# NCRS 1984 - 1989 Corvette Performance Verification Test

**Owner’s Name:**

**Membership #:**

**Date:**

**Address:**

**City:**

**State:**

**Zip:**

**Area Code & Phone:**

**Chapter Affiliation:**

**Location:**

- Regional Meet
- National Convention

**Model Year:**

**Complete VIN:**

**Horsepower:**

**Exterior Color:**

**Interior Color:**

- Coupe
- Convertible

## LIABILITY INSURANCE VERIFICATION (Event Participation Requires Proof of In-force Liability Insurance)

**Insurance Company Name:**

**Policy Number:**

**Expiration Date:**

**Important:** Prior to beginning test, owner and judge review Judging Reference Manual for test prerequisites and requirements including: Expected component function, seat belt use, engine RPM requirement, single malfunction repair and failure. Conduct test in order listed, circling each pass. Note specific reason for test failure. Conduct test in safe legal manner.

Verifier is to score by circling “Pass” or “Fail” at right-hand column; one failure terminates test.

### PRETEST

Pretest: Owner, Third Flight, Liability Insurance, VIN Plate, Registration, License Plate(s),
Driver’s License, Tire Type, Wheel Type

Pretest: Cold Engine Check

### THE TEST STARTS NOW—Cold Engine Start & Idle

- Pre-start Fluid Leaks
- Automatic Transmission Starter Safety Switch (no cranking in forward & reverse ranges)
- Manual Transmission Starter Interlock (no cranking unless clutch pedal is all the way to floor)
- Start (no excessive cranking) (no starter drag)
- Idle (engine must be cold)
- Verify Engine Cooling Fans “Off”
- Check for Excessive Engine Belt Squeal (with A/C on & off)
- Exhaust System (no leaks)
- Normal Idle (check for smoke, misfire & noisy lifters) (with A/C on & off)

### INTERIOR & EXTERIOR

Windshield Wipers: Speeds, Mist & Delay (check wiper pattern)

Windshield Washers (check coordination with wipers, even spray, no wiper streaking & shut-off)

### Stop Engine after Washer Test

- Clock (depress volume control to display, ign. off) & Reset - Time
- Interior Courtesy Lamps (underdash & dome) (check door remotes & light switch lamp functions)
- Map Light
- Lighted Vanity Mirror
- Seat Belt Warming Lamp & Chime
- Seat Belt Adjustment & Buckle Function (& locking retractors)
- Seat Track Fore & Aft Manual Adjustments (both seats) & Optional ’6-way Power Driver Seat.
<table>
<thead>
<tr>
<th>Component</th>
<th>Pass</th>
<th>Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Filler Door Catch (spring-loaded hinge) &amp; Gas Cap (ratcheting mechanism)</td>
<td></td>
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<tr>
<td>Jack &amp; Cranking/Lug Wrench Tool</td>
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<tr>
<td>Spare Tire Carrier</td>
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<tr>
<td>Anti-Theft Alarm (check arm/disarm w/oval key; doors, hatch remote switches)</td>
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<tr>
<td>Coupe Removable Roof Panel Latches (check lock &amp; release functions)</td>
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<td></td>
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<tr>
<td>Outside Rearview Mirror Adjusting Operation (must maintain position during drive)</td>
<td></td>
<td></td>
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<tr>
<td>Door Hinges Operation (left &amp; right)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outside Door Lock &amp; Key Function (oval key only, both doors)</td>
<td></td>
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<tr>
<td>Outside Door Latch Mechanism Open &amp; Close Function (both doors)</td>
<td></td>
<td></td>
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<tr>
<td>Horns (dual horns all years)</td>
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<tr>
<td>Ignition Switch &amp; Key Function (including accessory position)</td>
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<tr>
<td>Anti-Theft Ignition &amp; Steering Lock</td>
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<tr>
<td>Tilt-Telescopic Steering Column</td>
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<tr>
<td>Inside Rearview Mirror Pivoting &amp; Day/Night Adjustments (must hold position during drive)</td>
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<tr>
<td>Hood Release &amp; Latching Function (must remain latched during test drive)</td>
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<tr>
<td>Underhood Lamps</td>
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<tr>
<td>Hood Hinges &amp; Support</td>
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<tr>
<td>Horn Button (check for total horn button circumference contact)</td>
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<td>Coupe Removable Roof Panel Latches (check lock &amp; release functions)</td>
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<tr>
<td>Coupe Roof Panel Storage Brackets</td>
<td></td>
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<tr>
<td>Convertible Top Operation (if applicable)</td>
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<td>Jack &amp; Cranking/Lug Wrench Tool</td>
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<tr>
<td>Spare Tire Illumination Lamp (activates with interior courtesy lamps)</td>
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**DRIVING LAMPS & ACCESSORIES**

