



Paw Prints

VOLUME 10 ISSUE 1

Letter from the Editor - Kevin Russo

SPECIAL POINTS OF INTEREST:

- Super T-10 4 Speed Tranny

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Welcome to 2019!! Well, almost anyway, since I am writing this on the day after Christmas, which is still in 2018 and those of you who receive the publication electronically, and maybe even the postal mail delivery, will receive it before 2019, it's the January 2019 edition.

This month note that there are no meeting minutes because the club did not hold a December meeting. There will be a January club meeting and the agenda for that meeting is in this month's edition.

Also note the change in DATE AND VENUE for our 2019 Swap Meet. It will be held on Sunday, March 10 at the

Franklin County Fairgrounds in Hilliard, Ohio. An updated version of the flyer is also in this month's edition.

As both Stan and I mentioned last month, please consider joining the GTOAA and letting a club officer know so we can track it. GTOAA membership has many benefits including the Legend Magazine, the private Facebook group for members only (there is one that is for the general public and one specifically for members) and many other benefits. Additionally, in order to register your car and participate in the 2019 GTOAA Nationals in Lawrenceburg, Indiana, you must be a GTOAA member So why not join now?

Lastly, in this month's edition, is a great tech piece on by Steve Schaeffer and a new Blast from the Past. Check them out!

I apologize for not updating the Who's Working on What section. The holidays sort of got in the way of getting those updates on those projects. Send your new projects or status updates to your projects and I'll get them in that section for next month.

I hope to see you at the January meeting so until then Happy New Year have fun and stay safe!

—Kevin





's Letter

Happy New Year! Hopefully everyone survived the holidays and is looking forward to another good year. Our club did well in 2018. All of our events went very well and we made a few dollars. We also had some good times along the way. We gained some members. We have many cars in the restoration process. But the best thing is the number of members helping each other with these restorations. When people are willing to help each other out, I think this is about as good as it gets for a car club.

Looking forward to the 2019, our swap meet planning is well along. We have a great venue at the Franklin County Fair Grounds and a lot of interest from vendors. This will be our kickoff for the year so please plan on coming out and joining in with the group. As always we will need people to set up and open the event. This year we will need to pay a little more attention to cleaning up afterwards so if you can stay late to help it would be much appreciated. Rob and Ron have been doing a good job of promoting this event and interest seems to be high.

January is always a significant month because of all the big car auctions. The price trend for collector cars will be set this month and whether we plan on selling a car or not it 's always fun to see how the auctions go. I know there are some strange things that go on at the auctions and we can 't tell the true condition of the cars without being there (or even if we are there) but the price trend is clear by the end of the month---and aside from the trend it 's fun to watch everything sell. One of the sad things to me is the number of collections that are selling. It seems obvious that as estates are settled the kids are more interested in money than cars.

Last month I wrote about the importance of our relationship with GTOAA. Please don 't forget that message and consider joining GTOAA. Equally important is that if you have some activities for the club please bring them up. Rob Wilson and I have started work on a club survey to see if we can find a couple of ways to improve participation in club activities. You will hear more about this over the next month.

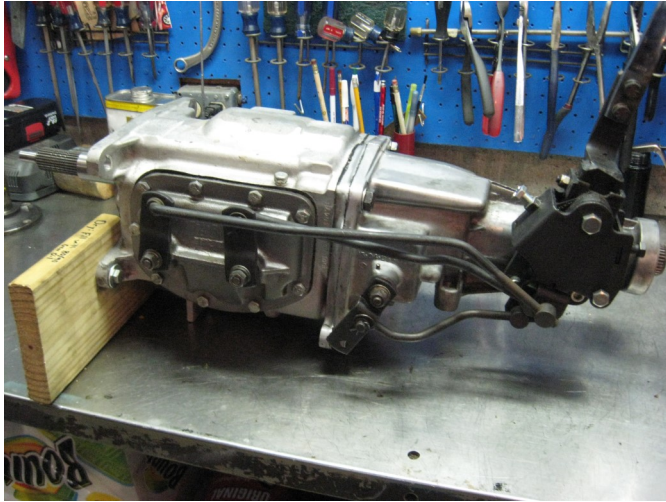
Remember to always be safe as you are working on your car and enjoy the winter.

