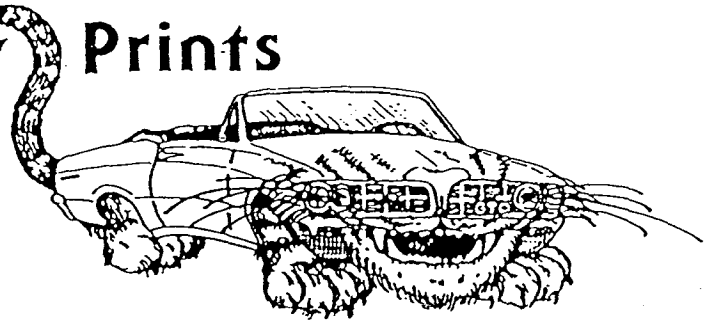


# Paw Prints



A Publication of the GTO Association of Central Ohio

APRIL 1995

TO ALL MY GTO FRIENDS:

FIRST OF ALL I WOULD LIKE TO THANK FRANK AND SUE BLOCK FOR SETTING UP THE TRIP TO MARIETTA. THAY TOOK A LOT OF TIME TO SET THIS TRIP UP SO WE NEED TO GIVE THEM ALL OUR SUPPORT. THE TRIP WILL TAKE PLACE MAY 20TH. IT SOUNDS LIKE A GOOD TIME AND THE CLUB NEEDS TO DO MORE THINGS LIKE THIS.

ALSO IF YOU DIDN'T COME TO THE MARCH MEETING YOU MISSED OUT ON A GREAT PRESENTATION GIVEN BY STEVE SCHAFFER ON HOW TO REBUILD A CARBERATOR. STEVE SPENDS A LOT OF TIME PUTTING HIS PRESENTATIONS TOGETHER AND WE NEED TO COME TO THE MEETINGS TO SUPPORT HIM. AT THE APRIL MEETING HE WILL BE SHOWING US HOW TO TAKE A TRANSMISSION APART. BE SURE TO MAKE THE MEETING IF YOU CAN. APRIL 12TH DENNIS PONTIAC 7 PM.

I WOULD ALSO LIKE TO THANK STEVE FOR SENDING ALL THE TECH TIPS.

THANKS TO FRANK AND STEVE FOR HELPING THE CLUB TO BECOME A BETTER ORGANIZATION TO BELONG TO.

THE SPRING SHOW HAS BEEN CHANGED FROM JUNE 11TH TO JUNE 18TH SO WE DON'T CONFLICT WITH A SHOW IN MICHIGAN. WE HAVE A LOT OF PEOPLE FROM THERE WHO LIKE TO COME TO OUR SHOW SO THIS WILL HELP US ALL. WHEN YOU GET A CALL TO HELP AT THE SPRING SHOW PLEASE GIVE ALL THE SUPPORT THAT YOU HAVE GIVEN IN THE PAST YEARS. IF IT WASN'T FOR YOU, THE CLUB MEMBERS, THE SHOW WOULD NOT GO ON. THANKS FOR YOU HELP.

WE ARE GOING TO BE BUSY THIS SUMMER WITH ALL THE THINGS PLANNED. PLEASE CALL ME IF YOU HAVE ANY QUESTIONS ABOUT THE CLUB OR ANYTHING WE HAVE PLANNED. 614-927-5302

I GUSS I HAVE TAKEN UP ENOUGH SPACE SO SEE YOU AT THE MEETING.