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<tr>
<th>Component</th>
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<th>Fail</th>
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<tbody>
<tr>
<td>RESTART Engine (Optional)</td>
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<td></td>
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<tr>
<td>Headlamp Doors</td>
<td></td>
<td></td>
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<tr>
<td>Low Beam Headlamps</td>
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<tr>
<td>High Beam Headlamps</td>
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<tr>
<td>Headlamp Bright Beam Indicator (blue)</td>
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<tr>
<td>Fog Lamps</td>
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<tr>
<td>Front Parking Lamps (must use amber bulbs; must operate with headlamps on)</td>
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<tr>
<td>Front &amp; Rear Turn Signals (with &amp; without park lamps on) (front side markers must integrate)</td>
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<tr>
<td>Cornering Lamps</td>
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<tr>
<td>Direction Signal Pilot Indicators (must flash green) (must operate with hazard flasher)</td>
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<tr>
<td>Emergency Hazard Flasher Switch &amp; Lamps</td>
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<tr>
<td>Brake Lights</td>
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<tr>
<td>Tail Lights &amp; License Lamp</td>
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<tr>
<td>Front &amp; Rear Side Marker Lamps (front side markers integrate with turn signals)</td>
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<tr>
<td>Back-Up Lights</td>
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</table>
Cover Windows to Facilitate Interior Light Checks
Instr. Panel Gauge, Radio & Clock Illum. (check light sw. brightness regulator & display dimming)............Pass Fail
Console Illumination (auto trans, shift quadrant & heater-A/C control) ..........................................................Pass Fail

Uncover Windows
Brake System Warning Light (check using park brake lever) ..............................................................Pass Fail
Park Brake Lever Apply & Release Function .................................................................................. Pass Fail
Radio Volume & Tone Controls (must sound clear with no static) .................................................... Pass Fail
Radio AM-FM- Selector Function ................................................................................................. Pass Fail
Radio Display Function (digital readout/AM-FM-indicator) .............................................................. Pass Fail
Stereo Radio Reception Indicator Light & Speaker Balance Control (must play in stereo) .............. Pass Fail
Stereo Tape Player (cassette) ........................................................................................................ Pass Fail
Radio Scan & Seek Functions ....................................................................................................... Pass Fail
Power Antenna (extends with radio on; retracts with radio or ignition off) .................................. Pass Fail
Heater & A/C Fan Speeds ........................................................................................................... Pass Fail
Heater & A/C Temperature Control ............................................................................................. Pass Fail
Air/De-Ice Control (non-A/C) (airflow from off to floor to windshield defroster duct) ................. Pass Fail
Air Conditioning System (must blow cold in “norm” & “max” [inside air] positions) ...................... Pass Fail
A/C Air Flow Duct Outlets Positioning (center & outboard) .......................................................... Pass Fail
Coupe & Convertible Hardtop, Rear Window Defogger (timed indicator light & element operation) ... Pass Fail

TEN-MILE ROAD TEST
Trip Odometer (reset to “0000” & check operation/accuracy during test drive) End .......................Pass Fail
Odometer (check operation/accuracy during test) Begin & End .................................................. Pass Fail
Acceleration (check for engine misfire & stumble) ........................................................................ Pass Fail
Deceleration (check for backfire) .................................................................................................. Pass Fail
Cruise Control (if equipped) ......................................................................................................... Pass Fail
Speedometer ............................................................................................................................... Pass Fail
Tachometer ..................................................................................................................................... Pass Fail
Verify “Check Engine” or “Service Engine Soon” light off ........................................................ Pass Fail
Oil Pressure (30 to 70 lbs.) ........................................................................................................ Pass Fail
Oil Temperature ........................................................................................................................ Pass Fail
Engine Coolant Temperature (normal 195-250; 250 max; check for overheating) ......................... Pass Fail
Voltmeter ................................................................................................................................. Pass Fail
Fuel Gauge .............................................................................................................................. Pass Fail
Direction Turn Signal Cancel (left & right) ...................................................................................... Pass Fail
Direction Signal “Lane Change” Function (left & right) ................................................................. Pass Fail
Sunshades (move freely & maintain position on test) (vanity mirror lights) ................................. Pass Fail

