



MINNESOTA'S '64 - '87 CHEVELLE AND EL CAMINO CLUB

President: Stan Shinker
Webmaster: John Delke

Vice President: Chris Reid
Treasurer: Bryan Flattem

It is now March, and according to our club's official Cars Apart Counter there is about 80 days left depending on when you read this. That means 11 weekends before the local cruises start. Have you started? Have you already finished? Have you even seen your car in the past few months? If you're fortunate enough to just wait out the time until you can take it for the first spin of the year, I bet that week of warm weather this past month really got you itching. Spring will be here soon so go get going on your car, or start dreaming about clear roads and warm sun.



February's club meeting was held at the Ellingson Classic Car Museum in Rogers, MN. This museum has several dozen old and collectible cars ranging from the 1926 Ford or 1928



Chevrolet to a 2006 Z06 Corvette and a 5,128 mile Delorean.

Ellingson's also collects and displays vintage automotive signs, cameras, parts, and other vintage collectibles. They even had the first ZZ430 limited edition crate engine sold to the public on display (#3).



Nearly every car on display was for sale, and most had detailed information about them and of course, a price. The club meeting was held in Clarabelle's Lounge which is a '50s style diner.

www.ellingsoncarmuseum.com



TECH TIP:

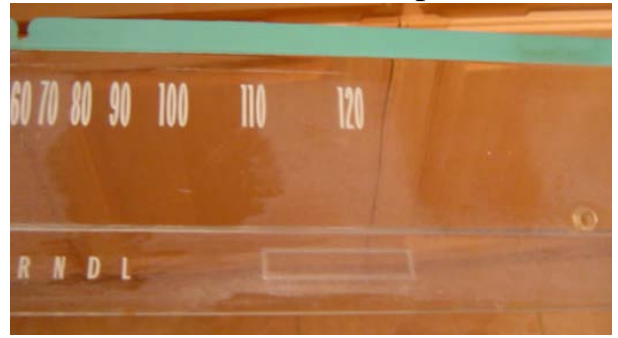
I picked up a '67 Chevelle dash cluster from Derek for free at the Bowtie Brunch. It was pretty dirty and looked bad, but I had a plan. I had heard you can polish plastic with toothpaste and I wanted to give it a shot. Since I didn't



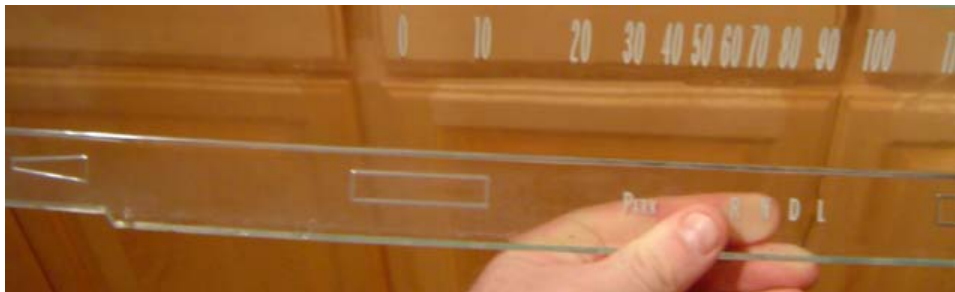
have anything invested in it, this was the perfect opportunity. First, I took the cluster apart and rinsed the various parts off by hand with simple water. The lens was much cloudier than I had expected, but that meant a better test. I grabbed the tube of Colgate Total toothpaste and put a pea sized dollop on the lens. With a little water to help spread it out, I used my fingertip and rubbed the lens back and forth in a small area to see what would happen. After rinsing the lens off, I noticed where there was less water it had worked a little better. I put another drop of paste on and tried it dry. Much



better results. Thinking bigger is better; I chucked a small buffing wheel in my cordless drill and used the toothpaste as a buffing compound. Very nice results, but it left a wavy design in the plastic when seen at certain angles. Last up was an afterthought really. I grabbed a Magic Eraser pad sitting by the sink. All you need is to moisten the pad and use a little pressure. Holy cow! That worked the best and left no markings afterward. Once the lens was cleaned, I reassembled the cluster and decided that even though the bezel was past being useful, I gave it a quick shot of silver paint just to make it look decent.



Time spent: maybe 45 minutes. Cost of a new lens: \$29.95, though I spent \$0.10 worth of toothpaste. If I had a '67 and a new bezel, I would not hesitate to put it in a driver quality car.



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'69 Chevelle SS 396

If our competition had one like it we'd have a lot more competition.

The beguiling thing about this SS 396 Sport Coupe is that it gives you all the comforts you expect in a family car. Soft and spacious seats. New Astra Ventilation that circulates

outside air through the interior without wind noise. Full door-glass styling. But beneath these amenities—it's pure agility. With special flat-cornering suspension astride

wider 14 x 7-in. wheels and wide-oval white-lettered tires. Power disc brakes. Dual chrome-tipped exhausts. And under its twin-domed hood—up to 350 Turbo-Jet hp. It used to be that

only two-car families got driving versatility like this. But now you can get it all in one quick-sized SS 396.