SO LONG FOR NOW



March 7, 1995

Report on Swap Meet for 1995

Gate Receipts	\$316.00
Vendor Spaces	\$855.00
Total Receipts	\$1,171.00
Expenses	
Dispatch Advertising	93.60
Hemmings Advertising	9.80
Donuts	14.63
Total Expenses to date	\$118.03
Net Profit to date	1,052.97

1995'

PRESIDENT: JIM EVANS

V. PRESIDENT: JEFF INSKEEP

SECRETARY: NANCY WHALEY

TREASURER: RICHARD WHALEY

DIRECTOR'S: KEVIN JOHNSTON  
TWO YEAR DONNA LANDIS

DIRECTOR: STEVE SALERNO  
ONE YEAR

APRIL 12TH REGULAR MEETING  
DENNIS PONTIAC  
2900 MORSE RD.  
COLUMBUS, OHIO  
7 PM  
REBUILD TRANSMISSION

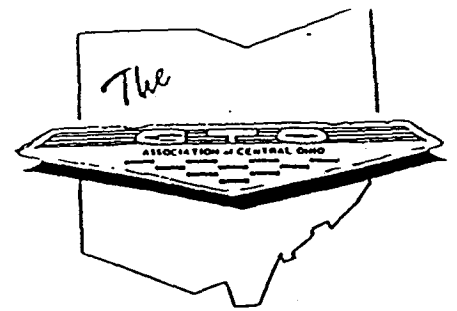
MAY 10TH REGULAR MEETING  
DENNIS PONTIAC  
2900 MORSE RD.  
COLUMBUS, OHIO  
7 PM.

MAY 20TH MARIETTA TRIP  
MEET BOB EVANS  
RESTAURANT  
I-70 & BRICE RD.  
8 AM TO EAT BREATFAST  
LEAVE 9AM TO ZANESVILLE

JUNE 14TH REGULAR MEETING  
DENNIS PONTIAC  
2900 MORSE RD.  
COLUMBUS, OHIO  
7 PM

JUNE 18TH SPRING SHOW  
DENNIS PONTIAC  
2900 MORSE RD.  
COLUMBUS, OHIO

## GTO Family Tour



When: May 20, 1995

Where: Marietta, Ohio "The Start of it All"

We will meet at Bob Evans Restaurant, I-70 East and Brice Rd. at 8:00 a.m. for breakfast (if you wish). At 9:00 sharp we will leave Bob Evans heading East on I-70 to Zanesville, then South on route 60 to Marietta. Arriving about 11:30 a.m. at the Travel Host Inn, 700 Pike St. We have reserved 15 rooms, 5 rooms with double beds at \$42.10 plus tax, 10 rooms with a king size bed at \$41.61 plus tax, GTO special parking in rear parking lot area. Cone markers and safety tape, will be put into place, to set aside our parking area. At this time we can get settled in our rooms, and break for lunch. The rest of the afternoon is ours to do whatever we want, meeting back at the motel about 4:30 p.m.

Marietta has many activity options, we can pick and chose whichever activities best suits our interest.

### Host Suggestions

1. **Campus Martius: Museum of the Northwest Territory--601 Second St.--614-373-3750.** An Ohio Historical Society property on the site of Marietta's original fortification, the museum contains unique artifacts from the beginnings of the Northwest Territory. The Rufus Putnam House and the Ohio Company of Land Associates Office are preserved. March-April, Wed.-Sun.; May-Sept., Daily; Oct.-Nov., Wed.-Sun. Closed holidays.
2. **Ohio River Museum--601 Front St.--614-373-3717.** Emphasizes the importance of the role played by the Ohio River in the development of the nation. The history of the river is told through displays and a life-sized diorama. An award winning presentation "Fire on the Water" is shown in the museum auditorium. Many riverboat models and artifacts are on display. Visitors can also go aboard the W.P. SNYDER, Jr. open Apr.-Oct. Closed holidays.
3. **Fenton Art Glass--420 Caroline Ave.; Williamstown, WV 26187--301-375-7772.** World famous glass! A free tour offers visitors the opportunity to watch master craftsmen at work, blowing and hand-forming glass into vases, lamps and bowls. The Fenton museum and movie, the factory outlet and gift shop are open year round; free tours weekdays except national holidays and the annual July factory vacation. Movie and museum \$1 adults; \$.50 children.

4. **Historic Harmar Bridge Co.**--Across Muskingum River, Butler to Gilman St. Links downtown Marietta with Historic Harmar Village on the west side of the Muskingum River. Now a pedestrian bridge, it served as a major rail link from 1873 until 1962. The bridge is on its original piers, however, the superstructure has been destroyed by floods four times.

