

# 1964 CORVETTE

## ASSEMBLY INSTRUCTION MANUAL

### CONTENTS

Note: Items in **Black** font pertain to **Convertible (867)** and **Coupe (837)**; **Red** font pertains to **Convertible** only; **Blue** Font pertains to **Coupe** only.

<b>General Information.....</b>	<b>D5<sup>1</sup> – D10</b>
Introduction.....	D5
General Index.....	D6
General Information.....	D7
General Instructions - Bonding.....	D8
General Instructions - Cotter Pins & Engine Belts.....	D9
Stapling Instructions.....	D10
<b>Section 1 - Bolting and Welding.....</b>	<b>D11 – D52</b>
Bolting & Welding Contents.....	D11
Body Riveting & Bonding Contents.....	D12
Lock Pillar ASM.....	D13
Lock Pillar to Brace – Body Lock Pillar.....	D14
Center Plenum Panel to Dash Panel.....	D15
Splash Shields, Inner, Left & Right.....	D16
Windshield, Lower Bonding Strips.....	D17
Hinge Pillar, Front, to Body.....	D18
Instrument Panel Frame.....	D19
Panel Plenum Side to Dash ASM.....	D20
Windshield Corner Frame to Windshield Upper Frame.....	D21
Panel (Firewall) Dash to Body.....	D22
Windshield Corner ASM.....	D23
Hinge Pillar ASM to Door Sill.....	D24
Windshield Frame, Upper & Lower ASM.....	D25
Brace, Under Dash & Birdcage, Right & Left.....	D26
Lock Pillar ASM & Reinforcement, Rear Door Opening.....	D27
Body Hinge Pillar to Bracket & Hinge Pillar ASM.....	D28
Hinge Pillar ASM.....	D29
Gutter ASM to Door Opening.....	D30
Bonding Strips to Roof.....	D31
Roof Bow to Door Opening.....	D32
Underbody - Sill, Brace & Reinforcement.....	D33
Seat Mounting Attachments & Splash Shield Brackets.....	D34
Center Console, Transmission Retainer Plate, Ash Tray Trim Plate Brackets.....	D35
Underbody – Rear Inner Fender Shield, Splash Panel & Filler.....	D36

---

<sup>1</sup> Note: The AIM begins on page “D5”. Pages D1 through D4 do not exist.

Lid Locking Mechanism, Folding Top Compartment.....	D37
Rear Fender Body Panel Bonding to Under Body.....	D38
Lower Rear Body Panel Bonding.....	D39
Rear Body Upper Panel to Support.....	D40
Trim Cover Retainers & Folding Top Brackets.....	D41
Roof Panel to Body.....	D42
Rear Ventilation Duct.....	D43
Insulation, Transmission Tunnel, Underbody.....	D44
Body Checking Dimensions.....	D45 – D52
<b>Section 1 - Assembly.....</b>	<b>D53 – D94</b>
Assembly Contents.....	D53
Instrument Panel Pad & Pillar to Dash Trim Panel & Speaker Grill.....	D54
Console, Shifter & Ash Tray Trim Plates, & Radio Side Panels.....	D55
Glove Compartment.....	D56
Sun Visors & Inside Rear View Mirror.....	D57
Heater & Defroster Controls and Cables.....	D58
Heater & Defroster Cables.....	D59
Air Vents & Control Cables, Left & Right Footwells.....	D60
Roof Blower Motor & Rear Duct.....	D61
Rear Blower Control Cable, Switch & Resistor ASM.....	D62
Instrument Panel Support Rods.....	D63
Windshield Wipers, Motor, Linkage Rods, Switch & Washer Jar.....	D64
Windshield Washer Hoses, Nozzles & Nozzle Adjustment.....	D65
Windshield Wipe Pattern.....	D66
Heater & Defroster Blower ASM.....	D67
Heater Hoses, Clamps & Clips.....	D68
Dash & Firewall Insulation & Sound Deadening Mats.....	D69
Front (Hood) Body Emblem & Cowl Vent Grills.....	D70
Rear View Mirror, Outside.....	D71
Gas Tank Door, Rear Body Emblem, Tail Pipe Bezel & Lower Rear Body Filler Panel.....	D72
Sill Plate, Molding & Carpet Support.....	D73
Folding Top ASM & Top Storage Lid Locking ASM.....	D74
Folding Top Storage Lid & Hinge ASM.....	D75
Folding Top Storage Lid Control & Lock ASM.....	D76
Folding Top Header Weather Strip Installation.....	D77
Folding Top Side Rail Weather Strip Installation.....	D78
Folding Top Header Lock & Striker ASM.....	D79
Carpets & Covers.....	D80
Carpets.....	D81
Carpets.....	D82
Folding Top Header & Cloth Installation.....	D83
Weather Stripping Body, Hinge Pillar & Upper Door Opening.....	D84
Rear Window Glass & Reveal Moldings.....	D85
Seat Belts.....	D86
Windshield, Interior Garnish Moldings & Trim.....	D87
Back Window & Interior Door Moldings, Head Liner & Dome Lamp.....	D88