Stan Farlow

614-230-4529



The Super T-10 4 Speed Trans. by Steve Schaeffer



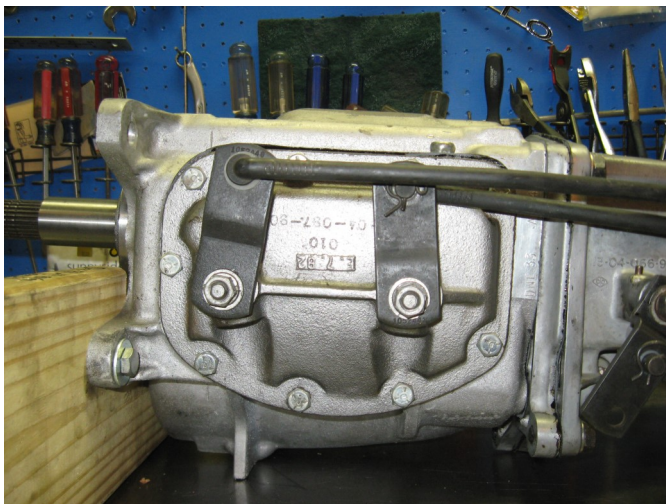
Borg Warner was an independent manufacturer of automatic and manual transmissions. In the early 1950's they had a heavy duty 3 speed transmission, the T-85. When GM needed a performance 4 speed transmission for the '57 Corvette they redesigned the T-85 into the T-10 four speed transmission. There wasn't room in the case for 4 forward speeds and reverse without weakening the unit by going to smaller gears. That is why reverse gear is mounted in the tail housing.

The patents are held by General Motors but the transmission was built by Borg Warner. The original T-10 was very popular and the design was also used by Ford, American Motors, and Studebaker. When the 4 on the floor craze took off, GM started building their own version in 1963, the Muncie 4 speed. The design of the T-10 and the Muncie are the same.

When the Muscle Car craze almost died due to the gasoline shortage and the insurance companies, GM stopped production of the Muncie 4 speed and went back to Borg Warner.

Borg Warner redesigned the T-10 transmission into the Super T-10 4 speed. This is a heavy duty muscle car transmission. GM used the Super T-10 in production cars from '74 thru '82. The rights were then sold to Doug Nash. The Super T-10 is still in production and is currently manufactured by Richmond Gear. Depending on ratio Jeg's sells them for \$1,727.99 to \$1,823.99.

The Super T-10 is substantially beefed up from the original T-10 transmission. The input gear has 26 splines instead of 10 splines. The more splines a shaft has the stronger it is. That is why the Ford 9 inch rear end with 31 spline axles is so popular. The output shaft went from 27 splines to 32 splines and is a 1/4 inch larger in diameter. This raises torque capacity and resistance to twist considerably. The early transmission uses the same driveshaft yoke as a turbo 350. The Super T-10 uses the same massive driveshaft yoke as a turbo 400.



The Super T-10 4 Speed Trans. by Steve Schaeffer

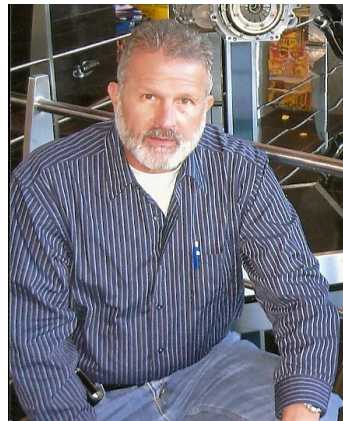
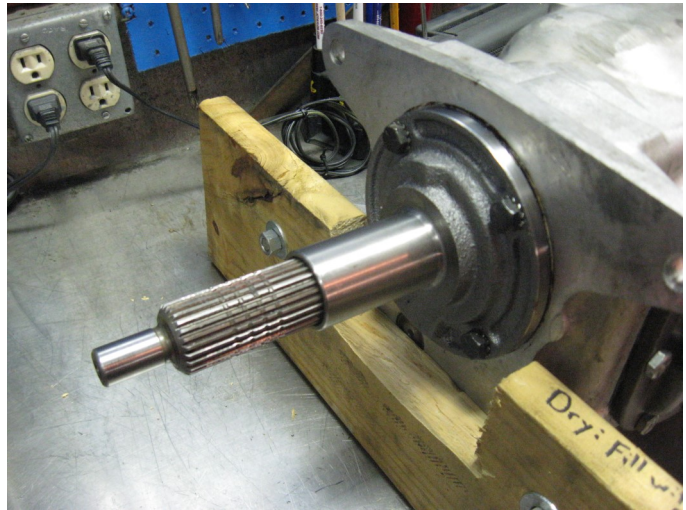
I am a mechanic and not an engineer, but 3rd gear is also larger in diameter than the original T-10 or the Muncie and has to be stronger. The gears are wide cut with coarse pitch for greater capacity and are made from nickel chrome moly alloy, SAE 8620. The Super T-10 uses a full size maximum capacity ball bearing on both the input and output shafts. The Muncie uses a thinner lighter duty front bearing. Also the side cover is made of cast iron rather than aluminum for strength.