5:00 Dinner at the historic LaFayette hotel 101 Front St. Dinner prices \$8.00 plus.

7:00 We will meet at the Showboat "Becky Thatcher" 237 Front St show ticket price \$12.00 per person. After the show perhaps a piece of strawberry pie or social time at our motel which features Damions Restaurant and Lounge.

Sunday May 21st breakfast with your family and friends, you decide.

10:00 Back to our Motel for checkout and prepare to leave for Blennerhassett Island.

11:00 Blennerhassett Museum

1:00 A Sternwheeler ride to Blennerhassett Island.

Rate Schedule

	<u>Adult</u>	<u>Children (age 6 to 12)</u>
Museum Tour	\$1.00	\$0.50
Boat Ride	\$4.00	\$3.00
Mansion Tour	\$2.00	\$1.00
Wagon Ride	\$3.00	\$2.00

\* Free for children under 6

You may leave the Island and head home when your time so allows.

\* For further information please call Frank Block Day-614-294-3200 or Evening and weekend at 614-882-1773.

GTOACO Monthly Meeting March 8, 1995

Prez Jim Evans called meeting to order. We had a great turn out.

Swap Meet was a great success. Kevin had no complaints. Net Profit was \$1.52.97.

Stouffers show. Nancy has responded to the Arthritis Foundation and will be getting more information about us registering 15 cars for the show. If you are interested please contact Nancy so when information comes in she can put you down.

Jim Evans reported that the GTOAA Nationals is getting closer. Registration dead line is May 31. If you need more information contact Jim.

Spring Show. Jim reported he has talked to Aaron and there is no problem with us adding 3 more firebird classes and the trophies.

The date has been changed to June 18 because we don't want to go against the Royal Pontiac Nationals which is June 11.

Kevin Johnston will do the vendors, Jim will call Fred Dowdy and see if he will do the music again for us. He was great last year.

Discussion was held on doing a 50/50 drawing the day of show.

Bill Hartley will be getting the judges. If you want to volunteer please call him. Also for judging assistants.

Nancy will try and get advertising in Hemmings, High Performance Pontiac, Dispatch, Let's Go Cruisin, The Legend and POCI.

Dave Benson brought up that we should place ad in Dispatch Antique and Classic section about our meeting on Sunday before the meeting. Steve made motion for next three months placing ad in Dispatch about the meeting. Dave Benson seconded. The ad will read something like the following. GTO Owners Meeting \_\_\_\_\_ at Dennis Pontiac 7:00 p.m. Wed. for more info call Jim Evans 927-5302. Spring Show at Dennis Pontiac June 18. for all Pontiacs.

Frank Block made a great presentation on the GTO Family Tour set for May 20 to Marietta Oh. Frank and Sue have already made a run thru this. You need to call Frank Block 294-3200 or 882-1773 before the next meeting or ASAP so he knows who and how many rooms to book and get tickets for outing. Following persons have made commitment. Ron & Donna Landis (maybe Kevin) Bill Hartley, Steve Salerno, Frank & Sue Block, Kevin & Monetta Johnston, Diane & Jim Evans, Jeff & Lynn Inskeep.

You don't have to take a GTO to go along and have a great time.

All of you who have complained that we don't do anything as a club here's your chance.

Steve Schaffer gave a great presentation for Standing Stone Bank. If you open an account you will receive a 64 GTO Bank. That just goes to show that the GTO is now a classic car. (As if we didn't know that).

Steve Schaffer showed us how to tear down a carb. He was doing great but we had a little trouble with the camera man (Kevin Johnston) he keep directing Steve. But Steve didn't seem to mind and we all learned something. Steve will be showing us how to rebuild a transmission next month. So everyone show up and watch Dan Gregory carry this transmission up the stairs to the meeting room. Just Kidding. But do be sure to come. We have an expert to show us how its done.