MANUAL TRANSMISSION
Excessive Noise (including clutch throw-out bearing) ............................................................... Pass Fail
Gear Engagement (no grinding) ................................................................................................ Pass Fail
Upshift & Downshift Operation (must be smooth) ................................................................. Pass Fail
Clutch Action (no slippage) ....................................................................................................... Pass Fail
Clutch Pedal Adjustment (check for free play) ............................................................................. Pass Fail
Clutch Spin Down Time (disengage clutch, wait 9 seconds, shift to reverse; no grinding) .......... Pass Fail
Acceleration & Deceleration (no popping out of 2nd & 3rd gears) ........................................ Pass Fail
Reverse Gear (reverse lockout) ................................................................................................ Pass Fail

AUTOMATIC TRANSMISSION
Shift Lever Detent Button ........................................................................................................ Pass Fail
Gear Engagement .................................................................................................................. Pass Fail
Smooth Shifts ................................................................. Pass Fail
Ability to Shift Manually .................................................... Pass Fail
Torque Converter Slippage .................................................. Pass Fail
Throttle Acceleration Kickdown ........................................... Pass Fail
Reverse ............................................................................... Pass Fail

REAR AXLE
Check for Excessive Axle or Wheel Bearing Noise ......................... Pass Fail
Check for Universal Joint Noise & Driveshaft Vibration ................. Pass Fail
Check for Positraction Chatter ................................................ Pass Fail

BRAKES
Check for Squeal & Rotor Pulsation .......................................... Pass Fail
ABS Brakes ........................................................................ Pass Fail
Check for Pull to Left or Right ................................................ Pass Fail
Check Brake Pedal Travel & Power Assist .................................. Pass Fail

STEERING & HANDLING
Steering Wheel Center ........................................................ Pass Fail
Tracking Ability (check for left or right wander, account for road crown) Pass Fail
Ability in Right & Left Turns ............................................... Pass Fail
Check for “Shimmy” & Excessive Free Play in Steering Wheel .......... Pass Fail
Check for Wheel Balance .................................................... Pass Fail

GENERAL PERFORMANCE
Check for Excessive Rattles .................................................. Pass Fail
Check for General Tightness of Vehicle (does it shake & rattle over bumps, etc.) Pass Fail
Check for Excessive Wind Drafts Due to Improper Side Window Fit or Top Sealing Pass Fail

FOLLOWING ROAD TEST
Automatic Transmission Parking Detent (without park brake assist) .... Pass Fail
Automatic Transmission Driveline “Clunk” (shifting from D to R, indicating faulty U-joints) Pass Fail
Parking Brake Ability (in neutral; hill or slow roll) ....................... Pass Fail
Power Steering Ability While Stopped (check for excessive pump/belt noise while turning) Pass Fail
Check for “Dieseling” *(STOP ENGINE)* .................................. Pass Fail
Check Headlamp Remind Buzzer (ign. off, light sw. on, park & headlamps) Pass Fail
Note Time of Day on Clock Since Initial Check & Notation .......... Pass Fail
Check for Closed Hood ....................................................... Pass Fail
Check for Engine Oil, Gas, or Coolant Leaks .............................. Pass Fail
Check for Power Steering Pump & Rack & Pinion Leaks .......... Pass Fail
Check for Brake Master Cylinder Leaks (underhood & underdash) & Wheel Caliper Leaks) Pass Fail
Check for Transmission Leaks ............................................... Pass Fail
Check for Rear Axle Leaks (pinion seal) ................................ Pass Fail
Check ECM (jump terminals A & B to activate trouble code system) Pass Fail
Verify No ECM Trouble Codes Stored .................................. Pass Fail
Has Anything Fallen Off or Come Loose? ................................. Pass Fail
Note Any Unusual Occurrences During Test ........................... Pass Fail
Any Necessary Rechecks .................................................... Pass Fail

END OF TEST
Performance Verifier: ........................................................... Test: PASS ______ FAIL ______
(Signature) ............................................................................
