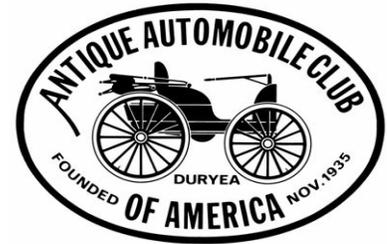


NEWS FROM THE



Swamp Fox Region

CELEBRATING OUR 37th YEAR AS AN ACTIVE CLUB

NEXT MEETING

Brown's BBQ
1243 West
Lucas St.
Florence, SC
Sep. 11, 2018
6:30 PM for eating/fellowship
7:00 PM for Club Meeting

September 1, 2018



HAPPY BIRTHDAY TO:

Curt Smith	9-7
Debbie Stewart	9-21
Cheryl Floyd	9-27
Stacy Spence	9-28



Robinson's Ramblings'

September 1st is here and I don't know where the year has gone. The planning and preparation is in good shape for the Sweet Potato show in Darlington on Oct 13 with Nick as the chairman for the show. Tom Spence has the preparation for the Pecan Festival show in good shape, and we have started the planning phase for the Antique and Classic show at Hoffmeyer Place for next April. The show date will be April 13, 2019 for this show.

I would like to welcome Kit Fulmer to the club as our newest member. Kit has a really nice 1938 Plymouth 2dr sedan and is doing a lot of work on the car at this time. He will be driving it to our meetings in the near future.

I would also like to welcome Doug and Cheryl Floyd as our 2 new Board of Directors members. They fill 2 vacancies resulting from Tom Spence's promotion to Vice President and one vacancy that existed for some time. Dave Rast will become our Facebook Master so anything related to Facebook will go to and thru him.

WELCOME NEW MEMBERS

Kit Fulmer

2018 CLUB OFFICERS

President	Al Robinson	496-7207
Vice Pres.	Tom Spence	773-0189
Secretary/	Susan Pace	230-0212
Treasurer.		

NEW CLUB WEBSITE:

swampfox.aaca.com

Email:swampfoxoldcarclub@gmail.com

2018 Car Show Schedule

Sweet Potato Festival, Darlington, SC
10/13/18

Pecan Festival, Florence, SC 11/3/18

Robinson's Ramblings' con't

Curt will be the chairman for the Hoffmeyer Place show again in 2019. He has already put some things in place and we hope to make this show even bigger and better. It was a huge success in 2018 and the future looks bright for 2019. We will need lots of help from each of you as we go forward. This show will become our signature presentation in the Pee Dee in the future and will showcase just how great a car club we are!!!

Don't forget Charlotte Auto Fair Sept 5-9. The club gathering place for those attending will be my swap meet spaces (SO-28 and TO 28) in the Orange Field. Also mark the next Cars and Coffee at Highland Park Methodist Church on your calendar for Sept 8 from 9 to 11 am.

Let's get some cars together and go as a group to the Golden Leaf show in Mullins on Sept 22. Luther Johnson heads up this show and is a very active member of Swamp Fox. Let's support him on this show.

REMEMBER, LIFE'S TOO SHORT TO DRIVE BORING CARS-ENJOY YOUR PRIDE AND JOY!

AL



The Editors Turn

This month's "Swamp Fox Rides" features the story of the acquisition and restoration of a 1970 Pontiac GTO as told by its owner and Swamp Fox Car Club member Bill Edwards.

In addition to his story, I have included sequential photos of the car as purchased, during the restoration process, and after it received an AACA First Grand National Award. These photos are just a small sample of the hundreds of pictures taken to document and facilitate the restoration of this special car.

The materials that follow are an effort to outline the processes, methods, and references used to complete the successful restoration of his GTO. I hope that it will be helpful to you when you begin your own restoration project.