Rear Body & Luggage Compartment Trim.....	D89
Folding Top Assembly and Installation Procedures.....	D90
Windshield Glass Trim & Molding.....	D91
Windshield Glass Trim & Molding.....	D92
Insulation, Front (Floorboard) & Rear (Luggage Compartment).....	D93 & D94
<b>Section 1 - Sealing.....</b>	<b>D95 – D98</b>
Sealing Contents.....	D95
Door Opening.....	D96
Lock Pillar.....	D97
Hinge Pillar.....	D98
<b>Section 1 - Seats.....</b>	<b>D99 – D102</b>
Seats Contents.....	D99
Seat Back Cushion Assembly.....	D100
Seat Cushion Assembly.....	D101
Seat Assembly & Installation.....	D102
<b>Section 1 – Doors.....</b>	<b>D103 – D117</b>
Doors Contents.....	D103
Door Assembly.....	D104 & D105
Door Vent Window & Molding.....	D106
Door Window Mechanism.....	D107
Door Hinge.....	D108
Door Latch & Lock Mechanism.....	D109
Door Outer Panel.....	D110
Door Handle & Lock Cylinder.....	D111
Door Lock Striker ASM.....	D112
Door Window Run & Seal ASM.....	D113
Door Weather Strip.....	D114
Door Vent Window.....	D115
Door Interior Trim Panel.....	D116
Door Access Covers.....	D117
<b>Section 1 – Body Mounting.....</b>	<b>D118 – D120</b>
Body Mounting Contents & Number 1 Body Mount.....	D118
Number 3 & 4 Body Mounts & Inboard Mounting.....	D119
Number 1 & 2 Body Mounts.....	D120
<b>Section 2 – Frame.....</b>	<b>D121</b>
Frame Assembly.....	D121
<b>Section 3 – Front Suspension.....</b>	<b>D122 – D128</b>
Front Suspension Contents.....	D122
Upper & Lower Control Arm.....	D123
Steering Knuckle & Front Wheel Hub ASM, Studs & Lower Control Arm Bumper.....	D124
Shock Absorber, Upper Control Arm Bumper & Front Spring Chart.....	D125

Stabilizer Bar.....	D126
Front Trim Heights (Measurements).....	D127
Front Suspension Geometry (Caster, Camber, Toe-in Alignment Specs).....	D128
<b>Section 4 – Rear Suspension.....</b>	<b>D129 – D136</b>
Rear Suspension Contents.....	D129
Propeller & Drive Shafts, Differential Carrier, Spindle Support Arm & Wheel Nuts.....	D130
Spring & Differential Mounting Bracket.....	D131
Strut & Toe-in Adjustment Cam ASM.....	D132
Cross member & Suspension Attaching Parts.....	D133
Shock Absorber & Bumper.....	D134
Rear Trim Heights (Measurements).....	D135
Rear Suspension Geometry (Camber, Toe-in Alignment Specs).....	D136
<b>Section 5 – Brakes (<i>Does not Include Wheel Cylinders</i>).....</b>	<b>D137 – D142</b>
Brake Contents.....	D137
Brake Pedal, Master Cylinder & Bracket.....	D138
Brake Lines, Front & Rear.....	D139 & D140
Parking (Emergency) Brake.....	D141 & D142
<b>Section 6 – Engine, Base 327 Cu. In., 250 HP<sup>2</sup>.....</b>	<b>D143 – D157</b>
Engine Contents.....	D143
Alternator & Bracket.....	D144
Pulleys, Fan & Belt.....	D145
Radiator Hoses, Starter Motor ASM.....	D146
Oil Filler Tube, Dipstick & Oil Filter ASM.....	D147
Distributor, Spark Plug Wires, Ignition Coil, Ignition Shielding.....	D148
Voltage Regulator & Ignition Switch).....	D149
Engine Mounts (Front).....	D150
Engine Mount (Rear) [Under Transmission].....	D151
Fuel Pump, Fuel Line & Exhaust Manifold Heat Riser Valve.....	D152
Carburetor ASM, Vacuum Tube, Hot Air Pipe (To Choke), Valve Cover Label.....	D153
Positive Crankcase Ventilation System, Air Filter ASM & Flame Arrestor.....	D154
Accelerator Pedal & Interior Linkage.....	D155
Accelerator Linkage (Engine Compartment).....	D156
Accelerator Pedal & Linkage Adjustment Instructions.....	D157
<b>Section 7 - Transmission &amp; Shift Linkage (3 Speed Manual) &amp; Clutch Pedal.....</b>	<b>D158 – D163</b>
3 Speed Manual Transmission, Shift Linkage & Clutch Pedal Contents.....	D158
3 Speed Manual Transmission Shift Linkage.....	D159
3 Speed Manual Transmission Shift Linkage Adjustment.....	D160
Clutch Control Shaft & Release (Throw-out) Bearing.....	D161
Clutch Pedal ASM & Clutch Linkage.....	D162
Clutch Pedal Dimensions (Free Travel Adjustment Guideline).....	D163