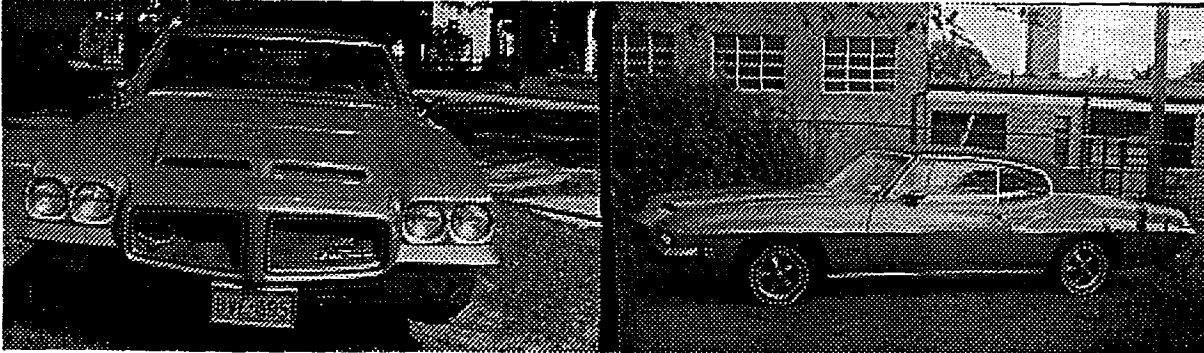
Nancy Whaley has contacted people for food for June 18.  
They are Dave & Joyce Benjamin out of Lancaster Oh. They were recommended  
by Barry Wear. They will be serving the following:

Cheddar Burgers \$2.75 made with fresh ground round  
TX Pork Tenderloin \$3.00 hugh sandwich  
Footlong coney loaded \$2.00  
Root Beer Floats \$2.00  
Pepsi, Lemonade, Punch, Coffee .75, 1.50 and 1.75  
Brat is we want them \$2.75

They will have coffee and donuts for in morning. They will stay until noone  
else comes to window. They have received awards for best prices, cleanest  
trailer, best food prices. They have not changed prices in 4 years.  
They will donate a percentage back to the club.

Joyce is a car cruiser they had a 73 Corvette that they showed and she had  
a 67 GTO out of high school that she stated just screamed.  
They under stand that we don't need the hassle of wondering if will run out  
of food, have enough help etc. She guaranteed that this will not happen.  
They started this business because their daughter was in dentist school and  
they needed the extra income. She was booking up fast so Nancy went ahead  
and scheduled her for the show.

## WELCOME NEW MEMBERS



I AM 44 YEARS OLD. I GRADUATED FROM HIGH SCHOOL IN 1969, (ONE REASON FOR THE CAR I NOW OWN.) I BOUGHT A 1964 RED GTO CONVERTIBLE IN THE FALL OF 1969 FOR \$400.00 IT HAD A BLOWN MOTOR AND THIS WAS ALL A DEALER WOULD GIVE THE MAN I BOUGHT IT FROM. I SOLD THIS CAR IN 1972 AND BOUGHT AN OLIVE-GREEN 1968 CONVERTIBLE. I OWNED THIS CAR FOR A OUT 2 YEARS AND TRADED IT OFF. I OWNED 2 CORVETTES AFTER THAT (1962 & 1968). THEY WERE GREAT CARS, BUT I WOULD RATHER OWN A GTO. THE GTO'S I OWNED WERE MORE DEPENDABLE AND LESS EXPENSIVE TO WORK ON.

I OWN MY OWN BUSINESS AND HAVE BEEN IN BUSINESS SINCE 1973. I HAVE DUMP TRUCKS AND A BACKHOE & DOZER. I DO LIGHT EXCAVATION AND DRIVEWAY WORK. MY FAMILY AND I LIKE CAMPING, COOKOUTS, AND OF COURSE CAR SHOWS.

HOPE TO MEET AND TALK SHOP WITH FELLOW GTO OWNERS AND MEMBERS.

