
4 Gto Manual Transmission

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*How To Rebuild
and Modify Your
Manual
Transmission*
Motorbooks
The Complete
Book of Pontiac
GTO gives you a
year-by-year,
model-by-model

exploration of the world's first muscle car, all in full color photography, most of which has never been published. When Pontiac created the original muscle car—the GTO—it reshaped the automotive world like a four-inch piston going through a three-inch cylinder bore. Everything changed the moment John

Zachery DeLorean and his crew of hot-rodding miscreants bolted a big engine into a smaller car and created the 1964 GTO. Make no mistake: DeLorean and his partners in crime were genuine outlaws. The GTO broke so many of General Motors' corporate rules that the people responsible should

have been fired. And mid-1960s, they would have been, except the car was a hit. The Complete Book of Pontiac GTO explores every iteration of the first car created specifically for baby boomers. With rare photography from the archives of Hot Rod and Motor Trend magazines, this book is the complete resource for fans of the world's first muscle car.

**AMA Specific
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- Passenger
Car; Pontiac
- T-37,
LeMans,
LeMans
Sport, GTO.
1971**

McFarland
By the

the American automotive market was yearning for faster, more responsive, and sportier cars, and a crew of high-performance enthusiasts at Pontiac recognized this. Large V-8s were commonly installed in full-size cars, but performance was hampered by pure chassis weight. Under the guidance of Bunkie

Knudsen, John DeLorean, Bill Collins, and others, Pontiac installed the high-performance 389 V-8 into the nimble and lightweight intermediate-size LeMans chassis. It was a watershed moment for Pontiac; the 1964 GTO delivered astounding performance and created the muscle car blueprint

that the Detroit manufacturer s followed in the 1960s and 1970s. This volume in the Muscle Cars In Detail Series delivers a comprehensiv e review of this trend- setting and historic car. The GTO housed a 389 V-8 engine with a single Carter AFB 4-barrel carburetor, and along with dual exhaust and	4-speed manual transmission , it supplied extraordinar y performance. To improve traction and handling, the GTO was fitted with stiffer springs, limited-slip differential , larger- diameter front sway bar, and wider wheels. And to give it panache, the GTO was adorned with distinctive	badges and a hood scoop. The 1964 GTO is a landmark car, and this book goes well beyond the glossy overview of other books about this car. All In Detail Series books include an introduction and historical overview, an explanation of the design and concepts involved in creating the car, a look
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at marketing and promotion, and an in-depth study of all hardware and available options, as well as an examination of where the car is on the market today. Also included is an appendix of paint and option codes, VIN and build-tag decoders, as well as production numbers.

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GTO Motorbooks
International
The automotive industry underwent great change in the 1960s and the early 1970s. The continuing trend toward market consolidation, the proliferation of sizes and nameplates, and the "need for speed" characterized this period, loosely labeled as the muscle car era. This is an exhaustive reference work to American made

cars of model years 1966-1972. Organized by year (and summarizing the market annually), it provides a yearly update on each make's status and production figures, then details all models offered for that year. Model listings include available body styles, base prices, engine and transmission choices, power ratings, standard equipment, major options and their prices, curb weight and dimensions (interior and exterior), paint color choices, changes from the

previous year's model, and sales figures. Also given are assembly plant locations and historical overviews of each model nameplate. Standard Catalog of Pontiac, 1926-2002 CarTech Inc The Muncie 4-speeds, M20, M21, and M22 are some of the most popular manual transmissions ever made and continue to be incredibly popular. The Muncie was the top high-performance manual transmission

GM offered in its muscle cars of the 60s and early 70s. It was installed in the Camaro, Chevelle, Buick GS, Pontiac GTO, Olds Cutlass, and many other classic cars. Many owners want to retain the original transmission in their classic cars to maintain its value. Transmission expert and veteran author Paul Cangialosi has created an indispensable reference to Muncie 4-speeds that guides you through each crucial stage of

the rebuild process. Comprehensive ID information is provided, so you can positively identify the cases, shafts, and related parts. It discusses available models, parts options, and gearbox cases. Most important, it shows how to completely disassemble the gearbox, identify wear and damage, select the best parts, and complete the rebuild. It also explains how to choose the ideal gear ratio for a particular application.

Various high-performance and racing setups are also shown, including essential modifications, gun drilling the shafts, cutting down the gears to remove weight, and achieving race-specific clearances. Muncie 4-speeds need rebuilding after many miles of service and extreme use. In addition, when a muscle car owner builds a high-performance engine that far exceeds stock horsepower, a stronger high-performance transmission

must be built to accommodate this torque and horsepower increase. No other book goes into this much detail on the identification of the Muncie 4-speed, available parts, selection of gear ratios, and the rebuild process. Multidisciplinary Accident Investigation Summaries. Vol. 1. No. 6 Bloomsbury Publishing Pontiac's GTO is often credited as being the first muscle car. As model year 1966 ended, an astounding 96,946 GTOs traversed Pontiac assembly lines, which set a high-water mark that would cement the GOAT as the most