Curt Smith

The steps to a successful restoration

- Define the scope of the restoration. Will it be a complete ground up restoration or a service and repair procedure to make the car a reliable and attractive driver?
- Get organized. Plan, manage and control your project. Ultimately you are responsible for the outcome. Carefully select the primary shop that will do the work. Make frequent visits to keep the project on track and the quality at a high level. Address issues in a timely manner.
- Do your homework. Research reliable and factual references, not just an internet search. See attached examples including build sheets, assembly manuals, restoration manuals, judging manuals, and parts catalogs.
- Determine and document the originality and condition of everything. Seek advice from experienced, knowledgeable people. Listen carefully to what they say. Ask lots of questions. Take notes. Heed their advice as appropriate.
- Photograph in detail, all of the car prior to beginning the restoration. Inspect every component of the car. Photograph and document all of the numbers (VIN, part numbers, serial numbers, date codes, etc.). Confirm that your photos are clear and complete.
- Carefully disassemble the car. Bag and tag everything. Do NOT throw away anything! One day you will need to refer to an old, original component and compare to a new or rebuilt replacement part.
- Continue to photograph all steps of disassembly. This will be valuable when it is time to reassemble.
- Photograph all steps of reassembly to create an historical record.
- Closely control the storage of everything during the restoration process. Sometimes the most important and valuable rare parts will grow legs and disappear without a trace.
- The pace of a project will ebb and flow. Allow time to sort out issues as the project nears completion. Time is of the essence but Quality is forever.
- Success is a result of preparation and perspiration. If you don't plan and manage your project effectively, it will only be a success by accident.

Good luck with your project!

The GTO ASSOCIATION OF AMERICA'S Pontiac GTO/GT-37 Illustrated Identification Guide

**1964-1974 & 2004 GTO
1970 1/2-1971 GT-37**

Eric White

1970 GTO

PRODUCTION TOTALS

By body style:	Series/style number	Production
Style [Style no.]	4237	36,366
2-door Hardtop Coupe [37]	4267	3,783
2-door Convertible [67]		
		total - 40,149

By engine: Cubic Inches Carburetor Hp

Standard [Std.]	400	1 x 4bbl [6bl]	350	30,555
Optional [Opt.]	400	1 x 4bbl Ram Air [RA]	366	4,644
Optional [L67]	400	1 x 4bbl Ram Air IV [RA IV]	370	804
Optional [L75]	455	1 x 4bbl	360	4,146

By transmission:

	67	37	67 37	TOTAL
Man. trans. [MT]	667	9,348		10,015
MT w/RA	174	3,054	(2,380)	3,228
MT w/RA IV	24	627	(325)	651
MT w/L75	158	1,761	—	1,919
Auto. Trans. [AT]	2,172	16,148	—	20,320
AT w/RA	114	1,302	(1,003)	1,416
AT w/RA IV	13	140	(72)	153
AT w/L75	241	1,986	(3) (14)	2,227
TOTAL	3,783	36,366	(162) (3,635)	40,149

By power team:

		20,320
Std. 4bbl. M40		10,235
Std. 4bbl. M13, M20, M21		2,210
L75, M40 w/o WT1		1,831
4bbl RA, M20 w/WT1		1,802
L75, M21 w/WT1		1,003
4bbl RA, M40 w/WT1		601
4bbl RA, M20 w/o WT1		425
4bbl RA, M21 w/WT1		413
4bbl RA, M40 w/o WT1		326
4bbl RA IV, M21 w/WT1		365
4bbl RA, M21 w/o WT1		226
4bbl RA, M13 w/WT1		124
L75, M13 w/o WT1		117
4bbl RA IV, M40 w/o WT1		81
4bbl RA IV, M40 w/WT1		72
4bbl. RA, M13 w/o WT1		21
L75, M40 w/WT1		17

By lower body color:

	4,980	Palladium Silver	2,394
Atoll Blue	4,980	Baja Gold	2,067
Granada Gold	4,664	Bermuda Blue	1,861
Cardinal Red	3,777	Starlight Black	1,515
Pepper Green	3,661	Palomino Copper	1,457
Verdoro Green	3,299	Burgundy	1,246
Sierra Yellow	2,889	Mint Turquoise	774
Palisade Green	2,487	Orbit Orange*	618
Polar White	2,460		

* 211 units were produced with the WT1/UBS option combination.