James A. Waltz

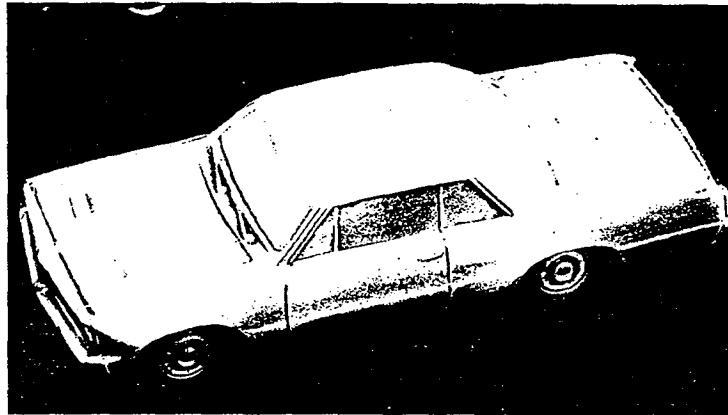
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SINGLE, DIVORCED, LOAFING SINCE I RETIRED.  
BOUGHT THE CAR IN 75/76 FROM A USED CAR DEALER. HAD 86,000 MILES WHEN WE BOUGHT IT, NOW HAS 116,000. OVERHAULED IT AT 106,000. HAD BODY WORK DONE IN 92. WAS DRIVEN IN ALL WEATHER TILL THEN.  
I LIKE THE CAR VERY MUCH EXCEPT FOR THE G IN GTO. THEY SAY GAS MILEAGE 8 & 9 AROUND TOWN BUT I CAN GET 14-15 ON TRIPS WITH AC ON, AT MODERATE SPEEDS.  
HOPE TO SEE YOUR PLACE SOMETIME AFTER MAY WHEN I GET IT OUT.

Thanks,  
Garry Booher & Family

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Fri. 9:00-6:00; Sat. 9:00-12:00

**DRIVE THRU OPENS:**

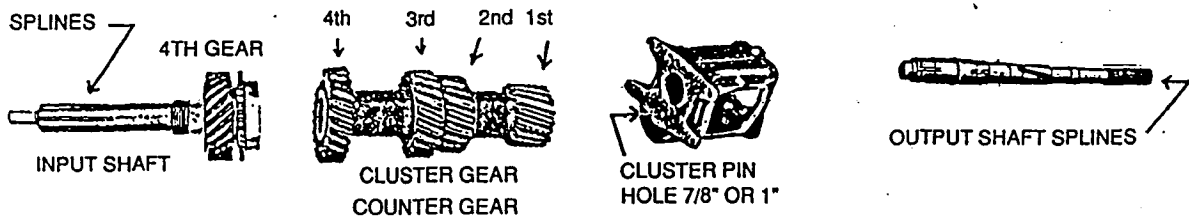
8:00 a.m. weekdays

**MEMBER FDIC**



# Muncie ID Chart

SERIES	YEARS MADE	INPUT SPLINES	# RINGS ON INPUT	CLUSTER PIN SIZE	INPUT TOOTH COUNT	4TH CLUSTER TOOTH COUNT	OUTPUT SPLINES
M20 WIDE RATIO	63-65	10	NONE	7/8"	24	29	27
M20 WIDE RATIO	66-71	10	2	1"	21	25	27
M20 WIDE RATIO	71-74	26	2	1"	21	25	32
M21 CLOSE RATIO	63-65	1	1	7/8"	26	27	27
M21 CLOSE RATIO	66-71	10	1	1"	26	27	27
M21 CLOSE RATIO	71-74	26	1	1"	26	27	32
M22 CLOSE RATIO	65-69	10	NONE	1"	26	27	27
M22 CLOSE RATIO	70-74	26	NONE	1"	26	27	32



## Muncie Production Date Codes

Code: found on 1967-74 transmissions

Location: passenger side of main case

Example: P9S29B.