The Borg Warner transmissions can be identified by their 9 bolt side cover with a curved bottom. The Muncie uses a 7 bolt side cover. The T-10, Super T-10, and the Muncie all have 2 shift levers in the side cover and 1 in the tail housing. The Saginaw GM 4 speed transmission has all 3 shift levers in the side cover. It is a very light duty transmission and is really only safe with a 283 Chevy V-8 or an overhead cam Pontiac 6 cylinder.

Richmond Gear lists three different ratio sets for their new Super T-10's.

1st;	2.64	2.43	2.88
2nd;	1.75	1.61	1.91
3rd	1.34	1.23	1.33
4th	1.00	1.00	1.00

The unit with the 2.88 1st gear would work instead of a 5 speed overdrive. You could run a 3.08 rear end ratio with it. With a 27 inch tall tire 65 mph would only be 2,500 rpm. For normal street performance use I would run the 2.64 1st gear unit instead of the Muncie M-20 wide ratio with a 3.31/ 3.55 rear end ratio. The 2.43 1st gear unit is a close ratio transmission that would replace the Muncie M-21. It would work fine with a 3.70 or lower geared rear end.



Tiger Bites! - Noteworthy News Bites

- ◆ The 2019 Swap Meet **NOW will be Sunday, March 10, 2019**. Due to unexpected events the venue has changed to the Franklin County Fairgrounds. See the updated flyer in this Paw Prints.
- ◆ The GTOACO Holiday Party will take place on February 16, 2019 at Lynne and Lonnie McLaughlin's. Stay tuned here for more information on what to bring and directions. Please RSVP to Lonnie @ londart@aol.com.
- ◆ If you need to renew or are thinking of renewing your **GTOAA membership, please do so** 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. **If you plan to go to 2019 Nationals you must be a GTOAA Member. Please let Stan Farlow know when you join and get your member number in order to keep our roster updated!**

Welcome New Members!

- ◆ No new members this month

Who's Working on What

- ◆ Ron Cozzo mated the completed chassis for his 66 LeMans with the body and is installing the Vintage Air AC and prepping the firewall.
- ◆ Lonnie McLaughlin's 65 GTO convertible has the body on the chassis and the drive train installed.
- ◆ Mike Berichon is finished getting another garage built and is now setting up his shop.

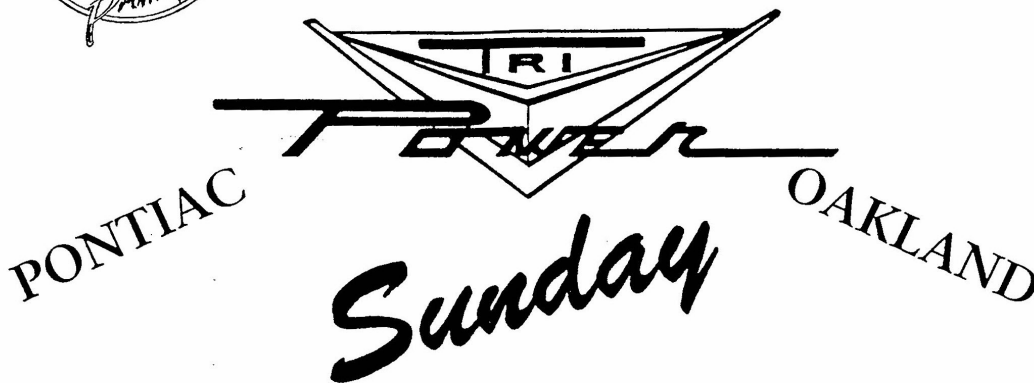
Blast from the Past!

by Ron Cozzo

This Blast from the Past is from the August 1993 Paw Prints. It's not the first Norwalk show, but very early. Some things never changed, like Arnie Beswick. Some things have definitely changed, like this one day event is now a three + day event. And notice, we had two Pontiac on-ly magazines.



LEE-Schubert
SALES & SERVICE, INC.
presents



Norwalk Raceway Park Norwalk, Ohio • Sunday September 26th. 1993

ALL PONTIAC & OAKLAND - DRAG RACE, CAR SHOW AND SWAP MEET!

