



# Paw Prints

VOLUME 2, ISSUE 9

## SPECIAL POINTS OF INTEREST:

- Blast from the Past
- Pontiac Engine 101

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## A Letter from the Editor

Here it is. Autumn. Cooler temperatures. Beautiful colors in the trees. Breezy days and trick or treat; and the end of the 2011 car season.

Soon we'll be putting our GTOs away for a long winters sleep. Or maybe we'll be starting that project we've been plan. Or, like in my case, gathering the parts needed to finish up that project that just keeps going on and on and on despite our best laid plans like my stock 68 YS 400.

Whatever our individual situation, time is drawing short. We only have a couple more times to take our beloved GTOs out. So get them out and enjoy them while we can.

October has at least two great opportunities. The annual Sunbury Rotary Country Cruise-In and Colo's Classic Car Show at the zoo. See inside for more details on meeting places and times for Sunbury and see the flier inside for more information on Colo's Classic Car Show.

One more item on last times out with our cars. Last year Lonnie and Lynn had a nice final cruise to their house in October. It was chilly but the fire was nice and the company was great. Watch email and the club website forums for more information. It was a blast and I hope they continue the tradition this year. I promise I will either bring my GTO

or my GMC Envoy this year!

Before I wrap up this letter, I wanted to apologize to everyone who went to the club meeting one week early because of my misprint in the Paw Prints. I'm very sorry about that and won't let it happen again. Lastly, I wanted to also again thank Stan and Pam Farlow for hosting another great club picnic. Even though we had a scheduling snafu with the Mid Ohio event, a good time was had by everyone who came.

—Kevin



# 2011 Blast from the Past

The 2011 Blast from the Past was the weekend before our big Summer Night Cruise and Indian Uprising. It turns out that it is always scheduled for the fourth Saturday in July. In 2011 it just so happened that July had five Saturdays. Something to remember when we schedule next year's Summer Night Cruise and Indian Uprising.

As usual, the event was held along Sandusky street. The street was closed and it was a classic car heaven all through downtown Delaware. This year, the hardware store we usually pick to park at, was open for business and their parking lot was only open to customers. So we got somewhat lucky and found spots on the corner of Winter St. and Sandusky. Lucky, that is, except for the fact that the bank on the corner kept telling us just how hot it was that day.

It is usually a hot day at the Blast from the Past, but this one was a scorcher. The picture on the right shows the temperature on that bank sign at 100. It got higher than that. Before it was done, it was toggling between 102 and 103!

That kept the crowds down which meant you could cruise along Sandusky longer without too many people being in the middle of the road. That was if you actually got into your car to cruise.

After walking the show and distributing fliers with Doug Boyle, I came back soaked in my own perspiration. Hell, I was hot and sweaty already! So I went for a cruise!

All in all, I cruised 3 times before I had enough and went home to the A/C. I also got out of there just before the annual rain came. I watched that temperature sign drop from 102 to 89 in a matter of 10 minutes and took off. Doug Boyle and Jeff Frazier left much earlier for Westerville and then home for A/C themselves. Others who came along for the heat were, Ron Cozzo, Jim Lowry, Sean and Kim Rinehart and Max Treir.



# Pontiac Engines 101 by Steve Schaeffer

The traditional Pontiac V-8 engine was manufactured from 1955 thru 1981. Currently, the most popular engines were manufactured from 1964 thru 1978. These engines were available in the following cubic inch displacements: 326, 350, 389, 400, 421, 428, and 455. Unlike Chevrolet, there is no big block or small block. The exterior dimensions of all these engines are the same. The only exceptions are the 301 and 265 manufactured from 1977 thru 1981. These are very light duty low deck height blocks. Unless you are dealing with a numbers matching Trans Am avoid the 301 and 265.

The different displacements are the result of different bores and strokes. The deck height on all the standard engines is the same. The 326 thru 400 engines have a 3 inch main bearing diameter. The 421, 428, and 455 engines use a 3.25 diameter main bearing. The rod bearing diameter is the same for 326 thru 455.

Beware of pre-1964 blocks. They are not drilled for a block mounted starter. You cannot use them in a '65 or newer full size or a '64 or newer A-body or Firebird. Also '66 and earlier blocks have 2 freeze plugs on each side. '67 and newer blocks use 3 freeze plugs on each side. Pay attention to motor mount bolt holes. '69 and older engines only have 2 motor mount bosses on each side. '70 thru '76 blocks have 5 motor mount bosses. These blocks will fit all Pontiac chassis. '77 and newer blocks only have 3 bosses on the side of the block and will not fit a GTO.

