control: Carb. Vacuum Exhaust Source: Manifold Exhaust Crossover Exhaust Cooler Type: None Orifice Qty: 1 Point of Exhaust Injection: Inlet Manifold
Catalytic Converter System:	Catalyst Type: Platinum-Palladium Catalyst Volume - L (in³): 2.786 (170) Substrate Type: Dual Bead Container Location: Below Right Side Underbody Passenger Seat
Crankcase Emission System	
Type:	Air Induction
Control Unit:	Make: A.C. Location: LH Front Rocker Cover Energy Source: Manifold Vacuum Energy Source: Manifold Vacuum Control: Variable Orifice Discharges To: Inlet Manifold Air Source: Carb Air Inlet Flame Arrestor: Screen
Evaporative Emission System	
Fuel Tank:	Thermal Expansion: Approximately 10% of Refill Capacity Vapor Liquid Separator Type: Integral with Fuel Tank
Vapor Storage:	Vented To: Fuel Tank Canister Volume: Approximately 50 Grams Storage Capacity
Electrical System	
Battery:	Make: Delco Remy Freedom II Voltage Rating: 12V SAE Capacity: 115 Minute Reserve Location: Rear of Driver Seat Storage Compartment
Alternator:	Make & Model: Delco Remy - 1103103 Type & Rating: Diode Rectified - 63
Regulator:	Make: Delco Remy Type: Micro Circuit Integral with Alternator
Electrical System - Starting	
Start Motor:	Make: Delco Remy Model: 1998241
Motor Drive:	Engagement Type: Positive Shift Solenoid Pinion Engages From: Rear No. of Teeth: Pinion - 9, Flywheel - 168 Type & Make: High Energy (HEI) & Delco Remy
Ignition System:	Model: Integral with Distributor Spark Plug: Make & Model No: AC R45TS Thread: 14 Gap: .045 (1.143)
Note: First measurements are U.S. customary units and those in the parentheses are SI metric units.	

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