

Classic Auto Restoration, Upgrades, Service & Sales

Princeton, TX 972-736-3560 www.midlifeclassics.com



Galaxie 500

19 64

Restoration Project Portfolio



Midlife Classics inc.

Classic & Exotic Car Restoration and Sales

2351 CR-447, Princeton, TX 75407

Phone: 972-736-3560 Fax: 972-736-3561 www.midlifeclassics.com

Papa Smurf 1965 Galaxy Way Dallas, TX 64352

June 26, 2010

Dear Mr. Smurf,

Now that the date of delivery of your restored Galaxie is finally here, I'd like to take the opportunity the thank you for entrusting your family heirloom to this young upstart company. Your car has the unique distinction of being part of the first batch of restorations to be completed by Midlife Classics, and I hope that you are as happy with what you will be driving home today as I am proud of what we have accomplished.

It has been a long journey for us, but for you the real fun is just about to start. Your patience and financial commitment have resulted in one very fine classic that is destined to pay you back with years of driving pleasure and more "thumbs up" than you'll be able to count.

This portfolio is both a record of the work that has gone into your treasure, and a guide to getting the most out of your investment. I suggest that you review it at your earliest opportunity and keep it in a safe place. If, for any reason, you ever need to take it to another shop, everything a mechanic would need to know about your Galaxie that sets it apart from others is contained within this portfolio. You will also find a CD enclosed. On it you will find a copy of every photo that has been taken of your car along with copies of virtually every document created and every research item collected during the restoration process.

The amount of time we spend on a project like this makes the final "product" seem like a part of the family, and – by extension – so are you. I hope that you can feel free to contact me with any questions you may have and that we will see you periodically over the years as the car needs servicing or when we bump into each other at classic car events. Working with you has been a genuine pleasure.

Warmest regards,

Robert Carroll President Midlife Classics, Inc.



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for

Papa Smurf

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PROJECT PHOTO GALLERY



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PROJECT PHOTO GALLERY

<As Received >



















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Galaxie 500

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PROJECT PHOTO GALLERY Return To Service Project



























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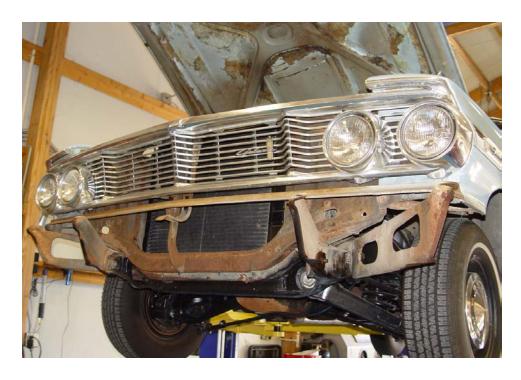
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Galaxie 500

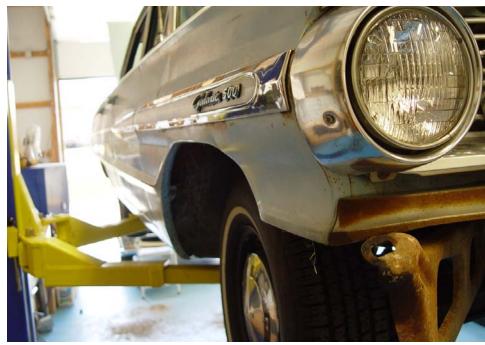
19 64

PROJECT PHOTO GALLERY PHASE I - Disassembly & Strip













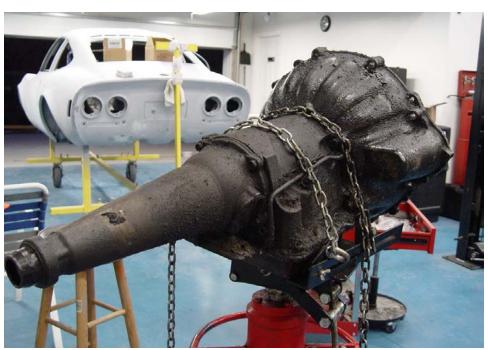






































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Galaxie 500

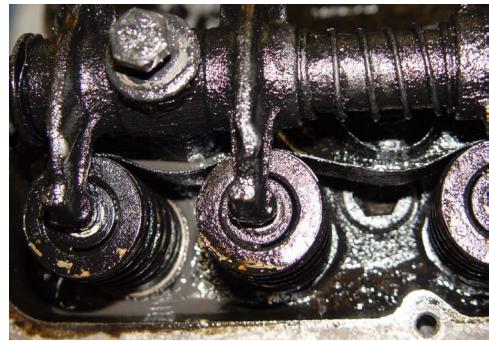
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PROJECT PHOTO GALLERY PHASE II - Body & Parts Preparation











































































































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PROJECT PHOTO GALLERY PHASE III - Reassembly & Testing



































































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PROJECT PHOTO GALLERY

< Completed Project >



























































































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Galaxie 500

19 64

Project Summary



PROJECT SUMMARY 1964 Ford Galaxie 500 For Papa Smurf

This was a "frame-on" restoration project of Papa Smurf's 1964 Ford Galaxie 500. The project was started on November 1_{st}, 2008 and completed on June 23_{rd}, 2010. Delivery to Mr. Smurf took place on June 26_{th}, 2010 with an odometer reading of 9708.9 miles.

OBJECTIVE: Mr. Smurf's desire was to restore the car to be capable of providing service as a safe and reliable "weekend cruiser" with enough attention to detail to be capable of participating in local car shows without any intention of being competitive, yet still be proud of the car's appearance.

SCOPE: This was a bare-metal, "frame-on" restoration. Mechanical restoration had been previously performed by Midlife Classics during the spring of 2008 as part of the car's "Return to Service" project. That project included a rebuild of the car's front and rear suspension, complete brake system and the engine's fuel, cooling and ignition systems. After seeing a summer of road service, it was retuned to Midlife Classics in October of 2008 for the rest of the restoration to be completed.

This restoration included the removal of all body panels, lights, glass, rubber weatherstripping, and trim pieces prior to sodablasting the car's body, engine compartment, and trunk down to bare metal. All bodywork was performed over rust-free metal. The interior was removed for replacement of the carpet, the headliner and refurbishing of all painted trim items.

The engine was not rebuilt. However, in order to fix an oil leak, the intake manifold was removed. Once the engine was "opened up", it was found to be caked with excessive amounts of sludge and chunks of carbon. So, the oil pan was removed and the entire engine was cleaned of sludge and debris as well as possible, flushed out with kerosene prior to reassembly and painting. The transmission was not rebuilt, but was externally cleaned and refinished. The rear axle had already received new axle

bearings and seals during the Return to Service project. The rear axle's pinion seal had been a problem, so the yoke was sleeved and the seal replaced.

Due to prior damage history - much of which was hidden by prior repairs - the right side of the car required extensive work. Rust had taken its toll on the metal beneath much of the bodywork. The right front fender was replaced with a salvageable one from a donor car. The right front door was re-skinned with a donor door panel. The right rear door and right rear quarter panel were repaired. Due to extensive rusting at the hinge mounting points, the trunk lid was also replaced with one that was repairable.

A two-stage basecoat/clearcoat urethane paint was applied, then colorsanded and buffed. The level of finish was dictated by the car's primary objective of being a weekend cruiser. The interior was treated to a new headliner and carpet. The seat and door panel upholstery was retained as-is. All remaining interior parts were refinished as appropriate. All weatherstripping and window seals were replaced with new reproduction parts where available.

The engine compartment was painted with POR15 Chassis Black. The car's undercarriage was coated with a rubberized undercoating. All suspension components were painted with POR15 Chassis Black during the previous Return to Service project.

The original front and rear bumpers were re-chromed. The stainless steel trim pieces were refinished as necessary to properly compliment the overall appearance of the car.

Virtually every metal part on the car that was not replaced was stripped of all dirt, grease, paint and rust, and then refinished as appropriate.

UPGRADES: The following items/systems were upgraded or modernized to fit the stated project objective.

• **Ignition System: Ignition System:** The points and condenser were replaced with a Pertronix"Ignitor" electronic ignition.