CHEVROLET

Putting you first keeps us first

NEW PRODUCT: Air Flow Research Titan XR manifold

Composite intake manifolds have been around for a while, but this one is different. AFR unveiled this manifold at SEMA this year. First, it's for a non-LS Small Block Chevy engine. Second, you can replace the upper plenum section for different configurations while still keeping your oil and coolant areas sealed. Currently, they offer a dual plane (4.7" height), single plane "strip" (4.5" height), and single plane "race" (5.5" height) models priced about \$600 each. The lower base is bolted to the heads like normal, while the upper is sealed using rubber port seals like in modern engines. The manifold is reported to be 10 pounds lighter and runs about 30 degrees cooler than an aluminum manifold. They also have bosses for nitrous and dual distributor hold-downs, though when changing the upper plenum, the distributor can remain in place. AFR reports a 15hp gain in power and reports that the manifold is ready to run right out of the box. Look for real world testing to be done and published soon.



GM Exercise in Engineering:



This Impala Hauls

It's an LT4 powered Impala SS wagon that put the sport in utility!

LT4 Engine Assembly

Bore/Stroke	4.00/3.48	Gross Power	410 HP @ 5800 RPM
Compression Ratio	10.8:1	Gross Torque	390 Lb-Ft @ 4000 RPM

Technical Features: LT4 V8 engine assembly (P/N 12534776) containing:

- 4-bolt main block
- Undercut and rolled fillet nodular iron crankshaft
- PM connecting rods
- Flat top aluminum pistons
- 8mm roller timing chain set
- Aluminum heads w/ 2.00/1.55 hollow stem light weight valves
- 1.6 roller rocker arms

To complete the swap the following components were utilized:

- LT4 aluminum inlet manifold
- 3/8-inch single roller timing chain set
- HOT Hydraulic roller camshaft (0.525/0.525 lift, 218/228 degrees @ 0.050 duration)
- Light weight (10LB) PMGR LT1 starter
- 4 -Quart oil pan (P/N 12528916)

Transmission 1996 Camaro LT1 T-56 six-speed manual

Rear Axle 8.5-inch rear axle assembly
-Limited slip differential
-3.08:1 ring and pinion assembly

Brakes Front - 12X1 Rear - disc w/internal expanding drum parking brake

Suspension Impala SS

Wheels Impala aluminum 17X 8.5

Tires BFG Comp T/A 255/50-17

HOW-TO: POR-15

If you can paint using a paintbrush, you can use POR-15. It's a very simple process of cleaning, prepping, and coating metal to prevent rust from ever taking hold. Sold in various sized containers, it can be applied using a brush or sprayed on. POR-15 bonds to the metal and creates a hard barrier that won't let moisture through. Once applied, it can be top coated and finished with paint, insulation materials, or left as applied.

The sampler pack (\$20) gives you all the basics you need to try it out. Included are 2 8oz bottles of their "marine clean" cleaner and "prep and ready" metal prep solutions, a 4oz can of coating (enough to cover 6 square feet with 2 coats), 1 foam and 1 bristle brush, and a pair of latex gloves. 2 of these kits was enough to completely prep and cover my floor pan from firewall to rear seat support with material left over. Since I am covering it with insulation, I only used 1 coat.



Original sound deadener removed and vacuumed

The process is extremely simple: clean the area with the supplied cleaner, dry off and apply the metal prep solution which will etch the metal and leave a zinc phosphate coating, then apply the topcoat. A little goes a long way, and the gloves are necessary since if it gets on your skin it will be there for several days.