salable muscle car that was produced during the golden age of performance. Author David Bonaskiewich examines this model year in precise detail, taking into account every cosmetic change and optional hardware that warranted this sales boom. The Coke-bottle styling for the remodeled GTO certainly tipped the scales for some consumers. However, as they say, "The devil is in the details." This book delves into those details, showcasing the vast array of optional equipment across its three bodystyles (hardtop, sports coupe, and convertible). Thorough examinations of the drivetrain, interior, suspension, brakes, and wheels and tires are exhaustive, which

unveils exactly why the 1966 GTO was the most successful muscle car ever assembled. Tune up those Tri-Power carburetors, turn on your favorite tune, and twist the key with 1966 Pontiac GTO: In Detail! Muscle Cars McFarland The Street Fighters True muscle cars make no apologies. They had one primary job: get the driver from Point A to Point B as fast as law, and the driver's driving ability, would allow. They started off in the early 1960s as mid-size sedans and coupes stuffed with oversized engines - Bel Airs, Catalinas, and Tempests - and it wasn't long before crazy hi-po machines came in all shapes in sizes. Mustangs, Camaros, Chargers,

Chevelles, 4-4-2s, Gran Sports ... they all had one thing in common: big engines, and big performance. In Nothin' But Muscle, you'll find 199 of the greatest American performance cars ever built. From the earliest 1964 GTO, to the Shelby-built muscle/racers of the late- 60s, to the ferocious Buicks of the 1980s and 500-plus-hp Viper and Corvette rocketships of today. Nothin' But Muscle brings you the most memorable and beloved pavement eaters ever seen on American soil. American Cars, 1966-1972 CarTech Inc Hidden in garages or screaming down streets, muscle cars still turn heads. The All-American phenomena are loud and proud.

Get a glimpse of your favorites here! American Cars, 1960-1972 CarTech Inc In 1963 Pontiac's Chief Engineer John DeLorean and his two favorite staff engineers, Bill Collins and Russ Gee, came up with an inspired way to keep Pontiac cars in the performance limelight: bolt a big engine into Pontiac's upcoming Tempest intermediate body. Thus was the GTO born. Through cunning, resourcefulness, and outright trickery the minds of Pontiac managed to get this rocket into dealerships and out onto America's highways, and to introduce that most iconic of American automobiles, the muscle car, to the nation ' s most

discriminating drivers. This is the story of the GTO, of the people who made it a reality and a sales sensation, of those who owned and loved the cars.

And it is, above all, a story of the cars themselves, from the initial option package offered for the 1964 model year through the high-performance late-model standouts.

With color photographs, drawings, and detailed stats, this book is not so much the story of a historic car as an illustrated biography of American muscle.

Standard Catalog of American Cars, 1946-1975

CarTech Inc

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brainstorming session, Pontiac executives and engineers decided to slot a 389-ci V-8 into the intermediate-sized Tempest against GM rules and the GTO was created. Little did they know what a profound impact that decision would make. The GTO would become a sensation and later was recognized as the first muscle car of the 1960s.

Visionaries Pete Estes, John DeLorean, and other key Pontiac executives knew the youth market was waiting for a bold, lightweight sporty

car. When their staff toyed with the concept of putting the large V-8 in the car, Pontiac executives jumped on the idea to meet that perceived market demand.

Pontiac had a high-performance street car that could light up its tires and outperform the vast majority of the cars on the road. It also reshaped Pontiac ' s image of a company producing stodgy, lumbering full-size cars into a high-performance youth brand. Pontiac expert and long-time writer David Bonaskiewich delves deep into the

GTO model and its history, bringing the equipment and options of this iconic muscle car into full focus. He reveals the hardware under the sheet metal: the V-8 engines, manual and automatic transmissions, rear differentials, interior options, color codes, and so much more. When the GTO was released in 1964, it was offered as a unique performance package to the Tempest, and high-performance enthusiasts stood up and took notice. Examined are the GTO 's 4-barrel 389 with dual exhaust, 3-speed floor shifter, stiffer suspension, limited-slip differential, and heavy-duty cooling system. The 1965 GTO was restyled with more interior room being added, and the renowned 389 Tri-Power engine joined the lineup, cranking out 360 hp. By 1966, the GTO was a runaway success. Pontiac made the GTO its own model, and it featured a sleeker Coke-bottle styling. A convertible joined the hardtop, and a pillared coupe also joined the lineup. The 1967 Pontiac GTO was arguably one of most the superbly styled models ever, with a wide range of engines and high-performance hardware. All of these important upgrades, advancements, and model evolutions are covered in exceptional detail. The GTO stands alone in the annals for muscle car history. Not only did Pontiac create a classic muscle car, it created the muscle car blueprint that other Detroit manufacturers followed in the years to come. A glossy surface overview of this iconic model does

not do it justice. If you have been searching for the in-depth, nuts-and-bolts guide to GTO equipment and options, you need look no further.