MAJOR SYSTEMS & COMPONENTS: The following listing specifies the actions taken or items used to complete the major systems and components:

• Body & Chassis: The car's exterior body, trunk and bolt-on body components were sodablasted to bare metal. The underbody was coated with a rubberized undercoating. The engine compartment and suspension components were blasted and refinished using POR15 Chassis Black rust-inhibitive coating (during the Return to Service project). The suspension (front and rear) and brake system were rebuilt during the Return to Service project. Following blasting, the exterior body was acid-washed, then coated with a rust-inhibiting etching primer prior. Following necessary bodywork (using Evercoat brand fillers and PPG K38 Hi-Build primer) the entire body was sprayed with a primer/sealer before receiving its color coat. The prepared body was painted using PPG's two-stage (basecoat/clearcoat) "Omni" paint system. The final finish was colorsanded and buffed for best gloss.

- Suspension: During the Return to Service project (spring 2008), the front suspension was rebuilt using all new components except for springs. At that time, the rear suspension received new bushings all around, but retained the original leaf springs. All four shock absorbers were replaced with new units. Following completion and initial test drives, a front end alignment was performed.
- **Steering:** All steering components were replaced with new except for the steering gear box.
- **Brakes:** A full brake system rebuild was performed as part of the Return to Service project in the spring of 2008. All hydraulic components were replaced (master cylinder, wheel cylinders). All four wheel received new brake shoes and freshly turned drums. All rubber hoses were replaced with new.
- **Power Train:** The car's powertrain remains pretty-much unchanged aside from a thorough cleaning-out of the engine and cosmetic refinishing of all the major components.
 - Engine: The original 352 V8 engine has not been rebuilt. The original 4-barrell carburetor was rebuilt. The ignition system retains the original distributor, but it has been upgraded with a Pertronix "Ignitor" electronic ignition system.
 - o Transmission: The original C3 automatic transmission remains as it was when originally received by Midlife Classics with the exception of having been properly serviced (filter & fluid) and replacing the rear seal.
 - Rear Axle: The differential was cleaned, but remains otherwise untouched. Rear axle bearings were replaced. The pinion and rear axle seals were also replaced.
 - o Cooling System: The heater core is new. All hoses are new.
- **Interior:** The interior was refurbished using a new headliner, carpet and dash pad. The original seat upholstery and door panels were retained without refurbishing. The remaining interior components were stripped and refinished as appropriate.
- **Body Seals / Weatherizing:** All rubber seals, gaskets and weatherstripping were replaced with new reproduction replacements where available.

FINAL PRODUCT: The final product of the restoration is ready for the road and should serve its owner well for years to come The car runs and drives nearly as well as you would have expected it to when new. The overall impression is that the car is very solid and free of all the wear and age related symptoms you would expect of a car of this vintage.

SUGGESTED IMPROVEMENTS: While the restoration work that has been performed has resulted in a high quality final product, there are a couple of items that Midlife Classics suggests be considered to improve the overall drivability of this car:

- Carburetor: The original carburetor was rebuilt during the Return to Service project back in spring of 2008. The amount of tar-like fuel residue that was in the carburetor made a proper rebuild nearly impossible. The effects of residual contaminants were evident when the engine was first brought back to life after this restoration. The problem was resolved (for now) by removing the carburetor and clearing out all the internal passages. However, the engine still retains a bad hesitation or "stumbling" just off of idle which makes taking off from standing starts without stalling somewhat challenging. This is due to the carburetor being jetted for the fuel blends sold back in the 1960s. Today's fuels burn much leaner and the best way to compensate for this is to replace the existing carburetor with a more modern unit that can be properly jetted to burn fuel at the proper mixture.
- **Tires:** The tires currently on the car have exceptionally weak sidewalls. This results in very poor responsiveness and seriously reduced "road feel". Higher grade tires with greater sidewall support will significantly improve overall handling, feel and safety. Wider wheels may also be worth considering.

MIDLIFE CLASSICS COMMITMENT: At Midlife Classics, once we've restored a car, we are committed to seeing that the car and owner enjoy a long and pleasure-filled relationship. We are committed to helping the owner keep the car in top condition throughout its life and welcome every opportunity to perform maintenance and repairs when necessary. If, at any time, there is a question about the operation or condition of any part of the car, we are here to answer any questions and provide whatever assistance is necessary. All parts used in the restoration are covered by the manufacturers' warranties. Furthermore, Midlife Classics warrantees its workmanship for a period of 12 months or 12,000 miles (whichever comes first). This includes any labor related to the replacement of any failed parts covered by manufacturers' warranties during this 12-month/12,000 mile period. Subcontracted services are covered by the subcontracted companies for a period not to exceed Midlife Classics' 12 month / 12,000 mile coverage. Any and all warrantee services are to be performed by Midlife Classics at its facility and/or its subcontractors.



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Galaxie 500

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Project Worksheets

Papa Smurf

1964 Ford Galaxie

Restoration Project

| | PROJECT SUMMA | IRY | | |
|----------------|----------------------|--------|----------|-----------|
| CHARGES | Job Start: | | | 11/1/2008 |
| OHAROLO | SHOP LABOR (by job) | | | |
| | PHASE I | | \$ | 2,775.00 |
| | PHASE II | | \$ | 4,812.50 |
| | PHASE III | | \$ | 4,250.00 |
| | THAGEIN | 0 | \$ | 4,200.00 |
| | DENDING | U | | 400.50 |
| | PENDING SUBLET | | \$ \$ | 162.50 |
| | SUBLET | TOTAL: | Ф \$ | 3,514.50 |
| | DADTO | TOTAL: | | • |
| | PARTS MILEAGE | | \$ | 5,275.73 |
| | SHIPPING | | ¢ | 197.12 |
| | SALES TAX | | \$ \$ | 326.59 |
| | SALES TAX | TOTAL: | \$ | 21,313.94 |
| | | IOIAL. | Ψ | 21,313.94 |
| PAYMENTS RECE | EIVED | | | |
| | 10/31/08 Check #4591 | | \$ | 2,000.00 |
| | 04/08/09 Check #4659 | | \$ | 3,000.00 |
| | 07/25/09 Check #7407 | | \$ | 7,000.00 |
| | 09/29/09 Check #4752 | | \$ | 3,000.00 |
| | 03/26/10 Check #4860 | | \$ | 1,000.00 |
| | 06/26/10 Check #4907 | | \$ | 5,313.94 |
| | | TOTAL: | \$ | 21,313.94 |
| | | | | - |
| CREDITS ISSUED | | | | |
| | | | | |
| | | TOTAL: | \$ | - |
| | | | | |
| BALANCE DUE | | | \$ | 0.00 |