'70 and newer blocks have the cubic inch displacement cast on the block. The last 2 digits of the displacement are cast in the valley area of the block. Engine identification is stamped on the right front of the block just below the head gasket surface. The date code is on the block by the distributor hole.

Today it is possible to build a traditional Pontiac V-8 without using one piece manufactured by GM. These engines are very popular today. Using an aftermarket block, the most common displacement is 505! Stroker crankshafts are available to 4.5 inches. Aluminum cylinder heads are available with the standard "D" port exhaust or the round port like the Ram Air engines. If your engine already has an aftermarket cam, headers, and intake, you will generally pickup 100 horsepower with a set of these heads. Multiply the intake CFM of the heads times 2 and that is the horsepower potential on a normally aspirated engine. 270 CFM= 540 horsepower.

When building your engine always use the oil pump with the  $\frac{3}{4}$  inch diameter pickup tube. The standard pump only uses a  $\frac{5}{8}$  tube. The performance engine requires the additional volume. The Melling part number for the good 60 pound pump is M54F. If you are using a '72 or later block only use the '76 or newer design oil pan that uses a 5 pronged rear seal. The first design pan for these engines uses a 3 prong seal that blows out; it creates a major oil leak.

'64 and earlier engines use an intake manifold with 6 bolt holes on each side. '65 and newer engines use an intake with 5 bolt holes on each side. Therefore you cannot put a '64 Tri-power on a later engine, and a '65 or '66 will not fit a '64.



# Pontiac Engines 101 Continued

In 1967 Pontiac relocated the valve centerline in the cylinder heads to allow bigger valves and better breathing. You must use pistons with the valve clearance notches in the correct place for the heads you are using. If you are using an aftermarket cam you must convert the heads to an adjustable valve train. Using '67up heads with factory screw in rocker arm studs is easy. Just replace the factory stud that is 7/16 on the bottom and 3/8 on top with aftermarket straight 7/16 studs for a big block Chevy.

If you are using '66 or earlier heads the safest way is to have your machine shop convert the heads to screw in rocker studs and pushrod guide plates. In the old days we just pinned the studs. However if one broke you had to replace the head. You cannot just run the nut down to the shoulder on the stud and torque it like you would do with a stock cam.

Remember the little things. Use the correct pushrod cover for the intake you are using. Early engines have the PCV valve in the rear; late engines moved it to the front. Also some covers have scalloped edges to clear big runners on the intake.

'64 to '68 engines use an 8 bolt water pump and corresponding timing cover. '69 and up engines use an 11 bolt pump and cover. Be certain to use the correct baffles behind the water pump. If your engine is running hot I have had very good luck with Flow Kooler water pumps from the Brassworks. Use the factory clutch fan and shroud.

One thing to check when you get your block back from the machine shop is that all the oil galley plugs have been installed. There is one visible thru the distributor hole in the block. The access is thru a small hole in the back of the block covered with a small freeze plug. If this plug is left out, good bye oil pressure.

The Pontiac engine is a torque monster. Built right it will run strong. Pontiac engines may be more popular to build now than when they were new. There are many Pontiac only engine specialists that advertise in all the magazines. The engine has more aftermarket part support now than it ever did. This engine has great horsepower potential. Build it with quality parts and a quality machine shop. You will have a grin from ear to ear every time you take your GTO for a spin.



# Tiger Bites! - Noteworthy News Bites

- ◆ Colo's Classic Car Show is Sunday, October 9. Watch your email and the website message forums for information on meeting times and places.
- ◆ For the second year in a row, your Paw Prints received a **Chapter Newsletter Certificate of Excellence Award!** Thank you to everyone who help make this newsletter what it is today! Our club was also given a **Bronze Membership Chapter Award!**
- ◆ Don't forget to get signed up at our web site so you can get information on weekly cruise and car shows. You can also get an electronic copy of the Paw Prints all the way back to November 2008. **If you are an Internet Explorer user, update to version 8 to resolve a login issue where it looks as if you cannot login even after registering.**
- ◆ If you need to renew or are thinking of renewing your **GTOAA membership, please do so ASAP** to ensure our club remains a valid GTOAA chapter with all the benefits of that status. There is an application in your Paw Prints below and the GTOAA can now take membership applications on line.