P=Muncie 9=1969 S=November 29=day of the month

B=2:20 close ratio

A=Jan. B=Feb. C=March D=April E=May H=June

K=July M=Aug. P=Sept. R=Oct. S=Nov. T=Dec.

Ratio codes: A=2:52 wide ratio M20

B=2:20 close ratio M21

C=2:20 close ratio M22

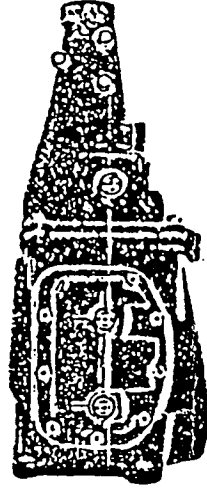
# Transmission ID



## SAGINAW

7 bolt side cover  
all 3 shift levers in side cover  
main case and tail housing are cast iron

holes may not be tapped



## T-10

9 bolt side cover with round bottom edge  
may have aluminum or cast iron case, some  
may be 1/2 cast and 1/2 aluminum.  
Super T-10 have large out put shaft (400 turbo)



## Muncie

7 bolt side cover  
early styles have 7/8" counter shaft pin (63-65)  
late styles have 1" counter shaft pin (66-74)  
case and tail housing are aluminum

## Manual Transmissions

### MANUAL TRANSMISSIONS

#### DIAGNOSIS

##### Jumping out of High Gear

- Misalignment of transmission case or clutch housing.
- Worn pilot bearing in crankshaft.
- Bent transmission shaft.
- Worn high speed sliding gear.
- Worn teeth in clutch shaft.
- Insufficient spring tension on shifter rail plunger.
- Bent or loose shifter fork.
- End-play in clutch shaft.
- Gears not engaging completely.
- Loose or worn bearings on clutch shaft or mainshaft.

##### Sticking in High Gear

- Clutch not releasing fully.
- Burred or battered teeth on clutch shaft.
- Burred or battered transmission mainshaft.
- Frozen synchronizing clutch.
- Stuck shifter rail plunger.
- Gearshift lever twisting and binding shifter rail.
- Battered teeth on high speed sliding gear or on sleeve.
- Lack of lubrication.
- Improper lubrication.
- Corroded transmission parts.
- Defective mainshaft pilot bearing.

##### Jumping out of Second Gear

- Insufficient spring tension on shifter rail plunger.
- Bent or loose shifter fork.
- Gears not engaging completely.
- End-play in transmission mainshaft.
- Loose transmission gear bearing.
- Defective mainshaft pilot bearing.
- Bent transmission shaft.
- Worn teeth on second speed sliding gear or sleeve.
- Loose or worn bearings on transmission mainshaft.
- End-play in countershaft.

##### Sticking in Second Gear

- Clutch not releasing fully.

##### 2. Burred or battered teeth on sliding sleeve.

- Burred or battered transmission mainshaft.
- Frozen synchronizing clutch.
- Stuck shifter rail plunger.
- Gearshift lever twisting and binding shifter rail.
- Lack of lubrication.
- Second speed transmission gear bearings locked will give same effect as gears stuck in second.
- Improper lubrication.
- Corroded transmission parts.

##### Jumping out of Low Gear

- Gears not engaging completely
- Bent or loose shifter fork.
- End-play in transmission mainshaft.
- End-play countershaft.
- Loose or worn bearings on transmission mainshaft.
- Loose or worn bearings in countershaft.
- Defective mainshaft pilot bearing.

##### Sticking in Low Gear

- Clutch not releasing fully.
- Burred or battered transmission mainshaft.
- Stuck shifter rail plunger.
- Gearshift lever twisting and binding shifter rail.
- Lack of lubrication.
- Improper lubrication.
- Corroded transmission parts.

##### Jumping out of Reverse Gear

- Insufficient spring tension on shifter rail plunger.
- Bent or loose shifter fork.
- Badly worn gear teeth.
- Gears not engaging completely.
- End-play in transmission mainshaft.
- Idler gear bushings loose or worn.
- Loose or worn bearings on transmission mainshaft.
- Defective mainshaft pilot bearing.