Prepped floor with coating on passenger side

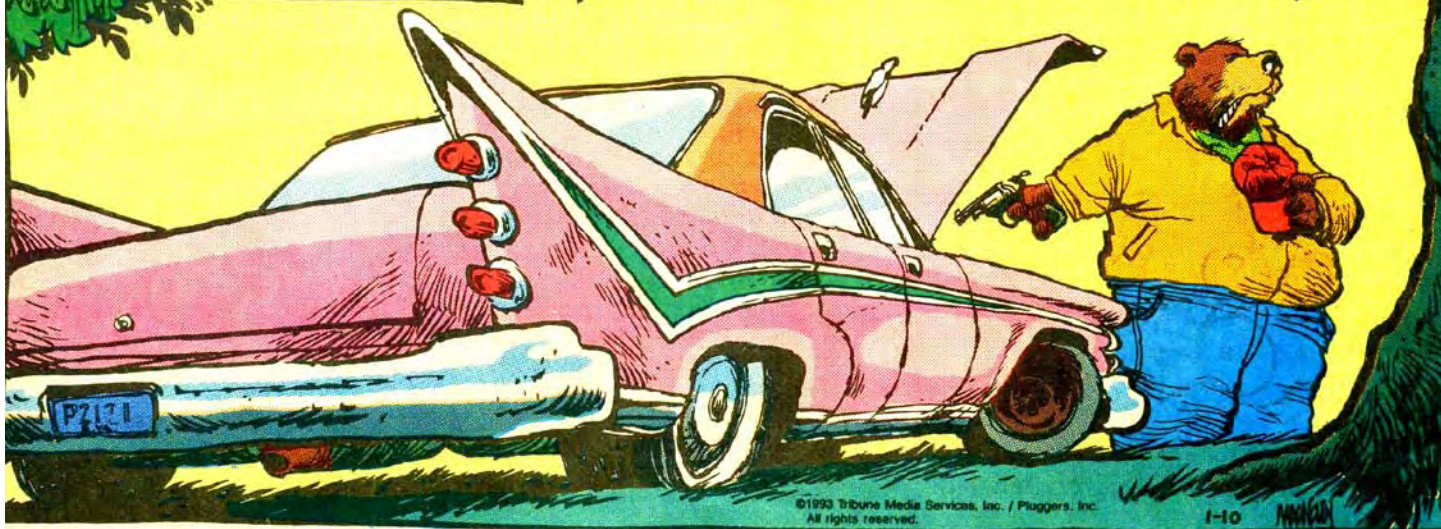
I did stay away from seat belt and mounting bolt holes, though you could clean them up with a tap once it is cured. POR-15 can also span small holes by using tape on the backside and painting over. Remove the tape after it dries.



Hushmat insulation installed over POR-15 on passenger side

POR-15 also makes several filler puttys, engine enamels and topcoats, rust preventative paint, and fuel system and tank treatments. Some products like the rust preventative coating paint are available in several sizes ranging from 4oz to 1 gallon cans. www.POR-15.com

A plugger knows that sometimes a car goes bad, and can't be trusted.



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I-10



Presents

Auto Mania

Sponsored by



7501 Highway 65 NE
Fridley, MN. 55432

Sunday August 7th.
10AM – 3PM

Open to all years and models of cars and trucks

Top 21 Show

Trophies awarded by participant votes.

Music provided by "Tunes to Go"

Admission \$10.00 (admits car, driver and 1 passenger) Spectators \$2.00 - under 12 – FREE.

Dear Automotive Friends... set aside Sunday August 7th for AUTO MANIA at Friendly Chevrolet in Fridley.

The Northstar Chevelle Club and the Minnesota Street Machine Association are joining forces to host AUTO MANIA at Friendly Chevrolet in Fridley, MN. It's a car show and more! Open to ALL years and makes of cars and trucks, plus a vendor row, food booths, a DJ spinning tunes, and many trophies. We are asking your business to be a part of this event, in whatever way that you feel possible. From small donations, or door prizes, to participating on show day, we really would like to hear from you.

Goodie Bags: We have the bags already, so we just need some items to put in them – like business cards, pens, flyers, small samples, coupons, whatever you feel you could possibly donate.

Door Prizes: We would appreciate any items that you would care to donate for a door prize. Your business will be listed on a sign board and also announced by our DJ during the show. All items need to be received by July 15th.

VENDOR ROW: This will be an area for auto-related businesses, in a featured area. Our DJ will announce your business and location throughout the day and a 30 – 60 second advertisement. Let us know what size booth you need. **\$50**

TROPHY SPONSOR: We will present a trophy with your businesses name on it. (example: Kiss's Corvette Restoration Choice). Your business will be listed on a message board as a trophy sponsor, your business will be announced by our DJ, and listed on 2000 AUTO MANIA flyers that will be distributed prior to our show. A vendor space is included. **\$100**

SPECIAL AWARD SPONSOR: We will put your business name on a trophy in a category of your choice (Best Custom, Rat Rod, Interior, Engine, Race Car, etc.) You will also receive all of the features of the packages listed above. **\$150**

PREMIER SPONSOR: Includes all of the above, a vendor space if needed, a trophy sponsored by your business, a special award trophy, your business announced by our DJ during the show, plus a link to your business for one year on both club web sites, your business name and logo on all car show flyers. Payment needed by March 15th – to print event flyers. **\$250**

SHOW LOCATION: Friendly Chevrolet 7501 Hwy 65 NE, Fridley, MN, Sunday August 7th,
Questions /Reserve Sponsorship: Mike Smith newsletter@MSMA.net or 612-597-8984.

Business Name _____ Your Name _____
Sponsor Level _____ Phone _____ Email _____
Goodie Bag / Door Prizes: to Corvette Specialties 2558 Highway 10 NE, Mounds View, MN. 55112
Sponsor Check: Mail / Payable to Auto Mania, c/o MSMA PO Box 490682 Blaine, MN. 55449

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