## Welcome New Members!

- ◆ No new member this month.

# For Sale

- ◆ 1969 GTO Conv., everything NEW, Correct WT 69 400 w/ worked 48 heads. Hillard built to RA III/IV specs (Cam) Factory Matador Red/red Int./White (orig. black) top. PHS docs. 4 spd no console, wood wheel, hood tach, All R/A equipment correct and intact. Pete Serio Rebuilt Shifter (orig)., rebuilt Munci 3.55 open rear. PS, drum brakes, Was Dad's car. Asking \$40k. Have \$35k in receipts, did most labor myself and \$10k paint job. Call Ron Landis at 740-215-1742 (cell) or 740-852-1742 (home).
- ◆ 1977 GMC C10 Sierra Heavy Duty ½ Ton Long Bed. 454, TH400, factory air, PS, PB, posi, Black, numbers matching, excellent condition, \$8,500. Sonny Block 740-472-9811.
- ◆ Wanted 1967 GTO Hardtop or Sedan. Original unrestored car with factory paint, interior and drive-train. Looking for a survivor type car. Prefer HO 4 speed. Will consider all others. Call Andre Spanjol 1-440-647-6686 mornings or please leave a message.
- ◆ Pontiac Grand Prix 2-Door Hdtp For Sale: 1980 Pontiac Grand Prix 2-door Hdtp with 3.8 Liter V-6 and auto trans. In family since new. The body, interior, and power train are in very good to excellent condition. Only 39,400 original miles. \$3,500 For more info contact Wayne King at 614-633-8494 or, E-mail: wcking@netzero.net
- ◆ For Sale! A TON of miscellaneous 1964–1969 GTO parts and some Pontiac Sales Literature for many years. See the club web site, in the Forum section in the For Sale Forum for the entire list and contact information (<http://www.gtoaco.com/forum/index.php>) CALL 440 254-4642 or email me ([patandgreg2011@hotmail.com](mailto:patandgreg2011@hotmail.com))

*Send in your items for sale to your Paw Prints Newsletter Editor (pictures welcome).  
Remember, ads are FREE to GTOACO Members!*



# Meeting Minutes, September 14, 2011

President Jim Evans called the meeting to order. Those in attendance were: Steve Schaeffer, Doug & Toni Boyle, Bill & Karen Sigg, Shawn & Kim Rinehart, Bill & Twila Hartley, Pam & Stan Farlow, Kevin Russo, Ron Cozzo, Jim Lowry, Lonnie McLaughlin, Joe Block, Mike Shockley, Ron & Donna Landis.

**Treasurers Report:** Jim gave the PNC Bank report. Mike gave the Treasurer's report. Any question can be directed to Jim and Mike.

**Club Picnic:** September 17th 1:00 pm at Pam and Stan Farlows. Bring your lawn chairs and a covered dish. The weather looks to be good so drive your car for the photo shoot.

**GTOAA Letter:** The Electric City GTO sent the GTOAA a letter about how they are disappointed and disheartened by the management and operation of the national organization. This has been the same complaint for years. The GTOAA is upping its membership to 55% for next year.

**Fall Cruise:** September 25th, 2011. Meet at Flying J's RTE 158 before 10:00AM. Leaving at 10:00AM. Cruise to Bill and Twila Hartley for a cookout then on to a fellow that Bill knows to check out some of his cars in his collection. Last stop will be for ice cream. Contact Lonnie to confirm at 614-327-8885.

**Cruises:** Mike Shockley, Jim Kaho and the Farlows attended the Ox Roast in West Jefferson. Congrats to Jim and Stan. Top 50 award. Congrats to Mike Shockley and the purchase of a GTO. The club has named his car "WICKED EVIL".

Jim brought in the plaque for Haydocy for their Sponsorship of the summer cruise in.

Continuous prayers to Jack & Leah Ferron, Joe & Renda Bennett

Meeting Adjourned: Motion made by Lonnie McLaughlin, 2nd by Ron Cozzo

Submitted by Donna Landis, Secretary

*Meetings held  
the 2nd  
Wednesday  
each month at  
Haydocy  
Automotive on  
W. Broad St.  
Columbus, OH*



# Calendar of Events

October 12, 2011

**Regular Meeting 7pm @ Haydocy Automotive**

Back to the old eating-place. To eat before the meeting be at Rooster's anytime after 5:00PM. Roosters is located in the parking lot in front of the strip mall across the street from Jeg's.