##### Sticking in Reverse Gear

- Clutch not releasing fully.
- Burred or battered transmission mainshaft.
- Stuck shifter rail plunger.
- Gearshift lever twisting and binding shifter rail.
- Lack of lubrication.
- Improper lubrication.
- Corroded transmission parts.

##### Failure of Gears to Synchronize

- Binding pilot bearing on mainshaft, will synchronize in high gear only.
- Clutch not releasing fully.
- Detent springs weak or broken.
- Weak or broken springs under balls in sliding gear sleeve.
- Binding bearing on clutch shaft.
- Binding countershaft.
- Binding pilot bearing in crankshaft.
- Badly worn gear teeth.
- Scored or worn cones.
- Improper lubrication.
- Constant mesh gear not turning freely on transmission mainshaft. Will synchronize in that gear only.

##### Gears Spinning When Shifting into Gear from Neutral

- Clutch not releasing fully.
- In some cases an extremely light lubricant in transmission will cause gears to continue to spin for a short time after clutch is released.
- Binding pilot bearing in crankshaft.

#### CAUTION

Care must be exercised during the disassembly and assembly of manual transmission due to the usage of metric nuts and bolts, the proper wrenches and sockets should be used to avoid damage to the transmission and fasteners. Do not attempt to interchange metric threaded fasteners with U.S. Fine or Standard fasteners as damage can result.

# USED

- 69-72 8-track complete & reconditioned - \$250.00  
69-72 A.M. radio - \$20.00  
69-72 rally clock - \$20.00  
hoods hinges - \$20.00 pr.  
68-72 conv.rear 1/4 glass - \$50.00 pr.  
71 auto GTO quadrajet 7041 - \$75.00  
14"x7" honeycomb - \$30.00  
69 grilles - \$50.00  
LH 68 grill w/emblem - \$25.00  
69 front marker lights - \$10.00 ea.  
67 400 (xw) w/A.F.B (72 Kmi.) - \$250.00  
69 350" - \$100.00  
cruise cont.transducer L.N. - \$50.00  
75 YS 400 block -----\$50.00  
68-70 Lemans rust free hood -----50.00  
drive shaft -----\$25.00

## ASSORTED:

- intake manifolds
- ~~exhaust~~ manifolds
- timing covers
- trim & knobs
- pulleys & flex plates

# N.O.S

- 70-71 spoiler w/trunk rod - \$200.00  
honey comb rings - \$100.00  
70-71 centers - \$80.00  
70-72 fan shroud - 40.00  
70-81 firebird "GM " - door skins  
red "GM" floor mats (front) - \$50.00 pr.  
reconditiond hood tach - 150.00  
64-65/68-72 outside door handles - \$50.00 pr.  
65 park lamp lenses - \$25.00pr.  
66-67 park lamp lense bezels \$25.00pr.  
70 exaust splitters - \$100.00 pr.  
64-68 "6.5" emblems - \$40.00 pr.  
66 Bonneville grill emblems - \$25.00  
70 Bonneville grill emblems - \$20.00  
69 "pontiac" grill emblems - \$20.00
- 69 rear floor mat set (green) - \$50.00  
79-81 turbo wheel CTR caps - \$75.00  
{set of four }  
Tri-power screens,foam ~~FILTERS~~ & "California"  
top screens - \$75.00

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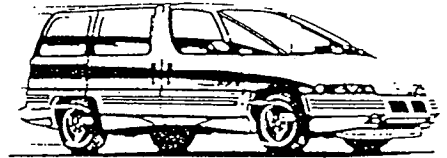
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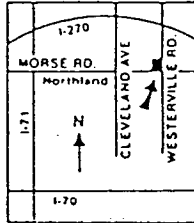


Mr. Goodwrench



471-2900

2900 MORSE RD.



Paw Prints

Jim Evans  
13791 Cable Road  
Pataskala, OH 43062  
614/927-5302

JIM and DIANE EVANS  
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PATASKALA, OH. 43062