

Engine

Engine—1966 L72 425HP 427CID ENGINE Build

66 Corvette L72/425HP 427 VIN 194376S108989

1966 Corvette Coupe Production Date: December 20, 1965
Factory Dated Correct L72 Complete

Cylinder Block: #3869942 w/4-bolt mains (Cast Date J205/10-20-65) Block has been magnafluxed and pressure tested—all pre machine work completed

Correct Broaching and VIN/Suffix Stamping on Block. This includes shipping block 2 ways (NCRS APPROVED)

Cylinder Heads: #3873858 Rectangular Porte (Dated I135/9-1
Completely Rebuilt with new guides, hardened seats and seals

Finish Machine Work after block is broached and stamped Rotating Assembly will be balanced and include:
Block with Correct Matching Engine Pad
#6223 Crank Steel GM Crankshaft—polished . 101.10
New Bearings and Hardware
Reconditioned GM Rods with ARP Bolts
New Forged Pistons and Pins
Correct GM Original Bolts (reconditioned)

New Correct Push Rods and Correct Gasket Set
Howards' roller hydraulic performance camshaft assembly
Restored GM 8" Balancer and Timing Cover

New HD Timing Chain Assembly
Long Block Assembled:
—original dated spark plug wires
—original AC Delco Spark Plugs
—source/restore correct #3885069 Aluminum Intake and restore
--source and restore Correct Restored TI Amplifier with New Chip
--source new TI Ignition Wiring Harness
—source, restore and install correct Exh Manifolds
—source, restore and install correct #765 Starter
—source, restore 3247 Carb and install (Professional reanodized and restored carb)
—source, restore correct dated Water Pump and install
—source, restore correct dated Alternator and install
—source, restore correct WP Fan Blade and install
—source, restore correct 480 Water Pump Pulley and install
—source, restore and install correct Components (brackets, additional pulleys, bolts, etc—all GM correct)
—source, restore original bolts and other hardware
—Engine Break In—Run 3 times on Engine Stand ($NC)

Engine broach and stamping performed by Randy at Engines Limited in Omro, Wisconsin with original GM equipment.

TRANSMISSION
Build correct 1966 M-21 Close Ration Muncie 4 Speed
Transmission—Master Rebuild Kit (all newparts)---
Correct 11" GM Flywheel restored with new Ring Gear (Balanced and Installed)
Correct GM #3872444 11" Bellhousing—Restored with new boot
HD Clutch Assembly (New Center Force)
VIN and Date Stamped to match car/engine

DIFFERENTIAL
Build correct 1966 HD Posi traction Rear End (for 427) with 3.70
Gears—All New Parts and Hardware* 1750 Date
and Suffix Stamped to match car—

ABOUT THE ENGINE:
Engines Limited (Randy Chapin): They are famous in the Corvette community for sourcing and operating a vintage, heavy-duty **Ohio Broaching machine**. This specialized piece of tooling runs a long, multi-toothed broach bar horizontally across the block's deck in a single continuous stroke. If your block has exceptionally clean, straight-line parallel broach marks that run perfectly length-wise without any rotational pattern or overlapping arcs, it strongly aligns with their machinery's output. They also maintain hard-to-find vintage steel stamp fonts matching original Flint and Tonawanda assembly plant characters