***I'm REALLY sorry everyone for the misprint on the meeting last month!***

October 2, 2011

**2011 Sunbury Rotary Country Cruise-In.**

Meet at CVS at 7:30am Breakfast at Sunbury Grille at 8am.

October 9, 2011

**Colo's Classic Car Show at the Columbus Zoo**

Look in email and on the club website in the message forum section for information on meeting times and places.

## OCTOBER 2011

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6	7	8
<i>Sunbury Rotary Country Cruise-in</i>						
9	10	11	12	13	14	15
<i>Colo's Classic Car Show</i>			<i>Club Meeting 7pm@Haydocy</i>			
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					



# 4<sup>th</sup> Annual COLO'S CLASSIC CAR SHOW 2011



October 9, 2011, 12 p.m. to 4 p.m.



**\$15**  
pre-registration  
**\$20**  
at the gate

Pre-register at  
[columbuszoo.org](http://columbuszoo.org)  
On-site  
registration from  
8 a.m. to 12 p.m.

**BIKES WELCOME!**  
Best Bike award sponsored by



HOSTED BY "BOOTS" FROM AUTOSMARTSRADIO.COM



**Win a set of Cooper tires!**

Courtesy of **Bob Sumner Tire & Service**

• **50/50 Raffle**

**Awards at 3 p.m.**

- Colo's Choice - Trophy
- Boot's Choice - Trophy
- Hanna's Choice - Trophy
- People's Choice - Trophy
- NEW** Best Bike - Trophy
- Best Truck - Trophy
- 40 plaques for top ranked cars
- 10 plaques for 78 and above

**Raffle prizes donated by:**

- Gordon Foods Marketplace
- Grainger
- NAPA
- Interstate Battery
- Englefield Oil
- Cheryl's Cookies
- Safari Golf Club
- Zoombezi Bay

- The Right Stuff
- Sears
- Inskeep Printing



Proceeds benefit conservation and education programs at the Columbus Zoo and Aquarium

[www.columbuszoo.org](http://www.columbuszoo.org) ■ (614) 724-3570 ■ 9990 Riverside Drive, Powell, Ohio 43065 (enter off Riverside Drive GATE 13)

# GTOACO Club Officers

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**GTOAA Information**

Your chapter is an affiliated chapter with the GTO Association of America. You can join the National GTO organization, the GTOAA & receive the Golden Quill Award Winning publication, *The Legend*.

To Join complete the form below and mail in, or join online at [www.gtoaa.org](http://www.gtoaa.org)



**Membership Application**

Date: \_\_\_\_\_

Mem #: \_\_\_\_\_

Name: \_\_\_\_\_

Phone: \_\_\_\_\_

Address: \_\_\_\_\_

Email: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

**GTO Ownership is not a requirement of membership to the GTOAA**

**GTO OWNERSHIP**

Year \_\_\_\_\_ Body Style \_\_\_\_\_ Engine \_\_\_\_\_

Year \_\_\_\_\_ Body Style \_\_\_\_\_ Engine \_\_\_\_\_

Year \_\_\_\_\_ Body Style \_\_\_\_\_ Engine \_\_\_\_\_

*I agree that, if elected to membership, I will conform to all rules of the Association and conduct myself in the manner that promotes the goals and purposes of the Organization.*

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

**DUES:**  
\$35.00/year for members in the USA, \$40.00USD/year for Canadian members, and \$50.00USD/year for all other international members. \$5.00 for associate memberships in the same family name (includes membership card, decal, and membership listing). There is a \$2.00 bank processing fee for applications paid by credit card.

CHECK / MO # \_\_\_\_\_

Mastercard / Visa Card # \_\_\_\_\_ Exp # \_\_\_\_\_

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

Make Check/Money order payable to GTOAA:

Mail signed Application to: GTOAA, PO BOX 455, Timnath, CO 80547

# GTOACO Sponsors



## **Haydocy Automotive**

3985 West Broad St  
Columbus Oh 43228  
(614) 279-8880

## **Absolute Cleaning Services**

Cleaning Blinds, Fire Damage, Ceiling cleaning & service restoration

Kevin Landis, President

112 Chandler Ave  
London Ohio 43140  
740-490-7185

[klandis@absolutecleaner.com](mailto:klandis@absolutecleaner.com)