Miscellaneous:

- No convertibles were produced in the Arlington, TX or Oshawa, Canada assembly plants.
- No L67 engines were installed in the Oshawa assembly plant.

WEIGHTS AND MEASUREMENTS

Curb weight: (based on std engine/trans.)

Automatic transmission:	Hardtop coupe	3,810 lbs.
Convertible		3,860
Manual transmission:	Hardtop coupe	3,781 lbs.
Convertible		3,821

Add: 110 lbs. for Air Conditioning (AC); 31 lbs. for Power Steering (PS); 21 lbs. for Power Disc Brakes (PDB); 9 lbs. for Push Button Radio; 48 lbs. for 455 ci engine; 26 lbs. for RA; 13 lbs. for RA IV; 29 for AT.

Measurements: (refer to illustration above)

	A	B	C	D	E	F
37	112.0"	52.3"	61.0"	76.7"	60.0"	202.9"
67	112.0"	52.6"	61.0"	76.7"	60.0"	202.9"

DRIVETRAIN

Engine: Standard [L78] RA [L74] L67 L75

Type - Cast iron alloy, water-cooled, overhead valve, 90° V-8
Spark plug firing order - 1-8-4-3-6-5-7-2
Comp. ratio - 10.25:1 10.5:1 10.25:1
Bore & stroke - 4.12" x 3.75" 4.15" x 4.21"
Displacement/cyliter - 399.9/6.6 456.1/7.5
Brake Hp @ RPM - 350 @ 5000 366 @ 5100 370 @ 5500 360 @ 4600
Torque @ RPM - 445 @ 3000 445 @ 3600 445 @ 3900 500 @ 3100

Engine identification [id.] codes

AT:	YS	WS	XP	YA	YC
MT:	WT	WZ	WW	WA	WB

Carburetor: Make - Rochester
Type - 4MV Quadrajet
Number used - One

Ass'y no. - Standard L75 L75 w/RA RA RA IV

AT:	7040294 (VB)	7040298 (VC)	7040270 (WA)	7040270 (WA)
MT:	7040293 (VA)	7040297 (VB)	7040273 (WC)	7040273 (WC)
AT w/EES*	7040564 (VP)	7040568 (VQ)	7040570 (WN)	7040570 (WN)
MT w/EES*	7040563 (VN)	7040567 (VS)	7040573 (WR)	7040573 (WR)

*Evaporative Emission System (Required on all units sold in California).

Intake manifold: Casting no. - 9799068 9799084
Material - Cast iron [C.I.] Alum. w/C.I. heat cross-over

Camshaft:

Part no. -	L78	L75	L74	L67
AT:	9779067(P)	9779067(P)	9779068(S)	9794041(T)
MT:	9779067(P)	9779068(S)	9779068(S)	9794041(T)

(P) (S) (T)

Lift - Intake: 0.410" 0.414" 0.516" 0.516"
Exhaust: 0.413" 0.413" 0.516" 0.516"

Duration - Intake: 273° 286° 308°
Exhaust: 269° 302° 320°

Overlap - 54° 63° 87°

Distributor: Part no. - Std. w/AT - 1111146
Std. w/MT - 1111176
L75 - 1112012
RA w/AT - 1112009
RA w/MT - 1112024
RA IV - 1112011

Heads: Casting no. - Std. w/AT - 9799613 (13)
Std. w/MT or All RA - 9799612 (12)
L75 - 9799364 (64)
RA IV - 9799614 (614)

Valves: Head size, dia. - Intake: 2.11"
Exhaust: 1.77"

Lifters: Type - Hydraulic

Alternator: Make - Delco-Remy, ext. regulator
Standard (37 Amp.) - 1100704 (XC)
AC, RWD; H.D. (55 Amp.) - 1100700 (XB)
AC w/Rr Wind Dlggr (61 Amp.) - 1100895 (SC)