LABOR

Papa Smurf 1964 Ford Galaxie

| | | | | | | LAI | BOR RATE: | | | | | |
|--|-------|--------|--------------|--------|------------|-----|-------------|-------------|-------------|----|-----------|-------------|
| | | HOU | JRS | | | | | JO | B APPLICATI | ON | | |
| DESCRIPTION | BOB | GLENN | CHRIS | TOTAL | PRICE | J | PHASE I | PHASE II | PHASE III | | PENDING | SUBLET |
| Remove Bumpers, Lights Misc Trim | | 7.00 | | 7.00 | \$350.00 | 1 | \$ 350.00 | | | | | |
| Remove Windshield & Backlight Trim | | 3.00 | | 3.00 | \$150.00 | 1 | \$ 150.00 | | | | | |
| Remove Interior Panels and Dash Pad | | 8.50 | | 8.50 | \$425.00 | 1 | \$ 425.00 | | | | | |
| Remove Seats, Carpet, Headliner | | 3.00 | | 3.00 | \$150.00 | 1 | \$ 150.00 | | | | | |
| Remove Engine & Transmission | | 7.00 | | 7.00 | \$350.00 | 1 | \$ 350.00 | | | | | |
| Sodablast/Strip Body & Engine Bay | | 27.00 | | 27.00 | | 1 | \$ 1,350.00 | | | | | 1 |
| Degrease & Clean Transmission | | 2.00 | | 2.00 | \$100.00 | | Ψ 1,000100 | \$ 100.00 | | | | |
| Disassemble/Clean/Paint/Reassemble En | n | 52.50 | | 52.50 | \$1,312.50 | 2 | | \$ 1,312.50 | | | | 1 |
| Paint Engine Bay | 9 | 4.00 | | 4.00 | \$200.00 | | | \$ 200.00 | | | | |
| · · | | | | | \$200.00 | | | ¥ ====== | | | | |
| Undercoat Chassis | | 4.00 | | 4.00 | , | | | \$ 200.00 | | | | |
| Primer/Sand/Prep Body for Paint | | 267.50 | | 267.50 | \$3,000.00 | 2 | | \$ 3,000.00 | | | | |
| Sublet on RH Doors, Fender & Decklid | | | | 0.00 | \$1,000.00 | 0 | | | | | | \$ 1,000.00 |
| Load & Transport to/from Paint Shop | | | 2.00 | 2.00 | \$100.00 | | | | | | | |
| Paint Finish Coat (sublet) | | | | 0.00 | \$2,500.00 | | | | | | | \$ 2,500.00 |
| Re-Hang & Adjust Doors | 2.00 | | 4.00 | 6.00 | \$300.00 | | | | \$ 300.00 | | | |
| Replace Door/Side Window Rubber | | | 8.00 | 8.00 | \$400.00 | 3 | | | \$ 400.00 | | | |
| Replace Windshield/Rear Glass Rubber | | | 4.00 | 4.00 | \$200.00 | 3 | | | \$ 200.00 | | | |
| Install Engine & Transmission | | | 3.00 | 3.00 | \$150.00 | | | | \$ 150.00 | | | |
| Repair Misc Trim Dents & Dings | | | 15.00 | 15.00 | \$750.00 | 3 | | | \$ 750.00 | | | |
| Steam Clean OR Replace Carpet | | | 1.50 | 1.50 | \$75.00 | 3 | | | \$ 75.00 | | | |
| Install Exhaust System | | | 1.00 | 1.00 | \$50.00 | 3 | | | \$ 50.00 | | | |
| Reinstall Bumpers & Brackets | | | 4.00 | 4.00 | \$200.00 | 3 | | | \$ 200.00 | | | |
| Reinstall Front Grill & Lights | | | 1.00 | 1.00 | \$50.00 | 3 | | | \$ 50.00 | | | |
| Reinstall Front Clip | | | 3.00 | 3.00 | \$150.00 | 3 | | | \$ 150.00 | | | |
| Refinish Interior Trim Items | | | 10.00 | 10.00 | \$500.00 | 3 | | | \$ 500.00 | | | |
| Install New Headliner | 4.00 | | 1.00 | 5.00 | \$250.00 | 3 | | | \$ 250.00 | | | |
| Reinstall Interior | | | 5.00 | 5.00 | \$250.00 | 3 | | | \$ 250.00 | | | |
| Reinstall Trim & Lights | | | 5.00 | 5.00 | \$250.00 | 3 | | | \$ 250.00 | | | |
| Replace Carpet Underlayment | | | 1.00 | 1.00 | \$50.00 | 3 | | | \$ 50.00 | | | 1 |
| Misc. Components Refinishing | | | 10.00 | 10.00 | \$500.00 | | | | \$ 500.00 | | | 1 |
| Refinish Trunk, Install Liner & Sideboards | 1.50 | | | 1.50 | \$75.00 | 3 | | | \$ 75.00 | | | |
| Paint & Install New Dashboard | 2.50 | | | 2.50 | \$125.00 | | | | | | \$ 125.00 | |
| Install Glove Box Liner | 0.25 | | | 0.25 | \$12.50 | | | | | | \$ 12.50 | |
| Replace Trunk Lock Bezel | 0.50 | | | 0.50 | \$25.00 | | | | | | \$ 25.00 | |
| TX Safety Inspection - Labor | 1.00 | | | 1.00 | \$50.00 | 3 | | | \$ 50.00 | | | |
| TX Safety Inspection | | | | 0.00 | \$14.50 | | | | | | | \$ 14.50 |
| TOTAL: | 11.75 | 385.50 | 78.50 | 90.25 | | | | | | | | |

PARTS LISTING Papa Smurf 1964 Ford Galaxie

| QTY | DESCRIPTION | ITEM NO. | VENDOR | PRICE | SHIP | TOTAL |
|------|---|--------------------------------------|---------------------------|---------------------------|---------|----------------------|
| | Drivers Armrest | AR12LB | Dearborn | \$39.95 | | \$39.95 |
| | Lower Radiator Air Deflector Seal | C4AZ-8349A | Autokrafters | \$19.95 | | \$19.95 |
| | Hood-to-Cowl Seal | C3AZ-16740A | Autokrafters | \$7.95 | | \$7.95 |
| | Windshield Weatherstrip Beltline Weatherstrip | C2AZ-6203110A FD120 | Autokrafters Autokrafters | \$79.95 \$109.95 | | \$79.95 \$109.95 |
| | Door Weatherstrip - Front | C3AZ-5420530PR | Autokrafters | \$99.95 | | \$99.95 |
| | Door Weatherstrip - Rear | C4AZ-5425324 | Autokrafters | \$99.95 | | \$99.95 |
| | Vent Window Weatherstrip | WE63A | Dearborn | \$119.95 | | \$119.95 |
| | Vent Window Vertical Seal | WE60AV | Dearborn | \$24.95 | | \$24.95 |
| | Lower Front Vent Seals | C3AZ-65222A78A | Autokrafters | \$2.95 | | \$2.95 |
| | Back Edge Vent Seals | C3AZ-6220568-9A | Autokrafters | \$24.95 | | \$24.95 |
| | Door Glass Run Weatherstrip - Lock Side Door Glass Run Weatherstrip - Div Bar Side | C3AZ-6221550PR C3AZ-7621538 | Autokrafters Autokrafters | \$39.95 \$23.95 | | \$39.95 \$47.90 |
| | Trunk Weatherstrip | C3AZ-7021030 C3AZ-6243720L | Autokrafters | \$23.95 | | \$22.95 |
| | Door Bumpers - Rear | RDB101A | Dearborn | \$4.95 | | \$4.95 |
| 1.00 | Door Bumpers - Front | RDB101B | Dearborn | \$4.95 | | \$4.95 |
| | Rear Window Weatherstrip | WE15E | Dearborn | \$79.95 | | \$79.95 |
| | Gas Pedal Rod Seal | GPS12 | Dearborn | \$2.95 | | \$2.95 |
| | Heater Seal Kit | WE29 | Dearborn | \$24.95 | | \$24.95 |
| | Hood Bumper - Rear to Fender Top | HB13 | Dearborn Autokrafters | \$5.95 | | \$5.95 |
| | Hood Bumper - Side of Hood Replacement Dash Pad (paint reg.) | C3AZ-16758A DP63A | Autokrafters Dearborn | \$5.95 \$299.95 | | \$5.95 \$299.95 |
| | Colormatch Interior Paint - It/drk turquoise | PA1060/PA10602 "O" n | | \$299.95 \$14.95 | \$33.95 | \$123.65 |
| | Vynl Prep Spray | PA107 | Dearborn | \$9.95 | ψου.σο | \$9.95 |
| | Carpet Kit (aqua? Blue?) | CA63A4 (color code) | Dearborn | \$199.95 | | \$199.95 |
| | Trunk Mat (Plaid - Basket Weave on B/O) | TMA63-PL | Dearborn | \$114.95 | | \$114.95 |
| | Battery Tray | BT10 | Dearborn | \$25.95 | | \$25.95 |
| | Radio Antenna | AW-US13 | Autozone | \$19.99 | | \$19.99 |
| | Transmission Vacuum Modulator Headliner (Parchment) (It blue per cust) | Check C4 or FX/MX HK63C-PA | Autozone Dearborn | \$19.99 \$124.94 | | \$19.99 \$124.94 |
| | Windlace (35 ft. required) | WL100-AQ (agua Cloth) | | \$3.75 | \$49.95 | \$124.94 \$181.20 |
| | Windlace Retainer | BMC76 | Dearborn | \$4.95 | Ψ-10.00 | \$59.40 |
| | Wiring Straps | AK114B | Autokrafters | \$10.00 | | \$10.00 |
| | Windo-Weld Sealer | 3M08606 | Autokrafters | \$24.94 | \$9.95 | \$34.89 |
| | Roof Rail Weatherstrip Screws | PE766 | Mustangs Unlt'd | \$8.69 | \$8.96 | \$26.34 |
| | Door Handle Gaskets (pr) | DHG10 | Dearborn | \$12.44 | | \$24.88 |
| | Sodablasting Media Carburetor Mounting Gasket | 60091 | Stripco | \$27.50 \$4.95 | | \$412.50 \$4.95 |
| | Easy-Off Oven Cleaner | 00091 | Big G | \$4.95 \$5.49 | | \$5.49 |
| | Hi Build Primer | | English | \$217.00 | | \$434.00 |
| | Catalyst - Hi Build Primer | | English | \$24.38 | | \$24.38 |
| | Etch Primer | | English | \$53.25 | | \$53.25 |
| | Z-Grip Body Filler | | English | \$25.81 | | \$25.81 |
| | Hi Build Primer - Aerosol Can | 14444 00505 | English | \$24.38 | | \$146.28 |
| | Seam Sealer Undercoating | MMM-08505 | Big G | \$20.84 \$59.95 | | \$41.68 \$59.95 |
| 2.00 | POR15 Chassis Paint | | | \$55.00 | | \$110.00 |
| | POR15 Engine Paint | | | \$27.50 | \$20.00 | \$47.50 |
| 2.00 | Primer Serfacer Catalyst | K201 | English | \$88.63 | | \$177.26 |
| | Self-Etch Primer (spray can) | 5111 | English | \$18.56 | | \$18.56 |
| | Extender | DX87 | English | \$61.78 | | |
| | Fender Moulding - Right Front | ECOEE ADT | eBay | \$51.24 | \$15.52 | \$66.76 |
| | Engine Gasket Set Valve Lifter | FS8554PT JB-2083 | Autozone Autozone | \$92.84 \$5.28 | | \$92.84 \$5.28 |
| | Yoke Sleeve | Nat'l Redi-Sleeve #99181 | | \$5.28 \$35.69 | \$5.44 | \$5.28 \$41.13 |
| | Oil Seal (Diff Yoke) | NAT7044NA | Big G | \$13.49 | Ψυ | \$13.49 |
| | 6x9 Speaker | AW-699SP | Autozone | \$19.99 | | \$19.99 |
| 1.00 | Wagner H5001 Sealed Beam Headlight | H5001 | Big G | \$13.23 | | \$13.23 |
| | Transmission Rear Seal | 7692S | Autozone | \$13.32 | | \$13.32 |
| | Instrument Panel Bulbs | 1895 | Big G | \$0.89 | | \$7.12 |
| | Firewall Insulation Set | ICP15/FD108 | Dearborn/AK | \$69.95 | | \$69.95 |
| | Mirror Gasket Emblem Barrel Clips 1/16" | MG102 EBC100 / 378362S | Dearborn Dearborn/AK | \$4.94 \$1.19 | | \$4.94 \$5.95 |
| | Emblem Barrel Clips 3/16" | EBC100 / 3783625 EBC101 / AV11293 | Dearborn/AK Dearborn/AK | \$1.19 \$1.19 | | \$5.95 \$5.95 |
| | Emblem Barrel Clips 1/8" | EBC102 / AV8405 | Dearborn/AK | \$1.19 | | \$4.76 |
| | Plastic Windlace Med/Drk Blue 2.00/1.60 | WL101-MB/WLV-08 | Dearborn/AK | \$2.50 | \$17.95 | \$32.95 |
| | Door Glass Run Weatherstrip - Lock Side | C3AZ-6221550PR | Autokrafters | \$39.95 | \$9.95 | \$49.90 |
| | Rear Door & Quarter Panel Retainer Clip | C4AZ-6229120A | Autokrafters | \$2.50 | | \$12.50 |
| 2.00 | Exhaust Pipe Gaskets | | Big G | \$3.03 | | \$6.06 |