## **Inskeep Brothers, Inc.**

Printers

Jeffrey K Inskeep

3152 E Dublin-Granville Rd  
Columbus Ohio 43231  
614-898-6620

## **DJ Auto Parts, Inc.**

Dan Gregory, II  
11283 Main St  
Stoutsville Ohio 43154  
740-474-4614  
Fax 740-474-2314

Rust Free Parts & Cars Bought & Sold

## **Capital City Appliance Service**

Jerry Brownfield  
2830-D Fisher Rd  
Columbus Ohio 43204  
614-308-9028  
Fax 614-308-9034  
[ccas2830@aol.com](mailto:ccas2830@aol.com)



SEPTEMBER 2011

2010 & 2011 GTOA Newsletter Certificate of Excellence Recipient

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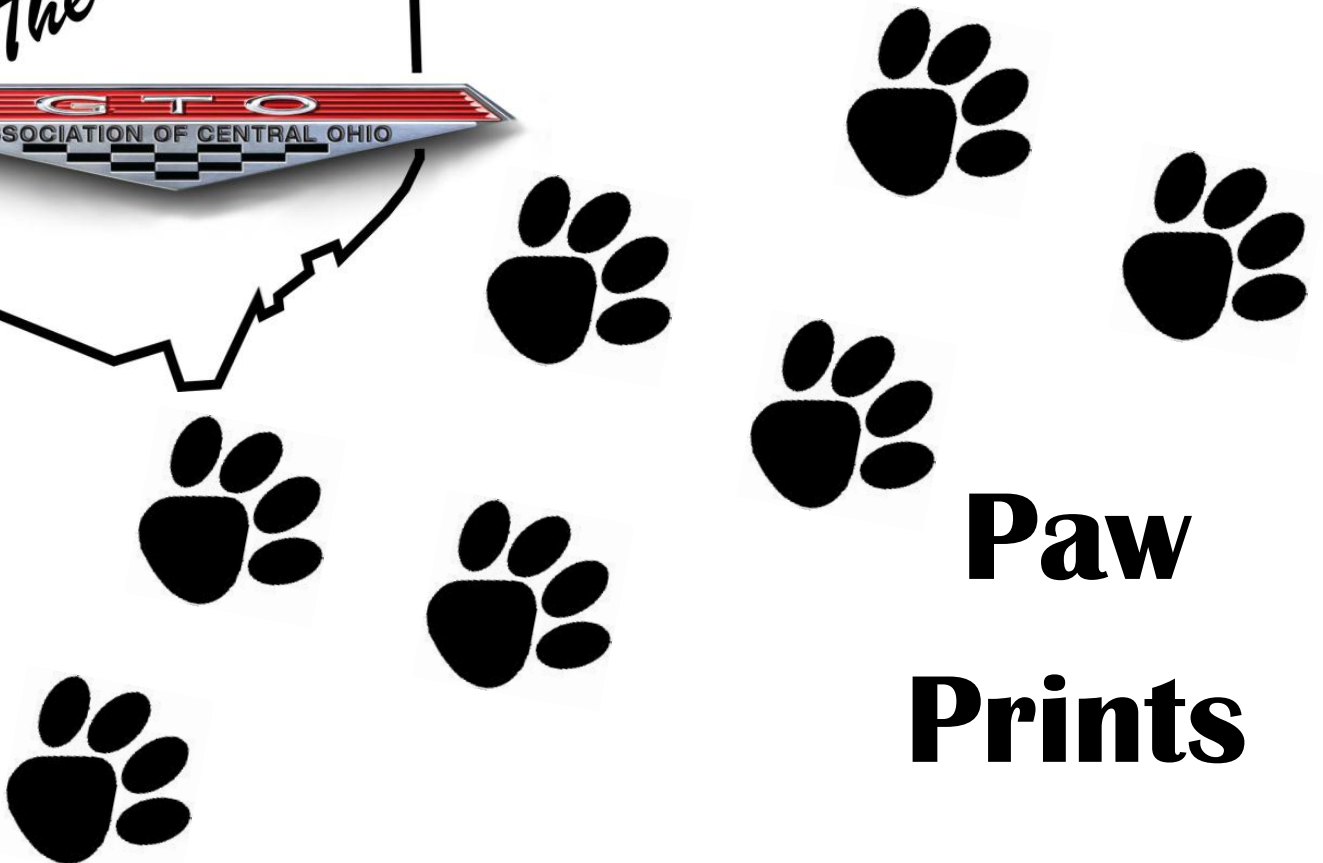
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