Water Pump: Type - Centrifugal-rotary impeller
Casting no. - 9799124, 799124

Exhaust manifolds:
Casting no. - Std. - Left: 480602; Right: 9799692; D-port
RA - Left: 478140; Right: 9799720; D-port
RA IV - Left: 478141; Right: 9799721; O-port

Fuel pump: Type - Mechanical diaphragm, unitized
Part no. - 6470222 (early), 6470513 (late)

Battery: Type - Group 24, wet-cell, 12-volt, direct current
Make - Std. - Delco, R59, 61 Amp. Hours [AH]
H.D. - Delco R59S, 62 AH
L75 - Delco R59S, 62 AH
H.D. L75 - Delco R79W (side terminal), 76 AH

Radiator: Make - GM, Harrison Radiator Division
Type - Cross-flow tube

Usage -	L78	L75	L74	L67
Standard	BO	BS	BO	BL
AC	PA	PM	PA	PD
H.D.	PA	PM	PA	PM

Dimensions -

id. code*	Part number	Height	Width	Thickness
BO	3014756	17.0"	28.375"	2.00"
BL	3014859	17.0"	28.375"	2.00"
BS	3020094	17.0"	28.375"	2.00"
PA	3016678	17.0"	28.375"	2.75"
PD	3017248	17.0"	28.375"	2.75"
PM	3017244	17.0"	28.375"	2.75"
PS	3022656	17.0"	28.375"	2.75"

*Debossed on metal tag attached to side tank.

Transmissions:
Standard: 3-speed synchromesh (all forward gears synchronized), cast iron case, heavy duty. Floor-shift only.
Make: GM, Muncie M13
Ratios: 1st - 2.42:1; 2nd - 1.58:1; 3rd - 1.00:1; Rev. - 2.41:1
Input shaft: 10 splines; Output shaft: 27 splines
Id. code: DG (two-letter code painted on RH side of main case)

Optional: 4-speed synchromesh (all forward gears synchronized), aluminum case, wide ratio. Not available w/L75
Make: GM, Muncie M20
Ratios: 1st - 2.52:1; 2nd - 1.88:1; 3rd - 1.46:1; 4th - 1.00:1; Rev. - 2.59:1
Input shaft: 10 splines; 2 grooves; Output shaft: 27 splines
Id. code: DJ (two-letter code painted on top of main case)

Location - Left front top of dash, near base of windshield

- Car division - 2 = Pontiac Motor Division
- Series no. - 42 = GTO
- Body style - 37 = 2-door hardtop coupe
67 = 2-door convertible
- Model year - 0 = 1970
- Final assembly plant location - B = Baltimore, MD R = Arlington, TX P = Pontiac, MI Z = Fremont, CA 1 = Oshawa, Ontario, Canada
- Engine type - 1 - 5 = eight cylinder; 6 - 8 = six cylinder
- Sequential serial number (by assembly plant)

Fisher Body assembly plant plates:
Location - Engine compartment, cowl, top left

US plate:

GENERAL MOTORS CORPORATION GUARANTEES TO THE DEALER THAT THIS VEHICLE CONFORMS TO ALL FEDERAL MOTOR VEHICLE SAFETY STANDARDS APPLICABLE AT TIME OF MANUFACTURE.

ST 70 24237 BAL 000000 BODY TR 000 60 60 PAINT

Canadian plate:

GENERAL MOTORS GUARANTEES TO THE DEALER THAT THIS VEHICLE CONFORMS TO ALL FEDERAL MOTOR VEHICLE SAFETY STANDARDS APPLICABLE AT TIME OF MANUFACTURE.