PARTS LISTING

Papa Smurf 1964 Ford Galaxie

| 2.00 | Bumpers - Rechromed | | Best Bumper | \$350.00 | | \$700.00 |
|-------|--|--------------------------|--------------|----------|---------|----------|
| 2.00 | Bumpers - Environmental Fee | | Best Bumper | \$10.50 | | \$21.00 |
| 5.00 | Gasoline | | Allsups | \$3.56 | | \$17.80 |
| 10.00 | Gasoline | | Allsups | \$3.25 | | \$32.50 |
| 1.00 | Seafoam Fuel Treatment | | Big G | \$9.99 | | \$9.99 |
| 1.00 | Glove Box Insert | GBL11 | Dearborn | \$16.19 | | \$16.19 |
| 3.00 | Vacuum Tubing - Windshield Washer | | Big G | \$0.55 | | \$1.65 |
| 1.00 | Windshield Washer Pump | C1AZ-1766A | Autokrafters | \$57.07 | | \$57.07 |
| 1.00 | Windshield Washer Reservoir Bag | C4AZ-17618US | Autokrafters | \$42.79 | | \$42.79 |
| 1.00 | Trunk Lock Bezel | C4AZ-6243603 | Autokrafters | \$74.94 | | \$74.94 |
| | Trunk Filler Boards | FD105 | Autokrafters | \$57.44 | \$25.45 | \$82.89 |
| 4.00 | Trunk Spatter Paint | DM100 | Autozone | \$10.49 | | \$41.96 |
| 1.00 | Horn Relay | STDHR119 | Big G | \$16.28 | | \$16.28 |
| 1.00 | Skylight Blue Basecoat - pint for touch-up | MBCAMIX | English | \$37.75 | | \$37.75 |
| 1.00 | License Plate Lamp Bulb | WAG90 | Inventory | \$0.99 | | \$0.99 |
| 3.00 | Clear Tubing - Coolant Overflow | | Inventory | \$0.79 | | \$2.37 |
| 1.00 | Headliner Insulation | | Inventory | \$29.95 | | \$29.95 |
| 5.00 | Shell Rotella T Motor Oil | | Inventory | \$5.62 | | \$28.10 |
| 2.00 | Antifreeze | | Inventory | \$12.49 | | \$24.98 |
| 9.00 | Transmission Fluid | | Inventory | \$5.44 | | \$48.96 |
| 6.00 | SS Pan Screws - Trunk Filler Boards | #12 x 3/4" - P/N 2-1532 | Inventory | \$0.45 | | \$2.70 |
| 9.00 | SS Oval Head Screws - Dash Pad Retainer | #8 x 1 1/2" - P/N 2-1468 | Inventory | \$0.75 | | \$6.75 |
| 2.00 | SS Oval Head Screws - Side View Mirror | #8 x 3/4" - P/N 2-1418 | Inventory | \$0.29 | | \$0.58 |
| | | | | \$0.00 | | |
| | | | | \$0.00 | | |
| | | | | | | |
| | | | TOTAL: | | | |