▼ Pontiac Division's concept and show cars!
Arnie "Farmer" Beswick and "The Tameless Tiger"
Bill Blair and his '63 Tempest Super Duty 421 factory racer!
Andy Syrkin and his "Legend" '66 GTO drag car!
The Pontiac Historic Services '68 Ram Air II Firebird racer!
The Lee-Schubert Formula Firehawk Firebirds!
Richard Lentinello, editor *High Performance Pontiac* and the "GTO" wagon!
Bruce "The 421 Club" Fulper
Geo. Ellis, editor *Pontiac Enthusiast* magazine!
Super Duty Promotions "Quick-8 Shootout" ▼

Racers: I.H.R.A. bracket rules apply, all cars must be Pontiac powered or run the factory installed engine, run Norwalk Raceway's Saturday program and stay right at the track!
Car show: 34 judged and 2 "display only" classes, trophies/plaques awards to the top 3 places in class, classes may be combined as the participation level warrants it.
Swap meet: professionally operated by Champion Auto Events, 13896 Aquilla Rd. Burton, OH 44021 Saturday set-up, security provided, 15X30 spaces on grass!
Camping: NO hook-ups, but come early for Sat. evenings BBQ & "bench-race" session!

Contact:

*Super Duty Promotions • PO Box 714 Norwalk, OH 44857-0714
or call (419) 663-PETE (7383) • Mon.-Fri. evenings 7:00 to 11:00*

Meeting Minutes December 2018



The club did not hold a December 2018 meeting therefore there are no minutes to present.

*Meetings held
the 2nd
Wednesday
each month*

**ATT: MEMBERS!!!! If you see your name listed below you owe dues!!!!
Please get your dues to Lonnie McLaughlin at 5808 Tarton Circle North Dublin, OH
43017!!**

*If you owe dues for after July 2018, you owe \$10 for 2018.
Then in January, ALL DUES FOR ALL MEMBVERS ARE DUE BY JANUARY
15, 2019. Dues for 2019 are \$20 (\$30 for postal mailed news-
letter delivery)*



Meeting Agenda - January 9, 2019

- Treasurer's Report - Lonnie McLaughlin
- Nominations of Directors and election process
- Holiday Party February 16 at Lonnie's house
- Prevent Blindness donation amount last year's donation was \$1500
- 2019 All Pontiac swap meet on March 10 at Franklin County Fairgrounds
 - Work Schedule (if we don't clean up we pay for clean up)
 - Breakfast?
- The club calendar on the web site is updated for all 2019 activities. Comments are welcome
- Next Meeting Location?
- Open Discussion
- Motion for Adjournment

Calendar of Events

January 9, 2019

**Regular Club Meeting 7pm @ Hickory House 550 Officenter Pl Gahanna, OH 43230 .
RSVP to Stan Farlow at skfarlow@aol.com if you plan to come. Dinner will be at 5:15pm
before the meeting in the same room.**

January 1, 2019



New Year's Day! Happy New Year!

January 21, 2019

Martin Luther King Jr Day



JANUARY 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1 	2	3	4	5
6	7	8	9 <i>Club Meeting 7pm@Hickory House</i>	10	11	12
13	14	15	16	17	18	19
20	21  Martin Luther King Jr. Day	22	23	24	25	26
27	28	29	30	31		

For Sale

- ◆ DJ GTO Parts! Now your one stop shopping place for used and NEW GTO parts. If you know the part number, great, otherwise just let them know what it is you need! See Dan Gregory Jr. (or call 614-563-0877 or email info@djgtoparts.com) for more information and options for taking delivery of your parts or visit their website at <http://djgtoparts.com/>. GTOACO members receive a discount!



- ◆ *For Sale—400 Pontiac motor. New build about 500 mi. Comp Cam and accessories, aluminum .intake, water pump and valve covers asking \$1500.00 Harry Mullins 614 795 2310*
- ◆ *I will rebuild your Muncie '64 to '74, Borg Warner T-10 '57 to '64, or GM Super T-10 4 speed transmission for \$400.00 including the following new parts that are necessary to freshen up a worn high mileage unit.*

Synchronizer Rings, Case Bearings, all small parts, spacers, snap rings, needle bearings, thrust washers, strut keys and springs, new counter shaft, gaskets, bushings, and seals.