ST 70 24237 OS000000 BODY TR000 6060 PNT 000 US00WT1M20D80

43/L = Keylime Green met.* 58/Z = Granada Gold met.
45/H = Palisade Green met. 60 (06)/T = Orbit Orange
47/Q = Verdoro Green met. 63/B = Palomino Copper met.
48/M = Pepper Green met. 65/V = Carousell Red*
50/Y = Sierra Yellow 67/J = Castillon Bronze met.**
51/W = Goldenrod Yellow* 75/R = Cardinal Red
53/S = Coronado Gold met.* 78/N = Burgundy met.
55/G = Baja Gold met.
* Factory-optional color ** Grand Prix-only color

WT1 Accent stripe/logo - Body color combinations:
Black-Orange-Pink - 25, 28, 34, 60 (66)
Yellow-Blue-Red - 10, 14, 19
254 Medium Red 283 Red 284 Medium Red 285 Red
Green-Yellow-White - 63, 55, 45, 48, 47, 50, 58
D98 Rally stripes (n.a. w/WT1) - White-Red-Black

9) Paint code - Body-upper: (see #8 above)

Convertible top color	Cordova vinyl top color
(A) 1 = White (E) 5 = Dk. Gold	1 = White (A) 7 = Dk. Gold
2 = Black (H) 7 = Dk. Gold	2 = Black (S) 9 = Dk. Green
5 = Sandalwood (Z)	5 = Sandalwood (Z)

10) Interior trim -

Code	Expanded code	Door lower carpet	Door center panel	Headliner "Taffeta"	Floor carpet
250	Dark Blue	Dark Blue	Dark Blue	Dark Blue	Dark Blue
252	Dark Brown	Dark Brown	Dark Brown	Dark Brown	Dark Brown
254	Medium Red	Dark Red	Medium Red	Dark Red	Dark Red
255	Med. Saddle	Dark Saddle	Med. Saddle	Med. Saddle	Dark Saddle
256	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green
257	Med. Sandalwood	Dk. Sandalwood	M. Sandalwood	M. Sandalwood	D. Sandalwood
258	Black	Black	Black	Black	Black
267**	Med. Sandalwood	Dk. Sandalwood	M. Sandalwood	M. Sandalwood	D. Sandalwood
268**	Black	Black	Black	Black	Black

** Not available w/convertible
** Knockback bench front seat

11) Options: U.P.C. Codes - Only options requiring Fisher Body assembly plant operators are listed. See "Factory-installed options" section for code listing.

TIRES, WHEELS & WHEEL DISC COVERS

Standard tire:
• G78 x 14" black wall
2 polyester body plies
2 fiberglass tread belts
Load range B

Optional tires:
• G70 x 14" white wall (single or dual)
2 polyester body plies
2 fiberglass tread belts
Load range B

1) Date code - The first two digits represent the month of assembly (i.e. 01 = January, 12 = December). The letter represents the week of the month (i.e. A = 1st week, E = 5th week).