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Galaxie 500

19 64

Project Checklists

| SYSTEM | ITEM | TEST | PASS | FAIL | BY | NOTES |
|---------|--|-------------------------------------|------|------|----|-------|
| | - | | | | | |
| SUSPENS | SION & STEERING | | | | | |
| | Ball Joints | Check Bolts Tight & Lubed | Х | | CS | |
| | Tie Rod Ends | Check Tight & Lubed | Х | | CS | |
| | Control Arm Pivots | Check Tight & Lubed | Х | | CS | |
| | Steering Rack/Box | Check All Tight & Lubed | Х | | RC | |
| | Axle Bearings & Nuts | Check Adj & Grease. Rotates Freely | Х | | RC | |
| | Rear Springs | Check Bolts & Seats | Х | | RC | |
| | Shocks | Check Bolts Tight | Х | | CS | |
| | Steering Wheel | Check Attach & Centered | Х | | CS | |
| | Power Steering | Check Leaks, Belt, Fluid | N/A | | | |
| | Suspension Action | Check Range & Damping | Х | | RC | |
| | Steering Action | Check Lock-to-Lock | Х | | RC | |
| | - to the same of t | | | | | |
| | | | 1 | | | |
| RAKES | | | | | | |
| | Front Pads/Shoes | Check Wear, Fittment, Adjustment | Х | | RC | |
| | Rear Pads/Shoes | Check Wear, Fittment, Adjustment | X | | RC | |
| | Front Rotors/Drums | Check Wear & Secure | X | | RC | |
| | Rear Rotors/Drums | Check Wear & Secure | X | | RC | |
| | Reservoir | Check Fluid Level | X | | CS | |
| | Booster | Check Vacuum Connections | N/A | | " | |
| | Warning System | Check Switch Connected & Centered | X | | CS | |
| | Pedal | Check Pedal Travel & Feel | X | | CS | |
| | Emergency/Parking | Check if Holds Vehicle & Releases | X | | RC | |
| | Braking Action | Road Test, Check for Pull & Locking | X | | RC | |
| | Braking Action | Road Test, Check for Full & Locking | | | KC | |
| | | | | | | |
| | SYSTEM | | | | | |
| OOLING | Hoses | Check for Aging, Splits & Clamps | Х | | CS | |
| | Routing | Verify Hose Routing is Correct | X | | CS | |
| | Coolant | Check Radiator Full & Proper Mix | X | | CS | |
| | | · | | | | |
| | Leaks | Inspect for Leaks | X | | CS | |
| | Radiator Cap | Verify Cap Secure & Proper Press. | X | | CS | |
| | Overflow | Verify Hose/Container in Place | X | | CS | |
| | Monitoring | Verify Any Gauges/Lights Connected | X | | CS | |
| | Pressure Test | Inspect for Leaks | Х | | CS | |
| | | · · | | | | |

| ЕМ | ITEM | TEST | PASS | FAIL | BY | NOTES |
|------|-----------------------|-----------------------------------|------|------|------|-------|
| | | | | | | |
| S | | | | | | |
| | Engine Oil | Check Level & Correct Fluid | X | | CS | |
| | Transmission Fluid | Check Level & Correct Fluid | Х | | CS | |
| | Power Steering Fluid | Check Level & Correct Fluid | N/A | | | |
| | Coolant | Check Level & Correct Fluid | X | | CS | |
| | Brake Fluid | Check Level & Correct Fluid | Х | | CS | |
| | Rear Axle Gear Oil | Check Level & Correct Fluid | Х | | CS | |
| | Windshield Washer | Check Level & Correct Fluid | Х | | RC | |
| | Fuel | Add 5+ Gallons for Testing | Х | | CS | |
| | | | | | | |
| TRIC | CAL SYSTEM | | | | | |
| | Pre-Powered Overviev | Verify Connections Match Diagrams | Х | | CS | |
| | - Alternator | Verify Connections Correct | Х | | CS | |
| | - Ignition Coil | Verify Connections Correct | Х | | CS | |
| | - Spark Plug Wires | Verify Connections Correct | Х | | CS | |
| | - Horn(s) | Verify Connections Correct | Х | | CS | |
| | - Oil Pressure Sensor | Verify Connections Correct | Х | | CS | |
| | - Water Temp Sensor | Verify Connections Correct | Х | | CS | |
| | - Heat & A/C | Verify Connections Correct | Х | | CS | |
| | - Exterior Lighting | Verify Connections Correct | Х | | CS | |
| | - Gauge Cluster | Verify Connections Correct | Х | | CS | |
| | - Accessories | Verify Connections Correct | Х | | CS | |
| | - Fuse Box/Panel | Verify Fuses Installed & Correct | Х | | CS | |
| | | Ź | | | | |
| | CONNECT BATTERY | CHECK FOR SMOKE! | Х | | CS | |
| | | | | | | |
| | KEY OFF Testing | | | | | |
| | - Parking Lights | Check Proper Operation | Х | | cs | |
| | - Headlights Low | Check Proper Operation | X | | CS | |
| | - Headlights High | Check Proper Operation | X | | CS | |
| | - Tail Lights | Check Proper Operation | X | | CS | |
| | - Brake Lights | Check Proper Operation | X | | CS | |
| | - License Plate Lamp | Check Proper Operation | X | | RC | |
| | - Hazard Flashers | Check Proper Operation | N/A | | | |
| | - Panel Lights | Check Proper Operation | X | | CS | |
| | - Horn(s) | Check Proper Operation | X | | CS | |
| | - Clock | Check Proper Operation | | Х | CS | |
| | - Interior Lighting | Check Proper Operation | Х | | CS | |
| | - Cigarette Lighter | Check Proper Operation | X | | - 55 | |
| | - Olgarette Lightei | Oncok i Toper Operation | | | | |
| | | | | | | |
| | | | | | | |

| SYSTEM | ITEM | TEST | PASS | FAIL | BY | NOTES |
|----------|-------------------------------------|---|------|------|----|--------------------------|
| EL ECTRI | CAL SYSTEM (Continue | ۹) | | | | |
| ELECIRIO | CAL SYSTEM (Continue KEY ON Testing | u) I | | | | I |
| | - Check Above Items | Check Op of Any Failed Key Off Items | N/A | | CS | |
| | - Turn Signals | Check Proper Operation | X | | CS | |
| | - Backup Light(s) | Check Proper Operation | X | | CS | |
| | - Parking Brake Warn | Check Proper Operation | N/A | | Co | |
| | - Charge Gauge/Light | Check Proper Operation | X | | CS | |
| | - Temp Gauge/Light | Check Proper Operation | X | | CS | |
| | - Oil Press Gauge/Light | Check Proper Operation | X | | CS | |
| | - Fuel Gauge | Check Proper Operation | X | | CS | |
| | - Windshield Wiper | Chech Proper Operation | X | | CS | |
| | - Windshield Washer | Check Proper Operation | X | | RC | Added aft. initial chk |
| | - Heater Blower Fan | Check Proper Operation | X | | CS | Added alt. Illitial Clik |
| | - Heater Valve (if elect.) | Check Proper Operation | N/A | | CO | |
| | - A/C Clutch | Check Proper Operation | N/A | | | |
| | - A/C Fan (if separate) | Check Proper Operation | N/A | | | |
| | - Radio & Access | Check Proper Operation | IV/A | Х | CS | |
| | - Ignition Power to Coil | Check Proper Operation | Х | | CS | |
| | - Electric Choke | Check Proper Operation | N/A | | Co | |
| | - Starter Engage | Check Proper Operation | X | | CS | DISCONNECT COIL |
| | - Neutral Safety Switch | Check Proper Operation | X | | CS | |
| | - Neutral Salety Switch | Check Proper Operation | ^ | | CS | Intermittent Problem |
| | | | | | | |
| | | | | | | |
| NGINE | | | | | | |
| INGINE | Electrical Verified | Verify Electrical Checklist Completed | Х | CS | | I |
| | Fluids Verified | Verify Fluids Checklist Completed | X | CS | | |
| | Cooling System Verifed | Verify Cooling Sys Chklst Completed | X | CS | | |
| | Distributor Timing | Verify Static Timing - #1 TDC | N/A | CS | | Pertronix |
| | Accelerator Linkage | Verify Carburetor Opens/Closes | X | CS | | reilionix |
| |) | Verify Choke Function & Fast Idle | X | CS | | |
| | Cold Start System | , , | X | CS | | |
| | Prime Fuel Pump Secure For Start | Open Fuel Line at Pump Inlet to Prime Set Trans to Neutral or Park. Set Brake | X | CS | | |
| | Secure For Start | Set Trans to Neutral of Park. Set Brake | | CS | | |
| | Otant Francisca | 20 OF COMP PUBLISHED | | | | NO DEVOUNCE |
| | Start Engine | 30-SECOND RUN LIMIT | X | CS | | NO REVVING! |
| | | < CHECK OIL PRESSURE> | Χ | CS | | STOP if Not Good |
| | Check Fluids | | | | | |
| | - Engine Oil | Top Off as Needed | Х | CS | | |
| | - Transmission Fluid | Top Off as Needed Top Off as Needed | X | CS | | |
| | - Power Steering Fluid | Top Off as Needed Top Off as Needed | N/A | 03 | | |
| | | Top Off as Needed | X | CS | | |
| | Coolant | Llon ()tt as Needed | | | | |