---

<sup>2</sup> Note: Some information in Section 6 applies to vehicles equipped with optional (L75, L76 & L84) engines. Section 6 includes Alternator, Voltage Regulator and Ignition Switch.

<b>Section 8 – Fuel &amp; Exhaust System<sup>3</sup></b> .....	<b>D164 – D171</b>
Fuel & Exhaust Contents.....	D164
Exhaust System.....	D165 & D166
Tail Pipe & Shield.....	D167
Fuel Tank Support Bar & Fuel Gauge Sending Unit.....	D168
Fuel Tank.....	D169
Fuel Line (Tank to Pump).....	D170
Fuel Tank Filler Neck & Cap.....	D171
<b>Section 9 – Steering</b> .....	<b>D172 – D176</b>
Steering Contents.....	D172
Steering Gear & Linkage.....	D173
Steering Shock Absorber (Damper) & Brackets.....	D174
Steering Jacket (Column) & Support Assembly.....	D175
Steering Wheel.....	D176
<b>Section 10 – Wheels &amp; Tires</b> .....	<b>D177 – D180</b>
Wheels & Tires Contents.....	D177
Spare Tire Stowage.....	D178 & D179
Spare Tire Stowage Lock.....	D180
<b>Section 11 – Front End (Body, Grill, Radiator Shroud, Hood &amp; Latches, &amp; Emblems).....</b>	<b>D181 – D194</b>
Front End Contents.....	D181
Inner Fender Skirt, Splash & Dust Shields & Seals (Weather Stripping).....	D182
Inner Fender Skirt & Outer Splash Shield.....	D183
Radiator, Shroud ASM, Hoses & Clamps.....	D184
Radiator Support, Overflow Tank, Support Brackets.....	D185
Grill Molding.....	D186
Grill & Bracket.....	D187
Grill Assembly.....	D188
Upper & Lower Radiator Grill Panels.....	D189
Fender Panels, Upper and Lower.....	D190
Hood, Catch & Hinge.....	D191 & D192
Body Checking (Panel Alignment and Fit).....	D193 & D194
<b>Section 12 – Electrical</b> .....	<b>D195 – D222</b>
Electrical Contents.....	D195
Headlamp Assembly.....	D196 & D197
Headlamp Aiming & Aiming Specifications.....	D198 & D199
Headlamp Opening Brace Rod.....	D200
Horns & Front Parking / Directional Signal Lights.....	D201
Battery.....	D202
Horn Relay (Engine) Wiring Harness.....	D203
Engine Wiring Harness (Alternator, Solenoid, Ignition Coil, & other).....	D204

---

<sup>3</sup> Exhaust System is applicable to base engine only.