2) Model year of manufacture - 70 = 1970

3) Car division - 2 = Pontiac Motor Division

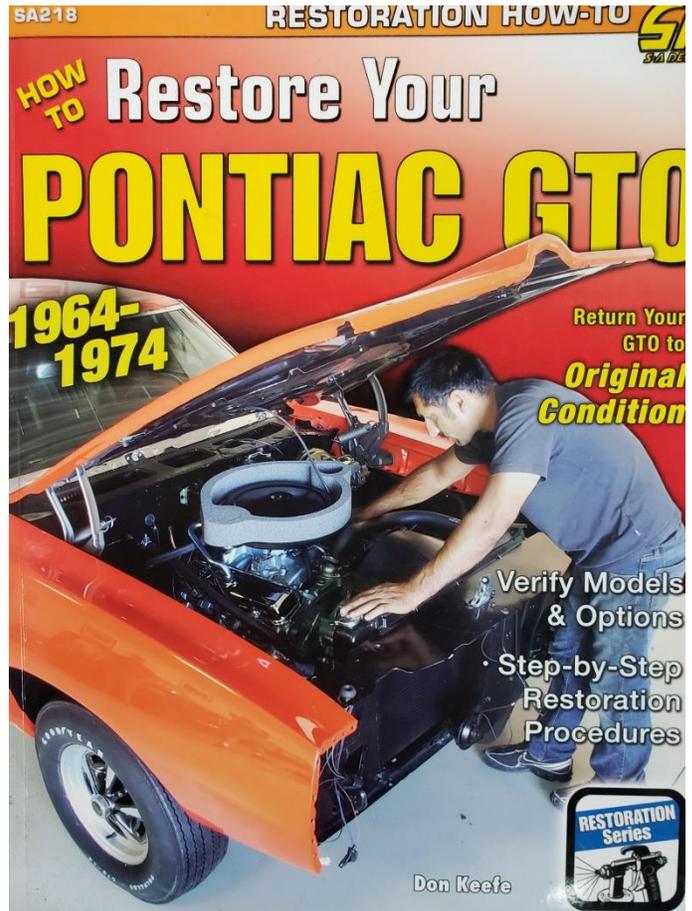
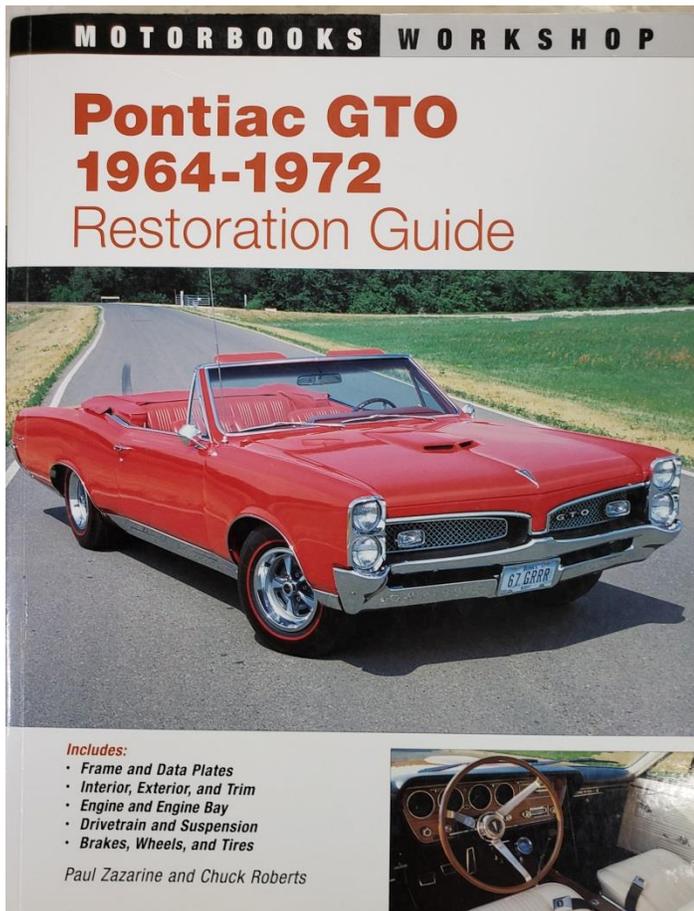
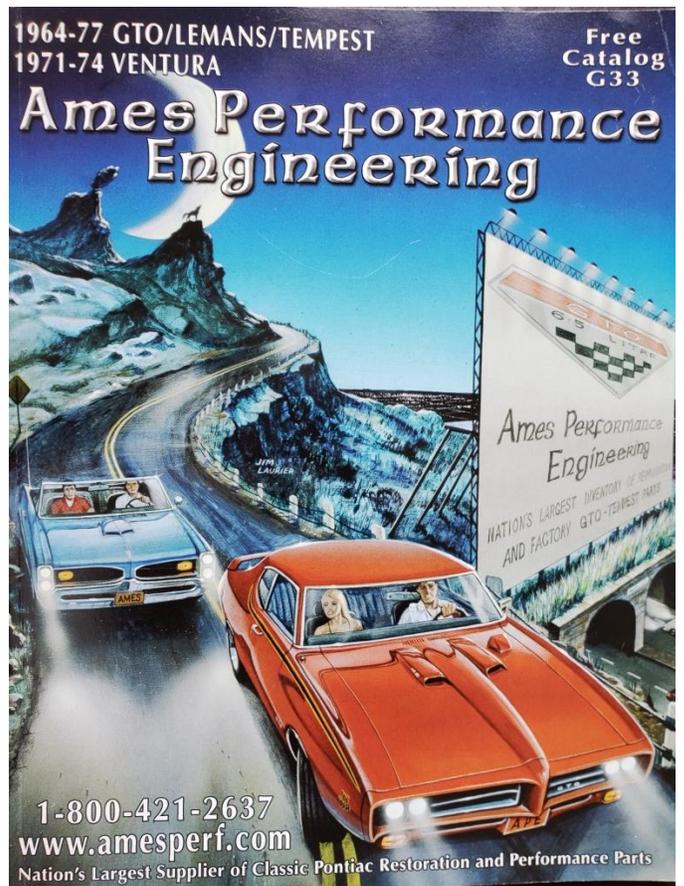
4) Series - 42 = GTO