| EM | ITEM | TEST | PASS | FAIL | BY | NOTES |
|----|---|---------------------------------------|-------------|------|----|------------------|
| | | | | | | |
| | Continued) | | | | | |
| | Restart Engine | | | | | |
| | - Check Oil Pressure | Verify Oil Pressure Good | X | | CS | STOP if Not Good |
| | - Rough Check Timing | Verify Near Timing (given fast idle) | Х | | RC | |
| | - Check Trans Fluid | Add Fluid As Needed | X | | RC | |
| | - Warm to Op Temp | Use Laser Temp Gauge | Х | | RC | |
| | Verify Cooling Fan | Check Elect Cooling Fan Function | N/A | | | |
| | Verify Choke Opens | Check Choke Flap and Normal Idle | X | | RC | |
| | - Set Ignition Timing | Adjust As Per Timing Specifications | Х | | RC | |
| | - Set Idle | Adjust As Per Specifications | Х | | RC | |
| | - Recheck Timing | Adjust Per Specs with Proper Idle | Х | | RC | |
| ŀ | Verify Coolant Temp | Confirm Temp Maintained w/in Spec. | Х | | RC | |
| | - Shutdown | Turn Off Engine | Х | | RC | |
| ŀ | - Check for Leaks | Check Engine & Cooling Sys for Leaks | Х | | CS | |
| | | | | | | |
| ŀ | Recheck Fluids | | | | | |
| | - Engine Oil | Top Off as Needed | Х | | CS | |
| | - Transmission Fluid | Top Off as Needed | Х | | RC | |
| | - Power Steering Fluid | Top Off as Needed | N/A | | | |
| | - Coolant | Top Off as Needed | Х | | CS | |
| | | | | | | |
| ŀ | Restart Engine | | | | | |
| ŀ | - Check Oil Pressure | Verify Oil Pressure Good | Х | | RC | STOP if Not Good |
| | - Warm to Op Temp | Use Laser Temp Gauge | Х | | RC | |
| | - Verify Cooling Fan | Check Elect Cooling Fan Function | N/A | | | |
| | - Verify Choke Opens | Check Choke Flap and Normal Idle | Х | | RC | |
| | - Verify Idle Speed | Adjust As Per Specifications | Х | | RC | |
| | - Verify Ignition Timing | Adjust As Per Timing Specifications | Х | | RC | |
| | - Recheck Idle Speed | Adjust As Per Specifications | Х | | RC | |
| | - Adjust Idle Mixture | Adjust Per Specs with Proper Idle | Х | | RC | |
| | - Recheck Idle Speed | Adjust As Per Specifications | Х | | RC | |
| | - Verify Coolant Temp | Confirm Temp Maintained w/in Spec. | Х | | RC | |
| | - Cycle Transmission | Move Through Gears to Circulate Fluid | Х | | RC | |
| | - Check Trans Fluid | Add Fluid As Needed | Х | | RC | |
| | - Shutdown | Turn Off Engine | Х | | RC | |
| | | Ĭ | | | | |
| | | | | | | |
| | | | | | | |

ENGINE RUN COMMENTS

Fuel pump required disassembly and cleaning before it would operate.

| SYSTEM | ITEM | TEST | PASS | FAIL | BY | NOTES |
|---------|-----------------------|-----------------------------------|------|------|----|---------------------|
| | | | | | | |
| i | CONVENIENCE | | | | | |
| | Seat Belts | Check Secure & Functional | Х | | CS | |
| | Seats | Secure & Move Fore/Aft Freely | Х | | CS | |
| | Mirrors | Verify Secure & Proper View | Х | | RC | |
| | Sun Visors | Check Secure & Functional | Х | | CS | |
| | Spare Tire & Tools | Check Present & Secured | Х | | RC | |
| | Headlight Alignment | Align High and Low Beams | Х | | RC | |
| | | | | | | |
| | | | | | | |
| ODY & T | RIM | | | | | |
| | Doors | Check Movement, Latches & Locks | Х | | RC | |
| | Side Windows | Check Up/Down Movement | Х | | RC | |
| | Vent Windows | Check Open/Close Movment & Latch | Х | | RC | |
| | Windshield | Check Clean & Leak Free | Х | | RC | |
| | Rear Window | Check Clean & Leak Free | Х | | RC | |
| | Trunk/Boot | Check Open/Close & Latch/Lock | Х | | RC | |
| | Hood/Bonnet | Check Open/Close & Latch/Lock | Х | | RC | |
| | Convertible Top | Check Open/Close, Latch & Leaks | N/A | | | |
| | Trim & Badges | Check Installed, Correct & Secure | Х | | RC | |
| | Body Panel Alignment | Check & Adjust as Needed | Х | | RC | |
| | Paint | Touch Up As Needed, Buff to Shine | Х | | RC | |
| | Headliner | Secure & Taut | Х | | RC | As taut as possible |
| | Carpet | Secure & Free of Interference | Х | | RC | , |
| | Interior Side Panels | Secure & Free of Interference | Х | | RC | |
| | Door Weatherstripping | Check secure | X | | RC | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| SYSTEM | ITEM | TEST | PASS | FAIL | BY | NOTES |
|---------|-------------------------|---------------------------------------|-------------|------|----|---------------------|
| | | | | | | |
| ROAD TE | | | | | | |
| | Verify All Secure | Check for Loose & Missing Parts/Tools | Χ | | RC | |
| | Verify Documents | Registration & Insurance on Board? | X | | RC | |
| | License Plates | Verify Properly Secured Front & Rear | X | | RC | |
| | Document Mileage | Indicate Odometer Miles in Notes> | Х | | RC | 9648.5 |
| | Start/Warm Engine | Allow to Reach Operating Temp | Х | | RC | |
| | Check Tire Pressured | Verify Pressures to Specifications | Х | | RC | |
| | Inspect Everything | Visually Inspect for Leaks & Problems | Х | | RC | |
| | Check Transmission | Circulate Through Gears Verify Ops | Х | | RC | |
| | Check Brakes Hold | Verify Brakes Hold and Stop Rolls | Х | | RC | |
| | Check Parking Brake | Verify Holds at Idle When In Drive | Х | | RC | |
| | Electrical Load | Check Idles With Full Electrical Load | Χ | | RC | |
| | | | | | | |
| | First Drive | 45 MPH MAXIMUM | | | | |
| | - Engine | Noises, Smoothness, Misses, Power? | Х | | RC | |
| | - Transmission | Shifts Through Gears & Reverse | Х | | RC | |
| | - Brakes | Light - Feel, Straight, Predictable | Х | | RC | |
| | - Carburetion | Hesitation, Stumbling, Backfires? | | Х | RC | Rough runng. Bkfire |
| | - Steering | Correct, Precise, Sloppy, Chatter? | Х | | RC | Slow to respond |
| | - Suspension | Smooth, Noisy, Bottoming, Wallowing? | Х | | RC | · |
| | - Noises | Rattles, Knocks, Sqeeks, Squeals? | Х | | RC | |
| | - Gauge Readings | Temp, Oil Pressure, Charging, Etc. | Х | | RC | |
| | - Post Drive Inspection | Check for Leaks & Loose Items | Х | | RC | |
| | · | | | | | |
| | Second Drive | 60 MPH MAXIMUM | | | | |
| | - Engine | Noises, Smoothness, Misses, Power? | Х | | RC | |
| | - Transmission | Shifts Through Gears & Reverse | Х | | RC | |
| | - Brakes | Light - Feel, Straight, Predictable | Х | | RC | |
| | - Carburetion | Hesitation, Stumbling, Backfires? | | Х | RC | Off-Idle Hesitation |
| | - Steering | Correct, Precise, Sloppy, Chatter? | Х | | RC | |
| | - Suspension | Smooth, Noisy, Bottoming, Wallowing? | Х | | RC | |
| | - Noises | Rattles, Knocks, Sqeeks, Squeals? | Х | | RC | |
| | - Gauge Readings | Temp, Oil Pressure, Charging, Etc. | Х | | RC | |
| | - Post Drive Inspection | Check for Leaks & Loose Items | Х | | RC | |
| | , | | | | | |
| | | | | | | |
| 1 | - | • | | | | _ |

TEST DRIVE COMMENTS

First test drive - very low on power and rough running with lots of backfiring. Cylinders fed by driver's side of carburetor running weak. Disassembled carburetor and cleaned out passages. Much better on second drive, but still has a lean-hesitation just off of idle due to carburetor being jetted too lean. Suggest new (modern) carburetor that can be jetted for today's fuel blends.