Shop supplies are additional as are new and used gears, cases, side covers, tail housings, synchronizer assemblies, shift forks, front bearing retainers, etc.

Steve Schaeffer, Retired A.S.E. certified mechanic, Lancaster, Ohio, 740-215-0126.



Send in your items for sale to your Paw Prints Newsletter Editor (pictures welcome).

Remember, ads are FREE to GTOACO Members!



www.gtoaco.com

**APPLICATION FOR MEMBERSHIP
THE GTO ASSOCIATION OF CENTRAL OHIO**

Name _____ Date _____

Address _____ City _____ ST _____ Zip _____

Home Phone _____ Cell Phone _____

Occupation _____ E-mail Address _____

Membership Dues are \$20/yr for email Paw Prints delivery, or \$30/yr for postal delivery.

RECEIVE OUR MONTHLY NEWSLETTER, THE PAW PRINTS (Check One)

BY EMAIL (COLOR PDF) \$20
OR POSTAL MAIL (BLACK AND WHITE) \$30

MAKE CHECKS PAYABLE TO: THE GTO ASSOCIATION OF CENTRAL OHIO

SEND TO: Lonnie McLaughlin
5808 Tarton Circle North
Dublin, OH 43017
614-327-8885
londart@aol.com

ARE YOU A MEMBER OF THE GTO ASSOCIATION OF AMERICA # _____ Date Expires _____

SPOUSE'S NAME _____

CHILDREN _____

YEAR, COLOR AND STYLE OF GTO (s) OR PONTIAC (s) CURRENTLY OWNED

WHAT ACTIVITIES WOULD YOU BE INTERESTED IN? _____

OPTIONAL:

WRITE A SHORT STORY ABOUT YOURSELF, FAMILY, OCCUPATION, HOBBIES AND HOW YOU GOT INTERESTED IN GTO'S. IF YOU HAVE ANY PICTURES OF YOUR CAR SEND THOSE ALSO. THIS INFORMATION WILL BE USED IN A COLUMN IN THE PAW PRINTS FEATURING MEMBERS. IT IS A GOOD WAY FOR US TO BECOME AQUAINTED WITH EACH OTHER.



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



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

NEW DATE AND LOCATION

ALL PONTIAC INDOOR SWAP MEET

March 10, 2019

Franklin County Fairgrounds
4100 Columbia St, Hilliard, OH 43026



Vendor Set-Up 7:00 A.M. - 9:00 A.M.
Open to Public 9:00 A.M. - 2:00 P.M.

10' X 10' spaces - \$15.00 each
\$2.00 general admission

For information contact:

Rob Wilson (614) 519-1019
email: ro.wilson@att.net

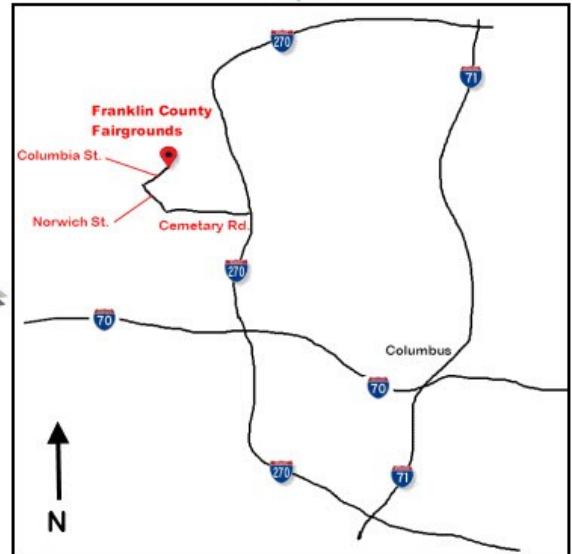
Or Write to:

GTO Association of Central Ohio
1810 Uppervalley Dr.
West Jefferson, OH 43162



www.gtoaco.com

GTOACO and Franklin County Agricultural Society are not responsible for any damage or injury.



NEW VENUE and NEW DATE!!



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skfarlow@aol.com

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burgboy73@gmail.com

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londart@aol.com

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4print@inskeepbrothers.com
<http://www.inskeepbrothers.com/>



DJ GTO Parts, Inc.

Rust Free Parts & Cars Bought & Sold
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740-474-4614
info@djgtoparts.com
<http://djgtoparts.com/>



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ccas2830@aol.com
<http://www.capitalcityapplianceservice.com/>

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JANUARY 2019

A Publication of the GTO Association of Central Ohio

614-879-9923

West Jefferson, OH 43162

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