5) Body style - 37 = 2-door hardtop coupe
67 = 2-door convertible

6) Fisher Body assembly plant: BAL = Baltimore, MD; BF = Fremont, CA; BT = Arlington, TX; PON = Pontiac, MI; OS = Oshawa, CAN

7) Unit number - Used for in-plant sequencing

8) Paint code - Body-lower: 25/D = Bermuda Blue met.
10/C = Polar White 26/F = Lucerne Blue met.*
19/P = Palladium Silver met. 28/E = Atoll Blue met.
19/A = Starlight Black 34/K = Mint Turquoise met.



Swamp Fox Rides

The story of a 1970 GTO restoration

Coming of driving age during the muscle car era was so exciting and those fond memories are what directs my collecting interest day. Those powerful memories came to light when Curt and I took a trip to Hickory, North Carolina to examine an LT1 Corvette.

The owner had a number of GTO's not for sale, including a burgundy 1970, 455 HO convertible, 4-speed car, one of 158. This was the muscle car embodiment of my first car, a 1970 Pontiac Lemans Coupe, automatic, 350, 2 barrel car. The goal of reliving my teen years and muscle car form required significant amounts of "green poultice" applied to the owner's reluctance to sell. Though it looked great from 10 feet away and all numbers were matching, much work lay beneath the shiny repaint as you can see from the restoration photos.

A full frame-off restoration was required which was entrusted to Duane Knight and his expert staff at Knight's body shop. The documentation available for Pontiac's from the Pontiac Historical Society allows confirmation of the exact specifications of this car and the expert research assistance of Curt branching out from his Corvette expertise resulted in the end result which is now traversed AACA judging including a First Grand National Award in Greensburg, Pennsylvania this summer.

Every time I look at the GTO I think about all the fun I had in my first car at age 16. This emotional attachment is very helpful when you think of the time and expense of going through a frame off restoration but I can truly say that it was all worthwhile and it would be very difficult for me to ever part with this fine example of American muscle.

Bill Edwards



Disassembly



Body work, Paint and Reassembly







Details, Details, Details



2018 AACA First Grand National Award Winner



Show Winning Recipes

Cherry Cheese Cake ---- Donna Smith

Crust

Crush the contents of 2 packages of graham crackers in a bowl.

Add 1 ½ sticks of melted butter and mix.

Place in a 9" x 12" serving dish.