Steering is very sluggish due to lack of power steering and tires with mushy sidewalls. Will improve if/when better tires with stiffer sidewalls are installed.

| ITEM | TEST | PASS | FAIL | BY | NOTES |
|----------------------|---|--|--|-------------------------------|-------------------------------|
| VERY DETAILING | | | | | |
| Wash Exterior | Wash As Needed | Х | | RC | |
| Wax/Polish Exterior | Wax/Polish As Needed | Х | | RC | |
| Polish Brightwork | Polish All Chrome & Stainless Trim | Х | | RC | |
| Armorall Tires | Tire-Black or Similar Tire Treatment | Х | | RC | |
| Vacuum Interior | Vacuum Carpet Etc. | Х | | RC | |
| Armorall Interior | Armorall Dash, Seats, Side Panels Etc. | Х | | RC | |
| Clean Windows | Clean Inside/Outside All Windows | Х | | RC | |
| Detail Engine Bay | Clean as Necessary | Х | | RC | |
| Clean/Organize Trunk | Clean & Secure Spare/Tools Etc. | Х | | RC | |
| Detail Undercarriage | Clean Underneath & Check for Leaks | Х | | RC | |
| Check All Fluids | Verify Fluid Levels | Х | | RC | |
| Verify Documents | Registration & Insurance on Board? | Χ | | RC | |
| Document Odometer | Record Total Miles at Delivery | Х | | RC | 9708.9 |
| Starting Odometer | As Documented Pre-Test Drive | Х | | RC | 9648. |
| Miles Driven | Calculate Miles Driven Since Restored | Х | | RC | 60.4 |
| | | | | | |
| | | | | | |
| | | | | | |
| ' | VERY DETAILING Wash Exterior Wax/Polish Exterior Polish Brightwork Armorall Tires Vacuum Interior Armorall Interior Clean Windows Detail Engine Bay Clean/Organize Trunk Detail Undercarriage Check All Fluids Verify Documents Document Odometer Starting Odometer | Wash Exterior Wash Exterior Wash Polish Exterior Polish Brightwork Armorall Tires Vacuum Interior Armorall Interior Clean Windows Detail Engine Bay Clean As Secure Spare/Tools Etc. Detail Undercarriage Check All Fluids Verify Documents Clean Windows Clean Underneath & Check for Leaks Check All Fluids Verify Documents Clean Windows Clean Underneath & Detail Check For Leaks Check All Fluids Verify Documents Clean Colombeter Clean Windows Clean Underneath & Check for Leaks Check All Fluids Verify Fluid Levels Check Colombeter Clean Colombeter Clean Colombeter Clean Colombeter Clean Underneath & Check for Leaks Check All Fluids Check Colombeter Clean Colombeter Cle | Wash Exterior Wash As Needed X Wax/Polish Exterior Wax/Polish As Needed X Polish Brightwork Polish All Chrome & Stainless Trim X Armorall Tires Tire-Black or Similar Tire Treatment X Vacuum Interior Vacuum Carpet Etc. X Armorall Interior Armorall Dash, Seats, Side Panels Etc. X Clean Windows Clean Inside/Outside All Windows X Detail Engine Bay Clean as Necessary X Clean/Organize Trunk Clean & Secure Spare/Tools Etc. X Detail Undercarriage Clean Underneath & Check for Leaks X Check All Fluids Verify Fluid Levels X Verify Documents Registration & Insurance on Board? X Document Odometer Record Total Miles at Delivery X Starting Odometer As Documented Pre-Test Drive X | VERY DETAILING Wash Exterior | VERY DETAILING Wash Exterior |

DELIVERY NOTES & COMMENTS

Original model carburetor cannot be adjusted to match the mixture required by modern fuel blends. This is resulting in a significant hesitation - or stumbling - just off of idle. This makes it difficult to take off from a standing start without stalling the engine unless you "massage" the accelerator. "Seafoam" fuel treatment was added to the fuel tank (roughly 12 gallons in tank) to see if it will improve the condition since the original carburetor had been seriouly clogged by old fuel residue in the past. If the condition does not improve after running a couple of tanks of fuel (with Seafoam) through the carburetor, it is suggested that the carburetor be replaced with a more modern unit (Holley, Edelbrock or Demon) that is easy to re-jet as necessary.

The tires on the car have very weak sidewalls that cause steering to be sluggish. Braking is also degraded by these tires. Better tires with stiffer sidewalls are suggested.

The neutral safety switch is worn and causes intermittent problems with engaging the starter. This switch has been disassembled and cleaned, but it still doesn't function perfectly. Replacement switches are unavailable. If the starter fails to engage, move the shifter lever slightly (when in PARK) to engage the starter, or shift the transmission to NEUTRAL. This safety switch can be bypassed if it fails completely, but it is not recommended.

The windshield wiper switch's "OFF" position does not function properly. Replacement switches are not available. The existing switch has been disassembled and cleaned, but it is still problematic. To turn the wipers off, locate the point between the two left-most detents where the wipers stop. The wipers must be manually "parked" in their bottom-most postion when not in use.



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Galaxie 500

19 64

Operations Guide



OPERATIONS GUIDE 1964 Ford Galaxie 500 for Papa Smurf

This is a supplement to the original Ford owner's manual for the 1964 Galaxie 500. It is not intended to be a comprehensive manual. This is to be used as a guide to those items, systems and/or procedures that may differ from the original car as delivered when new.

ENGINE START: It is important to note that this car's fuel system is managed via a mechanical carburetor – as opposed to most modern vehicles which utilize computer-controlled fuel injection. Therefore, it is not a simple matter of "start-and-go".

When the engine is cold, the carburetor's electrically-controlled choke mechanism enriches the fuel/air mixture to allow the engine to operate until it reaches normal operating temperature. This results in a period of time where the engine will be sluggish and overly sensitive to operator input via the accelerator pedal. It will also idle at a higher-than-normal RPM while the choke is active.

Cold Start: When starting the engine cold, the following procedure should be observed:

- Insert the key in the ignition and rotate it clockwise to the "RUN" position.
- Pump the accelerator 2-3 times.
- Rotate the ignition key clockwise to the "START" position to engage the starter.
- If the engine does not start immediately, pump the accelerator a couple more times while the starter is engaged.
- Once the engine starts, disengage the starter and allow the ignition key to return to the "RUN" position.
- Note that when cold, some "finessing" of the accelerator may be necessary to keep the engine running for the first 15 30 seconds before it can be allowed to idle on its own.

- When cold, it is not at all uncommon to have to start the engine 2-3 times before it will idle on its own.
- IMPORTANT: Do not keep the starter engaged (cranking the engine) for more than 15 seconds at a time or the starter may overheat. Allow sufficient time to pass between starting attempts so that the starter can cool down.
- Once started, allow the engine to run for 30 60 seconds before attempting to drive.
- Note that the engine will continue to run at a high idle for several minutes to prevent stalling until the engine reaches operating temperature. Keep this in mind as it will require increased braking pressure to keep the car from creeping when stopped.

Warm Start: When re-starting the engine after it has already warmed up, the following procedure should be observed:

- Insert the key in the ignition and rotate it clockwise to the "RUN" position. *Without pumping the accelerator*, continue past the "RUN" position to the "START" position to engage the starter.
- If the engine starts immediately, release the ignition key and allow it to return to the "RUN" position. Once the engine stabilizes into a smooth idle, you are ready to go.
- If the engine does not start immediately, pump the accelerator lightly a few times to enrich the fuel/air mixture and once the engine starts, release the ignition key and allow it to return to the "RUN" position. Note that this may cause the choke to re-engage resulting in the same high idle as when the engine is cold. This will resolve itself to a normal idle once the choke has heated up.

Flooded Start: If the engine does not start and you smell gasoline fumes, follow the procedure below:

- Insert the key in the ignition and rotate it clockwise to the "RUN" position. *Hold the accelerator to the floor* as you continue past the "RUN" position to the "START" position to engage the starter.
- If the engine starts immediately, release the ignition key and allow it to return to the "RUN" position while *simultaneously* releasing the accelerator. Once the engine stabilizes into a smooth idle, you are ready to go. Note that this may cause the choke to re-engage resulting in the same high idle as when the engine is cold. This will resolve itself to a normal idle once the choke has heated up.