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Chilton's Auto Repair Manual, 1974

McFarland

Popular Science gives our readers the

information and tools to improve their

technology and their world. The core belief

that Popular Science and our readers share:

The future is going to be better, and science and technology are the driving forces that will help make it better.

Catalog of Pontiac GTO ID Numbers, 1964-74 Lulu.com

Take the fear out of

buying your next GTO with this comprehensive, accurate and dependable ID guide to Pontiacs muscle powerhouse. Reliable data on buying, selling, restoring, appraising and owning a GTO, plus information to assist in deciphering trim codes, varifying VINs, interpreting body body codes, authenticating engine numbers, and more. Crammed with vital data. Old Cars Weekly. Sftbd., 8x 10 3/4, 121 pgs., 77 b&w ill., 20 color pgs.

1964 Pontiac GTO Penguin

A breed unlike any seen before or since, the powerful, stylish American muscle car defined an era in automotive history. This history traces the rise and fall of these great performance cars

from their precursors in the 1950s through the seminal appearance of the Pontiac GTO in 1964 and then year by year to the end in the 1970s. Approachable and nontechnical yet deeply informative, it puts the bygone muscle car in its cultural and aesthetic contexts, describes developments in styling, performance and marketing, and revels in the joys of muscle car ownership in the 21st century. Muscle Car Source Book McFarland When the Pontiac GTO debuted in the fall of 1963, few people could have predicted that the landscape of the performance car would be changed forever. With the new GTO, a genre of automobiles was born that combined image, character, and

"muscle." 515,797 GTOs rolled off assembly lines from 1963 through 1974; it ' s undeniable just how influential these cars were. What Pontiac couldn't have predicted was just how collectible the GTOs would be decades later. Author Peter Sessler dissects the GTO and presents critical data including engine and transmission codes, rear axle identification, exterior and interior colors, options, production numbers, and VIN decoding. If you're at a car show and someone asks you what the distributor number is on your GTO, open this book and find the answer. Correctly restoring a GTO is no easy matter. With this book you take a giant step toward understanding just what components are

needed to bring your old Goat back to life. Possessing this much data is a surefire way to become a GTO expert. It even fits in your back pocket! Original Pontiac GTO, 1964-1974 Gareth Stevens Un-bridled power unleashed, 500 screaming horsepower. The Baddest street legal machines ever produced. The Iconic American Muscle Cars of 1968-1971 are covered in the book. Its a great primer and quick reference guide with historic text, large black and white photos, details and basic specs. The Complete Book of Pontiac GTO Penguin This book describes American cars of the 1960s, powerful cars built for speed, from

Corvettes and Thunderbirds to Pontiac GTOs, Dodge Chargers, and others. American Cars of the 1960s Crestline Books Written and designed for casual enthusiasts, as well as restorers who want to determine which parts, accessories and colors will restore their cars to factory-original condition, every title in the Bay View Original Series provides a huge selection of color photography, comprehensive factory records, thorough specifications, detailed parts lists and nostalgic

period literature.	glory.	the market
The brainchild of a young GM executive named John DeLorean, the Pontiac GTO that growled forth from the 1963 Tempest LeMans sport package is the acknowledged granddaddy of American muscle cars. This guide features a huge selection of color photography depicting GTOs from 1964 through 1974, including Tripowers, Ram Air models, Royal Bobcats and the much-revered Judges in all their "Orbit Orange," "Limelight Green" and "Carousel Red"	<u>1966 Pontiac GTO</u> CarTech Inc The automotive industry underwent great change in the 1960s. The continuing trend toward market consolidation, the proliferation of sizes and nameplates, and the "need for speed" characterized this period, loosely labeled as the muscle car era. This is an exhaustive reference work to American made cars of model years 1960-1965. Organized by year (and summarizing	annually), it provides a yearly update on each make's status and production figures, then details all models offered for that year. Model listings include available body styles, base prices, engine and transmission choices, power ratings, standard equipment, major options and their prices, curb weight and dimensions (interior and exterior), paint color choices, changes from the previous year's model, and sales figures. Also given are assembly plant

locations and historical overviews of each model nameplate.

How to Rebuild and Modify High-Performance Manual

Transmissions

McFarland

"Muscle Car Source Book is a muscle car buff's encyclopedia that chronicles the how's why's, and when's of American muscle car

manufacturers like Dodge, Plymouth, Ford, and more"--

The Age of the Muscle Car CarTech Inc

A breed unlike any seen before or since, the powerful, stylish American muscle car defined an era in automotive history.

This history traces the rise and fall of these great performance cars

from their precursors in the 1950s through the seminal appearance of the Pontiac GTO in 1964 and then year by year to the end in the 1970s. Approachable and nontechnical yet deeply informative, it puts the bygone muscle car in its cultural and aesthetic contexts, describes developments in styling, performance and marketing, and revels in the joys of muscle car ownership in the 21st century.

Popular Science
McFarland
These value-packed guides feature hundreds of photographs and a wealth of information necessary to restore interiors, exteriors, wiring, engines, transmissions, and

accessories to factory-original condition.