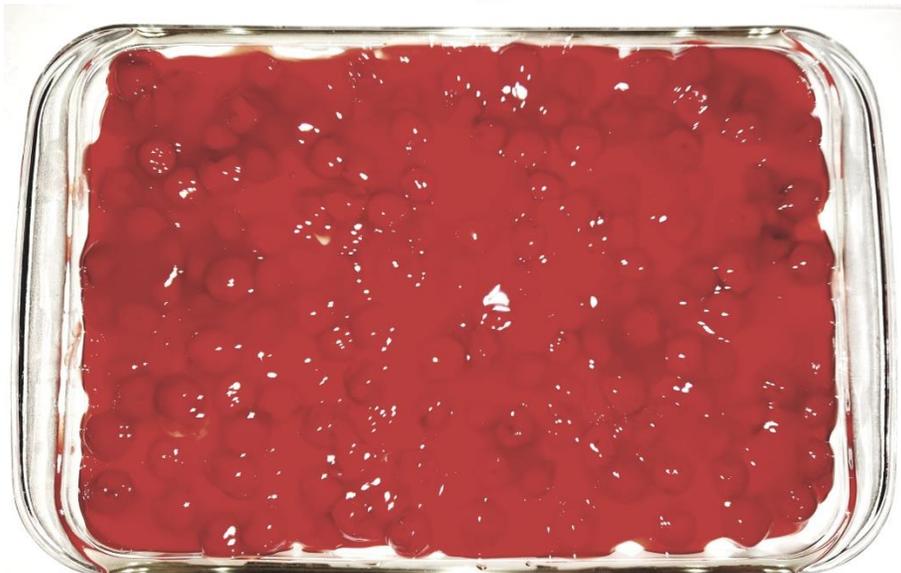
Filling

Mix the contents of 1 pack of Dream Whip per instructions on package in a bowl.

Place two, 8oz. Philadelphia Cream Cheese and ½ box of powdered sugar in a separate bowl. Mix the cream cheese and sugar until very creamy. Then fold in the Dream Whip. Put this mixture on top of the graham cracker crust.

Add 2 (21oz.) cans of Duncan Hines Comstock Original Country Cherry Pie Filling on top of the cream cheese.

Refrigerate overnight. Serves 8-12 .



(This recipe was given to Donna by a dear friend Joey Snyder)

Automotive History

Built in Acton, England, the 1905 Napier won so much acclaim that it helped make the British automotive industry world-famous. The Napier popularized the six-cylinder engine which was to become one of the most widely used types of auto engine.

The two men responsible for the Napier, Montague S. Napier and Selwyn F. Edge, began their automotive careers when Edge bought a used Panhard racer. The car needed major modification, and he took it to Napier, the young owner of a firm that manufactured precision machinery. With the substitution of a wheel for the steering tiller and a new engine developed by Napier, the car ran so well that the two men decided to go into business. Napier was the mechanical expert and Edge was the salesman.

In 1902, only two years after the first Napier was built, Edge drove one of the cars to victory in the prestigious Gordon Bennett Trophy Race. In fact, it was the only entry to finish the grueling run. This race showed the world that the Napier and the British auto industry were ready to make their mark on automotive history. The following year Napier developed a smooth-running efficient six-cylinder engine. Realizing the potential of this engine, he put full effort into promoting it. Perfecting the engine and building public acceptance for it proved to be the company's greatest contribution to the future.

The year of the Napier six was 1905.

Six-cylinder engines were produced in several versions from models of modest horsepower used in passenger cars to the huge 90-horsepower racing engine. With the motto "publicity by competition," Edge made the Napier famous by entering cars in every race possible. To ensure publicity, he flooded the newspapers before every race with grand statements about the Napier. Unlike the ballyhoo of many other car promoters, Edge's statements were factual, based on the efficient design and quality of work performed by Napier and his men. In speed trials and hill-climbs, the Napier six was unbeatable. The 90-horsepower six set record after record in England, Europe and the United States, including the world land speed record of 104.65 mph at Daytona Beach, Florida. That same year, Edge demonstrated the touring virtue of the Napier six in a 466-mile drive from Brighton to Edinburgh. The powerful Napier covered the entire distance in high gear, without the need for shifting. Motorists of the time considered this a big advantage because shifting was often difficult for the average driver.

Impressed by the Napier's accomplishments in competition and by the quality of its craftsmanship, titled and distinguished customers throughout the world bought Napier touring cars and limousines. The Maharajah of Alwar summed up the performance of the Napier six by saying "quite the most superior in reliability, flexibility and easy running."

David Lahr
Charlotte NC Hornets' Nest AACA