IMPORTANT NOTE: Do <u>not</u> leave the key in the "RUN" position for an extended period without the engine running. Doing so will damage the electric choke mechanism and the electronic ignition.

TRANSMISSION: Your car is equipped with an early version of the Ford FMX "Cruise-O-Matic" automatic transmission. It is also called the "Green Dot Transmission" because shifter mechanism on the floorboard differs somewhat from the later model transmissions in that it has a "green dot" position just below the "Drive" position.



The illustration above shows the functions of each of the forward gear positions of the shifter. The function of each of the shifter positions are as follows:

- "P" PARK: Used to secure the car when parked. This engages a parking "pawl" that prevents the car from rolling. However, it is *strongly* recommended that the parking position be augmented by using the parking brake. These C4 transmissions are notorious for having their parking pawls fail resulting in driverless coaster cars. Shifting into *and* out of PARK requires pressing the detent knob on the left side of the shifter handle.
- "R" REVERSE: This position is used for driving backwards or "in reverse". Use appropriate caution. Shifting into REVERSE requires pressing the detent knob on the left side of the shifter handle.
- "N" NEUTRAL: This position disengages the engine's rotational force from the driveline. There is little reason for using this position other than for pushing/towing the vehicle.
- "DRIVE": Back when the car was manufactured, this was considered the normal driving position for the transmission's shifter. However, that was based on the concept that drivers preferred to reduce the number of transmission shifts to improve overall comfort. This was done by forcing the transmission to start the car out from a standing start in *second* gear thus resulting in just one shift from

- second to third gear during acceleration. This is <u>not recommended</u> for normal driving as it increases wear on the transmission's clutch.
- "GREEN DOT": This position is the only one where the transmission will shift through all of its forward speeds during acceleration thus providing maximum performance and reduced clutch wear. This is the recommended position for normal driving. It is easily reached without looking at the shifter since you can pull the shifter all the way back with the detent knob released and it will stop in this position.
- "LOW": This position is for *first* gear operation only. In this position, the transmission starts out and stays in first gear unless the shifter's position is changed. You can shift into LOW while moving, but caution is advised because the change into first gear can be sudden and when "downshifting" into this gear, the difference in gearing can cause engine over-revving and/or damage to the transmission. Shifting into LOW requires pressing the detent knob on the left side of the shifter handle. Shifting out of LOW does can be done without pressing the detent knob.



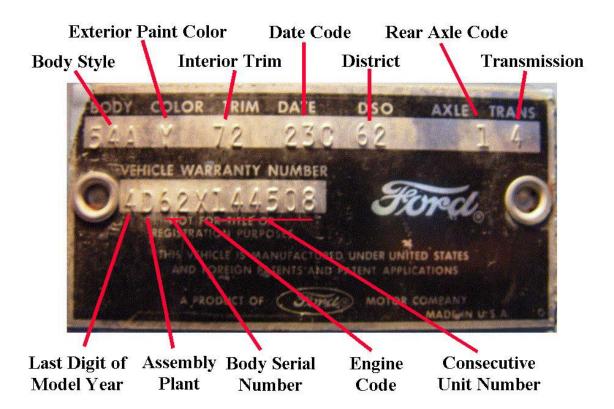
SPECIFICATIONS & MAINTENANCE

1964 Ford Galaxie 500

For Papa Smurf

This document is intended to provide the specifications that are specific to this particular vehicle and is not all-inclusive. Consider it a supplement to the manufacturer's Owners Manual that was provided with the car when new.

VECHICLE IDENTIFICATION NUMBER (VIN) AND DATA PLATE: On the back edge of the driver's door, a data plate is affixed which specifies the vehicle's unique identification number (VIN) and other information related to the configuration of this particular example of a 1964 Ford Galaxie 500. Below is an image of this car's data plate with the specific information items illustrated.



The codes used on this particular vehicle decode as follows:

- VIN: 4D62X144508
 - o <u>Model Year:</u> "4" = 1964
 - o Assembly Plant: "D" = Dallas, Texas
 - o <u>Body Serial Number</u>: "62" = 4-Door Sedan
 - o Engine Code: "X" = 352 Cubic Inch (4-barrel)
 - o Consecutive Unit Number: "144508"
- **Body Style:** "54" = 4-Door Sedan
- Exterior Paint: "Y" = "Skylight Blue" (code 1623)
- Interior Trim: "72" = Med. Blue Diamond Luster & Lt. Blue Diamond Luster
- **Date Code:** "23C" = March 23, 1964
- **District:** "62" = Houston, Texas
- **Rear Axle:** "1" = 3.00:1
- **Transmission:** "4" = Cruise-O-Matic

MAINTENANCE SPECIFICATIONS:

- Ignition System:
 - o Spark Plugs: Autolight 45
 - o Spark Plug Gap: 0.32" 0.36"
 - o <u>Ignition Timing</u>: 6 Degrees BTDC
- Engine Oil:
 - o Oil Brand/Type: Shell Rotella T (or other with ZDDP additive)
 - o Oil Viscosity: 15W40
 - o Oil Capacity (w/filter change): 5 quarts
 - o Oil Filter: WIX 51515 or Fram PH8A
- Air Filter: WIX 42061, Fram CA184, or STP SA184
- Transmission Fluid:
 - o Type: Mercon/Dextron III
 - o <u>Capacity</u>: 8-9 quarts

• Engine Coolant:

o <u>Type</u>: Any aluminum-compatible antifreeze.

o <u>Capacity</u>: Approximately 8 quarts.

o <u>Mixture</u>: 50/50 antifreeze/water recommended

o Thermostat: 180 Degrees (F)

• Tires:

o <u>Size</u>: 205/75R-14

o <u>Recommended Inflation</u> (cold):

Front: 35 psi *Rear*: 32 psi

• **Brake Fluid:** Valvoline Synthetic Brake Fluid (NOT DOT3)

• **Differential Fluid:** 80W-90W Gear Oil

SERVICE INTERVALS: The following service intervals are recommended by Midlife Classics to keep your car in top condition:

- Oil & Filter Change: Every 3,000 miles or 12 months (whichever comes first)
- **Transmission Fluid & Filter Service:** Every 15,000 miles or 3 years (whichever comes first)
- **Air Filter:** Every 15,000 miles. More frequently in dusty conditions
- Coolant (antifreeze): Change every 2 years
- **Brake Fluid:** Change every 2 years.
- Tire Rotation & Balancing: Every 5,000 miles
- **Differential (rear axle) Fluid:** Every 15,000 miles
- **Replace Fuel Filter:** Every 15,000 miles (inside the fuel pump)



Classic Auto Restoration, Upgrades, Service & Sales

Princeton, TX 972-736-3560 www.midlifeclassics.com



MAINTENANCE LOG

1964 Ford Galaxie 500 Papa Smurf

Indicate the actual odometer reading when each service is performed under the appropriate mileage interval.

| | | RVAL | | | | | | | | | | |
|-----------------------------|--------|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| MAINTENANCE ITEM | MILES | MONTHS | 3,000 | 6,000 | 9,000 | 12,000 | 15,000 | 18,000 | 21,000 | 24,000 | 27,000 | 30,000 |
| Engine Oil & Filter Change | 3,000 | 12 | | | | | | | | | | |
| Transmission Fluid & Filter | 15,000 | 36 | | | | | | | | | | |
| Air Filter Replacement | 15,000 | 36 | | | | | | | | | | |
| Coolant Change | | 24 | | | | | | | | | | |
| Brake Fluid | | 24 | | | | | | | | | | |
| Tire Rotation & Balancing | 5,000 | | | | | | | | | | | |
| Differential Fluid Change | 15,000 | 48 | | | | | | | | | | |
| Replace Fuel Filters | 15,000 | | | | | | | | | | | |
| | | | | | | | | | | | | |

NOTE: Odometer reading at the end of the restoration was 9,648.5 miles. This should be used as the new "zero miles" point when referencing maintenance intervals

IMPORTANT: An engine oil and filter change should be performed after the first 500 miles (at 10,148.5 miles).