Headlamp Wiring Harness.....	D205 & D206
Fuse Panel ASM.....	D207
Instrument Panel Wiring Harness (Including Wiper Motor & Ballast Resistor).....	D208
Instrument Cluster Wiring (Back View).....	D209
Instrument Cluster Wiring (Front View).....	D210
Instrument Cluster & Clock Installation.....	D211
Parking Brake Warning Light, Stop Light & Headlight Dimmer Switch Wiring.....	D212
Directional Signal Mechanism (Steering Column Component).....	D213
Oil Pressure Tube & Odometer Cable.....	D214
Speedometer & Tachometer Cables.....	D215
Rear Wiring Harness, Courtesy Lamp; Blower & Dome Light (Coupe Only).....	D216 & D217
Rear Wiring Harness, Tail Lights, License Lamp & Gas Tank Sending Unit.....	D218
Wiring Diagram – Engine Compartment.....	D219
Wiring Diagram – Fuse Panel ASM.....	D220
Wiring Diagram – Instrument Panel.....	D221
Wiring Diagram – Body & Tail Lamp.....	D222

**Section 13<sup>4</sup>**

<b>Section 14 – Bumpers &amp; Miscellaneous.....</b>	<b>D223 – D240</b>
Bumpers & Miscellaneous Contents.....	D223
Front Bumper.....	D224
Miscellaneous Shipping List.....	D225
Rear Bumper.....	D226
Rear License Plate Housing.....	D227
Adhesive Cement & Sealing Compound (Type & Usage List).....	D228
Plastic Cement (Type & Usage List).....	D229
Plastic Cement & Strip Sealing (Type & Usage List).....	D230
Sealing Primer & Compound (Type & Usage List).....	D231
Jack Stowage.....	D232
Water & Vacuum Water Test.....	D233 & D234
Lubrication (Type & Usage List).....	D235 – D238
Lubrication, Cooling System, Wax & Gasoline.....	D239
Identification Number Plate (TRIM TAG).....	D240

**Alphabetical Option List.....D241**

<b>Section A31 – Electric Windows.....</b>	<b>D242</b>
Electric Windows Contents & Harness, Switches.....	D242
Electric Window Door Mechanism & Wiring Harness.....	D243

<b>Section C07 – Hard Top.....</b>	<b>D244 – D250</b>
Hard Top Contents.....	D244
Hard Top Header Extension.....	D245
Hard Top Reinforcement & Bow.....	D246

---

<sup>4</sup> There is a *Section 13* listed in the original AIM Table of Contents. There is no *Section 13* in the actual manual.

Hard Top Weather Stripping & Molding.....	D247
Hard Top Roof, Rear Window, Weather Stripping & Moldings.....	D248
Hard Top Moldings & Top Attachments.....	D249
Hard Top Locks & Moldings.....	D250
<b>Section C48 – Heater Delete Option.....</b>	<b>D251 &amp; D252</b>
<b>Section C60 – Air Conditioning.....</b>	<b>D253 – D292</b>
Air Conditioning Contents.....	D253
Air Conditioning Heater & Distribution ASM.....	D254
Air Conditioning, Center Outlet, Hoses & Deflector.....	D255
Air Conditioning Left Hand Outlet Duct.....	D256
Air Conditioning Right Hand Outlet Duct & Grill.....	D257
Air Conditioning, Condenser, Receiver & Dehydrator ASM.....	D258
Air Conditioning, Skirt Filler & Wind Shield Washer Reservoir.....	D259
Air Conditioning, Compressor Brackets.....	D260
Air Conditioning Fan Belts, Pulleys, Alternator & Vacuum Fitting.....	D261
Air Conditioning Plenum & Dash Panel Holes.....	D262
Air Conditioning Adapter ASM & Brackets.....	D263
Air Conditioning Heater Hoses & Water Shutoff Valve.....	D264
Air Conditioning Blower & Evaporator.....	D265
Air Conditioning Blower & Evaporator Suction Throttling Valve.....	D266
Air Conditioning Refrigerant Hoses.....	D267
Air Conditioning Fitting & Muffler ASM & Hose Clamp.....	D268
Air Conditioning Battery Tray.....	D269
Air Conditioning Engine Wiring Harness ASM.....	D270 & D271
Air Conditioning Switches & Cables.....	D272 & D273
Air Conditioning Vacuum Hoses.....	D274
Air Conditioning Rear Duct & Air Vent Control Cables.....	D275
Air Conditioning Control Switch Wiring.....	D276
Air Conditioning Wiring Diagram.....	D277
Air Conditioning Stickers & Test Procedure Outline.....	D278
Air Conditioning General Specifications & Procedures.....	D279 – D292
<b>Section G81 – Positraction.....</b>	<b>D293</b>
<b>Section J50 – Vacuum Power Brakes.....</b>	<b>D294 – D296</b>
<b>Section J56 – Heavy Duty Brake Equipment.....</b>	<b>D297 &amp; D298</b>
<b>Section K66 – Transistor Ignition System.....</b>	<b>D299 – D301</b>
<b>Section L75 – 327 V-8 High Performance, 300 H.P Engine.....</b>	<b>D302 &amp; D303<sup>5</sup></b>
<b>Section L76 – 327 V-8 Special High Performance, 365 H.P. Engine.....</b>	<b>D304 – D307</b>

---

<sup>5</sup> Note: High Performance Exhaust System illustrated on page D303 pertains to L75, L76 and L84 engine options.

<b>Section L84 – Fuel Injection, 327 V-8 Special High Performance, 375 H.P. Engine.....</b>	<b>D308</b>
Fuel Injection Contents.....	D308
Fuel Injection Non-Illustrated Parts.....	D309
Fuel Injection Air Cleaner.....	D310
Fuel Injection Accelerator Linkage & Spark Control Housing.....	D311
Fuel Injection Carb Choke Pile, Fuel Filter Pipe & Positive Ventilation Tube.....	D312
Fuel Injection Spark Plug Wire Routing.....	D313
<b>Section M20 – 4 Speed Transmission, Close Ratio.....</b>	<b>D315 – D317</b>
<b>Section M35 – Automatic Transmission.....</b>	<b>D318 – D327</b>
Automatic Transmission Contents.....	D318
Automatic Transmission To Engine.....	D319
Automatic Transmission Installation Procedures.....	D320
Automatic Transmission Oil Cooler Pipes.....	D321
Automatic Transmission Brake Pedal & Neutral Safety Switch Wiring.....	D322
Automatic Transmission Control Linkage & Neutral Safety Switch.....	D323
Automatic Transmission Control Linkage & Neutral Safety Switch Adjustment.....	D324
Automatic Transmission Throttle Control & Modulator Pipe.....	D325
Automatic Transmission Transmission to Carburetor Linkage.....	D326
Automatic Transmission Center Console & Shifter Lever Trim Plates, Ash Tray & Seals.....	D327
<b>Section N03 – 36½ Gallon Gas Tank.....</b>	<b>D328 – D334</b>
36½ Gallon Gas Tank Contents.....	D328
36½ Gallon Gas Tank Wiring.....	D329
36½ Gallon Gas Tank Wheelhouse Filler Panel To Underbody.....	D330
36½ Gallon Gas Tank Fuel Line.....	D331
36½ Gallon Gas Tank Fuel Tank.....	D332
36½ Gallon Gas Fuel Tank Compartment Cover & Jack Stowage.....	D333 & D334
<b>Section N14 – Side Mounted Exhaust.....</b>	<b>D335 – D339</b>
Side Mounted Exhaust Contents.....	D335
Side Mounted Exhaust System.....	D336
Side Mounted Exhaust Cover, Shield & Brackets.....	D337 & D338
Side Mounted Exhaust Modification.....	D339
<b>Section N40 – Hydraulic (Power) Steering.....</b>	<b>D340 – D344</b>
Hydraulic Steering Contents.....	D340
Hydraulic Steering Pump, Belt, Pulleys & Hoses.....	D341
Hydraulic Steering Cylinder & Bracket.....	D342
Hydraulic Steering Valve & Hoses.....	D343
Hydraulic Steering Pump Pulley ASM, Bleed & Oil Level Temperature Chart.....	D344
<b>Section P48 – Knock-Off Aluminum Wheels.....</b>	<b>D345 &amp; D346</b>
<b>Section T86 – Backup Lamps.....</b>	<b>D347 &amp; D348</b>



<b>Section U69 – AM/FM Push Button Radio.....</b>	<b>D349 – D358</b>
AM/FM Radio Contents.....	D349
AM/FM Radio Receiver, Speaker & Wiring.....	D350
AM/FM Radio Antenna Installation.....	D351 & D352
AM/FM Radio Ground Straps.....	D353
AM/FM Radio Capacitors.....	D354
AM/FM Radio Capacitors & Static Collectors.....	D355
AM/FM Spark Plug Shields, Right Hand.....	D356
AM/FM Spark Plug Shields, Left Hand.....	D357
AM/FM Ignition Shield ASM, Upper & Lower, Left & Right.....	D358
 <b>Section Z06 – Special Performance Equipment Contents.....</b>	 <b>D359</b>
Special Performance Equipment Brakes Split Master Cylinder.....	D360